FINAL
GROUNDWATER REPORT
AREA IV RADIOLOGICAL STUDY
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

EPA Contract Number: EP-S7-05-05
Task Order Number: 0038

Prepared for:

U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

July 24, 2012

HydroGeoLogic, Inc

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EXECUTIVE SUMMARY

The U.S. Environmental Protection Agency was tasked to conduct two phases of groundwater sampling events from wells located in Energy Technology Engineering Center Area IV, the Northern Buffer Zone, and at off-site locations. The two groundwater sampling events represented a dry (summer) period and a wet (winter) period. Phase I sampling was performed in August and September 2010. Phase II sampling was performed in March and April 2011.

The primary project objective of the Phase I and Phase II groundwater sampling events was to provide data to characterize groundwater radiological conditions and compare results to recent Boeing Company environmental data collected within the Area IV Study Area.

During both sampling events groundwater samples were collected from wells screened in the near surface (shallow) aquifer and wells screened in the deep aquifer within the fractured bedrock. The total depth of the wells sampled ranged from 8.5 to 700 feet below ground surface. Wells screened in the shallow aquifer typically have ten feet of screen. Wells screened within the deep aquifer are typically open-hole and do not contain a well casing screen. The open-hole interval ranged from 1 foot to 618 feet in length. Ten Flexible Liner Underground Technologies™ multi-level wells were also sampled.

Three sampling methods were utilized during the sampling events; low-flow, well volume approach, and multi-level wells. Bladder pumps were used to perform low-flow sampling which was conducted in shallow wells with short screens (10 feet or less in length) and water column lengths equal to or greater than 3 feet. The well volume sampling approach was used to sample the deep open-hole wells which contained dedicated pumps. Flexible Liner Underground Technologies™ multi-level wells were sampled but only one port from each location was selected for sampling.

Two sets of radionuclides of concern were established for the sampling event: Priority 1 and Priority 2 analytes. Priority 1 analyses were performed on all groundwater samples. Priority 2 analyses (in addition to Priority 1 analyses) were performed on a select number of groundwater samples.

Priority 1 analyses consisted of gamma spec, gross alpha, gross beta, strontium-90, tritium, and isotopic uranium. Priority 2 analyses consisted of americium-241, carbon-14, curium-243, curium-244, curium-245, curium-246, iodine-129, neptunium-237, plutonium-238, plutonium-239, plutonium-240, plutonium-242, radium-226 and technetium-99.

The analytical results from both phases of sampling identified gross beta, uranium-233/234, uranium-238, strontium-90, and tritium at concentrations exceeding the maximum contaminant levels. The gross alpha, gross beta, uranium-233/234, and uranium-238 concentrations appear to be attributed to suspended solids; thus, do not reflect actual exceedances of the maximum contaminant levels. Strontium-90 was detected at concentrations exceeding the maximum contaminant level in the groundwater sample collected from well RD-98 immediately downgradient of the Radioactive Material Handling Facility and in the vicinity of a former

septic tank system. Tritium was detected at concentrations exceeding the maximum contaminant level in three wells immediately north of the former Building 4010. In general, recently collected Boeing Company groundwater data correlated closely to the U.S. Environmental Protection Agency data with a few minor exceptions relating to gross alpha and gross beta analyses, and method uncertainty.

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LIST OF ACRONYMS AND ABBREVIATIONS

Ag PRG	agricultural preliminary remediation goal
Am	americium
Ba	barium
bgs	below ground surface
Blaine Tech	Blaine Technologies
BL Hall	BL Hall Incorporated
C	carbon
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
Cm	curium
Co	cobalt
Cs	cesium
DO	dissolved oxygen
DOE	Department of Energy
EC	electrical conductivity
ETEC	Energy Technology Engineering Center
FLUTe™	Flexible Liner Underground Technologies
FSP	Field Sampling Plan
H-3	tritium
HGL	HydroGeoLogic, Inc.
HSA	Historical Site Assessment
I	iodine
IDW	investigation-derived waste
keV	kilo electron volt
MCL	maximum contaminant level
MDC	minimum detectable concentration
mL/min	milliliter per minute
mrem/y	millirems per year
MWH	Montgomery Watson Harza
Na	sodium
NASA	National Aeronautics and Space Administration

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

NBZ	Northern Buffer Zone
Np	neptunium
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PPE	personal protective equipment
Pu	plutonium
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
Ra	radium
RMHF	Radioactive Materials Handling Facility
ROC	radionuclides of concern
SOP	standard operating procedure
Sr	strontium
SSFL	Santa Susana Field Laboratory
TAL	TestAmerica Laboratories
Tc	technetium
TPU	total propagated uncertainty
U	uranium
USEPA	U.S. Environmental Protection Agency
Z_{DUP}	duplicate Z-score comparison

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1.0 INTRODUCTION

HydroGeoLogic, Inc. (HGL) was tasked by the U.S. Environmental Protection Agency (USEPA) to conduct an extensive radiological characterization study of the Santa Susana Field Laboratory (SSFL) at Area IV and the Northern Buffer Zone (NBZ) located in Ventura County, California. The work was executed under the USEPA Region 7 Architect and Engineering Services Contract EP-S7-05-05, Task Order 038, Amendment 4. The technical lead on the project is USEPA Region 9.

All field activities were performed in accordance with the Final Phase I Field Sampling Plan (FSP) for Groundwater, Surface Water, and Sediment (HGL, 2010a), the Phase II Groundwater Sampling Addendum to the Phase I FSP for Groundwater, Surface Water, and Sediment (HGL, 2011a), the Quality Assurance Project Plan (QAPP) for Groundwater, Surface Water, and Sediment (HGL, 2010b), the Laboratory-Specific QAPP Addendum, TestAmerica Laboratories (TAL)-Saint Louis, Phase I Groundwater Sampling Event (HGL, 2010c), and the Site Safety and Health Plan (HGL, 2011b).

1.1 PURPOSE

The purpose of this report is to document the activities and analytical results for Phase I and Phase II groundwater sampling events performed at SSFL within Area IV, the NBZ, and select offsite wells, hereafter collectively referred to as the Area IV Study Area. The location of the Area IV Study Area is illustrated on Figure 1.1. The location of the onsite wells located within Area IV and the NBZ are presented in Figure 1.2. The select offsite wells that were sampled as part of the Phase II sampling event are presented in Figure 1.3

1.2 OBJECTIVES

The primary project objective of the Phase I and Phase II groundwater sampling events was to provide data to characterize groundwater radiological conditions and compare results to recent Boeing Company environmental data collected within the Area IV Study Area. To accomplish this objective, groundwater samples were collected from the shallow and deep aquifers present in the Area IV Study Area. The sampling and analysis of groundwater collected from these wells provide the following:

- High quality data for comparison to data reported by others;
- Data on radionuclides not previously assessed, and;
- Data for areas that may require additional assessment.

The data collected during the Phase I and Phase II groundwater sampling events are not intended to be comprehensive but to represent groundwater radionuclide concentrations during fall of 2010 (dry season) and spring 2011 (wet season).

1.3 SCOPE OF WORK

The scope of work presented in the Task Order Proposal submitted by HGL under Contract Number EP-S7-05-05, Task Order 038, Amendment 4 (HGL, 2012a) was refined to include the following Phase I and Phase II activities:

- Conduct two groundwater sampling events; a dry season event (Phase I) and a wet season event (Phase II).
- During the Phase I event, collect groundwater samples from available wells within Area IV and the NBZ.
- During the Phase II event, collect groundwater samples from available wells within Area IV, the NBZ, and select offsite wells.
- Prepare a final Groundwater Sampling Report that documents the sampling activities and results of the Phase I and II sampling events.

1.4 ORGANIZATION OF THE GROUNDWATER REPORT

This report consists of summary tables presenting the water level measurements, radionuclides of concern (ROC) analyte list, monitoring well construction, water quality parameter readings during sampling, and analytical data; groundwater elevation maps; figures presenting detections of ROCs; an evaluation and discussion of the results; and observations and recommendations as appropriate. This report is organized into seven sections:

- Section 1.0 Introduction. Provides an overview of the report structure and a brief overview of the site history obtained from documents describing previous investigations.
- Section 2.0 Site Background. Provides a description of the physical attributes of the SSFL site.
- Section 3.0 Groundwater Sampling Program. Describes an overview of the sampling approach, water level measurements that were collected as part of the field investigation, groundwater sampling activities, and investigation-derived waste (IDW) management.
- Section 4.0 Quality Assurance (QA)/Quality Control (QC) Program. Presents the Z-score analysis of the equipment blanks and field duplicates collected during the Phase I and II sampling events. The Z-score is calculated for each analyte pair to evaluate the significance of the difference between the two results. The method used to conduct the Z-score analysis is presented in Section 3.8 of the QAPP (HGL, 2010b)
- Section 5.0 Summary of Groundwater Results. Presents the analytical results for the samples collected during the Phase I and Phase II Groundwater Sampling Events. Comparisons to available federal and state maximum contaminant levels (MCL) for drinking water are also presented.

- Section 6.0 Summary and Conclusions
- Section 7.0 References. Lists the documents cited during preparation of this report.
- Tables and Figures are provided in separate tabbed sections.
- The Appendices provide supporting technical information derived from field activities. Field sampling data sheets, gauging event data sheets, Phase I and Phase II analytical data, and chain of custodies are included.

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2.0 SITE BACKGROUND

This section describes the physical attributes of the SSFL site and provides a brief overview of the site history obtained from documents describing previous investigations.

2.1 SITE LOCATION AND DESCRIPTION

The SSFL is located in southeastern Ventura County, California, near Simi Valley (Figure 1.1). The 2,850-acre site is approximately 30 miles northwest of downtown Los Angeles between the Simi and San Fernando valleys in the Simi Hills. Residential areas are located near the southern, northern, and eastern boundaries of the site.

2.2 SITE HISTORY

The SSFL is separated into four administrative areas (Areas I – IV). The Boeing Company owns all of Area I, except for 42 acres that are owned by the National Aeronautics and Space Administration (NASA). Area II is owned by NASA and operated by The Boeing Company; and The Boeing Company owns and operates Areas III and IV. Areas I, II, and III were used by predecessors of The Boeing Company, NASA, and the Department of Defense for rocket engine and laser testing. Chemical contamination resulting from those activities is the responsibility of The Boeing Company and NASA and is not part of the scope of this project. The Area IV Study Area is comprised of 471 acres (approximately 290 acres in Area IV and 181 acres in the NBZ).

Until its closure, the Department of Energy (DOE) was responsible for operation of the Energy Technology Engineering Center (ETEC) located within Area IV and used by DOE for nuclear research and other experimental activities. From the mid-1950s until the mid-1990s, DOE and its predecessor agencies were engaged in or sponsored nuclear operations including the development, fabrication, disassembly, and examination of nuclear reactors, reactor fuel, and other radioactive materials. Associated experiments included large-scale sodium metal testing for fast breeder reactor components. Nuclear operations at ETEC included 10 nuclear research reactors, seven critical facilities, the Hot Laboratory, the Nuclear Materials Development Facility, the Radioactive Material Handling Facility (RMHF), and various test and radioactive material storage areas.

All nuclear research in Area IV was terminated in 1988, when DOE shifted its focus at SSFL from research to decontamination and decommissioning activities. Decontamination and decommissioning of the sodium test facilities started in 1996, when DOE determined that the entire ETEC facility was surplus to its mission and began formal cleanup and closure of its facilities in Area IV in preparation for returning the property to The Boeing Company.

2.3 PHYSICAL SITE SETTING

The physical setting of the site in terms of localized topography, earth materials, and hydrogeological setting are discussed in the following subsections.

2.3.1 Topography and Drainage

The SSFL is located on a ridge within the Transverse Ranges physiographic province. The facility is about 850 feet above the valleys to the north and south. While the laboratories and other facilities within Area IV are generally located on relatively flat ground, local relief can be up to 600 feet. In the Area IV Study Area, the highest elevation (2,150 feet above mean sea level) is along the southern boundary (Figure 2.1). Along the northwest boundary, the land slopes steeply away to undeveloped land. The relatively flat area in the southern part of Area IV is called "Burro Flats."

Surface water drainage in the northern portion of the Area IV Study Area flows north into Meier Canyon and north-northwest into Runkle Canyon, which are tributaries to the Arroyo Simi, flowing westward and terminating in the Pacific Ocean. Drainage of the majority of Area IV leads to the southeast into the Bell Creek drainage system as suggested by the location of the northeast-southwest trending drainage divides on Figure 2.1. Bell Creek is the headwater and tributary of the Los Angeles River, which flows south and eastward terminating in the Pacific Ocean. Given the topographic divide and topographical rises to the east and west of Area IV, there is no drainage directly to the west or east from Area IV (U.S. Geological Survey, 1952). The northern portion of Area IV drains generally to the north into the NBZ, which itself drains generally to the north.

Surface drainage within the Area IV Study Area is through man-made and natural ditches and swales that lead to natural streambeds. The drainage from some operational areas is directed through various settling and process ponds. The locations of surface drainage features are presented on Figure 2.1.

2.3.2 Soils

The parent material of the soil in the Area IV Study Area consists of weathered bedrock, colluviums and alluvium derived from the Chatsworth Formation. According to the Natural Resources Conservation Service, approximately 40 percent of the Area IV Study Area is classified as sedimentary rock outcrop. The two predominant soil types in Area IV are a sandy loam of the Saugus series and a loam of the Zamora series. The Saugus series soils consist of deep, well drained soils that usually form on dissected terraces and foothills and are moderately permeable. The sandy loam of the Saugus series usually has slopes of 5 to 30 percent. The Zamora series soils are typically well drained loam that forms on nearly level grade or on strongly sloping fans and terraces. The Zamora series in Area IV has slopes that range from 2 to 15 percent (U. S. Department of Agriculture, 2003).

2.3.3 Geology

The SSFL is located within the Transverse Ranges physiographic province, approximately 30 miles north of downtown Los Angeles (Bailey and Jahns, 1954). Two geologic formations underlie Area IV within the SSFL: the Cretaceous Chatsworth Formation and the Tertiary Santa Susana Formation. The Chatsworth Formation underlies approximately 80 percent of Area IV. The descriptions in the following sections are derived from the Preliminary Geologic

Map of the Los Angeles 30 feet by 60 feet Quadrangle, Southern California (Yerkes and Campbell, 2005). A geologic map of the area is presented as Figure 2.2.

2.3.3.1 Chatsworth Formation

The Chatsworth Formation consists of three unnamed members. The members were deposited by turbidity currents in the deep ocean at depths ranging from 4,000 to 5,000 feet. Turbidity currents cause massive submarine landslides from the continental shelf into submarine canyons, which are generally more than a 1/2 mile wide and greater than 10 miles in length. During periods without turbidity currents, silt and clay particles from runoff filtered to the ocean floor and formed the siltstone strata found in the formation.

Deposited in the late Cretaceous era, the Chatsworth Formation is in excess of 6,000 feet thick. The uppermost member is a thick strata of light gray to brown sandstone, which is hard, coherent, arkosic, micaceous, and primarily medium-grained separated by thin partings of siltstone. The middle member is a gray conglomerate of cobbles of rounded, polished clasts of quartzite, porphyry and granitic rocks in hard sandstone matrix. The lower member is gray clay shale, crumbly with ellipsoidal fracture where weathered, and may include sandstone strata.

2.3.3.2 Santa Susana Formation

The Burro Flats Fault places the Chatsworth Formation in structural contact with the Santa Susana Formation in the Area IV Study Area. The Santa Susana Formation underlies the southwestern most portion of the Area IV Study (Figure 2.2) and consists of four members. The unnamed uppermost layer of the Santa Susana Formation consists of gray micaceous claystone and siltstone with a limited number of thin sandstone beds. Below the uppermost layer lies a second unnamed layer that is made up of tan coherent fine-grained sandstone, which locally contains thin shell-beds and calcareous concretions. Underlying this layer is the Las Virgenes Sandstone Member, which is composed of tan semi-friable bedded sandstone and is locally pebbly. The oldest member is the Simi Conglomerate Member. This member contains gray to brown cobble conglomerate with smooth cobbles of quartzite, metavolcanic and granitic rocks in sandstone matrix that locally includes thin lenses of red clay. The Santa Susana Formation was also formed by turbidity currents.

2.3.3.3 Geologic Structures at the Santa Susana Field Laboratory

The SSFL is located on the south flank of an approximately east-west striking, westward plunging syncline. There are three categories of geologic structures present in the SSFL faults/fault zones, deformation bands, and structures (Montgomery Watson Harza [MWH], 2007). The fault zones and deformation features displace primary geologic features, the former showing displacement of at least 5 feet and the later with minimal observed displacement (less than 6 inches). Mapped faults in the SSFL are presented on Figure 2.2. The Burro Flats Fault places the Chatsworth Formation in structural contact with the Santa Susana Formation in the southwest portion of the Area IV Study Area.

2.4 HYDROGEOLOGY

The groundwater system in the vicinity of SSFL is recharged by precipitation. Recharge occurs throughout the Simi Hills and rates vary with the type of geologic material, local topography, vegetation, and precipitation. The elevation of groundwater at the SSFL is up to 900 feet higher than the groundwater levels in the surrounding alluvial valleys (Simi and San Fernando valleys), suggesting that groundwater flows from the higher elevations toward the topographically lower areas.

In the Area IV Study Area, groundwater occurs in the overburden and weathered bedrock and in consolidated bedrock. Historical documents commonly refer to the saturated overburden as near-surface groundwater. Groundwater that occurs in the fractured Chatsworth Formation is referred to as the Chatsworth Formation groundwater. Numerous monitoring wells are located in Area IV. Approximately 46 of these wells are screened in the near-surface groundwater, with depth-to-water occurring from 5 feet to 50 feet below ground surface (bgs). Approximately 52 wells are screened in the deeper Chatsworth Formation groundwater, with depth-to-water ranging from approximately 16 feet to 320 feet bgs. Of the 98 monitoring wells in the Area IV Study Area, seven shallow wells and four deep wells were removed from the Phase I and Phase II sampling events because they were damaged, capped or abandoned. In some areas of the SSFL the groundwater in the overburden is perched, and in other areas groundwater within the overburden is in direct communication with groundwater in the Chatsworth Formation.

Groundwater flow at SSFL has been the subject of numerous studies by The Boeing Company and the DOE. MWH discusses results of recent flow characterization efforts including horizontal and vertical flow (MWH, 2009). A groundwater divide occurs near the center of the Area IV Study Area (Figure 2.1). Downward and upward vertical gradients have been reported at SSFL. Groundwater flow through fractures in the hydrogeologic units at SSFL is also discussed in the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009). The hydrogeologic investigation and agreement concerning the conceptual model is ongoing.

2.5 HYDROLOGY

The mean annual rainfall from 1960 to 2008, as measured at a U.S. weather station located in the northeastern part of the SSFL, averaged 18.5 inches per year with a record low of 6.15 inches in 2007 and a record high of 41.24 inches in 1998 (MWH, 2009). Although normally in the form of rain, precipitation at SSFL can also be in the form of snow during the winter months. The majority of annual precipitation falls between the months of November and March (wet season). The locations of surface drainage features are presented on Figure 2.1.

3.0 GROUNDWATER SAMPLING PROGRAM

Groundwater sampling activities conducted during the Phase I and Phase II groundwater sampling program included measurement of groundwater elevations and collecting and analyzing groundwater samples. A discussion of the radionuclides that were analyzed and the sampling activities conducted during the Phase I and Phase II sampling events is presented in this section.

3.1 GROUNDWATER SAMPLE ANALYSES

3.1.1 Radionuclides of Concern

As part of the Final Sampling and Analysis Plan for the Radiological Background Study, Santa Susana Field Laboratory (HGL, 2009), the USEPA developed a list of ROCs for laboratory analyses of soil. The list of ROCs was developed evaluating available historical information including: information from the DOE Hanford Site in Richland, Washington (Washington State Department of Health, 1996), State of California Department of Public Health suggestions, and a document commissioned by DOE titled "Radionuclides Related to Historical Operations at the Santa Susana Field Laboratory Area IV" (Rucker, 2009). Findings of the Historical Site Assessment (HSA) (HGL, 2012b), that were not available at the time of FSP finalization, were not considered. The ROC list was refined in consideration of the following criteria which were reviewed by SSFL Technical Stakeholder Group on March 23, 2009:

- The radionuclide was used or produced at SSFL.
- The physical state of the radionuclide was not a gas. An exception to this criterion is if the radionuclide is a gas and its parent was not removed from the list, then it would not be proposed for removal from the ROC list.
- The radionuclide has a half-life greater than 1 year. An exception to this criterion is if the radionuclide has a half-life of less than 1 year and its parent was not removed from the list, then it would not be proposed for removal from the ROC list.
- The SSFL Technical Stakeholder Group elected to retain a specific radionuclide on the list of ROCs.

Groundwater samples were analyzed for a targeted list of ROCs, selected from the complete list of soil ROCs. This approach was selected because it provided the data necessary to meet the data quality objectives of the project while optimizing costs. The approach described below was applied during selection of the targeted list of groundwater ROCs. In order to achieve a cost/benefit balance two sets of ROCs were established (Priority 1 and Priority 2 analytes). Priority 1 analyses were performed on all groundwater samples. To optimize costs, Priority 2 analyses (in addition to Priority 1 analysis) were performed on a select number of groundwater samples.

Table 3.1 summarizes the Radionuclides that were selected for analyses during the Phase I and II sampling events. Tables 3.4 and 3.5 list the wells sampled for the Priority 2 analytes for

Phase I and Phase II sampling events, respectively. The following subsections describe the prioritization of analytes for groundwater sampling.

3.1.1.1 Priority 1 and 2 Groundwater Radionuclides

Priority 1 analytes provide the most direct benefit to the project dataset relative to the cost to obtain the data. The following radionuclides were selected for Priority 1 groundwater analysis.

- Tritium was selected because it is a specific ROC, and has been detected onsite in previous investigations.
- Strontium-90 was selected because it has been detected onsite in previous investigations.
- Gamma spectroscopy analytes are included in the Priority 1 list because a large number of ROCs at SSFL were analyzed non-destructively at low cost.
- Uranium isotopes were selected because they have been previously reported in SSFL soil and water samples.
- Gross alpha and beta radiation analyses were selected because they can be used as a screening tool to indicate the presence of radionuclides other than those specifically tested.

The Priority 1 list includes specific gamma spectroscopy analytes of interest such as cesium (Cs)-134, Cs-137, and cobalt (Co)-60, which have been reported in water. The Priority 1 list also contains certain gamma emitting radioisotopes that have not been previously detected in SSFL water samples. This group of analytes is included because they may be detected and reported through cost-effective gamma spectroscopy.

Priority 2 radionuclides represent potentially important analytes that, because of cost, were only analyzed for a limited number of groundwater samples for the Phase I and Phase II work. These analytes are:

Priority 2 Groundwater Radionuclides	
carbon (C)-14	technetium (Tc)-99
iodine (I)-129	radium (Ra)-226
neptunium (Np)-237	plutonium (Pu)-238
Pu-239	Pu-240
Pu-242	americium (Am)-241
curium (Cm)-243	Cm-244
Cm-245	Cm-246

These isotopes were selected based on a combined consideration of health risks, mobility in water, and the total information gained or inferred from the analysis. Tc-99, I-129 and Np-237 are relatively mobile but are not the highest priorities. The isotopes Pu-238, Pu-239, Pu-240, Pu-242 are generally highly immobile. Americium-241 was previously reported in groundwater at SSFL and was retained in the Priority 2 list together with the Cm radionuclides which are analyzed together with Am-241. Radium-226 is a naturally occurring radioisotope that has a relatively high health risk and has been detected onsite.

3.1.1.2 Analytical Priority Based on Available Sample Volume

Although a priority list of radionuclides was developed, each well did not contain a sufficient volume of water for all analyses to be performed. Therefore, an additional analysis priority list was established as listed below. If the volume of water that could be collected was limited, the laboratory was instructed to subsample the gamma spectroscopy volume for analysis of the remaining analytes where practical.

The following list specifies the order in which sample volumes were collected for analysis:

- tritium (H-3)
- Gamma spectroscopy analytes (with one exception for Sr-90, see below)
- Uranium (U) isotopes
- Sr-90 (this radionuclide was given second priority at well RD-98 where it has been reported before)
- Gross alpha and beta radiation
- Priority 2 analyses in the following sets:
  - Am-241, Cm-243, Cu-244, Cm-245, Cm-246
  - Pu-238, Pu-239, Pu-240, Pu-242
  - Np-237
  - Ra-226
  - I-129
  - Tc-99
  - C-14

Note that the Priority 2 analytes were analyzed only at a few select wells. These wells are listed in Tables 3.4 and 3.5.

3.1.1.3 Additional Sample Volume for Laboratory Quality Control

The project laboratory selected to support the Phase I and Phase II Groundwater Sampling events was the TAL facility located in Earth City, Missouri. After reviewing the sampling program, TAL requested that extra sample volume be submitted on a regular basis to allow the laboratory to perform site-specific QC analyses in preparation and analysis batches. HGL collected and submitted an extra volume at a minimum frequency of one sample per 20 locations to ensure that TAL had sufficient volume to perform laboratory duplicate analyses. HGL indicated on the chain-of-custody form that an extra volume was being provided. Matrix spiking uses a radioactive or stable isotope tracer as a means to determine chemical recovery of

the method. Matrix spiking of gross alpha, gross beta, H-3, and C-14 required the collection of extra sample volumes. Thus, in addition to the lab-requested volume, HGL also collected and submitted sufficient extra volume at a minimum frequency of one sample location per 20 to perform matrix spike analyses.

3.1.1.4 Action Levels and Minimum Detectable Concentrations

The data quality objectives are discussed in detail in the project QAPP (HGL, 2010b). Agricultural preliminary remediation goals (AgPRGs) were not established for groundwater. Instead the action level was set at the MCL where an MCL in drinking water has been promulgated for an ROC.

The minimum detectable concentration (MDC) action levels for the ROCs listed in Table 3.1 of the Laboratory-Specific QAPP Addendum (HGL, 2010c) were also required to meet the following criteria:

- The required relative method uncertainty for each ROC must be no more than 10 percent, when the measured activity is at or above the action level.
- For sample activity less than the action level, the required absolute method uncertainty is not to exceed 10 percent of the action level.
- In cases where the ROC action levels are below the quantification capabilities of available analytical technology, the laboratory was required to propose alternate activity levels at which the requirements for the relative and absolute uncertainties can be achieved.
- Alternate activity levels, which may be considered practical limits to the action levels, must be approved by USEPA before acceptance.

3.1.1.5 Analysis of Total Activity and Activity of Filtered Water Samples

In accordance with the Phase I FSP (HGL, 2010a) water samples were not filtered or preserved in the field. All water samples collected were passed through a 0.45 micron filter at the laboratory and preserved. Preservation of the samples were completed within 48 hours of sample collection. Both the activity of the filtered water and the activity of the residue collected on the filter were measured. The activity of the filter residue was converted to a volumetric activity. Total activity was derived through summation of the filtered water activity and the activity of the filter residue. The groundwater, surface water, and sediment sampling QAPP for this project (HGL, 2010b) describes the laboratory procedures in detail.

It should be noted that the Phase I tritium results are reported as the filtered fraction of the sample and the Phase II results are reported as the total. The SSFL Scope of Work for Analytical Services Support specifies that tritium analysis in water samples is to be performed on unfiltered, unpreserved aliquants. This is related to the physical properties of hydrogen, which may cause the filtered fraction analysis to be invalid, and the expectation that H-3 in groundwater is to be found nearly exclusively in the aqueous phase, with only trace amounts

potentially found in the solid phase and then only in the presence of significantly elevated H-3 in the aqueous phase.

An error in the laboratory during analysis of the Phase I samples resulted in the laboratory filtering the samples and analyzing the solid (i.e. "suspended") and aqueous (i.e. "filtered") phases separately. The solid phase analyses proved to be problematic, as expected; the majority of the solid phase results failed various QC sample acceptance criteria and all solid phase results were subsequently rejected. The remaining aqueous results were reported as "filtered" by the laboratory, since these results represented the filtrate portion of the sample. These results are taken to be representative of the "total" H-3 activity and are accepted without further qualification, in that regard. Phase II H-3 samples were analyzed without filtration and were reported by the lab as "total" results. The Phase I "filtered" results and the Phase II "total" results are believed to be equivalent and both are believed to represent comparable total H-3 activity results in a groundwater sample.

3.2 GROUNDWATER SAMPLING ACTIVITIES

Groundwater samples were collected from the shallow and deep aquifers present within the Area IV Study Area. There are three types of groundwater wells that were sampled during the Phase I and Phase II sampling events: piezometers, monitoring wells, and deep open-hole bedrock wells. The following sections discuss the activities conducted as part of the groundwater investigation portion of the Area IV Radiological Study.

3.2.1 Determination of Sample Locations

A site reconnaissance was conducted on March 24, 2010, to evaluate the condition of each known well in Area IV and the NBZ. A total of 97 wells were located, of which 85 were found to be in a physical condition that could be sampled while 12 were found to be damaged or abandoned and could not be sampled. The wells that could be sampled were included in the Phase I and Phase II sampling program, which is documented in the Phase I FSP (HGL, 2010a).

3.2.2 Sampling Coordination with The Boeing Company

MWH, a contractor of The Boeing Company, was responsible for performing all activities that required well access with the exception of actually collecting samples into laboratory containers. MWH, on behalf of The Boeing Company, subcontracted Blaine Tech Services Inc. (Blaine Tech) to procure, maintain, and calibrate the sampling equipment used during the sampling events. Blaine Tech conducted the purging activities for all of the wells sampled except for the Flexible Liner Underground Technologies (FLUTe™) wells, which were purged by BL Hall Inc. (BL Hall), another contractor of The Boeing Company. The Boeing Company, their contractors and their subcontractors, followed the procedures for groundwater sampling described in the Phase I FSP (HGL, 2010a) while purging the wells and were continuously monitored by HGL, on behalf of USEPA, for compliance with the FSP requirements. Samples were collected and remained in the custody of HGL before being

shipped to TAL. All chain-of-custody procedures were strictly adhered to as outlined in the Phase I FSP (HGL, 2010a).

3.2.3 Low-Flow Purging and Sampling

Low-flow purging and sampling, as described in the Phase I FSP (HGL, 2010a), was performed in wells with short screens (10 feet or less in length) and water column lengths equal to or greater than 3 feet, to obtain representative samples of formation groundwater. The low-flow purging method is based on the premise that low-flow pumping, with little or no drawdown, will rapidly establish laminar flow and withdraw formation water without significantly mixing or dewatering the stagnant water in the well and without mobilizing material not naturally occurring within the aquifer. In addition, due to exceptionally low-flow rates, turbidity is generally reduced. The low-flow method therefore minimizes purge volumes and IDW volumes while providing more representative aquifer samples. The low-flow method was not used to purge or sample the open-hole wells which are advanced into the fractured bedrock. It is the opinion of the USEPA that low-flow is not the proper method to use when sampling wells advanced into fractured bedrock because laminar flow cannot be established in fracture flow conditions. The well-volume approach was used to sample the wells advanced into the fractured bedrock.

During the Phase I Groundwater Sampling Event, a total of fifteen wells, all of which were piezometer wells, met the specification for purging using the low-flow method. The following wells were purged via low-flow during Phase I:

Piezometer Number	Piezometer Number
PZ-005	PZ-106
PZ-041	PZ-108
PZ-052	PZ-109
PZ-098	PZ-112
PZ-100	PZ-120
PZ-103	PZ-121
PZ-105	PZ-122
PZ-161	

During the Phase II Groundwater Sampling Event, a total of 25 wells met the specification for purging using the low-flow method. All Phase II wells purged using low-flow methods were piezometer wells, with the exception of RS-16. The following wells were purged via low-flow during Phase II:

Piezometer/Well Number	Piezometer/Well Number
PZ-005	PZ-111
PZ-041	PZ-112
PZ-052	PZ-113
PZ-056	PZ-116
PZ-098	PZ-120
PZ-100	PZ-121
PZ-101	PZ-122
PZ-102	PZ-124
PZ-103	PZ-150
PZ-105	PZ-160
PZ-106	PZ-161
PZ-108	RS-16
PZ-109	

A detailed description of the low-flow purging and sampling procedure that was used is presented in Standard Operating Procedure (SOP) 2.02, Appendix A, of the Phase I FSP (HGL, 2010a). The following is a general description of the low-flow purging and sampling process that was used.

3.2.3.1 Low-Flow Purging

Before purging, the water column length was calculated in order to minimize agitation of the sediment present at the base of the well. The water column was calculated by using the depth-to-water subtracted from the total well depth measurement obtained from the data collected during the pre-sampling gauging event, or by the well construction details when obstructions or pumps in the wells prevented total depth measurements.

In wells where the water level was above the well screen, the pump inlet was positioned at the highest hydraulic conductivity elevation (if known) or approximately in the center to slightly above the center of the well screen. In wells where the water level was below the top of the well screen, the pump was placed at the elevation of highest hydraulic conductivity in the saturated zone (if known) or near the center of the water column.

Wells were purged at a rate of approximately 50 to 500 milliliters per minute (mL/min), depending on whether the well water level and quality readings stabilized. A graduated container was used to accurately measure the flow rate. Water levels were recorded every 3 to 5 minutes to monitor drawdown in the well and to allow for flow rate adjustment before the maximum drawdown of 0.33 feet static water level was exceeded. Water quality parameter readings such as temperature, pH, electrical conductivity (EC), dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity, and flow rate were also measured every 3 to 5 minutes, and recorded on the groundwater field sampling data sheets, included in Appendix A, during purging. During the purging, a minimum of one tubing volume (including the volume

of water in the pump and flow cell) was purged before recording the water quality parameter readings.

Groundwater samples were collected once the water level had stabilized with at least three consecutive water quality readings that met the following criteria:

- pH ± 0.1 units
- EC ± 3 percent
- DO ± 10 percent
- ORP ± 10 millivolts, and
- Turbidity ± 10 percent (when turbidity is greater than 10 nephelometric turbidity units [NTU]).

Groundwater samples were collected with the pump used in the purging procedure at a flow rate of 50 mL/min to 500 mL/min once parameters had stabilized. As per Section 4.6.2.1 the Phase I FSP (HGL, 2010a), if water quality parameters did not stabilize professional judgment was exercised to determine whether stabilization sampling can occur. Justification for the associated decision was documented on the groundwater field sampling data sheet. Turbidity readings below 50 NTUs were strived for; however, if turbidity dropped below 10 NTUs, the water was considered stabilized for that parameter. When turbidity was high, the purge time was extended in order for turbidity to reach a value below 50 NTUs, or until it stabilized above 50 NTUs for 15 to 30 minutes, or unless field conditions necessitated otherwise.

Tables 3.2 and 3.3 present the Phase I and Phase II final water quality parameter readings collected during sampling. All justifications for field decisions, including any deviations from the SOP, are documented on the field sampling data sheet, included as Appendix A, and in the logbooks.

All associated discharge tubing and water quality meters were kept in shaded areas to limit the tubing and equipment from heating the groundwater.

3.2.3.1.1 Slow Recharging Well or a Water Column Less Than 3 Feet

When an extremely slow-recharging well or a well with a water column three feet or less was encountered, a Teflon, disposable bailer was employed to purge the well. The bailer was slowly lowered to the top of the water column and allowed to fill. The water-filled bailer was then brought to the surface, and its contents emptied into properly labeled sampling containers in the order specified in Section 3.1.1.2.

For wells with an extremely slow recharge or with a water column of 3 feet or less, water level stabilization was not required. Groundwater samples were collected prior to purging in case the wells were purged dry, and didn't recover. These samples were reserved for possible analysis if there was inadequate recovery in the wells after purging and are designated screening samples. If the wells recovered, a post purge sample was collected that was not qualified as a screening sample.

As with wells with water columns greater than 3 feet, professional judgment was used to determine whether stabilization had been achieved. At a minimum, at least one well casing volume was purged from the well. Once water quality parameters were stabilized and the minimum purge volume removed, groundwater samples were collected.

During the Phase I Groundwater Sampling Event, screening samples were collected prior to purging for eight wells. The screening samples were collected using the Teflon bailer from the following locations:

Piezometer/Well Number	Piezometer/Well Number
RS-18	PZ-150
RS-25	PZ-151
PZ-056	PZ-160
PZ-114	RD-88

Of these eight wells, two wells (RS-25 and RD-88) recharged and post-purge samples were collected, while the remaining wells were purged dry and did not recover. In these cases the initial screening samples were analyzed.

During the Phase II Groundwater Sampling Event, screening samples were collected from six wells prior to purging. The screening samples were collected from the following locations:

Piezometer/Well Number	Piezometer/Well Number
RS-23	PZ-055
RS-25	PZ-114
RS-27	PZ-151

Of these six wells, one well (RS-25) recharged and a post-purge sample was collected, while the remaining wells were purged dry and did not recover. In these cases the initial screening samples were analyzed.

For the wells that did recover after collection of screening samples, water quality parameters were measured at least once per gallon purged, unless field conditions necessitated otherwise. This purging process continued until three well volumes had been removed, stabilization of the water quality parameters had occurred, or the well was purged dry.

3.2.3.1.2 Screening Water Sampling of Wells That Remain Dry

As discussed in Section 3.2.3.1.1, screening-water samples were collected for wells that recharged very slowly. These samples were labeled and sent to TAL. Wells that went dry were inspected within 24 hours to see whether there had been recharge. If the well recharged within 24 hours, groundwater samples were collected by Teflon bailer. If after three consecutive days of water level monitoring, the well did not recover and remained dry, the

laboratory was directed to analyze the original water-screening samples. These water-screening samples were flagged and segregated from results for groundwater samples acquired using low-flow or well-volume approach sampling during reporting.

As stated in Section 3.2.3.1.1, eight screening-water samples were collected using the Teflon bailer during the Phase I Groundwater Sampling Event, and sent to TAL. Of these eight samples, six of them were from wells that did not recharge, and were therefore analyzed by the laboratory. The six screening-water samples were collected from wells RS-18, PZ-056, PZ-114, PZ-150, PZ-151, and PZ-160.

During the Phase II Groundwater Sampling Event, seven screening-water samples were collected using the Teflon bailer and sent to TAL. Of these seven samples, six of them were from wells that did not recharge, and were therefore analyzed by the laboratory. The six screening-water samples were collected from wells RS-18, RS-23, RS-27, PZ-055, PZ-114, and PZ-151.

3.2.3.2 Low-Flow Groundwater Sampling

Once well purging was completed, a groundwater sample was collected. The equipment used to purge the well was also used to collect the groundwater sample. For example, if a bladder pump was used to purge the well, then the bladder pump was used to collect the groundwater sample.

For sampling conducted using a pump, the sample pumping rate ranged between 50 mL/min to 500 mL/min. Therefore, if a well had been purged at a rate greater than 500 mL/min, then the pumping rate would have been reduced to 500 mL/min to begin sampling; however, no well was able to be purged at a rate greater than 500 mL/min without lowering the water column or causing well parameter stabilization issues. Under no condition was a water sample collected on the effluent end of a flow through cell of a water quality meter. In cases where a Teflon disposable bailer was utilized to purge a well, the water level within the well was allowed to recover to within 85 percent of its initial static water level (within 24 hours), before sampling.

Sampling consisted of slowly lowering the disposable bailer used for purging the well into the water column. Care was taken to minimize agitation of the water column and the sediments that may have been present at the bottom of the well. Once the bailer was full, the bailer was retrieved from the well and the direct-pour method was employed to fill the necessary sample containers. Upon approval by the Field Operations Manager, minimum sample volumes were collected when well yield was insufficient to provide a full sample volume. This was the case in wells PZ-056, PZ-114, PZ-150, and RS-25 during Phase I; and in wells PZ-055, PZ-114, and PZ-151 during Phase II.

Samples were collected in the order described in Section 3.1.1.2. Sample containers were labeled with the appropriate identifying information (location, date, time, and condition). Each sample was logged on a groundwater sample collection data sheet at the time of collection. Copies of the Groundwater Field Sampling Data Sheets are included as Appendix A. Sample

containers of appropriate volume and composition were prepared in advanced to ensure the collection of sufficient volumes for all specified analyses including QA/QC samples.

The following QA procedures were followed when collecting groundwater samples from all monitoring wells:

- Samples were collected using direct-pouring techniques. While filling the appropriate sample containers, care was taken not to overfill sample containers.
- Field duplicates were collected from monitoring wells located in contaminated areas of various concentrations. All QA/QC samples were collected from monitoring wells that had a sufficient recharge rate to supply the additional volume of water needed within a reasonable time frame.
- All sample containers were shipped overnight to TAL using Federal Express. Samples were delivered to the laboratory to comply with holding times specified in the sample handling, packing, and shipping procedures outlined in the Phase I FSP (HGL, 2010a).

3.2.4 Well-Volume Approach for Open-Hole Bedrock Well Sampling

The sampling procedure for the open-hole bedrock wells differed from the low-flow approach in that drawdown and pumping rates are not necessarily limited; however, the objective was, when possible, to limit full evacuation of the water column and to achieve parameter stabilization, as described for low-flow techniques. In addition, a minimum of 3, but no more than 6, well volumes were evacuated. Wells pumped dry during the purging activities were allowed to recover to 75 percent of the original well volume or, in the case they did not recover to 75 percent, were sampled within 24 hours of being pumped dry. In cases where the well did pump dry, pH, EC, DO, ORP, temperature, and turbidity were monitored and recorded during sample collection from the recovered volume.

During Phase I groundwater sampling, 35 wells were purged and sampled using the well-volume approach as indicated on Table 3.4. Well RS-54 was purged using the well-volume approach; however, it was purged dry and did not recover for 3 consecutive days, therefore no sample was able to be collected.

During Phase II groundwater sampling, 38 wells were purged and sampled using the well-volume approach. Table 3.5 provides a summary of the Phase II groundwater sampling and lists those wells that were sampled using the well-volume approach.

A pre-purge screening sample was collected from well RS-54 prior to being purged dry using the well-volume approach. Well RS-54 did not recover so the screening sample was analyzed.

3.2.5 Sampling Flexible Liner Underground Technologies Multi-Level Wells

Within the Area IV Survey Area, there are 10 FLUTe™ wells (RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, and RD-65). The FLUTe™ wells, which contain multiple sampling ports, operate by purging water using an inert gas. The gas displaces

groundwater from within the sample tube and sample port. After initial purging, the sample port and tubing are allowed to refill with groundwater before sampling formation water. Each port is located at a different depth interval, which allows the sampler to collect a sample from a specified depth. Nitrogen gas was used for purging during both the Phase I and Phase II groundwater sampling events.

Though there are multiple ports at each multi-level location, only one port from each location was selected for sampling due to the Phase I and Phase II cost constraints. The criteria used to select each port, in order of priority, are presented below:

- The port with the highest level of reported tritium was selected for sampling.
- If no tritium data exist for the multi-level well, the well port with the highest reported hydraulic conductivity was selected.
- In cases where there is no port-specific tritium data or hydraulic conductivity data, a port within the first 100 feet of saturated bedrock was selected.

BL Hall operated the FLUTe™ wells, while HGL oversaw the purging operations and collected the samples. The ports used for sample collection are stated on the Groundwater Field Sampling Data Sheets included as Appendix A, and are also presented in Table 3.6.

3.3 AREA IV WIDE WATER LEVEL MEASUREMENT EVENT

Comprehensive water-level gauging events were conducted prior to each groundwater monitoring event. The tape and probe that entered the wells were decontaminated prior to initial gauging of the wells and between each well in accordance with the SOP 2.01 included in the Phase I FSP (HGL, 2010a).

Depth-to-water and depth-to-bottom measurements, measured from the established measuring point or from the top, north side of the inner well casing, were recorded, along with general well condition and any other pertinent observations. Gauging event data are presented in Appendix B.

3.3.1 Phase I Water Level Gauging Event

The Phase I Groundwater Gauging Event occurred during the dry season on July 21, 2010. HGL, along with Blaine Tech, gauged 85 wells within the Area IV Study Area. Depth to water ranged from 11.24 feet below top of casing (RD-34C, Chatsworth Formation) to 323.25 feet below top of casing (RD-54B, Chatsworth Formation). A total of 17 wells were found to be dry during the Phase I Groundwater Gauging and Sampling Event, as listed in Appendix B. Twelve wells were found to be abandoned or damaged during the gauging event.

3.3.2 Phase II Water Level Gauging Event

Phase II groundwater gauging consisted of two events. An initial wet season groundwater gauging event took place in January 2011 and a second in March 2011. During the initial gauging event in January, 88 groundwater wells were gauged. Of the 88 wells gauged, seven

were found to be dry. Depth to water ranged from 5.82 feet below top of casing in well RS-18 to 318.90 feet below top of casing in RD-56A (Appendix B).

During the March 2011 gauging event the following offsite groundwater monitoring wells were gauged:

Piezometer/Well Number	Piezometer/Well Number
OS-2	RD-59A
OS-3	RD-59B
OS-4	RD-59C
OS-5	RD-68A
OS-9	RD-68B
OS-9R	WS-09A
OS-10	

Offsite well OS-21 was not gauged as scheduled because permission from the current land owner could not be obtained.

On March 16, 2011, HGL, along with Blaine Tech, gauged 83 wells within the Area IV Study Area. Depth to water ranged from 4.57 feet below top of casing (RS-18, Shallow Well) to 282.54 feet below top of casing (RD-33C, Chatsworth Formation). Five wells (RS-24, PZ-073, PZ-110, PZ-143, and offsite well OS-05) were found to be dry during the Phase II Groundwater Gauging and Sampling Event (water levels are presented in Appendix B).

3.4 MONITORING WELL SAMPLING

Two groundwater sampling events were completed as part of this project. Details of the Phase I and Phase II Groundwater Sampling Events are discussed in Sections 3.4.1 and 3.4.2. The well/piezometer designations and construction information are presented in Appendix C.

A list of parameters analyzed for each well sampled during Phase I and Phase II events is provided as Tables 3.2 and 3.3, respectively.

All sampling equipment was thoroughly cleaned and decontaminated before starting field work each day and between sampling locations in accordance with HGL's SOP 2.01 Cleaning and Decontaminating Sample Containers and Sampling Equipment included in the Phase I FSP (HGL, 2010a).

Water quality parameter readings were collected from all wells during sampling activities on the groundwater field data sheets, which are included as Appendix A. Phase I and Phase II final water quality parameter readings during sampling are presented in Tables 3.2 and 3.3, respectively. The well/piezometer designations and construction information are presented in Appendix C.

3.4.1 Phase I Groundwater Sampling Event

The Phase I Groundwater Sampling Event was conducted during the dry season from August 19, 2010, through September 10, 2010. Of the 97 well locations identified for sampling, 41 were deep monitoring wells, 10 were FLUTe™ wells, 10 were shallow monitoring wells, and 36 were piezometers (Appendix C). During the Phase I July 2010 gauging event, twelve wells were found to be either abandoned or damaged, and 17 wells were found to be dry. As a result, a total of 68 wells were sampled during the Phase I Groundwater Sampling Event.

Groundwater monitoring wells sampled during Phase I were sampled using the techniques described in Section 3.2.3, 3.2.4, and 3.2.5. Screening water samples were collected and analyzed for wells with extremely low to no recharge that did not allow for sampling using other techniques. Phase I wells that did not recover and had screening water samples analyzed are presented in Table 3.4. These data are segregated from other sample data in the comparisons to MCLs, presented in Section 5.2.3. Groundwater wells RS-25, PZ-056, PZ-114, PZ-150, and PZ-151 went dry during the pre-purge sampling activities and, as a result, only partial samples collected. Wells RD-88 and RS-25 recovered after the purging activities and a post-purge sample was able to be collected; however, only a partial post-purge sample was able to be collected from well RS-25. The analyses that were able to be performed for these samples are listed in Table 3.4.
The wells that were sampled for Priority 2 analytes are listed in Table 3.4. Several wells originally scheduled for sampling were not sampled because of lack of water. These wells include RD-97, RD-34B, and RS-18. As a result, wells RD-13, RD-17, and RD-56B were selected as replacements for the Priority 2 analytical suite sampling.

Ten FLUTe™ wells (RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, and RD-65) were purged and sampled during the Phase I Groundwater Sampling Event. Three tube volumes of the designated Port to be sampled were purged prior to sample collection. Water quality parameter readings are not part of The Boeing Company's FLUTe™ well purging protocol, and therefore not taken during purging activities. The ports used for sample collection are presented in Table 3.6 and stated on the groundwater field sampling data sheets included as Appendix A.

3.4.2 Phase II Groundwater Sampling Event

The Phase II Groundwater Sampling Event was conducted during the wet season from March 16, 2011, through April 21, 2011. A total of 93 wells were sampled during the Phase II Groundwater Sampling Event, 68 of which were the same wells sampled during the Phase I Groundwater Sampling Event. The Phase II sampling event also included 13 offsite wells as listed in Table 3.5. Five wells scheduled to be sampled could not because they were dry (Table 3.5). Offsite well WS-09A, a continuously pumping well, was temporarily shut down due to a discharge permit renewal delay, and thus not sampled until June 3, 2011.

Groundwater monitoring wells sampled during Phase II were sampled using the techniques described in Section 3.2.3, 3.2.4, and 3.2.5. Slow recovery wells where screening samples were collected and analyzed included RS-23, RS-27, RS-54, PZ-055, PZ-114, and PZ-150

(Table 3.5). Groundwater wells PZ-055, PZ-114, and PZ-150 went dry during the screening sample collection and resulted in the analysis of only a partial suite of the Priority 1 list (Table 3.5). Well RS-25 recovered after the purging activities and a post-purge sample was able to be collected.

The same wells sampled for the Priority 2 analytical suite in Phase I were sampled for the Priority 2 analytical suite in Phase II (Table 3.5); however, well RD-97, originally dry during the Phase I Groundwater Sampling Event, had sufficient water during the Phase II Sampling Event, and was subsequently sampled for the Priority 2 analytes. In addition, the Priority 2 analyte list was used at well RD-86 during Phase II sampling based on the analytical data collected during Phase I sampling.

The same ten FLUTe™ wells sampled during Phase I were purged and sampled during Phase II. The ports used for sample collection are presented in Table 3.6.

Offsite wells OS-2 (bathtub well), OS-3, OS-4, OS-5, OS-9, OS-10, RD-59B, RD59C, RD-68A, and RD-68B are artesian wells located on the Brandeis-Bardin property. Wells OS-2, OS-3, OS-4, OS-9, and OS-10 were sampled from continuously flowing pipes. Artesian wells RD-59B, RD-59C, RD-68A, and RD-68B were sampled from sample ports located on the wells, which were opened to allow water quality parameters to stabilize before sampling. Well OS-5 was not producing water during the Phase II sampling, and therefore could not be sampled. Wells OS-9 and OS-10 were not producing water during the Phase II sampling; however, there were ponded areas next to the wells where the free flowing groundwater had collected, and samples were collected from those ponded locations.

Well OS-9R, also located on Brandeis-Bardin property, contains a Westbay Multilevel System that is similar to the FLUTe™ wells in Area IV. The Westbay Multilevel System contains 16 ports and three QA ports, each separated by hydraulic inflatable packers. Fluid pressure and temperature readings were collected from each of the 16 ports and three QA ports beginning at the deepest port (Port 16) and ending at the shallowest port (Port 1) prior to sampling. Samples were collected from Port 1 in accordance with Section 3.5 of the Phase I FSP (HGL, 2010a).

The sample was collected by lowering four cylinders down the well casing, and allowing the pressure to build-up, which fills the cylinders with approximately 0.75 liters of water. This process is repeated until the complete sample has been collected.

MWH, representatives of The Boeing Company, operated the Westbay Pump System well for HGL, while HGL oversaw the operations and collected the sample. Port 1 was used for sample collection, as stated on the Groundwater Field Sampling Data Sheets included as Appendix A, and also presented in Table 3.5.

Offsite well OS-21 is located approximately 1/2 mile west of Area IV, just south of the Albertson Fire Road (Figure 1.3), and is pumped using a windmill. Attempts by USEPA/HGL to obtain access to this well were unsuccessful.

Well WS-9A is owned by NASA, and is located within SSFL Area II (Figure 1.3). The well is currently being used as an extraction well to control groundwater flow down-gradient, and therefore is continuously pumping. Well WS-09A is equipped with a spigot sampling port where the sample was obtained. Due to a discharge permit renewal delay, the pump was turned off for several weeks. As a result the well was not sampled until June 3, 2011.

3.5 INVESTIGATION-DERIVED WASTE MANAGEMENT

IDW consisted largely of personal protective equipment (PPE), disposable sampling tools and supplies, monitoring well purge water, supplies, and decontamination water. The remaining IDW was stored onsite until final disposal. Monitoring well purge water with historically elevated levels of H-3 (above 20,000 picocuries per liter [pCi/L]) was stored onsite in a separate containment area until disposed of by evaporation. The following sections detail the management, containment, and disposal of the purge water collected during the Phase I and Phase II sampling events.

3.5.1 Management of Disposable Personal Protective Equipment, Sampling Tools, and Supplies

All disposable PPE (such as nitrile gloves), sampling equipment (such as disposable tubing), and general refuse (such as paper towels) generated during the Phase I and Phase II sampling events were screened for radiation using an alpha, beta, gamma radiation survey meter (pancake meter) before disposal. No elevated radioactivity was detected; therefore the IDW was disposed of as non-hazardous refuse in the dumpster at Building 204 in accordance with Appendix J of the Site Management Plan (HGL, 2010e).

3.5.2 Management of Purge Water

All purge water was stored onsite. As described below, water from wells without historically elevated H-3 levels was handled differently from purge water than other wells. For all purge water, weekly inspections were conducted by HGL to ensure containment vessels were free from leaks and in overall good condition.

3.5.2.1 <u>Purge Water Containment and Disposal (Historically Low Tritium Water)</u>

A total of 49,096 gallons of purge water from wells with historically low levels of H-3 was generated as a result of the Phase I and Phase II sampling events. This purge water was temporarily stored onsite in double-walled 16,000-gallon fractionalization tanks located in Area IV at Building 4011.

The purge water was removed from the site over an eight work day period between July 25, 2011, and August 3, 2011. The purge water was transported by Veolia Environmental Services (a licensed hauler) and taken to Siemens Industry Incorporated located in Vernon,

California, for disposal as F-Listed hazardous waste based on historical concentrations of trichloroethene in groundwater and in accordance with Appendix J of the Site Management Plan (HGL, 2010e). The Siemens Verona facility is a licensed waste water treatment plant and is USEPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Off Site Rule certified.

3.5.2.2 Containment and Evaporation of Purge Water with Historically Elevated Levels of Tritium

Purge water collected from the wells with historically elevated tritium levels was temporarily stored onsite within Area IV at Building 4015. The potentially tritiated purge water was stored in three 300-gallon polyethylene tanks, which were contained within a lined roll-off bin, used as a secondary containment.

Approximately 800 gallons of purge water was evaporated onsite from July 29, 2011, through September 22, 2011. Before evaporation activities began, the USEPA-approved Clean Air Act Assessment Package-1988 (CAP88-PC) computer model was utilized to estimate potential off-site exposure (USEPA, 1988). The Nuclear Regulatory Commission and State of California allows individual exposures of 100 millirems per year (mrem/y). The dose calculated by the CAP88-PC model was 1.11E-08 mrem/y, which is over a billion times lower than this regulatory limit.

The evaporation basins were located at Building 4011, and consisted of ten 5-foot diameter plastic pools that were placed within a secondary containment consisting of an 80 mil plastic portable basin. Once the tritium water had completely evaporated, the pools were then scanned with a Ludlum 2241-3 meter and Geiger Mueller detector to ensure no elevated levels of radiological material were present, and then disposed of at the HGL/USEPA office Building 204.

3.5.3 Management of Equipment Decontamination Water

Approximately 150 gallons of equipment decontamination water was stored in a 300-gallon polyethylene tank located at Building 4011. The decontamination water was disposed of as F-listed waste along with the purge water from wells with historically low levels of H-3.

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4.0 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The groundwater data acquired were subject to rigorous QA/QC requirements described in the QAPP (HGL, 2010b) and the Laboratory-Specific QAPP Addendum (HGL, 2010c). The results of the QA/QC assessment are presented in this section followed by presentation of the data and a summary of results, the following details groundwater analytical evaluation and results.

This section describes the QA/QC program used during for the groundwater sampling activities. The data QA/QC procedures are detailed in the QAPP (HGL, 2010b). The field QC samples collected during sampling events are presented in Table 3.8; this table also identifies the analyses performed on each sample.

4.1.1 FIELD QUALITY CONTROL

All field sampling was performed in accordance with the procedures outlined in the Phase I FSP (HGL, 2010a). The FSP specifies collecting field QC samples that can be used to assess whether the analytical data were affected by the sampling process. The field QC samples included field duplicates and equipment blanks as described below. A summary of the QC samples, including the number of each type collected during the sampling activities, is included in Table 3.8.

In addition to the QC samples, other field procedures to promote QC were followed. Sampling documentation was performed in the field to ensure that sample labeling, chain-of-custodies, and requests for analysis were in agreement and traceable back to the correct field sample. Custody seals were placed on each cooler before being shipped by an overnight carrier.

4.1.1.1 <u>Evaluation of Field Duplicate Samples</u>

Field duplicate groundwater samples were collected at a frequency of 1 per 20 samples (5 percent). A total of seven field duplicate groundwater samples were collected during the Phase I sampling event. The field duplicate evaluation criterion includes an additional 1σ uncertainty factor of 10 percent to allow for heterogeneity of co-located, but non-homogenized, field samples.

The comparability of a field duplicate result to that of the original sample is assessed by evaluating the duplicate Z-score comparison (Z_{DUP}). The Z-score is a statistical test that indicates how many standard deviations an observation is from the expected value. The Z-score is defined in the QAPP (HGL, 2010b), and the Z_{DUP} is calculated as:

$$Z_{DUP} = \frac{|X_s - X_d|}{\sqrt{{u_s}^2 + {u_d}^2}}$$

where:

Xs = activity of the sample
Xd = activity of the duplicate

u_s = combined standard (1σ) uncertainty of the sample
u_d = combined standard (1σ) uncertainty of the duplicate

Higher Z_{DUP} scores indicate greater disparity between the sample and the duplicate results. A Z_{DUP} score of 2.0, for example, indicates that the duplicate result differs from the sample result by twice the overall uncertainty of the two results. By extension, a Z_{DUP} score of 1.96 (the warning level) indicates that the two results are statistically equivalent, at the 95 percent confidence interval. A Z_{DUP} score of 2.58 (the exceedance level) indicates that the two results are statistically equivalent, at the 99 percent confidence interval.

A Z_{DUP} evaluation is performed on each paired set of analytes for which parent and duplicate data are reported.

Phase I field duplicate groundwater sample data includes 1,158 results from 579 sample/duplicate pairs. Those results included several analytes which were subsequently removed from consideration, and thus were not evaluated. In addition, any results that were rejected by data validation were removed from consideration. Finally, analytes that are simply inferred from previously reported results, such as barium (Ba)-137m, which is inferred from the reported Cs-137 results, are considered redundant and have also been removed from consideration.

The Z_{DUP} evaluation of the remaining 439 qualified pairs follows:

- 417 results (95.0 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Eight results (1.8 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- 14 results (3.2 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

The Z_{DUP} statistical test predicts that, in a homogeneous sample/duplicate pairing, 4 percent of reported Z_{DUP} scores (approximately 14 results in this Z_{DUP} set) will be in the warning range between 1.96 and 2.58. In addition, 1 percent (approximately four results in this Z_{DUP} set) are expected to exceed a Z_{DUP} score of 2.58.

A careful review of the Z_{DUP} warnings and exceedances results in the following observations regarding the collection and analysis of field duplicate groundwater samples:

- Eight of the 14 exceedances, i.e. Z_{DUP} scores at or above 2.58, and one of the warnings are associated with the sample/duplicate pair SMRD-096-GW081910/SMDUP-01-GW081910. The exceedances include Z_{DUP} scores as high as 10.9.

All of these Z_{DUP} comparisons show the sample SMRD-096-GW081910 concentration to be significantly and consistently higher than the duplicate SMDUP-01-GW081910 concentration.

In addition, all nine Z_{DUP} scores are associated with either isotopic uranium results, or the gross alpha/beta screening results, which are expected to be closely correlated to the isotopic uranium results. The isotopic uranium results indicate naturally occurring uranium, with no indication of anthropogenic enriched or depleted uranium present.

The number and magnitude of Z_{DUP} scores may be reasonably attributable to heterogeneity in the groundwater samples, with significant variability in the water quality, including mineral content, from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.

- The six remaining exceedances, which have Z_{DUP} scores between 2.66 and 7.57, are also attributable to naturally occurring radionuclides commonly expected in groundwater, or the correlated gross alpha/beta screening results. As discussed above, these excursions may be reasonably attributable to heterogeneity in the groundwater samples from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.
- The seven remaining Z_{DUP} scores in the warning range, between 1.96 and 2.58, are well within the expected frequency and do not appear to represent a data quality excursion.

The overall frequency and magnitude of the field duplicate Z_{DUP} scores may indicate a degree of inhomogeneity in the groundwater samples that has not otherwise been accounted for in the assessment. In addition, a small underestimate in the laboratory's reported uncertainty values is possible and may contribute to the observed excursions. The above comments notwithstanding, the frequency and magnitude of the Z_{DUP} excursions are not believed to indicate significant concerns regarding the quality or usability of the data. A summary of the parent and associated field duplicate sample results is provided Table 4.1.

Phase II field duplicate groundwater sample data includes 1,616 results from 808 sample/duplicate pairs. Those results included several analytes which were subsequently removed from consideration, and thus were not evaluated. In addition, any results that were rejected by data validation were removed from consideration. Finally, analytes that are simply inferred from previously reported results, such as Ba-137m, which is inferred from the reported Cs-137 results, are considered redundant and have also been removed from consideration.

The Z_{DUP} evaluation of the remaining 619 qualified pairs follows:

- 597 results (96.4 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- 10 results (1.6 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;

- 12 results (1.9 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

The Z_{DUP} statistical test predicts that, in a homogeneous sample/duplicate pairing, 4 percent of reported Z_{DUP} scores (approximately 25 results in this Z_{DUP} set) will be in the warning range between 1.96 and 2.58. In addition, 1 percent (approximately 6 results in this Z_{DUP} set) are expected to exceed a Z_{DUP} score of 2.58.

A review of the Z_{DUP} warnings and exceedances has been conducted and the following observations are made regarding the collection and analysis of field duplicate groundwater samples:

- The highest exceedance, i.e. Z_{DUP} score at or above 2.58, is related to a Sr-90 result with a Z_{DUP} score of 15.66. This result is related to the sample/duplicate pair SMRD-19-GW031711/ SMDUP-01-GW031711Q. A careful review of the associated laboratory and validation reports does not indicate any observable data quality issues or laboratory errors that might account for the significant discrepancy. Barring re-sampling and confirmatory analysis, it may be concluded that the elevated Z-score reflects a degree of heterogeneity in the well water that has not been otherwise accounted for in the Z_{DUP} assessment (i.e. the degree of heterogeneity in the co-located, but non-homogenized, field samples exceeds that of a homogenized laboratory sample by significantly more that the estimated 10 percent).
- The 11 remaining exceedances are at or below 6.01 and, with a single exception discussed below, are derived from the results for either naturally occurring radionuclides or the gross alpha/beta screening results, which are expected to be closely correlated to the naturally occurring radioactivity concentrations. These Z_{DUP} results appear to be consistent with the previous Phase I observations, and are likely to be attributable to variability in the water quality, including mineral content, from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.
- It is noted that one of the 11 Z_{DUP} results above 2.58 is for Cm-243/244 in the sample/duplicate pair SMRD-19-GW031711/ SMDUP-01-GW031711Q, with a Z_{DUP} score of 2.94. In this case, the activity of the field duplicate is below the critical value (L_C) and is considered a non-detect, whereas the activity for the parent sample is above the L_C value, but below the associated minimum detectable concentration. A review of the spectral quality shows discernible activity in the expected region of interest, and there is no indication that the result is due to laboratory error or other data quality discrepancies.
- The 10 Z_{DUP} scores in the warning range, between 1.96 and 2.58, are well within the expected frequency and do not appear to represent a data quality excursion.

The overall frequency and magnitude of the field duplicate Z_{DUP} scores may indicate a degree of heterogeneity in the groundwater samples that has not otherwise been accounted for in the

assessment. It is also possible that a small underestimate in the laboratory's reported uncertainty values is possible, and may contribute to the observed excursions. The above comments notwithstanding, the frequency and magnitude of the Z_{DUP} excursions are not believed to indicate significant concerns regarding the quality or usability of the data. A summary of the parent and associated field duplicate sample results is provided Table 4.2.

4.1.1.2 Evaluation of Equipment Blanks

Equipment rinsate blanks were collected at a frequency of one per day, for each type of sampling equipment used per field team. Equipment rinsate blanks were collected in accordance with the Phase I FSP (HGL, 2010a) and the QAPP (HGL, 2010b). A total of 13 rinsate and 13 source water samples were collected during the Phase I groundwater sampling event. Each sample was tested for isotopic uranium, as a surrogate indicator of cross-contamination. The laboratory's reported results for thorium-231 are inferred directly from the reported U-235 results. Those redundant evaluations, as well as any results that are rejected for laboratory quality reasons, have been removed from consideration, as in the evaluation of field duplicate samples, above. Rinsate and source water samples were also analyzed for H-3 if it was included in the analytical suite for samples collected that day.

In some cases, the laboratory reports individual results for the dissolved (filtered) and suspended phases of the equipment blank samples. In other cases, the samples were analyzed as-received and the Total activity is reported. For equipment blanks, filtration was not required prior to analysis and either analytical approach is acceptable.

Phase I rinsate and source water samples include 308 total results, from which 88 data pairs were evaluated by Z-score duplicate comparison. The Z_{DUP} scores are summarized below.

- 84 results (95.5 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Four results (4.5 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- Zero results (0.0 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

As with the field duplicates, the Z_{DUP} statistical test predicts that approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. The four results in that warning range are within the expected frequency. It is noted that two of those results have rinsate water results less than the associated source water results, which indicates that there is no significant concern of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.

The overall evaluation of equipment blank results indicates that the decontamination of the field sampling equipment is acceptable and that there is no evidence of sample cross-contamination from the sampling equipment that would adversely affect the quality or usability of the reported

field sample data. A summary of Phase I rinsate and source equipment blank sample results is provided on Table 4.3.

Phase II rinsate and source water samples include 339 total results, from which 122 data pairs were evaluated by Z-score duplicate comparison. The Z_{DUP} scores are summarized below.

- 112 results (91.8 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Four results (3.3 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- Six results (4.9 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

As with the field duplicates, the Z_{DUP} statistical test predicts that approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. The four results in that warning range are within the expected frequency.

A review of the six Z_{DUP} exceedances, with Z_{DUP} scores above 2.58 and up to 5.32, shows that all are related to U-234.

- In three of those cases, the equipment source water activity is higher than the associated rinsate water activity, which indicates that there is no significant concern of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.
- In the case of the other three Z_{DUP} scores, which resulted from rinsate water activity higher than the associated source water activity, the spectral data shows anomalous activity in the spectral region associated with U-234, with no corresponding activity for U-238, as would be expected in the case of equipment contamination or sample cross-contamination. The presence of uranium in only naturally occurring ratios (i.e. U-234 approximately equal to U-238) in all samples associated with these Z_{DUP} pairs is confirmed by an additional review of the spectroscopic data.
- The Z_{DUP} excursions are believed to be related to laboratory issues related to the separation and measurement of isotopic uranium. These issues have been identified in data validation and laboratory audits and have been appropriately addressed by the laboratory. The impact of those issues on the quality and usability of the field sample data is addressed in the individual validation reports, and includes a potential underestimate in the reported uncertainty and detection limit values for specific results. For the purpose of evaluating the efficacy of field decontamination practices, however, the results do not provide any indication of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.

The overall evaluation of equipment blank results indicates that the decontamination of the field sampling equipment is acceptable and that there is no evidence of sample cross-contamination

from the sampling equipment that would adversely affect the quality or usability of the reported field sample data. A summary of Phase I rinsate and source equipment blank sample results is provided on Table 4.4.

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5.0 SUMMARY OF GROUNDWATER RESULTS

5.1 GROUNDWATER ELEVATIONS

The groundwater elevations measured for wells during the Phase I and II investigations are presented on Figures 5.1 through 5.6 and are provided in Appendix B. It has been demonstrated that groundwater data in Area IV cannot be used independently of other information (such as seep elevations, hydrogeologic, and structural boundaries, well pumping information) to estimate potentiometric conditions. Furthermore, elevations in open boreholes represent composite heads as opposed to heads from discrete elevations in the Chatsworth Formation as is acquired from FLUTe™ wells. Formulation of estimated potentiometric conditions is beyond the intended scope of the groundwater sampling events and are not presented.

5.2 GROUNDWATER ANALYTICAL RESULTS

All samples were sent to TAL radiological operations facility in Earth City, Missouri. Samples were prepared and analyzed in accordance with the specifications outlined in the QAPP (HGL, 2010b), and the Laboratory-Specific QAPP Addendum (HGL, 2010c). Analytical results for the samples collected during the Phase I and Phase II sampling events were reported as filtered, suspended and total. Filtered results are those that were filtered at the lab prior to analysis. Suspended results are those for solids that were retained by the filter. Total results are a summation of the filtered concentration and the suspended concentration (converted to a volumetric activity based on the filtrate volume). Analytical results for Phase I and Phase II sampling events are presented in Appendix D.

Phase I H-3 results are reported as "filtered" and represent the filtrate portion of the sample. These results are taken to be representative of the "total" H-3 activity and are accepted without further qualification, in that regard. Phase II H-3 samples were analyzed without filtration and were reported by the laboratory as "total" results. The Phase I "filtered" results and the Phase II "total" results are believed to be equivalent and both are believed to represent comparable total H-3 activity results in a groundwater sample.

5.2.1 Phase I Groundwater Sampling Event (August - September 2010)

During the Phase I Groundwater Sampling Event, performed in August through September 2010, samples were collected from 68 wells as summarized on Table 3.4. A summary of the analytical results is discussed in the following subsections. Table 5.1 presents the analytical results that exceed the MCL and Table 5.2 presents the results for detected anthropogenic radionuclides. Figure 5.7 illustrates the locations of all wells with radionuclide concentrations exceeding the MCLs. Figure 5.8 illustrates the well locations where tritium was detected. All analytical results for the Phase I sampling event are presented in Table D.1. Samples were submitted and filtered by the laboratory and reported as filtered (aqueous) and total (aqueous and suspended fractions).

5.2.1.1 Shallow Wells

During the Phase I sampling event, 22 shallow wells, screened in the near-surface groundwater, were sampled. The depth to groundwater in these shallow wells ranged from 11.80 feet (RS-18) to 78.53 feet (PZ-151) below top of casing. No radionuclides were detected in the shallow wells at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related. Anthropogenic radionuclides detected in the shallow wells sampled during the Phase I event are presented on Table 5.2. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase I sampling are summarized below.

- Tritium was detected in wells PZ-056 and ES-031 at concentrations of 75 pCi/L and 88 pCi/L, respectively (Figure 5.8).
- Strontium-90 was detected in the filtered samples collected from well RS-18 at a concentration of 0.06 pCi/L.

5.2.1.2 Bedrock Wells

During the Phase I sampling event, 46 bedrock wells screened in the Chatsworth Formation, were sampled as summarized on Table 3.4. The depth to groundwater in these wells ranged from 10.73 feet (RD-34C) to 317.51 feet (RD-56A) below top of casing (Figure 5.2).

Gross beta (filtered) activity was detected in the groundwater sample collected from bedrock well location RD-86 at a concentration of 206 pCi/L, which exceeds the MCL of 50 pCi/L. The total gross beta activity was also 206 pCi/L (Figure 5.7).

Tritium was detected in groundwater samples collected from three bedrock wells (RD-88, RD-90 and RD-95) at concentrations exceeding the MCL of 20,000 pCi/L. The total H-3 activity reported for wells RD-88, RD-90 and RD-95 were 44,800 pCi/L, 41,000 pCi/L, and 59,700 pCi/L, respectively (Figure 5.8).

No other radionuclides were detected at concentrations greater than the MCLs in the bedrock wells sampled during the Phase I sampling event.

Anthropogenic radionuclides detected in the bedrock wells sampled during the Phase I event are presented on Table 5.2. Some of the potential site related anthropogenic radionuclides detected in the bedrock wells during Phase I sampling are summarized below.

- Tritium was detected at concentrations from 75 pCi/L to 59,700 pCi/L in groundwater samples collected from 11 bedrock wells (Figure 5.8). As described above, three of these wells had H-3 concentrations exceeding the MCL.
- Strontium-90 (filtered) was detected at concentrations from 0.097 to 7.00 pCi/L in samples collected from bedrock wells RD-54B and RD-98, respectively.

- Plutonium-238 (filtered) was detected at a concentration of 0.054 pCi/L in one sample collected from bedrock well RD-17.
- Plutonium-239/240 (filtered) was detected at a concentration of 0.0086 pCi/L in one sample collected from bedrock well RD-29.
- Cesium-137 (filtered) was detected at concentrations from 0.61 to 1.51 pCi/L in the sample collected from bedrock wells RD-07, RD-57, RD-63, and WS-07.
- Curium-245/246 (filtered) was detected at concentrations from 0.0132 to 0.028 pCi/L in the samples collected from bedrock wells RD-13, RD-29, RD-33B, RD-56B, and RD-98.

5.2.2 Phase II Groundwater Sampling Event (March - April 2011)

During the Phase II Groundwater Event, performed in March through April 2011, samples were collected from 93 wells as summarized on Table 3.5. A summary of the analytical results is discussed in the following subsections. Table 5.1 presents the analytical results that exceed the MCL and Table 5.3 presents the results for detected anthropogenic radionuclides. Figure 5.9 illustrates the locations of all wells sampled during Phase II with radionuclide concentrations exceeding the MCLs. Figure 5.11 illustrates the well locations where H-3 was detected during the Phase II sampling. All analytical results for the Phase II sampling event are presented in Table D.2.

5.2.2.1 <u>Shallow Wells</u>

During the Phase II sampling event, 35 shallow wells screened in the near-surface groundwater were sampled. The depth to groundwater in these wells ranged from 4.67 feet (RS-18), to 77.79 feet (PZ-151) below top of casing (Figure 5.5). Gross beta, adjusted gross alpha, U-233/U-234, and U-238 were the only radionuclides detected at concentrations exceeding the MCLs.

Adjusted gross alpha activity was reported above the MCL (15 pCi/L) in the total and filtered samples collected from shallow well locations PZ-105, RS-23, and RS-27. Adjusted gross alpha activity was reported in well PZ-105 (total) at a concentration of 18.6 pCi/L, in well RS-23 (filtered and total) at concentrations of 72.2 and 213.7 pCi/L, respectively, and in well RS-27 (total) at a concentration of 37.3 pCi/L.

Gross beta activity was reported above the MCL (50 pCi/L) in the total samples collected from shallow well locations RS-23, and RS-27, at concentrations of 313 pCi/L, and 93.5 pCi/L, respectively (Figure 5.9). Analysis of the suspended fraction for these samples detected gross beta activities of 281 pCi/L in RS-23 and 73.4 pCi/L in RS-27. The activities of the suspended samples are similar to those in the total sample indicating that the exceedance of the MCL is due to the high level of suspended solids. Additionally, the gross beta activity for the filtered samples was significantly less than the total activities and less than the MCL.

Three shallow wells contained U-233/U-234 (filtered) and U-238 (filtered) above the MCL of 20 pCi/L. Uranium-233/U-234 was detected at concentrations of 23.9 pCi/L in well PZ-116,

36.7 pCi/L in well PZ-124, and 30.9 pCi/L in well RS-11. Uranium-238 was detected at concentrations of 22.9 pCi/L, 35.6 pCi/L, and 28.1 pCi/L, in shallow wells PZ-116, PZ-124, and RS-11, respectively (Figure 5.9). The ratio of U-233/U-234 to U-238 range between 1.03 and 1.09 which is indicative of naturally occurring conditions. Additionally, the ratio of U-235 to U-238 range between 0.049 and 0.05 also suggests naturally occurring conditions.

No other radionuclides were detected at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related. Anthropogenic radionuclides detected in the shallow wells sampled during the Phase II event are presented on Table 5.3. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase II sampling are summarized below.

- Strontium-90 was detected at concentrations from 0.041 to 0.105 pCi/L in the filtered samples collected from shallow wells PZ-105, PZ-109, RS-18, RS-27, PZ-116, PZ-120, PZ-121, and PZ-122.
- Cesium-137 (filtered) was detected at a concentration of 0.71 pCi/L in the sample collected from well PZ-005.
- Tritium was detected at concentrations from 69 pCi/L to 119 pCi/L in the total samples collected from shallow wells ES-31, PZ-112, PZ-041, and PZ-116.

5.2.2.2 Bedrock Wells

During the Phase II sampling event, 46 bedrock wells screened in the Chatsworth Formation were sampled as summarized on Table 3.5. The depth to groundwater in these wells ranged from 10.43 feet (RD-34C) to 314.01 feet (RD-56A) below top of casing.

Gross beta activity (total) was detected at a concentration of 149 (total) pCi/L in the groundwater sample collected from bedrock well location RD-93. Analysis of the suspended fraction of this sample detected gross beta activity of 135 pCi/L and the filtered sample contained 14 pCi/L indicating that this exceedance of the MCL is due to high levels of suspended solids.

Strontium-90 (filtered) was detected in well RD-98 at a concentration of 183 pCi/L, which exceeds the MCL 8 pCi/L.

Tritium was detected at concentrations of 54,900 pCi/L and 49,900 pCi/L in groundwater samples collected from bedrock wells RD-90 and RD-95, respectively. These concentrations exceed the 20,000 pCi/L MCL for H-3 (Figure 5.11).

No other radionuclides were detected at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related.

Anthropogenic radionuclides detected in the shallow wells sampled during the Phase II event are presented on Table 5.3. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase II sampling are summarized below.

- Tritium was detected in 11 bedrock wells (RD-34A, RD-34B, RD-34C, RD-63, RD-64, RD-87, RD-88, RD-90, RD-93, RD-94, and RD-95) at concentrations from 33 pCi/L to 54,900 pCi/L during the Phase II sampling event. As described above two of these wells exceeded the MCL for H-3 (Figure 5.11).
- Strontium-90 (filtered) was detected in 13 bedrock wells at concentrations from 0.011 to 183 pCi/L. As described above only one well contained Sr-90 at a concentration exceeding the MCL.
- Cobalt-60 filtered was detected at a concentration of 0.51 pCi/L in bedrock well RD-07.
- Cesium-134 (filtered) was detected at concentrations from 0.46 to 0.71 pCi/L in bedrock wells RD-15 and RD-86. Two of the values were flagged with a "K" indicating that the reported values may be biased high and the actual value is expected to be lower.
- Cesium-137 (filtered) was detected at concentrations from 0.53 to 0.82 pCi/L in bedrock wells RD-27, RD-85 and RD-94.
- Curium-243/244 (filtered) was detected at concentrations from 0.0116 to 0.0275 pCi/L in bedrock wells RD-19, RD-56B.
- Curium-245/246 (filtered) was detected in eight bedrock wells (RD-19, RD-29, RD-33B, RD-56B, RD-86, RD-95, RD-97, and RD-98) at concentrations from 0.009 to 0.0234 pCi/L. With the exception of the sample collected from RD-95 all of these analyses were J flagged indicating that these are estimated values.
- Americium-241 (filtered) was detected at concentrations from 0.0022 to 0.0257 pCi/L in bedrock wells RD-13, RD-19, RD-29, RD-33B, RD-95, and RD-97.

5.2.2.3 Off-Site Wells

Twelve off-site wells (OS-2, OS-3, OS-4, OS-9, OS-9R, OS-10, RD-59A, RD-59B, RD-59C, RD-68A, RD-68B, and WS-09) were sampled during the Phase II sampling event.

Adjusted gross alpha activity was reported above the MCL (15 pCi/L) in the total fraction of the sample collected from well OS-10 at a concentration of 129 pCi/L. The filtered fraction (water only) of the sample had an adjusted concentration of 0.758 pCi/L. The suspended fraction (solids only) contained a concentration of 128.7 pCi/L (Figure 5.10).

Gross beta radiation also was reported above the MCL of 50 pCi/L in the total fraction of the sample collected at off-site well location OS-10, with a concentration of 145 pCi/L. The filtered fraction of the sample contained a concentration of 6.15 pCi/L, and the suspended fraction contained a concentration of 139 pCi/L (Figure 5.10).

OS-10 is an artesian well which at the time of sampling was not flowing. The sample collected was from ponded water associated with the well. The sample contained a high amount of sediment (solids) and the turbidity was 5,999 NTUs. An NTU of 50 is desired and an NTU of 10 is optimal (HGL, 2010). The elevated levels of suspended and total gross alpha and beta are attributed to the very high turbidity of the sample and is considered to be a result of naturally occurring radionuclides.

No other radionuclides were detected at concentrations greater than the MCL in any of the off-site wells sampled.

Anthropogenic radionuclides detected in the off-site wells sampled during the Phase II event and are presented on Table 5.3 and include the following:

- Strontium-90 (filtered) was detected at 0.079 pCi/L in off-site well OS-10.
- Tritium was detected at 110 pCi/L in off-site well RD-59A (Figure 5.10).

5.2.2.4 Wells Not Previously Sampled

A review of wells historically sampled for radionuclides was conducted, and according to MWH, radionuclides have been sampled for in 160 wells across the SSFL site since 1989 (MWH, 2009). The following wells sampled by USEPA are not shown in The Boeing Company database as having been sampled previously for radionuclides.

PZ-005	PZ-102	PZ-112	PZ-150
PZ-041	PZ-103	PZ-113	PZ-151
PZ-055	PZ-105	PZ-114	PZ-160
PZ-056	PZ-106	PZ-120	PZ-161
PZ-098	PZ-108	PZ-121	RS-23
PZ-100	PZ-109	PZ-124	

Specifically, in the Area IV study area, with the exception of piezometer wells PZ-101, PZ-107, PZ-111, and PZ-116, only the piezometer wells have not previously been sampled for radionuclides. During 2010 and 2011 The Boeing Company did not collect samples from these wells for radionuclide analysis.

Anthropogenic radionuclides were detected in these wells are summarized below.

- Strontium-90 (filtered) was detected at concentrations from 0.041 to 0.06 pCi/L in wells PZ-105, PZ-109, PZ-120, PZ-121, PZ-150, and RS-18.
- Tritium was detected at concentrations from 33 to 75 pCi/L in wells PZ-005, PZ-056, PZ-114, PZ-150, and PZ-156.
- Cesium-137 (filtered) was detected at 0.71 pCi/L in well PZ-005.

In addition, during the Phase I and Phase II sampling events, the following piezometer wells contained radionuclides above the MCLs:

- PZ-105 (adjusted gross alpha Phase II),
- PZ-116 (U-233/U-234 and U-238 in Phase II only, as they were dry during Phase I),
- PZ-124 (U-233/U-234 and U-238 in Phase II only, as they were dry during Phase I),
- RS-23 (adjusted gross alpha and gross beta in Phase II only, as they were dry during Phase I).

As mentioned above, of the piezometer wells with radionuclides above the MCLs, only well PZ-116 has previously been sampled for radionuclides.

5.2.3 Screening Samples

At well locations where extremely slow recharge was anticipated or where the water column was less than 3 feet groundwater samples were collected prior to purging in case the wells were purged dry, and did not recover. These samples were reserved for possible analysis if there was inadequate recovery in the wells after purging and were designated screening samples. Six screening samples were collected during the Phase I sampling event and five screening samples were collected during the Phase II sampling event as shown on the following table.

Piezometer/ Well Number	Sample Identification	Analytes Tested
Phase I Sampling		
PZ-056	SMPZ-056-GW082410	H-3
PZ-114	SMPZ-114-GW082410	H-3
PZ-150	SMPZ150-GW082410	H-3, Gamma Spec, Sr-90, Iso-U
PZ-151	SMPZ-151-GW090110	H-3
PZ-160	SMPZ-160-GW082410	Priority 1
RS-18	SMRS-18-GW082310	Priority 1
Phase II Sampling		
PZ-055	SMPZ-055-GW033111	H-3
PZ-114	SMPZ-114-GW032811	H-3, Gamma Spec
PZ-151	SMPZ-151-GW032811	H-3, Gamma Spec
RS-23	SMRS-23-GW033011	Priority 1
RS-27	SMRS-27-GW033011	Priority 1

The analytical data from these analyses is not representative of formation water; however, the resulting data was evaluated for the presence of gross contamination which may indicate potential impacts to the groundwater at these locations. No indications of gross contamination were noted in the analytical results for these samples; however, numerous anthropogenic radionuclides were detected at low concentrations. All analytical data results are presented in Appendix D.

5.3 COMPARISON OF USEPA DATA TO THE BOEING COMPANY DATA

Comparability between The Boeing Company sample results and the HGL sample results are determined by the Z_{DUP}, as defined in the QAPP (HGL, 2010b). The reported uncertainty in The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval. The following Z_{DUP} assessments are based on that assumption.

Sample results that have been rejected, including all HGL results for barium-133, are not included in the evaluation. Similarly, results were not included in this evaluation unless both The Boeing Company and HGL have provided results for a given analyte at a sampling location.

The Phase I comparison consisted of 16 sample locations, from which sample volumes were collected simultaneously, except for three locations, for which The Boeing Company sampling event and the HGL sampling event were separated by one to 78 days, depending on the location. The data used in the comparison is presented in Table D.3. The Boeing data was taken from Boeing's 2010 Report on Annual Groundwater Monitoring (MWH, 2011a).

The Phase I results indicate a generally favorable comparison between The Boeing Company results and the HGL results, with the following significant exceptions:

- There appears to be a general bias, particularly in the dissolved sample fractions, in which the HGL result is higher than the Boeing result. This bias is particularly evident in those results for which measurable activity is consistently reported, such as gross alpha, gross beta, and isotopic uranium, but may affect other analytes as well. The source of the bias is not conclusively determined, but may be related to differences in the sample pre-treatment procedures such as filtering and preservation, employed by the two different laboratories that produced the data.
- Regardless of the root cause of the apparent bias, it should also be recognized that the gross alpha and gross beta results are intended as gross screening measurements and are subject to considerable uncertainty, beyond the analytical uncertainty reported by either laboratory. This may generally be considered a method limitation and undue reliance on the precision or accuracy of gross alpha or gross beta measurement results should be discouraged.
- It should be generally recognized that the rest of the reported results, either for The Boeing Company, for HGL, or both, may be subject to a minor underestimate of the reported uncertainty. Uncertainty reporting is very much a laboratory-specific issue and there is likely to be little uniformity in different laboratories' assessment of the contributing sources of uncertainty and their associated magnitudes.

The Phase II comparison consists of 19 sample locations, from which sample volumes were not collected simultaneously. The Boeing Company samples were collected in January, 2011 and the HGL samples were collected in March and April, 2011. The data used in the comparison

is presented in Table D.4. The Boeing data was taken from Boeing's 2011 Report on Annual Groundwater Monitoring (MWH, 2011b).

The Phase II results, while being generally favorable, are subject to the following considerations:

- As with the Phase I results, there may be a general bias in the dissolved fraction analyses, with HGL reporting higher results than Boeing.
- As with the Phase I results, the inherent uncertainty in the gross alpha and gross beta methodologies should be recognized and the use of those results for assessing the data quality or making analytical decisions should be generally avoided.
- Also similar to the Phase I assessment, the potential general under-reporting of method uncertainty should be recognized and considered in the use of the data.
- The most significant issue in the Phase II assessment, however, may be the collection of samples over an extended period of time. This sampling practice contributes a degree of uncertainty to the evaluation that may be significant and is likely impossible to indentify without actual split sample analyses, as in Phase I.

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6.0 SUMMARY AND CONCLUSIONS

USEPA was tasked to conduct two phases of groundwater sampling events from wells located in ETEC Area IV, NBZ, and at off-site locations. The two groundwater sampling events represented a dry (summer) period and a wet period. Phase I sampling was performed in August and September 2010 and consisted of sampling 68 wells. Phase II sampling was performed in March and April 2011 and consisted of sampling 93 wells.

The analytical results from both phases of sampling identified gross alpha, gross beta, U-233/234, U-238, Sr-90, and H-3 at concentrations exceeding the MCLs. The gross alpha, gross beta, U-233/234, and U-238 concentrations appear to be attributed to suspended solids; thus, do not reflect actual exceedances of the MCLs. Strontium-90 was detected at concentrations exceeding the MCL in the groundwater sample collected from well RD-98 immediately downgradient of the RMHF and in the vicinity of a former septic tank system. Tritium was detected at concentrations exceeding the MCL in three wells immediately north of the former Building 4010. In general, recently collected Boeing groundwater data correlated closely to the USEPA data with a few minor exceptions relating to gross alpha and gross beta analyses, and method uncertainty.

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TABLES

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Table 3.1
Radionuclides Analyzed
Groundwater Sampling

Symbol	Radionuclide	Half-Life[1]	Units	Priority 1 Groundwater Analytes	Priority 2 Groundwater Analytes
Ac-227	actinium-227	21.772	Years	●	
Ac-228	actinium-228	6.15	Hours	●	
Ag-108	silver-108	2.37	Minutes	●	
Ag-108m	silver 108m	418	Years	●	
Am-241	americium-241	432.6	Years		●
Am-243	americium-243	7,370	Years	●	
Ba-133	barium-133	10.5	Years	●	
Ba-137m	barium-137m	2.552	Minutes	●	
Bi-212	bismuth-212	60.55	Minutes	●	
Bi-214	bismuth-214	19.9	Minutes	●	
C-14	carbon-14	5,700	Years		●
Cd-113m	cadmium-113m	14.1	Years	●	
Cf-249	californium-249	351	Years	●	
Cm-243	curium-243	29.1	Years		●
Cm-244	curium-244	18.1	Years		●
Cm-245	curium-245	8,500	Years		●
Cm-246	curium-246	4,760	Years		●
Co-60	cobalt-60	5.275	Years	●	
Cs-134	cesium-134	2.0652	Years	●	
Cs-137	cesium-137	30.08	Years	●	
Eu-152	europium-152	13.537	Years	●	
Eu-154	europium-154	8.593	Years	●	
Eu-155	europium-155	4.753	Years	●	
H-3	tritium (hydrogen-3), organic	12.32	Years	●	
Ho-166m	holmium-166m	1,230	Years	●	
I-129	iodine-129	1.57E+07	Years		●
K-40	potassium-40	1.25E+09	Years	●	
Na-22	sodium-22	2.6027	Years	●	
Nb-94	niobium-94	2.03E+04	Years	●	
Np-236a	neptunium-236a	1.53E+05	Years	●	
Np-237	neptunium-237	2.14E+06	Years		●
Np-239	neptunium-239	2.356	Days	●	
Pa-231	protactinium-231	32,760	Years	●	
Pb-212	lead-212	10.64	Days	●	
Pb-214	lead-214	26.8	Minutes	●	
Pu-238	plutonium-238	87.7	Years		●
Pu-239	plutonium-239	24,110	Years		●
Pu-240	plutonium-240	6,563	Years		●
Pu-242	plutonium-242	375,000	Years		●

Table 3.1
Radionuclides Analyzed
Groundwater Sampling

Symbol	Radionuclide	Half-Life[1]	Units	Priority 1 Groundwater Analytes	Priority 2 Groundwater Analytes
Ra-226	radium-226	1,600	Years		●
Sb-125	antimony-125	2.7586	Years	●	
Sn-126	tin-126	2.30E+05	Years	●	
Sr-90	strontium-90	28.8	Years	●	
Tc-99	technetium-99	211,100	Years		●
Te-125m	tellurium-125m	57.4	Days	●	
Th-231	thorium-231	25.52	Hours	●	
Th-234	thorium-234	24.1	Days	●	
Tl-208	thallium-208	3.053	Minutes	●	
Tm-171	thulium-171	1.92	Years	●	
U-233	uranium-233	1.59E+05	Years	●	
U-234	uranium-234	245,500	Years	●	
U-235	uranium-235	7.04E+08	Years	●	
U-236	uranium-236	2.34E+07	Years	●	
U-238	uranium-238	4.47E+09	Years	●	
Gross Alpha Radiation	N/A	NA	N/A	●	
Gross Beta Radiation	N/A	NA	N/A	●	

Notes:
[1]Those radionuclides with short half-lives (i.e., less than two years) are either NORM radionuclides and are present because they are in secular equilibrium with much longer-lived parent radionuclides, (e.g.; Ac-228), or they are related to another radionuclide of interest (e.g.; Ba-137m is a daughter of Cs-137 with a 2.5 minute half-life).
NA - not applicable

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

Well ID	Date	Time	Depth to Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
ES-31	8/24/2010	1204	16.84	500	50,000	6.99	25.62	0.794	95	3.19	24	Flow rate in units of mL/min, volume in mL, conductivity in mS/cm.
PZ-005	8/30/2010	1413	18.33	200	7,650	6.86	22.03	1130	88	3.85	62.9	Flow rate in units of mL/min, volume in mL.
PZ-041	8/27/2010	1155	14.4	50	1,050	7.26	27.47	954	106	1.78	19.6	Flow rate in units of mL/min, volume in mL.
PZ-052	8/30/2010	1401	25.51	50	1,000	7.04	23.10	1229	68	2.27	23.3	Flow rate in units of mL/min, volume in mL. Sampling halted at 1630, and continued the next day.
PZ-052	8/31/2010	1017	25.94	50	1,300	6.84	21.93	1117	87	2.21	8.8	Flow rate in units of mL/min, volume in mL.
PZ-056	8/24/2010	1210	30.04	--	--	--	--	--	--	--	--	Pre-purge sample. Sample was cloudy and gray in color, only Tritium sample was collected. No recharge.
PZ-098	8/31/2010	1236	31.25	50	2,600	6.73	24.35	1288	102	2.09	6	Flow rate in units of mL/min, volume in mL.
PZ-100	8/30/2010	924	12.73	50	1,900	7.16	19.41	1252	85	3.6	13.4	Flow rate in units of mL/min, volume in mL.
PZ-101	8/30/2010	1025	DRY	--	--	--	--	--	--	--	--	Attempted sampling with bailer four times, well dry unable to sample.
PZ-102	8/24/2010	1420	DRY	--	--	--	--	--	--	--	--	Well dry, attempted sampling with bailer.
PZ-103	8/23/2010	1342	27.08	500	28,000	7.27	23.35	1.236	90	4.16	47	Flow rate in units of mL/min, volume in mL, conductivity in mS/cm.
PZ-105	8/26/2010	1432	19.95	50	2,150	7.27	27.98	909	-27	0.31	16	Due to low flow and time constraints, sampling split between two days. Flow rate units in mL/min, volume in mL.
PZ-105	8/27/2010	751	19.55	50	1,400	7.09	23.36	916	190	1.37	3	Due to low flow and time constraints, sampling split between two days. Flow rate units in mL/min, volume in mL.
PZ-106	8/26/2010	1101	18.02	100	5,875	6.97	22.91	892	43	0.35	1	Flow rate in units of mL/min, volume in mL.
PZ-108	8/27/2010	808	13.69	75	1,200	7.04	23.16	1094	181	1.4	29.9	Flow rate in units of mL/min, volume in mL.
PZ-109	8/25/2010	1255	17.48	50	2,150	7.57	33.91	1029	53	2.99	44.7	Flow rate in units of mL/min, volume in mL.
PZ-112	8/31/2010	837	29.7	100	2,400	6.25	19.65	1132	131	3.07	13	Flow rate in units of mL/min, volume in mL.
PZ-114	8/24/2010	1100	49.73	--	--	7.07	24.00	1256	276	5.24	2000	Pre-purge sample. Sample was cloudy and gray in color, only Tritium sample was collected. No recharge.
PZ-120	8/27/2010	1022	18.15	50	1,850	7.00	27.02	868	42	0.66	5	Flow rate in units of mL/min, volume in mL.
PZ-122	8/27/2010	1345	17.33	50	1,800	6.74	24.31	1003	89	0.58	9	Flow rate in units of mL/min, volume in mL.
PZ-121	9/1/2010	948	19.02	50	1,400	6.16	28.34	1065	170	1.44	16.4	Flow rate in units of mL/min, volume in mL.
PZ-150	8/24/2010	940	28.1	--	--	7.4	31.07	1438	198	4.3	5	Unable to collect complete sample, no recharge, sample bottle only 75% full. Attempted sample collection next day; no recharge.
PZ-151	9/1/2010	1435	78.93	--	--	6.87	25.07	201	194	2.37	170	Bailer used to collect sample.
PZ-160	8/24/2010	847	26.8	--	--	7.04	25.32	181	80	2.6	1.7	Bailer used to collect sample.
PZ-161	8/25/2010	952	25.8	75	2,025	6.83	26.17	2.5	65	1.91	20	Flow rate in units of mL/min, volume in mL, conductivity in mS/cm.
RD-07	9/1/2010	915	--	--	6.13	--	--	--	--	--	--	FLUTe™ well - sampled from Port #3.
RD-13	8/24/2010	1010	66.65	2	20	7.38	19.85	0.714	69	2.12	90	Well purged dry on 8/23/2010 and sampled 8/24/2010.
RD-14	8/19/2010	1145	82.91	--	--	7.00	25.34	922	73	1.66	132	Well purged dry on 8/18/2010 and sampled 8/19/2010.

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

Well ID	Date	Time	Depth to Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
RD-15	8/26/2010	1502	--	3	629	7.30	20.93	854	-14	2.81	14.3	Obstruction in well, unable to collect depth to water readings.
RD-16	9/1/2010	1230	--	2	920	7.11	21.25	839	-71	0.15	0	Water table too low to collect depth to water readings.
RD-17	8/25/2010	845	32.49	6	30	6.76	20.64	874	192	1.96	41.3	Well purged dry on 8/24/2010 and sampled 8/25/2010.
RD-18	8/19/2010	1100	202.51	--	--	7.29	23.50	568	52	1.7	9.4	Well purged dry on 8/18/2010 and sampled 8/19/2010.
RD-19	8/19/2010	1330	80.14	--	--	6.52	22.78	1600	71	1.57	33	Well purged dry on 8/18/2010 and sampled 8/19/2010.
RD-20	8/26/2010	1026	51.62	7	609	7.29	21.37	1403	5	0.25	24.6	
RD-21	9/9/2010	918	--	--	2.00	6.58	18.20	1.253	185	1.1	13.3	FLUTe™ well - sampled from Port #2, sulfur odor. Parameter readings collected same day as sample. Conductivity units in mS/cm.
RD-22	9/9/2010	929	--	--	--	6.87	18.97	1.448	113	0.59	24	FLUTe™ well - sampled from Port #2. Parameter readings collected same day as sample. Conductivity units in mS/cm.
RD-23	9/2/2010	850	--	--	--	7.11	22.05	0.563	-123	2.13	4.6	FLUTe™ well -sampled from Port #3. Well purged and sampled on 9/1/2010. MWH downloaded parameters 9/2/2010.
RD-24	8/31/2010	1408	121.69	5	610	7.10	21.26	934	-25	0.42	11.1	
RD-27	9/3/2010	810	53.94	--	15	7.23	20.10	601	164	1.06	15	Well purged dry on 9/2/2010 and sampled 9/3/2010.
RD-29	8/31/2010	845	16.31	7	90	7.15	21.76	914	43	5.66	17.5	Well purged on 8/30/2010 (pump stopped working) and sampled 8/31/2010.
RD-33A	8/18/2010	1239	--	--	10	--	--	--	--	--	--	FLUTe™ well - sampled from Port #2.Well purged on 8/17/2010 and sampled 8/18/2010. Parameter readings are not part of BL Hall protocol.
RD-33B	9/2/2010	1220	304.33	--	61	7.43	21.50	744	-153	0.53	0	Well purged on 9/1/2010 and sampled 9/2/2010.
RD-33C	9/3/2010	926	287.73	6	1,202	7.44	24.26	685	-144	0.85	55	Well purged dry on 9/2/2010 and sampled 9/3/2010.
RD-34A	8/20/2010	815	42.05	0.5	10	6.89	23.39	1.251	98	2.12	9	Well purged dry on 8/19/2010 and sampled 8/20/2010. Conductivity units in mS/cm.
RD-34B	8/20/2010	855	44.89	10	100	7.54	20.06	0.96	-70	1.96	19	Well purged dry on 8/19/2010 and sampled 8/20/2010.
RD-34C	8/30/2010	1232	78.55	8	2,194	7.25	21.53	553	-84	0.13	1	
RD-50	8/17/2010	1013	--	--	1.50	--	--	--	--	--	--	FLUTe™ well - sampled from Port #2. Parameter readings are not part of BL Hall protocol.
RD-54A	9/2/2010	810	--	--	--	6.84	22.09	0.817	-161	0.74	6.2	FLUTe™ well - sampled from Port #2 on 9/1/2010. MWH downloaded parameter readings on 9/2/2010. Conductivity units in mS/cm.
RD-54B	8/31/2010	1610	314.55	5	10	6.97	20.78	820	83	2.37	9	Well purged dry on 8/30/2010 and sampled 8/31/2010.
RD-54C	9/1/2010	1454	435.49	4	8	8.45	20.75	627	-105	1.49	30	Well purged dry on 8/31/2010 and sampled 9/1/2010.
RD-56A	8/26/2010	740	342.3	4	40	7.16	17.86	1021	206	3.48	40.7	Well purged dry on 8/25/2010 and sampled 8/26/2010.
RD-56B	8/31/2010	1225	182.82	15.5	3,577	7.30	22.95	720	-129	0.2	0	
RD-57	8/17/2010	1033	--	--	1.50	--	--	--	--	--	--	FLUTe™ well - sampled from Port #7. Parameter readings not part of BL Hall protocol.
RD-63	9/2/2010	1000	--	6.5	1,099	6.78	22.17	1205	45	0.5	0	
RD-64	9/9/2010	1530	--	--	1.50	6.66	19.74	0.814	84	0.49	0	FLUTe™ well- sampled from Port #6 on 9/10/2010. Parameter readings collected during purging on 9/9/2010; conductivity units in mS/cm.

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

Well ID	Date	Time	Depth to Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
RD-65	9/2/2010	--	--	--	--	7.44	2332	0.588	63	1.8	15.5	FLUTe™ well - Sampling split between 2 days, sampled from Port # 6 on 9/1/2010 and from Port #7 on 9/2/2010. Water levels downloaded by Montgomery Watson Harza.
RD-70	8/23/2010	1032	144.62	7	693	7.04	20.48	1009	-98	0.06	2	
RD-85	8/19/2010	910	82.81	--	--	6.76	28.98	1328	106	4.79	9.6	Well purged dry on 8/18/2010 and sampled 8/19/2010.
RD-86	8/19/2010	1440	56.62	--	--	6.55	20.71	908	93	4.94	18.1	Well purged dry on 8/18/2010 and sampled 8/19/2010.
RD-87	9/2/2010	910	50.71	--	--	6.61	20.30	1215	104	1.54	10	Well purged dry on 9/1/2010 and sampled 9/2/2010.
RD-88	9/2/2010	935	27.75	--	--	6.81	21.11	1027	89	1.77	44	Due to water column less than 3 feet, sample was hand bailed. Pre-purge sample was collected on 9/1/2010. Well recharged and sample collected 9/2/2010.
RD-90	9/2/2010	1005	36.13	--	--	6.81	21.11	1027	89	1.77	44	Well purged dry on 9/1/2010 and sampled 9/2/2010.
RD-91	8/25/2010	845	124.01	2	10	6.70	25.46	1.156	38	1.88	44	Conductivity units in ms/cm.Well purged dry on 8/24/2010 and sampled 8/25/2010.
RD-92	8/24/2010	1125	62.52	2	20	7.20	21.06	0.498	77	2.69	25	Well purged dry on 8/23/2010 and sampled 8/24/2010.
RD-93	9/2/2010	1040	34.59	--	--	6.64	22.82	1500	94	1.22	40	Well purged dry on 9/1/2010 and sampled 9/2/2010.
RD-94	8/31/2010	755	19.15	4	--	6.95	17.08	1229	-4	4.5	876	Well purged dry on 8/30/2010 and sampled 8/31/2010.
RD-95	9/2/2010	1120	53.02	--	--	6.45	21.97	1400	107	1.9	1497	Well purged dry on 9/1/2010 and sampled 9/2/2010.
RD-96	8/19/2010	800	60.21	--	--	6.65	21.18	978	121	1.96	42	Well purged dry on 8/18/2010 and sampled 8/19/2010.
RD-98	9/2/2010	740	40.49	--	--	6.71	19.31	775	109	1.39	31	Well purged dry on 9/1/2010 and sampled 9/2/2010.
RS-11	8/26/2010	1535	DRY	--	--	--	--	--	--	--	--	Well was dry, unable to sample. Depth to bottom: 17.83 feet.
RS-18	8/23/2010	1008	DRY	0.11	1.00	7.06	21.39	1.041	87.00	4.07	48.00	Conductivity units in mS/cm. Due to water column less than 3 feet, well hand bailed. Well did not recharge.
RS-25	8/25/2010	750	14.71	--	--	6.52	23.38	989	245	2.64	348	Sample was cloudy and gray in color, only Tritium sample was collected. No recharge.
RS-54	8/30/2010	1243	43.9	8	--	--	--	--	--	--	--	Well pumped dry within 3 minutes, unable to collect parameters. No recharge, unable to sample.
WS-07	8/27/2010	1103	77.69	13.75	12,060	7.16	22.42	810	-70	0.72	15	

Notes:

-- data not available
°C - degrees Celsius
DO - dissolved oxygen
FLUTe™ - Flexible Liner Underground Technologies
gpm - gallons per minute
ID - identification
mg/L - milligrams per liter
mL - milliliter
mL/min - milliliters per minute
mS/cm - millisiemens per centimeter
NTU - nephelometric turbidity unit
ORP - oxidation reduction potential
Temp - temperature
μmhos/cm - micromhos per centimeter

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

Well ID	Date	Time	Depth To Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
ES-31	3/25/2011	820	5.9	3	6.00	6.16	17.46	857	161	4.93	60.9	Well purged dry on 3/34/2011 and sampled 3/25/2011.
OS-02	4/18/2011	1240	--	--	--	8.27	17.3	783	28.8	6.87	79.1	Artesian well (Bathtub Well), sample collected directly from bathtub. Observation: algae and tadpoles in well.
OS-03	4/18/2011	1152	--	--	--	7.54	18.95	786	114	3.28	10.5	Artesian well; above ground collection. Parameter readings collected on 4/18/2011, however, due to a Federal Express error well resampled 4/21/2011.
OS-04	4/18/2011	1130	--	--	--	7.12	16.31	1009	-98	3.47	86.1	Artesian well; sampled directly from casing at ground level. Parameter readings collected 4/18/2011, however, due to a Federal Express error, well resampled 4/21/2011.
OS-05	4/18/2011	1150	--	--	--	--	--	--	--	--	--	Artesian well dry - no sample collected.
OS-09	4/18/2011	1455	--	--	--	8.54	17.6	878	-247	1.83	23.3	Artesian well; sample collected from ponded area, no water flowing.
OS-9R	4/1/2011	855	--	--	--	--	19.14	--	--	--	--	Westbay Pump System. Sample port readings (Port #1): Depth to probe: 35.9 feet; fluid pressure readings: 29.89 psia (inside casing), 31.21 psia (outside casing); Temp.: 19.14 °C (outside casing).
OS-10	4/18/2011	1545	--	--	--	8	18.72	699	-86	4.00	5999	Artesian well; sample collected from ponded area, no flowing water.
PZ-005	3/23/2011	847	14.41	200	3800	7.11	18.54	1072	166	6.36	2000	Flow rate units in mL/min, volume units in mL.
PZ-041	3/25/2011	949	7.2	50	1305	7.12	15.51	1.098	-176	0.74	16.5	Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm.
PZ-052	3/31/2011	942	17.27	50	1300	7.1	20.81	1026	92	4.72	36	Flow rate units in mL/min, volume units in mL.
PZ-055	3/31/2011	810	--	--	--	--	--	--	--	--	--	Water column less than 3 feet. Bailer used to collect partial tritium sample. Groundwater was silty and murky.
PZ-056	3/28/2011	1021	9.06	75	3600	6.37	16.13	0.401	-228	0.32	17.9	Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm.
PZ-073	4/19/2011	915	--	--	--	--	--	--	--	--	--	Well dry, no sample collected.
PZ-098	3/29/2011	1117	20.81	50	2475	6.68	18.97	1.129	-172	3.01	6.7	Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm.
PZ-100	3/18/2011	944	11.05	50	1800	7.38	15.69	1425	170	6.08	27	Flow rate units in mL/min, volume units in mL.
PZ-101	3/28/2011	851	7.34	50	1050	7.49	17.2	780	187	5.74	304	Flow rate units in mL/min, volume units in mL.
PZ-102	3/30/2011	1004	51.58	50	2150	6.44	19.51	261	134	6.45	294	Flow rate units in mL/min, volume units in mL.
PZ-103	3/25/2011	1229	24.08	500	53,000	7.34	19.8	1097	132	5.65	532	Flow rate in units of mL/min, volume in units of mL.
PZ-105	3/23/2011	1103	14.66	50	1450	7.66	18	937	166	3.87	331	Flow rate in units of mL/min, volume in units of mL.
PZ-106	3/18/2011	1019	12.93	75	2925	6.89	16.9	919	104	4.17	12	Flow rate in units of mL/min, volume in units of mL.
PZ-108	3/17/2011	1231	9.19	50	1300	6.88	17.17	1022	80	3.67	0	Flow rate in units of mL/min, volume in units of mL.
PZ-109	3/24/2011	1344	14.38	50	1725	7.52	16.29	1085	-34	2.20	320	Flow rate in units of mL/min, volume in units of mL.
PZ-110	3/21/2011	1230	--	--	--	--	--	--	--	--	--	Well dry, no sample collected.
PZ-111	3/31/2011	1132	19.4	50	--	7.65	21.31	927	98	3.76	195	Flow rate in units of mL/min.
PZ-112	3/18/2011	908	25.99	50	2250	6.25	17.62	0.943	-188	2.22	15.8	Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm.
PZ-113	3/29/2011	1548	12.71	50	--	6.85	24.11	504	94	1.31	274	Flow rate in units of mL/min.

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

Well ID	Date	Time	Depth To Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
PZ-114	3/28/2011	1247	48.87	--	--	7.25	18.47	1135	154	6.71	190	Water column less than 3 feet. Hand bailed well dry, no recharge. Collected pre-purge Tritium and partial gamma spec samples only.
PZ-116	3/29/2011	1034	20.68	50	1600	6.43	18.31	2240	169	5.40	17	Flow rate in units of mL/min, volume in units of mL.
PZ-120	3/17/2011	913	14.86	50	1850	6.98	14.61	804	223	2.40	7	Flow rate in units of mL/min, volume in units of mL.
PZ-121	3/16/2011	1354	18.35	50	1550	6.18	20.36	872	216	4.85	20	Flow rate in units of mL/min, volume in units of mL.
PZ-122	3/17/2011	953	9.59	50	1750	6.87	16.94	1020	225	3.30	11	Flow rate in units of mL/min, volume in units of mL.
PZ-124	3/30/2011	943	25.17	50	1350	6.83	16.77	2810	148	2.70	12	Flow rate in units of mL/min, volume in units of mL.
PZ-143	3/21/2011	1300	--	--	--	--	--	--	--	--	--	Well dry, no sample collected.
PZ-150	3/22/2011	1052	18.27	50	2400	7.4	16.1	1.216	-153	5.79	5	Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm.
PZ-151	3/28/2011	1320	77.63	--	--	6.94	22.09	1560	144	2.36	138	Water column less than 3 feet. Hand bailed well dry, no recharge. Collected pre-purge Tritium and partial gamma spec samples only.
PZ-160	3/23/2011	1050	24.6	60	1800	6.8	17.36	1.63	-154	2.74	7.5	Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm.
PZ-161	3/24/2011	1016	24.46	7.5	1310	6.9	16.12	2.45	-149	2.40	4.8	Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm.
RD-07	4/4/2011	1150	--	--	6	6.61	19.9	0.699	-229	4.22	21.7	FLUTe™ well, sampled from Port #3. Hydrogen sulfide odor in well.
RD-13	3/29/2011	908	70.28	--	--	7.12	19.34	0.723	-224	0.57	3.4	Purged well on 3/28/2011 and sampled on 3/29/2011. Conductivity units in mS/cm.
RD-14	3/21/2011	1540	90.1	--	--	7.05	20.05	0.947	-232	0.14	9.1	Conductivity units in mS/cm.
RD-15	3/29/2011	1112	82.52	3	532.5	7.14	21	820	-122	0.24	109	At approximately 400 gallons, the water turned a brownish color.
RD-16	4/20/2011	900	--	3.5	926	7.12	18.79	0.844	-147	0.29	13.6	Two days to purge well. Well sampled at 1440 on 4/20/2011 once recharged (Final depth to water at time of sampling was 42.20 feet below top of casing)
RD-17	3/25/2011	950	31.8	2	6	6.8	18.4	813	205	3.73	20	Well purged dry on 3/24/2011, sample collected on 3/25/2011.
RD-18	3/22/2011	815	208.21	5	--	7.35	18.5	0.573	-116	5.30	3.8	Well purged dry on 3/21/2011, and sampled on 3/22/2011. Conductivity units in mS/cm.
RD-19	3/17/2011	1222	77.44	4	--	6.65	19.03	1.59	-255	0.95	6	Well purged dry on 3/16/2011, and sampled on 3/17/2011. Conductivity units in mS/cm.
RD-20	3/22/2011	800	49.35	6.5	4	6.66	17.99	1427	220	6.20	0	Well purged on 3/21/2011, and sampled on 3/22/2011.
RD-21	4/1/2011	1005	--	--	1	7.15	21.68	0.779	-291	1.45	22.6	FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm.
RD-22	3/31/2011	1310	--	--	4.25	7.49	22.91	1.145	-330	0.99	55.8	FLUTe™ well sampled from Port #2. Conductivity units in mS/cm.
RD-23	4/1/2011	1100	--	--	2	7.36	22.12	0.664	-357	2.53	14.8	FLUTe™ well sampled from Port #3. Hydrogen sulfide odor in well. Conductivity units in mS/cm.
RD-24	3/24/2011	1556	--	3	623	7.02	16.23	637	130	0.77	8	
RD-27	3/17/2011	1505	64.72	--	530	7.21	19.54	0.625	-262	0.88	19.3	Conductivity units in mS/cm.
RD-29	3/25/2011	902	8.98	3	6	7.22	20.24	876	143	5.41	106	Well purged on 3/24/2011, recharged and sampled on 3/25/2011.
RD-33A	3/31/2011	1335	--	--	2.5	7.57	21.43	0.537	-298	3.04	5	FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm.
RD-33B	3/22/2011	950	309.95	2	6	6.9	17.03	753	-99	6.16	0	Well purged dry on 3/21/2011, and sampled on 3/22/2011.
RD-33C	3/22/2011	855	286.54	9	54	6.84	16.66	690	-161	3.27	17	Well purged on 3/21/2011, recharged and sampled on 3/22/2011.

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

Well ID	Date	Time	Depth To Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
RD-34A	3/23/2011	1540	30.75	5	8	6.45	15.74	1128	155	1.94	2	Well purged dry on 3/22/2011, and sampled on 3/23/2011.
RD-34B	3/18/2011	811	39.33	4.5	--	6.9	14.95	892	-37	1.55	0	Well purged dry on 3/17/2011, and sampled on 3/18/2011.
RD-34C	3/22/2011	1520	79	8.5	2201	7.21	19.84	554	-130	0.08	0	
RD-50	3/31/2011	1205	--	--	1	7.37	20.26	0.735	-271	2.66	2.7	FLUTe™ well, sampled from Port #2. Sampled over two days. Conductivity units in mS/cm.
RD-54A	4/1/2011	1110	--	--	3.25	7.34	23.62	0.722	-290	1.94	11.6	FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm.
RD-54B	3/24/2011	905	329.7	4.5	3	7.21	16.88	857	-169	1.46	20	Well purged dry on 3/23/2011, and sampled on 3/24/2011.
RD-54C	3/24/2011	830	461.64	2	5	8.76	14.24	686	-117	1.01	44	Well purged dry on 3/23/2011, and sampled on 3/24/2011.
RD-56A	4/20/2011	1205	325.21	--	--	7.12	17.81	1133	-69	2.99	44	Well purged dry on 4/19/2011, and sampled on 4/20/2011.
RD-56B	4/20/2011	1355	186.9	17	3631	7.23	20.69	0.741	-101	2.04	12.8	Conductivity units in mS/cm.
RD-57	3/31/2011	1345	--	--	2	7.85	21.49	0.631	-288	1.70	26.7	FLUTe™ well, sampled from Port #7. Sampled over two days. Conductivity units in mS/cm.
RD-59A	4/18/2011	1115	42.9	3	165	7.05	17.08	1087	25	2.90	25.1	Artesian well.
RD-59B	4/18/2011	922	--	10	--	7.46	18.62	775	26	4.19	48.5	Artesian well.
RD-59C	4/18/2011	951	--	2	--	7.7	17.09	805	0.47	3.57	23.3	Artesian well.
RD-63	3/23/2011	1520	79.05	11	1135	6.7	17.92	1121	121	2.98	8	
RD-64	4/4/2011	1048	--	--	4.5	7.66	19.95	0.786	-378	5.82	7.6	FLUTe™ well sampled from Port #6. Hydrogen sulfide odor in well. Conductivity units in mS/cm.
RD-65	4/4/2011	1120	--	--	1.5	7.67	20.35	0.518	-284	7.53	12.4	FLUTe™ well sampled from Port #7. Volume units in liters. Conductivity units in mS/cm.
RD-68A	4/18/2011	1336	--	1.5	18	8.21	17.2	627	-207	2.87	14.4	Artesian well.
RD-68B	4/18/2011	1406	--	3	36	7.36	19.41	817	-135	3.34	11.3	Artesian well.
RD-70	4/18/2011	1129	138.97	3.5	143.5	6.99	18.33	1.009	-186	0.69	12.7	Hydrogen sulfide odor. Conductivity units in mS/cm.
RD-85	3/17/2011	1346	75.85	2	--	6.83	19.45	1.344	-158	4.96	5.8	Well purged dry with Grundfos pump on 3/16/2011, and sampled with bailer on 3/17/2011. Conductivity units in mS/cm.
RD-86	3/24/2011	850	41.24	--	--	6.53	18.73	0.916	-114	5.92	8.8	Well purged dry on 3/23/2011, and sampled on 3/24/2011. Conductivity units in mS/cm.
RD-86	3/29/2011	810	60.51	--	--	6.35	18.74	0.9	-95	7.27	4.4	Priority 1 sets collected 3/24/2011, Priority 2 sample taken 3/29/2011 due to recent analytical findings in well. Well purged on 3/28/2011, and sampled for Priority 2 analytes on 3/29/2011. Conductivity units in mS/cm.
RD-87	3/18/2011	850	50.5	--	--	6.68	15.75	1198	34	2.46	0	Well purged dry with a Grundfos pump on 3/17/2011, and sampled with a bailer on 3/18/2011.
RD-88	3/29/2011	840	17.29	--	<1.0	6.42	15.56	730	159	1.73	17	Well purged dry on 3/28/2011, and sampled on 3/29/2011.
RD-90	3/29/2011	805	25.53	--	<1.0	6.47	16.88	1260	226	3.14	6	Well purged dry on 3/28/2011, and sampled on 3/29/2011.
RD-91	3/30/2011	1320	97.35	6.5	3	7.22	22.23	1192	119	4.60	1	Well purged dry on 3/29/2011, and sampled on 3/30/2011.
RD-92	3/22/2011	915	61.3	8	--	7.1	19.46	0.507	-171	2.73	3.5	Well purged dry on 3/21/2011, and sampled on 3/22/2011. Conductivity units in mS/cm.
RD-93	3/17/2011	1432	33.49	--	--	6.67	21.37	1650	198	2.17	375	Well purged dry on 3/16/2011, and sampled 3/17/2011. Slightly brown tinted color.
RD-94	3/28/2011	1405	9.78	1	62	6.43	17.11	1432	-6	1.42	34	

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

Well ID	Date	Time	Depth To Water (feet)	Flow Rate (gpm)	Total Volume (gallons)	Ph	Temp (°C)	Conductivity (μmhos/cm)	ORP	DO (mg/L)	Turbidity (NTU)	Comments
RD-95	3/17/2011	1344	52.72	--	--	6.5	19.75	1400	238	2.46	198	Well purged dry on 3/16/2011, and sampled on 3/17/2011.
RD-96	3/25/2011	810	60.03	--	--	6.93	14.75	1.134	-116	1.54	21.2	Well purged dry on 3/24/2011, sample collected on 3/25/2011. Conductivity units in mS/cm.
RD-97	3/30/2011	1500	46.95	--	--	6.98	23.46	1.118	-269	3.09	85.9	Well slightly turbid towards bottom 10 feet. Conductivity units in mS/cm.
RD-98	4/19/2011	940	27.33	--	--	7.02	17.46	633	-110	4.58	32	Well purged on 4/18/2011 with Grundfos pump, and sample collected on 4/19/2011 with a bailer.
RS-11	3/31/2011	745	8.1	--	1	6.81	20.21	2220	224	4.57	3	Well purged dry on 3/30/2011 and sampled 3/31/2011.
RS-16	3/30/2011	1024	17.82	60	2580	6.76	20.06	0.877	-188	2.83	15.8	Conductivity units in mS/cm.
RS-18	3/18/2011	740	4.82	--	--	7.05	13.79	831	193	5.23	60	Due to time constraints, well purged on 3/17/2011 and sampled 3/18/2011.
RS-23	3/21/2011	810	13.6	--	--	7.07	11.6	0.656	-60	4.80	141	Due to water column less than 3 feet, hand bailed pre-purge sample. Well color was murky and contained sediment on the bottom of the casing. Conductivity units in mS/cm.
RS-24	3/30/2011	1442	--	--	--	--	--	--	--	--	--	Well dry. Total depth of well is 8.48 feet.
RS-25	3/24/2011	808	12.9	--	--	6.73	15.9	0.904	-121	2.35	550	Water column less than 3 feet, hand bailed well on 3/23/2011 and 3/24/2011. Well recharged and sampled on 3/24/2011. Conductivity units in mS/cm.
RS-27	3/30/2011	1413	6.97	--	--	6.97	21.36	764	117	5.65	516	Slight yellowish-brown tint to groundwater. Pre-purge sample, water column less than 3 feet with no recharge.
RS-54	3/28/2011	1503	44.3	3	43	7.05	19.79	1187	120	0.71	103	Well known to not recharge. Pre-purge sample collected. Well purged dry and did not recharge.
WS-07	4/19/2011	1213	71.2	25	12,200	7.11	19.92	769	-195	1.34	23	
WS-09A	6/3/2011	935	26.82	32.37	91,000	6.75	15.13	654	-24	3.13	2	Well is connected to the Area I Groundwater Extraction Treatment system and is continuously pumping. Total volume was based on one week.

Notes:

-- data not available

°C - degrees Celsius

DO - dissolved oxygen

FLUTe™ - Flexible Liner Underground Technologies

gpm - gallons per minute

ID - identification

mg/L - miligrams per liter

mL - milliliter

mL/min - milileters per minute

mS/cm - millisiemens per centimeter

NTU - nephelometric turbidity unit

ORP - oxidation reduction potential

Temp - temperature

μmhos/cm - micromhos per centimeter

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
ES-31	Near surface	Shallow	Low flow sampling method	Priority 1	
PZ-005	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-041	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-052	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-055	Piezometer	Shallow	Bailer	Dry	
PZ-056	Piezometer	Shallow	Low flow sampling method	Screening Sample, H-3	Phase I pre-purge screening sample, tritium only.
PZ-073	Piezometer	Shallow	Dry	Dry	Phase I - well dry, no sample collected.
PZ-098	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-100	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-101	Piezometer	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
PZ-102	Piezometer	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
PZ-103	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-105	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-106	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-108	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-109	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-110	Piezometer	Shallow	Dry	Dry	Phase I - well dry, no sample collected.
PZ-111	Piezometer	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
PZ-112	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-113	Piezometer	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
PZ-114	Piezometer	Shallow	Bailer	Screening Sample, H-3	Phase I pre-purge screening sample, tritium only.
PZ-116	Piezometer	Shallow	Low flow sampling method	Dry	Phase I well dry
PZ-120	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-121	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-122	Piezometer	Shallow	Low flow sampling method	Priority 1	

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
PZ-124	Piezometer	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
PZ-143	Piezometer	Shallow	Dry	Dry	Phase I - well dry, no sample collected.
PZ-150	Piezometer	Shallow	Low flow sampling method	Screening Sample, H-3, Gamma Spec, Sr-90	Phase I - pre-purge screening sample, tritium, gamma spec, and Sr-90 only.
PZ-151	Piezometer	Shallow	Bailer	Screening Sample, H-3	Phase I pre-purge screening sample, tritium only.
PZ-160	Piezometer	Shallow	Low flow sampling method	Screening Sample Priority 1	Phase I - pre-purge screening sample only. Complete Priority 1 suite was collected.
PZ-161	Piezometer	Shallow	Low flow sampling method	Priority 1	
RD-07	Open hole	Chatsworth	FLUTeTM	Priority 1	
RD-13	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-14	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-15	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-16	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-17	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-18	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-19	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-20	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-21	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-22	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-23	Open hole	Chatsworth	FLUTe™ - Port 3	Priority 1	
RD-24	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-27	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-29	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-33A	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-33B	Open hole	Chatsworth	Well volume approach	Priority 2	

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
RD-33C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34A	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34B	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-50	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-54A	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-54B	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-54C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-56A	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-56B	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-57	Open hole	Chatsworth	FLUTe™ - Port 7	Priority 1	
RD-63	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-64	Open hole	Chatsworth	FLUTe™ - Port 6	Priority 1	
RD-65	Open hole	Chatsworth	FLUTe™ - Port 7	Priority 1	
RD-70	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-85	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-86	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-87	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-88	Open hole	Chatsworth	Bailer/Well volume approach	Priority 1	
RD-90	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-91	--	Chatsworth	Well volume approach	Priority 1	
RD-92	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-93	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-94	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-95	Open hole	Chatsworth	Well volume approach	Priority 1	

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
RD-96	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-97	Open hole	Chatsworth	Well volume approach	Dry	Phase I - well dry, no sample collected.
RD-98	--	Chatsworth	Well volume approach	Priority 2	
RS-11	Near surface	Shallow	Well volume approach	Dry	Phase I - well dry, no sample collected.
RS-16	Near surface	Shallow	Low flow sampling method	Dry	Phase I - well dry, no sample collected.
RS-18	Near surface	Shallow	Well volume approach	Screening Sample Priority 1	Phase I - pre-purge screening sample only. Complete Priority 1 suite was collected.
RS-23	Near surface	Shallow	Bailer	Dry	Phase I - well dry, no sample collected.
RS-24	Near surface	Shallow	Dry	Dry	Phase I - well dry, no sample collected.
RS-25	Near surface	Shallow	Bailer	Screening Sample, H-3	Phase I - pre-purge screening sample, tritium only.
RS-27	Near surface	Shallow	Bailer	Dry	Phase I - well dry, no sample collected.
RS-54	Open hole	Shallow	Well volume approach	Dry	Phase I - well purged dry but never recharged. No sample collected.
WS-07	Open hole	Chatsworth	Well volume approach	Priority 1	

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Analyte list for Priority 1 samples: Tritium, Gamma Spec, Iso-U, Sr-90, Gross Alpha, and Gross Beta

Analyte list for Priority 2 samples: Iso-Am/Cm, Iso-Pu, Np-237, Ra-226, I-129, Tc-99, C-14 (also includes all Priority 1 analytes)

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Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
ES-31	Near surface	Shallow	Low flow sampling method	Priority 1	
PZ-005	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-041	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-052	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-055	Piezometer	Shallow	Bailer	Screening Sample, H-3	Phase II pre-purge screening sample, tritium only.
PZ-056	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-073	Piezometer	Shallow	Dry	Dry	Phase II - well dry, no sample collected.
PZ-098	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-100	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-101	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-102	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-103	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-105	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-106	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-108	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-109	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-110	Piezometer	Shallow	Dry	Dry	Phase II - well dry, no sample collected.
PZ-111	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-112	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-113	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-114	Piezometer	Shallow	Bailer	Screening Sample, H-3, Gamma Spec	Phase II pre-purge screening sample, only tritium and gamma spec analytes collected.
PZ-116	Piezometer	Shallow	Low flow sampling method	Priority 1	

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
PZ-120	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-121	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-122	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-124	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-143	Piezometer	Shallow	Dry	Dry	Phase II - well dry, no sample collected.
PZ-150	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-151	Piezometer	Shallow	Bailer	Screening Sample, H-3, Gamma Spec	Phase II pre-purge screening sample, only tritium and gamma spec analytes collected.
PZ-160	Piezometer	Shallow	Low flow sampling method	Priority 1	
PZ-161	Piezometer	Shallow	Low flow sampling method	Priority 1	
RD-07	Open hole	Chatsworth	FLUTe™	Priority 1	
RD-13	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-14	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-15	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-16	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-17	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-18	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-19	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-20	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-21	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-22	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-23	Open hole	Chatsworth	FLUTe™ - Port 3	Priority 1	
RD-24	Open hole	Chatsworth	Well volume approach	Priority 1	

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
RD-27	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-29	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-33A	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-33B	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-33C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34A	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34B	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-34C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-50	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-54A	Open hole	Chatsworth	FLUTe™ - Port 2	Priority 1	
RD-54B	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-54C	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-56A	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-56B	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-57	Open hole	Chatsworth	FLUTe™ - Port 7	Priority 1	
RD-63	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-64	Open hole	Chatsworth	FLUTe™ - Port 6	Priority 1	
RD-65	Open hole	Chatsworth	FLUTe™ - Port 7	Priority 1	
RD-70	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-85	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-86	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-87	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-88	Open hole	Chatsworth	Bailer/Well volume approach	Priority 1	

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
RD-90	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-91	--	Chatsworth	Well volume approach	Priority 1	
RD-92	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-93	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-94	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-95	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-96	Open hole	Chatsworth	Well volume approach	Priority 1	
RD-97	Open hole	Chatsworth	Well volume approach	Priority 2	
RD-98	--	Chatsworth	Well volume approach	Priority 2	
RS-11	Near surface	Shallow	Well volume approach	Priority 1	
RS-16	Near surface	Shallow	Low flow sampling method	Priority 1	
RS-18	Near surface	Shallow	Well volume approach	Priority 1	
RS-23	Near surface	Shallow	Bailer	Priority 1	
RS-24	Near surface	Shallow	Dry	Dry	Phase II - well dry, no sample collected.
RS-25	Near surface	Shallow	Bailer	Priority 1	
RS-27	Near surface	Shallow	Bailer	Priority 1	
RS-54	Open hole	Shallow	Well volume approach	Priority 1	
WS-07	Open hole	Chatsworth	Well volume approach	Priority 1	
WS-09A	--	Chatsworth	Attached to Area I GET System	Priority 1	

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

Well Identification	Well Type	Formation	Sampling Method (Low Flow/Well Volume/Artesian)	Analytes Collected	Comments
Offsite Wells					
OS-02	Open hole	Artesian	Artesian flowing	Priority 1	Artesian flowing well
OS-03	Open hole	Artesian	Artesian flowing	Priority 1	Artesian flowing well
OS-04	Artesian	Artesian	Artesian flowing	Priority 1	Artesian flowing well
OS-05	Artesian	Artesian	Artesian flowing	Dry	Phase II - well dry, no sample collected.
OS-09	Artesian	Artesian	Artesian flowing	Priority 1	Artesian flowing well
OS-09R	Westbay Pump System	Artesian	Westbay Pump System Port 1	Priority 1	Artesian flowing well
OS-10	Open hole	Artesian	Artesian flowing	Priority 1	Artesian flowing well
RD-59A	Open hole	Chatsworth	Artesian flowing	Priority 1	
RD-59B	--	Chatsworth	Artesian flowing	Priority 1	
RD-59C	--	Chatsworth	Artesian flowing	Priority 1	
RD-68A	Open hole	Chatsworth	Artesian flowing	Priority 1	
RD-68B	--	Chatsworth	Artesian flowing	Priority 1	

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Analyte list for Priority 1 samples: Tritium, Gamma Spec, Iso-U, Sr-90, Gross Alpha, and Gross Beta

Analyte list for Priority 2 samples: Iso-Am/Cm, Iso-Pu, Np-237, Ra-226, I-129, Tc-99, C-14 (also includes all Priority 1 analytes)

Offsite wells were only sampled during the Phase II Sampling Event.

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Table 3.6
FLUTe™ Well Ports Sampled
Groundwater Sampling

Well Identification	Ports Used For Sampling	Port Top Elevation	Port Bottom Elevation	Port Midpoint Elevation
RD-07	Port 3	90	100	1717.82
RD-21	Port 2	105	115	1756.96
RD-22	Port 2	330	340	1518.41
RD-23	Port 3	271	281	1562.19
RD-33A	Port 2	231	241	1556.97
RD-50	Port 2	--	--	--
RD-54A	Port 2	170.5	180.5	1666.22
RD-57	Port 7	348	358	1421.15
RD-64	Port 6	270.5	280.5	1581.54
RD-65*	Port 7	--	--	--

Notes:

*Port #4 was proposed in FSP for its high hydraulic conductivity, but was dry, as was Port #5. Port #6 wasn't working properly, and thus Port #7 was used for both Phase I and Phase II.

-- data not available

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Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-96	SMRD-96-GW081910	Ac-227	Filtered	0.05 U	9.7	2.9	SMDUP-01-GW081910	Ac-227	Filtered	-3.2 U	9.6	2.9
RD-96	SMRD-96-GW081910	Ac-227	Suspended	-0.2 U	6.4	1.9	SMDUP-01-GW081910	Ac-227	Suspended	-2.2 U	4.4	1.3
RD-96	SMRD-96-GW081910	Ac-228	Filtered	3.4	5.1	1.6	SMDUP-01-GW081910	Ac-228	Filtered	1.2 U	4.7	1.4
RD-96	SMRD-96-GW081910	Ac-228	Suspended	2.16	2.6	0.82	SMDUP-01-GW081910	Ac-228	Suspended	-0.46 U	2.9	0.94
RD-96	SMRD-96-GW081910	Bi-212	Filtered	2.2 U	12	3.4	SMDUP-01-GW081910	Bi-212	Filtered	4.2 U	12	3.6
RD-96	SMRD-96-GW081910	Bi-212	Suspended	3.9	5.6	1.7	SMDUP-01-GW081910	Bi-212	Suspended	2.5 U	5.7	1.7
RD-96	SMRD-96-GW081910	Bi-214	Filtered	-0.8 U	3.8	1.3	SMDUP-01-GW081910	Bi-214	Filtered	-1.6 U	4	2.1
RD-96	SMRD-96-GW081910	Bi-214	Suspended	1.4	1.9	0.8	SMDUP-01-GW081910	Bi-214	Suspended	1.08	1.6	0.6
RD-96	SMRD-96-GW081910	Cd-113m	Filtered	-300 U	16000	4500	SMDUP-01-GW081910	Cd-113m	Filtered	900 U	17000	4900
RD-96	SMRD-96-GW081910	Cd-113m	Suspended	2400 U	7100	2100	SMDUP-01-GW081910	Cd-113m	Suspended	-400 U	7600	2200
RD-96	SMRD-96-GW081910	Co-60	Filtered	-0.001 U	1.8	0.51	SMDUP-01-GW081910	Co-60	Filtered	0.0003 U	1.5	0.4
RD-96	SMRD-96-GW081910	Co-60	Suspended	0.13 U	0.74	0.21	SMDUP-01-GW081910	Co-60	Suspended	0 U	0.79	0.22
RD-96	SMRD-96-GW081910	Cs-134	Filtered	0.32 U	1.4	0.42	SMDUP-01-GW081910	Cs-134	Filtered	-0.14 U	1.5	0.43
RD-96	SMRD-96-GW081910	Cs-134	Suspended	-0.14 U	0.95	0.28	SMDUP-01-GW081910	Cs-134	Suspended	-0.01 U	0.79	0.23
RD-96	SMRD-96-GW081910	Cs-137	Filtered	0 U	1.6	0.45	SMDUP-01-GW081910	Cs-137	Filtered	0.41 U	1.2	0.34
RD-96	SMRD-96-GW081910	Cs-137	Suspended	0.13 U	0.74	0.22	SMDUP-01-GW081910	Cs-137	Suspended	-0.02 U	0.69	0.2
RD-96	SMRD-96-GW081910	Eu-152	Filtered	0.08 U	3.7	1.1	SMDUP-01-GW081910	Eu-152	Filtered	-0.6 U	4.2	1.2
RD-96	SMRD-96-GW081910	Eu-152	Suspended	0.11 U	1.8	0.52	SMDUP-01-GW081910	Eu-152	Suspended	0.63 U	1.6	0.49
RD-96	SMRD-96-GW081910	Eu-154	Filtered	-0.3 U	8.9	2.4	SMDUP-01-GW081910	Eu-154	Filtered	0.1 U	13	3.6
RD-96	SMRD-96-GW081910	Eu-154	Suspended	-0.04 U	5	1.4	SMDUP-01-GW081910	Eu-154	Suspended	-1.5 U	6.6	1.9
RD-96	SMRD-96-GW081910	Eu-155	Filtered	0.334 U	3.4	0.997	SMDUP-01-GW081910	Eu-155	Filtered	0.94 U	3.1	0.94
RD-96	SMRD-96-GW081910	Eu-155	Suspended	0.31 U	1.2	0.37	SMDUP-01-GW081910	Eu-155	Suspended	0.01 U	1.1	0.33
RD-96	SMRD-96-GW081910	gross_alpha	Filtered	11.7	0.53	0.83	SMDUP-01-GW081910	gross_alpha	Filtered	4.49	0.4	0.42
RD-96	SMRD-96-GW081910	gross_alpha	Suspended	8.63	0.59	0.7	SMDUP-01-GW081910	gross_alpha	Suspended	0.04 U	0.59	0.15

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-96	SMRD-96-GW081910	gross_beta	Filtered	13.4	2.1	1.2	SMDUP-01-GW081910	gross_beta	Filtered	5.69	1.3	0.62
RD-96	SMRD-96-GW081910	gross_beta	Suspended	7.28	0.79	0.54	SMDUP-01-GW081910	gross_beta	Suspended	0.39 U	0.73	0.23
RD-96	SMRD-96-GW081910	H-3	Filtered	43 U	130	40	SMDUP-01-GW081910	H-3	Filtered	62 U	140	42
RD-96	SMRD-96-GW081910	H-3	Suspended	2.3 U	12	3.5	SMDUP-01-GW081910	H-3	Suspended	8.1	13	4
RD-96	SMRD-96-GW081910	Ho-166m	Filtered	-0.23 U	2.5	0.72	SMDUP-01-GW081910	Ho-166m	Filtered	-0.42 U	2.6	0.74
RD-96	SMRD-96-GW081910	Ho-166m	Suspended	0.23 U	1.1	0.32	SMDUP-01-GW081910	Ho-166m	Suspended	0.2 U	1	0.3
RD-96	SMRD-96-GW081910	K-40	Filtered	-5.2 U	23	7.8	SMDUP-01-GW081910	K-40	Filtered	-10 U	25	11
RD-96	SMRD-96-GW081910	K-40	Suspended	6.4	9.7	3	SMDUP-01-GW081910	K-40	Suspended	1.2 U	12	2.9
RD-96	SMRD-96-GW081910	Na-22	Filtered	-0.01 U	1.6	0.44	SMDUP-01-GW081910	Na-22	Filtered	-0.41 U	2.1	0.61
RD-96	SMRD-96-GW081910	Na-22	Suspended	0.28 U	0.83	0.25	SMDUP-01-GW081910	Na-22	Suspended	0.02 U	0.67	0.19
RD-96	SMRD-96-GW081910	Nb-94	Filtered	0.45 U	1.2	0.35	SMDUP-01-GW081910	Nb-94	Filtered	0.39 U	1.3	0.37
RD-96	SMRD-96-GW081910	Nb-94	Suspended	0.15 U	0.7	0.21	SMDUP-01-GW081910	Nb-94	Suspended	0.24 U	0.59	0.18
RD-96	SMRD-96-GW081910	Np-236	Filtered	0.72 U	2.8	0.84	SMDUP-01-GW081910	Np-236	Filtered	0.48 U	2.6	0.78
RD-96	SMRD-96-GW081910	Np-236	Suspended	0.02 U	1.2	0.35	SMDUP-01-GW081910	Np-236	Suspended	-0.12 U	1.2	0.36
RD-96	SMRD-96-GW081910	Np-239	Filtered	1.3 U	8.8	2.6	SMDUP-01-GW081910	Np-239	Filtered	3.1 U	8.3	2.5
RD-96	SMRD-96-GW081910	Np-239	Suspended	-0.8 U	4	1.2	SMDUP-01-GW081910	Np-239	Suspended	0.03 U	3.1	0.9
RD-96	SMRD-96-GW081910	Pa-231	Filtered	3 U	52	15	SMDUP-01-GW081910	Pa-231	Filtered	5 U	55	16
RD-96	SMRD-96-GW081910	Pa-231	Suspended	0.4 U	29	8.5	SMDUP-01-GW081910	Pa-231	Suspended	-1.2 U	23	6.8
RD-96	SMRD-96-GW081910	Pb-212	Filtered	0.47 U	2.9	0.92	SMDUP-01-GW081910	Pb-212	Filtered	-0.08 U	2.8	0.77
RD-96	SMRD-96-GW081910	Pb-212	Suspended	1.63	1.2	0.39	SMDUP-01-GW081910	Pb-212	Suspended	0.46 U	1.3	0.44
RD-96	SMRD-96-GW081910	Pb-214	Filtered	2.9	3	1	SMDUP-01-GW081910	Pb-214	Filtered	2.42	2.9	0.98
RD-96	SMRD-96-GW081910	Pb-214	Suspended	2.16	1.5	0.5	SMDUP-01-GW081910	Pb-214	Suspended	0.86	1.4	0.55
RD-96	SMRD-96-GW081910	Sb-125	Filtered	2.4 U	14	4.2	SMDUP-01-GW081910	Sb-125	Filtered	-0.1 U	14	4
RD-96	SMRD-96-GW081910	Sb-125	Suspended	0.7 U	6.1	1.8	SMDUP-01-GW081910	Sb-125	Suspended	-0.4 U	6.2	1.8

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-96	SMRD-96-GW081910	Sn-126	Filtered	0.93	1.4	0.44	SMDUP-01-GW081910	Sn-126	Filtered	0.73	1.4	0.42
RD-96	SMRD-96-GW081910	Sn-126	Suspended	0.26 U	0.78	0.23	SMDUP-01-GW081910	Sn-126	Suspended	0.03 U	0.69	0.2
RD-96	SMRD-96-GW081910	Tl-208	Filtered	-0.7 U	1.8	1.3	SMDUP-01-GW081910	Tl-208	Filtered	-0.2 U	1.9	0.63
RD-96	SMRD-96-GW081910	Tl-208	Suspended	0.78	0.85	0.35	SMDUP-01-GW081910	Tl-208	Suspended	0.46	0.92	0.4
RD-96	SMRD-96-GW081910	Tm-171	Filtered	9 U	330	98	SMDUP-01-GW081910	Tm-171	Filtered	0 U	360	100
RD-96	SMRD-96-GW081910	Tm-171	Suspended	-2 U	120	36	SMDUP-01-GW081910	Tm-171	Suspended	-48 U	110	33
RD-96	SMRD-96-GW081910	U-233/234	Filtered	3.89	0.06	0.21	SMDUP-01-GW081910	U-233/234	Filtered	2.43	0.05	0.15
RD-96	SMRD-96-GW081910	U-233/234	Suspended	0.396	0.012	0.046	SMDUP-01-GW081910	U-233/234	Suspended	0.067	0.041	0.021
RD-96	SMRD-96-GW081910	U-235/236	Filtered	0.225	0.016	0.038	SMDUP-01-GW081910	U-235/236	Filtered	0.112	0.048	0.029
RD-96	SMRD-96-GW081910	U-235/236	Suspended	0.0056 U	0.015	0.0056	SMDUP-01-GW081910	U-235/236	Suspended	-0.0045 U	0.037	0.0032
RD-96	SMRD-96-GW081910	U-238	Filtered	3.83	0.03	0.21	SMDUP-01-GW081910	U-238	Filtered	2.02	0.04	0.13
RD-96	SMRD-96-GW081910	U-238	Suspended	0.249	0.012	0.036	SMDUP-01-GW081910	U-238	Suspended	0.085	0.013	0.021
RD-092	SMRD-092-GW082410	Ac-227	Filtered	-2.5 U	9	2.7	SMDUP-02-GW082410	Ac-227	Filtered	0.9 U	8	2.4
RD-092	SMRD-092-GW082410	Ac-227	Suspended	-0.9 U	3.8	1.1	SMDUP-02-GW082410	Ac-227	Suspended	-0.2 U	3.8	1.1
RD-092	SMRD-092-GW082410	Ac-228	Filtered	3.3	4.1	1.3	SMDUP-02-GW082410	Ac-228	Filtered	-3.6 U	6.6	7.4
RD-092	SMRD-092-GW082410	Ac-228	Suspended	-0.9 U	2.9	1.1	SMDUP-02-GW082410	Ac-228	Suspended	1.12	2.3	0.71
RD-092	SMRD-092-GW082410	Bi-212	Filtered	0.1 U	12	3.4	SMDUP-02-GW082410	Bi-212	Filtered	-2.3 U	15	4.5
RD-092	SMRD-092-GW082410	Bi-212	Suspended	3.2	5.6	1.7	SMDUP-02-GW082410	Bi-212	Suspended	-0.7 U	6.8	3.8
RD-092	SMRD-092-GW082410	Bi-214	Filtered	0.02 U	2.9	0.79	SMDUP-02-GW082410	Bi-214	Filtered	-1.8 U	3.7	2.6
RD-092	SMRD-092-GW082410	Bi-214	Suspended	-0.48 U	1.7	0.76	SMDUP-02-GW082410	Bi-214	Suspended	1.24	1.6	0.56
RD-092	SMRD-092-GW082410	Cd-113m	Filtered	-3400 U	14000	4100	SMDUP-02-GW082410	Cd-113m	Filtered	4700 U	13000	3900
RD-092	SMRD-092-GW082410	Cd-113m	Suspended	-1100 U	7300	2200	SMDUP-02-GW082410	Cd-113m	Suspended	200 U	7000	2000
RD-092	SMRD-092-GW082410	Co-60	Filtered	-0.21 U	1.6	0.47	SMDUP-02-GW082410	Co-60	Filtered	0.12 U	2.1	0.59
RD-092	SMRD-092-GW082410	Co-60	Suspended	0.25 U	0.73	0.22	SMDUP-02-GW082410	Co-60	Suspended	0.13 U	0.85	0.25

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-092	SMRD-092-GW082410	Cs-134	Filtered	-0.36 U	1.5	0.46	SMDUP-02-GW082410	Cs-134	Filtered	0.22 U	1.5	0.43
RD-092	SMRD-092-GW082410	Cs-134	Suspended	-0.23 U	0.83	0.25	SMDUP-02-GW082410	Cs-134	Suspended	-0.27 U	0.94	0.28
RD-092	SMRD-092-GW082410	Cs-137	Filtered	-0.05 U	1.2	0.33	SMDUP-02-GW082410	Cs-137	Filtered	0.8	1.5	0.45
RD-092	SMRD-092-GW082410	Cs-137	Suspended	-0.2 U	0.7	0.21	SMDUP-02-GW082410	Cs-137	Suspended	0.13 U	0.73	0.22
RD-092	SMRD-092-GW082410	Eu-152	Filtered	-0.3 U	3.8	1.1	SMDUP-02-GW082410	Eu-152	Filtered	0.5 U	3.7	1.1
RD-092	SMRD-092-GW082410	Eu-152	Suspended	0.32 U	1.7	0.5	SMDUP-02-GW082410	Eu-152	Suspended	0.16 U	1.8	0.54
RD-092	SMRD-092-GW082410	Eu-154	Filtered	1.2 U	11	3.1	SMDUP-02-GW082410	Eu-154	Filtered	1.8 U	13	3.8
RD-092	SMRD-092-GW082410	Eu-154	Suspended	0.03 U	4.9	1.4	SMDUP-02-GW082410	Eu-154	Suspended	0 U	6.7	1.9
RD-092	SMRD-092-GW082410	Eu-155	Filtered	-0.04 U	2.3	0.67	SMDUP-02-GW082410	Eu-155	Filtered	-0.05 U	3.4	1
RD-092	SMRD-092-GW082410	Eu-155	Suspended	-0.17 U	1.2	0.35	SMDUP-02-GW082410	Eu-155	Suspended	0.25 U	1.2	0.35
RD-092	SMRD-092-GW082410	gross_alpha	Filtered	1.68	0.45	0.27	SMDUP-02-GW082410	gross_alpha	Filtered	2.89	0.55	0.37
RD-092	SMRD-092-GW082410	gross_alpha	Suspended	0.12 U	0.55	0.15	SMDUP-02-GW082410	gross_alpha	Suspended	0.08 U	0.5	0.13
RD-092	SMRD-092-GW082410	gross_beta	Filtered	2.05	1.3	0.47	SMDUP-02-GW082410	gross_beta	Filtered	3.12	1.1	0.47
RD-092	SMRD-092-GW082410	H-3	Filtered	46 U	130	38	SMDUP-02-GW082410	H-3	Filtered	43 U	130	38
RD-092	SMRD-092-GW082410	H-3	Suspended	7.3	14	4.4	SMDUP-02-GW082410	H-3	Suspended	12.6	14	4.9
RD-092	SMRD-092-GW082410	Ho-166m	Filtered	0 U	2	0.56	SMDUP-02-GW082410	Ho-166m	Filtered	0.24 U	2.2	0.64
RD-092	SMRD-092-GW082410	Ho-166m	Suspended	0.15 U	1.1	0.33	SMDUP-02-GW082410	Ho-166m	Suspended	-0.34 U	1.2	0.35
RD-092	SMRD-092-GW082410	K-40	Filtered	-17 U	22	55	SMDUP-02-GW082410	K-40	Filtered	-6.2 U	23	9.5
RD-092	SMRD-092-GW082410	K-40	Suspended	4.9 U	12	3	SMDUP-02-GW082410	K-40	Suspended	-3 U	11	4.1
RD-092	SMRD-092-GW082410	Na-22	Filtered	0.41 U	1.5	0.44	SMDUP-02-GW082410	Na-22	Filtered	-0.02 U	1.6	0.43
RD-092	SMRD-092-GW082410	Na-22	Suspended	-0.15 U	0.84	0.25	SMDUP-02-GW082410	Na-22	Suspended	-0.02 U	0.84	0.24
RD-092	SMRD-092-GW082410	Nb-94	Filtered	-0.19 U	1.2	0.36	SMDUP-02-GW082410	Nb-94	Filtered	0.07 U	1.2	0.34
RD-092	SMRD-092-GW082410	Nb-94	Suspended	-0.09 U	0.68	0.2	SMDUP-02-GW082410	Nb-94	Suspended	-0.2 U	0.73	0.22
RD-092	SMRD-092-GW082410	Np-236	Filtered	0.69 U	2.5	0.75	SMDUP-02-GW082410	Np-236	Filtered	-0.04 U	2.9	0.84

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-092	SMRD-092-GW082410	Np-236	Suspended	0.14 U	1.1	0.32	SMDUP-02-GW082410	Np-236	Suspended	0.01 U	1.2	0.35
RD-092	SMRD-092-GW082410	Np-239	Filtered	0.2 U	7.6	2.2	SMDUP-02-GW082410	Np-239	Filtered	-1.3 U	8.7	2.6
RD-092	SMRD-092-GW082410	Np-239	Suspended	-0.3 U	3.7	1.1	SMDUP-02-GW082410	Np-239	Suspended	1 U	3.7	1.1
RD-092	SMRD-092-GW082410	Pa-231	Filtered	15 U	54	16	SMDUP-02-GW082410	Pa-231	Filtered	3 U	59	17
RD-092	SMRD-092-GW082410	Pa-231	Suspended	3.2 U	25	7.5	SMDUP-02-GW082410	Pa-231	Suspended	-1.6 U	23	6.9
RD-092	SMRD-092-GW082410	Pb-212	Filtered	0.67 U	2.2	0.76	SMDUP-02-GW082410	Pb-212	Filtered	0.62 U	2.9	0.98
RD-092	SMRD-092-GW082410	Pb-212	Suspended	0.35 U	1.2	0.37	SMDUP-02-GW082410	Pb-212	Suspended	-0.04 U	1.1	0.34
RD-092	SMRD-092-GW082410	Pb-214	Filtered	-0.5 U	3	1.3	SMDUP-02-GW082410	Pb-214	Filtered	1.13 U	3.3	0.92
RD-092	SMRD-092-GW082410	Pb-214	Suspended	0.04 U	1.5	0.51	SMDUP-02-GW082410	Pb-214	Suspended	0.91	1.6	0.44
RD-092	SMRD-092-GW082410	Sb-125	Filtered	3.2 U	11	3.4	SMDUP-02-GW082410	Sb-125	Filtered	1.2 U	15	4.3
RD-092	SMRD-092-GW082410	Sb-125	Suspended	-1.1 U	6.1	1.8	SMDUP-02-GW082410	Sb-125	Suspended	-1.1 U	6.3	1.9
RD-092	SMRD-092-GW082410	Sn-126	Filtered	0.51 U	1.3	0.4	SMDUP-02-GW082410	Sn-126	Filtered	-0.33 U	1.8	0.51
RD-092	SMRD-092-GW082410	Sn-126	Suspended	-0.09 U	0.81	0.24	SMDUP-02-GW082410	Sn-126	Suspended	0.29 U	0.82	0.25
RD-092	SMRD-092-GW082410	Sr-90	Filtered	0.04 U	0.25	0.073	SMDUP-02-GW082410	Sr-90	Filtered	0.034 U	0.15	0.043
RD-092	SMRD-092-GW082410	Sr-90	Suspended	0.091 U	0.16	0.05	SMDUP-02-GW082410	Sr-90	Suspended	0.012 U	0.16	0.046
RD-092	SMRD-092-GW082410	Tl-208	Filtered	-0.15 U	1.7	0.58	SMDUP-02-GW082410	Tl-208	Filtered	1.2	1.7	0.57
RD-092	SMRD-092-GW082410	Tl-208	Suspended	0.41	0.84	0.31	SMDUP-02-GW082410	Tl-208	Suspended	0.01 U	0.99	0.27
RD-092	SMRD-092-GW082410	Tm-171	Filtered	70 U	350	100	SMDUP-02-GW082410	Tm-171	Filtered	30 U	350	100
RD-092	SMRD-092-GW082410	Tm-171	Suspended	6 U	120	36	SMDUP-02-GW082410	Tm-171	Suspended	5 U	130	40
RD-092	SMRD-092-GW082410	U-233/234	Filtered	1.01	0.039	0.088	SMDUP-02-GW082410	U-233/234	Filtered	1	0.032	0.085
RD-092	SMRD-092-GW082410	U-233/234	Suspended	0.015 U	0.039	0.014	SMDUP-02-GW082410	U-233/234	Suspended	0.002 U	0.036	0.01
RD-092	SMRD-092-GW082410	U-235/236	Filtered	0.009 U	0.043	0.011	SMDUP-02-GW082410	U-235/236	Filtered	0.02	0.018	0.011
RD-092	SMRD-092-GW082410	U-235/236	Suspended	0.0038 U	0.031	0.0065	SMDUP-02-GW082410	U-235/236	Suspended	-0.0023 U	0.031	0.0023
RD-092	SMRD-092-GW082410	U-238	Filtered	0.742	0.015	0.072	SMDUP-02-GW082410	U-238	Filtered	0.843	0.027	0.076

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-092	SMRD-092-GW082410	U-238	Suspended	0.0103	0.025	0.01	SMDUP-02-GW082410	U-238	Suspended	0.008 U	0.029	0.01
WS-07	SMWS-07-GW082710	Ac-227	Filtered	-4.2 U	9.2	2.8	SMDUP-03-GW082710	Ac-227	Filtered	-0.3 U	7	2
WS-07	SMWS-07-GW082710	Ac-227	Suspended	1.56	2.6	0.8	SMDUP-03-GW082710	Ac-227	Suspended	0.02 U	3.6	1.1
WS-07	SMWS-07-GW082710	Ac-228	Filtered	3.4	4.7	1.5	SMDUP-03-GW082710	Ac-228	Filtered	3 U	6.6	1.8
WS-07	SMWS-07-GW082710	Ac-228	Suspended	1.46	2.4	0.73	SMDUP-03-GW082710	Ac-228	Suspended	-1.2 U	3.3	1.6
WS-07	SMWS-07-GW082710	Bi-212	Filtered	-1.1 U	12	3.4	SMDUP-03-GW082710	Bi-212	Filtered	1.2 U	12	3.5
WS-07	SMWS-07-GW082710	Bi-212	Suspended	1.8 U	5.4	1.6	SMDUP-03-GW082710	Bi-212	Suspended	1.8 U	6.1	1.8
WS-07	SMWS-07-GW082710	Bi-214	Filtered	4.6	2.8	1.3	SMDUP-03-GW082710	Bi-214	Filtered	3.3	3.2	1.1
WS-07	SMWS-07-GW082710	Bi-214	Suspended	1.87	1.3	0.5	SMDUP-03-GW082710	Bi-214	Suspended	1.52	1.8	0.73
WS-07	SMWS-07-GW082710	Cd-113m	Filtered	-1900 U	16000	4800	SMDUP-03-GW082710	Cd-113m	Filtered	-60 U	17000	4900
WS-07	SMWS-07-GW082710	Cd-113m	Suspended	1400 U	6700	2000	SMDUP-03-GW082710	Cd-113m	Suspended	20 U	6900	2000
WS-07	SMWS-07-GW082710	Co-60	Filtered	0.05 U	1.8	0.51	SMDUP-03-GW082710	Co-60	Filtered	0.03 U	2	0.55
WS-07	SMWS-07-GW082710	Co-60	Suspended	0.29 U	0.75	0.23	SMDUP-03-GW082710	Co-60	Suspended	0.12 U	0.78	0.23
WS-07	SMWS-07-GW082710	Cs-134	Filtered	-0.06 U	2.4	0.69	SMDUP-03-GW082710	Cs-134	Filtered	-0.12 U	1.7	0.49
WS-07	SMWS-07-GW082710	Cs-134	Suspended	-0.13 U	0.77	0.23	SMDUP-03-GW082710	Cs-134	Suspended	-0.21 U	0.88	0.26
WS-07	SMWS-07-GW082710	Cs-137	Filtered	1.51	1.4	0.46	SMDUP-03-GW082710	Cs-137	Filtered	0.11 U	1.5	0.42
WS-07	SMWS-07-GW082710	Cs-137	Suspended	-0.13 U	0.78	0.28	SMDUP-03-GW082710	Cs-137	Suspended	0.1 U	0.74	0.22
WS-07	SMWS-07-GW082710	Eu-152	Filtered	2.07	3.2	0.99	SMDUP-03-GW082710	Eu-152	Filtered	0.1 U	4.6	1.4
WS-07	SMWS-07-GW082710	Eu-152	Suspended	0.31 U	1.8	0.52	SMDUP-03-GW082710	Eu-152	Suspended	-0.01 U	1.7	0.5
WS-07	SMWS-07-GW082710	Eu-154	Filtered	2.5 U	12	3.5	SMDUP-03-GW082710	Eu-154	Filtered	3.2 U	13	3.8
WS-07	SMWS-07-GW082710	Eu-154	Suspended	0.7 U	5.1	1.5	SMDUP-03-GW082710	Eu-154	Suspended	0.5 U	5.5	1.6
WS-07	SMWS-07-GW082710	Eu-155	Filtered	1.14 U	3.1	0.94	SMDUP-03-GW082710	Eu-155	Filtered	0.25 U	3.1	0.92
WS-07	SMWS-07-GW082710	Eu-155	Suspended	0.17 U	1.2	0.34	SMDUP-03-GW082710	Eu-155	Suspended	0.13 U	1.2	0.35
WS-07	SMWS-07-GW082710	gross_alpha	Filtered	3.46	0.51	0.37	SMDUP-03-GW082710	gross_alpha	Filtered	4	0.42	0.39

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
WS-07	SMWS-07-GW082710	gross_alpha	Suspended	0.26 U	0.5	0.15	SMDUP-03-GW082710	gross_alpha	Suspended	0.72	0.43	0.19
WS-07	SMWS-07-GW082710	gross_beta	Filtered	5.6	1.4	0.66	SMDUP-03-GW082710	gross_beta	Filtered	7.2	2.5	1.1
WS-07	SMWS-07-GW082710	gross_beta	Suspended	4.44	0.76	0.42	SMDUP-03-GW082710	gross_beta	Suspended	0.37 U	0.81	0.25
WS-07	SMWS-07-GW082710	H-3	Filtered	22 U	140	43	SMDUP-03-GW082710	H-3	Filtered	-4 U	130	40
WS-07	SMWS-07-GW082710	H-3_Total	Filtered	21.6	28	8.8	SMDUP-03-GW082710	H-3_Total	Filtered	-3.5 U	26	7
WS-07	SMWS-07-GW082710	Ho-166m	Filtered	-0.52 U	2.3	0.67	SMDUP-03-GW082710	Ho-166m	Filtered	0.9 U	2.2	0.66
WS-07	SMWS-07-GW082710	Ho-166m	Suspended	0.21 U	1	0.29	SMDUP-03-GW082710	Ho-166m	Suspended	-0.03 U	1	0.29
WS-07	SMWS-07-GW082710	K-40	Filtered	15.9	18	5.8	SMDUP-03-GW082710	K-40	Filtered	-5.2 U	23	8.7
WS-07	SMWS-07-GW082710	K-40	Suspended	-6 U	11	7	SMDUP-03-GW082710	K-40	Suspended	4.3 U	13	4.1
WS-07	SMWS-07-GW082710	Na-22	Filtered	-0.23 U	1.6	0.45	SMDUP-03-GW082710	Na-22	Filtered	-0.24 U	1.8	0.5
WS-07	SMWS-07-GW082710	Na-22	Suspended	0.23 U	0.88	0.26	SMDUP-03-GW082710	Na-22	Suspended	-0.002 U	0.78	0.22
WS-07	SMWS-07-GW082710	Nb-94	Filtered	0.13 U	1.1	0.31	SMDUP-03-GW082710	Nb-94	Filtered	-0.003 U	1.3	0.35
WS-07	SMWS-07-GW082710	Nb-94	Suspended	0.23	0.49	0.15	SMDUP-03-GW082710	Nb-94	Suspended	0.15 U	0.53	0.16
WS-07	SMWS-07-GW082710	Np-236	Filtered	0.05 U	2.8	0.84	SMDUP-03-GW082710	Np-236	Filtered	0.21 U	1.9	0.56
WS-07	SMWS-07-GW082710	Np-236	Suspended	0.11 U	1.2	0.36	SMDUP-03-GW082710	Np-236	Suspended	0.19 U	1.2	0.37
WS-07	SMWS-07-GW082710	Np-239	Filtered	2.6 U	6.6	2	SMDUP-03-GW082710	Np-239	Filtered	-0.06 U	7.8	2.3
WS-07	SMWS-07-GW082710	Np-239	Suspended	-0.002 U	3.6	1	SMDUP-03-GW082710	Np-239	Suspended	-0.8 U	3.6	1.1
WS-07	SMWS-07-GW082710	Pa-231	Filtered	1 U	59	17	SMDUP-03-GW082710	Pa-231	Filtered	7 U	59	17
WS-07	SMWS-07-GW082710	Pa-231	Suspended	-2.9 U	26	7.7	SMDUP-03-GW082710	Pa-231	Suspended	-0.7 U	23	6.7
WS-07	SMWS-07-GW082710	Pb-212	Filtered	1.42	2.4	0.91	SMDUP-03-GW082710	Pb-212	Filtered	0.6 U	2.7	0.84
WS-07	SMWS-07-GW082710	Pb-212	Suspended	1.03	0.97	0.33	SMDUP-03-GW082710	Pb-212	Suspended	0.34 U	1.2	0.41
WS-07	SMWS-07-GW082710	Pb-214	Filtered	0.74 U	3.2	0.9	SMDUP-03-GW082710	Pb-214	Filtered	2.5	3.1	1.1
WS-07	SMWS-07-GW082710	Pb-214	Suspended	1.37	1.2	0.38	SMDUP-03-GW082710	Pb-214	Suspended	1.13	1.3	0.47
WS-07	SMWS-07-GW082710	Sb-125	Filtered	2.4 U	13	3.8	SMDUP-03-GW082710	Sb-125	Filtered	-0.1 U	14	4

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
WS-07	SMWS-07-GW082710	Sb-125	Suspended	2 U	5.7	1.7	SMDUP-03-GW082710	Sb-125	Suspended	-0.4 U	6.2	1.8
WS-07	SMWS-07-GW082710	Sn-126	Filtered	0.46 U	1.5	0.43	SMDUP-03-GW082710	Sn-126	Filtered	0.56 U	1.5	0.45
WS-07	SMWS-07-GW082710	Sn-126	Suspended	-0.001 U	0.74	0.21	SMDUP-03-GW082710	Sn-126	Suspended	0.2 U	0.84	0.25
WS-07	SMWS-07-GW082710	Sr-90	Filtered	0.092 U	0.19	0.057	SMDUP-03-GW082710	Sr-90	Filtered	0.025 U	0.18	0.051
WS-07	SMWS-07-GW082710	Sr-90	Suspended	0.107	0.14	0.046	SMDUP-03-GW082710	Sr-90	Suspended	-0.056 U	0.15	0.038
WS-07	SMWS-07-GW082710	Tl-208	Filtered	-0.04 U	1.6	0.46	SMDUP-03-GW082710	Tl-208	Filtered	0.01 U	2	0.53
WS-07	SMWS-07-GW082710	Tl-208	Suspended	-0.7 U	1	1.2	SMDUP-03-GW082710	Tl-208	Suspended	0.14 U	0.9	0.33
WS-07	SMWS-07-GW082710	Tm-171	Filtered	0 U	380	110	SMDUP-03-GW082710	Tm-171	Filtered	100 U	340	100
WS-07	SMWS-07-GW082710	U-233/234	Filtered	1.36	0.015	0.077	SMDUP-03-GW082710	U-233/234	Filtered	1.51	0.02	0.085
WS-07	SMWS-07-GW082710	U-233/234	Suspended	0.018	0.033	0.014	SMDUP-03-GW082710	U-233/234	Suspended	0.0046 U	0.013	0.0083
WS-07	SMWS-07-GW082710	U-235/236	Filtered	0.085	0.007	0.015	SMDUP-03-GW082710	U-235/236	Filtered	0.061	0.007	0.013
WS-07	SMWS-07-GW082710	U-235/236	Suspended	0 U	0.018	0.0025	SMDUP-03-GW082710	U-235/236	Suspended	0 U	0.016	0.0022
WS-07	SMWS-07-GW082710	U-238	Filtered	1.06	0.015	0.064	SMDUP-03-GW082710	U-238	Filtered	1.14	0.006	0.069
WS-07	SMWS-07-GW082710	U-238	Suspended	0.0033 U	0.015	0.0077	SMDUP-03-GW082710	U-238	Suspended	0.0119 K	0.013	0.0096
RD-33B	SMRD-33B-GW090210	Ac-227	Filtered	0.3 U	8.7	2.5	SMDUP-04-GW090210	Ac-227	Filtered	-3.5 U	11	3.5
RD-33B	SMRD-33B-GW090210	Ac-227	Suspended	0.09 U	3.2	0.93	SMDUP-04-GW090210	Ac-227	Suspended	-0.69 U	2.7	0.8
RD-33B	SMRD-33B-GW090210	Ac-228	Filtered	7.5	5.1	1.8	SMDUP-04-GW090210	Ac-228	Filtered	4	4.3	1.4
RD-33B	SMRD-33B-GW090210	Ac-228	Suspended	1.06	2.2	0.66	SMDUP-04-GW090210	Ac-228	Suspended	0.72 U	1.7	0.52
RD-33B	SMRD-33B-GW090210	Am-241	Filtered	0.023	0.047	0.015	SMDUP-04-GW090210	Am-241	Filtered	0.016 U	0.066	0.018
RD-33B	SMRD-33B-GW090210	Am-241	Suspended	0.0101 U	0.037	0.0099	SMDUP-04-GW090210	Am-241	Suspended	0.017 U	0.046	0.014
RD-33B	SMRD-33B-GW090210	Bi-212	Filtered	0 U	13	3.8	SMDUP-04-GW090210	Bi-212	Filtered	4.3 U	12	3.5
RD-33B	SMRD-33B-GW090210	Bi-212	Suspended	0.08 U	4.1	1.2	SMDUP-04-GW090210	Bi-212	Suspended	0.5 U	3.7	1.1
RD-33B	SMRD-33B-GW090210	Bi-214	Filtered	-2.2 U	3.6	3.2	SMDUP-04-GW090210	Bi-214	Filtered	2.4	3.5	0.99
RD-33B	SMRD-33B-GW090210	Bi-214	Suspended	1.36	1.4	0.56	SMDUP-04-GW090210	Bi-214	Suspended	0.27 U	1.1	0.38

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33B	SMRD-33B-GW090210	C-14	Filtered	0.57 U	2.2	0.67	SMDUP-04-GW090210	C-14	Filtered	1.45	2.4	0.73
RD-33B	SMRD-33B-GW090210	Cd-113m	Filtered	2200 U	16000	4600	SMDUP-04-GW090210	Cd-113m	Filtered	-2000 U	18000	5400
RD-33B	SMRD-33B-GW090210	Cd-113m	Suspended	1300 U	5800	1700	SMDUP-04-GW090210	Cd-113m	Suspended	-1200 U	4500	1400
RD-33B	SMRD-33B-GW090210	Cm-243/244	Filtered	0.025 U	0.081	0.023	SMDUP-04-GW090210	Cm-243/244	Filtered	0.033 U	0.11	0.032
RD-33B	SMRD-33B-GW090210	Cm-243/244	Suspended	0.024 U	0.1	0.029	SMDUP-04-GW090210	Cm-243/244	Suspended	0.017 U	0.068	0.019
RD-33B	SMRD-33B-GW090210	Cm-245/246	Filtered	0.028	0.023	0.01	SMDUP-04-GW090210	Cm-245/246	Filtered	0.0061 U	0.03	0.008
RD-33B	SMRD-33B-GW090210	Cm-245/246	Suspended	0.017	0.033	0.01	SMDUP-04-GW090210	Cm-245/246	Suspended	-0.004 U	0.045	0.011
RD-33B	SMRD-33B-GW090210	Co-60	Filtered	-0.23 U	1.6	0.45	SMDUP-04-GW090210	Co-60	Filtered	0.54 U	1.4	0.42
RD-33B	SMRD-33B-GW090210	Co-60	Suspended	-0.0001 U	0.66	0.18	SMDUP-04-GW090210	Co-60	Suspended	-0.02 U	0.64	0.18
RD-33B	SMRD-33B-GW090210	Cs-134	Filtered	0.55 U	1.4	0.43	SMDUP-04-GW090210	Cs-134	Filtered	0.02 U	1.5	0.43
RD-33B	SMRD-33B-GW090210	Cs-134	Suspended	0.006 U	0.49	0.14	SMDUP-04-GW090210	Cs-134	Suspended	0.035 U	0.3	0.087
RD-33B	SMRD-33B-GW090210	Cs-137	Filtered	0.17 U	1.6	0.46	SMDUP-04-GW090210	Cs-137	Filtered	0.45 U	1.6	0.47
RD-33B	SMRD-33B-GW090210	Cs-137	Suspended	-0.18 U	0.66	0.2	SMDUP-04-GW090210	Cs-137	Suspended	0.15 U	0.45	0.13
RD-33B	SMRD-33B-GW090210	Eu-152	Filtered	0.02 U	2.9	0.84	SMDUP-04-GW090210	Eu-152	Filtered	0.1 U	3.4	1
RD-33B	SMRD-33B-GW090210	Eu-152	Suspended	0.31 U	1.4	0.42	SMDUP-04-GW090210	Eu-152	Suspended	-0.04 U	1	0.29
RD-33B	SMRD-33B-GW090210	Eu-154	Filtered	0.1 U	12	3.4	SMDUP-04-GW090210	Eu-154	Filtered	-4.4 U	13	3.9
RD-33B	SMRD-33B-GW090210	Eu-154	Suspended	-1 U	5.4	1.6	SMDUP-04-GW090210	Eu-154	Suspended	0.03 U	4	1.1
RD-33B	SMRD-33B-GW090210	Eu-155	Filtered	0.44 U	2.9	0.87	SMDUP-04-GW090210	Eu-155	Filtered	-1.2 U	4.2	1.3
RD-33B	SMRD-33B-GW090210	Eu-155	Suspended	0.24 U	1	0.3	SMDUP-04-GW090210	Eu-155	Suspended	0.17 U	0.59	0.18
RD-33B	SMRD-33B-GW090210	gross_alpha	Filtered	3.64	0.48	0.41	SMDUP-04-GW090210	gross_alpha	Filtered	1.75	0.51	0.28
RD-33B	SMRD-33B-GW090210	gross_alpha	Suspended	1.37	0.64	0.29	SMDUP-04-GW090210	gross_alpha	Suspended	0.71	0.69	0.25
RD-33B	SMRD-33B-GW090210	gross_beta	Filtered	7.03	2.2	0.93	SMDUP-04-GW090210	gross_beta	Filtered	4.2	2.5	0.89
RD-33B	SMRD-33B-GW090210	gross_beta	Suspended	0.3 U	0.77	0.23	SMDUP-04-GW090210	gross_beta	Suspended	0.63	0.72	0.24
RD-33B	SMRD-33B-GW090210	H-3	Filtered	-32 U	140	41	SMDUP-04-GW090210	H-3	Filtered	-44 U	140	41

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33B	SMRD-33B-GW090210	Ho-166m	Filtered	-0.46 U	2.6	0.75	SMDUP-04-GW090210	Ho-166m	Filtered	-0.88 U	2.5	0.76
RD-33B	SMRD-33B-GW090210	Ho-166m	Suspended	0.11 U	0.86	0.25	SMDUP-04-GW090210	Ho-166m	Suspended	-0.19 U	0.76	0.22
RD-33B	SMRD-33B-GW090210	I-129	Filtered	0.09 U	0.43	0.13	SMDUP-04-GW090210	I-129	Filtered	0.1 U	0.45	0.14
RD-33B	SMRD-33B-GW090210	I-129	Suspended	0.09 U	0.5	0.15	SMDUP-04-GW090210	I-129	Suspended	0.14 U	0.46	0.14
RD-33B	SMRD-33B-GW090210	K-40	Filtered	-23 U	26	35	SMDUP-04-GW090210	K-40	Filtered	-3.6 U	18	4.9
RD-33B	SMRD-33B-GW090210	K-40	Suspended	3.7 U	8.8	2.5	SMDUP-04-GW090210	K-40	Suspended	-6.9 U	9.8	6.9
RD-33B	SMRD-33B-GW090210	Na-22	Filtered	0.03 U	1.6	0.45	SMDUP-04-GW090210	Na-22	Filtered	-0.04 U	1.6	0.45
RD-33B	SMRD-33B-GW090210	Na-22	Suspended	0.03 U	0.72	0.2	SMDUP-04-GW090210	Na-22	Suspended	0.006 U	0.56	0.15
RD-33B	SMRD-33B-GW090210	Nb-94	Filtered	0.04 U	1.4	0.4	SMDUP-04-GW090210	Nb-94	Filtered	0.55	1.1	0.34
RD-33B	SMRD-33B-GW090210	Nb-94	Suspended	0.21 U	0.59	0.18	SMDUP-04-GW090210	Nb-94	Suspended	-0.1 U	0.5	0.15
RD-33B	SMRD-33B-GW090210	Np-236	Filtered	-0.55 U	2.7	0.81	SMDUP-04-GW090210	Np-236	Filtered	-0.3 U	3.7	1.1
RD-33B	SMRD-33B-GW090210	Np-236	Suspended	-0.32 U	1.1	0.32	SMDUP-04-GW090210	Np-236	Suspended	-0.18 U	0.69	0.21
RD-33B	SMRD-33B-GW090210	Np-239	Filtered	-0.2 U	7.9	2.3	SMDUP-04-GW090210	Np-239	Filtered	3.4 U	9.1	2.8
RD-33B	SMRD-33B-GW090210	Np-239	Suspended	-1 U	3.4	1	SMDUP-04-GW090210	Np-239	Suspended	0.53 U	2.2	0.66
RD-33B	SMRD-33B-GW090210	Pa-231	Filtered	18 U	55	16	SMDUP-04-GW090210	Pa-231	Filtered	0 U	73	21
RD-33B	SMRD-33B-GW090210	Pa-231	Suspended	5.3 U	23	6.8	SMDUP-04-GW090210	Pa-231	Suspended	-3.4 U	18	5.4
RD-33B	SMRD-33B-GW090210	Pb-212	Filtered	0.676 U	2.5	0.996	SMDUP-04-GW090210	Pb-212	Filtered	1.9	3	1.1
RD-33B	SMRD-33B-GW090210	Pb-212	Suspended	0.32 U	0.93	0.34	SMDUP-04-GW090210	Pb-212	Suspended	0.07 U	0.69	0.23
RD-33B	SMRD-33B-GW090210	Pb-214	Filtered	4.9	2.1	1.1	SMDUP-04-GW090210	Pb-214	Filtered	5.53	2.9	0.96
RD-33B	SMRD-33B-GW090210	Pb-214	Suspended	1.49	0.81	0.34	SMDUP-04-GW090210	Pb-214	Suspended	1.38	0.83	0.28
RD-33B	SMRD-33B-GW090210	Pu-238	Filtered	0.003 U	0.048	0.011	SMDUP-04-GW090210	Pu-238	Filtered	-0.006 U	0.061	0.016
RD-33B	SMRD-33B-GW090210	Pu-238	Suspended	0.059	0.048	0.018	SMDUP-04-GW090210	Pu-238	Suspended	0.013 U	0.041	0.012
RD-33B	SMRD-33B-GW090210	Pu-239/240	Filtered	-0.0018 U	0.025	0.0018	SMDUP-04-GW090210	Pu-239/240	Filtered	-0.0054 U	0.033	0.0064
RD-33B	SMRD-33B-GW090210	Pu-239/240	Suspended	-0.0059 U	0.028	0.0048	SMDUP-04-GW090210	Pu-239/240	Suspended	-0.0018 U	0.024	0.0018

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33B	SMRD-33B-GW090210	Pu-242	Filtered	0.0012 U	0.029	0.0055	SMDUP-04-GW090210	Pu-242	Filtered	0.0054 U	0.023	0.006
RD-33B	SMRD-33B-GW090210	Pu-242	Suspended	-0.0038 U	0.032	0.0066	SMDUP-04-GW090210	Pu-242	Suspended	-0.0024 U	0.036	0.006
RD-33B	SMRD-33B-GW090210	Ra-226	Filtered	1.22	0.17	0.14	SMDUP-04-GW090210	Ra-226	Filtered	0.9	0.16	0.11
RD-33B	SMRD-33B-GW090210	Ra-226	Suspended	0.166	0.075	0.038	SMDUP-04-GW090210	Ra-226	Suspended	0.115	0.099	0.037
RD-33B	SMRD-33B-GW090210	Sb-125	Filtered	-2.5 U	14	4.1	SMDUP-04-GW090210	Sb-125	Filtered	-2.9 U	17	5.1
RD-33B	SMRD-33B-GW090210	Sb-125	Suspended	1.5 U	4.3	1.3	SMDUP-04-GW090210	Sb-125	Suspended	-0.04 U	2.6	0.75
RD-33B	SMRD-33B-GW090210	Sn-126	Filtered	-0.05 U	1.3	0.38	SMDUP-04-GW090210	Sn-126	Filtered	0.17 U	1.7	0.5
RD-33B	SMRD-33B-GW090210	Sn-126	Suspended	0.003 U	0.73	0.21	SMDUP-04-GW090210	Sn-126	Suspended	0.01 U	0.47	0.13
RD-33B	SMRD-33B-GW090210	Sr-90	Filtered	-0.041 U	0.21	0.058	SMDUP-04-GW090210	Sr-90	Filtered	0.031 U	0.23	0.067
RD-33B	SMRD-33B-GW090210	Sr-90	Suspended	0.048 U	0.17	0.05	SMDUP-04-GW090210	Sr-90	Suspended	-0.031 U	0.14	0.038
RD-33B	SMRD-33B-GW090210	Tc-99	Filtered	-0.33 U	1.8	0.53	SMDUP-04-GW090210	Tc-99	Filtered	-0.36 U	1.6	0.46
RD-33B	SMRD-33B-GW090210	Tl-208	Filtered	-1 U	2	15	SMDUP-04-GW090210	Tl-208	Filtered	0.71 U	1.6	0.62
RD-33B	SMRD-33B-GW090210	Tl-208	Suspended	-1 U	0.9	1.2	SMDUP-04-GW090210	Tl-208	Suspended	-0.24 U	0.57	0.38
RD-33B	SMRD-33B-GW090210	Tm-171	Filtered	66.8 U	330	100	SMDUP-04-GW090210	Tm-171	Filtered	1 U	460	140
RD-33B	SMRD-33B-GW090210	Tm-171	Suspended	-26 U	97	29	SMDUP-04-GW090210	Tm-171	Suspended	-7 U	68	20
RD-33B	SMRD-33B-GW090210	U-233/234	Filtered	0.214	0.029	0.034	SMDUP-04-GW090210	U-233/234	Filtered	0.316	0.029	0.042
RD-33B	SMRD-33B-GW090210	U-233/234	Suspended	-0.003 U	0.045	0.013	SMDUP-04-GW090210	U-233/234	Suspended	0.0025 U	0.029	0.0096
RD-33B	SMRD-33B-GW090210	U-235/236	Filtered	0.0037 U	0.03	0.0063	SMDUP-04-GW090210	U-235/236	Filtered	0.022	0.031	0.012
RD-33B	SMRD-33B-GW090210	U-235/236	Suspended	0.0039 U	0.032	0.0074	SMDUP-04-GW090210	U-235/236	Suspended	-0.0019 U	0.026	0.006
RD-33B	SMRD-33B-GW090210	U-238	Filtered	0.101	0.013	0.023	SMDUP-04-GW090210	U-238	Filtered	0.097	0.025	0.023
RD-33B	SMRD-33B-GW090210	U-238	Suspended	-0.0047 U	0.037	0.0094	SMDUP-04-GW090210	U-238	Suspended	0.0124	0.021	0.0098
RD-087	SMRD-087-GW090210	Ac-227	Filtered	-3.3 U	9	2.7	SMDUP-05-GW090210Q	Ac-227	Filtered	0.6 U	13	3.9
RD-087	SMRD-087-GW090210	Ac-227	Suspended	-2.5 U	4.3	1.3	SMDUP-05-GW090210Q	Ac-227	Suspended	-1.2 U	2.9	0.87
RD-087	SMRD-087-GW090210	Ac-228	Suspended	1.66	2.2	0.7	SMDUP-05-GW090210Q	Ac-228	Suspended	0 U	2.3	0.66

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-087	SMRD-087-GW090210	Bi-212	Filtered	-2.6 U	12	3.5	SMDUP-05-GW090210Q	Bi-212	Filtered	5.9	8.3	2.8
RD-087	SMRD-087-GW090210	Bi-212	Suspended	3.2	6.2	1.9	SMDUP-05-GW090210Q	Bi-212	Suspended	0.5 U	4.4	1.3
RD-087	SMRD-087-GW090210	Bi-214	Filtered	-0.8 U	3.2	1.5	SMDUP-05-GW090210Q	Bi-214	Filtered	1.16 U	2.9	0.92
RD-087	SMRD-087-GW090210	Bi-214	Suspended	1.17	1.8	0.81	SMDUP-05-GW090210Q	Bi-214	Suspended	-0.24 U	1.2	0.47
RD-087	SMRD-087-GW090210	Cd-113m	Filtered	3800 U	14000	4200	SMDUP-05-GW090210Q	Cd-113m	Filtered	-3400 U	15000	4400
RD-087	SMRD-087-GW090210	Cd-113m	Suspended	2700	5300	1600	SMDUP-05-GW090210Q	Cd-113m	Suspended	300 U	4200	1200
RD-087	SMRD-087-GW090210	Co-60	Filtered	0.3 U	1.6	0.46	SMDUP-05-GW090210Q	Co-60	Filtered	-0.11 U	1.3	0.39
RD-087	SMRD-087-GW090210	Co-60	Suspended	-0.13 U	0.83	0.24	SMDUP-05-GW090210Q	Co-60	Suspended	0 U	0.93	0.26
RD-087	SMRD-087-GW090210	Cs-134	Filtered	0.08 U	1.5	0.44	SMDUP-05-GW090210Q	Cs-134	Filtered	-0.23 U	1.6	0.47
RD-087	SMRD-087-GW090210	Cs-134	Suspended	-0.22 U	0.84	0.25	SMDUP-05-GW090210Q	Cs-134	Suspended	0.43 SK	0.59	0.12
RD-087	SMRD-087-GW090210	Cs-137	Filtered	-0.03 U	1.4	0.39	SMDUP-05-GW090210Q	Cs-137	Filtered	-0.1 U	1.2	0.36
RD-087	SMRD-087-GW090210	Cs-137	Suspended	0.26 U	0.66	0.2	SMDUP-05-GW090210Q	Cs-137	Suspended	0.19 U	0.53	0.16
RD-087	SMRD-087-GW090210	Eu-152	Filtered	-0.9 U	4	1.2	SMDUP-05-GW090210Q	Eu-152	Filtered	0.49 U	3.3	0.97
RD-087	SMRD-087-GW090210	Eu-152	Suspended	0.51 U	1.8	0.53	SMDUP-05-GW090210Q	Eu-152	Suspended	0.49 U	1.2	0.36
RD-087	SMRD-087-GW090210	Eu-154	Filtered	2 U	10	3	SMDUP-05-GW090210Q	Eu-154	Filtered	-0.6 U	10	2.9
RD-087	SMRD-087-GW090210	Eu-154	Suspended	-1.6 U	6.7	2	SMDUP-05-GW090210Q	Eu-154	Suspended	2	4.2	1.3
RD-087	SMRD-087-GW090210	Eu-155	Filtered	1.05 U	3.2	0.96	SMDUP-05-GW090210Q	Eu-155	Filtered	0.61 U	3.2	0.94
RD-087	SMRD-087-GW090210	Eu-155	Suspended	0.01 U	1.2	0.35	SMDUP-05-GW090210Q	Eu-155	Suspended	-0.01 U	0.77	0.23
RD-087	SMRD-087-GW090210	gross_alpha	Filtered	17.9	0.4	1.1	SMDUP-05-GW090210Q	gross_alpha	Filtered	16.6	0.5	1
RD-087	SMRD-087-GW090210	gross_alpha	Suspended	0.43	0.74	0.23	SMDUP-05-GW090210Q	gross_alpha	Suspended	3.26	0.44	0.36
RD-087	SMRD-087-GW090210	gross_beta	Filtered	11.7	2	1.1	SMDUP-05-GW090210Q	gross_beta	Filtered	12.8	2.3	1.3
RD-087	SMRD-087-GW090210	gross_beta	Suspended	3.09	0.73	0.35	SMDUP-05-GW090210Q	gross_beta	Suspended	4.72	0.73	0.42
RD-087	SMRD-087-GW090210	H-3	Filtered	7630	130	350	SMDUP-05-GW090210Q	H-3	Filtered	8250	130	370
RD-087	SMRD-087-GW090210	Ho-166m	Filtered	-0.25 U	2.3	0.65	SMDUP-05-GW090210Q	Ho-166m	Filtered	0.07 U	1.9	0.55

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-087	SMRD-087-GW090210	Ho-166m	Suspended	-0.01 U	1	0.3	SMDUP-05-GW090210Q	Ho-166m	Suspended	-0.16 U	0.84	0.25
RD-087	SMRD-087-GW090210	K-40	Filtered	13.6	15	4.9	SMDUP-05-GW090210Q	K-40	Filtered	5.1 U	25	6.3
RD-087	SMRD-087-GW090210	K-40	Suspended	-5.3 U	11	5.3	SMDUP-05-GW090210Q	K-40	Suspended	4.4	6	1.9
RD-087	SMRD-087-GW090210	Na-22	Filtered	-0.28 U	1.8	0.51	SMDUP-05-GW090210Q	Na-22	Filtered	0.06 U	1.4	0.4
RD-087	SMRD-087-GW090210	Na-22	Suspended	0.14 U	0.84	0.24	SMDUP-05-GW090210Q	Na-22	Suspended	0.02 U	0.67	0.19
RD-087	SMRD-087-GW090210	Nb-94	Filtered	-0.4 U	1.3	0.38	SMDUP-05-GW090210Q	Nb-94	Filtered	-0.003 U	1.2	0.34
RD-087	SMRD-087-GW090210	Nb-94	Suspended	-0.19 U	0.65	0.19	SMDUP-05-GW090210Q	Nb-94	Suspended	0 U	0.49	0.14
RD-087	SMRD-087-GW090210	Np-236	Filtered	-0.1 U	2.7	0.8	SMDUP-05-GW090210Q	Np-236	Filtered	0.17 U	2.6	0.78
RD-087	SMRD-087-GW090210	Np-236	Suspended	0.12 U	1.1	0.34	SMDUP-05-GW090210Q	Np-236	Suspended	-0.15 U	0.53	0.16
RD-087	SMRD-087-GW090210	Np-239	Filtered	-1.8 U	8	2.4	SMDUP-05-GW090210Q	Np-239	Filtered	5.2	7.5	2.3
RD-087	SMRD-087-GW090210	Np-239	Suspended	0.23 U	2.9	0.86	SMDUP-05-GW090210Q	Np-239	Suspended	-0.62 U	2.2	0.65
RD-087	SMRD-087-GW090210	Pa-231	Filtered	23	47	14	SMDUP-05-GW090210Q	Pa-231	Filtered	-0.5 U	58	17
RD-087	SMRD-087-GW090210	Pa-231	Suspended	8 U	27	8.2	SMDUP-05-GW090210Q	Pa-231	Suspended	0.7 U	18	5.2
RD-087	SMRD-087-GW090210	Pb-212	Filtered	0.8 U	2.6	0.97	SMDUP-05-GW090210Q	Pb-212	Filtered	0.87 U	2.9	0.87
RD-087	SMRD-087-GW090210	Pb-212	Suspended	0.83	1.3	0.47	SMDUP-05-GW090210Q	Pb-212	Suspended	0.07 U	0.77	0.25
RD-087	SMRD-087-GW090210	Pb-214	Filtered	-0.15 U	3	0.94	SMDUP-05-GW090210Q	Pb-214	Filtered	1.38	2.5	0.83
RD-087	SMRD-087-GW090210	Pb-214	Suspended	0.26 U	1.4	0.52	SMDUP-05-GW090210Q	Pb-214	Suspended	-0.13 U	0.97	0.36
RD-087	SMRD-087-GW090210	Sb-125	Filtered	1.6 U	13	3.8	SMDUP-05-GW090210Q	Sb-125	Filtered	-0.4 U	15	4.4
RD-087	SMRD-087-GW090210	Sb-125	Suspended	-1.8 U	6.3	1.9	SMDUP-05-GW090210Q	Sb-125	Suspended	-0.4 U	3.8	1.1
RD-087	SMRD-087-GW090210	Sn-126	Filtered	0.55 U	1.5	0.45	SMDUP-05-GW090210Q	Sn-126	Filtered	-0.24 U	1.4	0.41
RD-087	SMRD-087-GW090210	Sn-126	Suspended	0.18 U	0.84	0.25	SMDUP-05-GW090210Q	Sn-126	Suspended	0.29	0.57	0.17
RD-087	SMRD-087-GW090210	Sr-90	Filtered	0.003 U	0.17	0.05	SMDUP-05-GW090210Q	Sr-90	Filtered	0.01 U	0.13	0.039
RD-087	SMRD-087-GW090210	Sr-90	Suspended	-0.057 U	0.11	0.029	SMDUP-05-GW090210Q	Sr-90	Suspended	0.01 U	0.1	0.03
RD-087	SMRD-087-GW090210	Tl-208	Filtered	-1 U	1.9	3.1	SMDUP-05-GW090210Q	Tl-208	Filtered	0.32 U	1.7	0.57

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-087	SMRD-087-GW090210	Tl-208	Suspended	-0.06 U	0.99	0.31	SMDUP-05-GW090210Q	Tl-208	Suspended	-0.2 U	0.66	0.39
RD-087	SMRD-087-GW090210	Tm-171	Filtered	20 U	360	110	SMDUP-05-GW090210Q	Tm-171	Filtered	200 U	440	130
RD-087	SMRD-087-GW090210	Tm-171	Suspended	12 U	130	39	SMDUP-05-GW090210Q	Tm-171	Suspended	-4 U	60	18
RD-087	SMRD-087-GW090210	U-233/234	Filtered	8.58	0.03	0.38	SMDUP-05-GW090210Q	U-233/234	Filtered	8.92	0.007	0.4
RD-087	SMRD-087-GW090210	U-233/234	Suspended	-0.0044 U	0.015	0.0046	SMDUP-05-GW090210Q	U-233/234	Suspended	0.0075	0.0056	0.0062
RD-087	SMRD-087-GW090210	U-235/236	Filtered	0.361	0.019	0.034	SMDUP-05-GW090210Q	U-235/236	Filtered	0.434	0.022	0.041
RD-087	SMRD-087-GW090210	U-235/236	Suspended	0.0103	0.007	0.0052	SMDUP-05-GW090210Q	U-235/236	Suspended	0 U	0.007	0.0026
RD-087	SMRD-087-GW090210	U-238	Filtered	8.14	0.02	0.37	SMDUP-05-GW090210Q	U-238	Filtered	8.53	0.007	0.39
RD-087	SMRD-087-GW090210	U-238	Suspended	-0.0058 U	0.019	0.0046	SMDUP-05-GW090210Q	U-238	Suspended	0.00002 U	0.015	0.0051
RD-095	SMRD-095-GW090210	Ac-227	Filtered	-0.2 U	12	3.5	SMDUP-06-GW090210Q	Ac-227	Filtered	0 U	11	3.3
RD-095	SMRD-095-GW090210	Ac-227	Suspended	-0.06 U	6	1.8	SMDUP-06-GW090210Q	Ac-227	Suspended	0.08 U	4.3	1.3
RD-095	SMRD-095-GW090210	Ac-228	Suspended	0.2 U	2.9	0.73	SMDUP-06-GW090210Q	Ac-228	Suspended	0 U	3.4	0.98
RD-095	SMRD-095-GW090210	Bi-212	Filtered	-1.3 U	13	3.7	SMDUP-06-GW090210Q	Bi-212	Filtered	1.8 U	12	3.5
RD-095	SMRD-095-GW090210	Bi-212	Suspended	1.6 U	6.4	1.9	SMDUP-06-GW090210Q	Bi-212	Suspended	2 U	4.8	1.4
RD-095	SMRD-095-GW090210	Bi-214	Filtered	1.8	3.5	1.3	SMDUP-06-GW090210Q	Bi-214	Filtered	-0.8 U	3.1	1.3
RD-095	SMRD-095-GW090210	Bi-214	Suspended	-0.59 U	1.9	0.95	SMDUP-06-GW090210Q	Bi-214	Suspended	-0.9 U	1.7	1.7
RD-095	SMRD-095-GW090210	Cd-113m	Filtered	6500 U	16000	4900	SMDUP-06-GW090210Q	Cd-113m	Filtered	-3500 U	16000	4700
RD-095	SMRD-095-GW090210	Cd-113m	Suspended	-500 U	5500	1600	SMDUP-06-GW090210Q	Cd-113m	Suspended	-2000 U	7500	2300
RD-095	SMRD-095-GW090210	Co-60	Filtered	0.27 U	1.8	0.51	SMDUP-06-GW090210Q	Co-60	Filtered	-0.34 U	1.7	0.49
RD-095	SMRD-095-GW090210	Co-60	Suspended	0.34	0.7	0.21	SMDUP-06-GW090210Q	Co-60	Suspended	0 U	0.68	0.18
RD-095	SMRD-095-GW090210	Cs-134	Filtered	-0.42 U	1.6	0.46	SMDUP-06-GW090210Q	Cs-134	Filtered	-0.52 U	1.5	0.46
RD-095	SMRD-095-GW090210	Cs-134	Suspended	-0.05 U	0.78	0.23	SMDUP-06-GW090210Q	Cs-134	Suspended	0 U	1.1	0.33
RD-095	SMRD-095-GW090210	Cs-137	Filtered	0.69 U	1.6	0.47	SMDUP-06-GW090210Q	Cs-137	Filtered	0.24 U	1.4	0.42
RD-095	SMRD-095-GW090210	Cs-137	Suspended	0.15 U	0.76	0.22	SMDUP-06-GW090210Q	Cs-137	Suspended	-0.16 U	0.77	0.35

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-095	SMRD-095-GW090210	Eu-152	Filtered	-0.1 U	4.8	1.4	SMDUP-06-GW090210Q	Eu-152	Filtered	-0.03 U	3.3	0.94
RD-095	SMRD-095-GW090210	Eu-152	Suspended	-0.04 U	1.4	0.42	SMDUP-06-GW090210Q	Eu-152	Suspended	-0.19 U	1.7	0.51
RD-095	SMRD-095-GW090210	Eu-154	Filtered	0 U	17	4.9	SMDUP-06-GW090210Q	Eu-154	Filtered	-3.6 U	13	3.9
RD-095	SMRD-095-GW090210	Eu-154	Suspended	-0.5 U	5.7	1.7	SMDUP-06-GW090210Q	Eu-154	Suspended	-0.9 U	5.7	1.6
RD-095	SMRD-095-GW090210	Eu-155	Filtered	0.86 U	2.8	0.85	SMDUP-06-GW090210Q	Eu-155	Filtered	0.08 U	3.4	1
RD-095	SMRD-095-GW090210	Eu-155	Suspended	0.17 U	1.2	0.37	SMDUP-06-GW090210Q	Eu-155	Suspended	0.003 U	1.2	0.34
RD-095	SMRD-095-GW090210	gross_alpha	Filtered	15.7	0.7	1.1	SMDUP-06-GW090210Q	gross_alpha	Filtered	12.7	0.47	0.88
RD-095	SMRD-095-GW090210	gross_alpha	Suspended	4.71	0.93	0.61	SMDUP-06-GW090210Q	gross_alpha	Suspended	3.85	0.78	0.48
RD-095	SMRD-095-GW090210	gross_beta	Filtered	11.5	2.2	1.2	SMDUP-06-GW090210Q	gross_beta	Filtered	13.9	2.4	1.3
RD-095	SMRD-095-GW090210	gross_beta	Suspended	2.36	0.77	0.34	SMDUP-06-GW090210Q	gross_beta	Suspended	3.38	0.85	0.41
RD-095	SMRD-095-GW090210	H-3	Filtered	59700	200	2700	SMDUP-06-GW090210Q	H-3	Filtered	54000	100	2400
RD-095	SMRD-095-GW090210	Ho-166m	Filtered	-0.04 U	1.8	0.5	SMDUP-06-GW090210Q	Ho-166m	Filtered	-0.58 U	2.3	0.68
RD-095	SMRD-095-GW090210	Ho-166m	Suspended	-0.14 U	1.1	0.33	SMDUP-06-GW090210Q	Ho-166m	Suspended	0.18 U	1.1	0.32
RD-095	SMRD-095-GW090210	K-40	Filtered	-19 U	25	32	SMDUP-06-GW090210Q	K-40	Filtered	33	4	4.4
RD-095	SMRD-095-GW090210	K-40	Suspended	8.1	12	3.3	SMDUP-06-GW090210Q	K-40	Suspended	-6.2 U	11	8.7
RD-095	SMRD-095-GW090210	Na-22	Filtered	-0.1 U	1.9	0.54	SMDUP-06-GW090210Q	Na-22	Filtered	0.36 U	1.6	0.47
RD-095	SMRD-095-GW090210	Na-22	Suspended	0.01 U	0.85	0.24	SMDUP-06-GW090210Q	Na-22	Suspended	0.04 U	0.81	0.23
RD-095	SMRD-095-GW090210	Nb-94	Filtered	-0.03 U	1.4	0.39	SMDUP-06-GW090210Q	Nb-94	Filtered	0.22 U	1.2	0.36
RD-095	SMRD-095-GW090210	Nb-94	Suspended	0.22 U	0.62	0.18	SMDUP-06-GW090210Q	Nb-94	Suspended	-0.14 U	0.66	0.19
RD-095	SMRD-095-GW090210	Np-236	Filtered	-0.28 U	2.6	0.78	SMDUP-06-GW090210Q	Np-236	Filtered	-0.34 U	2.7	0.79
RD-095	SMRD-095-GW090210	Np-236	Suspended	-0.33 U	1.3	0.38	SMDUP-06-GW090210Q	Np-236	Suspended	-0.3 U	1.3	0.38
RD-095	SMRD-095-GW090210	Np-239	Filtered	-2 U	9	2.7	SMDUP-06-GW090210Q	Np-239	Filtered	0.6 U	7.8	2.3
RD-095	SMRD-095-GW090210	Np-239	Suspended	-0.1 U	3.6	1.1	SMDUP-06-GW090210Q	Np-239	Suspended	-1 U	3.5	1
RD-095	SMRD-095-GW090210	Pa-231	Filtered	-1 U	62	18	SMDUP-06-GW090210Q	Pa-231	Filtered	-14 U	59	17

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-095	SMRD-095-GW090210	Pa-231	Suspended	-1.8 U	27	8.1	SMDUP-06-GW090210Q	Pa-231	Suspended	-1.3 U	22	6.5
RD-095	SMRD-095-GW090210	Pb-212	Filtered	1.24 U	2.8	0.94	SMDUP-06-GW090210Q	Pb-212	Filtered	1.4	2.8	1.1
RD-095	SMRD-095-GW090210	Pb-212	Suspended	0.3 U	1.3	0.4	SMDUP-06-GW090210Q	Pb-212	Suspended	-0.58 U	1.4	0.93
RD-095	SMRD-095-GW090210	Pb-214	Filtered	2	3.4	1.2	SMDUP-06-GW090210Q	Pb-214	Filtered	-2 U	3	48
RD-095	SMRD-095-GW090210	Pb-214	Suspended	-0.29 U	1.6	0.51	SMDUP-06-GW090210Q	Pb-214	Suspended	-0.74 U	1.5	0.84
RD-095	SMRD-095-GW090210	Sb-125	Filtered	-0.4 U	14	4.1	SMDUP-06-GW090210Q	Sb-125	Filtered	-5.5 U	14	4.3
RD-095	SMRD-095-GW090210	Sb-125	Suspended	-1 U	6.3	1.9	SMDUP-06-GW090210Q	Sb-125	Suspended	-0.7 U	6.3	1.9
RD-095	SMRD-095-GW090210	Sn-126	Filtered	0.52 U	1.5	0.44	SMDUP-06-GW090210Q	Sn-126	Filtered	0.46 U	1.4	0.43
RD-095	SMRD-095-GW090210	Sn-126	Suspended	0.3 U	0.76	0.23	SMDUP-06-GW090210Q	Sn-126	Suspended	0.03 U	0.91	0.26
RD-095	SMRD-095-GW090210	Sr-90	Filtered	0.003 U	0.14	0.04	SMDUP-06-GW090210Q	Sr-90	Filtered	0.019 U	0.13	0.038
RD-095	SMRD-095-GW090210	Sr-90	Suspended	0.06	0.095	0.03	SMDUP-06-GW090210Q	Sr-90	Suspended	0.008 U	0.092	0.027
RD-095	SMRD-095-GW090210	Tl-208	Filtered	1.12	1.6	0.52	SMDUP-06-GW090210Q	Tl-208	Filtered	-0.8 U	1.8	1.8
RD-095	SMRD-095-GW090210	Tl-208	Suspended	-0.04 U	0.96	0.28	SMDUP-06-GW090210Q	Tl-208	Suspended	0.1 U	0.74	0.2
RD-095	SMRD-095-GW090210	Tm-171	Filtered	120 U	360	110	SMDUP-06-GW090210Q	Tm-171	Filtered	0 U	420	130
RD-095	SMRD-095-GW090210	U-233/234	Filtered	9.45	0.02	0.42	SMDUP-06-GW090210Q	U-233/234	Filtered	9.35	0.006	0.42
RD-095	SMRD-095-GW090210	U-233/234	Suspended	0.439	0.017	0.037	SMDUP-06-GW090210Q	U-233/234	Suspended	0.402	0.017	0.035
RD-095	SMRD-095-GW090210	U-235/236	Filtered	0.431	0.008	0.04	SMDUP-06-GW090210Q	U-235/236	Filtered	0.399	0.007	0.036
RD-095	SMRD-095-GW090210	U-235/236	Suspended	0.0308	0.0076	0.0094	SMDUP-06-GW090210Q	U-235/236	Suspended	0.0307	0.0076	0.0094
RD-095	SMRD-095-GW090210	U-238	Filtered	8.43	0.02	0.38	SMDUP-06-GW090210Q	U-238	Filtered	8.34	0.02	0.37
RD-095	SMRD-095-GW090210	U-238	Suspended	0.425	0.029	0.037	SMDUP-06-GW090210Q	U-238	Suspended	0.343	0.016	0.032
RD-027	SMRD-027-GW090310	Ac-227	Filtered	-5.3 U	9.9	3	SMDUP-08-GW090310	Ac-227	Filtered	-5.9 L U	9.3	2.8
RD-027	SMRD-027-GW090310	Ac-227	Suspended	-1.1 U	3.6	1.1	SMDUP-08-GW090310	Ac-227	Suspended	0.3 U	5.5	1.6
RD-027	SMRD-027-GW090310	Ac-228	Suspended	1.94	2.1	0.68	SMDUP-08-GW090310	Ac-228	Suspended	1.2	2.6	0.79
RD-027	SMRD-027-GW090310	Bi-212	Filtered	-1 U	9.7	2.7	SMDUP-08-GW090310	Bi-212	Filtered	-1.4 U	13	5.5

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-027	SMRD-027-GW090310	Bi-212	Suspended	2.6	5.6	1.7	SMDUP-08-GW090310	Bi-212	Suspended	3.1	5.9	1.8
RD-027	SMRD-027-GW090310	Bi-214	Filtered	-0.4 U	3.2	1.1	SMDUP-08-GW090310	Bi-214	Filtered	1 U	3	1
RD-027	SMRD-027-GW090310	Bi-214	Suspended	0.19 U	1.3	0.41	SMDUP-08-GW090310	Bi-214	Suspended	-0.08 U	1.8	0.74
RD-027	SMRD-027-GW090310	Cd-113m	Filtered	5700 U	13000	3900	SMDUP-08-GW090310	Cd-113m	Filtered	0 U	13000	3900
RD-027	SMRD-027-GW090310	Cd-113m	Suspended	-800 U	7200	2100	SMDUP-08-GW090310	Cd-113m	Suspended	2000 U	6800	2000
RD-027	SMRD-027-GW090310	Co-60	Filtered	-0.44 U	1.8	0.52	SMDUP-08-GW090310	Co-60	Filtered	0.05 U	1.2	0.33
RD-027	SMRD-027-GW090310	Co-60	Suspended	0.13 U	0.78	0.22	SMDUP-08-GW090310	Co-60	Suspended	0.09 U	0.76	0.22
RD-027	SMRD-027-GW090310	Cs-134	Filtered	-0.68 U	1.7	0.51	SMDUP-08-GW090310	Cs-134	Filtered	-0.45 U	1.5	0.44
RD-027	SMRD-027-GW090310	Cs-134	Suspended	0.007 U	0.67	0.19	SMDUP-08-GW090310	Cs-134	Suspended	0.16 U	0.88	0.26
RD-027	SMRD-027-GW090310	Cs-137	Filtered	-0.23 U	1.5	0.43	SMDUP-08-GW090310	Cs-137	Filtered	0.1 U	1.2	0.36
RD-027	SMRD-027-GW090310	Cs-137	Suspended	-0.12 U	0.75	0.3	SMDUP-08-GW090310	Cs-137	Suspended	0.11 U	0.72	0.21
RD-027	SMRD-027-GW090310	Eu-152	Filtered	0 U	3.7	1.1	SMDUP-08-GW090310	Eu-152	Filtered	-0.41 U	2.4	0.71
RD-027	SMRD-027-GW090310	Eu-152	Suspended	0.002 U	1.5	0.43	SMDUP-08-GW090310	Eu-152	Suspended	0 U	1.9	0.56
RD-027	SMRD-027-GW090310	Eu-154	Filtered	-4.1 U	12	3.6	SMDUP-08-GW090310	Eu-154	Filtered	-2 U	11	3.2
RD-027	SMRD-027-GW090310	Eu-154	Suspended	-0.7 U	5.9	1.7	SMDUP-08-GW090310	Eu-154	Suspended	1.3 U	6.2	1.8
RD-027	SMRD-027-GW090310	Eu-155	Filtered	-0.33 U	2.5	0.74	SMDUP-08-GW090310	Eu-155	Filtered	-0.2 U	3.5	1
RD-027	SMRD-027-GW090310	Eu-155	Suspended	0.26 U	1	0.31	SMDUP-08-GW090310	Eu-155	Suspended	0.04 U	1.1	0.34
RD-027	SMRD-027-GW090310	gross_alpha	Filtered	5.83	0.58	0.54	SMDUP-08-GW090310	gross_alpha	Filtered	5.84	0.64	0.54
RD-027	SMRD-027-GW090310	gross_alpha	Suspended	0.85	0.61	0.25	SMDUP-08-GW090310	gross_alpha	Suspended	2.06	0.58	0.33
RD-027	SMRD-027-GW090310	gross_beta	Filtered	5.69	1.2	0.6	SMDUP-08-GW090310	gross_beta	Filtered	7.03	1.3	0.68
RD-027	SMRD-027-GW090310	gross_beta	Suspended	0.03 U	0.84	0.24	SMDUP-08-GW090310	gross_beta	Suspended	0.52	0.82	0.26
RD-027	SMRD-027-GW090310	H-3	Filtered	4 U	130	38	SMDUP-08-GW090310	H-3	Filtered	22 U	130	39
RD-027	SMRD-027-GW090310	Ho-166m	Filtered	-0.002 U	2	0.56	SMDUP-08-GW090310	Ho-166m	Filtered	-0.02 U	2	0.58
RD-027	SMRD-027-GW090310	Ho-166m	Suspended	0.16 U	0.94	0.27	SMDUP-08-GW090310	Ho-166m	Suspended	0.27 U	1.1	0.31

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-027	SMRD-027-GW090310	K-40	Filtered	35.4	3.9	4.4	SMDUP-08-GW090310	K-40	Filtered	0.3 U	23	5.3
RD-027	SMRD-027-GW090310	K-40	Suspended	-5 U	10	6.9	SMDUP-08-GW090310	K-40	Suspended	6.9	9.9	3.4
RD-027	SMRD-027-GW090310	Na-22	Filtered	-0.24 U	1.7	0.47	SMDUP-08-GW090310	Na-22	Filtered	0.25 U	1.4	0.4
RD-027	SMRD-027-GW090310	Na-22	Suspended	-0.23 U	0.96	0.28	SMDUP-08-GW090310	Na-22	Suspended	0.17 U	0.86	0.25
RD-027	SMRD-027-GW090310	Nb-94	Filtered	-0.13 U	1.2	0.36	SMDUP-08-GW090310	Nb-94	Filtered	-0.12 U	1	0.31
RD-027	SMRD-027-GW090310	Nb-94	Suspended	0.007 U	0.64	0.18	SMDUP-08-GW090310	Nb-94	Suspended	-0.15 U	0.69	0.2
RD-027	SMRD-027-GW090310	Np-236	Filtered	-0.21 U	2.7	0.8	SMDUP-08-GW090310	Np-236	Filtered	0.15 U	2.6	0.78
RD-027	SMRD-027-GW090310	Np-236	Suspended	-0.11 U	1.2	0.36	SMDUP-08-GW090310	Np-236	Suspended	0.14 U	1	0.31
RD-027	SMRD-027-GW090310	Np-239	Filtered	1.6 U	7.8	2.3	SMDUP-08-GW090310	Np-239	Filtered	0.7 U	7.6	2.3
RD-027	SMRD-027-GW090310	Np-239	Suspended	0.02 U	3.1	0.9	SMDUP-08-GW090310	Np-239	Suspended	0.4 U	3.7	1.1
RD-027	SMRD-027-GW090310	Pa-231	Filtered	-0.03 U	55	16	SMDUP-08-GW090310	Pa-231	Filtered	-9 U	56	17
RD-027	SMRD-027-GW090310	Pa-231	Suspended	4.1 U	26	7.7	SMDUP-08-GW090310	Pa-231	Suspended	-7.4 U	29	8.6
RD-027	SMRD-027-GW090310	Pb-212	Filtered	1.85	2.5	0.97	SMDUP-08-GW090310	Pb-212	Filtered	0.04 U	3	1.1
RD-027	SMRD-027-GW090310	Pb-212	Suspended	0.39 U	1.1	0.42	SMDUP-08-GW090310	Pb-212	Suspended	0.83	1.4	0.52
RD-027	SMRD-027-GW090310	Pb-214	Filtered	-0.12 U	3	0.91	SMDUP-08-GW090310	Pb-214	Filtered	3.1	2.7	1
RD-027	SMRD-027-GW090310	Pb-214	Suspended	-1.2 U	1.4	1.6	SMDUP-08-GW090310	Pb-214	Suspended	-0.02 U	1.6	0.42
RD-027	SMRD-027-GW090310	Sb-125	Filtered	2.1 U	13	3.7	SMDUP-08-GW090310	Sb-125	Filtered	-2.7 U	14	4.3
RD-027	SMRD-027-GW090310	Sb-125	Suspended	0.7 U	5.7	1.7	SMDUP-08-GW090310	Sb-125	Suspended	0.2 U	6.1	1.8
RD-027	SMRD-027-GW090310	Sn-126	Filtered	0.22 U	1.5	0.45	SMDUP-08-GW090310	Sn-126	Filtered	0.37 U	1.2	0.35
RD-027	SMRD-027-GW090310	Sn-126	Suspended	0.3 U	0.8	0.24	SMDUP-08-GW090310	Sn-126	Suspended	0.11 U	0.81	0.24
RD-027	SMRD-027-GW090310	Sr-90	Filtered	0.001 U	0.076	0.022	SMDUP-08-GW090310	Sr-90	Filtered	0.031 U	0.19	0.055
RD-027	SMRD-027-GW090310	Sr-90	Suspended	0.014 U	0.1	0.03	SMDUP-08-GW090310	Sr-90	Suspended	0.028 U	0.094	0.028
RD-027	SMRD-027-GW090310	Tl-208	Filtered	0.61 U	1.4	0.46	SMDUP-08-GW090310	Tl-208	Filtered	-0.13 U	1.7	0.47
RD-027	SMRD-027-GW090310	Tl-208	Suspended	0.12 U	0.83	0.23	SMDUP-08-GW090310	Tl-208	Suspended	0.18 U	0.84	0.3

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-027	SMRD-027-GW090310	Tm-171	Filtered	60 U	360	110	SMDUP-08-GW090310	Tm-171	Filtered	-20 U	430	130
RD-027	SMRD-027-GW090310	U-233/234	Filtered	1.7	0.02	0.094	SMDUP-08-GW090310	U-233/234	Filtered	1.7	0.02	0.094
RD-027	SMRD-027-GW090310	U-233/234	Suspended	0.0176	0.015	0.0081	SMDUP-08-GW090310	U-233/234	Suspended	0.0151	0.015	0.0077
RD-027	SMRD-027-GW090310	U-235/236	Filtered	0.071	0.007	0.014	SMDUP-08-GW090310	U-235/236	Filtered	0.069	0.007	0.014
RD-027	SMRD-027-GW090310	U-235/236	Suspended	0.0025 U	0.0068	0.0025	SMDUP-08-GW090310	U-235/236	Suspended	0 U	0.018	0.0035
RD-027	SMRD-027-GW090310	U-238	Filtered	1.29	0.006	0.076	SMDUP-08-GW090310	U-238	Filtered	1.27	0.02	0.075
RD-027	SMRD-027-GW090310	U-238	Suspended	0.0042 U	0.015	0.0057	SMDUP-08-GW090310	U-238	Suspended	0.0059	0.0054	0.0053

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

ID - identification

MDC - minimum detectable concentration

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

U - Not considered detected. The associated number is the reported concentration.

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-19	SMRD-19-GW031711	Ac-227	Filtered	-6.9 L U	10	3.2	SMDUP-01-GW031711Q	Ac-227	Filtered	-0.3 U	13	3.7
RD-19	SMRD-19-GW031711	Ac-227	Suspended	-1.3 U	4.4	1.3	SMDUP-01-GW031711Q	Ac-227	Suspended	0 U	5.7	1.7
RD-19	SMRD-19-GW031711	Ac-228	Filtered	4.2	3.3	1.1	SMDUP-01-GW031711Q	Ac-228	Filtered	-2.5 U	5.3	1.6
RD-19	SMRD-19-GW031711	Ac-228	Suspended	0.31 U	2.7	0.71	SMDUP-01-GW031711Q	Ac-228	Suspended	1.51	2.2	0.68
RD-19	SMRD-19-GW031711	Am-241	Filtered	0.0257	0.022	0.0091	SMDUP-01-GW031711Q	Am-241	Filtered	0.0176	0.016	0.007
RD-19	SMRD-19-GW031711	Am-241	Suspended	-0.007 U	0.026	0.006	SMDUP-01-GW031711Q	Am-241	Suspended	0.0042 U	0.023	0.0065
RD-19	SMRD-19-GW031711	Bi-212	Filtered	-0.03 U	9.3	2.6	SMDUP-01-GW031711Q	Bi-212	Filtered	-7 U	13	42
RD-19	SMRD-19-GW031711	Bi-212	Suspended	-0.3 U	4.8	1.4	SMDUP-01-GW031711Q	Bi-212	Suspended	-1.3 U	5.8	6
RD-19	SMRD-19-GW031711	Bi-214	Filtered	4.1	2.8	1.1	SMDUP-01-GW031711Q	Bi-214	Filtered	2.2	3.3	1.2
RD-19	SMRD-19-GW031711	Bi-214	Suspended	0.58 U	1.8	0.75	SMDUP-01-GW031711Q	Bi-214	Suspended	1.53	1.8	0.72
RD-19	SMRD-19-GW031711	Cd-113m	Filtered	200 U	14000	4200	SMDUP-01-GW031711Q	Cd-113m	Filtered	-700 U	16000	4500
RD-19	SMRD-19-GW031711	Cd-113m	Suspended	-1000 U	6900	2000	SMDUP-01-GW031711Q	Cd-113m	Suspended	1400 U	6800	2000
RD-19	SMRD-19-GW031711	Cm-243/244	Filtered	0.0275	0.025	0.0098	SMDUP-01-GW031711Q	Cm-243/244	Filtered	-0.0064 U	0.023	0.0037
RD-19	SMRD-19-GW031711	Cm-243/244	Suspended	0 U	0.0046	0.0017	SMDUP-01-GW031711Q	Cm-243/244	Suspended	0.0019 U	0.005	0.0019
RD-19	SMRD-19-GW031711	Cm-245/246	Filtered	0.0218 J	0.016	0.0078	SMDUP-01-GW031711Q	Cm-245/246	Filtered	0.0035 U J	0.021	0.0054
RD-19	SMRD-19-GW031711	Cm-245/246	Suspended	0.0138	0.017	0.0064	SMDUP-01-GW031711Q	Cm-245/246	Suspended	0.0122	0.022	0.0074
RD-19	SMRD-19-GW031711	Co-60	Filtered	0.05 U	0.94	0.26	SMDUP-01-GW031711Q	Co-60	Filtered	0.29 U	1.6	0.44
RD-19	SMRD-19-GW031711	Co-60	Suspended	0.27 U	0.66	0.2	SMDUP-01-GW031711Q	Co-60	Suspended	-0.2 U	0.8	0.24
RD-19	SMRD-19-GW031711	Cs-134	Filtered	0.003 U	1.2	0.35	SMDUP-01-GW031711Q	Cs-134	Filtered	0.46 U	1.3	0.4
RD-19	SMRD-19-GW031711	Cs-134	Suspended	0.02 U	0.73	0.22	SMDUP-01-GW031711Q	Cs-134	Suspended	0.02 U	0.99	0.29
RD-19	SMRD-19-GW031711	Cs-137	Filtered	-0.04 U	1.2	0.33	SMDUP-01-GW031711Q	Cs-137	Filtered	0 U	1.9	0.55

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-19	SMRD-19-GW031711	Cs-137	Suspended	0.19 U	0.68	0.2	SMDUP-01-GW031711Q	Cs-137	Suspended	-0.002 U	0.76	0.22
RD-19	SMRD-19-GW031711	Eu-152	Filtered	0.009 U	3.1	0.91	SMDUP-01-GW031711Q	Eu-152	Filtered	0.7 U	3.6	1.1
RD-19	SMRD-19-GW031711	Eu-152	Suspended	0.32 U	1.7	0.52	SMDUP-01-GW031711Q	Eu-152	Suspended	0.45 U	1.7	0.51
RD-19	SMRD-19-GW031711	Eu-154	Filtered	-0.6 U	9	2.6	SMDUP-01-GW031711Q	Eu-154	Filtered	-0.2 U	13	3.6
RD-19	SMRD-19-GW031711	Eu-154	Suspended	0 U	6.3	1.8	SMDUP-01-GW031711Q	Eu-154	Suspended	0.3 U	5.7	1.6
RD-19	SMRD-19-GW031711	Eu-155	Filtered	0.49 U	3	0.89	SMDUP-01-GW031711Q	Eu-155	Filtered	-0.4 U	3.4	1
RD-19	SMRD-19-GW031711	Eu-155	Suspended	0.46 U	1.2	0.37	SMDUP-01-GW031711Q	Eu-155	Suspended	0.29 U	1.2	0.35
RD-19	SMRD-19-GW031711	gross_alpha	Filtered	20.8	0.4	1.2	SMDUP-01-GW031711Q	gross_alpha	Filtered	28	0.5	1.5
RD-19	SMRD-19-GW031711	gross_beta	Filtered	8	3.9	1.6	SMDUP-01-GW031711Q	gross_beta	Filtered	11.7	4.7	2
RD-19	SMRD-19-GW031711	gross_beta	Suspended	0.34 U	0.84	0.26	SMDUP-01-GW031711Q	gross_beta	Suspended	0.68	0.82	0.27
RD-19	SMRD-19-GW031711	H-3	Total	-12 U	150	43	SMDUP-01-GW031711Q	H-3	Total	24 U	150	44
RD-19	SMRD-19-GW031711	Ho-166m	Filtered	-0.05 U	1.6	0.47	SMDUP-01-GW031711Q	Ho-166m	Filtered	-0.5 U	2.6	0.76
RD-19	SMRD-19-GW031711	Ho-166m	Suspended	-0.39 U	1.1	0.34	SMDUP-01-GW031711Q	Ho-166m	Suspended	0.33 U	1.1	0.33
RD-19	SMRD-19-GW031711	I-129	Filtered	-0.09 U	0.59	0.18	SMDUP-01-GW031711Q	I-129	Filtered	-0.02 U	0.54	0.16
RD-19	SMRD-19-GW031711	I-129	Suspended	0.003 U	0.47	0.14	SMDUP-01-GW031711Q	I-129	Suspended	-0.15 U	0.49	0.15
RD-19	SMRD-19-GW031711	K-40	Filtered	11.1	15	4.4	SMDUP-01-GW031711Q	K-40	Filtered	9.3	20	4.6
RD-19	SMRD-19-GW031711	K-40	Suspended	1 U	12	3.5	SMDUP-01-GW031711Q	K-40	Suspended	-0.2 U	11	2.7
RD-19	SMRD-19-GW031711	Na-22	Filtered	-0.21 U	1.2	0.36	SMDUP-01-GW031711Q	Na-22	Filtered	-0.32 U	1.8	0.51
RD-19	SMRD-19-GW031711	Na-22	Suspended	-0.04 U	0.69	0.2	SMDUP-01-GW031711Q	Na-22	Suspended	0.1 U	0.77	0.22
RD-19	SMRD-19-GW031711	Nb-94	Filtered	0.3 U	1.1	0.32	SMDUP-01-GW031711Q	Nb-94	Filtered	-0.004 U	1.5	0.43
RD-19	SMRD-19-GW031711	Nb-94	Suspended	-0.13 U	0.68	0.2	SMDUP-01-GW031711Q	Nb-94	Suspended	-0.07 U	0.65	0.19

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-19	SMRD-19-GW031711	Np-236	Filtered	-0.73 U	2.8	0.83	SMDUP-01-GW031711Q	Np-236	Filtered	0.05 U	3.3	0.98
RD-19	SMRD-19-GW031711	Np-236	Suspended	-0.09 U	1.2	0.36	SMDUP-01-GW031711Q	Np-236	Suspended	-0.22 U	1.2	0.35
RD-19	SMRD-19-GW031711	Np-237	Filtered	0 U	0.034	0.0061	SMDUP-01-GW031711Q	Np-237	Filtered	0.015	0.033	0.01
RD-19	SMRD-19-GW031711	Np-237	Suspended	0 U	0.0087	0.0023	SMDUP-01-GW031711Q	Np-237	Suspended	0.0038 U	0.01	0.0038
RD-19	SMRD-19-GW031711	Np-239	Filtered	1.3 U	7.1	2.1	SMDUP-01-GW031711Q	Np-239	Filtered	2.4 U	9	2.7
RD-19	SMRD-19-GW031711	Np-239	Suspended	0.4 U	3.7	1.1	SMDUP-01-GW031711Q	Np-239	Suspended	0.4 U	3.7	1.1
RD-19	SMRD-19-GW031711	Pa-231	Filtered	21 U	48	15	SMDUP-01-GW031711Q	Pa-231	Filtered	0.5 U	67	20
RD-19	SMRD-19-GW031711	Pa-231	Suspended	0.09 U	26	7.6	SMDUP-01-GW031711Q	Pa-231	Suspended	2.5 U	27	8.1
RD-19	SMRD-19-GW031711	Pb-212	Filtered	0.8 U	2.4	0.74	SMDUP-01-GW031711Q	Pb-212	Filtered	1.21	2.4	0.76
RD-19	SMRD-19-GW031711	Pb-212	Suspended	0.22 U	1.2	0.44	SMDUP-01-GW031711Q	Pb-212	Suspended	0.57	1.1	0.36
RD-19	SMRD-19-GW031711	Pb-214	Filtered	2.4	2.6	1	SMDUP-01-GW031711Q	Pb-214	Filtered	1.65	3	0.96
RD-19	SMRD-19-GW031711	Pb-214	Suspended	0.02 U	1.5	0.51	SMDUP-01-GW031711Q	Pb-214	Suspended	-0.1 U	1.4	0.5
RD-19	SMRD-19-GW031711	Pu-238	Filtered	0.0023 U	0.024	0.006	SMDUP-01-GW031711Q	Pu-238	Filtered	0.0092	0.017	0.0057
RD-19	SMRD-19-GW031711	Pu-238	Suspended	0.0228	0.021	0.0083	SMDUP-01-GW031711Q	Pu-238	Suspended	0.0124	0.019	0.0067
RD-19	SMRD-19-GW031711	Pu-239/240	Filtered	-0.0045 U	0.027	0.0056	SMDUP-01-GW031711Q	Pu-239/240	Filtered	-0.0023 U	0.021	0.004
RD-19	SMRD-19-GW031711	Pu-239/240	Suspended	0.0035 U	0.0047	0.0025	SMDUP-01-GW031711Q	Pu-239/240	Suspended	0.0083	0.0056	0.0042
RD-19	SMRD-19-GW031711	Pu-242	Filtered	0.0023 U	0.017	0.0039	SMDUP-01-GW031711Q	Pu-242	Filtered	0.0046 U	0.0062	0.0033
RD-19	SMRD-19-GW031711	Pu-242	Suspended	0.0018 U	0.013	0.0032	SMDUP-01-GW031711Q	Pu-242	Suspended	-0.0042 U	0.019	0.0033
RD-19	SMRD-19-GW031711	Ra-226	Filtered	1.29	0.11	0.12	SMDUP-01-GW031711Q	Ra-226	Filtered	1.22	0.13	0.12
RD-19	SMRD-19-GW031711	Ra-226	Suspended	0.102	0.17	0.056	SMDUP-01-GW031711Q	Ra-226	Suspended	0.028 U	0.24	0.064
RD-19	SMRD-19-GW031711	Sb-125	Filtered	-0.3 U	9.5	2.8	SMDUP-01-GW031711Q	Sb-125	Filtered	1.3 U	13	3.8

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-19	SMRD-19-GW031711	Sb-125	Suspended	0.09 U	5.5	1.6	SMDUP-01-GW031711Q	Sb-125	Suspended	1.5 U	5.4	1.6
RD-19	SMRD-19-GW031711	Sn-126	Filtered	0.14 U	1.3	0.37	SMDUP-01-GW031711Q	Sn-126	Filtered	0 U	2.2	0.64
RD-19	SMRD-19-GW031711	Sn-126	Suspended	0.18 U	0.66	0.2	SMDUP-01-GW031711Q	Sn-126	Suspended	-0.1 U	0.73	0.21
RD-19	SMRD-19-GW031711	Sr-90	Filtered	0.112	0.16	0.049	SMDUP-01-GW031711Q	Sr-90	Filtered	2.83	0.14	0.15
RD-19	SMRD-19-GW031711	Sr-90	Suspended	0.066 U	0.12	0.038	SMDUP-01-GW031711Q	Sr-90	Suspended	-0.035 U	0.13	0.034
RD-19	SMRD-19-GW031711	Tc-99	Filtered	-0.14 U	1.4	0.41	SMDUP-01-GW031711Q	Tc-99	Filtered	-0.36 U	1.2	0.38
RD-19	SMRD-19-GW031711	Tc-99	Suspended	0.24 U	1.7	0.5	SMDUP-01-GW031711Q	Tc-99	Suspended	-0.13 U	1.9	0.55
RD-19	SMRD-19-GW031711	Tl-208	Filtered	0.78	1.3	0.41	SMDUP-01-GW031711Q	Tl-208	Filtered	1.11	1.7	0.64
RD-19	SMRD-19-GW031711	Tl-208	Suspended	-0.31 U	0.82	0.38	SMDUP-01-GW031711Q	Tl-208	Suspended	0.59	0.68	0.25
RD-19	SMRD-19-GW031711	Tm-171	Filtered	7 U	310	92	SMDUP-01-GW031711Q	Tm-171	Filtered	-20 U	350	100
RD-19	SMRD-19-GW031711	Tm-171	Suspended	8 U	110	32	SMDUP-01-GW031711Q	Tm-171	Suspended	8 U	90	27
RD-19	SMRD-19-GW031711	U-233/234	Filtered	14	0.02	0.62	SMDUP-01-GW031711Q	U-233/234	Filtered	13.8	0.006	0.61
RD-19	SMRD-19-GW031711	U-233/234	Suspended	0.0275	0.0054	0.0088	SMDUP-01-GW031711Q	U-233/234	Suspended	0.052	0.02	0.013
RD-19	SMRD-19-GW031711	U-235/236	Filtered	0.598	0.009	0.05	SMDUP-01-GW031711Q	U-235/236	Filtered	0.636	0.008	0.051
RD-19	SMRD-19-GW031711	U-235/236	Suspended	0.005 U	0.0068	0.0035	SMDUP-01-GW031711Q	U-235/236	Suspended	0.0081	0.0073	0.0047
RD-19	SMRD-19-GW031711	U-238	Filtered	13.2	0.02	0.58	SMDUP-01-GW031711Q	U-238	Filtered	12.5	0.006	0.55
RD-19	SMRD-19-GW031711	U-238	Suspended	0.0021 U	0.0054	0.0045	SMDUP-01-GW031711Q	U-238	Suspended	0.046	0.02	0.012
RD-33C	SMRD-33C-GW032211	Ac-227	Filtered	0.5 U	14	4.1	SMDUP-02-GW032211Q	Ac-227	Filtered	-6.8 U	12	3.6
RD-33C	SMRD-33C-GW032211	Ac-227	Suspended	-1.7 U	4.4	1.3	SMDUP-02-GW032211Q	Ac-227	Suspended	-3.5 L U	4.8	1.5
RD-33C	SMRD-33C-GW032211	Ac-228	Filtered	8	3.6	1.9	SMDUP-02-GW032211Q	Ac-228	Filtered	6.5	4.9	1.5
RD-33C	SMRD-33C-GW032211	Ac-228	Suspended	1.55	2.4	0.73	SMDUP-02-GW032211Q	Ac-228	Suspended	-0.28 U	2.7	0.89

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33C	SMRD-33C-GW032211	Bi-212	Filtered	3.6 U	11	3.2	SMDUP-02-GW032211Q	Bi-212	Filtered	5.5	11	3.3
RD-33C	SMRD-33C-GW032211	Bi-212	Suspended	-1 U	6.1	4.6	SMDUP-02-GW032211Q	Bi-212	Suspended	2.5	5.3	1.6
RD-33C	SMRD-33C-GW032211	Bi-214	Filtered	2.8	3.7	1.6	SMDUP-02-GW032211Q	Bi-214	Filtered	1.6	3.4	1.2
RD-33C	SMRD-33C-GW032211	Bi-214	Suspended	-0.17 U	1.6	0.58	SMDUP-02-GW032211Q	Bi-214	Suspended	-0.29 U	1.6	0.58
RD-33C	SMRD-33C-GW032211	Cd-113m	Filtered	2200 U	18000	5500	SMDUP-02-GW032211Q	Cd-113m	Filtered	2100 U	17000	5000
RD-33C	SMRD-33C-GW032211	Cd-113m	Suspended	-20 U	7400	2200	SMDUP-02-GW032211Q	Cd-113m	Suspended	1400 U	6800	2000
RD-33C	SMRD-33C-GW032211	Co-60	Filtered	0.07 U	1.6	0.44	SMDUP-02-GW032211Q	Co-60	Filtered	-0.24 U	1.7	0.47
RD-33C	SMRD-33C-GW032211	Co-60	Suspended	-0.1 U	0.68	0.19	SMDUP-02-GW032211Q	Co-60	Suspended	0.21 U	0.66	0.19
RD-33C	SMRD-33C-GW032211	Cs-134	Filtered	-0.55 U	1.7	0.52	SMDUP-02-GW032211Q	Cs-134	Filtered	-0.06 U	2.1	0.62
RD-33C	SMRD-33C-GW032211	Cs-134	Suspended	-0.09 U	0.77	0.23	SMDUP-02-GW032211Q	Cs-134	Suspended	-0.24 U	0.67	0.2
RD-33C	SMRD-33C-GW032211	Cs-137	Filtered	-0.45 U	1.6	0.48	SMDUP-02-GW032211Q	Cs-137	Filtered	0.04 U	1.3	0.38
RD-33C	SMRD-33C-GW032211	Cs-137	Suspended	-0.02 U	0.62	0.18	SMDUP-02-GW032211Q	Cs-137	Suspended	0.04 U	0.71	0.21
RD-33C	SMRD-33C-GW032211	Eu-152	Filtered	0.4 U	3.2	0.92	SMDUP-02-GW032211Q	Eu-152	Filtered	1.1 U	4	1.2
RD-33C	SMRD-33C-GW032211	Eu-152	Suspended	-0.08 U	1.7	0.51	SMDUP-02-GW032211Q	Eu-152	Suspended	-0.07 U	1.8	0.52
RD-33C	SMRD-33C-GW032211	Eu-154	Filtered	-0.06 U	13	3.6	SMDUP-02-GW032211Q	Eu-154	Filtered	-0.04 U	12	3.2
RD-33C	SMRD-33C-GW032211	Eu-154	Suspended	-2 U	6.5	1.9	SMDUP-02-GW032211Q	Eu-154	Suspended	-0.9 U	6.3	1.8
RD-33C	SMRD-33C-GW032211	Eu-155	Filtered	0.5 U	4	1.2	SMDUP-02-GW032211Q	Eu-155	Filtered	0.02 U	3.6	1.1
RD-33C	SMRD-33C-GW032211	Eu-155	Suspended	0.29 U	1.1	0.34	SMDUP-02-GW032211Q	Eu-155	Suspended	-0.08 U	1.2	0.36
RD-33C	SMRD-33C-GW032211	gross_alpha	Filtered	2.02	0.38	0.29	SMDUP-02-GW032211Q	gross_alpha	Filtered	1.72	0.37	0.26
RD-33C	SMRD-33C-GW032211	gross_alpha	Suspended	0.35	0.38	0.14	SMDUP-02-GW032211Q	gross_alpha	Suspended	0.6	0.38	0.16
RD-33C	SMRD-33C-GW032211	gross_beta	Filtered	4.23	2.2	0.83	SMDUP-02-GW032211Q	gross_beta	Filtered	3.72	2	0.76

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33C	SMRD-33C-GW032211	gross_beta	Suspended	0.7	0.99	0.31	SMDUP-02-GW032211Q	gross_beta	Suspended	0.58	0.88	0.28
RD-33C	SMRD-33C-GW032211	H-3	Total	47 U	150	45	SMDUP-02-GW032211Q	H-3	Total	27 U	150	45
RD-33C	SMRD-33C-GW032211	Ho-166m	Filtered	-0.08 U	2.3	0.65	SMDUP-02-GW032211Q	Ho-166m	Filtered	-0.02 U	2.4	0.68
RD-33C	SMRD-33C-GW032211	Ho-166m	Suspended	0.16 U	1.1	0.32	SMDUP-02-GW032211Q	Ho-166m	Suspended	0.002 U	1.1	0.33
RD-33C	SMRD-33C-GW032211	K-40	Filtered	-3.4 U	24	7.4	SMDUP-02-GW032211Q	K-40	Filtered	25.8	19	6.1
RD-33C	SMRD-33C-GW032211	K-40	Suspended	5.8	10	3.6	SMDUP-02-GW032211Q	K-40	Suspended	5.9	12	3.6
RD-33C	SMRD-33C-GW032211	Na-22	Filtered	-0.16 U	1.5	0.43	SMDUP-02-GW032211Q	Na-22	Filtered	0 U	1.2	0.32
RD-33C	SMRD-33C-GW032211	Na-22	Suspended	0.07 U	0.74	0.21	SMDUP-02-GW032211Q	Na-22	Suspended	0.2 U	0.74	0.22
RD-33C	SMRD-33C-GW032211	Nb-94	Filtered	-0.04 U	1.3	0.36	SMDUP-02-GW032211Q	Nb-94	Filtered	0.37 U	1.1	0.32
RD-33C	SMRD-33C-GW032211	Nb-94	Suspended	0.007 U	0.61	0.17	SMDUP-02-GW032211Q	Nb-94	Suspended	0.24 U	0.67	0.2
RD-33C	SMRD-33C-GW032211	Np-236	Filtered	0.1 U	9.3	2.7	SMDUP-02-GW032211Q	Np-236	Filtered	-0.04 U	3.4	0.99
RD-33C	SMRD-33C-GW032211	Np-236	Suspended	0.001 U	0.88	0.26	SMDUP-02-GW032211Q	Np-236	Suspended	-0.09 U	1.2	0.36
RD-33C	SMRD-33C-GW032211	Np-239	Filtered	-0.03 U	9.3	2.7	SMDUP-02-GW032211Q	Np-239	Filtered	0.3 U	9.3	2.7
RD-33C	SMRD-33C-GW032211	Np-239	Suspended	0.4 U	3.5	1	SMDUP-02-GW032211Q	Np-239	Suspended	0.1 U	3.2	0.93
RD-33C	SMRD-33C-GW032211	Pa-231	Filtered	18 U	68	20	SMDUP-02-GW032211Q	Pa-231	Filtered	-5 U	61	18
RD-33C	SMRD-33C-GW032211	Pa-231	Suspended	2.2 U	22	6.4	SMDUP-02-GW032211Q	Pa-231	Suspended	1.2 U	27	7.9
RD-33C	SMRD-33C-GW032211	Pb-212	Filtered	0.03 U	2.9	0.91	SMDUP-02-GW032211Q	Pb-212	Filtered	0.16 U	2.6	0.78
RD-33C	SMRD-33C-GW032211	Pb-212	Suspended	-0.06 U	1.1	0.37	SMDUP-02-GW032211Q	Pb-212	Suspended	0.35 U	1.2	0.4
RD-33C	SMRD-33C-GW032211	Pb-214	Filtered	-0.4 U	3.7	1.2	SMDUP-02-GW032211Q	Pb-214	Filtered	1.9	3.2	1.1
RD-33C	SMRD-33C-GW032211	Pb-214	Suspended	-0.32 U	1.5	0.6	SMDUP-02-GW032211Q	Pb-214	Suspended	-0.17 U	1.5	0.59
RD-33C	SMRD-33C-GW032211	Sb-125	Filtered	-0.8 U	16	4.7	SMDUP-02-GW032211Q	Sb-125	Filtered	-5.8 U	17	5.1

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-33C	SMRD-33C-GW032211	Sb-125	Suspended	1.4 U	5.4	1.6	SMDUP-02-GW032211Q	Sb-125	Suspended	0.8 U	4.8	1.4
RD-33C	SMRD-33C-GW032211	Sn-126	Filtered	0.62 U	1.6	0.47	SMDUP-02-GW032211Q	Sn-126	Filtered	-0.3 U	1.7	0.49
RD-33C	SMRD-33C-GW032211	Sn-126	Suspended	0.05 U	0.82	0.24	SMDUP-02-GW032211Q	Sn-126	Suspended	0.21 U	0.77	0.23
RD-33C	SMRD-33C-GW032211	Sr-90	Suspended	0.015 U	0.12	0.036	SMDUP-02-GW032211Q	Sr-90	Suspended	0.013 U	0.11	0.031
RD-33C	SMRD-33C-GW032211	Tl-208	Filtered	2.01	1.6	0.61	SMDUP-02-GW032211Q	Tl-208	Filtered	-0.05 U	1.6	0.5
RD-33C	SMRD-33C-GW032211	Tl-208	Suspended	-0.08 U	0.83	0.26	SMDUP-02-GW032211Q	Tl-208	Suspended	-0.36 U	0.86	0.45
RD-33C	SMRD-33C-GW032211	Tm-171	Filtered	-20 U	460	140	SMDUP-02-GW032211Q	Tm-171	Filtered	-50 U	420	120
RD-33C	SMRD-33C-GW032211	Tm-171	Suspended	-18 U	110	34	SMDUP-02-GW032211Q	Tm-171	Suspended	-16 U	100	31
RD-86	SMRD-86-GW032911	Ac-227	Filtered	-2.6 U	8.5	2.6	SMDUP-03-GW032411Q	Ac-227	Filtered	-6.6 U	12	3.7
RD-86	SMRD-86-GW032911	Ac-227	Suspended	-2.6 U	4.4	1.3	SMDUP-03-GW032411Q	Ac-227	Suspended	0.2 U	5.5	1.6
RD-86	SMRD-86-GW032911	Ac-228	Filtered	3.8	4.3	1.4	SMDUP-03-GW032411Q	Ac-228	Filtered	2.8	4.9	1.3
RD-86	SMRD-86-GW032911	Ac-228	Suspended	1.52	1.9	0.6	SMDUP-03-GW032411Q	Ac-228	Suspended	-0.14 U	2.8	0.84
RD-86	SMRD-86-GW032911	Bi-212	Filtered	2.4 U	11	3.1	SMDUP-03-GW032411Q	Bi-212	Filtered	-0.07 U	10	3
RD-86	SMRD-86-GW032911	Bi-212	Suspended	2.2 U	4.9	1.5	SMDUP-03-GW032411Q	Bi-212	Suspended	2.4	4.5	1.4
RD-86	SMRD-86-GW032911	Bi-214	Filtered	-1.5 U	3.1	7.4	SMDUP-03-GW032411Q	Bi-214	Filtered	2.1	3.7	1.4
RD-86	SMRD-86-GW032911	Bi-214	Suspended	0.86	1.4	0.49	SMDUP-03-GW032411Q	Bi-214	Suspended	0.66 U	1.6	0.56
RD-86	SMRD-86-GW032911	Cd-113m	Filtered	5500 U	14000	4400	SMDUP-03-GW032411Q	Cd-113m	Filtered	5400 U	17000	5200
RD-86	SMRD-86-GW032911	Cd-113m	Suspended	0 U	6500	1900	SMDUP-03-GW032411Q	Cd-113m	Suspended	2 U	7200	2100
RD-86	SMRD-86-GW032911	Co-60	Filtered	-0.22 U	1.5	0.41	SMDUP-03-GW032411Q	Co-60	Filtered	0.0008 U	1.3	0.34
RD-86	SMRD-86-GW032911	Co-60	Suspended	-0.03 U	0.52	0.14	SMDUP-03-GW032411Q	Co-60	Suspended	0.01 U	0.76	0.21
RD-86	SMRD-86-GW032911	Cs-134	Filtered	0.71 SK	1.3	0.38	SMDUP-03-GW032411Q	Cs-134	Filtered	0.07 U	1.6	0.11

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-86	SMRD-86-GW032911	Cs-134	Suspended	0.005 U	0.69	0.2	SMDUP-03-GW032411Q	Cs-134	Suspended	0.08 U	0.7	0.21
RD-86	SMRD-86-GW032911	Cs-137	Filtered	0.55 U	1.4	0.41	SMDUP-03-GW032411Q	Cs-137	Filtered	0.04 U	1.1	0.32
RD-86	SMRD-86-GW032911	Cs-137	Suspended	0.004 U	0.64	0.18	SMDUP-03-GW032411Q	Cs-137	Suspended	0.02 U	0.7	0.2
RD-86	SMRD-86-GW032911	Eu-152	Filtered	0 U	4.6	1.4	SMDUP-03-GW032411Q	Eu-152	Filtered	0.8 U	4	1.2
RD-86	SMRD-86-GW032911	Eu-152	Suspended	0.33 U	1.7	0.49	SMDUP-03-GW032411Q	Eu-152	Suspended	0.22 U	1.9	0.56
RD-86	SMRD-86-GW032911	Eu-154	Filtered	0 U	12	3.5	SMDUP-03-GW032411Q	Eu-154	Filtered	0.25 U	13	0.25
RD-86	SMRD-86-GW032911	Eu-154	Suspended	0 U	6.2	1.8	SMDUP-03-GW032411Q	Eu-154	Suspended	-0.1 U	5.6	1.6
RD-86	SMRD-86-GW032911	Eu-155	Filtered	-0.4 U	4.8	1.4	SMDUP-03-GW032411Q	Eu-155	Filtered	-0.5 U	4	1.2
RD-86	SMRD-86-GW032911	Eu-155	Suspended	0.3 U	1	0.31	SMDUP-03-GW032411Q	Eu-155	Suspended	0.47 U	1.1	0.33
RD-86	SMRD-86-GW032911	gross_alpha	Filtered	5.18 J	0.57	0.52	SMDUP-03-GW032411Q	gross_alpha	Filtered	4.47	0.67	0.46
RD-86	SMRD-86-GW032911	gross_alpha	Suspended	1.37	0.5	0.25	SMDUP-03-GW032411Q	gross_alpha	Suspended	1.44	0.34	0.23
RD-86	SMRD-86-GW032911	gross_beta	Suspended	3.73	0.84	0.4	SMDUP-03-GW032411Q	gross_beta	Suspended	3.62	0.89	0.41
RD-86	SMRD-86-GW032911	Ho-166m	Filtered	-0.39 U	2.2	0.64	SMDUP-03-GW032411Q	Ho-166m	Filtered	0.54 U	2.2	0.33
RD-86	SMRD-86-GW032911	Ho-166m	Suspended	0.22 U	0.78	0.23	SMDUP-03-GW032411Q	Ho-166m	Suspended	0.02 U	1.1	0.32
RD-86	SMRD-86-GW032911	K-40	Filtered	-7 U	19	12	SMDUP-03-GW032411Q	K-40	Filtered	-11 U	25	15
RD-86	SMRD-86-GW032911	K-40	Suspended	0.05 U	9.7	2.5	SMDUP-03-GW032411Q	K-40	Suspended	-6.3 U	11	5.9
RD-86	SMRD-86-GW032911	Na-22	Filtered	0.29 U	1.4	0.42	SMDUP-03-GW032411Q	Na-22	Filtered	-0.12 U	1.7	0.48
RD-86	SMRD-86-GW032911	Na-22	Suspended	-0.01 U	0.63	0.18	SMDUP-03-GW032411Q	Na-22	Suspended	-0.16 U	0.78	0.23
RD-86	SMRD-86-GW032911	Nb-94	Filtered	0.08 U	1.2	0.36	SMDUP-03-GW032411Q	Nb-94	Filtered	-0.43 U	1.4	0.41
RD-86	SMRD-86-GW032911	Nb-94	Suspended	0.02 U	0.56	0.16	SMDUP-03-GW032411Q	Nb-94	Suspended	0.0008 U	0.6	0.17
RD-86	SMRD-86-GW032911	Np-236	Filtered	0.06 U	3.6	1.1	SMDUP-03-GW032411Q	Np-236	Filtered	1.06 U	3.1	0.92

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-86	SMRD-86-GW032911	Np-236	Suspended	0.02 U	1.1	0.32	SMDUP-03-GW032411Q	Np-236	Suspended	0.41 U	0.97	0.29
RD-86	SMRD-86-GW032911	Np-239	Filtered	-1.5 U	8.8	2.6	SMDUP-03-GW032411Q	Np-239	Filtered	1.5 U	7.7	2.3
RD-86	SMRD-86-GW032911	Np-239	Suspended	0.24 U	3.4	0.99	SMDUP-03-GW032411Q	Np-239	Suspended	-0.7 U	3.9	1.2
RD-86	SMRD-86-GW032911	Pa-231	Filtered	3 U	64	19	SMDUP-03-GW032411Q	Pa-231	Filtered	8 U	61	18
RD-86	SMRD-86-GW032911	Pa-231	Suspended	-2.2 U	26	7.6	SMDUP-03-GW032411Q	Pa-231	Suspended	0.7 U	27	8
RD-86	SMRD-86-GW032911	Pb-212	Filtered	1.93	2.3	0.94	SMDUP-03-GW032411Q	Pb-212	Filtered	1.7	2.8	1
RD-86	SMRD-86-GW032911	Pb-212	Suspended	0.58	1.1	0.36	SMDUP-03-GW032411Q	Pb-212	Suspended	0.58	1	0.32
RD-86	SMRD-86-GW032911	Pb-214	Filtered	1.17 U	2.8	0.83	SMDUP-03-GW032411Q	Pb-214	Filtered	-1.4 U	3.6	2
RD-86	SMRD-86-GW032911	Pb-214	Suspended	-0.03 U	1.4	0.4	SMDUP-03-GW032411Q	Pb-214	Suspended	0.34 U	1.5	0.53
RD-86	SMRD-86-GW032911	Sb-125	Filtered	3.4 U	15	4.4	SMDUP-03-GW032411Q	Sb-125	Filtered	2.2 U	16	1.2
RD-86	SMRD-86-GW032911	Sb-125	Suspended	-0.1 U	5.2	1.5	SMDUP-03-GW032411Q	Sb-125	Suspended	0.2 U	4.4	1.3
RD-86	SMRD-86-GW032911	Sn-126	Filtered	-0.15 U	1.5	0.43	SMDUP-03-GW032411Q	Sn-126	Filtered	-0.28 U	1.7	0.49
RD-86	SMRD-86-GW032911	Sn-126	Suspended	-0.04 U	0.69	0.2	SMDUP-03-GW032411Q	Sn-126	Suspended	0.3 U	0.72	0.22
RD-86	SMRD-86-GW032911	Sr-90	Suspended	0.06	0.087	0.027	SMDUP-03-GW032411Q	Sr-90	Suspended	-0.018 U	0.065	0.018
RD-86	SMRD-86-GW032911	Tl-208	Filtered	0.72	1.3	0.43	SMDUP-03-GW032411Q	Tl-208	Filtered	1.14	1.5	0.56
RD-86	SMRD-86-GW032911	Tl-208	Suspended	0.53	0.7	0.26	SMDUP-03-GW032411Q	Tl-208	Suspended	0.64	0.67	0.26
RD-86	SMRD-86-GW032911	Tm-171	Filtered	220 U	480	140	SMDUP-03-GW032411Q	Tm-171	Filtered	9 U	450	130
RD-86	SMRD-86-GW032911	Tm-171	Suspended	-4 U	100	30	SMDUP-03-GW032411Q	Tm-171	Suspended	7 U	110	33
RD-86	SMRD-86-GW032911	U-233/234	Filtered	2.41	0.005	0.12	SMDUP-03-GW032411Q	U-233/234	Filtered	2.29	0.01	0.12
RD-86	SMRD-86-GW032911	U-233/234	Suspended	0.079	0.014	0.014	SMDUP-03-GW032411Q	U-233/234	Suspended	0.0318	0.012	0.0092
RD-86	SMRD-86-GW032911	U-235/236	Filtered	0.109	0.02	0.018	SMDUP-03-GW032411Q	U-235/236	Filtered	0.093	0.006	0.015

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-86	SMRD-86-GW032911	U-235/236	Suspended	0.0051 U	0.0069	0.0036	SMDUP-03-GW032411Q	U-235/236	Suspended	0.0023 U	0.0063	0.0023
RD-86	SMRD-86-GW032911	U-238	Filtered	2.33	0.01	0.12	SMDUP-03-GW032411Q	U-238	Filtered	2.25	0.01	0.11
RD-86	SMRD-86-GW032911	U-238	Suspended	0.058	0.006	0.012	SMDUP-03-GW032411Q	U-238	Suspended	0.0319	0.005	0.0086
RD-94	SMRD-94-GW032811	Ac-227	Filtered	1 U	6.3	1.9	SMDUP-04-GW032811Q	Ac-227	Filtered	-5.5 U	9.1	2.8
RD-94	SMRD-94-GW032811	Ac-227	Suspended	-3.1 L U	4.5	1.4	SMDUP-04-GW032811Q	Ac-227	Suspended	-1 U	3.8	1.1
RD-94	SMRD-94-GW032811	Ac-228	Filtered	2.5	3.9	1.2	SMDUP-04-GW032811Q	Ac-228	Filtered	0 U	4.8	1.4
RD-94	SMRD-94-GW032811	Ac-228	Suspended	0.009 U	3	0.77	SMDUP-04-GW032811Q	Ac-228	Suspended	-0.5 U	2.6	1
RD-94	SMRD-94-GW032811	Bi-212	Filtered	3.7 U	8.4	2.5	SMDUP-04-GW032811Q	Bi-212	Filtered	1.7 U	9.2	2.7
RD-94	SMRD-94-GW032811	Bi-212	Suspended	1.7 U	5.4	1.6	SMDUP-04-GW032811Q	Bi-212	Suspended	1.4 U	5.3	1.6
RD-94	SMRD-94-GW032811	Bi-214	Filtered	1.11	2.3	0.78	SMDUP-04-GW032811Q	Bi-214	Filtered	2.7	3.1	1.3
RD-94	SMRD-94-GW032811	Bi-214	Suspended	1.08	1.6	0.61	SMDUP-04-GW032811Q	Bi-214	Suspended	-0.06 U	1.5	0.45
RD-94	SMRD-94-GW032811	Cd-113m	Filtered	4000 U	14000	4200	SMDUP-04-GW032811Q	Cd-113m	Filtered	-0.5 U	12000	3500
RD-94	SMRD-94-GW032811	Cd-113m	Suspended	300 U	7100	2100	SMDUP-04-GW032811Q	Cd-113m	Suspended	-40 U	7500	2200
RD-94	SMRD-94-GW032811	Co-60	Filtered	0.12 U	1	0.3	SMDUP-04-GW032811Q	Co-60	Filtered	0.01 U	0.76	0.21
RD-94	SMRD-94-GW032811	Co-60	Suspended	0 U	1.1	0.32	SMDUP-04-GW032811Q	Co-60	Suspended	0 U	1.1	0.32
RD-94	SMRD-94-GW032811	Cs-134	Filtered	-0.15 U	1.3	0.38	SMDUP-04-GW032811Q	Cs-134	Filtered	-0.18 U	0.86	0.25
RD-94	SMRD-94-GW032811	Cs-134	Suspended	-0.09 U	0.79	0.23	SMDUP-04-GW032811Q	Cs-134	Suspended	-0.13 U	0.81	0.24
RD-94	SMRD-94-GW032811	Cs-137	Filtered	0.53	1.1	0.33	SMDUP-04-GW032811Q	Cs-137	Filtered	0.27 U	1.2	0.37
RD-94	SMRD-94-GW032811	Cs-137	Suspended	-0.01 U	0.74	0.22	SMDUP-04-GW032811Q	Cs-137	Suspended	-0.06 U	0.6	0.17
RD-94	SMRD-94-GW032811	Eu-152	Filtered	0.04 U	3.3	0.95	SMDUP-04-GW032811Q	Eu-152	Filtered	-0.79 U	3.2	0.95
RD-94	SMRD-94-GW032811	Eu-152	Suspended	0.23 U	1.7	0.49	SMDUP-04-GW032811Q	Eu-152	Suspended	-0.34 U	1.9	0.55

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-94	SMRD-94-GW032811	Eu-154	Filtered	3.3 U	9.3	2.8	SMDUP-04-GW032811Q	Eu-154	Filtered	0.9 U	9.4	2.7
RD-94	SMRD-94-GW032811	Eu-154	Suspended	-1.1 U	6	1.8	SMDUP-04-GW032811Q	Eu-154	Suspended	2.2 U	6	1.8
RD-94	SMRD-94-GW032811	Eu-155	Filtered	-0.7 U	3.4	1	SMDUP-04-GW032811Q	Eu-155	Filtered	0.004 U	2.6	0.78
RD-94	SMRD-94-GW032811	Eu-155	Suspended	0.07 U	1.4	0.41	SMDUP-04-GW032811Q	Eu-155	Suspended	0.04 U	1.2	0.36
RD-94	SMRD-94-GW032811	gross_alpha	Filtered	28.5 L	0.9	1.7	SMDUP-04-GW032811Q	gross_alpha	Filtered	26.4 L	0.7	1.6
RD-94	SMRD-94-GW032811	gross_alpha	Suspended	0.86	0.52	0.21	SMDUP-04-GW032811Q	gross_alpha	Suspended	1.32	0.79	0.34
RD-94	SMRD-94-GW032811	gross_beta	Filtered	16.5	4.6	2.1	SMDUP-04-GW032811Q	gross_beta	Filtered	11.8	4.4	1.8
RD-94	SMRD-94-GW032811	H-3	Total	5000	170	250	SMDUP-04-GW032811Q	H-3	Total	5000	160	240
RD-94	SMRD-94-GW032811	Ho-166m	Filtered	-0.74 U	2.1	0.64	SMDUP-04-GW032811Q	Ho-166m	Filtered	-0.09 U	1.6	0.46
RD-94	SMRD-94-GW032811	Ho-166m	Suspended	-0.27 U	1.2	0.37	SMDUP-04-GW032811Q	Ho-166m	Suspended	0.03 U	1.1	0.33
RD-94	SMRD-94-GW032811	K-40	Filtered	6 U	17	4.3	SMDUP-04-GW032811Q	K-40	Filtered	9.5	18	6
RD-94	SMRD-94-GW032811	K-40	Suspended	-4.5 U	12	4.4	SMDUP-04-GW032811Q	K-40	Suspended	2.7 U	9.7	2.7
RD-94	SMRD-94-GW032811	Na-22	Filtered	-0.14 U	1.2	0.36	SMDUP-04-GW032811Q	Na-22	Filtered	-0.12 U	1.2	0.36
RD-94	SMRD-94-GW032811	Na-22	Suspended	-0.18 U	0.78	0.23	SMDUP-04-GW032811Q	Na-22	Suspended	0.1 U	0.7	0.2
RD-94	SMRD-94-GW032811	Nb-94	Filtered	0.09 U	0.91	0.26	SMDUP-04-GW032811Q	Nb-94	Filtered	0.3 U	0.94	0.28
RD-94	SMRD-94-GW032811	Nb-94	Suspended	0.16 U	0.66	0.2	SMDUP-04-GW032811Q	Nb-94	Suspended	0.34	0.65	0.2
RD-94	SMRD-94-GW032811	Np-236	Filtered	-0.11 U	2.3	0.67	SMDUP-04-GW032811Q	Np-236	Filtered	-0.42 U	2.4	0.73
RD-94	SMRD-94-GW032811	Np-236	Suspended	-0.28 U	1.2	0.37	SMDUP-04-GW032811Q	Np-236	Suspended	0.17 U	1.2	0.37
RD-94	SMRD-94-GW032811	Np-239	Filtered	1.6 U	7.3	2.2	SMDUP-04-GW032811Q	Np-239	Filtered	0.4 U	7.6	2.2
RD-94	SMRD-94-GW032811	Np-239	Suspended	-0.04 U	3.9	1.1	SMDUP-04-GW032811Q	Np-239	Suspended	-0.2 U	3.8	1.1
RD-94	SMRD-94-GW032811	Pa-231	Filtered	-9 U	52	15	SMDUP-04-GW032811Q	Pa-231	Filtered	-10 U	52	16

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-94	SMRD-94-GW032811	Pa-231	Suspended	-4.2 U	25	7.4	SMDUP-04-GW032811Q	Pa-231	Suspended	-5.1 U	26	7.9
RD-94	SMRD-94-GW032811	Pb-212	Filtered	1.09 U	2.3	0.71	SMDUP-04-GW032811Q	Pb-212	Filtered	1.5	2.6	1
RD-94	SMRD-94-GW032811	Pb-212	Suspended	0.4 U	1.2	0.43	SMDUP-04-GW032811Q	Pb-212	Suspended	0.24 U	1.2	0.42
RD-94	SMRD-94-GW032811	Pb-214	Filtered	0.8 U	2.4	0.87	SMDUP-04-GW032811Q	Pb-214	Filtered	0.52 U	2.7	0.74
RD-94	SMRD-94-GW032811	Pb-214	Suspended	0.48 U	1.5	0.41	SMDUP-04-GW032811Q	Pb-214	Suspended	-0.11 U	1.5	0.57
RD-94	SMRD-94-GW032811	Sb-125	Filtered	0.4 U	11	3.3	SMDUP-04-GW032811Q	Sb-125	Filtered	-0.4 U	12	3.6
RD-94	SMRD-94-GW032811	Sb-125	Suspended	0.3 U	5.8	1.7	SMDUP-04-GW032811Q	Sb-125	Suspended	0.7 U	5.7	1.7
RD-94	SMRD-94-GW032811	Sn-126	Filtered	-0.01 U	1.2	0.36	SMDUP-04-GW032811Q	Sn-126	Filtered	0.48 U	1.1	0.33
RD-94	SMRD-94-GW032811	Sn-126	Suspended	0.43	0.75	0.23	SMDUP-04-GW032811Q	Sn-126	Suspended	0.25 U	0.76	0.23
RD-94	SMRD-94-GW032811	Sr-90	Suspended	-0.026 U	0.12	0.035	SMDUP-04-GW032811Q	Sr-90	Suspended	0.038	0.063	0.02
RD-94	SMRD-94-GW032811	Tl-208	Filtered	0.43 U	1.3	0.39	SMDUP-04-GW032811Q	Tl-208	Filtered	0.93	1.3	0.51
RD-94	SMRD-94-GW032811	Tl-208	Suspended	0.49	0.77	0.27	SMDUP-04-GW032811Q	Tl-208	Suspended	-0.01 U	0.86	0.24
RD-94	SMRD-94-GW032811	Tm-171	Filtered	140 U	340	100	SMDUP-04-GW032811Q	Tm-171	Filtered	-220 U	350	110
RD-94	SMRD-94-GW032811	Tm-171	Suspended	41 U	120	35	SMDUP-04-GW032811Q	Tm-171	Suspended	-15 U	120	34
RD-94	SMRD-94-GW032811	U-233/234	Filtered	18.1	0.006	0.79	SMDUP-04-GW032811Q	U-233/234	Filtered	18.1	0.02	0.79
RD-94	SMRD-94-GW032811	U-233/234	Suspended	0.081	0.016	0.014	SMDUP-04-GW032811Q	U-233/234	Suspended	0.1	0.005	0.014
RD-94	SMRD-94-GW032811	U-235/236	Filtered	0.815	0.024	0.06	SMDUP-04-GW032811Q	U-235/236	Filtered	0.792	0.027	0.061
RD-94	SMRD-94-GW032811	U-235/236	Suspended	0.0033 U	0.019	0.0048	SMDUP-04-GW032811Q	U-235/236	Suspended	0.0023 U	0.0061	0.0023
RD-94	SMRD-94-GW032811	U-238	Filtered	17.3	0.02	0.75	SMDUP-04-GW032811Q	U-238	Filtered	17.3	0.007	0.76
RD-94	SMRD-94-GW032811	U-238	Suspended	0.101	0.005	0.015	SMDUP-04-GW032811Q	U-238	Suspended	0.093	0.005	0.014
RD-91	SMRD-91-GW033011	Ac-227	Filtered	-5.2 U	9.5	2.9	SMDUP-05-GW033011Q	Ac-227	Filtered	-6.2 U	11	3.4

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-91	SMRD-91-GW033011	Ac-227	Suspended	-0.9 U	4.5	1.3	SMDUP-05-GW033011Q	Ac-227	Suspended	3.18	2.3	0.76
RD-91	SMRD-91-GW033011	Ac-228	Filtered	3.4	3.6	1.2	SMDUP-05-GW033011Q	Ac-228	Filtered	-0.3 U	5.5	1.6
RD-91	SMRD-91-GW033011	Ac-228	Suspended	-0.15 U	2.8	0.83	SMDUP-05-GW033011Q	Ac-228	Suspended	-1.2 U	2.9	1.6
RD-91	SMRD-91-GW033011	Bi-212	Filtered	-0.9 U	9.2	3.9	SMDUP-05-GW033011Q	Bi-212	Filtered	-0.1 U	11	3.2
RD-91	SMRD-91-GW033011	Bi-212	Suspended	1.8 U	6	1.8	SMDUP-05-GW033011Q	Bi-212	Suspended	0.9 U	6	1.8
RD-91	SMRD-91-GW033011	Bi-214	Filtered	0.8 U	2.9	1.1	SMDUP-05-GW033011Q	Bi-214	Filtered	1.8	3.5	1.2
RD-91	SMRD-91-GW033011	Bi-214	Suspended	0.83	1.6	0.57	SMDUP-05-GW033011Q	Bi-214	Suspended	2.24	1.7	0.78
RD-91	SMRD-91-GW033011	Cd-113m	Filtered	4200 U	13000	4000	SMDUP-05-GW033011Q	Cd-113m	Filtered	2200 U	18000	5500
RD-91	SMRD-91-GW033011	Cd-113m	Suspended	-2400 U	7400	2200	SMDUP-05-GW033011Q	Cd-113m	Suspended	1900 U	6300	1900
RD-91	SMRD-91-GW033011	Co-60	Filtered	0.27 U	1.1	0.31	SMDUP-05-GW033011Q	Co-60	Filtered	0.14 U	1.3	0.37
RD-91	SMRD-91-GW033011	Co-60	Suspended	0.2 U	0.71	0.21	SMDUP-05-GW033011Q	Co-60	Suspended	0 U	0.85	0.24
RD-91	SMRD-91-GW033011	Cs-134	Filtered	0.03 U	1.7	0.51	SMDUP-05-GW033011Q	Cs-134	Filtered	-0.98 U	1.7	0.52
RD-91	SMRD-91-GW033011	Cs-134	Suspended	0.23 U	0.77	0.23	SMDUP-05-GW033011Q	Cs-134	Suspended	-0.19 U	0.74	0.22
RD-91	SMRD-91-GW033011	Cs-137	Filtered	-0.005 U	1.1	0.32	SMDUP-05-GW033011Q	Cs-137	Filtered	0.51 U	1.4	0.41
RD-91	SMRD-91-GW033011	Cs-137	Suspended	0.29 U	0.7	0.21	SMDUP-05-GW033011Q	Cs-137	Suspended	-0.11 U	0.78	0.23
RD-91	SMRD-91-GW033011	Eu-152	Filtered	0.4 U	3	0.9	SMDUP-05-GW033011Q	Eu-152	Filtered	0.02 U	4.1	1.2
RD-91	SMRD-91-GW033011	Eu-152	Suspended	-0.04 U	1.9	0.55	SMDUP-05-GW033011Q	Eu-152	Suspended	0.17 U	1.7	0.5
RD-91	SMRD-91-GW033011	Eu-154	Filtered	-1.1 U	9.2	2.7	SMDUP-05-GW033011Q	Eu-154	Filtered	-1 U	13	3.8
RD-91	SMRD-91-GW033011	Eu-154	Suspended	0.05 U	5.8	1.7	SMDUP-05-GW033011Q	Eu-154	Suspended	0.5 U	5.3	1.5
RD-91	SMRD-91-GW033011	Eu-155	Filtered	-0.5 U	2.8	0.85	SMDUP-05-GW033011Q	Eu-155	Filtered	0.4 U	4	1.2
RD-91	SMRD-91-GW033011	Eu-155	Suspended	0.07 U	1.2	0.37	SMDUP-05-GW033011Q	Eu-155	Suspended	0.5 U	1.3	0.4

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-91	SMRD-91-GW033011	H-3	Total	-53 U	140	39	SMDUP-05-GW033011Q	H-3	Total	-19 U	130	38
RD-91	SMRD-91-GW033011	Ho-166m	Filtered	0.16 U	1.8	0.54	SMDUP-05-GW033011Q	Ho-166m	Filtered	-0.01 U	2.4	0.69
RD-91	SMRD-91-GW033011	Ho-166m	Suspended	0.11 U	1.2	0.34	SMDUP-05-GW033011Q	Ho-166m	Suspended	0.03 U	1.2	0.34
RD-91	SMRD-91-GW033011	K-40	Filtered	-4.1 U	17	5.9	SMDUP-05-GW033011Q	K-40	Filtered	9.8	20	5.9
RD-91	SMRD-91-GW033011	K-40	Suspended	14.3	9.6	3.4	SMDUP-05-GW033011Q	K-40	Suspended	-2.2 U	12	4
RD-91	SMRD-91-GW033011	Na-22	Filtered	0.29 U	1.1	0.32	SMDUP-05-GW033011Q	Na-22	Filtered	-0.34 U	1.7	0.5
RD-91	SMRD-91-GW033011	Na-22	Suspended	-0.02 U	0.8	0.23	SMDUP-05-GW033011Q	Na-22	Suspended	-0.02 U	0.71	0.2
RD-91	SMRD-91-GW033011	Nb-94	Filtered	0.5	0.96	0.29	SMDUP-05-GW033011Q	Nb-94	Filtered	0.56 U	1.2	0.38
RD-91	SMRD-91-GW033011	Nb-94	Suspended	0.00001 U	0.66	0.19	SMDUP-05-GW033011Q	Nb-94	Suspended	0.01 U	0.66	0.19
RD-91	SMRD-91-GW033011	Np-236	Filtered	-0.64 U	2.7	0.81	SMDUP-05-GW033011Q	Np-236	Filtered	-0.82 U	3.3	0.99
RD-91	SMRD-91-GW033011	Np-236	Suspended	0.21 U	1.1	0.34	SMDUP-05-GW033011Q	Np-236	Suspended	-0.03 U	1.2	0.36
RD-91	SMRD-91-GW033011	Np-239	Filtered	0.3 U	7.2	2.1	SMDUP-05-GW033011Q	Np-239	Filtered	-2.8 U	9.6	2.9
RD-91	SMRD-91-GW033011	Np-239	Suspended	0.7 U	3.9	1.2	SMDUP-05-GW033011Q	Np-239	Suspended	-1.1 U	3.6	1.1
RD-91	SMRD-91-GW033011	Pa-231	Filtered	13 U	48	14	SMDUP-05-GW033011Q	Pa-231	Filtered	0.4 U	66	19
RD-91	SMRD-91-GW033011	Pa-231	Suspended	0 U	28	8.2	SMDUP-05-GW033011Q	Pa-231	Suspended	1.2 U	22	6.3
RD-91	SMRD-91-GW033011	Pb-212	Filtered	0.24 U	2.3	0.73	SMDUP-05-GW033011Q	Pb-212	Filtered	0.06 U	2.8	0.96
RD-91	SMRD-91-GW033011	Pb-212	Suspended	1.48	1.2	0.45	SMDUP-05-GW033011Q	Pb-212	Suspended	0.26 U	1.1	0.34
RD-91	SMRD-91-GW033011	Pb-214	Filtered	0.65 U	2.5	0.9	SMDUP-05-GW033011Q	Pb-214	Filtered	0.46 U	3.5	0.95
RD-91	SMRD-91-GW033011	Pb-214	Suspended	-0.21 U	1.5	0.58	SMDUP-05-GW033011Q	Pb-214	Suspended	0.57	1.1	0.35
RD-91	SMRD-91-GW033011	Sb-125	Filtered	2.2 U	12	3.6	SMDUP-05-GW033011Q	Sb-125	Filtered	4.3 U	15	4.4
RD-91	SMRD-91-GW033011	Sb-125	Suspended	0 U	5.7	1.7	SMDUP-05-GW033011Q	Sb-125	Suspended	0.6 U	5.8	1.7

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-91	SMRD-91-GW033011	Sn-126	Filtered	0.14 U	1.4	0.4	SMDUP-05-GW033011Q	Sn-126	Filtered	0.21 U	1.7	0.49
RD-91	SMRD-91-GW033011	Sn-126	Suspended	0 U	0.83	0.24	SMDUP-05-GW033011Q	Sn-126	Suspended	0.35 U	0.75	0.23
RD-91	SMRD-91-GW033011	Tl-208	Filtered	0.61 U	1.3	0.42	SMDUP-05-GW033011Q	Tl-208	Filtered	0.8	1.5	0.5
RD-91	SMRD-91-GW033011	Tl-208	Suspended	0.26 U	0.88	0.25	SMDUP-05-GW033011Q	Tl-208	Suspended	0.64	0.77	0.29
RD-91	SMRD-91-GW033011	Tm-171	Filtered	-20 U	370	110	SMDUP-05-GW033011Q	Tm-171	Filtered	93 U	320	96
RD-91	SMRD-91-GW033011	Tm-171	Suspended	19 U	120	35	SMDUP-05-GW033011Q	Tm-171	Suspended	9 U	100	30
RD-91	SMRD-91-GW033011	U-233/234	Filtered	5.2	0.006	0.24	SMDUP-05-GW033011Q	U-233/234	Filtered	6.37	0.005	0.29
RD-91	SMRD-91-GW033011	U-233/234	Suspended	0.099	0.013	0.016	SMDUP-05-GW033011Q	U-233/234	Suspended	0.0378	0.014	0.0094
RD-91	SMRD-91-GW033011	U-235/236	Filtered	0.199	0.022	0.025	SMDUP-05-GW033011Q	U-235/236	Filtered	0.274	0.007	0.028
RD-91	SMRD-91-GW033011	U-235/236	Suspended	0.0079	0.016	0.0053	SMDUP-05-GW033011Q	U-235/236	Suspended	0.0005 U	0.017	0.0035
RD-91	SMRD-91-GW033011	U-238	Filtered	4.29	0.006	0.2	SMDUP-05-GW033011Q	U-238	Filtered	5.27	0.01	0.24
RD-91	SMRD-91-GW033011	U-238	Suspended	0.108	0.013	0.016	SMDUP-05-GW033011Q	U-238	Suspended	0.0166	0.0056	0.0059
RD-97	SMRD-97-GW033011	Ac-227	Filtered	-7.6 L U	11	3.5	SMDUP-06-GW033011	Ac-227	Filtered	-7 L U	9.7	3
RD-97	SMRD-97-GW033011	Ac-227	Suspended	-4 L U	5	1.6	SMDUP-06-GW033011	Ac-227	Suspended	0.1 U	6.1	1.8
RD-97	SMRD-97-GW033011	Ac-228	Filtered	6.5	5.1	1.7	SMDUP-06-GW033011	Ac-228	Filtered	3.3	3.4	1.1
RD-97	SMRD-97-GW033011	Ac-228	Suspended	3.5	2.4	0.96	SMDUP-06-GW033011	Ac-228	Suspended	3.93	2.3	0.79
RD-97	SMRD-97-GW033011	Am-241	Filtered	0.0119	0.018	0.0063	SMDUP-06-GW033011	Am-241	Filtered	0.0061 U	0.019	0.0054
RD-97	SMRD-97-GW033011	Am-241	Suspended	0.0011 U	0.017	0.0041	SMDUP-06-GW033011	Am-241	Suspended	0.0089	0.014	0.0048
RD-97	SMRD-97-GW033011	Bi-212	Filtered	4.8	10	3.1	SMDUP-06-GW033011	Bi-212	Filtered	0.3 U	9	2.5
RD-97	SMRD-97-GW033011	Bi-212	Suspended	1.9 U	6	1.8	SMDUP-06-GW033011	Bi-212	Suspended	2 U	5.8	1.7
RD-97	SMRD-97-GW033011	Bi-214	Filtered	1.1 U	3.9	1.6	SMDUP-06-GW033011	Bi-214	Filtered	1.4	2.8	1.1

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-97	SMRD-97-GW033011	Bi-214	Suspended	1.12	1.9	0.81	SMDUP-06-GW033011	Bi-214	Suspended	3.35	1.7	0.72
RD-97	SMRD-97-GW033011	Cd-113m	Filtered	-5500 U	18000	5400	SMDUP-06-GW033011	Cd-113m	Filtered	200 U	13000	3700
RD-97	SMRD-97-GW033011	Cd-113m	Suspended	-600 U	7300	2200	SMDUP-06-GW033011	Cd-113m	Suspended	700 U	7300	2200
RD-97	SMRD-97-GW033011	Cm-243/244	Filtered	0.0039 U	0.018	0.0047	SMDUP-06-GW033011	Cm-243/244	Filtered	0.004 U	0.04	0.011
RD-97	SMRD-97-GW033011	Cm-243/244	Suspended	0.0003 U	0.012	0.0023	SMDUP-06-GW033011	Cm-243/244	Suspended	0 U	0.0044	0.0016
RD-97	SMRD-97-GW033011	Cm-245/246	Filtered	0.0099 J	0.019	0.0062	SMDUP-06-GW033011	Cm-245/246	Filtered	0.0091 J	0.0061	0.0045
RD-97	SMRD-97-GW033011	Cm-245/246	Suspended	0.0207	0.017	0.0074	SMDUP-06-GW033011	Cm-245/246	Suspended	0.0059	0.012	0.004
RD-97	SMRD-97-GW033011	Co-60	Filtered	0.01 U	1.7	0.47	SMDUP-06-GW033011	Co-60	Filtered	-0.05 U	1.1	0.32
RD-97	SMRD-97-GW033011	Co-60	Suspended	0.32	0.68	0.21	SMDUP-06-GW033011	Co-60	Suspended	0.13 U	0.76	0.22
RD-97	SMRD-97-GW033011	Cs-134	Filtered	0.02 U	0.95	0.27	SMDUP-06-GW033011	Cs-134	Filtered	0 U	1.7	0.51
RD-97	SMRD-97-GW033011	Cs-134	Suspended	-0.22 U	0.86	0.26	SMDUP-06-GW033011	Cs-134	Suspended	-0.25 U	0.86	0.26
RD-97	SMRD-97-GW033011	Cs-137	Filtered	-0.39 U	1.6	0.48	SMDUP-06-GW033011	Cs-137	Filtered	0.21 U	0.97	0.29
RD-97	SMRD-97-GW033011	Cs-137	Suspended	-0.007 U	0.71	0.21	SMDUP-06-GW033011	Cs-137	Suspended	-0.13 U	0.67	0.2
RD-97	SMRD-97-GW033011	Eu-152	Filtered	0.1 U	3.7	1.1	SMDUP-06-GW033011	Eu-152	Filtered	0.41 U	3.1	0.93
RD-97	SMRD-97-GW033011	Eu-152	Suspended	0.22 U	1.4	0.42	SMDUP-06-GW033011	Eu-152	Suspended	0.41 U	1.8	0.53
RD-97	SMRD-97-GW033011	Eu-154	Filtered	-0.9 U	13	3.6	SMDUP-06-GW033011	Eu-154	Filtered	-1.8 U	7.8	2.3
RD-97	SMRD-97-GW033011	Eu-154	Suspended	0.8 U	6.4	1.9	SMDUP-06-GW033011	Eu-154	Suspended	1.1 U	6	1.8
RD-97	SMRD-97-GW033011	Eu-155	Filtered	0 U	4.2	1.3	SMDUP-06-GW033011	Eu-155	Filtered	-0.93 U	3.1	0.92
RD-97	SMRD-97-GW033011	Eu-155	Suspended	0.26 U	1.2	0.36	SMDUP-06-GW033011	Eu-155	Suspended	-0.08 U	1.2	0.35
RD-97	SMRD-97-GW033011	gross_alpha	Filtered	6.24 J	0.59	0.57	SMDUP-06-GW033011	gross_alpha	Filtered	7.98 J	0.63	0.66
RD-97	SMRD-97-GW033011	gross_alpha	Suspended	2.97	0.56	0.37	SMDUP-06-GW033011	gross_alpha	Suspended	2.34	0.52	0.33

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-97	SMRD-97-GW033011	gross_beta	Suspended	1.58	0.7	0.28	SMDUP-06-GW033011	gross_beta	Suspended	4.97	0.72	0.43
RD-97	SMRD-97-GW033011	Ho-166m	Filtered	-0.3 U	2.5	0.71	SMDUP-06-GW033011	Ho-166m	Filtered	0.71 SK	1.2	0.38
RD-97	SMRD-97-GW033011	Ho-166m	Suspended	0.16 U	1.2	0.34	SMDUP-06-GW033011	Ho-166m	Suspended	-0.004 U	1	0.29
RD-97	SMRD-97-GW033011	I-129	Filtered	-0.08 U	0.57	0.17	SMDUP-06-GW033011	I-129	Filtered	0.21 U	0.69	0.21
RD-97	SMRD-97-GW033011	I-129	Suspended	0.02 U	0.47	0.14	SMDUP-06-GW033011	I-129	Suspended	0.09 U	0.81	0.25
RD-97	SMRD-97-GW033011	K-40	Filtered	25.3	20	7.3	SMDUP-06-GW033011	K-40	Filtered	8.6	15	5.1
RD-97	SMRD-97-GW033011	K-40	Suspended	-2 U	11	3.4	SMDUP-06-GW033011	K-40	Suspended	7.4	9.2	2.8
RD-97	SMRD-97-GW033011	Na-22	Filtered	0.06 U	1.5	0.41	SMDUP-06-GW033011	Na-22	Filtered	-0.26 U	1.3	0.37
RD-97	SMRD-97-GW033011	Na-22	Suspended	0.01 U	0.62	0.17	SMDUP-06-GW033011	Na-22	Suspended	-0.07 U	0.7	0.2
RD-97	SMRD-97-GW033011	Nb-94	Filtered	-0.28 U	1.4	0.41	SMDUP-06-GW033011	Nb-94	Filtered	0.5 U	1.1	0.33
RD-97	SMRD-97-GW033011	Nb-94	Suspended	0.001 U	0.66	0.19	SMDUP-06-GW033011	Nb-94	Suspended	-0.01 U	0.69	0.2
RD-97	SMRD-97-GW033011	Np-236	Filtered	0.45 U	2.8	0.82	SMDUP-06-GW033011	Np-236	Filtered	-0.1 U	2.7	0.81
RD-97	SMRD-97-GW033011	Np-236	Suspended	-0.33 U	1.3	0.38	SMDUP-06-GW033011	Np-236	Suspended	-0.13 U	1.2	0.36
RD-97	SMRD-97-GW033011	Np-237	Filtered	-0.0024 U	0.026	0.0024	SMDUP-06-GW033011	Np-237	Filtered	-0.0021 U	0.023	0.0021
RD-97	SMRD-97-GW033011	Np-237	Suspended	-0.002 U	0.022	0.002	SMDUP-06-GW033011	Np-237	Suspended	-0.0041 U	0.034	0.0057
RD-97	SMRD-97-GW033011	Np-239	Filtered	-2.4 U	9.5	2.9	SMDUP-06-GW033011	Np-239	Filtered	0.07 U	6.9	2
RD-97	SMRD-97-GW033011	Np-239	Suspended	0.3 U	3.9	1.1	SMDUP-06-GW033011	Np-239	Suspended	0.6 U	3.8	1.1
RD-97	SMRD-97-GW033011	Pa-231	Filtered	0 U	73	21	SMDUP-06-GW033011	Pa-231	Filtered	8 U	48	14
RD-97	SMRD-97-GW033011	Pa-231	Suspended	-4 U	28	8.3	SMDUP-06-GW033011	Pa-231	Suspended	-2.4 U	27	8
RD-97	SMRD-97-GW033011	Pb-212	Filtered	0.84 U	2.5	0.75	SMDUP-06-GW033011	Pb-212	Filtered	-0.33 U	2.4	0.83
RD-97	SMRD-97-GW033011	Pb-212	Suspended	1.27	1.1	0.42	SMDUP-06-GW033011	Pb-212	Suspended	1.18	1.1	0.39

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-97	SMRD-97-GW033011	Pb-214	Filtered	1.3 U	3.2	1.2	SMDUP-06-GW033011	Pb-214	Filtered	0.6 U	2.7	0.74
RD-97	SMRD-97-GW033011	Pb-214	Suspended	-0.4 U	1.4	0.59	SMDUP-06-GW033011	Pb-214	Suspended	1.75	1.4	0.49
RD-97	SMRD-97-GW033011	Pu-238	Filtered	0.0032 U	0.019	0.005	SMDUP-06-GW033011	Pu-238	Filtered	0.0064 U	0.023	0.0064
RD-97	SMRD-97-GW033011	Pu-238	Suspended	0.0176	0.011	0.0056	SMDUP-06-GW033011	Pu-238	Suspended	0.0134	0.015	0.0059
RD-97	SMRD-97-GW033011	Pu-239/240	Filtered	0.004 U	0.0053	0.0028	SMDUP-06-GW033011	Pu-239/240	Filtered	0.0021 U	0.016	0.0037
RD-97	SMRD-97-GW033011	Pu-239/240	Suspended	0.0029 U	0.004	0.0021	SMDUP-06-GW033011	Pu-239/240	Suspended	0.0018 U	0.0049	0.0018
RD-97	SMRD-97-GW033011	Pu-242	Filtered	0 U	0.0053	0.002	SMDUP-06-GW033011	Pu-242	Filtered	0 U	0.016	0.003
RD-97	SMRD-97-GW033011	Pu-242	Suspended	-0.0044 U	0.016	0.0028	SMDUP-06-GW033011	Pu-242	Suspended	0.0018 U	0.0049	0.0018
RD-97	SMRD-97-GW033011	Ra-226	Filtered	1.28	0.14	0.13	SMDUP-06-GW033011	Ra-226	Filtered	1.26	0.15	0.13
RD-97	SMRD-97-GW033011	Ra-226	Suspended	1.03	0.22	0.13	SMDUP-06-GW033011	Ra-226	Suspended	1.25	0.22	0.14
RD-97	SMRD-97-GW033011	Sb-125	Filtered	1.7 U	15	4.5	SMDUP-06-GW033011	Sb-125	Filtered	-1.4 U	11	3.2
RD-97	SMRD-97-GW033011	Sb-125	Suspended	0.5 U	5.7	1.7	SMDUP-06-GW033011	Sb-125	Suspended	-0.4 U	5.7	1.7
RD-97	SMRD-97-GW033011	Sn-126	Filtered	-0.14 U	1.6	0.47	SMDUP-06-GW033011	Sn-126	Filtered	-0.04 U	1.4	0.4
RD-97	SMRD-97-GW033011	Sn-126	Suspended	0.26 U	0.72	0.22	SMDUP-06-GW033011	Sn-126	Suspended	0.25 U	0.79	0.24
RD-97	SMRD-97-GW033011	Sr-90	Filtered	0.073 U	0.17	0.051	SMDUP-06-GW033011	Sr-90	Filtered	0.063	0.096	0.03
RD-97	SMRD-97-GW033011	Sr-90	Suspended	0.152	0.091	0.031	SMDUP-06-GW033011	Sr-90	Suspended	0.091	0.092	0.029
RD-97	SMRD-97-GW033011	Tc-99	Filtered	-0.14 U	1.2	0.38	SMDUP-06-GW033011	Tc-99	Filtered	-0.14 U	1.3	0.4
RD-97	SMRD-97-GW033011	Tc-99	Suspended	0.09 U	1.5	0.44	SMDUP-06-GW033011	Tc-99	Suspended	0.12 U	1.3	0.4
RD-97	SMRD-97-GW033011	Tl-208	Filtered	0.28 U	1.6	0.51	SMDUP-06-GW033011	Tl-208	Filtered	-0.43 U	1.5	0.56
RD-97	SMRD-97-GW033011	Tl-208	Suspended	1.08	0.75	0.32	SMDUP-06-GW033011	Tl-208	Suspended	0.73	0.81	0.33
RD-97	SMRD-97-GW033011	Tm-171	Filtered	120 U	450	130	SMDUP-06-GW033011	Tm-171	Filtered	-180 U	350	110

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-97	SMRD-97-GW033011	Tm-171	Suspended	1 U	120	34	SMDUP-06-GW033011	Tm-171	Suspended	0.2 U	120	36
RD-97	SMRD-97-GW033011	U-233/234	Filtered	3.77	0.006	0.18	SMDUP-06-GW033011	U-233/234	Filtered	3.78	0.02	0.19
RD-97	SMRD-97-GW033011	U-233/234	Suspended	0.149	0.02	0.02	SMDUP-06-GW033011	U-233/234	Suspended	0.14	0.006	0.019
RD-97	SMRD-97-GW033011	U-235/236	Filtered	0.175	0.007	0.023	SMDUP-06-GW033011	U-235/236	Filtered	0.16	0.026	0.024
RD-97	SMRD-97-GW033011	U-235/236	Suspended	0.0005 U	0.017	0.0033	SMDUP-06-GW033011	U-235/236	Suspended	0.0026 U	0.0069	0.0026
RD-97	SMRD-97-GW033011	U-238	Filtered	3.46	0.006	0.17	SMDUP-06-GW033011	U-238	Filtered	3.4	0.007	0.17
RD-97	SMRD-97-GW033011	U-238	Suspended	0.144	0.006	0.019	SMDUP-06-GW033011	U-238	Suspended	0.126	0.006	0.017
RS-11	SMRS-11-GW033111	Ac-227	Filtered	-5.8 U	12	3.7	SMDUP-07-GW033111Q	Ac-227	Filtered	-0.3 U	12	3.6
RS-11	SMRS-11-GW033111	Ac-227	Suspended	-0.6 U	4.2	1.3	SMDUP-07-GW033111Q	Ac-227	Suspended	-0.26 U	3.1	0.91
RS-11	SMRS-11-GW033111	Ac-228	Filtered	3.2	5	1.5	SMDUP-07-GW033111Q	Ac-228	Filtered	2.8	3.6	1.1
RS-11	SMRS-11-GW033111	Ac-228	Suspended	-2.3 U	3.2	4.2	SMDUP-07-GW033111Q	Ac-228	Suspended	1.5	1.5	0.5
RS-11	SMRS-11-GW033111	Bi-212	Filtered	-0.6 U	10	3	SMDUP-07-GW033111Q	Bi-212	Filtered	0.4 U	7.1	2
RS-11	SMRS-11-GW033111	Bi-212	Suspended	2.7	5.2	1.6	SMDUP-07-GW033111Q	Bi-212	Suspended	-0.4 U	4.4	1.3
RS-11	SMRS-11-GW033111	Bi-214	Filtered	-0.6 U	4.1	1.3	SMDUP-07-GW033111Q	Bi-214	Filtered	3.2	2.6	1.2
RS-11	SMRS-11-GW033111	Bi-214	Suspended	1.2	1.8	0.75	SMDUP-07-GW033111Q	Bi-214	Suspended	1.17	1.4	0.62
RS-11	SMRS-11-GW033111	Cd-113m	Filtered	-1400 U	18000	5300	SMDUP-07-GW033111Q	Cd-113m	Filtered	7 U	14000	4100
RS-11	SMRS-11-GW033111	Cd-113m	Suspended	-100 U	5700	1700	SMDUP-07-GW033111Q	Cd-113m	Suspended	700 U	4400	1300
RS-11	SMRS-11-GW033111	Co-60	Filtered	0.25 U	1.6	0.44	SMDUP-07-GW033111Q	Co-60	Filtered	0 U	1.2	0.34
RS-11	SMRS-11-GW033111	Co-60	Suspended	0.009 U	0.7	0.2	SMDUP-07-GW033111Q	Co-60	Suspended	-0.006 U	0.6	0.17
RS-11	SMRS-11-GW033111	Cs-134	Filtered	-0.07 U	1.6	0.48	SMDUP-07-GW033111Q	Cs-134	Filtered	0.05 U	1.2	0.34
RS-11	SMRS-11-GW033111	Cs-134	Suspended	0.33 U	0.79	0.24	SMDUP-07-GW033111Q	Cs-134	Suspended	-0.13 U	0.66	0.2

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RS-11	SMRS-11-GW033111	Cs-137	Filtered	-0.3 U	1.7	0.5	SMDUP-07-GW033111Q	Cs-137	Filtered	-0.005 U	1.2	0.36
RS-11	SMRS-11-GW033111	Cs-137	Suspended	-0.06 U	0.84	0.25	SMDUP-07-GW033111Q	Cs-137	Suspended	-0.13 U	0.6	0.18
RS-11	SMRS-11-GW033111	Eu-152	Filtered	-0.4 U	4.4	1.3	SMDUP-07-GW033111Q	Eu-152	Filtered	-0.55 U	3.4	0.99
RS-11	SMRS-11-GW033111	Eu-152	Suspended	0.28 U	1.7	0.51	SMDUP-07-GW033111Q	Eu-152	Suspended	0.02 U	1.3	0.38
RS-11	SMRS-11-GW033111	Eu-154	Filtered	-0.8 U	16	4.6	SMDUP-07-GW033111Q	Eu-154	Filtered	1 U	9.6	2.8
RS-11	SMRS-11-GW033111	Eu-154	Suspended	0.008 U	5.5	1.6	SMDUP-07-GW033111Q	Eu-154	Suspended	0.9 U	4	1.2
RS-11	SMRS-11-GW033111	Eu-155	Filtered	-0.03 U	3.7	1.1	SMDUP-07-GW033111Q	Eu-155	Filtered	0.04 U	3.5	1
RS-11	SMRS-11-GW033111	Eu-155	Suspended	0.43 U	1.3	0.39	SMDUP-07-GW033111Q	Eu-155	Suspended	-0.12 U	0.98	0.29
RS-11	SMRS-11-GW033111	gross_beta	Filtered	9.4	6.2	2.4	SMDUP-07-GW033111Q	gross_beta	Filtered	11.4	7.8	2.8
RS-11	SMRS-11-GW033111	gross_beta	Suspended	0.75	0.91	0.3	SMDUP-07-GW033111Q	gross_beta	Suspended	0.48 U	0.89	0.28
RS-11	SMRS-11-GW033111	H-3	Total	-30 U	180	54	SMDUP-07-GW033111Q	H-3	Total	-20 U	160	48
RS-11	SMRS-11-GW033111	Ho-166m	Filtered	-0.81 U	2.8	0.83	SMDUP-07-GW033111Q	Ho-166m	Filtered	0.24 U	1.8	0.51
RS-11	SMRS-11-GW033111	Ho-166m	Suspended	0.18 U	0.95	0.28	SMDUP-07-GW033111Q	Ho-166m	Suspended	0.07 U	0.82	0.24
RS-11	SMRS-11-GW033111	K-40	Filtered	1.2 U	22	6.4	SMDUP-07-GW033111Q	K-40	Filtered	-5 U	19	5.8
RS-11	SMRS-11-GW033111	K-40	Suspended	-7.7 U	13	4.7	SMDUP-07-GW033111Q	K-40	Suspended	2.5 U	7.8	2.1
RS-11	SMRS-11-GW033111	Na-22	Filtered	-0.31 U	1.9	0.55	SMDUP-07-GW033111Q	Na-22	Filtered	0.02 U	1	0.28
RS-11	SMRS-11-GW033111	Na-22	Suspended	-0.13 U	0.82	0.24	SMDUP-07-GW033111Q	Na-22	Suspended	0.18 U	0.58	0.17
RS-11	SMRS-11-GW033111	Nb-94	Filtered	0 U	1.5	0.44	SMDUP-07-GW033111Q	Nb-94	Filtered	0.18 U	0.96	0.28
RS-11	SMRS-11-GW033111	Nb-94	Suspended	-0.09 U	0.55	0.16	SMDUP-07-GW033111Q	Nb-94	Suspended	-0.06 U	0.54	0.16
RS-11	SMRS-11-GW033111	Np-236	Filtered	-0.3 U	3.6	1.1	SMDUP-07-GW033111Q	Np-236	Filtered	-0.05 U	3	0.88
RS-11	SMRS-11-GW033111	Np-236	Suspended	-0.3 U	1.3	0.39	SMDUP-07-GW033111Q	Np-236	Suspended	-0.16 U	0.99	0.29

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RS-11	SMRS-11-GW033111	Np-239	Filtered	2.2 U	9.1	2.7	SMDUP-07-GW033111Q	Np-239	Filtered	0 U	7.9	2.3
RS-11	SMRS-11-GW033111	Np-239	Suspended	-0.1 U	3.9	1.1	SMDUP-07-GW033111Q	Np-239	Suspended	0.5 U	2.9	0.86
RS-11	SMRS-11-GW033111	Pa-231	Filtered	5 U	65	19	SMDUP-07-GW033111Q	Pa-231	Filtered	0 U	53	16
RS-11	SMRS-11-GW033111	Pa-231	Suspended	-5.4 U	27	8	SMDUP-07-GW033111Q	Pa-231	Suspended	-2.6 U	20	5.8
RS-11	SMRS-11-GW033111	Pb-212	Filtered	1.28 U	2.9	0.94	SMDUP-07-GW033111Q	Pb-212	Filtered	1.46	2.4	0.8
RS-11	SMRS-11-GW033111	Pb-212	Suspended	0.27 U	1	0.33	SMDUP-07-GW033111Q	Pb-212	Suspended	-0.11 U	0.86	0.35
RS-11	SMRS-11-GW033111	Pb-214	Filtered	0.51 U	3	0.95	SMDUP-07-GW033111Q	Pb-214	Filtered	1.05 U	2.3	0.77
RS-11	SMRS-11-GW033111	Pb-214	Suspended	1.1	1.4	0.56	SMDUP-07-GW033111Q	Pb-214	Suspended	1.32	1	0.43
RS-11	SMRS-11-GW033111	Sb-125	Filtered	0.4 U	16	4.6	SMDUP-07-GW033111Q	Sb-125	Filtered	0.2 U	13	4
RS-11	SMRS-11-GW033111	Sb-125	Suspended	-0.009 U	5.9	1.8	SMDUP-07-GW033111Q	Sb-125	Suspended	-1.4 U	4.7	1.4
RS-11	SMRS-11-GW033111	Sn-126	Filtered	0.72 U	1.6	0.5	SMDUP-07-GW033111Q	Sn-126	Filtered	0.71	1.1	0.35
RS-11	SMRS-11-GW033111	Sr-90	Filtered	0.0005 U	0.13	0.038	SMDUP-07-GW033111Q	Sr-90	Filtered	-0.012 U	0.12	0.033
RS-11	SMRS-11-GW033111	Sr-90	Suspended	-0.037 U	0.07	0.019	SMDUP-07-GW033111Q	Sr-90	Suspended	0.004 U	0.068	0.02
RS-11	SMRS-11-GW033111	Tl-208	Filtered	0.13 U	2	0.52	SMDUP-07-GW033111Q	Tl-208	Filtered	0.32 U	1.3	0.41
RS-11	SMRS-11-GW033111	Tl-208	Suspended	0.2 U	0.78	0.27	SMDUP-07-GW033111Q	Tl-208	Suspended	0.01 U	0.6	0.16
RS-11	SMRS-11-GW033111	Tm-171	Filtered	40 U	480	140	SMDUP-07-GW033111Q	Tm-171	Filtered	170 U	370	110
RS-11	SMRS-11-GW033111	Tm-171	Suspended	23 U	120	36	SMDUP-07-GW033111Q	Tm-171	Suspended	24 U	80	24
RS-11	SMRS-11-GW033111	U-233/234	Filtered	30.9	0.02	1.3	SMDUP-07-GW033111Q	U-233/234	Filtered	30.4	0.02	1.3
RS-11	SMRS-11-GW033111	U-235/236	Filtered	1.47	0.01	0.096	SMDUP-07-GW033111Q	U-235/236	Filtered	1.5	0.024	0.097
RS-11	SMRS-11-GW033111	U-238	Filtered	28.1	0.02	1.2	SMDUP-07-GW033111Q	U-238	Filtered	27	0.02	1.2
RD-70	SMRD-70-GW041811	Ac-227	Filtered	-5.6 U	9	2.8	SMDUP-09-GW041811Q	Ac-227	Filtered	0.5 U	13	3.8

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-70	SMRD-70-GW041811	Ac-227	Suspended	-2.9 L U	4.6	1.4	SMDUP-09-GW041811Q	Ac-227	Suspended	0.05 U	2.5	0.75
RD-70	SMRD-70-GW041811	Ac-228	Filtered	3.7	3.7	1.2	SMDUP-09-GW041811Q	Ac-228	Filtered	4	4.7	1.5
RD-70	SMRD-70-GW041811	Ac-228	Suspended	0.09 U	2.7	0.7	SMDUP-09-GW041811Q	Ac-228	Suspended	1.8	1.7	0.55
RD-70	SMRD-70-GW041811	Bi-212	Filtered	6.6	7.2	2.3	SMDUP-09-GW041811Q	Bi-212	Filtered	2.5 U	8.9	2.6
RD-70	SMRD-70-GW041811	Bi-212	Suspended	2.4	5	1.5	SMDUP-09-GW041811Q	Bi-212	Suspended	0.71 U	2.8	0.82
RD-70	SMRD-70-GW041811	Bi-214	Filtered	2.7	2.6	1.1	SMDUP-09-GW041811Q	Bi-214	Filtered	1.97	2.8	0.93
RD-70	SMRD-70-GW041811	Bi-214	Suspended	0.86	1.6	0.59	SMDUP-09-GW041811Q	Bi-214	Suspended	1.05	1.1	0.4
RD-70	SMRD-70-GW041811	Cd-113m	Filtered	2400 U	13000	3800	SMDUP-09-GW041811Q	Cd-113m	Filtered	3000 U	15000	4400
RD-70	SMRD-70-GW041811	Cd-113m	Suspended	-300 U	6200	1800	SMDUP-09-GW041811Q	Cd-113m	Suspended	20 U	4800	1400
RD-70	SMRD-70-GW041811	Co-60	Filtered	0.3 U	1.1	0.32	SMDUP-09-GW041811Q	Co-60	Filtered	-0.07 U	1.8	0.49
RD-70	SMRD-70-GW041811	Co-60	Suspended	0.33	0.53	0.17	SMDUP-09-GW041811Q	Co-60	Suspended	0.01 U	0.47	0.13
RD-70	SMRD-70-GW041811	Cs-134	Filtered	0 U	1.5	0.43	SMDUP-09-GW041811Q	Cs-134	Filtered	0.22 U	1.4	0.4
RD-70	SMRD-70-GW041811	Cs-134	Suspended	-0.32 U	0.75	0.23	SMDUP-09-GW041811Q	Cs-134	Suspended	-0.03 U	0.49	0.14
RD-70	SMRD-70-GW041811	Cs-137	Filtered	-0.57 U	1.2	0.37	SMDUP-09-GW041811Q	Cs-137	Filtered	0.31 U	1.6	0.46
RD-70	SMRD-70-GW041811	Cs-137	Suspended	-0.2 U	0.77	0.23	SMDUP-09-GW041811Q	Cs-137	Suspended	0.001 U	0.47	0.13
RD-70	SMRD-70-GW041811	Eu-152	Filtered	-0.28 U	3.1	0.9	SMDUP-09-GW041811Q	Eu-152	Filtered	-0.02 U	3.8	1.1
RD-70	SMRD-70-GW041811	Eu-152	Suspended	0.07 U	1.7	0.5	SMDUP-09-GW041811Q	Eu-152	Suspended	0.16 U	1.2	0.35
RD-70	SMRD-70-GW041811	Eu-154	Filtered	1.2 U	8.4	2.4	SMDUP-09-GW041811Q	Eu-154	Filtered	0.6 U	11	3.1
RD-70	SMRD-70-GW041811	Eu-154	Suspended	0.9 U	5	1.5	SMDUP-09-GW041811Q	Eu-154	Suspended	0.1 U	3.9	1.1
RD-70	SMRD-70-GW041811	Eu-155	Filtered	0.008 U	3.3	0.97	SMDUP-09-GW041811Q	Eu-155	Filtered	0.9 U	2.9	0.86
RD-70	SMRD-70-GW041811	Eu-155	Suspended	0.22 U	1.1	0.34	SMDUP-09-GW041811Q	Eu-155	Suspended	0.23 U	0.98	0.29

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-70	SMRD-70-GW041811	gross_alpha	Suspended	0.22 U	0.5	0.15	SMDUP-09-GW041811Q	gross_alpha	Suspended	0.23 U	0.58	0.17
RD-70	SMRD-70-GW041811	gross_beta	Filtered	2.57	1.8	0.63	SMDUP-09-GW041811Q	gross_beta	Filtered	4.31	2.4	0.86
RD-70	SMRD-70-GW041811	gross_beta	Suspended	0.31 U	0.93	0.28	SMDUP-09-GW041811Q	gross_beta	Suspended	0.58	0.88	0.28
RD-70	SMRD-70-GW041811	H-3	Total	-4 U	240	69	SMDUP-09-GW041811Q	H-3	Total	-12 U	150	45
RD-70	SMRD-70-GW041811	Ho-166m	Filtered	0.53 U	1.8	0.53	SMDUP-09-GW041811Q	Ho-166m	Filtered	-0.76 U	2.3	0.68
RD-70	SMRD-70-GW041811	Ho-166m	Suspended	0.317 U	1.2	0.08	SMDUP-09-GW041811Q	Ho-166m	Suspended	0.04 U	0.86	0.25
RD-70	SMRD-70-GW041811	K-40	Filtered	-10.8 U	19	9	SMDUP-09-GW041811Q	K-40	Filtered	-8 U	24	14
RD-70	SMRD-70-GW041811	K-40	Suspended	4 U	11	3.8	SMDUP-09-GW041811Q	K-40	Suspended	-2.8 U	8.8	3.2
RD-70	SMRD-70-GW041811	Na-22	Filtered	-0.19 U	1.2	0.34	SMDUP-09-GW041811Q	Na-22	Filtered	0 U	1.4	0.38
RD-70	SMRD-70-GW041811	Na-22	Suspended	-0.02 U	0.8	0.23	SMDUP-09-GW041811Q	Na-22	Suspended	0.1 U	0.65	0.19
RD-70	SMRD-70-GW041811	Nb-94	Filtered	0.11 U	1.1	0.31	SMDUP-09-GW041811Q	Nb-94	Filtered	-0.15 U	1.3	0.38
RD-70	SMRD-70-GW041811	Nb-94	Suspended	-0.06 U	0.59	0.17	SMDUP-09-GW041811Q	Nb-94	Suspended	0.001 U	0.53	0.15
RD-70	SMRD-70-GW041811	Np-236	Filtered	-0.03 U	2.2	0.65	SMDUP-09-GW041811Q	Np-236	Filtered	-0.35 U	3	0.9
RD-70	SMRD-70-GW041811	Np-236	Suspended	0.07 U	1.1	0.34	SMDUP-09-GW041811Q	Np-236	Suspended	0.17 U	0.98	0.29
RD-70	SMRD-70-GW041811	Np-239	Filtered	1.3 U	7.2	2.1	SMDUP-09-GW041811Q	Np-239	Filtered	-0.5 U	6.4	1.9
RD-70	SMRD-70-GW041811	Np-239	Suspended	-0.1 U	4.1	1.2	SMDUP-09-GW041811Q	Np-239	Suspended	0.08 U	2.5	0.72
RD-70	SMRD-70-GW041811	Pa-231	Filtered	16 U	51	15	SMDUP-09-GW041811Q	Pa-231	Filtered	-0.2 U	57	16
RD-70	SMRD-70-GW041811	Pa-231	Suspended	-1.5 U	27	8.1	SMDUP-09-GW041811Q	Pa-231	Suspended	-0.1 U	20	5.9
RD-70	SMRD-70-GW041811	Pb-212	Filtered	0.38 U	2.1	0.58	SMDUP-09-GW041811Q	Pb-212	Filtered	0.84 U	2.1	0.59
RD-70	SMRD-70-GW041811	Pb-212	Suspended	0.24 U	1.1	0.38	SMDUP-09-GW041811Q	Pb-212	Suspended	0.12 U	0.58	0.18
RD-70	SMRD-70-GW041811	Pb-214	Filtered	0.37 U	2.5	0.94	SMDUP-09-GW041811Q	Pb-214	Filtered	1 U	3.2	1.1

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
RD-70	SMRD-70-GW041811	Pb-214	Suspended	0.36 U	1.6	0.63	SMDUP-09-GW041811Q	Pb-214	Suspended	0.37 U	0.99	0.38
RD-70	SMRD-70-GW041811	Sb-125	Filtered	2.7 U	12	3.7	SMDUP-09-GW041811Q	Sb-125	Filtered	0.2 U	13	3.9
RD-70	SMRD-70-GW041811	Sb-125	Suspended	-0.2 U	5.6	1.7	SMDUP-09-GW041811Q	Sb-125	Suspended	-1.7 U	4.5	1.4
RD-70	SMRD-70-GW041811	Sn-126	Filtered	0.26 U	1.2	0.35	SMDUP-09-GW041811Q	Sn-126	Filtered	0.29 U	1.6	0.45
RD-70	SMRD-70-GW041811	Sn-126	Suspended	0.35 U	0.75	0.23	SMDUP-09-GW041811Q	Sn-126	Suspended	0.22 U	0.63	0.19
RD-70	SMRD-70-GW041811	Tl-208	Filtered	0.26 U	1.2	0.37	SMDUP-09-GW041811Q	Tl-208	Filtered	0.8	1.5	0.49
RD-70	SMRD-70-GW041811	Tl-208	Suspended	0.46	0.63	0.22	SMDUP-09-GW041811Q	Tl-208	Suspended	0.43	0.48	0.19
RD-70	SMRD-70-GW041811	Tm-171	Filtered	90 U	340	100	SMDUP-09-GW041811Q	Tm-171	Filtered	-40 U	340	100
RD-70	SMRD-70-GW041811	Tm-171	Suspended	7 U	110	34	SMDUP-09-GW041811Q	Tm-171	Suspended	42	78	24
RD-70	SMRD-70-GW041811	U-233/234	Filtered	1.42	0.006	0.081	SMDUP-09-GW041811Q	U-233/234	Filtered	1.55	0.006	0.088
RD-70	SMRD-70-GW041811	U-233/234	Suspended	0.0095	0.013	0.0067	SMDUP-09-GW041811Q	U-233/234	Suspended	0.0123	0.019	0.0079
RD-70	SMRD-70-GW041811	U-235/236	Filtered	0.067	0.007	0.013	SMDUP-09-GW041811Q	U-235/236	Filtered	0.052	0.007	0.012
RD-70	SMRD-70-GW041811	U-235/236	Suspended	0.0029 U	0.016	0.004	SMDUP-09-GW041811Q	U-235/236	Suspended	0.0029 U	0.016	0.004
RD-70	SMRD-70-GW041811	U-238	Filtered	1.13	0.014	0.068	SMDUP-09-GW041811Q	U-238	Filtered	1.18	0.015	0.071
RD-70	SMRD-70-GW041811	U-238	Suspended	0.002 U	0.0053	0.0044	SMDUP-09-GW041811Q	U-238	Suspended	-0.0019 U	0.0053	0.0034
WS-07	SMWS-07-GW041911	Ac-227	Filtered	-1 U	9.9	2.9	SMDUP-10-GW041911	Ac-227	Filtered	-4 U	8.9	2.7
WS-07	SMWS-07-GW041911	Ac-227	Suspended	0.06 U	5.2	1.5	SMDUP-10-GW041911	Ac-227	Suspended	0.1 U	5.9	1.7
WS-07	SMWS-07-GW041911	Ac-228	Filtered	3.5	5.1	1.6	SMDUP-10-GW041911	Ac-228	Filtered	2.8	3.7	1.2
WS-07	SMWS-07-GW041911	Ac-228	Suspended	-0.8 U	3.2	1.4	SMDUP-10-GW041911	Ac-228	Suspended	1.11	2.4	0.84
WS-07	SMWS-07-GW041911	Bi-212	Filtered	4.9 U	11	3.3	SMDUP-10-GW041911	Bi-212	Filtered	-0.3 U	8.9	2.7
WS-07	SMWS-07-GW041911	Bi-212	Suspended	3.4	5.3	1.6	SMDUP-10-GW041911	Bi-212	Suspended	0.8 U	5.2	1.5

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
WS-07	SMWS-07-GW041911	Bi-214	Filtered	1.1 U	3.7	1	SMDUP-10-GW041911	Bi-214	Filtered	0.17 U	2.6	0.83
WS-07	SMWS-07-GW041911	Bi-214	Suspended	0.91	1.7	0.61	SMDUP-10-GW041911	Bi-214	Suspended	0.55 U	1.8	0.71
WS-07	SMWS-07-GW041911	Cd-113m	Filtered	4600 U	16000	4900	SMDUP-10-GW041911	Cd-113m	Filtered	-2100 U	14000	4100
WS-07	SMWS-07-GW041911	Cd-113m	Suspended	700 U	7100	2100	SMDUP-10-GW041911	Cd-113m	Suspended	2300 U	7500	2300
WS-07	SMWS-07-GW041911	Co-60	Filtered	0.36 U	1.4	0.42	SMDUP-10-GW041911	Co-60	Filtered	0.04 U	1.1	0.32
WS-07	SMWS-07-GW041911	Co-60	Suspended	-0.02 U	0.57	0.16	SMDUP-10-GW041911	Co-60	Suspended	-0.2 U	0.82	0.24
WS-07	SMWS-07-GW041911	Cs-134	Filtered	-0.66 U	1.8	0.54	SMDUP-10-GW041911	Cs-134	Filtered	-0.31 U	1.2	0.36
WS-07	SMWS-07-GW041911	Cs-134	Suspended	0.21 U	0.72	0.22	SMDUP-10-GW041911	Cs-134	Suspended	-0.19 U	0.84	0.25
WS-07	SMWS-07-GW041911	Cs-137	Filtered	-0.03 U	1.4	0.4	SMDUP-10-GW041911	Cs-137	Filtered	-0.03 U	1.1	0.31
WS-07	SMWS-07-GW041911	Cs-137	Suspended	0.21 U	0.76	0.23	SMDUP-10-GW041911	Cs-137	Suspended	0.2 U	0.76	0.23
WS-07	SMWS-07-GW041911	Eu-152	Filtered	1 U	4.3	1.3	SMDUP-10-GW041911	Eu-152	Filtered	0.4 U	3	0.9
WS-07	SMWS-07-GW041911	Eu-152	Suspended	-0.19 U	1.9	0.55	SMDUP-10-GW041911	Eu-152	Suspended	-0.4 U	1.9	0.55
WS-07	SMWS-07-GW041911	Eu-154	Filtered	0.9 U	11	3.2	SMDUP-10-GW041911	Eu-154	Filtered	1 U	7.5	2.2
WS-07	SMWS-07-GW041911	Eu-154	Suspended	2.8	6	1.8	SMDUP-10-GW041911	Eu-154	Suspended	0.5 U	6	1.7
WS-07	SMWS-07-GW041911	Eu-155	Filtered	-1.5 U	5	1.5	SMDUP-10-GW041911	Eu-155	Filtered	1.55 SK	3	0.9
WS-07	SMWS-07-GW041911	Eu-155	Suspended	0.33 U	1.4	0.42	SMDUP-10-GW041911	Eu-155	Suspended	0.16 U	1.1	0.33
WS-07	SMWS-07-GW041911	gross_alpha	Filtered	2.82	0.48	0.33	SMDUP-10-GW041911	gross_alpha	Filtered	2.66	0.92	0.43
WS-07	SMWS-07-GW041911	gross_alpha	Suspended	0.38	0.59	0.19	SMDUP-10-GW041911	gross_alpha	Suspended	0.51	0.54	0.19
WS-07	SMWS-07-GW041911	gross_beta	Filtered	5.2	2.8	1	SMDUP-10-GW041911	gross_beta	Filtered	3.28	2.9	0.996
WS-07	SMWS-07-GW041911	gross_beta	Suspended	-0.17 U	0.82	0.23	SMDUP-10-GW041911	gross_beta	Suspended	0.37 U	0.79	0.25
WS-07	SMWS-07-GW041911	H-3	Total	-12 U	150	45	SMDUP-10-GW041911	H-3	Total	-75 U	160	45

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
WS-07	SMWS-07-GW041911	Ho-166m	Filtered	-0.12 U	2.5	0.71	SMDUP-10-GW041911	Ho-166m	Filtered	-0.07 U	2	0.57
WS-07	SMWS-07-GW041911	Ho-166m	Suspended	0.4 U	1.2	0.36	SMDUP-10-GW041911	Ho-166m	Suspended	0.21 U	1.2	0.34
WS-07	SMWS-07-GW041911	K-40	Filtered	-9 U	21	19	SMDUP-10-GW041911	K-40	Filtered	14.8	15	5
WS-07	SMWS-07-GW041911	K-40	Suspended	7.9	12	3.2	SMDUP-10-GW041911	K-40	Suspended	3.8 U	11	4
WS-07	SMWS-07-GW041911	Na-22	Filtered	-0.03 U	1.6	0.45	SMDUP-10-GW041911	Na-22	Filtered	-0.21 U	1.3	0.37
WS-07	SMWS-07-GW041911	Na-22	Suspended	0.06 U	0.69	0.2	SMDUP-10-GW041911	Na-22	Suspended	0.07 U	0.75	0.21
WS-07	SMWS-07-GW041911	Nb-94	Filtered	0 U	1.6	0.47	SMDUP-10-GW041911	Nb-94	Filtered	0.39 U	0.95	0.29
WS-07	SMWS-07-GW041911	Nb-94	Suspended	-0.11 U	0.56	0.16	SMDUP-10-GW041911	Nb-94	Suspended	-0.17 U	0.64	0.19
WS-07	SMWS-07-GW041911	Np-236	Filtered	-0.01 U	3.6	1.1	SMDUP-10-GW041911	Np-236	Filtered	0.01 U	2.7	0.81
WS-07	SMWS-07-GW041911	Np-236	Suspended	0.02 U	1.2	0.36	SMDUP-10-GW041911	Np-236	Suspended	0.54 U	1.1	0.34
WS-07	SMWS-07-GW041911	Np-239	Filtered	1 U	8.9	2.6	SMDUP-10-GW041911	Np-239	Filtered	1.3 U	7.3	2.2
WS-07	SMWS-07-GW041911	Np-239	Suspended	0.6 U	3.8	1.1	SMDUP-10-GW041911	Np-239	Suspended	0.5 U	3.8	1.1
WS-07	SMWS-07-GW041911	Pa-231	Filtered	-2 U	61	18	SMDUP-10-GW041911	Pa-231	Filtered	-2 U	41	12
WS-07	SMWS-07-GW041911	Pa-231	Suspended	-2.5 U	26	7.6	SMDUP-10-GW041911	Pa-231	Suspended	2.6 U	26	7.8
WS-07	SMWS-07-GW041911	Pb-212	Filtered	1.02 U	2.8	0.79	SMDUP-10-GW041911	Pb-212	Filtered	1.6	2.6	1
WS-07	SMWS-07-GW041911	Pb-212	Suspended	0.24 U	1.2	0.4	SMDUP-10-GW041911	Pb-212	Suspended	0.36 U	1.1	0.36
WS-07	SMWS-07-GW041911	Pb-214	Filtered	1.46 U	3.1	0.94	SMDUP-10-GW041911	Pb-214	Filtered	0.69 U	2.8	0.77
WS-07	SMWS-07-GW041911	Pb-214	Suspended	1.25	1.4	0.53	SMDUP-10-GW041911	Pb-214	Suspended	0.02 U	1.5	0.51
WS-07	SMWS-07-GW041911	Sb-125	Filtered	3.9 U	16	4.9	SMDUP-10-GW041911	Sb-125	Filtered	4 U	11	3.4
WS-07	SMWS-07-GW041911	Sb-125	Suspended	1.8 U	6	1.8	SMDUP-10-GW041911	Sb-125	Suspended	1.4 U	5.4	1.6
WS-07	SMWS-07-GW041911	Sn-126	Filtered	0.4 U	1.6	0.46	SMDUP-10-GW041911	Sn-126	Filtered	-0.01 U	1.3	0.38

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
WS-07	SMWS-07-GW041911	Sn-126	Suspended	-0.05 U	0.89	0.26	SMDUP-10-GW041911	Sn-126	Suspended	0.28 U	0.84	0.25
WS-07	SMWS-07-GW041911	Sr-90	Filtered	0 U	0.15	0.044	SMDUP-10-GW041911	Sr-90	Filtered	0.082	0.1	0.032
WS-07	SMWS-07-GW041911	Tl-208	Filtered	1.1	1.3	0.41	SMDUP-10-GW041911	Tl-208	Filtered	0.09 U	1.2	0.34
WS-07	SMWS-07-GW041911	Tl-208	Suspended	0.14 U	0.72	0.22	SMDUP-10-GW041911	Tl-208	Suspended	0.39	0.78	0.22
WS-07	SMWS-07-GW041911	Tm-171	Filtered	-190 U	740	220	SMDUP-10-GW041911	Tm-171	Filtered	-70 U	330	98
WS-07	SMWS-07-GW041911	Tm-171	Suspended	20 U	120	35	SMDUP-10-GW041911	Tm-171	Suspended	1 U	120	35
WS-07	SMWS-07-GW041911	U-233/234	Filtered	1.19	0.014	0.071	SMDUP-10-GW041911	U-233/234	Filtered	1.25	0.014	0.074
WS-07	SMWS-07-GW041911	U-233/234	Suspended	-0.003 U	0.022	0.0066	SMDUP-10-GW041911	U-233/234	Suspended	-0.0032 U	0.021	0.0063
WS-07	SMWS-07-GW041911	U-235/236	Filtered	0.052	0.007	0.012	SMDUP-10-GW041911	U-235/236	Filtered	0.059	0.007	0.013
WS-07	SMWS-07-GW041911	U-235/236	Suspended	-0.0021 U	0.018	0.0021	SMDUP-10-GW041911	U-235/236	Suspended	0 U	0.0068	0.002
WS-07	SMWS-07-GW041911	U-238	Filtered	0.958	0.006	0.06	SMDUP-10-GW041911	U-238	Filtered	0.97	0.006	0.061
WS-07	SMWS-07-GW041911	U-238	Suspended	0.0011 U	0.018	0.0057	SMDUP-10-GW041911	U-238	Suspended	0.0101	0.0055	0.0061
OS-3	SOOS-03-GW042111	Ac-227	Filtered	-3.4 U	9.1	2.7	SMDUP-11-GW042111Q	Ac-227	Filtered	-3.7 U	9.5	2.9
OS-3	SOOS-03-GW042111	Ac-227	Suspended	-0.08 U	4.3	1.3	SMDUP-11-GW042111Q	Ac-227	Suspended	-2.3 U	4.7	1.4
OS-3	SOOS-03-GW042111	Ac-228	Filtered	4.4	4.4	1.5	SMDUP-11-GW042111Q	Ac-228	Filtered	3	4.6	1.4
OS-3	SOOS-03-GW042111	Ac-228	Suspended	1.75	2.5	0.79	SMDUP-11-GW042111Q	Ac-228	Suspended	-0.05 U	3	0.8
OS-3	SOOS-03-GW042111	Bi-212	Filtered	0.2 U	9.2	2.6	SMDUP-11-GW042111Q	Bi-212	Filtered	3.5 U	9.8	2.9
OS-3	SOOS-03-GW042111	Bi-212	Suspended	3.8	5.2	1.6	SMDUP-11-GW042111Q	Bi-212	Suspended	2.2 U	5.7	1.7
OS-3	SOOS-03-GW042111	Bi-214	Filtered	0.4 U	3.7	1	SMDUP-11-GW042111Q	Bi-214	Filtered	-0.6 U	3.5	1.9
OS-3	SOOS-03-GW042111	Bi-214	Suspended	1.73	1.6	0.61	SMDUP-11-GW042111Q	Bi-214	Suspended	1.36	1.8	0.74
OS-3	SOOS-03-GW042111	Cd-113m	Filtered	3500 U	17000	5000	SMDUP-11-GW042111Q	Cd-113m	Filtered	4500 U	15000	4600

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
OS-3	SOOS-03-GW042111	Cd-113m	Suspended	1800 U	7700	2300	SMDUP-11-GW042111Q	Cd-113m	Suspended	600 U	7200	2100
OS-3	SOOS-03-GW042111	Co-60	Filtered	0.22 U	1.6	0.46	SMDUP-11-GW042111Q	Co-60	Filtered	0.06 U	1.6	0.45
OS-3	SOOS-03-GW042111	Co-60	Suspended	-0.08 U	0.82	0.23	SMDUP-11-GW042111Q	Co-60	Suspended	0.1 U	0.75	0.22
OS-3	SOOS-03-GW042111	Cs-134	Filtered	-0.33 U	0.87	0.26	SMDUP-11-GW042111Q	Cs-134	Filtered	-0.36 U	1.5	0.45
OS-3	SOOS-03-GW042111	Cs-134	Suspended	-0.008 U	0.73	0.21	SMDUP-11-GW042111Q	Cs-134	Suspended	0.24 U	0.68	0.2
OS-3	SOOS-03-GW042111	Cs-137	Filtered	0.04 U	1.2	0.34	SMDUP-11-GW042111Q	Cs-137	Filtered	-0.09 U	1.4	0.41
OS-3	SOOS-03-GW042111	Cs-137	Suspended	0.04 U	0.71	0.2	SMDUP-11-GW042111Q	Cs-137	Suspended	0.0004 U	0.72	0.21
OS-3	SOOS-03-GW042111	Eu-152	Filtered	-0.1 U	4.2	1.2	SMDUP-11-GW042111Q	Eu-152	Filtered	2.3	3.3	1
OS-3	SOOS-03-GW042111	Eu-152	Suspended	-0.13 U	1.8	0.52	SMDUP-11-GW042111Q	Eu-152	Suspended	0.11 U	1.7	0.51
OS-3	SOOS-03-GW042111	Eu-154	Filtered	-1 U	12	3.4	SMDUP-11-GW042111Q	Eu-154	Filtered	-2.9 U	12	3.6
OS-3	SOOS-03-GW042111	Eu-154	Suspended	-1.1 U	6.8	2	SMDUP-11-GW042111Q	Eu-154	Suspended	-0.08 U	6.4	1.9
OS-3	SOOS-03-GW042111	Eu-155	Filtered	0.54 U	3	0.89	SMDUP-11-GW042111Q	Eu-155	Filtered	-0.6 U	4.9	1.4
OS-3	SOOS-03-GW042111	Eu-155	Suspended	0.15 U	1.4	0.42	SMDUP-11-GW042111Q	Eu-155	Suspended	0.32 U	1.3	0.4
OS-3	SOOS-03-GW042111	gross_alpha	Filtered	0.52	0.37	0.15	SMDUP-11-GW042111Q	gross_alpha	Filtered	1.19	0.37	0.22
OS-3	SOOS-03-GW042111	gross_alpha	Suspended	1.13	1.5	0.51	SMDUP-11-GW042111Q	gross_alpha	Suspended	0.16 U	0.44	0.13
OS-3	SOOS-03-GW042111	gross_beta	Filtered	4.34	2.6	0.94	SMDUP-11-GW042111Q	gross_beta	Filtered	4.48	1.7	0.73
OS-3	SOOS-03-GW042111	gross_beta	Suspended	0.25 U	0.82	0.25	SMDUP-11-GW042111Q	gross_beta	Suspended	0.32 U	0.75	0.23
OS-3	SOOS-03-GW042111	H-3	Total	-24 U	170	50	SMDUP-11-GW042111Q	H-3	Total	37 U	140	42
OS-3	SOOS-03-GW042111	Ho-166m	Filtered	-0.26 U	2.2	0.62	SMDUP-11-GW042111Q	Ho-166m	Filtered	-0.23 U	2.3	0.65
OS-3	SOOS-03-GW042111	Ho-166m	Suspended	-0.02 U	1.2	0.34	SMDUP-11-GW042111Q	Ho-166m	Suspended	0.21 U	1.1	0.31
OS-3	SOOS-03-GW042111	K-40	Filtered	7.1 U	18	4.7	SMDUP-11-GW042111Q	K-40	Filtered	-6 U	20	10

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
OS-3	SOOS-03-GW042111	K-40	Suspended	2.5 U	10	2.4	SMDUP-11-GW042111Q	K-40	Suspended	7.6	12	3.3
OS-3	SOOS-03-GW042111	Na-22	Filtered	0.14 U	1.6	0.45	SMDUP-11-GW042111Q	Na-22	Filtered	0.29 U	1.5	0.43
OS-3	SOOS-03-GW042111	Na-22	Suspended	-0.12 U	0.91	0.26	SMDUP-11-GW042111Q	Na-22	Suspended	-0.05 U	0.66	0.19
OS-3	SOOS-03-GW042111	Nb-94	Filtered	-0.16 U	1.4	0.41	SMDUP-11-GW042111Q	Nb-94	Filtered	0 U	1.2	0.33
OS-3	SOOS-03-GW042111	Nb-94	Suspended	-0.13 U	0.71	0.21	SMDUP-11-GW042111Q	Nb-94	Suspended	0.21 U	0.69	0.2
OS-3	SOOS-03-GW042111	Np-236	Filtered	0.04 U	3.2	0.94	SMDUP-11-GW042111Q	Np-236	Filtered	-0.7 U	3.5	1.1
OS-3	SOOS-03-GW042111	Np-236	Suspended	0.29 U	1.3	0.4	SMDUP-11-GW042111Q	Np-236	Suspended	0.4 U	1.2	0.37
OS-3	SOOS-03-GW042111	Np-239	Filtered	-0.2 U	8.4	2.5	SMDUP-11-GW042111Q	Np-239	Filtered	0.6 U	9.2	2.7
OS-3	SOOS-03-GW042111	Np-239	Suspended	0.7 U	3.9	1.1	SMDUP-11-GW042111Q	Np-239	Suspended	0.4 U	3.9	1.1
OS-3	SOOS-03-GW042111	Pa-231	Filtered	20 U	59	18	SMDUP-11-GW042111Q	Pa-231	Filtered	1 U	63	18
OS-3	SOOS-03-GW042111	Pa-231	Suspended	-0.7 U	26	7.7	SMDUP-11-GW042111Q	Pa-231	Suspended	-7.3 U	26	7.7
OS-3	SOOS-03-GW042111	Pb-212	Filtered	-0.36 U	2.3	0.84	SMDUP-11-GW042111Q	Pb-212	Filtered	0.89 U	2.4	0.94
OS-3	SOOS-03-GW042111	Pb-212	Suspended	0.55 U	1.2	0.4	SMDUP-11-GW042111Q	Pb-212	Suspended	0.41 U	1.1	0.36
OS-3	SOOS-03-GW042111	Pb-214	Filtered	0.82 U	2.9	0.91	SMDUP-11-GW042111Q	Pb-214	Filtered	2.4	2.8	0.88
OS-3	SOOS-03-GW042111	Pb-214	Suspended	0.66 U	1.4	0.51	SMDUP-11-GW042111Q	Pb-214	Suspended	0.48 U	1.6	0.44
OS-3	SOOS-03-GW042111	Sb-125	Filtered	-4.7 U	13	4	SMDUP-11-GW042111Q	Sb-125	Filtered	-0.5 U	15	4.5
OS-3	SOOS-03-GW042111	Sb-125	Suspended	0.4 U	6.1	1.8	SMDUP-11-GW042111Q	Sb-125	Suspended	-0.1 U	5.5	1.6
OS-3	SOOS-03-GW042111	Sn-126	Filtered	-0.32 U	1.5	0.44	SMDUP-11-GW042111Q	Sn-126	Filtered	0.68	1.4	0.42
OS-3	SOOS-03-GW042111	Sn-126	Suspended	0.31 U	0.78	0.23	SMDUP-11-GW042111Q	Sn-126	Suspended	0.27 U	0.86	0.26
OS-3	SOOS-03-GW042111	Sr-90	Filtered	0.009 U	0.1	0.029	SMDUP-11-GW042111Q	Sr-90	Filtered	0.022 U	0.095	0.028
OS-3	SOOS-03-GW042111	Sr-90	Suspended	0.029 U	0.059	0.018	SMDUP-11-GW042111Q	Sr-90	Suspended	-0.028 U	0.067	0.018

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

Well ID	Parent Sample						Field Duplicate					
	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU	Sample Identification	Analyte Name	Reporting Basis	Activity	MDC	TPU
OS-3	SOOS-03-GW042111	Tl-208	Filtered	0.06 U	1.8	0.46	SMDUP-11-GW042111Q	Tl-208	Filtered	-0.5 U	1.8	1.2
OS-3	SOOS-03-GW042111	Tl-208	Suspended	-0.1 U	0.86	0.28	SMDUP-11-GW042111Q	Tl-208	Suspended	-0.17 U	0.9	0.33
OS-3	SOOS-03-GW042111	Tm-171	Filtered	-5 U	260	76	SMDUP-11-GW042111Q	Tm-171	Filtered	-650 L U	710	220
OS-3	SOOS-03-GW042111	Tm-171	Suspended	-49 U	130	40	SMDUP-11-GW042111Q	Tm-171	Suspended	32 U	120	36
OS-3	SOOS-03-GW042111	U-233/234	Filtered	0.271	0.017	0.027	SMDUP-11-GW042111Q	U-233/234	Filtered	0.224	0.013	0.024
OS-3	SOOS-03-GW042111	U-233/234	Suspended	-0.0001 U	0.014	0.0053	SMDUP-11-GW042111Q	U-233/234	Suspended	-0.0022 U	0.014	0.0049
OS-3	SOOS-03-GW042111	U-235/236	Filtered	0 U	0.0068	0.002	SMDUP-11-GW042111Q	U-235/236	Filtered	0.0055	0.017	0.0047
OS-3	SOOS-03-GW042111	U-235/236	Suspended	0 U	0.0069	0.002	SMDUP-11-GW042111Q	U-235/236	Suspended	0.0077	0.007	0.0045
OS-3	SOOS-03-GW042111	U-238	Filtered	0.092	0.005	0.015	SMDUP-11-GW042111Q	U-238	Filtered	0.088	0.005	0.014
OS-3	SOOS-03-GW042111	U-238	Suspended	-0.0055 U	0.014	0.0033	SMDUP-11-GW042111Q	U-238	Suspended	0.0068	0.014	0.0061

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

ID - identification

MDC - minimum detectable concentration

TPU - total propagated uncertainty

J - The analyte was detected at the reported concentration; the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

U - Not considered detected. The associated number is the reported concentration.

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-01-EB081910	Filtered	12 U	140	41	0.017	0.03	0.013	0 U	0.017	0.0023	0.006 U	0.025	0.0089
Source	SMSource-01-EB081910	Filtered	-1 U	140	41	-0.00005 U	0.046	0.012	0 U	0.018	0.0024	-0.0111 U	0.041	0.0068
Rinsate	SMRinsate-01-EB081910	Suspended	-0.2 U	12	3.2	0.024	0.025	0.013	-0.0047 U	0.038	0.0033	0.011	0.025	0.01
Source	SMSource-01-EB081910	Suspended	9.3	12	4.1	-0.0074 U	0.035	0.0076	0.0037 U	0.03	0.0063	0.0035 U	0.029	0.0086
Rinsate	SMRinsate-02-EB082310	Filtered	-9 U	140	40	0.032	0.043	0.017	-0.0047 U	0.038	0.0034	--	--	--
Source	SMSource-02-EB082310	Filtered	-24 U	130	40	-0.00003 U	0.046	0.012	0.018	0.017	0.011	--	--	--
Rinsate	SMRinsate-02-EB082310	Suspended	6.7	13	4.1	0.016	0.036	0.013	0 U	0.018	0.0025	0.008 U	0.036	0.011
Source	SMSource-02-EB082310	Suspended	4.1 U	13	3.7	-0.0086 U	0.029	0.0054	-0.0022 U	0.03	0.0022	-0.0061 U	0.029	0.0054
Rinsate	SMRinsate-03-EB082510	Filtered	63 U	130	40	-0.0069 U	0.038	0.0086	0 U	0.016	0.0022	0.0022 U	0.032	0.009
Source	SMSource-03-EB082510	Filtered	75	130	40	0.01	0.029	0.011	0 U	0.016	0.0022	0.021	0.013	0.012
Rinsate	SMRinsate-03-EB082510	Suspended	-3.5 U	20	4.7	-0.0086 U	0.033	0.0062	-0.0026 U	0.035	0.0026	-0.0005 U	0.033	0.0083
Source	SMSource-03-EB082510	Suspended	-2.6 U	17	4.1	0.0017 U	0.031	0.0092	0 U	0.017	0.0024	0.001 U	0.026	0.0074
Rinsate	SMRinsate-04-EB082510	Filtered	35 U	140	41	0.018 K	0.041	0.013	-0.005 U	0.034	0.0035	0.034	0.041	0.015
Source	SMSource-04-EB082510	Filtered	46 U	140	41	0.0065 U	0.024	0.0065	-0.0054 U	0.036	0.0038	0.0086	0.012	0.0061
Rinsate	SMRinsate-05-EB082710	Filtered	15 U	140	43	-0.004 U	0.043	0.01	0.0068 U	0.018	0.0068	-0.0007 U	0.033	0.0082
Source	SMSource-05-EB082710	Filtered	57 U	130	40	0.024 K	0.015	0.014	0 U	0.019	0.0026	0.032 K	0.015	0.015
Rinsate	SMRinsate-05-EB082710	Suspended	--	--	--	0.03	0.027	0.015	-0.0025 U	0.033	0.0025	0.014 K	0.014	0.01
Source	SMSource-05-EB082710	Suspended	--	--	--	-0.0084 U	0.032	0.006	-0.0049 U	0.04	0.0035	-0.0046 U	0.039	0.0084
Rinsate	SMRinsate-06-EB082710	Filtered	12 U	140	41	--	--	--	--	--	--	--	--	--
Source	SMSource-06-EB082710	Filtered	13 U	130	40	--	--	--	--	--	--	--	--	--

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-06-EB082710	Suspended	--	--	--	0.003 U	0.046	0.013	-0.0007 U	0.04	0.007	0.025 K	0.032	0.014
Source	SMSource-06-EB082710	Suspended	--	--	--	-0.00006 U	0.013	0.0068	0.006 U	0.016	0.006	-0.0024 U	0.013	0.0048
Rinsate	SMRinsate-07-EB082710	Filtered	83	130	41	--	--	--	--	--	--	--	--	--
Source	SMSource-07-EB082710	Filtered	94	130	40	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-07-EB082710	Suspended	--	--	--	0.013	0.025	0.011	0.0016 U	0.038	0.0071	0.0027 U	0.014	0.0071
Source	SMSource-07-EB082710	Suspended	--	--	--	-0.013 U	0.044	0.0085	-0.0046 U	0.037	0.0033	-0.0104 U	0.044	0.0085
Rinsate	SMRinsate-08-EB083010	Filtered	-13 U	180	52	--	--	--	--	--	--	--	--	--
Source	SMSource-08-EB083010	Filtered	-40 U	160	46	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-08-EB083010	Suspended	--	--	--	0.017	0.036	0.013	0.0061 U	0.016	0.0061	0.006 U	0.033	0.01
Source	SMSource-08-EB083010	Suspended	--	--	--	0.017	0.032	0.013	-0.0022 U	0.029	0.0022	0.0049 U	0.023	0.0082
Rinsate	SMRinsate-09-EB083110	Filtered	68	130	39	0.022 K	0.025	0.013	0.0015 U	0.037	0.0068	0.008 U	0.029	0.01
Source	SMSource-09-EB083110	Filtered	78	120	38	0.017 K	0.031	0.013	0 U	0.017	0.0024	0.0044 U	0.031	0.0093
Rinsate	SMRinsate-09-EB083110	Suspended	--	--	--	-0.0127 U	0.042	0.0081	0.0015 U	0.035	0.0066	-0.0055 U	0.042	0.0093
Source	SMSource-09-EB083110	Suspended	--	--	--	-0.0045 U	0.037	0.0089	0.0116	0.016	0.0082	-0.0078 U	0.032	0.0055
Rinsate	SMRinsate-10-EB083110	Filtered	--	--	--	0.024 K	0.026	0.014	0.0064 U	0.017	0.0064	0.008 K	0.014	0.0089
Source	SMSource-10-EB083110	Filtered	--	--	--	0.01 K	0.029	0.011	0 U	0.016	0.0022	0.007 K	0.013	0.0083
Rinsate	SMRinsate-10-EB083110	Suspended	--	--	--	-0.00192 U	0.039	0.01	-0.0046 U	0.037	0.0032	-0.0073 U	0.033	0.006
Source	SMSource-10-EB083110	Suspended	--	--	--	-0.004 U	0.029	0.0071	0 U	0.016	0.0022	-0.0026 U	0.013	0.0047
Rinsate	SMRinsate-11-EB083110	Filtered	--	--	--	0.01 U	0.034	0.012	0.0079 U	0.038	0.0095	-0.0023 U	0.014	0.005
Source	SMSource-11-EB083110	Filtered	--	--	--	0.022 K	0.031	0.014	0.0064 U	0.017	0.0064	-0.0042 U	0.026	0.0055

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-11-EB083110	Suspended	--	--	--	0.012 U	0.046	0.014	0.0051 U	0.039	0.009	0.025	0.032	0.014
Source	SMSource-11-EB083110	Suspended	--	--	--	0.014	0.013	0.011	0 U	0.016	0.0023	-0.0025 U	0.013	0.0049
Rinsate	SMRinsate-12-EB090210	Filtered	58 U	130	39	0.01	0.026	0.01	0.0098	0.013	0.0069	0.03	0.022	0.013
Source	SMSource-12-EB090210	Filtered	33 U	130	39	0.014	0.028	0.011	0 U	0.031	0.0055	0.0109	0.0098	0.0081
Rinsate	SMRinsate-12-EB090210	Suspended	--	--	--	0.004 U	0.04	0.011	-0.0048 U	0.032	0.0034	-0.0016 U	0.029	0.0075
Source	SMSource-12-EB090210	Suspended	--	--	--	-0.0098 U	0.029	0.0059	0.0021 U	0.024	0.0048	0.003 U	0.023	0.0073
Rinsate	SMRinsate-13-EB090110	Filtered	19 U	140	42	-0.0017 U	0.034	0.0073	0.0063 U	0.023	0.0063	0.0134	0.028	0.0089
Source	SMSource-13-EB090110	Filtered	14 U	140	42	-0.0038 U	0.04	0.0084	0.014	0.013	0.0081	0.0037 U	0.025	0.0059

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

-- result was rejected during data valadation and was not used in the Z-score analysis.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

U - Not considered detected. The associated number is the reported concentration.

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-01-EB031711	Filtered	--	--	--	0.0053	0.012	0.0057	0 U	0.0062	0.0018	0.0037 U	0.0049	0.0045
Source	SMSource-01-EB031711	Filtered	--	--	--	-0.0028 U	0.018	0.0054	0 U	0.0064	0.0019	0.0008 U	0.013	0.0045
Rinsate	SMRinsate-01-EB031711	Suspended	--	--	--	-0.0038 U	0.014	0.0044	0.0043 U	0.0059	0.0031	0.005	0.0047	0.0046
Source	SMSource-01-EB031711	Suspended	--	--	--	0.0156	0.016	0.0075	0 U	0.0058	0.0017	0.0118	0.0046	0.0057
Rinsate	SMRinsate-01-EB031711	Total	51 U	140	42	--	--	--	--	--	--	--	--	--
Source	SMSource-01-EB031711	Total	82	140	42	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-02-EB031711	Filtered	--	--	--	0.0038 U	0.012	0.0055	0.0046 U	0.0062	0.0033	0.0077	0.005	0.0052
Source	SMSource-02-EB031711	Filtered	--	--	--	0.0069	0.005	0.0055	0.0023 U	0.0062	0.0023	0.0002 U	0.0049	0.0037
Rinsate	SMRinsate-02-EB031711	Suspended	--	--	--	0.0035 U	0.012	0.0053	0.0023 U	0.0061	0.0023	0.011	0.0049	0.0057
Source	SMSource-02-EB031711	Suspended	--	--	--	0.0066 U	0.02	0.007	0.0026 U	0.015	0.0035	-0.0053 U	0.016	0.0039
Rinsate	SMRinsate-03-EB031611	Filtered	--	--	--	--	--	--	0.0023 U	0.0062	0.0023	--	--	--
Source	SMSource-03-EB031611	Filtered	--	--	--	--	--	--	0 U	0.0061	0.0018	--	--	--
Rinsate	SMRinsate-03-EB031611	Suspended	--	--	--	--	--	--	0.0087	0.0059	0.0043	0.0101	0.0047	0.0055
Source	SMSource-03-EB031611	Suspended	--	--	--	--	--	--	0.0023 U	0.0061	0.0023	0.0036 U	0.017	0.0057
Rinsate	SMRinsate-03-EB031611	Total	66 U	140	42	--	--	--	--	--	--	--	--	--
Source	SMSource-03-EB031611	Total	69	130	40	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-04-EB031711	Filtered	--	--	--	0.0061	0.013	0.006	0.0024 U	0.0065	0.0024	0.0005 U	0.0052	0.0039
Source	SMSource-04-EB031711	Filtered	--	--	--	0.0085	0.0049	0.0058	0.0023 U	0.0062	0.0023	0.0073	0.0049	0.0052
Rinsate	SMRinsate-04-EB031711	Suspended	--	--	--	0.0025 U	0.011	0.0049	0.0008 U	0.017	0.0038	0.0049	0.011	0.0049
Source	SMSource-04-EB031711	Suspended	--	--	--	-0.001 U	0.0047	0.0039	0.0022 U	0.0059	0.0022	0.0001 U	0.012	0.0041

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-04-EB031711	Total	59 U	140	42	--	--	--	--	--	--	--	--	--
Source	SMSource-04-EB031711	Total	14 U	140	41	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-05-EB031811	Filtered	--	--	--	0.0064	0.0055	0.0057	0 U	0.0068	0.002	-0.0028 U	0.013	0.0038
Source	SMSource-05-EB031811	Filtered	--	--	--	0.0023 U	0.02	0.0066	0.0025 U	0.0067	0.0025	-0.0052 U	0.018	0.0043
Rinsate	SMRinsate-05-EB031811	Suspended	--	--	--	-0.0051 U	0.017	0.0046	0.0043 U	0.0058	0.0031	-0.0019 U	0.0047	0.003
Source	SMSource-05-EB031811	Suspended	--	--	--	-0.0009 U	0.0047	0.0039	0.0044 U	0.0059	0.0031	0.0016 U	0.0047	0.0039
Rinsate	SMRinsate-06-EB031811	Filtered	--	--	--	0.0008 U	0.0057	0.0047	--	--	--	--	--	--
Source	SMSource-06-EB031811	Filtered	--	--	--	0.0171	0.021	0.0086	0.0022 U	0.006	0.0022	0.0017 U	0.0048	0.004
Rinsate	SMRinsate-06-EB031811	Total	16 U	160	46	--	--	--	--	--	--	--	--	--
Source	SMSource-06-EB031811	Total	58 U	160	48	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-07-EB031811	Filtered	--	--	--	-0.0011 U	0.014	0.0049	0 U	0.0069	0.002	0.003 U	0.0056	0.0046
Source	SMSource-07-EB031811	Filtered	--	--	--	-0.003 U	0.014	0.0045	0.0078	0.007	0.0045	-0.0009 U	0.0056	0.0036
Rinsate	SMRinsate-07-EB031811	Suspended	--	--	--	-0.0008 U	0.0048	0.004	0.0044 U	0.006	0.0031	-0.00007 U	0.0048	0.0035
Source	SMSource-07-EB031811	Suspended	--	--	--	0.0064	0.012	0.0057	0.0004 U	0.014	0.0028	0.0033 U	0.0047	0.0042
Rinsate	SMRinsate-07-EB031811	Total	114	150	48	--	--	--	--	--	--	--	--	--
Source	SMSource-07-EB031811	Total	23 U	150	45	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-08-EB031811	Filtered	--	--	--	0.0087	0.016	0.0069	0 U	0.0066	0.002	0.0009 U	0.013	0.0047
Source	SMSource-08-EB031811	Filtered	--	--	--	0.0105	0.02	0.0076	0.0023 U	0.0063	0.0023	0.0003 U	0.005	0.0037
Rinsate	SMRinsate-08-EB031811	Suspended	--	--	--	0.0052	0.014	0.0059	0.0043 U	0.0059	0.0031	0.0017 U	0.0047	0.0039
Source	SMSource-08-EB031811	Suspended	--	--	--	0.0069 U	0.023	0.0078	0.0024 U	0.0066	0.0024	-0.007 U	0.017	0.0037

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-08-EB031811	Total	62 U	150	45	--	--	--	--	--	--	--	--	--
Source	SMSource-08-EB031811	Total	39 U	160	47	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-11-EB032311	Total	6 U	140	41	-0.0004 U	0.019	0.0061	0.0034 U	0.019	0.0046	-0.0009 U	0.0061	0.0039
Source	SMSource-11-EB032311	Total	22 U	130	39	0.006 U	0.022	0.0079	0.0035 U	0.019	0.0047	-0.0049 U	0.023	0.0057
Rinsate	SMRinsate-12-EB032311	Total	45 U	140	41	-0.0012 U	0.014	0.0052	0 U	0.0073	0.0022	-0.0033 U	0.0059	0.0031
Source	SMSource-12-EB032311	Total	-32 U	140	40	-0.009 U	0.029	0.0072	0 U	0.0079	0.0023	0.0068 U	0.023	0.0077
Rinsate	SMRinsate-13-EB032411	Total	27 U	140	43	0.0183	0.019	0.0091	0 U	0.0078	0.0023	0.0177	0.0063	0.0077
Source	SMSource-13-EB032411	Total	22 U	140	43	0.0024 U	0.0057	0.0052	0.0079	0.0071	0.0046	0.0156	0.0057	0.007
Rinsate	SMRinsate-16-EB032511	Filtered	--	--	--	0.038	0.022	0.011	0.0105	0.017	0.006	0.031	0.021	0.01
Source	SMSource-16-EB032511	Filtered	--	--	--	0.034	0.02	0.01	0.0072	0.0065	0.0042	0.0235	0.02	0.009
Rinsate	SMRinsate-16-EB032511	Suspended	--	--	--	0.0052	0.014	0.0061	0.0026 U	0.007	0.0026	0.0011 U	0.0056	0.0041
Source	SMSource-16-EB032511	Suspended	--	--	--	0.0139	0.016	0.0074	0 U	0.0064	0.0019	0.0042	0.0051	0.0046
Rinsate	SMRinsate-16-EB032511	Total	19 U	120	34	--	--	--	--	--	--	--	--	--
Source	SMSource-16-EB032511	Total	74	120	36	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-17-EB032511	Filtered	--	--	--	0.046	0.022	0.012	0.008	0.017	0.0054	0.021	0.022	0.0092
Source	SMSource-17-EB032511	Filtered	--	--	--	0.0106	0.0052	0.0064	0 U	0.0064	0.0019	0.0079	0.013	0.0059
Rinsate	SMRinsate-17-EB032511	Suspended	--	--	--	-0.0072 U	0.023	0.0057	-0.0021 U	0.018	0.0021	-0.0009 U	0.019	0.0054
Source	SMSource-17-EB032511	Suspended	--	--	--	0.0071	0.005	0.0056	0.0023 U	0.0063	0.0023	-0.0035 U	0.005	0.0026
Rinsate	SMRinsate-18-EB032511	Filtered	--	--	--	0.143	0.024	0.02	0.0028 U	0.0077	0.0028	0.042	0.02	0.012
Source	SMSource-18-EB032511	Filtered	--	--	--	0.024	0.024	0.01	0 U	0.0067	0.002	0.0141	0.0018	0.0077

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-18-EB032511	Suspended	--	--	--	0.0249	0.02	0.0095	0 U	0.0069	0.002	0.0095	0.02	0.0074
Source	SMSource-18-EB032511	Suspended	--	--	--	0.0175	0.0062	0.008	0 U	0.0077	0.0023	0.0068	0.015	0.0063
Rinsate	SMRinsate-18-EB032511	Total	52 U	120	35	--	--	--	--	--	--	--	--	--
Source	SMSource-18-EB032511	Total	61	120	35	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-19-EB032811	Total	2 U	160	47	-0.0012 U	0.015	0.0052	0.0054 U	0.0073	0.0038	-0.0029 U	0.014	0.0042
Source	SMSource-19-EB032811	Total	59 U	160	47	0.0081	0.0062	0.0065	0.0029 U	0.0078	0.0029	0.0066	0.015	0.0064
Rinsate	SMRinsate-20-EB032811	Total	-23 U	160	46	0.0042 U	0.016	0.0065	0.0029 U	0.0079	0.0029	0.0008 U	0.022	0.0066
Source	SMSource-20-EB032811	Total	-19 U	160	47	0.0087	0.015	0.0072	-0.0023 U	0.019	0.0023	0.0132	0.0063	0.007
Rinsate	SMRinsate-21-EB032811	Total	-0.5 U	160	46	0.0072	0.0059	0.0062	0 U	0.0074	0.0022	0.0015 U	0.015	0.0052
Source	SMSource-21-EB032811	Total	27 U	150	44	0.0068	0.0066	0.0065	0 U	0.0082	0.0024	0.007	0.0066	0.006
Rinsate	SMRinsate-22-EB032911	Filtered	--	--	--	0.0055	0.015	0.0065	-0.0022 U	0.018	0.0022	0.0055	0.006	0.0054
Source	SMSource-22-EB032911	Filtered	--	--	--	0.101	0.022	0.017	0.0027 U	0.0074	0.0027	0.025	0.019	0.0095
Rinsate	SMRinsate-22-EB032911	Suspended	--	--	--	0.0168	0.011	0.0068	0.0019 U	0.0053	0.0019	0.0115	0.011	0.0058
Source	SMSource-22-EB032911	Suspended	--	--	--	0.052	0.018	0.011	0.0021 U	0.015	0.0036	0.0162	0.02	0.0079
Rinsate	SMRinsate-22-EB032911	Total	28 U	130	39	--	--	--	--	--	--	--	--	--
Source	SMSource-22-EB032911	Total	36 U	130	38	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-23-EB032911	Filtered	--	--	--	0.0183	0.019	0.0091	0.0058 U	0.0078	0.0041	0.0113	0.015	0.0072
Source	SMSource-23-EB032911	Filtered	--	--	--	0.07	0.032	0.018	0.025	0.011	0.01	0.046	0.03	0.015
Rinsate	SMRinsate-23-EB032911	Suspended	--	--	--	0.0122	0.016	0.0069	0.0021 U	0.0057	0.0021	0.0163	0.012	0.0067
Source	SMSource-23-EB032911	Suspended	--	--	--	0.075	0.018	0.013	0.0019 U	0.0052	0.0019	0.0234	0.015	0.0076

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

Sample Type	Sample Identification	Reporting Basis	H-3			U-233/234			U-235/236			U-238		
			Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SMRinsate-23-EB032911	Total	16 U	120	37	--	--	--	--	--	--	--	--	--
Source	SMSource-23-EB032911	Total	4 U	130	38	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-24-EB032911	Filtered	--	--	--	0.116	0.021	0.018	0.0005 U	0.018	0.0034	0.0132	0.027	0.0094
Source	SMSource-24-EB032911	Filtered	--	--	--	0.0232	0.021	0.0097	0.0084	0.017	0.0057	0.028	0.019	0.0096
Rinsate	SMRinsate-24-EB032911	Suspended	--	--	--	0.0116	0.012	0.0063	0.002 U	0.0054	0.002	0.0059	0.012	0.0051
Source	SMSource-24-EB032911	Suspended	--	--	--	0.0003 U	0.018	0.0059	0 U	0.0066	0.0025	0.0067	0.0053	0.0052
Rinsate	SMRinsate-24-EB032911	Total	28 U	130	38	--	--	--	--	--	--	--	--	--
Source	SMSource-24-EB032911	Total	31 U	130	38	--	--	--	--	--	--	--	--	--
Rinsate	SMRinsate-25-EB033011	Total	23 U	130	39	0.0087	0.014	0.0068	0.0005 U	0.017	0.0033	0.001 U	0.014	0.0049
Source	SMSource-25-EB033011	Total	-23 U	140	39	0.0078	0.018	0.0072	0.0027 U	0.0073	0.0027	0.0014 U	0.014	0.0051
Rinsate	SMRinsate-26-EB033011	Total	0.5 U	130	39	-0.001 U	0.019	0.0061	0 U	0.0068	0.002	-0.0016 U	0.0055	0.0035
Source	SMSource-26-EB033011	Total	-59 U	130	37	-0.0016 U	0.014	0.005	0.0052 U	0.007	0.0037	-0.0023 U	0.02	0.0055

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

-- analytical result for this reporting basis was not used in the Z-score analysis.

MDC - minimum detectable concentration

TPU - Total propagated uncertainty

U - Not considered detected. The associated number is the reported concentration.

Table 5.1
Radionuclide Activity Exceeding Maximum Concentration Levels
Groundwater Sampling

Well Identification	Field Sample Identification	Analyte Name	Reporting Basis[1]	Phase I Activity	Phase II Activity	MCL
PZ-105	No Phase I sample/ SMPZ-105-GW032311	adjusted gross alpha	Filtered	NS	-1.41	15
		adjusted gross alpha	Total	NS	18.7	15
PZ-116	No Phase I sample/ SMPZ116GW032911	U-233/U-234	Filtered	NS	23.9	20
		U-233/U-234	Total	NS	24	20
		U-238	Filtered	NS	22.9	20
		U-238	Total	NS	22.9	20
PZ-124	No Phase I sample/ SMPZ-124-GW033011	U-233/U-234	Filtered	NS	36.7	20
		U-233/U-234	Total	NS	36.7	20
		U-238	Filtered	NS	35.6	20
		U-238	Total	NS	35.6	20
RD-86	SMRD-086-GW081910/ SMRD-86-GW032911	gross beta	Filtered	206	5.18	50
		gross beta	Total	206	6.55	50
RD-88	SMRD-088-GW090210/ SMRD-88-GW032911	H-3	Filtered / Total	44,800	4040	20,000
RD-90	SMRD-090-GW090210/ SMRD90GW032911	H-3	Filtered / Total	41,000	54,900	20,000
RD-95	SMRD-095-GW090210/ SMRD-95-GW031711	H-3	Filtered / Total	59,700	49,900	20,000
RD-98	SMRD-098-GW090210/ SMRD-98-GW041911	Sr-90	Filtered	7	183	8
		Sr-90	Total	7.17	183	8
RS-11	No Phase I sample/ SMRS11GW033111	U-233/U-234	Filtered	NS	30.9	20
		U-233/U-234	Total	NS	30.9	20
		U-238	Filtered	NS	28.1	20
		U-238	Total	NS	28.1	20
RS-23	No Phase I sample/ SMRS-23-GW032111	adjusted gross alpha	Filtered	NS	72.2	15
		adjusted gross alpha	Total	NS	213.7	15
		gross beta	Total	NS	313	50
RS-27	No Phase I sample/ SMRS-27-GW033011	adjusted gross alpha	Filtered	NS	3.93	15
		adjusted gross alpha	Total	NS	37.3	15
		gross beta	Total	NS	93.5	50
OS-10	No Phase I sample/ SOOS-10-GW041811	adjusted gross alpha	Filtered	NS	0.758	15
		adjusted gross alpha	Total	NS	129.1	15
		gross beta	Total	NS	145	50

Notes:

[1] The tritium concentrations reported for Phase I samples are filtered results. The tritium concentrations for Phase II are total results, the sample for the tritium analysis was not filtered.

Adjusted gross alpha - The gross alpha activity has been adjustd by subtracting the urainium activity for each corresponding filtered and total result.

Reporting units in picocuries per liter.

H-3 - tritium NS - not sampled

MCL - maximum contaminant level Sr - strontium U - uranium

Table 5.2
Anthropogenic Radionuclides-Filtered Analysis, Phase I Groundwater Sampling

Well Identification	Sample Identification	Analyte Name	Activity	MDC	TPU	Critical Value
Shallow Wells						
ES-31	SMES-031-GW082410	H-3	88	130	40	64
ES-31	SMES-031-GW082410	Nb-94	0.53	1	0.31	0.48
PZ-052	SMPZ-052-GW083010	Sn-126	0.7	1.3	0.41	0.62
PZ-056	SMPZ-056-GW082410	H-3	75	130	40	64
PZ-098	SMPZ-098-GW083110	Nb-94	0.58	0.88	0.27	0.41
PZ-100	SMPZ-100-GW083010	Tm-171	167	320	98	160
PZ-105	SMPZ-105-GW082710	Sn-126	0.81	1.6	0.5	0.77
PZ-109	SMPZ-109-GW082510	Cd-113m	7500	11000	3400	5200
RS-18	SMRS-18-GW082310	Sr-90	0.06	0.053	0.017	0.029
Deep Wells						
RD-07	SMRD-07-GW090110	Ba-137m	0.58	1.2	0.37	0.56
RD-07	SMRD-07-GW090110	Cs-137	0.61	1.3	0.39	0.6
RD-13	SMRD-013-GW082410	Cm-245/246	0.021	0.034	0.011	0.014
RD-17	SMRD-17-GW082510	Pu-238	0.054	0.064	0.021	0.03
RD-18	SMRD-18-GW081910	Sn-126	0.5	1	0.31	0.49
RD-19	SMRD-019-GW081910	C-14	1.18	2.2	0.69	1.1
RD-24	SMRD-24-GW083110	H-3	79	120	38	61
RD-24	SMRD-24-GW083110	Nb-94	0.64	1.1	0.35	0.52
RD-29	SMRD-29-GW083110	Am-241	0.022	0.05	0.015	0.02
RD-29	SMRD-29-GW083110	Cm-245/246	0.0191	0.02	0.0085	0.0062
RD-29	SMRD-29-GW083110	Pu-239/240	0.0086	0.027	0.0078	0.0076
RD-29	SMRD-29-GW083110	Sr-90	0.109	0.11	0.035	0.063
RD-33A	SMRD-33A-GW081810	Co-60	0.66	1.4	0.43	0.66
RD-33A	SMRD-33A-GW081810	Tm-171	230	450	140	220
RD-33B	SMRD-33B-GW090210	Am-241	0.023	0.047	0.015	0.02
RD-33B	SMRD-33B-GW090210	Cm-245/246	0.028	0.023	0.01	0.008
RD-33C	SMRD-033C-GW090310	Cs-134	0.71 SK	1.3	0.4	0.6
RD-34A	SMRD-034A-GW082010	H-3	966	130	65	66
RD-34B	SMRD-034B-GW082010	Cd-113m	7600	15000	4600	7300
RD-34B	SMRD-034B-GW082010	H-3	191	140	44	67
RD-54B	SMRD-054B-GW083110	Np-239	5.2	7	2.2	3.4
RD-54B	SMRD-054B-GW083110	Sr-90	0.097	0.16	0.051	0.097
RD-56B	SMRD-56B-GW083110	Cm-245/246	0.0132	0.024	0.0078	0.0083
RD-57	SMRD-57-GW081910	Ba-137m	0.66	1.1	0.35	0.51
RD-57	SMRD-57-GW081910	Cs-137	0.7	1.2	0.37	0.54

Table 5.2
Anthropogenic Radionuclides-Filtered Analysis, Phase I Groundwater Sampling

Well Identification	Sample Identification	Analyte Name	Activity	MDC	TPU	Critical Value
Deep Wells (Continued)						
RD-63	SMRD-63-GW090210	Ba-137m	0.8	1.3	0.4	0.59
RD-63	SMRD-63-GW090210	Cs-137	0.84	1.3	0.42	0.62
RD-63	SMRD-63-GW090210	Sn-126	0.64	1.4	0.42	0.64
RD-64	SMRD-064-GW091010	H-3	78	130	41	65
RD-64	SMRD-064-GW091010	Nb-94	0.69	1.2	0.37	0.56
RD-87	SMRD-087-GW090210	H-3	7630	130	350	60
RD-88	SMRD-088-GW090210	H-3	44800	200	2000	70
RD-88	SMRD-088-GW090210	Sb-125	7.3 SK	12	3.7	5.8
RD-88	SMRD-088-GW090210	Te-125m	1.7 SK	2.8	0.85	1.3
RD-90	SMRD-090-GW090210	H-3	41000	100	1800	70
RD-90	SMRD-090-GW090210	Sn-126	0.88	1.4	0.45	0.66
RD-91	SMRD-091-GW082510	H-3	75	130	39	63
RD-93	SMRD-093-GW090210	H-3	8200	150	370	70
RD-93	SMRD-093-GW090210	Np-236	1.23 SK	2.4	0.73	1.2
RD-94	SMRD-94-GW083110	H-3	9550 B	130	430	60
RD-94	SMRD-94-GW083110	Nb-94	0.42	0.88	0.27	0.42
RD-95	SMRD-095-GW090210	H-3	59700	200	2700	70
RD-96	SMRD-96-GW081910	Sn-126	0.93	1.4	0.44	0.65
RD-98	SMRD-098-GW090210	Am-241	0.023	0.033	0.013	0.011
RD-98	SMRD-098-GW090210	C-14	1.11	2.2	0.69	1.1
RD-98	SMRD-098-GW090210	Cm-245/246	0.0172	0.0077	0.007	0.0058
RD-98	SMRD-098-GW090210	I-129	0.29	0.44	0.14	0.22
RD-98	SMRD-098-GW090210	Pu-242	0.0139	0.027	0.0094	0.0075
RD-98	SMRD-098-GW090210	Sr-90	7	0.23	0.36	0.14
WS-07	SMWS-07-GW082710	Ba-137m	1.43	1.3	0.43	0.62
WS-07	SMWS-07-GW082710	Cs-137	1.51	1.4	0.46	0.66
WS-07	SMWS-07-GW082710	Eu-152	2.07	3.2	0.99	1.5

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

Shaded cells represent activity greater than the MDC.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis, Phase II Groundwater Sampling

Well Identification	Sample Identification	Analyte Name[1]	Activity	MDC	TPU	Critical Value
Shallow Wells						
ES-31	SMES-31-GW032511	H-3	69	120	36	57
PZ-005	SMPZ-005-GW032311	Ba-137m	0.67	1.1	0.33	0.51
PZ-005	SMPZ-005-GW032311	Cs-137	0.71	1.1	0.35	0.53
PZ-005	SMPZ-005-GW032311	Tm-171	180	340	100	170
PZ-041	SMPZ-041-GW032511	H-3	105	120	37	25
PZ-052	SMPZ-052-GW033111	Sn-126	0.56	1	0.32	0.49
PZ-052	SMPZ-052-GW033111	Sr-90	0.068	0.11	0.034	0.062
PZ-098	SMPZ-098-GW032911	Tm-171	166	320	97	150
PZ-101	SMPZ-101-GW032811	Eu-152	1.42	2.8	0.86	1.3
PZ-101	SMPZ-101-GW032811	Tm-171	170	350	110	170
PZ-102	SMPZ-102-GW033011	Eu-154	4.4	8.5	2.6	4
PZ-102	SMPZ-102-GW033011	Tm-171	210	340	100	160
PZ-105	SMPZ-105-GW032311	Sn-126	0.62	0.92	0.29	0.43
PZ-105	SMPZ-105-GW032311	Sr-90	0.041	0.049	0.015	0.026
PZ-108	SMPZ-108-GW031711	Co-60	0.63	1.4	0.43	0.63
PZ-109	SMPZ-109-GW032411	Sr-90	0.042	0.071	0.022	0.04
PZ-111	SMPZ-111-GW033111	Ho-166m	0.74 SK	1.2	0.37	0.55
PZ-112	SMPZ-112-GW031811	H-3	82	160	50	79
PZ-114	SMPZ-114-GW032811	Tm-171	650	490	190	240
PZ-116	SMPZ-116-GW032911	H-3	119	180	54	86
PZ-116	SMPZ-116-GW032911	Sr-90	0.077	0.12	0.038	0.066
PZ-121	SMPZ-121-GW031611	Ag-108	0.06	0.08	0.025	0.037
PZ-122	SMPZ-122-GW032511	Sr-90	0.105	0.14	0.044	0.079
PZ-122	SMPZ-122-GW032511	Tm-171	177	320	99	160
PZ-124	SMPZ-124-GW033011	Eu-154	4.2	7.5	2.3	3.5
PZ-124	SMPZ-124-GW033011	Sn-126	0.54	1.1	0.33	0.51
PZ-124	SMPZ-124-GW033011	Tm-171	190	340	100	170
PZ-150	SMPZ-150-GW032211	Sr-90	0.043	0.057	0.018	0.032
PZ-151	SMPZ-151-GW032811	Ho-166m	1.45	2.7	0.82	1.3
PZ-161	SMPZ-161-GW032411	Nb-94	0.67 K,S	0.69	0.23	0.32
PZ-161	SMPZ-161-GW032411	Sn-126	0.79	1.1	0.34	0.51

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analyte Name[1]	Activity	MDC	TPU	Critical Value
Shallow Wells (Continued)						
RS-27	SMRS-27-GW033011	Sr-90	0.056	0.099	0.03	0.056
RS-27	SMRS-27-GW033011	Tm-171	200	360	110	180
Deep Wells						
OS-10	SOOS-10-GW041811	Sr-90	0.079	0.13	0.039	0.072
RD-07	SMRD-7-GW040411	Co-60	0.51	1.1	0.33	0.5
RD-07	SMRD-7-GW040411	Sr-90	0.057	0.097	0.03	0.055
RD-13	SMRD-13-GW032911	Am-241	0.009	0.017	0.0055	0.0052
RD-13	SMRD-13-GW032911	Pu-239/240	0.0068	0.0061	0.0039	0.0053
RD-14	SMRD-14-GW032111	Sr-90	0.086	0.07	0.023	0.04
RD-15	SMRD-15-GW032911	Cs-134	0.46 SK	0.91	0.28	0.43
RD-15	SMRD-15-GW032911	Sn-126	0.56	1.1	0.33	0.51
RD-15	SMRD-15-GW032911	Tm-171	220	340	100	160
RD-17	SMRD-17-GW032511	Ho-166m	1.4 SK	2	0.79	0.94
RD-17	SMRD-17-GW032511	Tm-171	330	330	120	160
RD-19	SMRD-19-GW031711	Am-241	0.0257	0.022	0.0091	0.0077
RD-19	SMRD-19-GW031711	Cm-243/244	0.0275	0.025	0.0098	0.0092
RD-19	SMRD-19-GW031711	Cm-245/246	0.0218 J	0.016	0.0078	0.0049
RD-19	SMRD-19-GW031711	Sr-90	0.112	0.16	0.049	0.088
RD-20	SMRD-20-GW032211	Nb-94	0.46	0.97	0.29	0.46
RD-21	SMRD-21-GW040111	Sn-126	0.44	0.93	0.28	0.44
RD-21	SMRD-21-GW040111	Sr-90	0.097	0.11	0.035	0.063
RD-22	SMRD-22-GW033111	Ho-166m	0.72 SK	1.4	0.44	0.67
RD-24	SMRD-24-GW032411	Sr-90	0.12	0.075	0.03	0.042
RD-27	SMRD-27-GW031711	Ba-137m	0.77	1.2	0.38	0.57
RD-27	SMRD-27-GW031711	Co-60	0.009	1.5	0.42	0
RD-27	SMRD-27-GW031711	Cs-137	0.82	1.3	0.4	0.6
RD-29	SMRD-29-GW032511	Am-241	0.0203	0.017	0.0075	0.0053
RD-29	SMRD-29-GW032511	Cm-245/246	0.0166 J	0.0056	0.0059	0.0048
RD-29	SMRD-29-GW032511	Pu-238	0.0152	0.028	0.0091	0.01
RD-29	SMRD-29-GW032511	Sr-90	0.094	0.14	0.042	0.077
RD-33B	SMRD-33B-GW032211	Am-241	0.0159	0.017	0.0068	0.0053

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analyte Name[1]	Activity	MDC	TPU	Critical Value
Deep Wells (Continued)						
RD-33B	SMRD-33B-GW032211	Cm-245/246	0.0092 J	0.0062	0.0046	0.0054
RD-33B	SMRD-33B-GW032211	Pu-238	0.0106	0.02	0.0064	0.007
RD-33B	SMRD-33B-GW032211	Tm-171	410	320	130	160
RD-34A	SMRD34AGW032311	H-3	342	89	36	43
RD-34A	SMRD34AGW032311	Sr-90	0.163	0.11	0.036	0.054
RD-34B	SMRD-34B-GW031811	H-3	187	150	50	75
RD-34B	SMRD-34B-GW031811	Sn-126	0.99	1.4	0.44	0.65
RD-34C	SMRD-34C-GW032211	H-3	132	150	48	74
RD-56B	SMRD-56B-GW042011	Cm-243/244	0.0116	0.018	0.0061	0.0064
RD-56B	SMRD-56B-GW042011	Cm-245/246	0.01 J	0.0054	0.0045	0.0047
RD-57	SMRD-57-GW033111	Tm-171	220	340	100	160
RD-59A	SORD-59A-GW041811	Cd-113m	9700	14000	4500	6900
RD-59A	SORD-59A-GW041811	H-3	110	150	46	73
RD-59B	SORD-59B-GW041811	Sn-126	0.74	1.2	0.38	0.58
RD-59B	SORD-59B-GW041811	Tm-171	170	340	100	170
RD-63	SMRD-63-GW032311	Ba-133	6.6	9.9	3.1	4.8
RD-63	SMRD-63-GW032311	Sr-90	0.068	0.12	0.036	0.06
RD-64	SMRD-64-GW040411	H-3	123	120	39	59
RD-85	SMRD-85-GW031711	Ba-137m	0.7	1.4	0.43	0.67
RD-85	SMRD-85-GW031711	Cs-137	0.73	1.5	0.46	0.7
RD-85	SMRD-85-GW031711	Nb-94	0.5	1.1	0.33	0.49
RD-86	SMRD-86-GW032911	Cm-245/246	0.015 J	0.032	0.011	0.01
RD-86	SMRD-86-GW032911	Cs-134	0.71 SK	1.3	0.38	0.59
RD-86	SMRD-86-GW032911	Pu-238	0.0192	0.018	0.0072	0.0063
RD-87	SMRD-87-GW031811	H-3	5600 B	160	270	80
RD-88	SMRD-88-GW032911	H-3	4040	130	200	60
RD-90	SMRD-90-GW032911	H-3	54900	100	2500	70
RD-91	SMRD-91-GW033011	Nb-94	0.5	0.96	0.29	0.45
RD-92	SMRD-92-GW032211	Eu-154	4	6.3	2	2.9
RD-93	SMRD-93-GW031711	H-3	9130	210	430	100
RD-94	SMRD-94-GW032811	Ba-137m	0.5	1	0.31	0.48

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis, Phase II Groundwater Sampling

Well Identification	Sample Identification	Analyte Name[1]	Activity	MDC	TPU	Critical Value
Deep Wells (Continued)						
RD-94	SMRD-94-GW032811	Cs-137	0.53	1.1	0.33	0.51
RD-94	SMRD-94-GW032811	H-3	5000	170	250	80
RD-95	SMRD-95-GW031711	Ba-133	5.5	11	3.3	5.3
RD-95	SMRD-95-GW031711	H-3	49900	200	2200	90
RD-97	SMRD-97-GW033011	Am-241	0.0119	0.018	0.0063	0.0065
RD-97	SMRD-97-GW033011	Cm-245/246	0.0099 J	0.019	0.0062	0.0066
RD-98	SMRD-98-GW041911	Cm-245/246	0.009 J	0.0061	0.0045	0.0052
RD-98	SMRD-98-GW041911	Sr-90	183	0.3	7.7	0.2
RD-98	SMRD-98-GW041911	Tm-171	300	360	110	170

Notes:

[1] The Phase II tritium results are "total' results, the sample for the tritium analysis was not filtered.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

J - The analyte was detected at the reported concentration; the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

FIGURES

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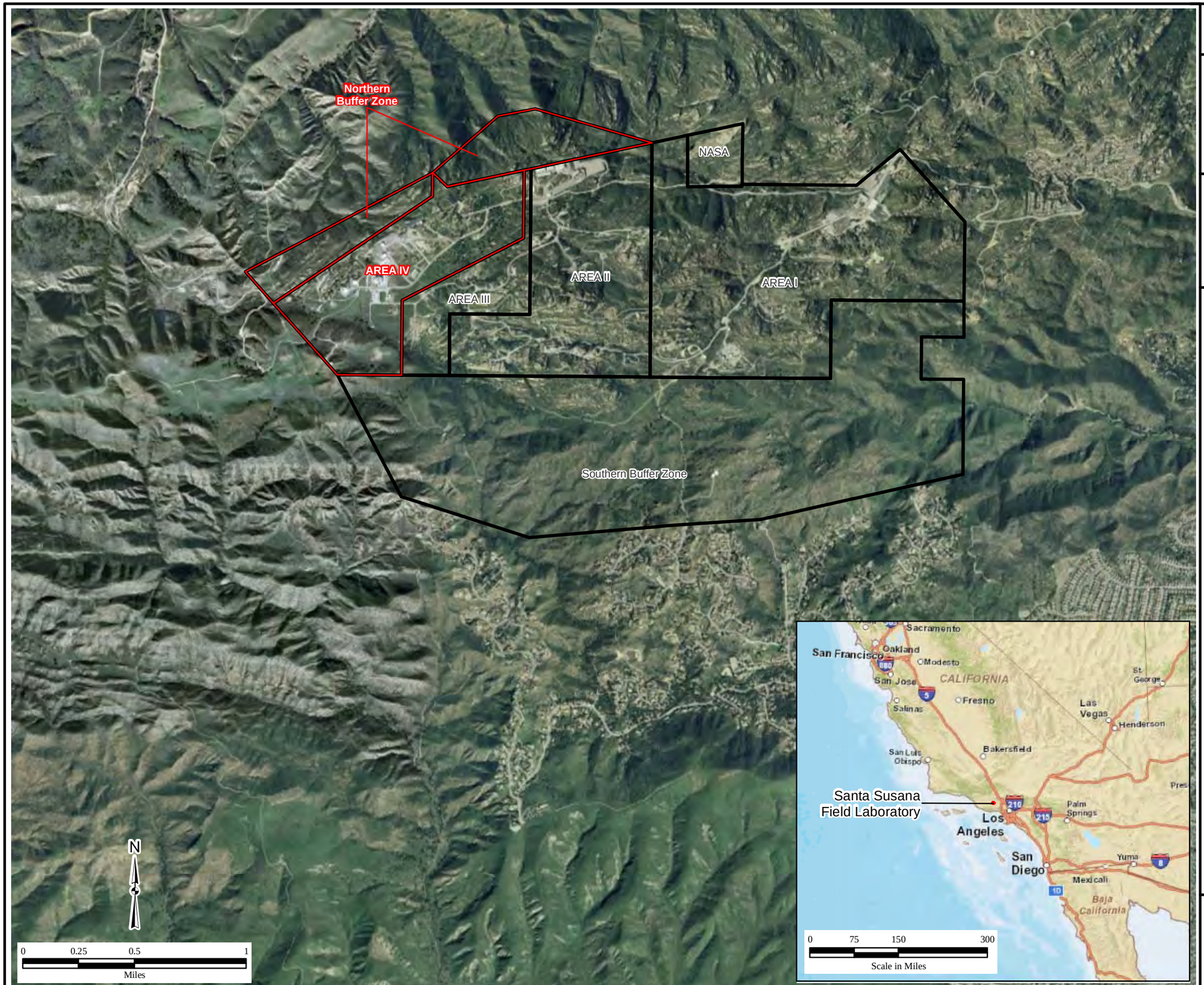
Figure 1.1
Site Location
Santa Susana Field Laboratory

U.S. EPA Region 9



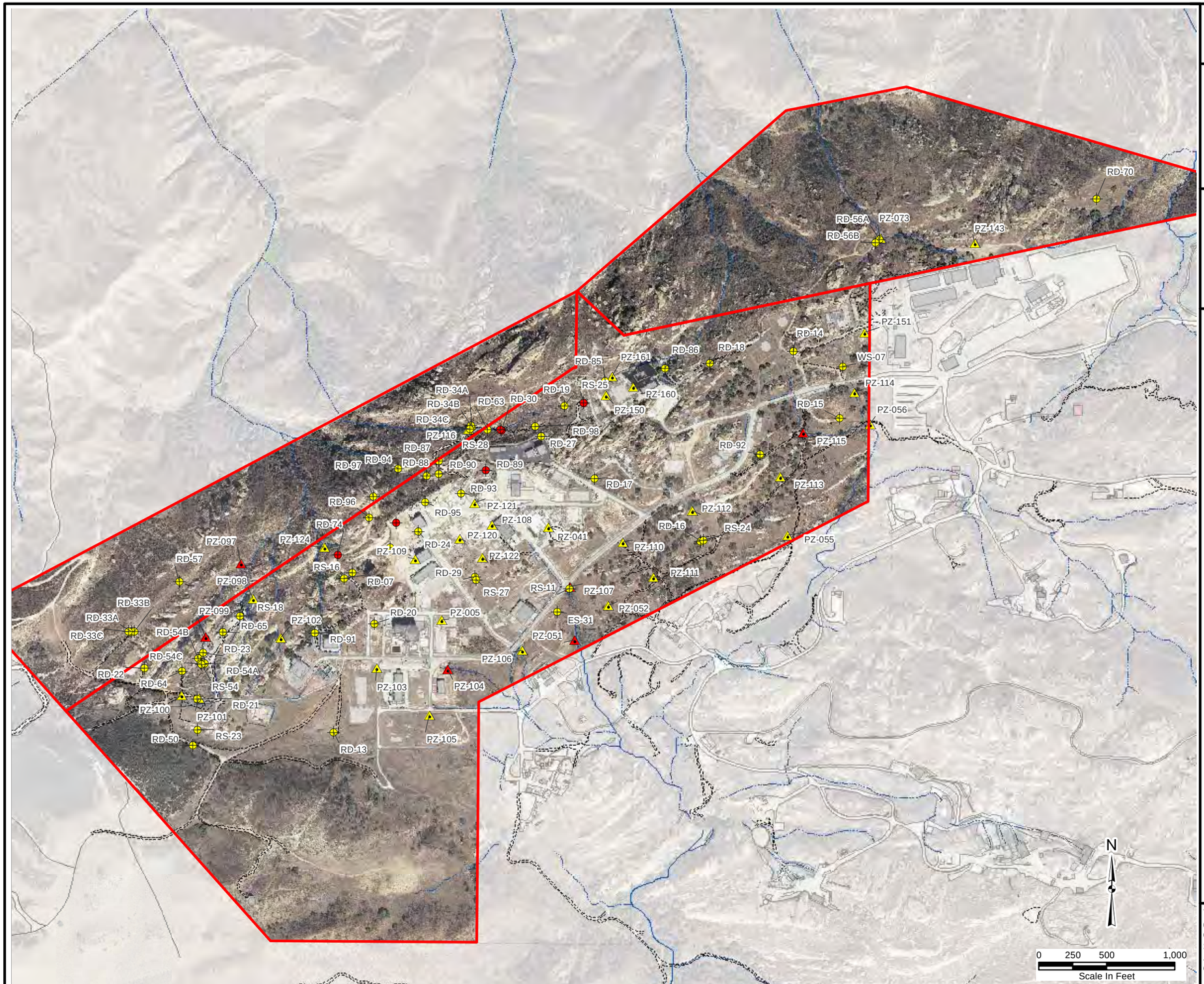
Legend

- Area IV Study Area Boundary
- Property Boundary

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(1-1)SiteMap.mxd
6/5/2012 pbillock
Source: CaSil, NAIP 2009; Boeing 2008

Figure 1.2
Onsite Well Sampling Locations
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Area IV Study Area Boundary
- Well Sampling Location
- Piezometer Sampling Location
- Well Damaged or Abandoned
- Piezometer Damaged or Abandooned
- Intermittent Stream
- Perennial Stream

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(1-2)_Area_IV_Onsite_SampleLocs_20110303.mxd
6/5/2012 pbillock
Source: Streams, SWMUs, and AOC Data. Boeing. 2009.
Aerial Imagery. Channel Islands Regional
Geographic Information Systems 2007

HGL HydroGeoLogic, Inc

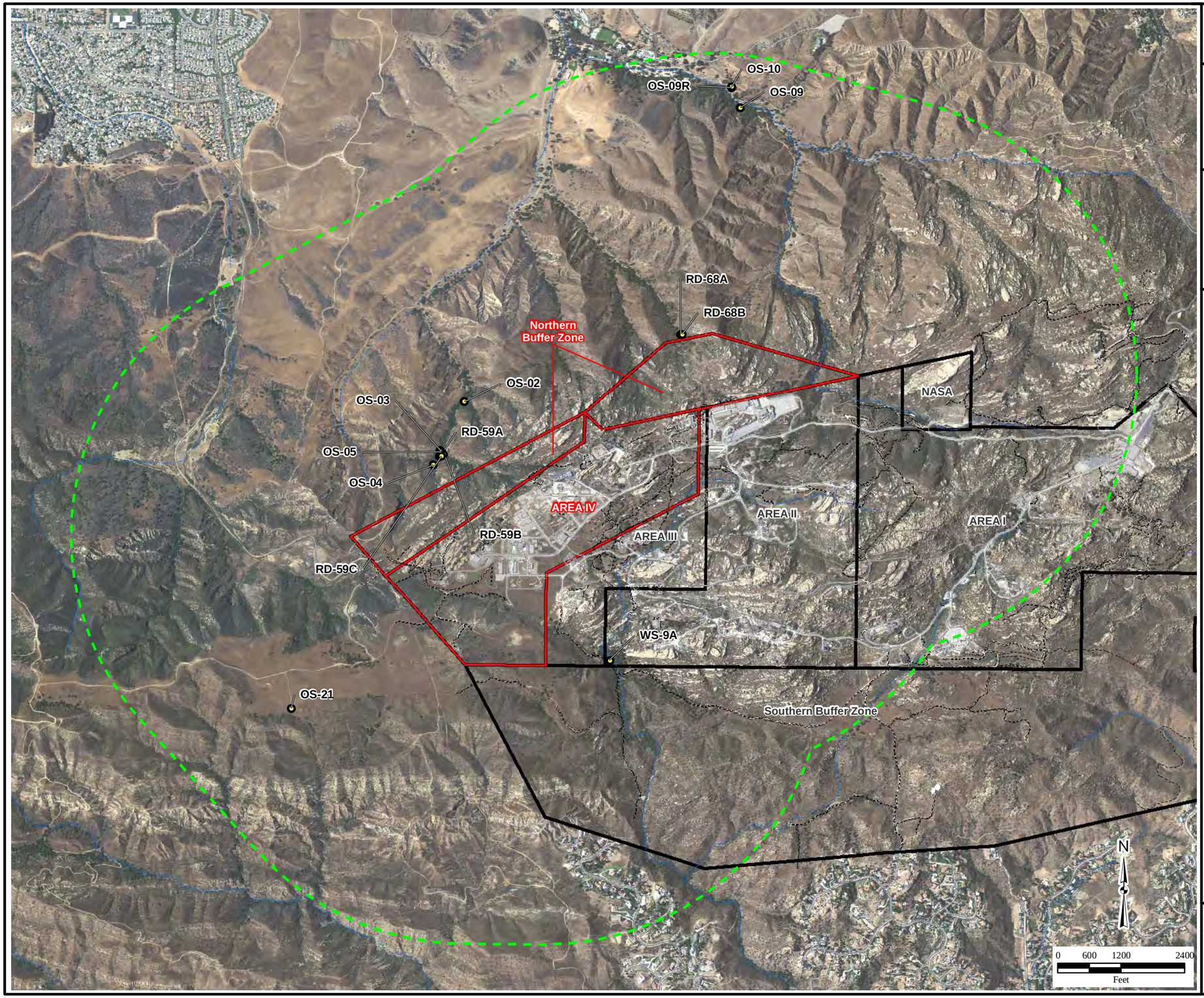


Figure 1.3
Phase II Offsite Well Sampling Locations
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

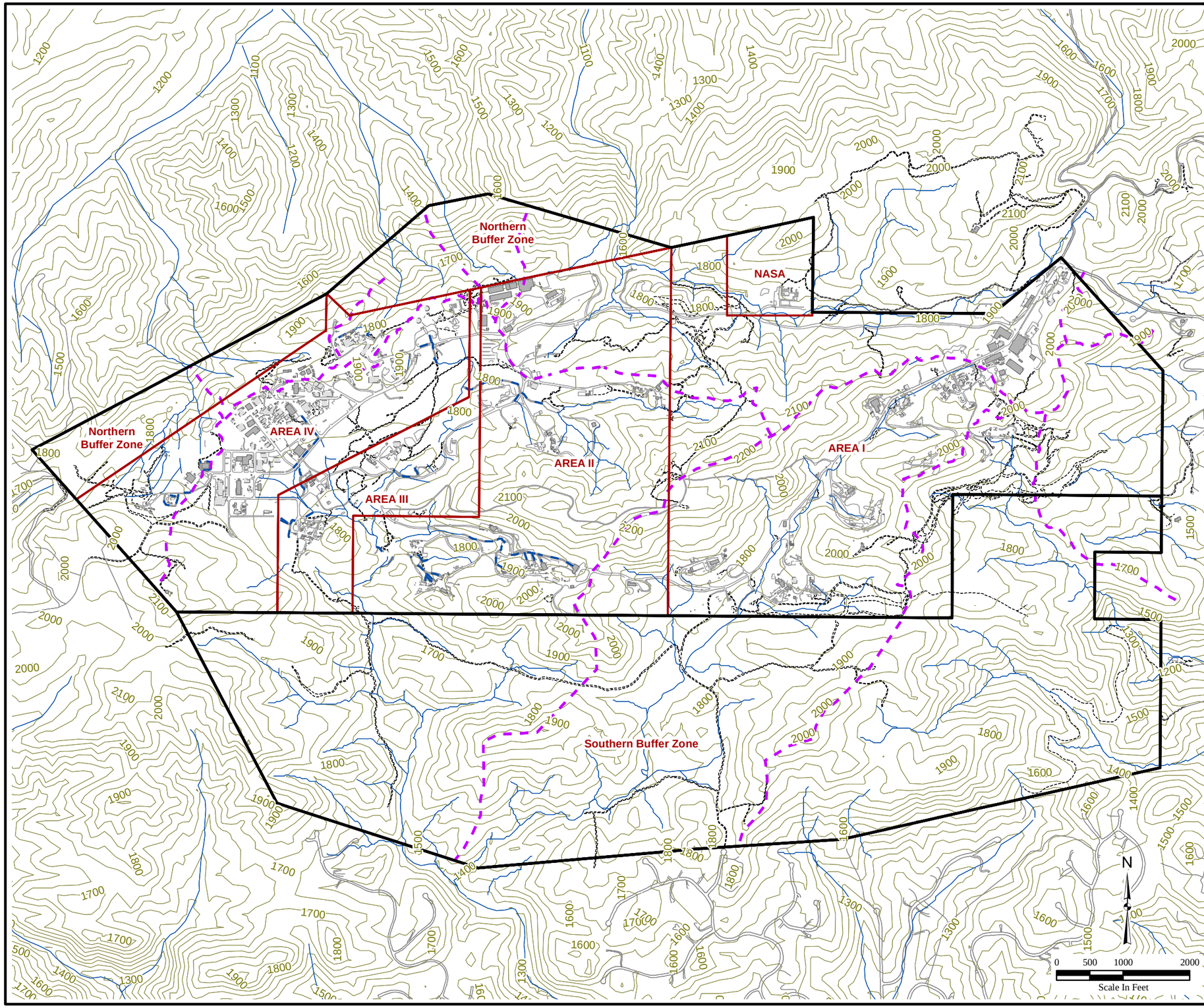
- Area IV Study Area Boundary
- Property Boundary
- Well included in SSFL Monitoring Network
- 1 Mile Survey Radius
- Intermittent Stream
- Perennial Stream
- OS-9 Off-Site Well Identification

Note:
Offsite well locations and the study area boundary were obtained from the following source:
Technical Memorandum Off-Site Well Inventory. Santa Susana Field Laboratory; Ventura County, CA DRAFT. April 4, 2007. Prepared for The Boeing Company, Santa Susana Field Laboratory. Prepared by MWH.

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(1-3)_Offsite_Well_Locations.mxd
6/5/2012 pbillock
Source: Boeing, 2009

Figure 2.1
Topographic Map
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- SSFL Property
- SSFL Administrative Areas
- Drainage Divide
- Demolished Building
- Existing Building
- Lined Channel
- Unlined Channel
- Offsite Roads
- Dirt Roads
- 50 ft Contours

Notes:
ft - feet
SSFL - Santa Susana Field Laboratory

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(2-1)_Topography.mxd
6/5/2012 pbillock
Source: CDM Inc. (2008). Draft Gap Analysis Report, Submitted on June 1, 2008. Prepared for the U.S. Department of Energy

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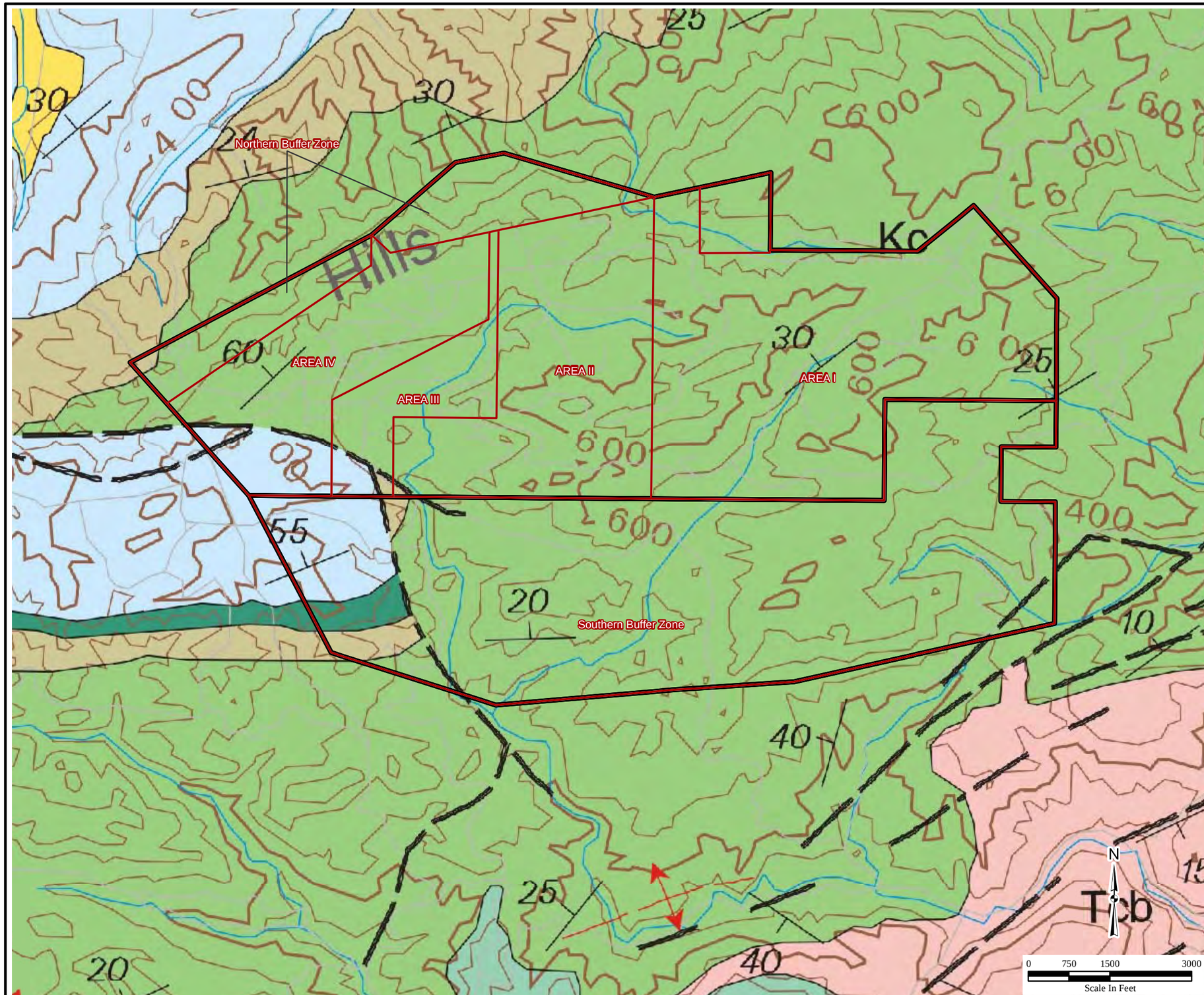
Figure 2.2
Geologic Map
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Santa Susana Field Laboratory Property Boundary
- Administrative Boundaries at the Santa Susana Field Laboratory

Geologic Formation

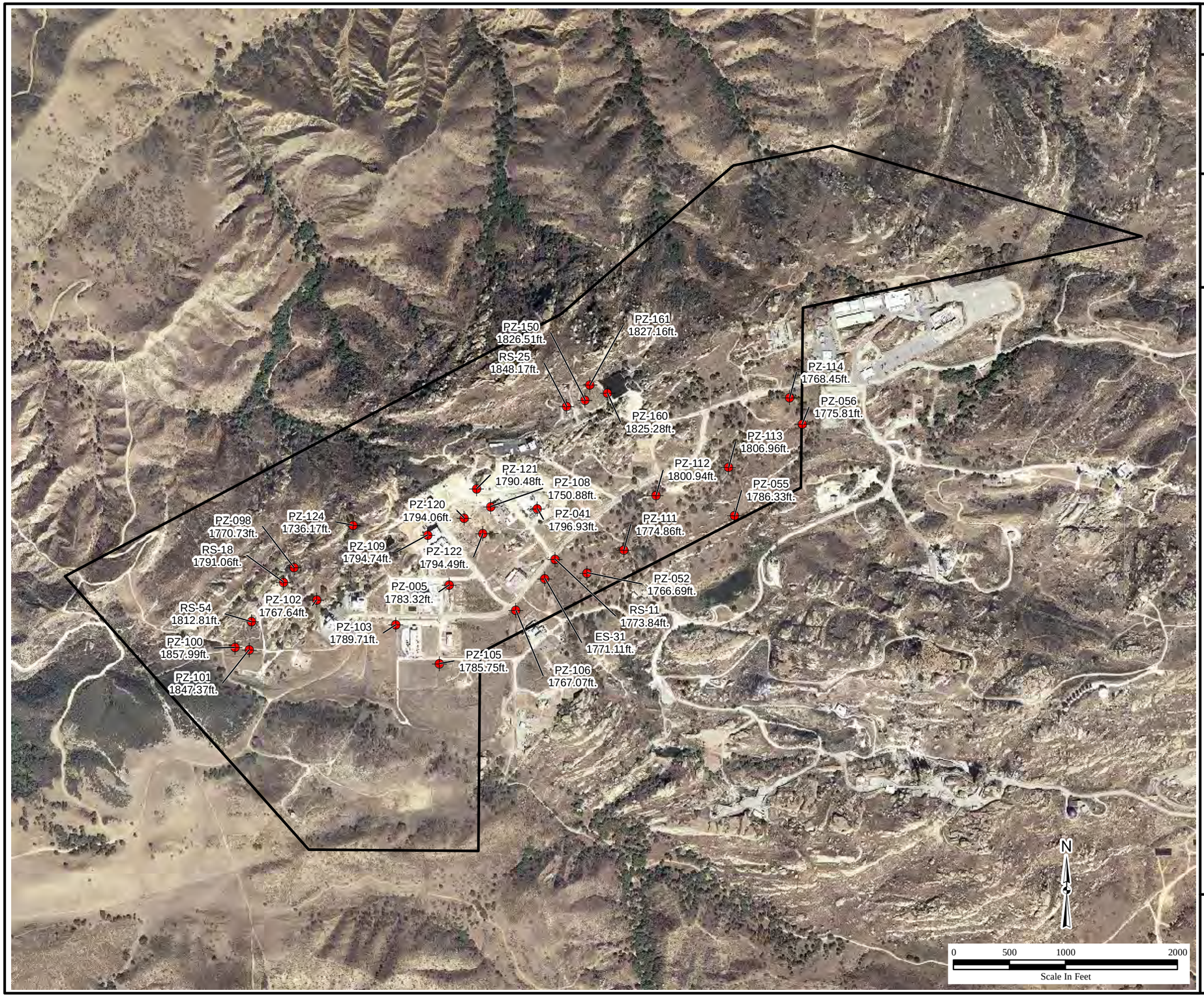
- Kc — Chatsworth Formation (late Cretaceous)
- Tss — Santa Susana Formation (early Eocene to late Paleocene)
- Tlv — Las Virgenes Formation (Paleocene)
- Tsi — Simi Conglomerate, Undivided (Paleocene)
- Tcb — Calabasas Formation, Undivided (early late Miocene and late middle Miocene)
- Tm — Modelo Formation Undivided (late Miocene)
- Qof — Old alluvial-fan deposits, Undivided (late to middle Pleistocene)

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(2-2)_GeologicMap.mxd
6/5/2012 pbillock
Source:HGL 2010, CIRGIS 2007
Source: Preliminary Geologic Map of the Los Angeles 30´ x 60´ Quadrangle, Southern California; Yerkes and Campbell; 2005

HGL HydroGeoLogic, Inc

Figure 5.1
Groundwater Elevation Shallow Aquifer
Gauging Event 1 (7/21/2010)
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

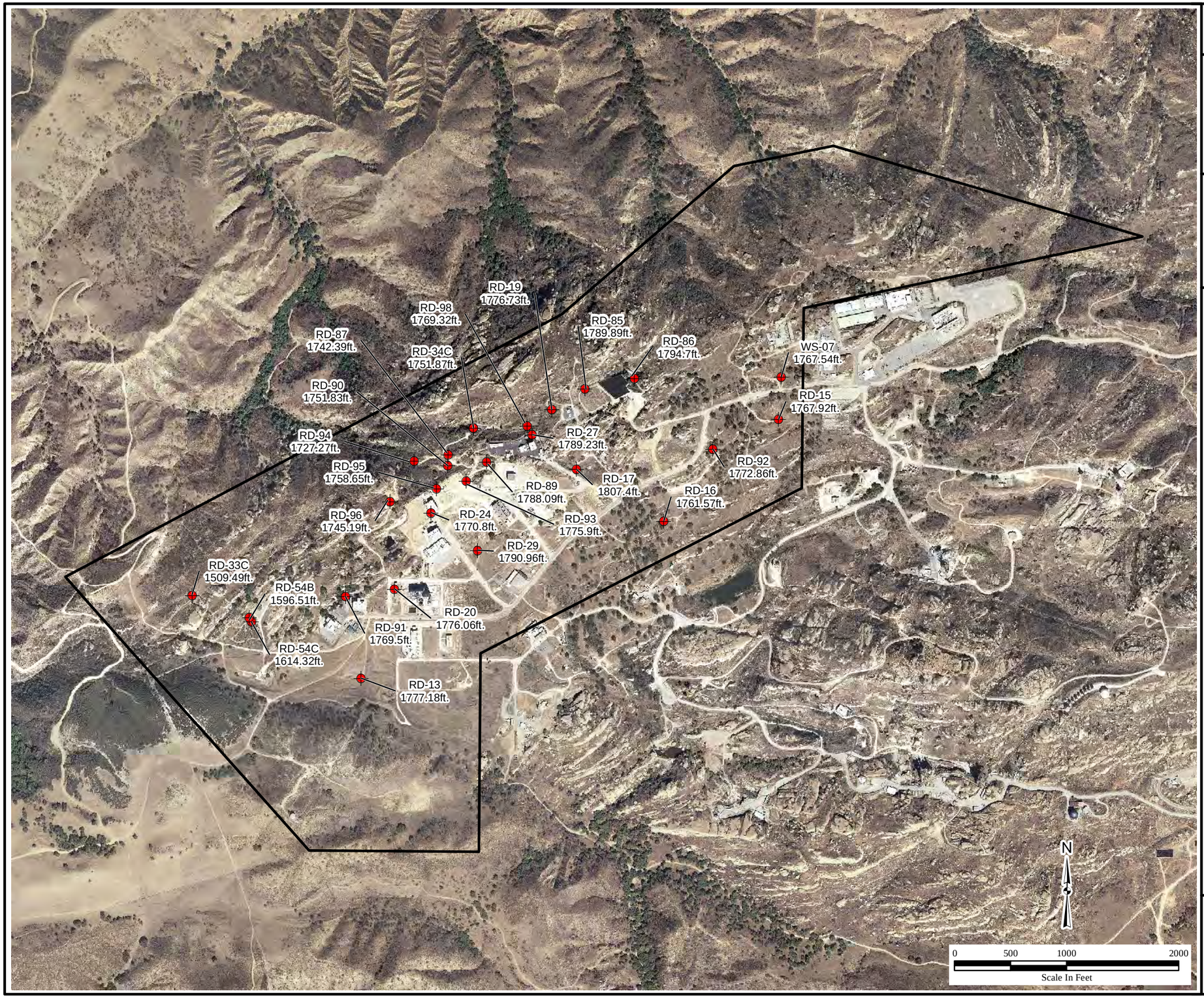
PZ-111 — Well ID
1774.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-1)_GW_Elevation_Shallow(Event1).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

Figure 5.2
Groundwater Elevation Deep Aquifer Gauging Event 1 (7/21/2010) Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

RD-92
1772.86 ft.

Well ID

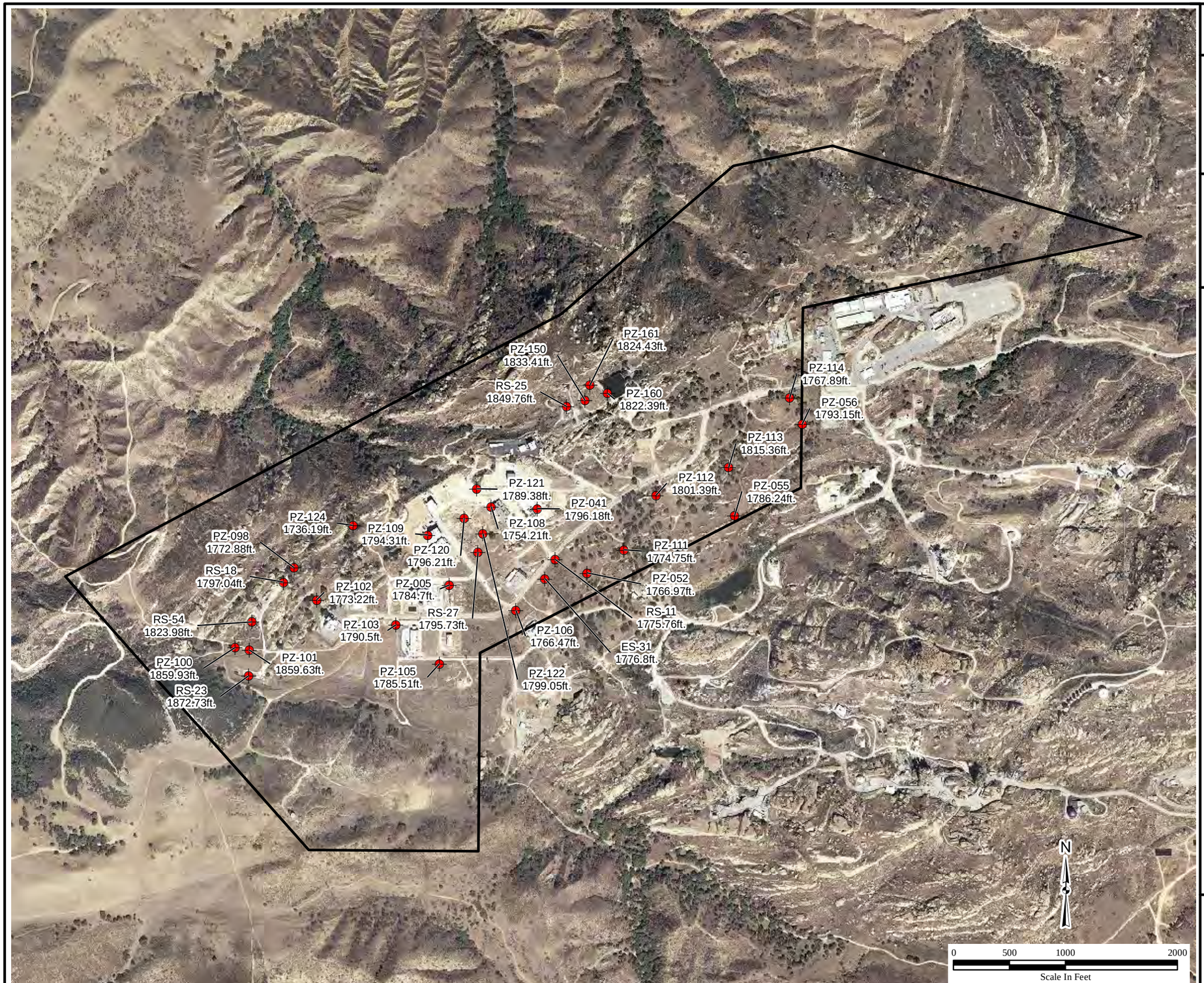
Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-2)_GW_Elevation_Deep(Event1).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

Figure 5.3
Groundwater Elevation Shallow Aquifer
Gauging Event 2 (1/10/2011- 1/11/2011)
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

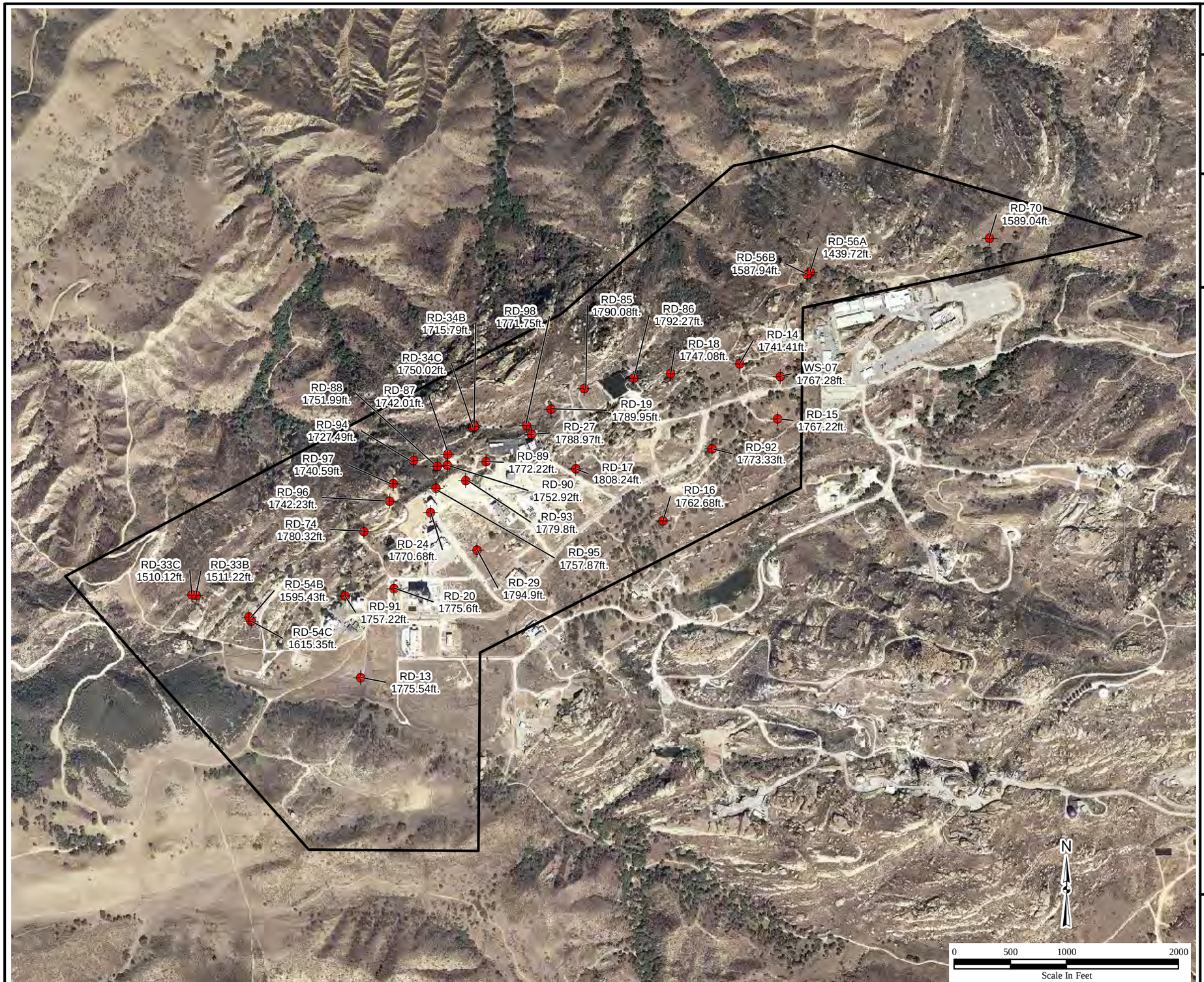
PZ-111 — Well ID
1774.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-3)_GW_Elevation_Shallow(Event2).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

Figure 5.4
Groundwater Elevation Deep Aquifer Gauging Event 2 (1/10/2011-1/11/2011) Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

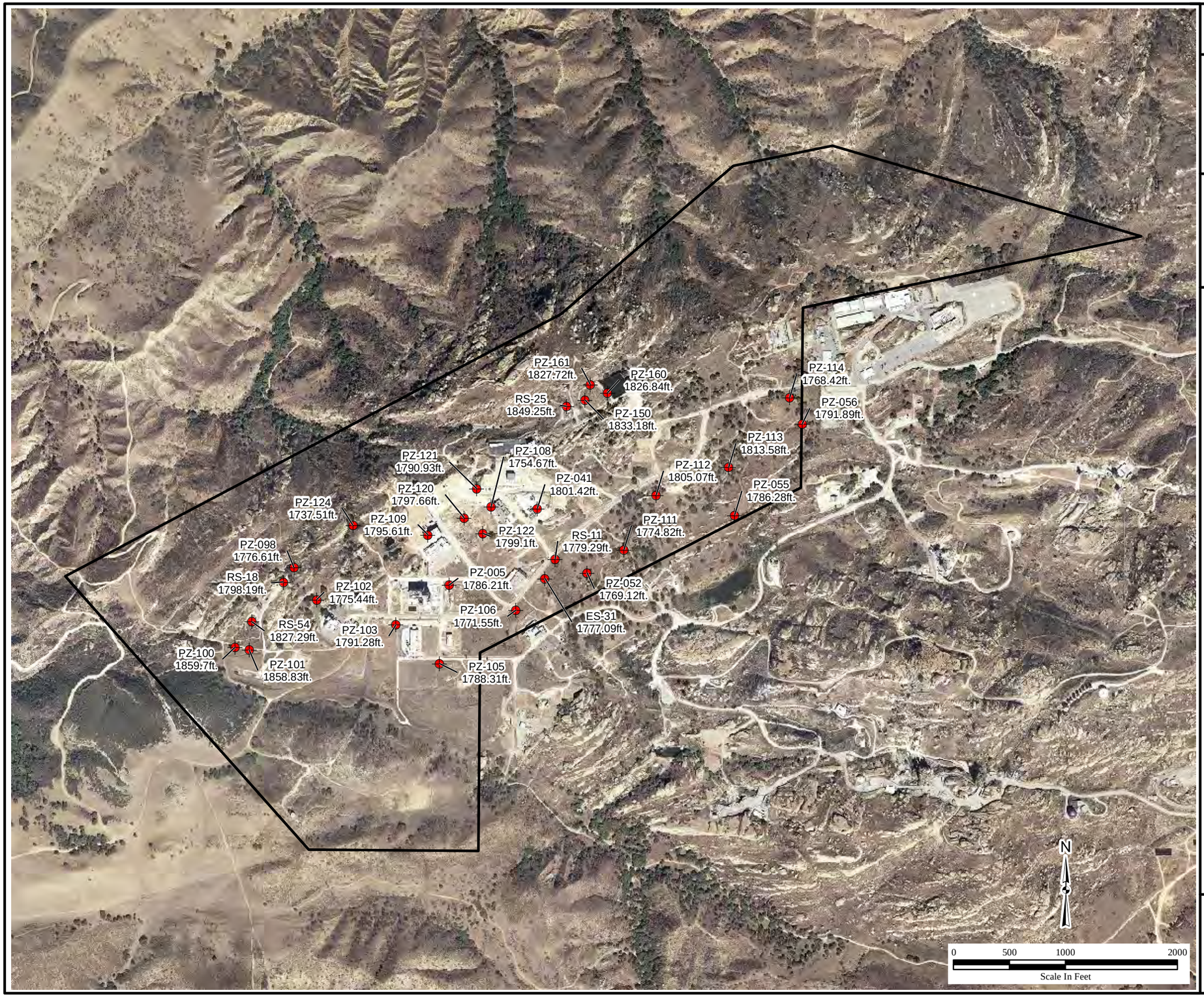
RD-92 — Well ID
1772.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-4)_GW_Elevation_Deep(Event2).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

Figure 5.5
Groundwater Elevation Shallow Aquifer
Gauging Event 3 (3/16/2011)
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

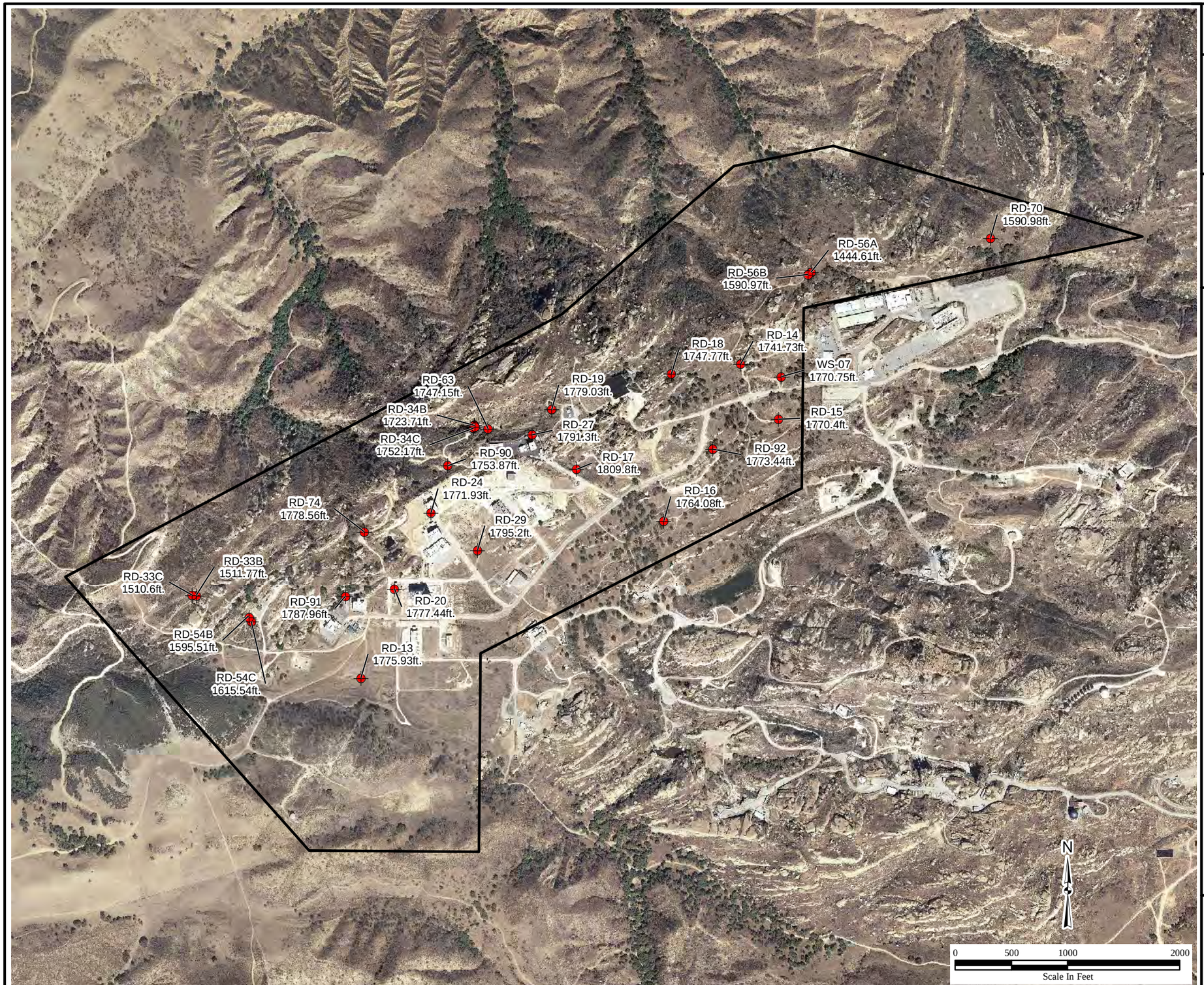
PZ-111 — Well ID
1774.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-5)_GW_Elevation_Shallow(Event3).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

Figure 5.6
Groundwater Elevation Deep Aquifer Gauging Event 3 (3/16/2011) Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Groundwater Sample Location

Study Area

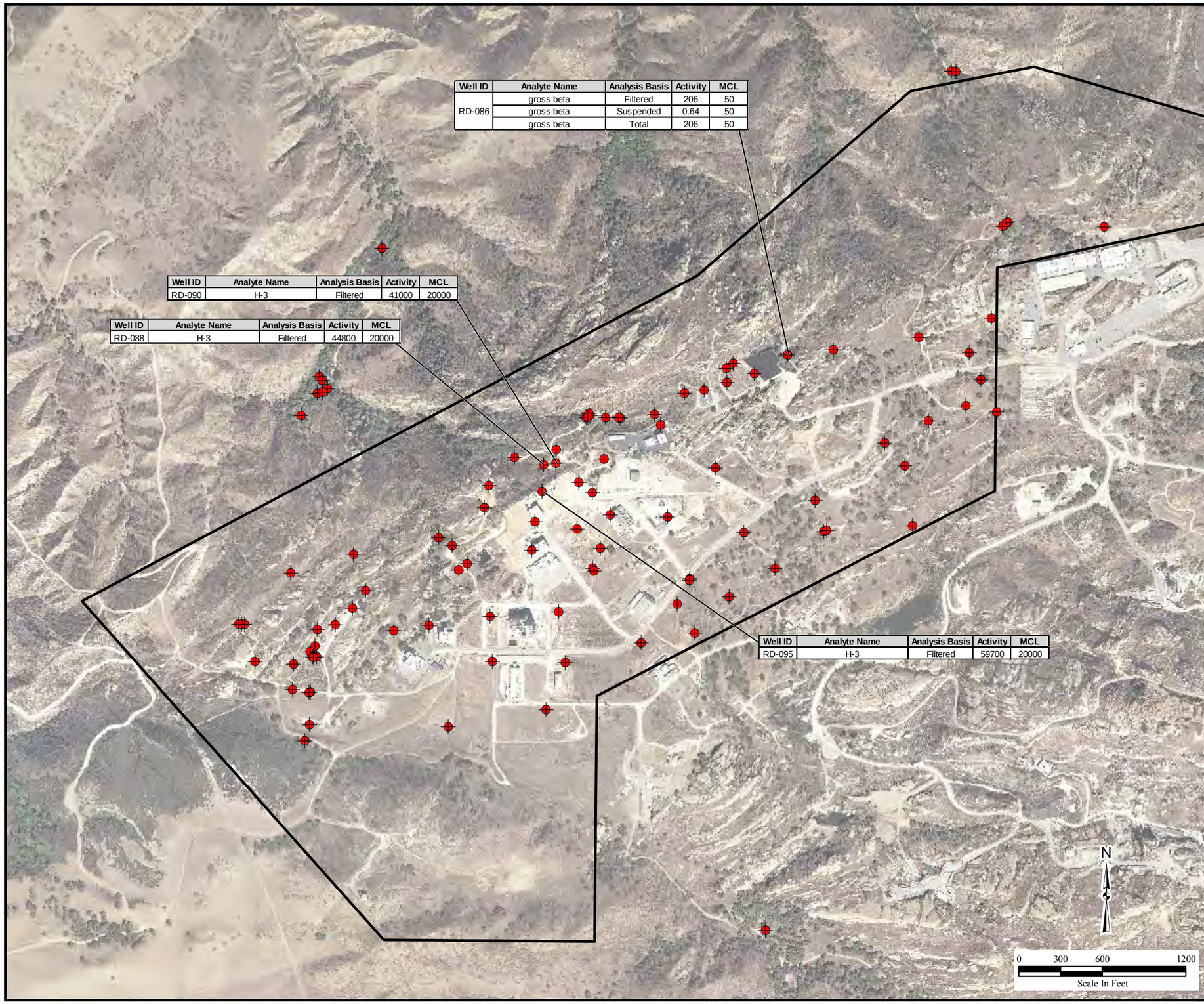
RD-92 / 1772.86 ft. — Well ID / Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(5-6)_GW_Elevation_Deep(Event3).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

Figure 5.7
Phase I Onsite Sample Locations Radionuclide Concentrations Above Maximum Contaminant Levels Santa Susana Field Laboratory

U.S. EPA Region 9



Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-086	gross beta	Filtered	206	50
	gross beta	Suspended	0.64	50
	gross beta	Total	206	50

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-090	H-3	Filtered	41000	20000

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-088	H-3	Filtered	44800	20000

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-095	H-3	Filtered	59700	20000

Legend

Groundwater Sample Location

Study Area

Note:
All activity and MCL values reported in pCi/L.

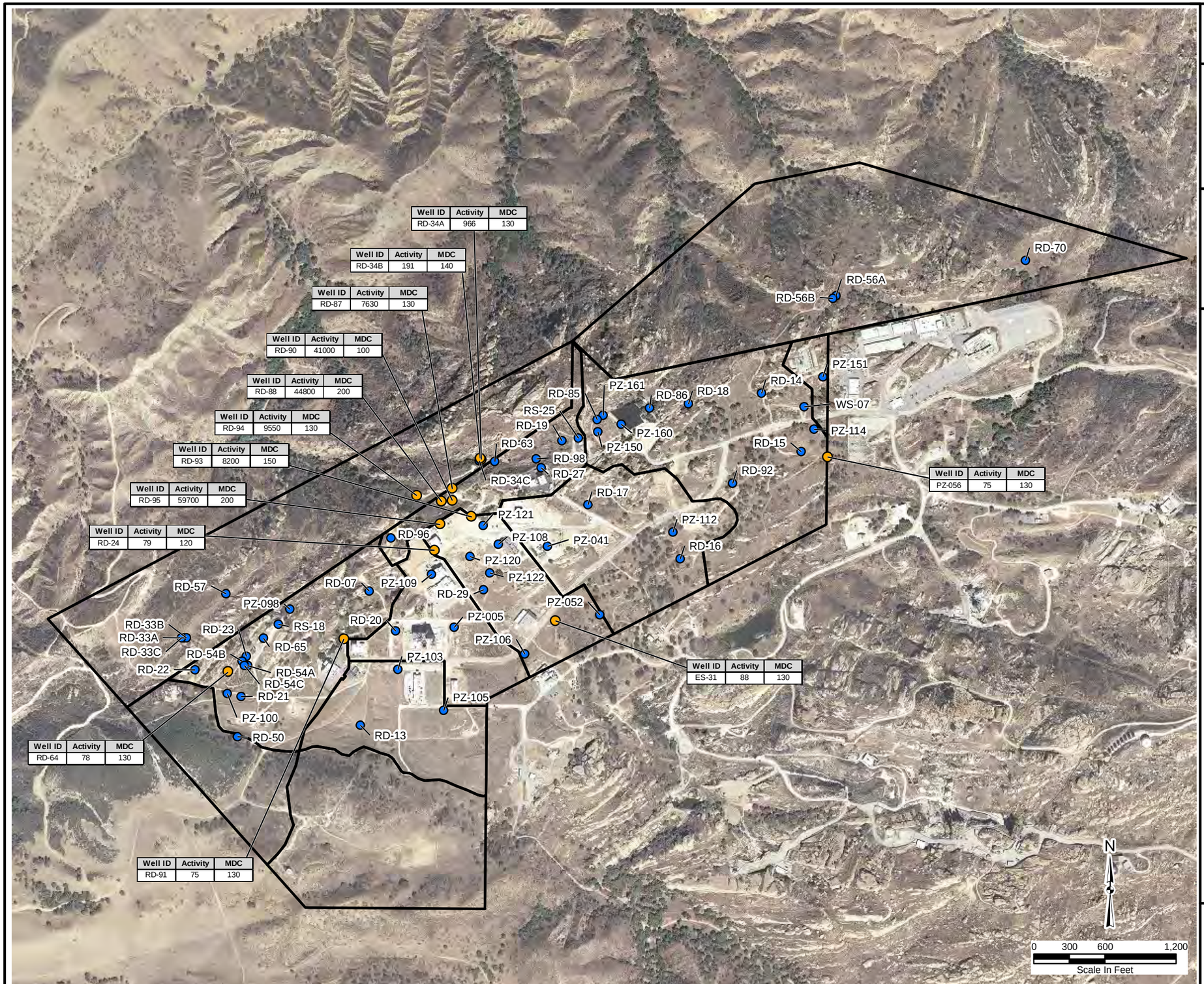
Tritium results are of the filtered fraction of the sample.

H-3 - tritium
ID - identification
MCL - maximum contaminant level
pCi/L - picoCuries per liter

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-7)_GW_PhaseI_RadionucliceConcentrations.mxd
6/28/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

Figure 5.8
Phase I Sample Locations
Tritium Detection
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Phase I Sample Location with H-3 Detection
- All Other Phase I Sample Locations
- Area IV and NBZ

Notes:
All activity and MDC values reported in pCi/L.

Tritium results are of the filtered fraction of the sample.

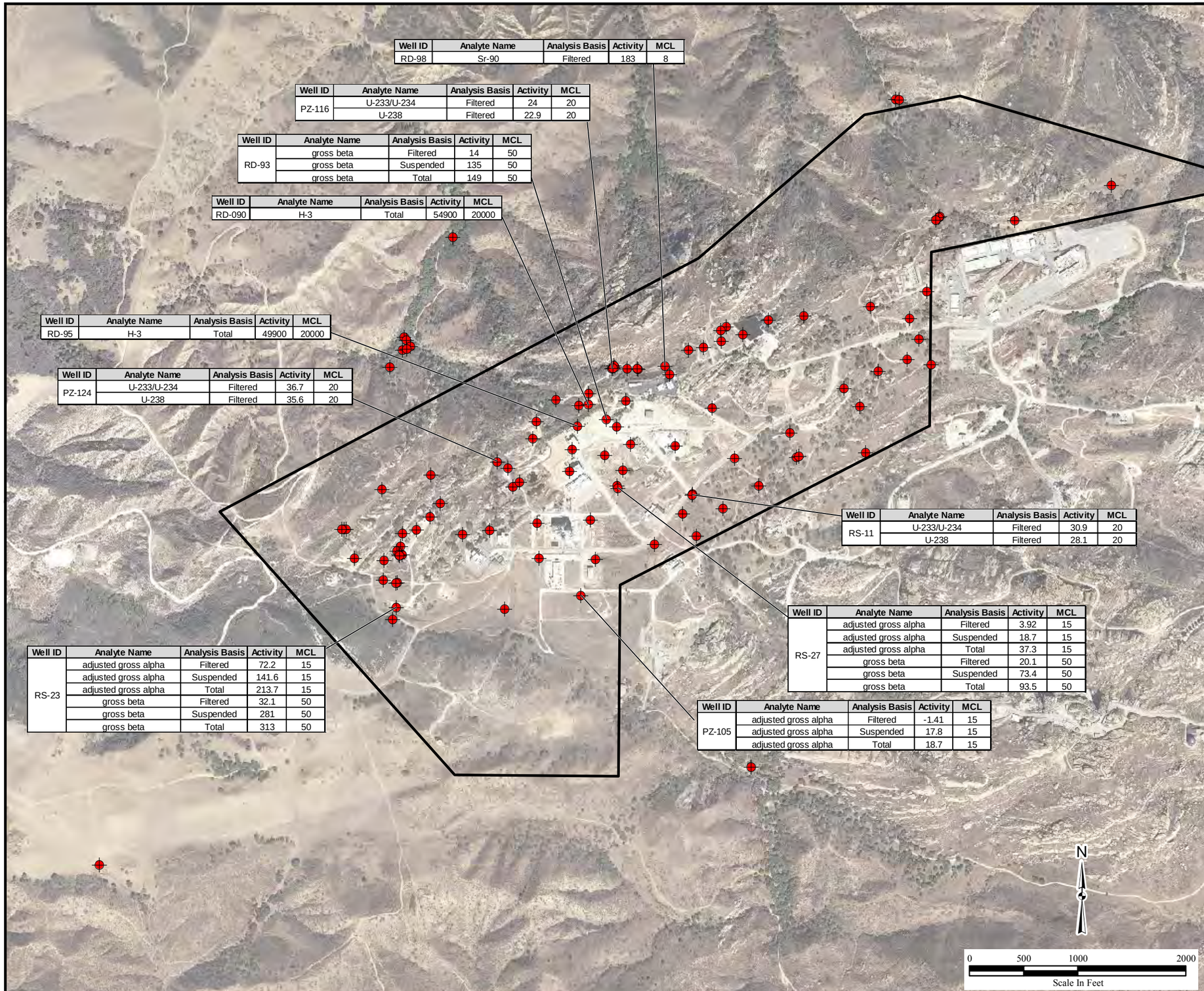
ID - identification
H-3 - tritium
MDC - minimum detectable concentration
NBZ - Northern Buffer Zone
pCi/L - picoCuries per liter

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(5-8)_GW_PhaseI_H-3_Detected.mxd
6/27/2012 pbillock
Source: Streams, SWMUs, and AOC Data. Boeing. 2009. Aerial Imagery. Channel Islands Regional Geographic Information Systems 2007

HGL HydroGeoLogic, Inc

Figure 5.9
Phase II Onsite Sample Locations Radionuclide Concentrations Above Maximum Contaminant Levels Santa Susana Field Laboratory

U.S. EPA Region 9



Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-98	Sr-90	Filtered	183	8

Well ID	Analyte Name	Analysis Basis	Activity	MCL
PZ-116	U-233/U-234	Filtered	24	20
	U-238	Filtered	22.9	20

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-93	gross beta	Filtered	14	50
	gross beta	Suspended	135	50
	gross beta	Total	149	50

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-090	H-3	Total	54900	20000

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RD-95	H-3	Total	49900	20000

Well ID	Analyte Name	Analysis Basis	Activity	MCL
PZ-124	U-233/U-234	Filtered	36.7	20
	U-238	Filtered	35.6	20

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RS-11	U-233/U-234	Filtered	30.9	20
	U-238	Filtered	28.1	20

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RS-27	adjusted gross alpha	Filtered	3.92	15
	adjusted gross alpha	Suspended	18.7	15
	adjusted gross alpha	Total	37.3	15
	gross beta	Filtered	20.1	50
	gross beta	Suspended	73.4	50
	gross beta	Total	93.5	50

Well ID	Analyte Name	Analysis Basis	Activity	MCL
RS-23	adjusted gross alpha	Filtered	72.2	15
	adjusted gross alpha	Suspended	141.6	15
	adjusted gross alpha	Total	213.7	15
	gross beta	Filtered	32.1	50
	gross beta	Suspended	281	50
	gross beta	Total	313	50

Well ID	Analyte Name	Analysis Basis	Activity	MCL
PZ-105	adjusted gross alpha	Filtered	-1.41	15
	adjusted gross alpha	Suspended	17.8	15
	adjusted gross alpha	Total	18.7	15

Legend

Groundwater Sample Location

Study Area

Note:
All activity and MCL values reported in pCi/L.

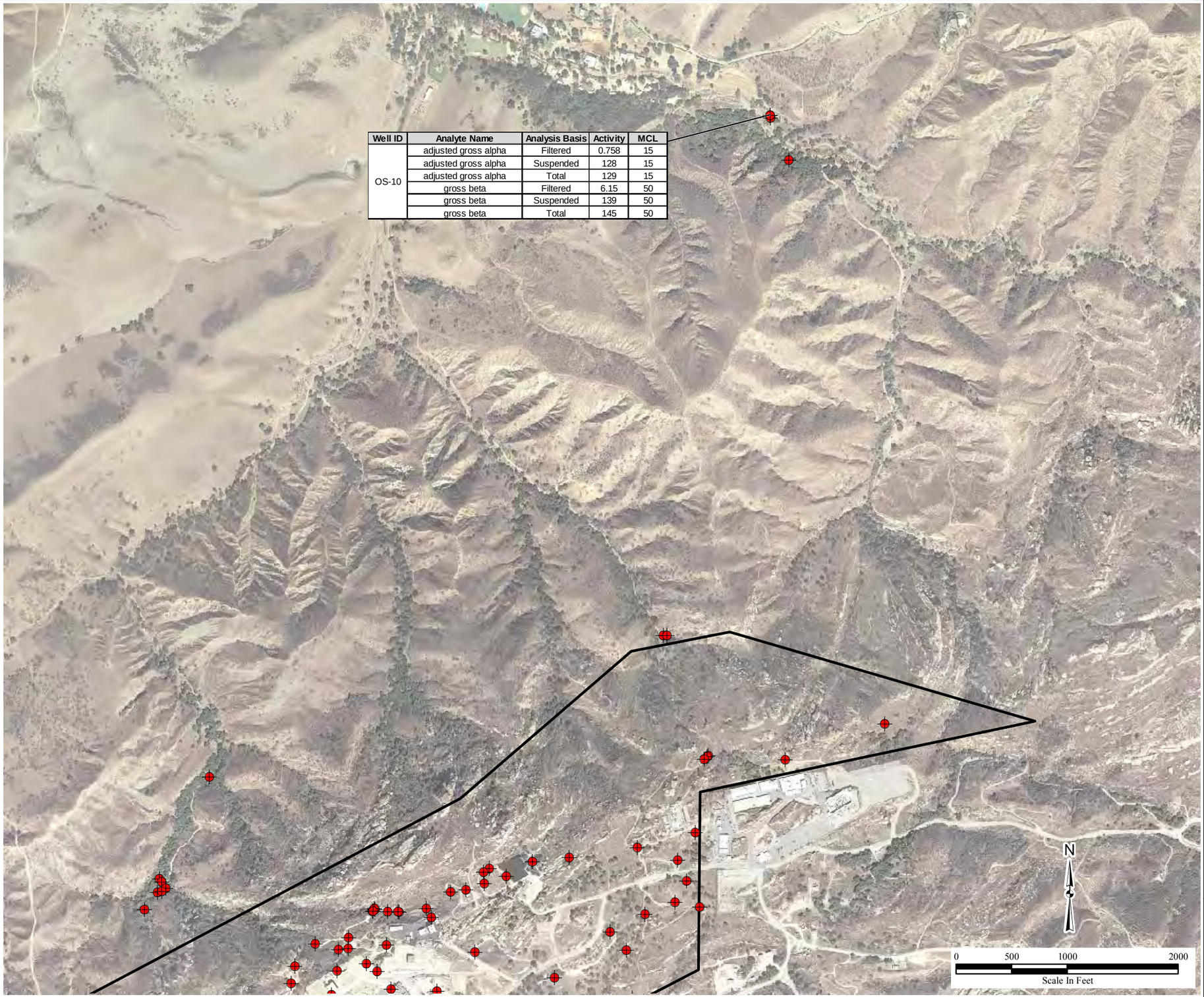
Tritium results are reported as the total concentration of the unfiltered sample.

H-3 - tritium
ID - identification
MCL - maximum contaminant level
pCi/L - picoCuries per liter
Sr - strontium
U - uranium

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(5-9)_GW_PhaseII_RadionuclideConcentrations.mxd
7/20/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

Figure 5.10
Phase II Offsite Locations Radionuclide Concentrations Above Maximum Contaminant Levels Santa Susana Field Laboratory

U.S. EPA Region 9



Well ID	Analyte Name	Analysis Basis	Activity	MCL
OS-10	adjusted gross alpha	Filtered	0.758	15
	adjusted gross alpha	Suspended	128	15
	adjusted gross alpha	Total	129	15
	gross beta	Filtered	6.15	50
	gross beta	Suspended	139	50
	gross beta	Total	145	50

Legend

Groundwater Sample Location

Study Area

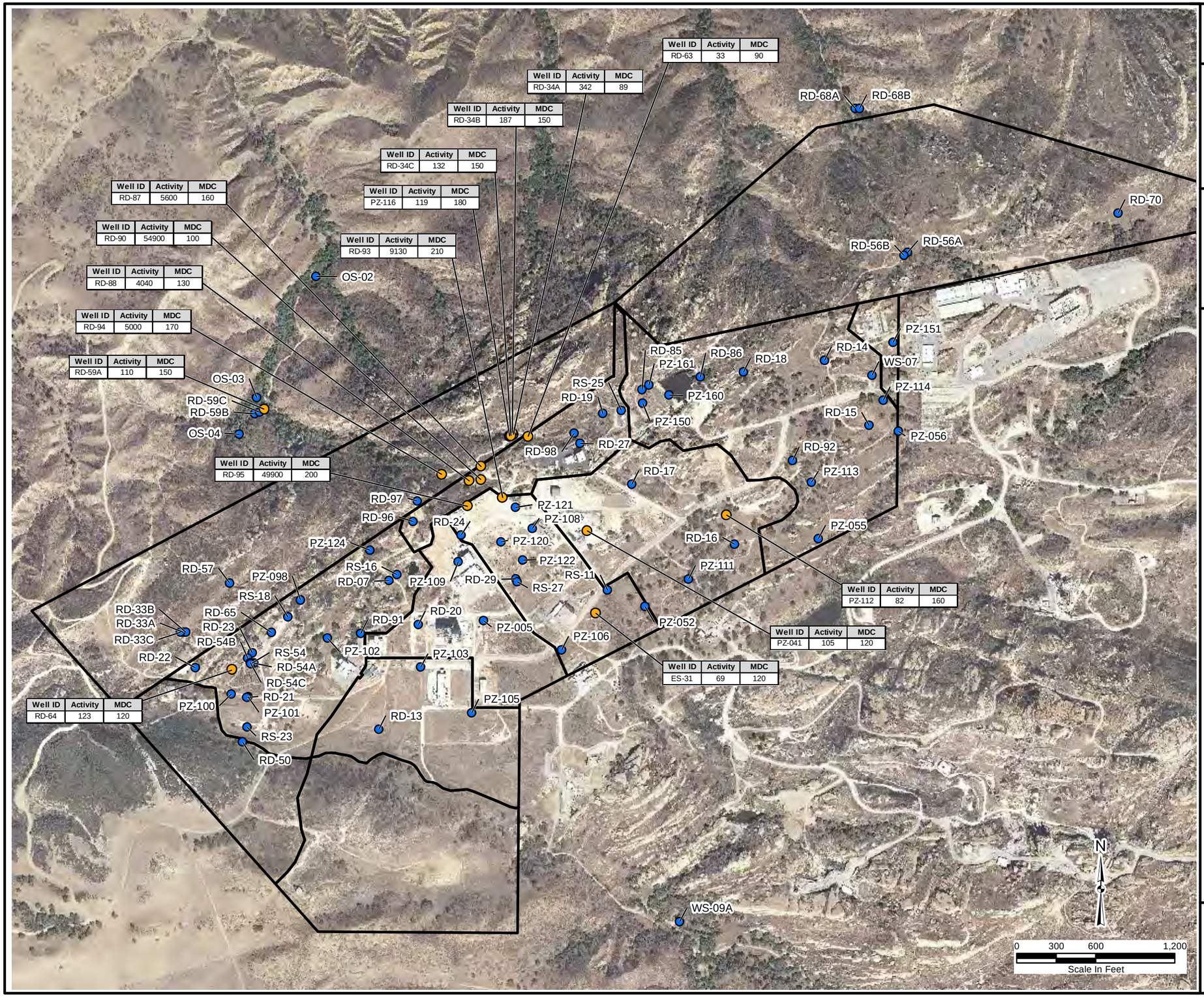
Note:
All activity and MCL values reported in pCi/L.

ID - identification
MCL - maximum contaminant level
pCi/L - picoCuries per liter

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-10)_GW_PhaseII_offsite_RadionuclideConcentrations.mxd
6/28/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

Figure 5.11
Phase II Sample Locations
Tritium Detections
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Phase II Sample Location with H-3 Detection
- All Other Phase II Sample Locations
- Area IV and NBZ

Notes:
All activity and MDC values reported in pCi/L.

Tritium results are reported as the total concentration of the unfiltered sample.

ID - identification
H-3 - tritium
MDC - minimum detectable concentration
NBZ - Northern Buffer Zone
pCi/L - picoCuries per liter

Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\(5-11)_GW_PhaseII_H-3_Detected.mxd
6/27/2012 pbillock
Source: Streams, SWMUs, and AOC Data. Boeing. 2009. Aerial Imagery. Channel Islands Regional Geographic Information Systems 2007

HGL HydroGeoLogic, Inc

APPENDIX B

GAUGING EVENT DATA SHEETS

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Table B.1
Well Gauging Data
Groundwater Sampling

Well Identification	Measuring Point Elevation (ft above MSL)	July 2010 Gauging Event			January 2011 Gauging Event			March 2011 Gauging Event			Comments
		Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	
RD-07	NA	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-13	1840.27	07/21/10	63.09	1777.18	01/11/11	64.73	1775.54	03/16/11	64.34	1775.93	
RD-14	1824.29	07/21/10	82.58	1741.71	01/10/11	82.88	1741.41	03/16/11	82.56	1741.73	
RD-15	1817.7	07/21/10	49.78	1767.92	01/10/11	50.48	1767.22	03/16/11	47.30	1770.40	
RD-16	1808.99	07/21/10	47.42	1761.57	01/10/11	46.31	1762.68	03/16/11	44.91	1764.08	
RD-17	1836.3	07/21/10	28.9	1807.4	01/10/11	28.06	1808.24	03/16/11	26.50	1809.80	
RD-18	1839.49	07/21/10	91.15	1748.34	01/10/11	92.41	1747.08	03/16/11	91.72	1747.77	
RD-19	1853.13	07/21/10	76.4	1776.73	01/10/11	63.18	1789.95	03/16/11	74.10	1779.03	
RD-20	1819.72	07/21/10	43.66	1776.06	01/11/11	44.12	1775.60	03/16/11	42.28	1777.44	
RD-21	1866.96	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-22	1853.41	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-23	1838.19	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-24	1809.93	07/21/10	39.13	1770.8	01/10/11	39.25	1770.68	03/16/11	38.00	1771.93	
RD-25	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Abandoned 4/2004 as part of Building 4059 demolition.
RD-27	1841.67	07/21/10	52.44	1789.23	01/10/11	52.70	1788.97	03/16/11	50.37	1791.30	
RD-28	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Abandoned 4/2004 as part of Building 4059 demolition.
RD-29	1806.29	07/21/10	15.33	1790.96	01/10/11	11.39	1794.90	03/16/11	11.09	1795.20	
RD-30	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well capped.
RD-33A	1792.97	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-33B	1793.21	07/21/10	282.87	1510.34	01/11/11	281.99	1511.22	03/16/11	281.44	1511.77	
RD-33C	1793.54	07/21/10	284.05	1509.49	01/11/11	283.42	1510.12	03/16/11	282.94	1510.60	
RD-34A	1761.83	07/21/10	39.66	1722.17	01/10/11	43.52	1718.31	03/16/11	34.16	1727.67	
RD-34B	1762.51	07/21/10	42.51	1720	01/10/11	46.72	1715.79	03/16/11	38.80	1723.71	
RD-34C	1762.6	07/21/10	10.73	1751.87	01/10/11	12.58	1750.02	03/16/11	10.43	1752.17	
RD-50	1914.88	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-54A	1841.72	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-54B	1842.54	07/21/10	246.03	1596.51	01/11/11	247.11	1595.43	03/16/11	247.03	1595.51	
RD-54C	1843.77	07/21/10	229.45	1614.32	01/10/11	228.42	1615.35	03/16/11	228.23	1615.54	
RD-56A	1758.62	07/21/10	317.51	1441.11	01/10/11	318.90	1439.72	03/16/11	314.01	1444.61	
RD-56B	1761.83	07/21/10	174.25	1587.58	01/10/11	173.89	1587.94	03/16/11	170.86	1590.97	
RD-57	1774.15	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™

Table B.1
Well Gauging Data
Groundwater Sampling

Well Identification	Measuring Point Elevation (ft above MSL)	July 2010 Gauging Event			January 2011 Gauging Event			March 2011 Gauging Event			Comments
		Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	
RD-63	1764.85	07/21/10	22.1	1742.75	01/10/11	NG	NG	03/16/11	17.70	1747.15	Could not access well.
RD-64	1857.04	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-65	1819.14	07/21/10	NA	NA	01/11/11	NA	NA	03/16/11	NA	NA	FLUTe™
RD-70	1732.26	07/21/10	144.51	1587.75	01/10/11	143.22	1589.04	03/16/11	141.28	1590.98	
RD-74	1810.9	07/21/10	Dry	Dry	01/11/11	30.58	1780.32	03/16/11	32.34	1778.56	Well damaged. Could not insert pump or bailer.
RD-85	1849.09	07/21/10	59.2	1789.89	01/10/11	59.01	1790.08	03/16/11	59.13	1789.96	
RD-86	1830.51	07/21/10	35.81	1794.7	01/10/11	38.24	1792.27	03/16/11	29.43	1801.08	
RD-87	1789.09	07/21/10	46.7	1742.39	01/10/11	47.08	1742.01	03/16/11	45.73	1743.36	
RD-88	1774.62	07/21/10	26.09	1748.53	01/10/11	22.63	1751.99	03/16/11	22.47	1752.15	
RD-89	1814.18	07/21/10	26.09	1788.09	01/10/11	41.96	1772.22	03/16/11	39.72	1774.46	Well damaged. Bentonite on end of water level probe.
RD-90	1784.75	07/21/10	32.92	1751.83	01/10/11	31.83	1752.92	03/16/11	30.88	1753.87	
RD-91	1818.04	07/21/10	48.54	1769.5	01/11/11	60.82	1757.22	03/16/11	30.08	1787.96	
RD-92	1833.74	07/21/10	60.88	1772.86	01/10/11	60.41	1773.33	03/16/11	60.30	1773.44	
RD-93	1810.48	07/21/10	34.58	1775.9	01/10/11	30.68	1779.80	03/16/11	33.43	1777.05	
RD-94	1744.38	07/21/10	17.11	1727.27	01/10/11	16.89	1727.49	03/16/11	13.23	1731.15	
RD-95	1811.36	07/21/10	52.71	1758.65	01/10/11	53.49	1757.87	03/16/11	32.58	1778.78	
RD-96	1805.14	07/21/10	59.95	1745.19	01/11/11	62.91	1742.23	03/16/11	60.17	1744.97	
RD-97	1792.22	07/21/10	Dry	Dry	01/11/11	51.63	1740.59	03/16/11	47.26	1744.96	
RD-98	1808.73	07/21/10	39.41	1769.32	01/10/11	36.98	1771.75	03/16/11	32.83	1775.90	
RS-11	1790.39	07/21/10	16.55	1773.84	01/10/11	14.63	1775.76	03/16/11	11.10	1779.29	
RS-16	1811.05	07/21/10	Dry	Dry	01/11/11	Dry	Dry	03/16/11	Dry	Dry	
RS-18	1802.86	07/21/10	11.8	1791.06	01/11/11	5.82	1797.04	03/16/11	4.67	1798.19	
RS-23	1887.25	07/21/10	Dry	Dry	01/11/11	14.52	1872.73	03/16/11	Dry	Dry	
RS-24	1809.24	07/21/10	Dry	Dry	01/10/11	Dry	Dry	03/16/11	Dry	Dry	
RS-25	1862.71	07/21/10	14.54	1848.17	01/10/11	12.95	1849.76	03/16/11	13.46	1849.25	
RS-27	1804.78	07/21/10	Dry	Dry	01/10/11	9.05	1795.73	03/16/11	8.99	1795.79	
RS-28	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well capped.
RS-54	1846.66	07/21/10	33.85	1812.81	01/11/11	22.68	1823.98	03/16/11	19.37	1827.29	
PZ-005	1800.97	07/21/10	17.65	1783.32	01/11/11	16.27	1784.70	03/16/11	14.76	1786.21	
PZ-041	1809.1	07/21/10	12.17	1796.93	01/10/11	12.92	1796.18	03/16/11	7.68	1801.42	
PZ-051	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well casing bent, could not insert pump or bailer.

Table B.1
Well Gauging Data
Groundwater Sampling

Well Identification	Measuring Point Elevation (ft above MSL)	July 2010 Gauging Event			January 2011 Gauging Event			March 2011 Gauging Event			Comments
		Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	
PZ-052	1790.72	07/21/10	24.03	1766.69	01/10/11	23.75	1766.97	03/16/11	21.60	1769.12	
PZ-055	1818.4	07/21/10	32.07	1786.33	01/10/11	32.16	1786.24	03/16/11	32.12	1786.28	
PZ-056	1805.86	07/21/10	30.05	1775.81	01/10/11	12.71	1793.15	03/16/11	13.97	1791.89	
PZ-073	1760.54	07/21/10	Dry	Dry	01/10/11	Dry	Dry	03/16/11	Dry	Dry	
PZ-097	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well casing bent, could not insert pump or bailer.
PZ-098	1797.78	07/21/10	27.05	1770.73	01/11/11	24.90	1772.88	03/16/11	21.17	1776.61	
PZ-099	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well has been abandoned.
PZ-100	1870.11	07/21/10	12.12	1857.99	01/11/11	10.18	1859.93	03/16/11	10.41	1859.70	
PZ-101	1869.71	07/21/10	22.34	1847.37	01/11/11	10.08	1859.63	03/16/11	10.88	1858.83	
PZ-102	1827.78	07/21/10	60.14	1767.64	01/11/11	54.56	1773.22	03/16/11	52.34	1775.44	
PZ-103	1815.93	07/21/10	26.22	1789.71	01/11/11	25.43	1790.50	03/16/11	24.65	1791.28	
PZ-104	NA	NG	NG	NG	NG	NG	NG	03/16/11	18.61	18.61	Well damaged, casing bent.
PZ-105	1803.87	07/21/10	18.12	1785.75	01/11/11	18.36	1785.51	03/16/11	15.56	1788.31	
PZ-106	1784.17	07/21/10	17.1	1767.07	01/11/11	17.70	1766.47	03/16/11	12.62	1771.55	
PZ-107	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well damaged, casing bent.
PZ-108	1763.01	07/21/10	12.13	1750.88	01/11/11	8.80	1754.21	03/16/11	8.34	1754.67	
PZ-109	1809.51	07/21/10	14.77	1794.74	01/11/11	15.20	1794.31	03/16/11	13.90	1795.61	
PZ-110	1818.9	07/21/10	Dry	Dry	01/10/11	Dry	Dry	03/16/11	Dry	Dry	
PZ-111	1794.9	07/21/10	20.04	1774.86	01/10/11	20.15	1774.75	03/16/11	20.08	1774.82	
PZ-112	1829.14	07/21/10	28.2	1800.94	01/10/11	27.75	1801.39	03/16/11	24.07	1805.07	
PZ-113	1823.68	07/21/10	16.72	1806.96	01/10/11	8.32	1815.36	03/16/11	10.10	1813.58	
PZ-114	1818.19	07/21/10	49.74	1768.45	01/10/11	50.30	1767.89	03/16/11	49.77	1768.42	
PZ-115	NA	NG	NG	NG	NG	NG	NG	NG	NG	NG	Well casing melted during fire.
PZ-116	1827.78	07/21/10	Dry	Dry	01/10/11	Dry	Dry	03/16/11	27.41	1800.37	
PZ-120	1810.96	07/21/10	16.9	1794.06	01/10/11	14.75	1796.21	03/16/11	13.30	1797.66	
PZ-121	1808.98	07/21/10	18.5	1790.48	01/10/11	19.60	1789.38	03/16/11	18.05	1790.93	
PZ-122	1810.8	07/21/10	16.31	1794.49	01/10/11	11.75	1799.05	03/16/11	11.70	1799.10	
PZ-124	1764.11	07/21/10	27.94	1736.17	01/11/11	27.92	1736.19	03/16/11	26.60	1737.51	
PZ-143	1849.84	07/21/10	Dry	Dry	01/10/11	Dry	Dry	03/16/11	Dry	Dry	
PZ-150	1852.23	07/21/10	25.72	1826.51	01/10/11	18.82	1833.41	03/16/11	19.05	1833.18	
PZ-151	1862.6	07/21/10	78.53	1784.07	01/10/11	77.61	1784.99	03/16/11	77.79	1784.81	

Table B.1
Well Gauging Data
Groundwater Sampling

Well Identification	Measuring Point Elevation (ft above MSL)	July 2010 Gauging Event			January 2011 Gauging Event			March 2011 Gauging Event			Comments
		Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	Date Gauged	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)	
PZ-160	1851.41	07/21/10	26.13	1825.28	01/10/11	29.02	1822.39	03/16/11	24.57	1826.84	
PZ-161	1852.23	07/21/10	25.07	1827.16	01/10/11	27.80	1824.43	03/16/11	24.51	1827.72	
ES-31	1787.01	07/21/10	15.9	1771.11	01/10/11	10.21	1776.80	03/16/11	9.92	1777.09	
WS-07	1826.19	07/21/10	58.65	1767.54	01/10/11	58.91	1767.28	03/16/11	55.44	1770.75	
OS-2	1237.01	NG	NG	NG	01/10/11	Flowing	NG	NG	NG	NG	Artesian well, water flowing at the surface.
OS-03	1298.15	NG	NG	NG	01/10/11	Flowing	NG	NG	NG	NG	Artesian well, water flowing at the surface.
OS-04	1334	NG	NG	NG	01/10/11	Flowing	NG	NG	NG	NG	Artesian well, water flowing at the surface.
OS-05	NA	NG	NG	NG	01/10/11	Flowing	NG	NG	NG	NG	Artesian well, water flowing at the surface.
OS-9	NA	NG	NG	NG	01/10/11	Flowing	NG	NG	NG	NG	Artesian well, water flowing at the surface.
RD-59A	1340.5	NG	NG	NG	01/10/11	28.23	1312.27	NG	NG	NG	
RD-59B	1342.49	NG	NG	NG	01/10/11	NA	NG	NG	NG	NG	Well capped - pressure gauge 17.5 psi.
RD-59C	1345.41	NG	NG	NG	01/10/11	NA	NG	NG	NG	NG	Well capped - pressure gauge 17.5 psi.
RD-68A	1307.64	NG	NG	NG	01/10/11	NA	NG	NG	NG	NG	Well capped - pressure gauge 4.0 psi.
RD-68B	1312.44	NG	NG	NG	01/10/11	NA	NG	NG	NG	NG	Well capped - pressure gauge 2.0 psi.
WS-09A	1647.61	NG	NG	NG	01/10/11	23.10	1624.51	NG	NG	NG	Flow meter - 33 gallons per minute.

Notes:

Shaded rows indicate wells that have been abandoned or damaged and could not be sampled.

ft - feet

FLUTe™ - Flexible Liner Underground Technologies

GW - groundwater

MSL - mean sea level

NA - Not applicable

NG - Not gauged

psi - pounds per square inch

TOC - top of casing

SSFL Area IV Study Area Gauging Event Data Sheet TSW 7/21/10

Well ID	DTW	DTB	Date	Time	Comments
RD-93	34.58	60.00	7/21/10	0755	
RD-87	46.70	60.00	7/21/10	0800	
~~RD-95~~	~~52.71~~		~~7/21/10~~	~~0815~~	TSW
RD-90	32.92	125.00	7/21/10	0816	
RD-89	26.09	—	7/21/10	0833	Well damaged - Bentonite on the end of probe. Could not get total depth
RD-95	52.71	80.00	7/21/10	0835	
RD-94	17.11	35.00	7/21/10	0852	
PZ-106	17.10	35.00	7/21/10	0856	
RS-11	16.55	17.50	7/21/10	0910	
ES-31	15.90	25.00	7/21/10	0917	
PZ-110	DRY	20.10	7/21/10	0928	2" well - DRY
PZ-111	20.04	20.30	7/21/10	0943	DRY
PZ-052	24.03	31.34	7/21/10	0950	2" well
RD-16	47.42	220.00	7/21/10	0958	well w/ 2" opening and 1" gauging tube
RS-24	DRY	8.45	7/21/10	1002	DRY
PZ-113	16.72	17.02	7/21/10	1009	~~DRY~~ TSW Very little water
PZ-055	32.07	32.35	7/21/10	1016	~~DRY~~ TSW Very little water
RD-86	35.81	80.00	7/21/10	1033	
RD-85	59.20	90.00	7/21/10	1038	
RD-19	76.40	135.00	7/21/10	1047	
RD-34c	10.73	450.00	7/21/10	1102	
RD-96	59.95	90.00	7/21/10	1112	
PZ-124	27.94	28.33	7/21/10	1127	DRY: Access by going E then N, then W
RD-33c	284.05	520.00	7/21/10	1145	
RD-13	63.09	160.00	7/21/10	1155	

SSFL Area IV Study Area Gauging Event Data Sheet

TBW 7/21/10

Well ID	DTW	DTB	Date	Time	Comments
RS-27	DRY	9.87	7/21/10	1231	DRY
RD-29	15.33	100.00	7/21/10	1234	
PZ-122	16.31	27.50	7/21/10	1238	
PZ-120	16.90	26.00	7/21/10	1241	
RD-24	39.13	150.00	7/21/10	1252	
PZ-109	14.77	36.50	7/21/10	1302	
PZ-005	17.65	45.00	7/21/10	1306	
RD-20	43.66	127.00	7/21/10	1311	
RS-16	DRY	19.11	7/21/10	1318	DRY
RD-74	DRY	101.00	7/21/10	1326	Well damaged - Blockage @ 70.61 ft
RD-97	DRY	74.50	7/21/10	1335	DRY
RD-17	28.90	125.00	7/21/10	1346	
RD-27	52.44	150.00	7/21/10	1400	RMHF
PZ-121	18.50	33.00	7/21/10	1409	
PZ-108	12.13	30.00	7/21/10	1416	
PZ-041	12.17	29.60	7/21/10	1422	
PZ-160	26.13	29.58	7/21/10	1431	
PZ-161	25.07	30.07	7/21/10	1436	4" Well
PZ-150	25.72	30.48	7/21/10	1440	
RS-25	14.54	16.00	7/21/10	1446	
RD-98	39.41	65.00	7/21/10	1455	8" Metal Casing
WS-07	58.65	700.00	7/21/10	1503	

SSFL Area IV Study Area Gauging Event Data Sheet TBW 7/21/10

Well ID	DTW	DTB	Date	Time *1	Comments
RD-14	82.58	125.00	7/21/10		
RD-18	91.15	240.00	7/21/10		
RD-21	—	FLUTe	7/21/10		FLUTe Well
RD-22	—	FLUTe	7/21/10		FLUTe Well
RD-23	—	FLUTe	7/21/10		FLUTe Well
RD-33B	282.87	415.00	7/21/10		
RD-34A	39.66	60.00	7/21/10		
RD-34B	42.51	240.00	7/21/10		
RD-56A	317.51	397.50	7/21/10		
RD-56B	174.25	463.00	7/21/10		
RD-63	22.10	230.00	7/21/10		
RD-64	—	FLUTe	7/21/10		FLUTe Well
RD-70	144.51	278.00	7/21/10		
RD-88	26.09	30.00	7/21/10		
PZ-073	DRY	55.00	7/21/10		DRY
PZ-116	DRY	34.00	7/21/10		DRY
PZ-151	78.53	79.94	7/21/10		
RD-07	—	FLUTe	7/21/10		FLUTE Well
RD-33A	—	FLUTe	7/21/10		FLUTe Well
RD-50	—	FLUTe	7/21/10		FLUTe Well
RD-54A	—	FLUTe	7/21/10		FLUTe Well
RD-57	—	FLUTe	7/21/10		FLUTe Well
RD-65	—	FLUTe	7/21/10		FLUTe Well

*1 - These wells were gauged by MWH/Blaine Tech - No gauging time was provided

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	DTB	Date	Time	Comments
PZ-101	22.34	23.21	7/21/10	07:41	Good
PZ-100	12.12	19.32	7/21/10	07:50	Good
RD-91	48.54	140	7/21/10	08:06	Good
PZ-102	60.14	60.70	7-21-10	0820	Good
PZ-103	26.22	37.65	7-21-10	0832	Good
PZ-105	18.12	30.33	7-21-10	0839	Good
RD-54C	229.45	680.0	7-21-10	0851	Good
RS-54	33.87	39.5	7-21-10	0856	Good
RD-54B	246.03	~~478.0~~ 437.	7-21-10	0901	No lock
RS-18	11.80	13.15	7-21-10	0911	Dedicated Bailer
PZ-098	27.05	37.74	7-21-10	0916	Good
RS-23	Dry	14.62	7-21-10	0947	Good
PZ-112	28.20	37.06	7-21-10	0955	Good
RD-92	60.88	105	7-21-10	1003	Good
RD-15	49.78	152.0	7-21-10	10:10	Good
PZ-056	30.05	30.35	7-21-10	1017	Good
PZ-114	49.74	50.35	7-21-10	1029	Good

LS

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
WS-09A	23.10	—	1/10/11	0856	Flowmeter says pump Running @ 33 gal/min Well is near RS-13 & 20.73

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
OS-2	Flowing	—	1-10-11	0900	—
OS-9	Flowing	—	1-10-11	0925	—
RD-68B	—	—	1-10-11	0940	Pipe broken and spewing water ~~-psi-2~~ cs ~~psi-4~~ cs 2 psi
RD-68A	—	—	1-10-11	0945	~~2~~ cs 4 psi
RD-59B	—	—	1-10-11	1245	17.5 psi
RD-59C	—	—	1-10-11	1248	17 psi
RD-59A	28.23	~~28.25~~ cs	1-10-11	1252	Locked well
OS-04	Flowing	—	1-10-11	1303	½ gal/min flow rate
OS-03	Flowing	—	1-10-11	1305	—
OS-05	Flowing	—	1-10-11	1306	—

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
RD-70	143.22	—	1/10/11	0839	PID = 0.0 ppm
PZ-143	Dry	67.32	1/10/11	0849	PID = 0.0
~~PZ-141~~	~~18.02~~	—	~~1/10/11~~	~~0857~~	~~PID = 0.0~~ not EPA
PZ-151	77.61	79.62	1/10/11	0908	PID = 0.0
WS-07	58.91	—	1/10/11	0918	PID = 0.0
RD-14	82.88	—	1/10/11	0924	PID = 0.0
RD-56A	318.90	—	1/10/11	0931	PID = 0.0
RD-56B	173.89	—	1/10/11	0936	PID = 0.0
PZ-073	Dry	53.16	1/10/11	0941	PID = 0.0
PZ-114	50.30	50.41	1/10/11	1011	PID = 0.0 casing is slightly dented - unable to get bailer back into casing
RD-15	50.48	—	1/10/11	1028	PID = 0.0
PZ-056	12.71	33.39	1/10/11	1035	PID = 0.0
RD-18	92.41	—	1/10/11	1049	PID = 0.0
RD-86	38.24	—	1/10/11	1052	PID = 0.0
PZ-160	29.02	29.55	1/10/11	1058	PID = 0.0 few wasps in well casing (careful) monument
PZ-161	27.80	30.05	1/10/11	1102	PID = 0.0 numerous wasps in well casing monument
RD-85	59.01	—	1/10/11	1105	PID = 0.0
PZ ~~RS~~-150	18.82	30.45	1/10/11	1108	PID = 0.0 numerous wasps in monument casing
RS-25	12.95	14.90	1/10/11	1120	PID = 0.0
RD-19	63.18	—	1/10/11	1127	PID = 0.0
RD-98	36.98	—	1/10/11	1136	PID = 0.0
RD-92	60.41	—	1/10/11	1151	PID = 0.0
PZ-113	8.32	17.02	1/10/11	1203	PID = 0.0
PZ-055	32.16	32.39	1/10/11	1216	PID = 0.0
PZ-112	27.75	37.07	1/10/11	1228	PID = 0.0
PZ-110	Dry	20.10	1/10/11	1234	PID = 0.0
PZ-111	20.15	20.30	1/10/11	1238	PID = 0.0
RS-24	~~8.07~~ Dry	8.47	1/10/11	1244	PID = 0.0
RD-16	46.31	—	1/10/11	1246	PID = 0.0
PZ-052	23.75	31.36	1/10/11	1252	PID = 0.0
	10.21	—	1/10/11	1258	PID = 0.0

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
RS-11	14.63	17.77	1/10/11	1304	PID = 0.0 ppm
PZ-041	12.92	28.59	1/10/11	1313	PID = 0.0 ppm (no lid to well - only cap)
RD-17	28.06	—	1/10/11	1321	PID = 0.0 ppm
RD-27	52.70	—	1/10/11	1328	PID = 0.0
RD-87	47.08	61.48	1/10/11	1347	PID = 0.0 (TD = 61.48)
RD-90	31.83	125.82	1/10/11	1353	PID = 0.0 (TD = 125.82)
RD-88	22.63	31.79	1/10/11	1400	PID = 0.0 (well covered in red ants)
RD-94	16.89	30.93	1/10/11	1408	PID = 0.0
RD-34C	12.58	—	1/10/11	1415	PID = 0.0
PZ-116	Dry 34.71	34.71	1/10/11	1417	PID = 0.0 (well dry) no cap on well
RD-34A	43.52	—	1/10/11	1423	PID = 0.0
RD-34B	46.72	—	1/10/11	1426	PID = 0.0
RD-63	—	—	1/10/11	1437	PID = 0.0 (outside well casing) / unable to get lock off - Drew lessen will come back at a later time to gauge well.
RD-89	41.96	53.18	1/10/11	1451	PID = 0.0
RD-93	30.68	57.45	1/10/11	1459	PID = 0.0
PZ-121	19.60	—	1/10/11	1509	PID = 0.0 well vault full of water
RD-95	53.49	80.24	1/10/11	1517	PID = 0.0
RD-24	39.25	—	1/10/11	1524	PID = 0.0 no bolts on vault lid
PZ-120	14.75	27.96	1/10/11	1529	PID = 0.0
PZ-122	11.75	28.32	1/10/11	1535	PID = 0.0
RD-29	11.39	—	1/10/11	1538	PID = 0.0
RS-27	9.05	9.86	1/10/11	1542	PID = 0.0

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
PZ-108	8.80	26.15	1/11/11	0711	PID=0.0
PZ-109	15.20	35.29	1/11/11	0719	PID=0.0
RD-07	—	—	1/11/11	0728	FLUTe well PID=0.0 (well vault)
RS-16	Dry	22.12	1/11/11	0730	PID=0.0
RD-74	30.58	—	1/11/11	0733	PID=0.0
PZ-124	27.92	28.29	1/11/11	0736	PID=0.0
RD-96	62.91	87.29	1/11/11	0743	PID=0.0
RD-97	51.63	73.70	1/11/11	0748	PID=0.0
RD-20	44.12	—	1/11/11	0803	PID=0.0
RD-91	60.82	—	1/11/11	0808	PID=0.0
PZ-102	54.56	60.88	1/11/11	0814	PID=0.0
PZ-103	25.43	37.70	1/11/11	0823	PID=0.0
PZ-005	16.27	26.00	1/11/11	0830	well casing stands w/16" above well vault – only cap on well (casing exposed to air) PID=0.0
PZ-106	17.70	31.23	1/11/11	0836	PID=0.0
PZ-105	18.36	30.39	1/11/11	0842	PID=0.0
RD-13	64.73	—	1/11/11	0849	PID=0.0
RS-23	14.52	14.62	1/11/11	0857	PID=0.0
RD-54C	228.42	—	1/11/11	0906	PID=0.0
RD-54A	—	—	1/11/11	~~0905~~	FLUTe well
RS-54	22.68	—	1/11/11	0908	PID=0.0
RD-54B	247.11	—	1/11/11	0910	no lock on well lid / lid broken – not attached PID=0.0
RS-18	5.82	14.22	1/11/11	0918	PID=0.0
PZ-098	24.90	37.87	1/11/11	0922	PID=0.0
PZ-101	10.08	23.22	1/11/11	0930	PID=0.0
PZ-100	10.18	19.33	1/11/11	0936	PID=0.0 (DTW = 10.18)
RD-33C	283.42	—	1/11/11	0944	PID=0.0
RD-33B	281.99	—	1/11/11	0949	PID=0.0
PZ-097	Dry	46.10	1/11/11	0958	PID=0.0

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
PZ ~~RD~~ 97	n/a	45.88	3-16-11	0838	Well is dry
RD-57	—	—	3-16-11	0844	Flute Well (not able to gauge)
RD-33B	281.44	—	3-16-11	0853	Dedicated pump in way of getting TD
RD-33C	282.94	—	3-16-11	0858	" "
PZ-100	10.41	19.34	3-16-11	0914	—
PZ-101	10.88	23.21	3-16-11	0919	—
RS-54	19.37	—	3-16-11	0938	Dedicated pump in way of getting TD
RD-54C	228.23	—	3-16-11	0941	" "
RD-54B	247.03	—	3-16-11	0946	" "
RS-18	4.67	14.29	3-16-11	0955	Bailer present
PZ ~~RD~~ 98	21.17	37.88	3-16-11	1002	—
RS-23	—	14.65	3-16-11	1021	Dry
RD-13	64.34	—	3-16-11	1029	Dedicated pump in way of getting TD
RD-91	30.08	—	3-16-11	1037	" "
PZ-102	52.34	60.87	3-16-11	1048	Limited truck access
PZ-103	24.65	37.67	3-16-11	1101	—
RD-20	42.28	—	3-16-11	1109	Dedicated pump in way of getting TD
RD-97	47.26	73.60	3-16-11	1119	—
RD-96	60.17	90.06	3-16-11	1125	—
PZ-124	26.60	28.28	3-16-11	1136	—
RD-74	32.34	—	3-16-11	1142	Dedicated Pump "
RS-16	—	22.14	3-16-11	1146	Dry
PZ-005	14.76	25.96	3-16-11	1153	—
PZ-106	12.62	20.23	3-16-11	1203	—
PZ-104	18.61	30.25	3-16-11	1211	PVC pipe inside melted/deformed at top
PZ-105	15.56	30.38	3-16-11	1218	—

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
PZ-151	77.79	79.84	3/16/11	0820	
RD-14	82.56	—	3/16/11	0835	TD NA: PUMP
WS-07	55.44	—	3/16/11	0845	TD NA: PUMP
RD-15	47.30	—	3/16/11	0900	well cover dented, TD NA: PUMP
PZ-056	13.97	30.32	3/16/11	0910	dedicated tubing and bailer in well
PZ-114	49.77	50.36	3/16/11	0935	
PZ-115	NA (Dry)	40.22	3/16/11	0945	WELL DRY
RD-92	60.30	—	3/16/11	1000	TD NA: PUMP
PZ-112	24.07	37.02	3/16/11	1010	dedicated tubing in well
TP RS ~~RD-24~~ RS-24	—	8.45	3/16/11	1025	WELL DRY
RD-16	44.91	—	3/16/11	1030	TD NA: PUMP
PZ-113	10.10	17.02	3/16/11	1040	
PZ-055	32.12	32.30	3/16/11	1055	
PZ-160	24.57	29.49	3/16/11	1110	
PZ-161	24.51	30.01	3/16/11	1115	
RD-85	59.13	91.22	3/16/11	1125	dedicated bailer in well
PZ-150	19.05	30.28	3/16/11	1130	dedicated bailer in well
RS-25	13.46	14.87	3/16/11	1140	dedicated bailer in well
RD-19	74.10	—	3/16/11	1150	TD NA: PUMP
RD-86	29.43	—	3/16/11	1205	TD NA: PUMP (PUMP Pkg needs repair)
RD-18	81.72	—	3/16/11	1215	TD NA: PUMP
PZ-073	—	53.23	3/16/11	1225	WELL DRY
RD-56A	314.01	—	3/16/11	1230	TD NA: PUMP
RD-56B	170.86	—	3/16/11	1235	TD NA: PUMP
PZ-143	—	67.27	3/16/11	1245	WELL DRY
RD-70	141.28	—	3/16/11	1255	TD NA: PUMP

SSFL Area IV Study Area Gauging Event Data Sheet

Well ID	DTW	Total Depth	Date	Time	Comments
RD-17	26.50	N/A	3-16-10	0833	Unable to get total depth due to ded. pump
P2-110	—	20.12	"	0840	Dry well
P2-111	20.08	20.~~0~~32	"	0842	
P2-052	21.60	31.35	"	0846	
P2-051	N/A	N/A	"	0850	Unable to gauge due to transducer in well / Bent casing
RD-27	50.37	N/A	"	0905	RMHF / Unable to get total depth due to pump
ES-31	9.92	N/A	"	0938	
P2-107	13.34	13.34	"	0942	Dry well / Casing Bent
RS-11	11.10	17.74	"	0945	4" Bailer in well
P2-041	7.68	28.58	"	0955	Flush mount / No well lid
P2-108	8.34	26.13	"	1002	Flush mount
P2-122	11.70	28.35	"	1010	
RD-29	11.09	N/A	"	1015	Unable to get total depth due to pump
RS-27	8.99	9.84	"	1017	
P2-120	13.30	28.04	"	1025	
P2-109	13.90	35.27	"	1031	Flush mount
RD-24	38.00	N/A	"	1038	Unable to get total depth due to pump
RD-95	52.58	80.18	"	1042	4" Bailer in well
RD-93	33.43	N/A	"	1052	4" Bailer in well / Unable to determine TD Probe sticks
RD-89	39.72	42.83	"	1100	4" Bailer in well
P2-121	18.05	24.63	"	1107	
RD-98	32.83	65.78	"	1120	
RD-90	30.88	N/A	"	1132	Unable to get total depth probe stick on side
RD-88	22.47	N/A	"	1138	4" Bailer in well / probe sticking unable to get TD
RD-87	45.73	N/A	"	1143	4" Bailer in well / pump in well, unable to get TD
RD-94	13.23	N/A	"	1147	
P2-116	27.41	34.64	"	1155	
RD-34C	10.43	N/A	"	1200	Unable to get TD due to pump
RD-34A	34.16	N/A	"	1203	Unable to get TD due to pump.
RD-63	17.70	N/A	"	1210	Unable to get TD due to pump.
RD-34B	38.80	N/A	"	1217	Unable to get TD due to pump.

APPENDIX C

MONITORING WELL CONSTRUCTION SUMMARY

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Table C.1
Monitoring Well Construction Summary
Groundwater Sampling

Well Identification	Northing[1]	Easting[1]	Date Drilled	Casing Interval (feet)	Casing Diameter (inches)	Total Well Depth (feet bgs)	Measuring Point Elevation (feet amsl)	Screened Interval (feet bgs)	Sand Interval (feet bgs)	Bentonite Interval (feet bgs)	Grout Interval (feet bgs)	Concrete Interval (feet bgs)	Formation	Comments
ES-31	266692.4	1785729.5	1/29/1987	0-25	6	25	1787.01	11.6-25	--	--	--	--	Shallow well	
OS-02	--	--	3/18/1959	0-17	10	700	1237.01	Open hole	--	--	--	--	--	
OS-03	--	--	6/12/1950	0-59	8.25	100	1298.15	30-60/Open hole	--	--	--	--	--	
OS-04	--	--	--	--	--	--	1334	--	--	--	--	--	--	Well construction data not available.
OS-5	--	--	--	--	--	--	--	--	--	--	--	--	--	Well construction data not available, well dry during Phase II.
OS-09	--	--	--	--	--	--	--	--	--	--	--	--	--	Well construction data not available.
OS-09R	--	--	--	0-408.75	1.5	398	1018.07 (well) 982.19 (Port 1)	30.75-41.88 (zone depth interval)	--	--	--	--	--	Westbay Multilevel System (Port 1)
OS-10	--	--	--	0-10	12.125	600	1016.97	Open hole	--	--	--	--	--	
OS-21	--	--	--	--	--	--	1900.39	--	--	--	--	--	--	Well construction data not available, access denied .
PZ-005	266634.9	1784877.3	11/7/2000	--	--	45	1800.97	15-25	11.5-26.5	8.5-11.5	2-8.5	0-2	Shallow well	
PZ-041	267315.8	1785662.0	1/16/2001	--	--	28.59	1809.1	19-29	17-29.6	14-17	2-14	0-2	Shallow well	
PZ-051	266485.8	1785857.0	12/14/2000	--	--	27	1770.87	5-15	3-16	2-3	--	0-2	Shallow well	Well abandoned/damaged.
PZ-052	266742.1	1786103.7	12/15/2000	--	--	30	1790.72	18.9-28.9	17-30	14-17	2-14	0-2	Shallow well	
PZ-055	267253.6	1787421.3	1/2/2001	--	--	29.5	1818.4	19-29	17-29.5	14-17	2-14	0-2	Shallow well	Well dry during Phase I.
PZ-056	268068.7	1788028.0	12/19/2000	--	--	28	1805.86	17-27	13-28	10-13	2-10	0-2	Shallow well	
PZ-073	269435.8	1788107.5	1/3/2001	---	---	55	1760.54	41-51	35-55	30.5-35	2-30.5	0-2	Shallow well	Well dry during Phase I and Phase II.
PZ-097	267048.9	1783400.3	10/15/2001	---	---	44.5	1761.87	33-43	31-44.5	11.5-28	2-11.5	0-2	Shallow well	Well abandoned/damaged.
PZ-098	266788.9	1783488.8	10/16/2001	---	---	37.5	1797.78	24-34	21.5-37.5	19-21.5	2-19	0-2	Shallow well	
PZ-099	266508.7	1783141.0	10/17/2001			33	1819.57	16-33	13.5-16	12-13.5	--	--	Shallow well	Well abandoned.
PZ-100	266078.3	1782962.2	10/17/2001	---	---	19.33	1870.11	5.67-15.67	4.67-16.5	2-4.67	--	0-2	Shallow well	
PZ-101	266057.5	1783090.6	10/17/2001	---	---	27	1869.71	10-20	7-27	5-7	1.75-5	0-1.75	Shallow well	Well dry during Phase I.
PZ-102	266501.1	1783693.0	10/18/2001	---	---	59.2	1827.78	48.5-59.2	45-59.2	43-45	2-43	0-2	Shallow well	Well dry during Phase I.
PZ-103	266281.2	1784400.9	10/22/2001	--	--	39	1815.93	28.5-38.5	26-39	23.5-26	2-23.5	0-2	Shallow well	
PZ-104	266270.2	1784924.2	10/22/2001		--	38.5	1797.47	18-28	16-30	13-16	2-13	0-2	Shallow well	Well abandoned/damaged.
PZ-105	265935.5	1784787.9	10/23/2001	--	--	28	1803.87	17-27	15-28	12-15	2-12	0-2	Shallow well	
PZ-106	266411.9	1785469.6	10/23/2001	--	--	35	1784.17	18-28	16-30.5	12.75-16	2-12.75	0-2	Shallow well	
PZ-107	266876.4	1785822.0	10/24/2001	--	--	11	1793.62	5-10	4-11	2-4	--	0-2	Shallow well	Well abandoned/damaged.
PZ-108	267332.4	1785248.2	10/24/2001	--	--	30	1763.01	16-26	13-28.5	10-13	2-10	0-2	Shallow well	
PZ-109	267080.8	1784684.4	10/25/2001	--	--	36.5	1809.51	25-35	22-36.5	19-22	2-19	0-2	Shallow well	
PZ-110	267204.0	1786209.6	10/25/2001	--	--	17.5	1818.9	7-17	5-17.5	2-5	--	0-2	Shallow well	Well dry during Phase I and Phase II.
PZ-111	266948.4	1786433.9	10/26/2001	--	--	20	1794.9	7.5-17.5	5-20	--	--	--	Shallow well	Well dry during Phase I.

Table C.1
Monitoring Well Construction Summary
Groundwater Sampling

Well Identification	Northing[1]	Easting[1]	Date Drilled	Casing Interval (feet)	Casing Diameter (inches)	Total Well Depth (feet bgs)	Measuring Point Elevation (feet amsl)	Screened Interval (feet bgs)	Sand Interval (feet bgs)	Bentonite Interval (feet bgs)	Grout Interval (feet bgs)	Concrete Interval (feet bgs)	Formation	Comments
PZ-112	267435.9	1786720.8	10/26/2001	--	--	35	1829.14	24-34	22-35	19-22	2-19	0-2	Shallow well	
PZ-113	267682.9	1787367.8	10/29/2001	--	--	15	1823.68	7-15	5-15	2-5	--	0-2	Shallow well	Well dry during Phase I.
PZ-114	268304.0	1787913.1	10/30/2001	--	--	48.2	1818.19	37-47	35-48.2	32-35	2-32	0-2	Shallow well	
PZ-115	268006.8	1787536.5	10/30/2001	--	--	40	1817.81	25.5-37.5	25-40	22-25	2-22	0-2	Shallow well	Well abandoned/damaged.
PZ-116	268032.6	1785076.3	10/31/2001	---	---	34	1827.78	22-32	20-34	17-20	2-17	0-2	Shallow well	Well dry during Phase I.
PZ-120	267230.1	1785009.7	3/18/2003	--	--	26	1810.96	15-25	12-26	9-12	2-9	0-2	Shallow well	
PZ-121	267491.6	1785120.7	3/19/2003	--	--	33	1808.98	15-25	12-28	8.4-12; 28-33	1.5-8.4	0-1.5	Shallow well	
PZ-122	267091.9	1785176.5	3/19/2003	--	--	27.5	1810.8	15.5-25.5	12-27.5	9-12	2-9	0-2	Shallow well	
PZ-124	267166.7	1784015.9	3/21/2003	---	---	31	1764.11	14.7-24.7	11.3-31	8.3-11.3	1-8.3	0-1	Shallow well	Well dry during Phase I.
PZ-143	269399.5	1788800.7	--	---	2	67	1849.84	55-65	52-67	45-50; 67-75	0-45	--	Shallow well	Well dry during Phase I and Phase II.
PZ-150	268281.7	1786086.8	--	--	--	30.48	1852.23	17.5-27.5	---	---	---	---	Shallow well	
PZ-151	268743.1	1787988.8	--	--	--	79.62	---	69.5-79.5	---	---	---	---	Shallow well	
PZ-160	268345.0	1786286.1	--	--	--	29.58	1851.41	17-27	14-27	1-14	1-14	1-14	Shallow well	
PZ-161	268418.8	1786132.4	--	--	4	30.07	1852.23	18-28	15-28	1-15	1-15	1-15	Shallow well	
RD-07	266937.9	1784160.7	1/8/1986	0-25	10.125	300	1812.82	Open hole	--	--	--	--	Chatsworth	
RD-13	265809.9	1784083.7	7/25/1989	0-30	8.25	160	1840.27	Open hole	--	--	--	--	Chatsworth	
RD-14	268605.9	1787467.9	7/27/1989	0-30	8.25	125	1824.29	Open hole	--	--	--	--	Chatsworth	
RD-15	268114.6	1787805.6	7/27/1989	0-30	8.25	152	1817.7	Open hole	--	--	--	--	Chatsworth	
RD-16	267211.2	1786783.5	8/15/1989	0-30	8.25	220	1808.99	Open hole	--	--	--	--	Chatsworth	
RD-17	267668.1	1786003.5	8/10/1989	0-30	8.25	125	1836.3	Open hole	--	--	--	--	Chatsworth	
RD-18	268517.6	1786851.9	7/28/1989	0-30	8.25	240	1839.49	Open hole	--	--	--	--	Chatsworth	
RD-19	268204.7	1785783.9	7/31/1989	0-30	8.25	135	1853.13	Open hole	--	--	--	--	Chatsworth	
RD-20	266605.4	1784382.9	7/27/1989	0-30	8.25	127	1819.72	Open hole	--	--	--	--	Chatsworth	
RD-21	266053.3	1783079.8	8/11/1989	0-30	8.25	175	1866.96	Open hole	--	--	--	--	Chatsworth	
RD-22	266277.8	1782691.1	8/15/1989	0-30	8.25	440	1853.41	Open hole	--	--	--	--	Chatsworth	
RD-23	266390.8	1783122.8	8/16/1989	0-30	8.25	440	1838.19	Open hole	--	--	--	--	Chatsworth	
RD-24	267283.0	1784708.6	8/9/2009	0-30	8.25	150	1809.93	Open hole	--	--	--	--	Chatsworth	
RD-25	--	--	--	--	--	--	--	---	--	--	--	--	Chatsworth	Well abandoned/damaged.
RD-27	267977.7	1785610.5	8/10/1989	0-30	8.25	150	1841.67	Open hole	--	--	--	--	Chatsworth	
RD-28	--	--	--	--	--	--	--	---	--	--	--	--	Chatsworth	Well abandoned/damaged.
RD-29	266949.3	1785123.3	8/10/1989	0-30	8.25	100	1806.29	Open hole	--	--	--	--	Chatsworth	
RD-30	268026.0	1785319.8	8/11/1989	0-30	8.25	75	1768.69	Open hole	--	--	--	--	Chatsworth	Well capped.

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Monitoring Well Construction Summary
Groundwater Sampling

Well Identification	Northing[1]	Easting[1]	Date Drilled	Casing Interval (feet)	Casing Diameter (inches)	Total Well Depth (feet bgs)	Measuring Point Elevation (feet amsl)	Screened Interval (feet bgs)	Sand Interval (feet bgs)	Bentonite Interval (feet bgs)	Grout Interval (feet bgs)	Concrete Interval (feet bgs)	Formation	Comments
RD-33A	266547.6	1782597.6	9/27/1991	0-11	12.125	320	1792.97	Open hole	--	--	--	--	Chatsworth	
RD-33B	266546.9	1782616.8	9/27/1991	0-20	12.125	415	1793.21	Open hole	--	--	--	--	Chatsworth	
RD-33C	266547.6	1782576.7	9/21/1991	0-10	12.125	520	1793.54	Open hole	--	--	--	--	Chatsworth	
RD-34A	268046.0	1785103.3	7/25/1991	0-16	8.25	60	1761.83	Open hole	--	--	--	--	Chatsworth	
RD-34B	268058.3	1785096.2	8/11/1991	0-30	12.125	240	1762.51	Open hole	--	--	--	--	Chatsworth	
RD-34C	268035.0	1785086.8	8/10/1991	0-30	12.125	450	1762.6	Open hole	--	--	--	--	Chatsworth	
RD-50	265713.8	1783049.0	5/28/1993	0-18.5	8.25	195	1914.88	Open hole	--	--	--	--	Chatsworth	
RD-54A	266312.8	1783135.8	8/7/1993	0-19	12.125	278	1841.72	Open hole	--	--	--	--	Chatsworth	
RD-54B	266350.2	1783087.3	8/31/1993	0-19	12.125	437	1842.54	Open hole	--	--	--	--	Chatsworth	
RD-54C	266313.8	1783106.8	7/27/1993	0-20	12.125	638	1843.77	Open hole	--	--	--	--	Chatsworth	
RD-56A	269425.0	1788099.1	3/8/1994	0-20.5	12.125	397.5	1758.62	Open hole	--	--	--	--	Chatsworth	
RD-56B	269402.1	1788070.9	7/24/1997	0-10	16	463	1761.83	Open hole	--	--	--	--	Chatsworth	
RD-57	266916.2	1782949.9	2/23/1994	0-19.5	12.125	419	1774.15	Open hole	--	--	--	--	Chatsworth	
RD-59A	--	--	5/19/1994	0-21	12.125	58	1340.5	Open hole	--	--	--	--	Chatsworth	
RD-59B	--	--	7/2/1994	0-19.5; 0-209	12.125; 2	214	1342.49	178-209	--	--	--	--	Chatsworth	
RD-59C	--	--	7/2/1994	0-19; 0-397	12.125; 2	398	1345.41	345.5-397	--	--	--	--	Chatsworth	
RD-63	268029.8	1785216.8	5/10/1994	0-20	8.25	230	1764.85	Open hole	--	--	--	--	Chatsworth	
RD-64	266259.4	1782967.8	5/19/1994	0-19	8.25	398	1857.04	Open hole	--	--	--	--	Chatsworth	
RD-65	266543.7	1783268.6	8/14/1994	0-19	8.25	397	1819.14	Open hole	--	--	--	--	Chatsworth	
RD-68A	--	--	6/5/1997	0-19	12	90	1307.64	Open hole	--	--	--	--	Chatsworth	
RD-68B	--	--	6/11/1997	0-52; 0-270	12; 4	272	1312.44	240-270	--	--	--	--	Chatsworth	
RD-70	269722.5	1789696.1	6/14/1997	0-19	12	278	1732.26	Open hole	--	--	--	--	Chatsworth	
RD-74	267112.6	1784112.9	1/21/1999	0-30	12	101	1810.9	Open hole	--	--	--	--	Chatsworth	Well abandoned/damaged.
RD-85	268384.8	1786082.0	8/4/2004	0-20	8	90	1849.09	Open hole	--	--	--	--	Chatsworth	
RD-86	268480.4	1786522.8	8/9/2004	0-20	8	80	1830.51	Open hole	--	--	--	--	Chatsworth	
RD-87	267800.3	1784860.5	8/11/2004	0-20	8	60	1789.09	Open hole	--	--	--	--	Chatsworth	
RD-88	267691.4	1784770.0	8/16/2004	0-20	8	30	1774.62	Open hole	--	--	--	--	Chatsworth	
RD-89	267732.2	1785204.3	5/18/2005	0-30	8	53.18	1814.18	Open hole	--	--	--	--	Chatsworth	Well abandoned/damaged.
RD-90	267701.9	1784858.9	3/11/2004	0-20	8	125	1784.75	Open hole	--	--	--	--	Chatsworth	
RD-91	266538.2	1783945.5	3/12/2004	0-20	8	140	1818.04	0-20	--	--	--	--	Chatsworth	
RD-92	267847.1	1787222.9	3/16/2004	0-20	8	105	1833.74	Open hole	--	--	--	--	Chatsworth	

Table C.1
Monitoring Well Construction Summary
Groundwater Sampling

Well Identification	Northing[1]	Easting[1]	Date Drilled	Casing Interval (feet)	Casing Diameter (inches)	Total Well Depth (feet bgs)	Measuring Point Elevation (feet amsl)	Screened Interval (feet bgs)	Sand Interval (feet bgs)	Bentonite Interval (feet bgs)	Grout Interval (feet bgs)	Concrete Interval (feet bgs)	Formation	Comments
RD-93	267564.1	1785023.3	5/19/2005	0-20	8	57.45	1810.48	Open hole	--	--	--	--	Chatsworth	
RD-94	267743.3	1784559.8	5/15/2005	0-20.5	8	35	1744.38	Open hole	--	--	--	--	Chatsworth	
RD-95	267499.9	1784758.0	5/12/2005	0-50	8	80	1811.36	Open hole	--	--	--	--	Chatsworth	
RD-96	267385.1	1784343.7	5/3/2006	0-20	8.625	90	1805.14	Open hole	--	--	--	--	Chatsworth	
RD-97	267540.4	1784376.4	4/28/2006	0-20	8.625	74.5	1792.22	Open hole	--	--	--	--	Chatsworth	Well dry during Phase I.
RD-98	268054.1	1785567.0	6/2008	---	---	65	1808.73	---	--	--	--	--	Chatsworth	
RS-11	266864.3	1785819.5	6/10/1985	0-17.5	4	17.77	1790.39	10-17.5	--	--	--	--	Shallow well	Well dry during Phase I.
RS-16	266981.3	1784220.7	6/11/1985	0-20.5	4	20.5	1811.05	16.5-20.5	--	--	--	--	Shallow well	Well dry during Phase I.
RS-18	266661.7	1783394.0	6/12/1985	0-13	4	13	1802.86	7.5-13	--	--	--	--	Shallow well	
RS-23	265827.3	1783082.8	8/23/1988	0-13	4	13	1887.25	8-13	--	--	--	--	Shallow well	Well dry during Phase I.
RS-24	267218.8	1786806.2	8/25/1988	0-8.5	4	8.5	1809.24	4-8.5	--	--	--	--	Shallow well	Well dry during Phase I and Phase II.
RS-25	268226.7	1785922.8	8/25/1988	0-13.5	4	13.5	1862.71	8.5-13.5	--	--	--	--	Shallow well	
RS-27	266927.6	1785133.2	8/2/1988	0-9	4	9	1804.78	5-9	--	--	--	--	Shallow well	Well dry during Phase I.
RS-28	268030.1	1785310.5	8/17/1989	0-19	4	19	1786.59	14-19	--	--	--	--	Shallow well	Well capped.
RS-54	266307.6	1783111.2	8/9/1993	0-7	6.25	38	1846.66	Open hole	--	--	--	--	Shallow well	Well dry during Phase I.
WS-07	268493.2	1787829.4	5/7/1905	---	---	700	1826.19	Open hole	--	--	--	--	Chatsworth	
WS-09A	--	--	1956	0-34; 0-541; 0-539	14; 12.125; 8.25	541	1647.61	20-539	--	--	--	--	Chatsworth	

Notes:

[1]Northing and easting measured using NAD 1927 California V Plane Feet.

RD-21 was converted to a Flexible Liner Underground Techonologies™ Well 01/14/2003

-- - not available/not applicable

amsl - above mean sea level

bgs - below ground surface

APPENDIX D

RADIONUCLIDE ANALYTICAL RESULTS

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Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-031-GW082410	Ac-227	Filtered	-1.8 U	9.2	2.8	4.5
ES-31	SMES-031-GW082410	Ac-227	Suspended	-1.2 U	4.3	1.3	2.1
ES-31	SMES-031-GW082410	Ac-227	Total	-2.9	NA	3	NA
ES-31	SMES-031-GW082410	Ac-228	Filtered	4	3.8	1.2	1.8
ES-31	SMES-031-GW082410	Ac-228	Suspended	1.58	2.4	0.74	1.1
ES-31	SMES-031-GW082410	Ac-228	Total	5.6	NA	1.4	NA
ES-31	SMES-031-GW082410	Ag-108	Filtered	0.047 R	0.067	0.021	0.032
ES-31	SMES-031-GW082410	Ag-108	Suspended	0.01 U R	0.05	0.14	0.02
ES-31	SMES-031-GW082410	Ag-108	Total	0.06 R	NA	0.14	NA
ES-31	SMES-031-GW082410	Ag-108m	Filtered	0.51 R	0.72	0.22	0.34
ES-31	SMES-031-GW082410	Ag-108m	Suspended	0.13 U R	0.51	0.15	0.24
ES-31	SMES-031-GW082410	Ag-108m	Total	0.64 R	NA	0.27	NA
ES-31	SMES-031-GW082410	Ba-133	Filtered	4.9 U R	11	3.4	5.5
ES-31	SMES-031-GW082410	Ba-133	Suspended	1.6 U R	6	1.8	2.9
ES-31	SMES-031-GW082410	Ba-133	Total	6.5 R	NA	3.9	NA
ES-31	SMES-031-GW082410	Ba-137m	Filtered	0.0003 U	1.1	0.33	0.55
ES-31	SMES-031-GW082410	Ba-137m	Suspended	0.21 U	0.64	0.19	0.31
ES-31	SMES-031-GW082410	Ba-137m	Total	0.21	NA	0.38	NA
ES-31	SMES-031-GW082410	Bi-212	Filtered	-2.1 U	11	6.5	5.4
ES-31	SMES-031-GW082410	Bi-212	Suspended	1.5 U	6.3	1.9	3
ES-31	SMES-031-GW082410	Bi-212	Total	-0.6	NA	6.7	NA
ES-31	SMES-031-GW082410	Bi-214	Filtered	1.78	2.7	0.89	1.3
ES-31	SMES-031-GW082410	Bi-214	Suspended	1.56	1.6	0.66	0.79
ES-31	SMES-031-GW082410	Bi-214	Total	3.3	NA	1.1	NA
ES-31	SMES-031-GW082410	Cd-113m	Filtered	700 U	14000	4000	6600
ES-31	SMES-031-GW082410	Cd-113m	Suspended	-70 U	7000	2100	3400
ES-31	SMES-031-GW082410	Cd-113m	Total	600	NA	4500	NA
ES-31	SMES-031-GW082410	Cf-249	Filtered	0.5 U R	5.7	1.7	2.7
ES-31	SMES-031-GW082410	Cf-249	Suspended	0.61 U R	2.8	0.83	1.4
ES-31	SMES-031-GW082410	Cf-249	Total	1.1 R	NA	1.9	NA
ES-31	SMES-031-GW082410	Co-60	Filtered	-0.04 U	1.2	0.34	0.56
ES-31	SMES-031-GW082410	Co-60	Suspended	-0.09 U	0.76	0.22	0.35
ES-31	SMES-031-GW082410	Co-60	Total	-0.13	NA	0.4	NA
ES-31	SMES-031-GW082410	Cs-134	Filtered	0.12 U	1.2	0.36	0.59
ES-31	SMES-031-GW082410	Cs-134	Suspended	-0.26 U	0.81	0.24	0.39
ES-31	SMES-031-GW082410	Cs-134	Total	-0.14	NA	0.44	NA
ES-31	SMES-031-GW082410	Cs-137	Filtered	0.0003 U	1.2	0.35	0.58
ES-31	SMES-031-GW082410	Cs-137	Suspended	0.22 U	0.68	0.2	0.32

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-031-GW082410	Cs-137	Total	0.22	NA	0.4	NA
ES-31	SMES-031-GW082410	Eu-152	Filtered	1.23 U	3	0.9	1.4
ES-31	SMES-031-GW082410	Eu-152	Suspended	-0.33 U	1.8	0.54	0.87
ES-31	SMES-031-GW082410	Eu-152	Total	0.9	NA	1.1	NA
ES-31	SMES-031-GW082410	Eu-154	Filtered	0.8 U	9.7	2.8	4.6
ES-31	SMES-031-GW082410	Eu-154	Suspended	-0.4 U	5.4	1.5	2.5
ES-31	SMES-031-GW082410	Eu-154	Total	0.3	NA	3.2	NA
ES-31	SMES-031-GW082410	Eu-155	Filtered	-1.15 U	3.2	0.96	1.6
ES-31	SMES-031-GW082410	Eu-155	Suspended	0.29 U	1.1	0.34	0.55
ES-31	SMES-031-GW082410	Eu-155	Total	-0.9	NA	1	NA
ES-31	SMES-031-GW082410	gross_alpha	Filtered	5.32	0.55	0.51	0.29
ES-31	SMES-031-GW082410	gross_alpha	Suspended	1.52	0.67	0.32	0.35
ES-31	SMES-031-GW082410	gross_alpha	Total	6.84	NA	0.6	NA
ES-31	SMES-031-GW082410	gross_beta	Filtered	3.94	2	0.77	1.2
ES-31	SMES-031-GW082410	gross_beta	Suspended	2.19	1	0.4	0.61
ES-31	SMES-031-GW082410	gross_beta	Total	6.13	NA	0.87	NA
ES-31	SMES-031-GW082410	H-3	Filtered	88	130	40	64
ES-31	SMES-031-GW082410	H-3	Suspended	1.5 U	14	4	6.2
ES-31	SMES-031-GW082410	H-3	Total	89	NA	40	NA
ES-31	SMES-031-GW082410	Ho-166m	Filtered	-0.58 U	1.8	0.53	0.84
ES-31	SMES-031-GW082410	Ho-166m	Suspended	-0.001 U	0.85	0.24	0.4
ES-31	SMES-031-GW082410	Ho-166m	Total	-0.58	NA	0.58	NA
ES-31	SMES-031-GW082410	K-40	Filtered	14.1	23	6.8	11
ES-31	SMES-031-GW082410	K-40	Suspended	13.6	9.6	3.4	4.5
ES-31	SMES-031-GW082410	K-40	Total	27.7	NA	7.6	NA
ES-31	SMES-031-GW082410	Na-22	Filtered	0.06 U	1	0.3	0.48
ES-31	SMES-031-GW082410	Na-22	Suspended	0.001 U	0.75	0.21	0.35
ES-31	SMES-031-GW082410	Na-22	Total	0.06	NA	0.36	NA
ES-31	SMES-031-GW082410	Nb-94	Filtered	0.53	1	0.31	0.48
ES-31	SMES-031-GW082410	Nb-94	Suspended	0 U	0.74	0.22	0.36
ES-31	SMES-031-GW082410	Nb-94	Total	0.53	NA	0.38	NA
ES-31	SMES-031-GW082410	Np-236	Filtered	-0.07 U	2.9	0.86	1.4
ES-31	SMES-031-GW082410	Np-236	Suspended	0.6	0.99	0.3	0.48
ES-31	SMES-031-GW082410	Np-236	Total	0.53	NA	0.91	NA
ES-31	SMES-031-GW082410	Np-239	Filtered	-1.8 U	7.6	2.3	3.7
ES-31	SMES-031-GW082410	Np-239	Suspended	-0.5 U	3.9	1.1	1.9
ES-31	SMES-031-GW082410	Np-239	Total	-2.3	NA	2.5	NA
ES-31	SMES-031-GW082410	Pa-231	Filtered	-4 U	53	16	26

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-031-GW082410	Pa-231	Suspended	1.8 U	26	7.8	13
ES-31	SMES-031-GW082410	Pa-231	Total	-2	NA	18	NA
ES-31	SMES-031-GW082410	Pb-212	Filtered	1.1 U	2.7	0.9	1.3
ES-31	SMES-031-GW082410	Pb-212	Suspended	0.79	1.1	0.36	0.56
ES-31	SMES-031-GW082410	Pb-212	Total	1.89	NA	0.97	NA
ES-31	SMES-031-GW082410	Pb-214	Filtered	0.31 U	2.5	0.82	1.2
ES-31	SMES-031-GW082410	Pb-214	Suspended	-0.02 U	1.5	0.41	0.74
ES-31	SMES-031-GW082410	Pb-214	Total	0.29	NA	0.92	NA
ES-31	SMES-031-GW082410	Sb-125	Filtered	0.1 U	14	4.1	6.8
ES-31	SMES-031-GW082410	Sb-125	Suspended	0.7 U	6	1.8	2.9
ES-31	SMES-031-GW082410	Sb-125	Total	0.9	NA	4.5	NA
ES-31	SMES-031-GW082410	Sn-126	Filtered	-0.38 U	1.3	0.4	0.63
ES-31	SMES-031-GW082410	Sn-126	Suspended	0.26 U	0.79	0.24	0.38
ES-31	SMES-031-GW082410	Sn-126	Total	-0.12	NA	0.46	NA
ES-31	SMES-031-GW082410	Sr-90	Filtered	0.089 U	0.21	0.062	0.12
ES-31	SMES-031-GW082410	Sr-90	Suspended	-0.003 U	0.16	0.045	0.095
ES-31	SMES-031-GW082410	Sr-90	Total	0.086	NA	0.077	NA
ES-31	SMES-031-GW082410	Te-125m	Filtered	0.03 U	3.2	0.95	1.6
ES-31	SMES-031-GW082410	Te-125m	Suspended	0.17 U	1.4	0.41	0.67
ES-31	SMES-031-GW082410	Te-125m	Total	0.2	NA	1	NA
ES-31	SMES-031-GW082410	Th-231	Filtered	0.126	0.038	0.029	0.013
ES-31	SMES-031-GW082410	Th-231	Suspended	0 U	0.017	0.0023	0.0088
ES-31	SMES-031-GW082410	Th-231	Total	0.126	NA	0.029	NA
ES-31	SMES-031-GW082410	Th-234	Filtered	4.3 U	21	6.7	10
ES-31	SMES-031-GW082410	Th-234	Suspended	1.5 U	7.6	2.6	3.7
ES-31	SMES-031-GW082410	Th-234	Total	5.8	NA	7.1	NA
ES-31	SMES-031-GW082410	Tl-208	Filtered	0.22 U	1.4	0.4	0.69
ES-31	SMES-031-GW082410	Tl-208	Suspended	0.62	0.84	0.33	0.4
ES-31	SMES-031-GW082410	Tl-208	Total	0.84	NA	0.52	NA
ES-31	SMES-031-GW082410	Tm-171	Filtered	-170 U	410	130	200
ES-31	SMES-031-GW082410	Tm-171	Suspended	-6 U	130	39	64
ES-31	SMES-031-GW082410	Tm-171	Total	-180	NA	130	NA
ES-31	SMES-031-GW082410	U-233/234	Filtered	2.95	0.03	0.17	0.01
ES-31	SMES-031-GW082410	U-233/234	Suspended	0.031	0.04	0.016	0.016
ES-31	SMES-031-GW082410	U-233/234	Total	2.98	NA	0.17	NA
ES-31	SMES-031-GW082410	U-235/236	Filtered	0.126	0.038	0.029	0.013
ES-31	SMES-031-GW082410	U-235/236	Suspended	0 U	0.017	0.0023	0.0088
ES-31	SMES-031-GW082410	U-235/236	Total	0.126	NA	0.029	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-031-GW082410	U-238	Filtered	2.73	0.01	0.16	0.007
ES-31	SMES-031-GW082410	U-238	Suspended	0.019	0.03	0.012	0.01
ES-31	SMES-031-GW082410	U-238	Total	2.75	NA	0.16	NA
PZ-005	SMPZ-005-GW083010	Ac-227	Filtered	0.2 U	13	3.9	6.4
PZ-005	SMPZ-005-GW083010	Ac-227	Suspended	-1.4 U	4	1.2	1.9
PZ-005	SMPZ-005-GW083010	Ac-227	Total	-1.2	NA	4.1	NA
PZ-005	SMPZ-005-GW083010	Ac-228	Filtered	3.2	4.1	1.3	1.9
PZ-005	SMPZ-005-GW083010	Ac-228	Suspended	-0.7 U	3	1.1	1.4
PZ-005	SMPZ-005-GW083010	Ac-228	Total	2.5	NA	1.7	NA
PZ-005	SMPZ-005-GW083010	Ag-108	Filtered	-0.018 U R	0.097	0.029	0.047
PZ-005	SMPZ-005-GW083010	Ag-108	Suspended	0.006 U R	0.052	0.015	0.025
PZ-005	SMPZ-005-GW083010	Ag-108	Total	-0.012 R	NA	0.033	NA
PZ-005	SMPZ-005-GW083010	Ag-108m	Filtered	-0.19 U R	1	0.31	0.5
PZ-005	SMPZ-005-GW083010	Ag-108m	Suspended	0.07 U R	0.56	0.17	0.27
PZ-005	SMPZ-005-GW083010	Ag-108m	Total	-0.12 R	NA	0.35	NA
PZ-005	SMPZ-005-GW083010	Ba-133	Filtered	2.7 U R	12	3.7	5.9
PZ-005	SMPZ-005-GW083010	Ba-133	Suspended	-0.9 U R	6.5	1.9	3.2
PZ-005	SMPZ-005-GW083010	Ba-133	Total	1.8 R	NA	4.1	NA
PZ-005	SMPZ-005-GW083010	Ba-137m	Filtered	0 U	1.2	0.36	0.59
PZ-005	SMPZ-005-GW083010	Ba-137m	Suspended	-0.07 U	0.63	0.18	0.3
PZ-005	SMPZ-005-GW083010	Ba-137m	Total	-0.07	NA	0.4	NA
PZ-005	SMPZ-005-GW083010	Bi-212	Filtered	-5 U	10	110	7
PZ-005	SMPZ-005-GW083010	Bi-212	Suspended	2.9	5.9	1.8	2.8
PZ-005	SMPZ-005-GW083010	Bi-212	Total	-3	NA	110	NA
PZ-005	SMPZ-005-GW083010	Bi-214	Filtered	5.6	2.9	1.2	1.4
PZ-005	SMPZ-005-GW083010	Bi-214	Suspended	1.64	1.7	0.62	0.81
PZ-005	SMPZ-005-GW083010	Bi-214	Total	7.2	NA	1.3	NA
PZ-005	SMPZ-005-GW083010	Cd-113m	Filtered	1000 U	15000	4400	7300
PZ-005	SMPZ-005-GW083010	Cd-113m	Suspended	-2400 U	7600	2300	3700
PZ-005	SMPZ-005-GW083010	Cd-113m	Total	-1400	NA	5000	NA
PZ-005	SMPZ-005-GW083010	Cf-249	Filtered	0.2 U R	5.8	1.7	2.8
PZ-005	SMPZ-005-GW083010	Cf-249	Suspended	0.67 U R	3	0.89	1.4
PZ-005	SMPZ-005-GW083010	Cf-249	Total	0.9 R	NA	1.9	NA
PZ-005	SMPZ-005-GW083010	Co-60	Filtered	0.45 U	1.3	0.38	0.6
PZ-005	SMPZ-005-GW083010	Co-60	Suspended	-0.02 U	0.9	0.26	0.42
PZ-005	SMPZ-005-GW083010	Co-60	Total	0.44	NA	0.46	NA
PZ-005	SMPZ-005-GW083010	Cs-134	Filtered	-0.13 U	1.2	0.35	0.58
PZ-005	SMPZ-005-GW083010	Cs-134	Suspended	0.0005 U	0.76	0.22	0.37

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW083010	Cs-134	Total	-0.13	NA	0.42	NA
PZ-005	SMPZ-005-GW083010	Cs-137	Filtered	0 U	1.3	0.38	0.63
PZ-005	SMPZ-005-GW083010	Cs-137	Suspended	-0.07 U	0.67	0.2	0.32
PZ-005	SMPZ-005-GW083010	Cs-137	Total	-0.07	NA	0.43	NA
PZ-005	SMPZ-005-GW083010	Eu-152	Filtered	-0.3 U	3.6	1.1	1.7
PZ-005	SMPZ-005-GW083010	Eu-152	Suspended	0.21 U	1.8	0.54	0.87
PZ-005	SMPZ-005-GW083010	Eu-152	Total	-0.1	NA	1.2	NA
PZ-005	SMPZ-005-GW083010	Eu-154	Filtered	0.3 U	11	3.1	5.1
PZ-005	SMPZ-005-GW083010	Eu-154	Suspended	0.4 U	6.6	1.9	3.1
PZ-005	SMPZ-005-GW083010	Eu-154	Total	0.7	NA	3.6	NA
PZ-005	SMPZ-005-GW083010	Eu-155	Filtered	-0.7 U	3.4	1	1.7
PZ-005	SMPZ-005-GW083010	Eu-155	Suspended	0.08 U	1.2	0.37	0.61
PZ-005	SMPZ-005-GW083010	Eu-155	Total	-0.7	NA	1.1	NA
PZ-005	SMPZ-005-GW083010	gross_alpha	Filtered	12.2	0.46	0.79	0.24
PZ-005	SMPZ-005-GW083010	gross_alpha	Suspended	1.2	0.51	0.24	0.27
PZ-005	SMPZ-005-GW083010	gross_alpha	Total	13.4	NA	0.83	NA
PZ-005	SMPZ-005-GW083010	gross_beta	Filtered	8	2.6	1.1	1.5
PZ-005	SMPZ-005-GW083010	gross_beta	Suspended	0.35 U	0.81	0.25	0.48
PZ-005	SMPZ-005-GW083010	gross_beta	Total	8.4	NA	1.2	NA
PZ-005	SMPZ-005-GW083010	H-3	Filtered	37 U	130	41	66
PZ-005	SMPZ-005-GW083010	H-3	Suspended	14.1 R	22	6.8	9.8
PZ-005	SMPZ-005-GW083010	H-3	Total	51 R	NA	41	NA
PZ-005	SMPZ-005-GW083010	H-3_Total	Filtered	37	26	9.2	12
PZ-005	SMPZ-005-GW083010	H-3_Total	Suspended	14.1 R	19	6	8.3
PZ-005	SMPZ-005-GW083010	H-3_Total	Total	51 R	NA	11	NA
PZ-005	SMPZ-005-GW083010	Ho-166m	Filtered	-0.01 U	1.9	0.56	0.92
PZ-005	SMPZ-005-GW083010	Ho-166m	Suspended	0.18 U	1	0.29	0.47
PZ-005	SMPZ-005-GW083010	Ho-166m	Total	0.16	NA	0.63	NA
PZ-005	SMPZ-005-GW083010	K-40	Filtered	2.5 U	24	6.1	12
PZ-005	SMPZ-005-GW083010	K-40	Suspended	2.2 U	12	3	5.7
PZ-005	SMPZ-005-GW083010	K-40	Total	4.6	NA	6.8	NA
PZ-005	SMPZ-005-GW083010	Na-22	Filtered	0.008 U	1.3	0.36	0.59
PZ-005	SMPZ-005-GW083010	Na-22	Suspended	-0.09 U	0.8	0.23	0.37
PZ-005	SMPZ-005-GW083010	Na-22	Total	-0.08	NA	0.43	NA
PZ-005	SMPZ-005-GW083010	Nb-94	Filtered	0.1 U	1.1	0.31	0.51
PZ-005	SMPZ-005-GW083010	Nb-94	Suspended	0.02 U	0.73	0.21	0.35
PZ-005	SMPZ-005-GW083010	Nb-94	Total	0.12	NA	0.38	NA
PZ-005	SMPZ-005-GW083010	Np-236	Filtered	-0.92 U	3.1	0.94	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW083010	Np-236	Suspended	0.34 U	1.2	0.36	0.58
PZ-005	SMPZ-005-GW083010	Np-236	Total	-0.6	NA	1	NA
PZ-005	SMPZ-005-GW083010	Np-239	Filtered	-0.8 U	7.9	2.3	3.8
PZ-005	SMPZ-005-GW083010	Np-239	Suspended	-0.3 U	3.8	1.1	1.8
PZ-005	SMPZ-005-GW083010	Np-239	Total	-1.1	NA	2.6	NA
PZ-005	SMPZ-005-GW083010	Pa-231	Filtered	1 U	57	17	28
PZ-005	SMPZ-005-GW083010	Pa-231	Suspended	0 U	28	8.2	13
PZ-005	SMPZ-005-GW083010	Pa-231	Total	1	NA	19	NA
PZ-005	SMPZ-005-GW083010	Pb-212	Filtered	0.05 U	2.8	0.82	1.4
PZ-005	SMPZ-005-GW083010	Pb-212	Suspended	-0.09 U	1.2	0.42	0.61
PZ-005	SMPZ-005-GW083010	Pb-212	Total	-0.04	NA	0.92	NA
PZ-005	SMPZ-005-GW083010	Pb-214	Filtered	1.6	2.9	1.1	1.4
PZ-005	SMPZ-005-GW083010	Pb-214	Suspended	1.91	1.5	0.6	0.73
PZ-005	SMPZ-005-GW083010	Pb-214	Total	3.5	NA	1.3	NA
PZ-005	SMPZ-005-GW083010	Sb-125	Filtered	2.6 U	14	4.2	6.9
PZ-005	SMPZ-005-GW083010	Sb-125	Suspended	1.5 U	6.4	1.9	3.1
PZ-005	SMPZ-005-GW083010	Sb-125	Total	4.1	NA	4.7	NA
PZ-005	SMPZ-005-GW083010	Sn-126	Filtered	0.5 U	1.3	0.39	0.62
PZ-005	SMPZ-005-GW083010	Sn-126	Suspended	0.3 U	0.7	0.21	0.33
PZ-005	SMPZ-005-GW083010	Sn-126	Total	0.79	NA	0.44	NA
PZ-005	SMPZ-005-GW083010	Sr-90	Filtered	0.047 U	0.24	0.07	0.14
PZ-005	SMPZ-005-GW083010	Sr-90	Suspended	-0.008 U	0.13	0.035	0.076
PZ-005	SMPZ-005-GW083010	Sr-90	Total	0.039	NA	0.078	NA
PZ-005	SMPZ-005-GW083010	Te-125m	Filtered	0.6 U	3.3	0.98	1.6
PZ-005	SMPZ-005-GW083010	Te-125m	Suspended	0.35 U	1.5	0.44	0.72
PZ-005	SMPZ-005-GW083010	Te-125m	Total	0.9	NA	1.1	NA
PZ-005	SMPZ-005-GW083010	Th-231	Filtered	0.229	0.008	0.027	0.007
PZ-005	SMPZ-005-GW083010	Th-231	Suspended	0.0014 U	0.034	0.0063	0.011
PZ-005	SMPZ-005-GW083010	Th-231	Total	0.231	NA	0.028	NA
PZ-005	SMPZ-005-GW083010	Th-234	Filtered	11.7 U	25	9	12
PZ-005	SMPZ-005-GW083010	Th-234	Suspended	4 U	9.1	3.2	4.5
PZ-005	SMPZ-005-GW083010	Th-234	Total	15.7	NA	9.6	NA
PZ-005	SMPZ-005-GW083010	Tl-208	Filtered	0.15 U	1.5	0.45	0.72
PZ-005	SMPZ-005-GW083010	Tl-208	Suspended	-0.02 U	0.8	0.26	0.38
PZ-005	SMPZ-005-GW083010	Tl-208	Total	0.13	NA	0.52	NA
PZ-005	SMPZ-005-GW083010	Tm-171	Filtered	-20 U	430	130	210
PZ-005	SMPZ-005-GW083010	Tm-171	Suspended	10 U	130	40	65
PZ-005	SMPZ-005-GW083010	Tm-171	Total	-7	NA	140	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW083010	U-233/234	Filtered	6.03	0.02	0.28	0.005
PZ-005	SMPZ-005-GW083010	U-233/234	Suspended	0.02	0.038	0.014	0.016
PZ-005	SMPZ-005-GW083010	U-233/234	Total	6.05	NA	0.28	NA
PZ-005	SMPZ-005-GW083010	U-235/236	Filtered	0.229	0.008	0.027	0.007
PZ-005	SMPZ-005-GW083010	U-235/236	Suspended	0.0014 U	0.034	0.0063	0.011
PZ-005	SMPZ-005-GW083010	U-235/236	Total	0.231	NA	0.028	NA
PZ-005	SMPZ-005-GW083010	U-238	Filtered	5.28	0.02	0.25	0.005
PZ-005	SMPZ-005-GW083010	U-238	Suspended	0.024 K	0.012	0.012	0.006
PZ-005	SMPZ-005-GW083010	U-238	Total	5.31	NA	0.25	NA
PZ-041	SMPZ-041-GW082710	Ac-227	Filtered	-3.7 U	9.1	2.7	4.4
PZ-041	SMPZ-041-GW082710	Ac-227	Suspended	-2.7 U	4.7	1.4	2.3
PZ-041	SMPZ-041-GW082710	Ac-227	Total	-6.4 L	NA	3.1	NA
PZ-041	SMPZ-041-GW082710	Ac-228	Filtered	0.8 U	4.6	1.3	2.1
PZ-041	SMPZ-041-GW082710	Ac-228	Suspended	0.9 U	2.9	1.1	1.4
PZ-041	SMPZ-041-GW082710	Ac-228	Total	1.7	NA	1.7	NA
PZ-041	SMPZ-041-GW082710	Ag-108	Filtered	-0.023 U R	0.11	0.031	0.05
PZ-041	SMPZ-041-GW082710	Ag-108	Suspended	0.001 U R	0.049	0.014	0.023
PZ-041	SMPZ-041-GW082710	Ag-108	Total	-0.022 R	NA	0.034	NA
PZ-041	SMPZ-041-GW082710	Ag-108m	Filtered	-0.25 U R	1.1	0.33	0.54
PZ-041	SMPZ-041-GW082710	Ag-108m	Suspended	0.01 U R	0.52	0.15	0.25
PZ-041	SMPZ-041-GW082710	Ag-108m	Total	-0.24 R	NA	0.37	NA
PZ-041	SMPZ-041-GW082710	Ba-133	Filtered	-3.6 U R	14	4.2	6.7
PZ-041	SMPZ-041-GW082710	Ba-133	Suspended	0 U R	6.1	1.8	3
PZ-041	SMPZ-041-GW082710	Ba-133	Total	-3.6 R	NA	4.5	NA
PZ-041	SMPZ-041-GW082710	Ba-137m	Filtered	-0.13 U	1.2	0.35	0.57
PZ-041	SMPZ-041-GW082710	Ba-137m	Suspended	0.03 U	0.67	0.2	0.32
PZ-041	SMPZ-041-GW082710	Ba-137m	Total	-0.1	NA	0.4	NA
PZ-041	SMPZ-041-GW082710	Bi-212	Filtered	0.07 U	12	3.5	5.7
PZ-041	SMPZ-041-GW082710	Bi-212	Suspended	2.2 U	6.7	2	3.2
PZ-041	SMPZ-041-GW082710	Bi-212	Total	2.2	NA	4	NA
PZ-041	SMPZ-041-GW082710	Bi-214	Filtered	0.5 U	3	0.82	1.4
PZ-041	SMPZ-041-GW082710	Bi-214	Suspended	1.51	1.7	0.63	0.81
PZ-041	SMPZ-041-GW082710	Bi-214	Total	2	NA	1	NA
PZ-041	SMPZ-041-GW082710	Cd-113m	Filtered	300 U	14000	4000	6600
PZ-041	SMPZ-041-GW082710	Cd-113m	Suspended	0 U	7500	2200	3600
PZ-041	SMPZ-041-GW082710	Cd-113m	Total	300	NA	4600	NA
PZ-041	SMPZ-041-GW082710	Cf-249	Filtered	0.2 U R	5.8	1.7	2.7
PZ-041	SMPZ-041-GW082710	Cf-249	Suspended	-0.38 U R	3	0.9	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW082710	Cf-249	Total	-0.2 R	NA	1.9	NA
PZ-041	SMPZ-041-GW082710	Co-60	Filtered	0.36 U	1.7	0.5	0.79
PZ-041	SMPZ-041-GW082710	Co-60	Suspended	0.42	0.75	0.23	0.35
PZ-041	SMPZ-041-GW082710	Co-60	Total	0.78	NA	0.55	NA
PZ-041	SMPZ-041-GW082710	Cs-134	Filtered	-0.14 U	1.5	0.42	0.69
PZ-041	SMPZ-041-GW082710	Cs-134	Suspended	-0.24 U	0.85	0.25	0.41
PZ-041	SMPZ-041-GW082710	Cs-134	Total	-0.38	NA	0.49	NA
PZ-041	SMPZ-041-GW082710	Cs-137	Filtered	-0.14 U	1.3	0.37	0.6
PZ-041	SMPZ-041-GW082710	Cs-137	Suspended	0.03 U	0.71	0.21	0.34
PZ-041	SMPZ-041-GW082710	Cs-137	Total	-0.11	NA	0.42	NA
PZ-041	SMPZ-041-GW082710	Eu-152	Filtered	0.07 U	3.4	0.97	1.6
PZ-041	SMPZ-041-GW082710	Eu-152	Suspended	-0.33 U	1.8	0.54	0.87
PZ-041	SMPZ-041-GW082710	Eu-152	Total	-0.3	NA	1.1	NA
PZ-041	SMPZ-041-GW082710	Eu-154	Filtered	-0.02 U	13	3.6	6
PZ-041	SMPZ-041-GW082710	Eu-154	Suspended	1.1 U	5.4	1.6	2.6
PZ-041	SMPZ-041-GW082710	Eu-154	Total	1.1	NA	4	NA
PZ-041	SMPZ-041-GW082710	Eu-155	Filtered	0.05 U	3.5	1	1.7
PZ-041	SMPZ-041-GW082710	Eu-155	Suspended	-0.04 U	1.2	0.35	0.58
PZ-041	SMPZ-041-GW082710	Eu-155	Total	0.02	NA	1.1	NA
PZ-041	SMPZ-041-GW082710	gross_alpha	Filtered	9.67	0.48	0.68	0.25
PZ-041	SMPZ-041-GW082710	gross_alpha	Suspended	0.75	0.51	0.21	0.27
PZ-041	SMPZ-041-GW082710	gross_alpha	Total	10.4	NA	0.72	NA
PZ-041	SMPZ-041-GW082710	gross_beta	Filtered	7.61	1.2	0.69	0.69
PZ-041	SMPZ-041-GW082710	gross_beta	Suspended	0.52	0.68	0.22	0.4
PZ-041	SMPZ-041-GW082710	gross_beta	Total	8.13	NA	0.72	NA
PZ-041	SMPZ-041-GW082710	H-3	Filtered	18 U	130	39	63
PZ-041	SMPZ-041-GW082710	H-3	Suspended	-7.3 U R	21	5.2	9.5
PZ-041	SMPZ-041-GW082710	H-3	Total	11 R	NA	39	NA
PZ-041	SMPZ-041-GW082710	H-3_Total	Filtered	18	34	10	16
PZ-041	SMPZ-041-GW082710	H-3_Total	Suspended	-7.3 U R	18	4.1	8.1
PZ-041	SMPZ-041-GW082710	H-3_Total	Total	11 R	NA	11	NA
PZ-041	SMPZ-041-GW082710	Ho-166m	Filtered	0.43 U	2.1	0.62	0.99
PZ-041	SMPZ-041-GW082710	Ho-166m	Suspended	-0.002 U	0.93	0.27	0.44
PZ-041	SMPZ-041-GW082710	Ho-166m	Total	0.43	NA	0.68	NA
PZ-041	SMPZ-041-GW082710	K-40	Filtered	-12 U	23	20	11
PZ-041	SMPZ-041-GW082710	K-40	Suspended	3.3 U	12	3.3	5.7
PZ-041	SMPZ-041-GW082710	K-40	Total	-9	NA	20	NA
PZ-041	SMPZ-041-GW082710	Na-22	Filtered	-0.16 U	1.8	0.5	0.81

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW082710	Na-22	Suspended	0.13 U	0.75	0.22	0.35
PZ-041	SMPZ-041-GW082710	Na-22	Total	-0.03	NA	0.54	NA
PZ-041	SMPZ-041-GW082710	Nb-94	Filtered	0.01 U	1.3	0.36	0.59
PZ-041	SMPZ-041-GW082710	Nb-94	Suspended	0.09 U	0.65	0.19	0.31
PZ-041	SMPZ-041-GW082710	Nb-94	Total	0.1	NA	0.41	NA
PZ-041	SMPZ-041-GW082710	Np-236	Filtered	0.17 U	2.7	0.79	1.3
PZ-041	SMPZ-041-GW082710	Np-236	Suspended	-0.01 U	1.2	0.36	0.6
PZ-041	SMPZ-041-GW082710	Np-236	Total	0.16	NA	0.87	NA
PZ-041	SMPZ-041-GW082710	Np-239	Filtered	0.6 U	7.8	2.3	3.7
PZ-041	SMPZ-041-GW082710	Np-239	Suspended	1.34 U	3.1	0.93	1.5
PZ-041	SMPZ-041-GW082710	Np-239	Total	1.9	NA	2.5	NA
PZ-041	SMPZ-041-GW082710	Pa-231	Filtered	-6 U	54	16	26
PZ-041	SMPZ-041-GW082710	Pa-231	Suspended	-2.8 U	25	7.4	12
PZ-041	SMPZ-041-GW082710	Pa-231	Total	-9	NA	17	NA
PZ-041	SMPZ-041-GW082710	Pb-212	Filtered	1.88	2.4	0.89	1.1
PZ-041	SMPZ-041-GW082710	Pb-212	Suspended	0.36 U	1.3	0.47	0.65
PZ-041	SMPZ-041-GW082710	Pb-212	Total	2.2	NA	1	NA
PZ-041	SMPZ-041-GW082710	Pb-214	Filtered	-0.9 U	3	2	1.5
PZ-041	SMPZ-041-GW082710	Pb-214	Suspended	2.17	1.5	0.61	0.72
PZ-041	SMPZ-041-GW082710	Pb-214	Total	1.3	NA	2.1	NA
PZ-041	SMPZ-041-GW082710	Sb-125	Filtered	2.4 U	9.3	2.8	4.4
PZ-041	SMPZ-041-GW082710	Sb-125	Suspended	0.9 U	5.8	1.7	2.8
PZ-041	SMPZ-041-GW082710	Sb-125	Total	3.3	NA	3.2	NA
PZ-041	SMPZ-041-GW082710	Sn-126	Filtered	-0.33 U	1.3	0.37	0.59
PZ-041	SMPZ-041-GW082710	Sn-126	Suspended	0.4	0.76	0.23	0.36
PZ-041	SMPZ-041-GW082710	Sn-126	Total	0.08	NA	0.44	NA
PZ-041	SMPZ-041-GW082710	Sr-90	Filtered	-0.064 U	0.18	0.046	0.11
PZ-041	SMPZ-041-GW082710	Sr-90	Suspended	0.06 U	0.15	0.045	0.089
PZ-041	SMPZ-041-GW082710	Sr-90	Total	-0.005	NA	0.065	NA
PZ-041	SMPZ-041-GW082710	Te-125m	Filtered	0.55 U	2.1	0.64	1
PZ-041	SMPZ-041-GW082710	Te-125m	Suspended	0.22 U	1.3	0.4	0.65
PZ-041	SMPZ-041-GW082710	Te-125m	Total	0.77	NA	0.75	NA
PZ-041	SMPZ-041-GW082710	Th-231	Filtered	0.271	0.01	0.033	0.008
PZ-041	SMPZ-041-GW082710	Th-231	Suspended	0.0037 U	0.03	0.0064	0.0085
PZ-041	SMPZ-041-GW082710	Th-231	Total	0.275	NA	0.034	NA
PZ-041	SMPZ-041-GW082710	Th-234	Filtered	-3.7 U	23	8.4	11
PZ-041	SMPZ-041-GW082710	Th-234	Suspended	4.8	8.7	2.8	4.3
PZ-041	SMPZ-041-GW082710	Th-234	Total	1.1	NA	8.8	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW082710	Tl-208	Filtered	0.27 U	1.7	0.46	0.8
PZ-041	SMPZ-041-GW082710	Tl-208	Suspended	-0.06 U	0.98	0.29	0.48
PZ-041	SMPZ-041-GW082710	Tl-208	Total	0.21	NA	0.54	NA
PZ-041	SMPZ-041-GW082710	Tm-171	Filtered	5 U	420	120	200
PZ-041	SMPZ-041-GW082710	Tm-171	Suspended	-30 U	130	38	62
PZ-041	SMPZ-041-GW082710	Tm-171	Total	-20	NA	130	NA
PZ-041	SMPZ-041-GW082710	U-233/234	Filtered	8.22	0.02	0.38	0.007
PZ-041	SMPZ-041-GW082710	U-233/234	Suspended	0.055	0.035	0.019	0.014
PZ-041	SMPZ-041-GW082710	U-233/234	Total	8.28	NA	0.38	NA
PZ-041	SMPZ-041-GW082710	U-235/236	Filtered	0.271	0.01	0.033	0.008
PZ-041	SMPZ-041-GW082710	U-235/236	Suspended	0.0037 U	0.03	0.0064	0.0085
PZ-041	SMPZ-041-GW082710	U-235/236	Total	0.275	NA	0.034	NA
PZ-041	SMPZ-041-GW082710	U-238	Filtered	6.79	0.02	0.32	0.007
PZ-041	SMPZ-041-GW082710	U-238	Suspended	0.037 K	0.029	0.015	0.01
PZ-041	SMPZ-041-GW082710	U-238	Total	6.82	NA	0.32	NA
PZ-052	SMPZ-052-GW083010	Ac-227	Filtered	-2.8 U	9	2.7	4.4
PZ-052	SMPZ-052-GW083010	Ac-227	Suspended	-3.1 L U	4.6	1.4	2.2
PZ-052	SMPZ-052-GW083010	Ac-227	Total	-5.9	NA	3	NA
PZ-052	SMPZ-052-GW083010	Ac-228	Filtered	0 U	6.2	1.8	2.9
PZ-052	SMPZ-052-GW083010	Ac-228	Suspended	2.12	2.2	0.7	1
PZ-052	SMPZ-052-GW083010	Ac-228	Total	2.1	NA	1.9	NA
PZ-052	SMPZ-052-GW083010	Ag-108	Filtered	0.019 U R	0.098	0.029	0.046
PZ-052	SMPZ-052-GW083010	Ag-108	Suspended	0.012 U R	0.05	0.015	0.024
PZ-052	SMPZ-052-GW083010	Ag-108	Total	0.031 R	NA	0.032	NA
PZ-052	SMPZ-052-GW083010	Ag-108m	Filtered	0.2 U R	1.1	0.31	0.5
PZ-052	SMPZ-052-GW083010	Ag-108m	Suspended	0.13 U R	0.54	0.16	0.26
PZ-052	SMPZ-052-GW083010	Ag-108m	Total	0.33 R	NA	0.35	NA
PZ-052	SMPZ-052-GW083010	Ba-133	Filtered	4.5 U R	12	3.5	5.5
PZ-052	SMPZ-052-GW083010	Ba-133	Suspended	1.3 U R	5.3	1.6	2.6
PZ-052	SMPZ-052-GW083010	Ba-133	Total	5.8 R	NA	3.8	NA
PZ-052	SMPZ-052-GW083010	Ba-137m	Filtered	0.18 U	1.2	0.35	0.56
PZ-052	SMPZ-052-GW083010	Ba-137m	Suspended	-0.24 U	0.74	0.22	0.35
PZ-052	SMPZ-052-GW083010	Ba-137m	Total	-0.07	NA	0.41	NA
PZ-052	SMPZ-052-GW083010	Bi-212	Filtered	-2 U	12	3.5	5.7
PZ-052	SMPZ-052-GW083010	Bi-212	Suspended	1.9 U	5.7	1.6	2.7
PZ-052	SMPZ-052-GW083010	Bi-212	Total	-0.2	NA	3.9	NA
PZ-052	SMPZ-052-GW083010	Bi-214	Filtered	-1.3 U	3.2	2.2	1.5
PZ-052	SMPZ-052-GW083010	Bi-214	Suspended	1.16	1.6	0.52	0.76

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW083010	Bi-214	Total	-0.1	NA	2.2	NA
PZ-052	SMPZ-052-GW083010	Cd-113m	Filtered	-300 U	13000	3900	6400
PZ-052	SMPZ-052-GW083010	Cd-113m	Suspended	1700 U	6900	2000	3300
PZ-052	SMPZ-052-GW083010	Cd-113m	Total	1400	NA	4400	NA
PZ-052	SMPZ-052-GW083010	Cf-249	Filtered	-0.9 U R	6	1.8	2.9
PZ-052	SMPZ-052-GW083010	Cf-249	Suspended	0.23 U R	3.2	0.93	1.5
PZ-052	SMPZ-052-GW083010	Cf-249	Total	-0.6 R	NA	2	NA
PZ-052	SMPZ-052-GW083010	Co-60	Filtered	-0.14 U	1.7	0.48	0.77
PZ-052	SMPZ-052-GW083010	Co-60	Suspended	0.04 U	0.83	0.24	0.39
PZ-052	SMPZ-052-GW083010	Co-60	Total	-0.1	NA	0.53	NA
PZ-052	SMPZ-052-GW083010	Cs-134	Filtered	0.04 U	1.5	0.44	0.72
PZ-052	SMPZ-052-GW083010	Cs-134	Suspended	-0.15 U	0.91	0.27	0.44
PZ-052	SMPZ-052-GW083010	Cs-134	Total	-0.11	NA	0.52	NA
PZ-052	SMPZ-052-GW083010	Cs-137	Filtered	0.19 U	1.3	0.37	0.59
PZ-052	SMPZ-052-GW083010	Cs-137	Suspended	-0.26 U	0.78	0.23	0.37
PZ-052	SMPZ-052-GW083010	Cs-137	Total	-0.07	NA	0.43	NA
PZ-052	SMPZ-052-GW083010	Eu-152	Filtered	-0.3 U	3.6	1.1	1.7
PZ-052	SMPZ-052-GW083010	Eu-152	Suspended	0.1 U	1.7	0.5	0.83
PZ-052	SMPZ-052-GW083010	Eu-152	Total	-0.2	NA	1.2	NA
PZ-052	SMPZ-052-GW083010	Eu-154	Filtered	-2.4 U	14	4	6.5
PZ-052	SMPZ-052-GW083010	Eu-154	Suspended	0.09 U	5.7	1.6	2.7
PZ-052	SMPZ-052-GW083010	Eu-154	Total	-2.3	NA	4.4	NA
PZ-052	SMPZ-052-GW083010	Eu-155	Filtered	0.04 U	3.1	0.92	1.5
PZ-052	SMPZ-052-GW083010	Eu-155	Suspended	0.008 U	1.1	0.32	0.52
PZ-052	SMPZ-052-GW083010	Eu-155	Total	0.04	NA	0.97	NA
PZ-052	SMPZ-052-GW083110	gross_alpha	Filtered	13.8	0.44	0.85	0.23
PZ-052	SMPZ-052-GW083110	gross_alpha	Suspended	0.37	0.38	0.14	0.2
PZ-052	SMPZ-052-GW083110	gross_alpha	Total	14.2	NA	0.86	NA
PZ-052	SMPZ-052-GW083110	gross_beta	Filtered	9.4	2.5	1.2	1.5
PZ-052	SMPZ-052-GW083110	gross_beta	Suspended	0.04 U	0.72	0.21	0.42
PZ-052	SMPZ-052-GW083110	gross_beta	Total	9.4	NA	1.2	NA
PZ-052	SMPZ-052-GW083010	H-3	Filtered	-19 U	150	45	74
PZ-052	SMPZ-052-GW083010	H-3	Suspended	-8.4 U R	21	4.9	9.3
PZ-052	SMPZ-052-GW083010	H-3	Total	-27 R	NA	45	NA
PZ-052	SMPZ-052-GW083010	H-3_Total	Filtered	-18.8 L U	36	8.8	17
PZ-052	SMPZ-052-GW083010	H-3_Total	Suspended	-8.4 L U	18	3.9	7.8
PZ-052	SMPZ-052-GW083010	H-3_Total	Total	-27.2 L R	NA	9.6	NA
PZ-052	SMPZ-052-GW083010	Ho-166m	Filtered	0.1 U	2.2	0.63	1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW083010	Ho-166m	Suspended	0.12 U	1.1	0.33	0.54
PZ-052	SMPZ-052-GW083010	Ho-166m	Total	0.22	NA	0.71	NA
PZ-052	SMPZ-052-GW083010	K-40	Filtered	9.9	16	4.9	7.1
PZ-052	SMPZ-052-GW083010	K-40	Suspended	9.7	9.9	3.9	4.7
PZ-052	SMPZ-052-GW083010	K-40	Total	19.6	NA	6.3	NA
PZ-052	SMPZ-052-GW083010	Na-22	Filtered	-0.04 U	1.7	0.49	0.8
PZ-052	SMPZ-052-GW083010	Na-22	Suspended	-0.08 U	0.91	0.26	0.43
PZ-052	SMPZ-052-GW083010	Na-22	Total	-0.12	NA	0.55	NA
PZ-052	SMPZ-052-GW083010	Nb-94	Filtered	0.23 U	1.1	0.32	0.51
PZ-052	SMPZ-052-GW083010	Nb-94	Suspended	-0.06 U	0.67	0.2	0.32
PZ-052	SMPZ-052-GW083010	Nb-94	Total	0.17	NA	0.38	NA
PZ-052	SMPZ-052-GW083010	Np-236	Filtered	0.02 U	2.5	0.72	1.2
PZ-052	SMPZ-052-GW083010	Np-236	Suspended	-0.04 U	1.2	0.36	0.58
PZ-052	SMPZ-052-GW083010	Np-236	Total	-0.02	NA	0.81	NA
PZ-052	SMPZ-052-GW083010	Np-239	Filtered	0.8 U	7.4	2.2	3.5
PZ-052	SMPZ-052-GW083010	Np-239	Suspended	0.5 U	3.8	1.1	1.9
PZ-052	SMPZ-052-GW083010	Np-239	Total	1.3	NA	2.4	NA
PZ-052	SMPZ-052-GW083010	Pa-231	Filtered	8 U	50	15	24
PZ-052	SMPZ-052-GW083010	Pa-231	Suspended	11.1 U	25	7.5	12
PZ-052	SMPZ-052-GW083010	Pa-231	Total	19	NA	16	NA
PZ-052	SMPZ-052-GW083010	Pb-212	Filtered	-1 U	2.9	1.5	1.4
PZ-052	SMPZ-052-GW083010	Pb-212	Suspended	0.08 U	1.1	0.33	0.55
PZ-052	SMPZ-052-GW083010	Pb-212	Total	-0.9	NA	1.6	NA
PZ-052	SMPZ-052-GW083010	Pb-214	Filtered	-0.7 U	2.8	1.4	1.3
PZ-052	SMPZ-052-GW083010	Pb-214	Suspended	1.8	1.4	0.49	0.65
PZ-052	SMPZ-052-GW083010	Pb-214	Total	1.1	NA	1.5	NA
PZ-052	SMPZ-052-GW083010	Sb-125	Filtered	1.6 U	13	3.7	6
PZ-052	SMPZ-052-GW083010	Sb-125	Suspended	1.5 U	6	1.8	2.9
PZ-052	SMPZ-052-GW083010	Sb-125	Total	3.1	NA	4.1	NA
PZ-052	SMPZ-052-GW083010	Sn-126	Filtered	0.7	1.3	0.41	0.62
PZ-052	SMPZ-052-GW083010	Sn-126	Suspended	0.35 U	0.81	0.25	0.39
PZ-052	SMPZ-052-GW083010	Sn-126	Total	1.05	NA	0.48	NA
PZ-052	SMPZ-052-GW083010	Sr-90	Filtered	0.053 U	0.15	0.044	0.087
PZ-052	SMPZ-052-GW083010	Sr-90	Suspended	-0.012 U	0.054	0.015	0.03
PZ-052	SMPZ-052-GW083010	Sr-90	Total	0.041	NA	0.046	NA
PZ-052	SMPZ-052-GW083010	Te-125m	Filtered	0.37 U	2.9	0.85	1.4
PZ-052	SMPZ-052-GW083010	Te-125m	Suspended	0.35 U	1.4	0.42	0.68
PZ-052	SMPZ-052-GW083010	Te-125m	Total	0.71	NA	0.95	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW083010	Th-231	Filtered	0.47	0.008	0.042	0.007
PZ-052	SMPZ-052-GW083010	Th-231	Suspended	0.0035 U	0.028	0.006	0.0079
PZ-052	SMPZ-052-GW083010	Th-231	Total	0.474	NA	0.043	NA
PZ-052	SMPZ-052-GW083010	Th-234	Filtered	9.2 U	23	8.1	11
PZ-052	SMPZ-052-GW083010	Th-234	Suspended	0.7 U	7.9	2.1	3.8
PZ-052	SMPZ-052-GW083010	Th-234	Total	9.9	NA	8.4	NA
PZ-052	SMPZ-052-GW083010	Tl-208	Filtered	-0.8 U	1.8	1.8	0.8
PZ-052	SMPZ-052-GW083010	Tl-208	Suspended	-0.18 U	0.95	0.38	0.46
PZ-052	SMPZ-052-GW083010	Tl-208	Total	-1	NA	1.8	NA
PZ-052	SMPZ-052-GW083010	Tm-171	Filtered	20 U	350	100	170
PZ-052	SMPZ-052-GW083010	Tm-171	Suspended	12 U	120	37	61
PZ-052	SMPZ-052-GW083010	Tm-171	Total	30	NA	110	NA
PZ-052	SMPZ-052-GW083010	U-233/234	Filtered	9.74	0.02	0.44	0.006
PZ-052	SMPZ-052-GW083010	U-233/234	Suspended	-0.0126 U	0.04	0.0078	0.017
PZ-052	SMPZ-052-GW083010	U-233/234	Total	9.73	NA	0.44	NA
PZ-052	SMPZ-052-GW083010	U-235/236	Filtered	0.47	0.008	0.042	0.007
PZ-052	SMPZ-052-GW083010	U-235/236	Suspended	0.0035 U	0.028	0.006	0.0079
PZ-052	SMPZ-052-GW083010	U-235/236	Total	0.474	NA	0.043	NA
PZ-052	SMPZ-052-GW083010	U-238	Filtered	8.74	0.02	0.39	0.008
PZ-052	SMPZ-052-GW083010	U-238	Suspended	0.008 U	0.033	0.011	0.013
PZ-052	SMPZ-052-GW083010	U-238	Total	8.75	NA	0.39	NA
PZ-056	SMPZ-056-GW082410	H-3	Filtered	75	130	40	64
PZ-056	SMPZ-056-GW082410	H-3	Suspended	-5 U	39	10	17
PZ-056	SMPZ-056-GW082410	H-3	Total	70	NA	41	NA
PZ-098	SMPZ-098-GW083110	Ac-227	Filtered	-0.1 U	13	3.8	6.2
PZ-098	SMPZ-098-GW083110	Ac-227	Suspended	-1.8 U	4.7	1.4	2.3
PZ-098	SMPZ-098-GW083110	Ac-227	Total	-1.9	NA	4	NA
PZ-098	SMPZ-098-GW083110	Ac-228	Filtered	4.3	4.2	1.4	2
PZ-098	SMPZ-098-GW083110	Ac-228	Suspended	0.3 U	3.1	1.2	1.5
PZ-098	SMPZ-098-GW083110	Ac-228	Total	4.6	NA	1.8	NA
PZ-098	SMPZ-098-GW083110	Ag-108	Filtered	-0.033 U R	0.096	0.029	0.046
PZ-098	SMPZ-098-GW083110	Ag-108	Suspended	-0.01 U R	0.054	0.016	0.026
PZ-098	SMPZ-098-GW083110	Ag-108	Total	-0.043 R	NA	0.033	NA
PZ-098	SMPZ-098-GW083110	Ag-108m	Filtered	-0.35 U R	1	0.31	0.49
PZ-098	SMPZ-098-GW083110	Ag-108m	Suspended	-0.11 U R	0.58	0.17	0.28
PZ-098	SMPZ-098-GW083110	Ag-108m	Total	-0.46 R	NA	0.35	NA
PZ-098	SMPZ-098-GW083110	Ba-133	Filtered	-1 U R	13	3.9	6.3
PZ-098	SMPZ-098-GW083110	Ba-133	Suspended	0.07 U R	4.6	1.3	2.2

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW083110	Ba-133	Total	-1 R	NA	4.1	NA
PZ-098	SMPZ-098-GW083110	Ba-137m	Filtered	-0.13 U	1.3	0.37	0.61
PZ-098	SMPZ-098-GW083110	Ba-137m	Suspended	0.02 U	0.69	0.2	0.33
PZ-098	SMPZ-098-GW083110	Ba-137m	Total	-0.11	NA	0.42	NA
PZ-098	SMPZ-098-GW083110	Bi-212	Filtered	-8 U	12	20	6
PZ-098	SMPZ-098-GW083110	Bi-212	Suspended	1.9 U	6.4	1.9	3
PZ-098	SMPZ-098-GW083110	Bi-212	Total	-6	NA	20	NA
PZ-098	SMPZ-098-GW083110	Bi-214	Filtered	1.2 U	3.1	1.2	1.5
PZ-098	SMPZ-098-GW083110	Bi-214	Suspended	-0.22 U	1.7	0.6	0.83
PZ-098	SMPZ-098-GW083110	Bi-214	Total	1	NA	1.3	NA
PZ-098	SMPZ-098-GW083110	Cd-113m	Filtered	500 U	17000	4900	8100
PZ-098	SMPZ-098-GW083110	Cd-113m	Suspended	2000 U	7200	2100	3500
PZ-098	SMPZ-098-GW083110	Cd-113m	Total	2500	NA	5400	NA
PZ-098	SMPZ-098-GW083110	Cf-249	Filtered	0.7 U R	5.7	1.7	2.7
PZ-098	SMPZ-098-GW083110	Cf-249	Suspended	-0.5 U R	3.4	1	1.6
PZ-098	SMPZ-098-GW083110	Cf-249	Total	0.2 R	NA	2	NA
PZ-098	SMPZ-098-GW083110	Co-60	Filtered	-0.22 U	1.4	0.41	0.65
PZ-098	SMPZ-098-GW083110	Co-60	Suspended	0 U	0.94	0.27	0.44
PZ-098	SMPZ-098-GW083110	Co-60	Total	-0.22	NA	0.49	NA
PZ-098	SMPZ-098-GW083110	Cs-134	Filtered	-0.3 U	1.4	0.41	0.67
PZ-098	SMPZ-098-GW083110	Cs-134	Suspended	-0.11 U	0.86	0.25	0.41
PZ-098	SMPZ-098-GW083110	Cs-134	Total	-0.41 SK	NA	0.49	NA
PZ-098	SMPZ-098-GW083110	Cs-137	Filtered	-0.14 U	1.3	0.4	0.64
PZ-098	SMPZ-098-GW083110	Cs-137	Suspended	0.02 U	0.73	0.21	0.35
PZ-098	SMPZ-098-GW083110	Cs-137	Total	-0.12	NA	0.45	NA
PZ-098	SMPZ-098-GW083110	Eu-152	Filtered	0.6 U	3.4	1	1.6
PZ-098	SMPZ-098-GW083110	Eu-152	Suspended	0.3 U	1.9	0.56	0.91
PZ-098	SMPZ-098-GW083110	Eu-152	Total	1	NA	1.2	NA
PZ-098	SMPZ-098-GW083110	Eu-154	Filtered	-0.6 U	10	3	4.8
PZ-098	SMPZ-098-GW083110	Eu-154	Suspended	0.02 U	5.8	1.7	2.7
PZ-098	SMPZ-098-GW083110	Eu-154	Total	-0.6	NA	3.4	NA
PZ-098	SMPZ-098-GW083110	Eu-155	Filtered	-0.06 U	3.6	1.1	1.7
PZ-098	SMPZ-098-GW083110	Eu-155	Suspended	0.1 U	1.3	0.38	0.62
PZ-098	SMPZ-098-GW083110	Eu-155	Total	0.04 SK	NA	1.1	NA
PZ-098	SMPZ-098-GW083110	gross_alpha	Filtered	13.3	0.47	0.84	0.25
PZ-098	SMPZ-098-GW083110	gross_alpha	Suspended	0.72	0.46	0.19	0.23
PZ-098	SMPZ-098-GW083110	gross_alpha	Total	14.1	NA	0.86	NA
PZ-098	SMPZ-098-GW083110	gross_beta	Filtered	11.9	2.3	1.2	1.3

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW083110	gross_beta	Suspended	1.17	0.67	0.25	0.39
PZ-098	SMPZ-098-GW083110	gross_beta	Total	13.1	NA	1.3	NA
PZ-098	SMPZ-098-GW083110	H-3	Filtered	39 U B	130	39	64
PZ-098	SMPZ-098-GW083110	H-3	Suspended	-6.6 U RB	22	5.5	10
PZ-098	SMPZ-098-GW083110	H-3	Total	33 RB	NA	40	NA
PZ-098	SMPZ-098-GW083110	Ho-166m	Filtered	0.11 U	1.5	0.42	0.69
PZ-098	SMPZ-098-GW083110	Ho-166m	Suspended	0.21 U	1.1	0.31	0.5
PZ-098	SMPZ-098-GW083110	Ho-166m	Total	0.33 SK	NA	0.53	NA
PZ-098	SMPZ-098-GW083110	K-40	Filtered	4.3 U	25	6.4	12
PZ-098	SMPZ-098-GW083110	K-40	Suspended	15.7	12	3.9	5.9
PZ-098	SMPZ-098-GW083110	K-40	Total	20	NA	7.5	NA
PZ-098	SMPZ-098-GW083110	Na-22	Filtered	0 U	1.6	0.45	0.74
PZ-098	SMPZ-098-GW083110	Na-22	Suspended	0 U	1.2	0.34	0.57
PZ-098	SMPZ-098-GW083110	Na-22	Total	0	NA	0.56	NA
PZ-098	SMPZ-098-GW083110	Nb-94	Filtered	0.58	0.88	0.27	0.41
PZ-098	SMPZ-098-GW083110	Nb-94	Suspended	0.02 U	0.67	0.2	0.32
PZ-098	SMPZ-098-GW083110	Nb-94	Total	0.6	NA	0.34	NA
PZ-098	SMPZ-098-GW083110	Np-236	Filtered	-0.5 U	3	0.91	1.5
PZ-098	SMPZ-098-GW083110	Np-236	Suspended	-0.34 U	1.3	0.39	0.64
PZ-098	SMPZ-098-GW083110	Np-236	Total	-0.84 SK	NA	0.99	NA
PZ-098	SMPZ-098-GW083110	Np-239	Filtered	-2.1 U	8.2	2.5	4
PZ-098	SMPZ-098-GW083110	Np-239	Suspended	0.82 U	2.9	0.87	1.4
PZ-098	SMPZ-098-GW083110	Np-239	Total	-1.2	NA	2.6	NA
PZ-098	SMPZ-098-GW083110	Pa-231	Filtered	-8 U	54	16	26
PZ-098	SMPZ-098-GW083110	Pa-231	Suspended	7 U	28	8.5	14
PZ-098	SMPZ-098-GW083110	Pa-231	Total	-1	NA	18	NA
PZ-098	SMPZ-098-GW083110	Pb-212	Filtered	1.7	3.3	1.3	1.6
PZ-098	SMPZ-098-GW083110	Pb-212	Suspended	0.19 U	1.3	0.45	0.65
PZ-098	SMPZ-098-GW083110	Pb-212	Total	1.9	NA	1.3	NA
PZ-098	SMPZ-098-GW083110	Pb-214	Filtered	0.3 U	2.8	1	1.4
PZ-098	SMPZ-098-GW083110	Pb-214	Suspended	-0.88 U	1.7	0.8	0.82
PZ-098	SMPZ-098-GW083110	Pb-214	Total	-0.6	NA	1.3	NA
PZ-098	SMPZ-098-GW083110	Sb-125	Filtered	-0.3 U	15	4.4	7.2
PZ-098	SMPZ-098-GW083110	Sb-125	Suspended	-1.5 U	6.7	2	3.3
PZ-098	SMPZ-098-GW083110	Sb-125	Total	-1.8 SK	NA	4.8	NA
PZ-098	SMPZ-098-GW083110	Sn-126	Filtered	-0.21 U	1.3	0.4	0.64
PZ-098	SMPZ-098-GW083110	Sn-126	Suspended	-0.22 U	0.86	0.26	0.41
PZ-098	SMPZ-098-GW083110	Sn-126	Total	-0.43	NA	0.47	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW083110	Sr-90	Filtered	0.038 U	0.15	0.043	0.086
PZ-098	SMPZ-098-GW083110	Sr-90	Suspended	-0.045 U	0.099	0.027	0.056
PZ-098	SMPZ-098-GW083110	Sr-90	Total	-0.007	NA	0.05	NA
PZ-098	SMPZ-098-GW083110	Te-125m	Filtered	-0.07 U	3.4	1	1.7
PZ-098	SMPZ-098-GW083110	Te-125m	Suspended	-0.34 U	1.5	0.46	0.75
PZ-098	SMPZ-098-GW083110	Te-125m	Total	-0.4 SK	NA	1.1	NA
PZ-098	SMPZ-098-GW083110	Th-231	Filtered	0.368	0.021	0.036	0.006
PZ-098	SMPZ-098-GW083110	Th-231	Suspended	0.0037 U	0.03	0.0063	0.0084
PZ-098	SMPZ-098-GW083110	Th-231	Total	0.372	NA	0.036	NA
PZ-098	SMPZ-098-GW083110	Th-234	Filtered	8 U	25	8.9	12
PZ-098	SMPZ-098-GW083110	Th-234	Suspended	1.2 U	8.6	2.5	4.2
PZ-098	SMPZ-098-GW083110	Th-234	Total	9.2	NA	9.3	NA
PZ-098	SMPZ-098-GW083110	Tl-208	Filtered	0.48 U	1.8	0.65	0.85
PZ-098	SMPZ-098-GW083110	Tl-208	Suspended	0.32 U	0.86	0.31	0.41
PZ-098	SMPZ-098-GW083110	Tl-208	Total	0.79	NA	0.72	NA
PZ-098	SMPZ-098-GW083110	Tm-171	Filtered	130 U	440	130	220
PZ-098	SMPZ-098-GW083110	Tm-171	Suspended	33 U	130	39	63
PZ-098	SMPZ-098-GW083110	Tm-171	Total	160	NA	140	NA
PZ-098	SMPZ-098-GW083110	U-233/234	Filtered	7.5	0.03	0.34	0.01
PZ-098	SMPZ-098-GW083110	U-233/234	Suspended	0.007 U	0.035	0.011	0.013
PZ-098	SMPZ-098-GW083110	U-233/234	Total	7.51	NA	0.34	NA
PZ-098	SMPZ-098-GW083110	U-235/236	Filtered	0.368	0.021	0.036	0.006
PZ-098	SMPZ-098-GW083110	U-235/236	Suspended	0.0037 U	0.03	0.0063	0.0084
PZ-098	SMPZ-098-GW083110	U-235/236	Total	0.372	NA	0.036	NA
PZ-098	SMPZ-098-GW083110	U-238	Filtered	7.32	0.02	0.33	0.007
PZ-098	SMPZ-098-GW083110	U-238	Suspended	0.0032 U	0.029	0.0085	0.0095
PZ-098	SMPZ-098-GW083110	U-238	Total	7.33	NA	0.33	NA
PZ-100	SMPZ-100-GW083010	Ac-227	Filtered	-1.1 U	9.2	2.7	4.5
PZ-100	SMPZ-100-GW083010	Ac-227	Suspended	-1.1 U	4.5	1.4	2.2
PZ-100	SMPZ-100-GW083010	Ac-227	Total	-2.2	NA	3	NA
PZ-100	SMPZ-100-GW083010	Ac-228	Filtered	-2.3 U	6.3	3.5	3
PZ-100	SMPZ-100-GW083010	Ac-228	Suspended	-2 U	3.3	2.7	1.6
PZ-100	SMPZ-100-GW083010	Ac-228	Total	-4.3	NA	4.4	NA
PZ-100	SMPZ-100-GW083010	Ag-108	Filtered	0.024 U R	0.11	0.033	0.052
PZ-100	SMPZ-100-GW083010	Ag-108	Suspended	0.024 R	0.042	0.013	0.02
PZ-100	SMPZ-100-GW083010	Ag-108	Total	0.048 R	NA	0.035	NA
PZ-100	SMPZ-100-GW083010	Ag-108m	Filtered	0.26 U R	1.2	0.35	0.56
PZ-100	SMPZ-100-GW083010	Ag-108m	Suspended	0.26 R	0.45	0.14	0.21

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW083010	Ag-108m	Total	0.52 R	NA	0.38	NA
PZ-100	SMPZ-100-GW083010	Ba-133	Filtered	-2.2 U R	14	4.1	6.7
PZ-100	SMPZ-100-GW083010	Ba-133	Suspended	1.6 U R	5.9	1.8	2.8
PZ-100	SMPZ-100-GW083010	Ba-133	Total	-0.5 R	NA	4.5	NA
PZ-100	SMPZ-100-GW083010	Ba-137m	Filtered	0.51 U	1.2	0.37	0.56
PZ-100	SMPZ-100-GW083010	Ba-137m	Suspended	-0.07 U	0.7	0.2	0.33
PZ-100	SMPZ-100-GW083010	Ba-137m	Total	0.45	NA	0.42	NA
PZ-100	SMPZ-100-GW083010	Bi-212	Filtered	-1.4 U	12	3.4	5.4
PZ-100	SMPZ-100-GW083010	Bi-212	Suspended	2.2 U	5.7	1.7	2.7
PZ-100	SMPZ-100-GW083010	Bi-212	Total	0.7	NA	3.8	NA
PZ-100	SMPZ-100-GW083010	Bi-214	Filtered	-0.6 U	3.5	1.2	1.6
PZ-100	SMPZ-100-GW083010	Bi-214	Suspended	-0.52 U	1.8	0.82	0.89
PZ-100	SMPZ-100-GW083010	Bi-214	Total	-1.1	NA	1.4	NA
PZ-100	SMPZ-100-GW083010	Cd-113m	Filtered	-3200 U	16000	4700	7600
PZ-100	SMPZ-100-GW083010	Cd-113m	Suspended	-200 U	6500	1900	3100
PZ-100	SMPZ-100-GW083010	Cd-113m	Total	-3400	NA	5100	NA
PZ-100	SMPZ-100-GW083010	Cf-249	Filtered	0 U R	6.8	2	3.3
PZ-100	SMPZ-100-GW083010	Cf-249	Suspended	-0.01 U R	3.1	0.9	1.5
PZ-100	SMPZ-100-GW083010	Cf-249	Total	-0.01 R	NA	2.2	NA
PZ-100	SMPZ-100-GW083010	Co-60	Filtered	0.17 U	1.6	0.44	0.7
PZ-100	SMPZ-100-GW083010	Co-60	Suspended	0.32 U	0.79	0.24	0.37
PZ-100	SMPZ-100-GW083010	Co-60	Total	0.48	NA	0.5	NA
PZ-100	SMPZ-100-GW083010	Cs-134	Filtered	0.02 U	1.6	0.46	0.75
PZ-100	SMPZ-100-GW083010	Cs-134	Suspended	0.1 U	0.84	0.25	0.41
PZ-100	SMPZ-100-GW083010	Cs-134	Total	0.12	NA	0.52	NA
PZ-100	SMPZ-100-GW083010	Cs-137	Filtered	0.54 U	1.3	0.39	0.59
PZ-100	SMPZ-100-GW083010	Cs-137	Suspended	-0.07 U	0.74	0.22	0.35
PZ-100	SMPZ-100-GW083010	Cs-137	Total	0.47	NA	0.45	NA
PZ-100	SMPZ-100-GW083010	Eu-152	Filtered	0 U	3.5	0.997	1.6
PZ-100	SMPZ-100-GW083010	Eu-152	Suspended	0.11 U	1.9	0.55	0.9
PZ-100	SMPZ-100-GW083010	Eu-152	Total	0.1	NA	1.1	NA
PZ-100	SMPZ-100-GW083010	Eu-154	Filtered	-2 U	15	4.3	6.9
PZ-100	SMPZ-100-GW083010	Eu-154	Suspended	0 U	7	2	3.3
PZ-100	SMPZ-100-GW083010	Eu-154	Total	-2	NA	4.7	NA
PZ-100	SMPZ-100-GW083010	Eu-155	Filtered	0.2 U	3.1	0.92	1.5
PZ-100	SMPZ-100-GW083010	Eu-155	Suspended	0.26 U	1.2	0.37	0.6
PZ-100	SMPZ-100-GW083010	Eu-155	Total	0.46	NA	0.99	NA
PZ-100	SMPZ-100-GW083010	gross_alpha	Filtered	20.5	0.4	1.1	0.2

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW083010	gross_alpha	Suspended	0.56	0.67	0.24	0.33
PZ-100	SMPZ-100-GW083010	gross_alpha	Total	21.1	NA	1.2	NA
PZ-100	SMPZ-100-GW083010	gross_beta	Filtered	19.4	2.8	1.6	1.6
PZ-100	SMPZ-100-GW083010	gross_beta	Suspended	0.57	0.7	0.23	0.41
PZ-100	SMPZ-100-GW083010	gross_beta	Total	19.9	NA	1.7	NA
PZ-100	SMPZ-100-GW083010	H-3	Filtered	29 U	130	39	64
PZ-100	SMPZ-100-GW083010	H-3	Suspended	-7.8 U R	21	5	9.3
PZ-100	SMPZ-100-GW083010	H-3	Total	21 R	NA	40	NA
PZ-100	SMPZ-100-GW083010	H-3_Total	Filtered	29.1	25	8.6	12
PZ-100	SMPZ-100-GW083010	H-3_Total	Suspended	-7.8 U R	18	4	7.9
PZ-100	SMPZ-100-GW083010	H-3_Total	Total	21.3 R	NA	9.5	NA
PZ-100	SMPZ-100-GW083010	Ho-166m	Filtered	-0.32 U	2.6	0.74	1.2
PZ-100	SMPZ-100-GW083010	Ho-166m	Suspended	0.3 U	0.99	0.29	0.47
PZ-100	SMPZ-100-GW083010	Ho-166m	Total	-0.01	NA	0.79	NA
PZ-100	SMPZ-100-GW083010	K-40	Filtered	21.6	20	6.5	9.3
PZ-100	SMPZ-100-GW083010	K-40	Suspended	2.3 U	11	2.5	5.5
PZ-100	SMPZ-100-GW083010	K-40	Total	24	NA	7	NA
PZ-100	SMPZ-100-GW083010	Na-22	Filtered	-0.009 U	2	0.56	0.93
PZ-100	SMPZ-100-GW083010	Na-22	Suspended	-0.13 U	0.85	0.25	0.4
PZ-100	SMPZ-100-GW083010	Na-22	Total	-0.14	NA	0.62	NA
PZ-100	SMPZ-100-GW083010	Nb-94	Filtered	-0.1 U	1.5	0.44	0.72
PZ-100	SMPZ-100-GW083010	Nb-94	Suspended	0.18 U	0.68	0.2	0.32
PZ-100	SMPZ-100-GW083010	Nb-94	Total	0.08	NA	0.48	NA
PZ-100	SMPZ-100-GW083010	Np-236	Filtered	0.76 U	2.6	0.78	1.3
PZ-100	SMPZ-100-GW083010	Np-236	Suspended	-0.12 U	1.2	0.37	0.61
PZ-100	SMPZ-100-GW083010	Np-236	Total	0.65	NA	0.86	NA
PZ-100	SMPZ-100-GW083010	Np-239	Filtered	0.1 U	7.6	2.2	3.6
PZ-100	SMPZ-100-GW083010	Np-239	Suspended	-0.7 U	3.8	1.1	1.8
PZ-100	SMPZ-100-GW083010	Np-239	Total	-0.6	NA	2.5	NA
PZ-100	SMPZ-100-GW083010	Pa-231	Filtered	24 U	54	16	26
PZ-100	SMPZ-100-GW083010	Pa-231	Suspended	-4.6 U	26	7.8	13
PZ-100	SMPZ-100-GW083010	Pa-231	Total	20	NA	18	NA
PZ-100	SMPZ-100-GW083010	Pb-212	Filtered	-0.24 U	2.8	0.92	1.4
PZ-100	SMPZ-100-GW083010	Pb-212	Suspended	0.55 U	1.2	0.38	0.6
PZ-100	SMPZ-100-GW083010	Pb-212	Total	0.31	NA	0.99	NA
PZ-100	SMPZ-100-GW083010	Pb-214	Filtered	-1 U	3.3	1.7	1.6
PZ-100	SMPZ-100-GW083010	Pb-214	Suspended	-0.17 U	1.6	0.48	0.79
PZ-100	SMPZ-100-GW083010	Pb-214	Total	-1.1	NA	1.7	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW083010	Sb-125	Filtered	-3.2 U	15	4.4	7.2
PZ-100	SMPZ-100-GW083010	Sb-125	Suspended	0.008 U	6.5	1.9	3.2
PZ-100	SMPZ-100-GW083010	Sb-125	Total	-3.2	NA	4.8	NA
PZ-100	SMPZ-100-GW083010	Sn-126	Filtered	0.24 U	1.6	0.46	0.73
PZ-100	SMPZ-100-GW083010	Sn-126	Suspended	0.3 U	0.79	0.24	0.38
PZ-100	SMPZ-100-GW083010	Sn-126	Total	0.54	NA	0.51	NA
PZ-100	SMPZ-100-GW083010	Sr-90	Filtered	0.037 U	0.21	0.06	0.12
PZ-100	SMPZ-100-GW083010	Sr-90	Suspended	0.084 U	0.16	0.048	0.094
PZ-100	SMPZ-100-GW083010	Sr-90	Total	0.121	NA	0.077	NA
PZ-100	SMPZ-100-GW083010	Te-125m	Filtered	-0.7 U	3.4	1	1.7
PZ-100	SMPZ-100-GW083010	Te-125m	Suspended	0.002 U	1.5	0.44	0.73
PZ-100	SMPZ-100-GW083010	Te-125m	Total	-0.7	NA	1.1	NA
PZ-100	SMPZ-100-GW083010	Th-231	Filtered	0.585	0.007	0.047	0.006
PZ-100	SMPZ-100-GW083010	Th-231	Suspended	-0.0044 U	0.036	0.0031	0.012
PZ-100	SMPZ-100-GW083010	Th-231	Total	0.58	NA	0.047	NA
PZ-100	SMPZ-100-GW083010	Th-234	Filtered	25.2	22	7.2	11
PZ-100	SMPZ-100-GW083010	Th-234	Suspended	-0.8 U	8.9	3	4.3
PZ-100	SMPZ-100-GW083010	Th-234	Total	24.4	NA	7.8	NA
PZ-100	SMPZ-100-GW083010	Tl-208	Filtered	2.01	1.5	0.53	0.69
PZ-100	SMPZ-100-GW083010	Tl-208	Suspended	0.49	0.91	0.37	0.44
PZ-100	SMPZ-100-GW083010	Tl-208	Total	2.5	NA	0.64	NA
PZ-100	SMPZ-100-GW083010	Tm-171	Filtered	167	320	98	160
PZ-100	SMPZ-100-GW083010	Tm-171	Suspended	29 U	130	39	63
PZ-100	SMPZ-100-GW083010	Tm-171	Total	200	NA	110	NA
PZ-100	SMPZ-100-GW083010	U-233/234	Filtered	13.7	0.02	0.6	0.005
PZ-100	SMPZ-100-GW083010	U-233/234	Suspended	0.027	0.04	0.016	0.017
PZ-100	SMPZ-100-GW083010	U-233/234	Total	13.7	NA	0.6	NA
PZ-100	SMPZ-100-GW083010	U-235/236	Filtered	0.585	0.007	0.047	0.006
PZ-100	SMPZ-100-GW083010	U-235/236	Suspended	-0.0044 U	0.036	0.0031	0.012
PZ-100	SMPZ-100-GW083010	U-235/236	Total	0.58	NA	0.047	NA
PZ-100	SMPZ-100-GW083010	U-238	Filtered	12.3	0.03	0.54	0.01
PZ-100	SMPZ-100-GW083010	U-238	Suspended	0.004 U	0.067	0.018	0.032
PZ-100	SMPZ-100-GW083010	U-238	Total	12.3	NA	0.54	NA
PZ-103	SMPZ-103-GW082310	Ac-227	Filtered	-0.6 U	9.3	2.7	4.5
PZ-103	SMPZ-103-GW082310	Ac-227	Suspended	-3.3 L U	4.7	1.4	2.3
PZ-103	SMPZ-103-GW082310	Ac-227	Total	-3.9	NA	3.1	NA
PZ-103	SMPZ-103-GW082310	Ac-228	Filtered	4.1	5.4	1.7	2.5
PZ-103	SMPZ-103-GW082310	Ac-228	Suspended	0.23 U	2.9	0.76	1.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW082310	Ac-228	Total	4.3	NA	1.9	NA
PZ-103	SMPZ-103-GW082310	Ag-108	Filtered	0.019 U R	0.11	0.033	0.053
PZ-103	SMPZ-103-GW082310	Ag-108	Suspended	-0.004 U R	0.036	0.01	0.017
PZ-103	SMPZ-103-GW082310	Ag-108	Total	0.015 R	NA	0.035	NA
PZ-103	SMPZ-103-GW082310	Ag-108m	Filtered	0.2 U R	1.2	0.36	0.57
PZ-103	SMPZ-103-GW082310	Ag-108m	Suspended	-0.04 U R	0.39	0.11	0.18
PZ-103	SMPZ-103-GW082310	Ag-108m	Total	0.16 R	NA	0.37	NA
PZ-103	SMPZ-103-GW082310	Ba-133	Filtered	2.5 U R	13	3.8	6.1
PZ-103	SMPZ-103-GW082310	Ba-133	Suspended	0.4 U R	5.1	1.5	2.5
PZ-103	SMPZ-103-GW082310	Ba-133	Total	2.8 R	NA	4.1	NA
PZ-103	SMPZ-103-GW082310	Ba-137m	Filtered	-0.29 U	1.4	0.42	0.68
PZ-103	SMPZ-103-GW082310	Ba-137m	Suspended	0.09 U	0.57	0.17	0.27
PZ-103	SMPZ-103-GW082310	Ba-137m	Total	-0.2	NA	0.46	NA
PZ-103	SMPZ-103-GW082310	Bi-212	Filtered	6	10	3.2	4.8
PZ-103	SMPZ-103-GW082310	Bi-212	Suspended	2.6 U	6.2	1.9	2.9
PZ-103	SMPZ-103-GW082310	Bi-212	Total	8.6	NA	3.7	NA
PZ-103	SMPZ-103-GW082310	Bi-214	Filtered	-0.8 U	3.2	1.2	1.5
PZ-103	SMPZ-103-GW082310	Bi-214	Suspended	1.89	1.6	0.57	0.77
PZ-103	SMPZ-103-GW082310	Bi-214	Total	1.1	NA	1.3	NA
PZ-103	SMPZ-103-GW082310	Cd-113m	Filtered	0 U	18000	5100	8500
PZ-103	SMPZ-103-GW082310	Cd-113m	Suspended	-1700 U	7200	2100	3500
PZ-103	SMPZ-103-GW082310	Cd-113m	Total	-1700	NA	5600	NA
PZ-103	SMPZ-103-GW082310	Cf-249	Filtered	0 U R	7.1	2.1	3.4
PZ-103	SMPZ-103-GW082310	Cf-249	Suspended	0 U R	3	0.88	1.4
PZ-103	SMPZ-103-GW082310	Cf-249	Total	0 R	NA	2.2	NA
PZ-103	SMPZ-103-GW082310	Co-60	Filtered	0.24 U	1.9	0.54	0.86
PZ-103	SMPZ-103-GW082310	Co-60	Suspended	0.34	0.63	0.19	0.29
PZ-103	SMPZ-103-GW082310	Co-60	Total	0.58	NA	0.57	NA
PZ-103	SMPZ-103-GW082310	Cs-134	Filtered	-0.22 U	1.5	0.43	0.69
PZ-103	SMPZ-103-GW082310	Cs-134	Suspended	-0.03 U	0.77	0.23	0.37
PZ-103	SMPZ-103-GW082310	Cs-134	Total	-0.25	NA	0.49	NA
PZ-103	SMPZ-103-GW082310	Cs-137	Filtered	-0.31 U	1.5	0.45	0.71
PZ-103	SMPZ-103-GW082310	Cs-137	Suspended	0.1 U	0.61	0.18	0.29
PZ-103	SMPZ-103-GW082310	Cs-137	Total	-0.22	NA	0.48	NA
PZ-103	SMPZ-103-GW082310	Eu-152	Filtered	-0.06 U	3.6	1	1.7
PZ-103	SMPZ-103-GW082310	Eu-152	Suspended	-0.14 U	1.8	0.52	0.85
PZ-103	SMPZ-103-GW082310	Eu-152	Total	-0.2	NA	1.2	NA
PZ-103	SMPZ-103-GW082310	Eu-154	Filtered	0.1 U	13	3.6	5.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW082310	Eu-154	Suspended	-1.6 U	6.4	1.9	3
PZ-103	SMPZ-103-GW082310	Eu-154	Total	-1.5	NA	4	NA
PZ-103	SMPZ-103-GW082310	Eu-155	Filtered	0.36 U	3.1	0.92	1.5
PZ-103	SMPZ-103-GW082310	Eu-155	Suspended	0.26 U	1.2	0.35	0.56
PZ-103	SMPZ-103-GW082310	Eu-155	Total	0.62	NA	0.99	NA
PZ-103	SMPZ-103-GW082310	gross_alpha	Filtered	4.15	0.44	0.43	0.22
PZ-103	SMPZ-103-GW082310	gross_alpha	Suspended	0.1 U	0.47	0.13	0.24
PZ-103	SMPZ-103-GW082310	gross_alpha	Total	4.26	NA	0.45	NA
PZ-103	SMPZ-103-GW082310	gross_beta	Filtered	0.89 U	3.2	0.96	1.9
PZ-103	SMPZ-103-GW082310	gross_beta	Suspended	1.54	0.82	0.3	0.48
PZ-103	SMPZ-103-GW082310	gross_beta	Total	2.4	NA	1	NA
PZ-103	SMPZ-103-GW082310	H-3	Filtered	7 U	140	42	69
PZ-103	SMPZ-103-GW082310	H-3	Suspended	4.9 U	13	3.8	5.3
PZ-103	SMPZ-103-GW082310	H-3	Total	12	NA	42	NA
PZ-103	SMPZ-103-GW082310	Ho-166m	Filtered	0.22 U	2.1	0.61	0.99
PZ-103	SMPZ-103-GW082310	Ho-166m	Suspended	-0.42 U	1.1	0.34	0.54
PZ-103	SMPZ-103-GW082310	Ho-166m	Total	-0.21	NA	0.7	NA
PZ-103	SMPZ-103-GW082310	K-40	Filtered	-18 U	24	24	11
PZ-103	SMPZ-103-GW082310	K-40	Suspended	-0.4 U	12	3.4	5.8
PZ-103	SMPZ-103-GW082310	K-40	Total	-18	NA	24	NA
PZ-103	SMPZ-103-GW082310	Na-22	Filtered	0.12 U	1.9	0.52	0.84
PZ-103	SMPZ-103-GW082310	Na-22	Suspended	0.02 U	0.82	0.23	0.38
PZ-103	SMPZ-103-GW082310	Na-22	Total	0.13	NA	0.57	NA
PZ-103	SMPZ-103-GW082310	Nb-94	Filtered	0.22 U	1.2	0.36	0.57
PZ-103	SMPZ-103-GW082310	Nb-94	Suspended	0.22 U	0.63	0.19	0.3
PZ-103	SMPZ-103-GW082310	Nb-94	Total	0.43	NA	0.4	NA
PZ-103	SMPZ-103-GW082310	Np-236	Filtered	-0.63 U	2.9	0.87	1.4
PZ-103	SMPZ-103-GW082310	Np-236	Suspended	0.008 U	1.1	0.32	0.53
PZ-103	SMPZ-103-GW082310	Np-236	Total	-0.62	NA	0.93	NA
PZ-103	SMPZ-103-GW082310	Np-239	Filtered	2.8 U	7.8	2.3	3.7
PZ-103	SMPZ-103-GW082310	Np-239	Suspended	-0.13 U	2.8	0.82	1.4
PZ-103	SMPZ-103-GW082310	Np-239	Total	2.7	NA	2.5	NA
PZ-103	SMPZ-103-GW082310	Pa-231	Filtered	-5 U	59	17	28
PZ-103	SMPZ-103-GW082310	Pa-231	Suspended	6.6 U	27	8	13
PZ-103	SMPZ-103-GW082310	Pa-231	Total	2	NA	19	NA
PZ-103	SMPZ-103-GW082310	Pb-212	Filtered	0.21 U	2.6	0.75	1.3
PZ-103	SMPZ-103-GW082310	Pb-212	Suspended	0.58	1.2	0.38	0.58
PZ-103	SMPZ-103-GW082310	Pb-212	Total	0.79	NA	0.84	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW082310	Pb-214	Filtered	0.81 U	3	0.97	1.4
PZ-103	SMPZ-103-GW082310	Pb-214	Suspended	1.54	1.5	0.62	0.73
PZ-103	SMPZ-103-GW082310	Pb-214	Total	2.3	NA	1.2	NA
PZ-103	SMPZ-103-GW082310	Sb-125	Filtered	-0.2 U	14	4.1	6.7
PZ-103	SMPZ-103-GW082310	Sb-125	Suspended	1.6 U	5.9	1.8	2.9
PZ-103	SMPZ-103-GW082310	Sb-125	Total	1.4	NA	4.5	NA
PZ-103	SMPZ-103-GW082310	Sn-126	Filtered	0.43 U	1.7	0.49	0.78
PZ-103	SMPZ-103-GW082310	Sn-126	Suspended	0.2 U	0.71	0.21	0.34
PZ-103	SMPZ-103-GW082310	Sn-126	Total	0.63	NA	0.54	NA
PZ-103	SMPZ-103-GW082310	Sr-90	Suspended	0.021 U	0.066	0.02	0.037
PZ-103	SMPZ-103-GW082310	Sr-90	Total	0.01	NA	0.053	NA
PZ-103	SMPZ-103-GW082310	Te-125m	Filtered	-0.05 U	3.2	0.95	1.6
PZ-103	SMPZ-103-GW082310	Te-125m	Suspended	0.37 U	1.4	0.41	0.66
PZ-103	SMPZ-103-GW082310	Te-125m	Total	0.3	NA	1	NA
PZ-103	SMPZ-103-GW082310	Th-231	Filtered	0.094	0.04	0.025	0.015
PZ-103	SMPZ-103-GW082310	Th-231	Suspended	-0.0091 U	0.045	0.0046	0.017
PZ-103	SMPZ-103-GW082310	Th-231	Total	0.085	NA	0.025	NA
PZ-103	SMPZ-103-GW082310	Th-234	Filtered	7.3 U	23	7.7	11
PZ-103	SMPZ-103-GW082310	Th-234	Suspended	-1.8 U	8.1	2.7	4
PZ-103	SMPZ-103-GW082310	Th-234	Total	5.5	NA	8.1	NA
PZ-103	SMPZ-103-GW082310	Tl-208	Filtered	0.04 U	2	0.54	0.97
PZ-103	SMPZ-103-GW082310	Tl-208	Suspended	0.28 U	0.75	0.25	0.36
PZ-103	SMPZ-103-GW082310	Tl-208	Total	0.32	NA	0.6	NA
PZ-103	SMPZ-103-GW082310	Tm-171	Filtered	110 U	340	100	160
PZ-103	SMPZ-103-GW082310	Tm-171	Suspended	14 U	120	37	60
PZ-103	SMPZ-103-GW082310	Tm-171	Total	130	NA	110	NA
PZ-103	SMPZ-103-GW082310	U-233/234	Filtered	1.9	0.03	0.12	0.01
PZ-103	SMPZ-103-GW082310	U-233/234	Suspended	0.02	0.039	0.014	0.015
PZ-103	SMPZ-103-GW082310	U-233/234	Total	1.92	NA	0.13	NA
PZ-103	SMPZ-103-GW082310	U-235/236	Filtered	0.094	0.04	0.025	0.015
PZ-103	SMPZ-103-GW082310	U-235/236	Suspended	-0.0091 U	0.045	0.0046	0.017
PZ-103	SMPZ-103-GW082310	U-235/236	Total	0.085	NA	0.025	NA
PZ-103	SMPZ-103-GW082310	U-238	Filtered	1.54	0.04	0.11	0.01
PZ-103	SMPZ-103-GW082310	U-238	Suspended	0.026	0.033	0.014	0.012
PZ-103	SMPZ-103-GW082310	U-238	Total	1.57	NA	0.11	NA
PZ-105	SMPZ-105-GW082610	Ac-227	Filtered	0.6 U	29	8.4	14
PZ-105	SMPZ-105-GW082710	Ac-227	Filtered	-0.09 U	7.9	2.3	3.8
PZ-105	SMPZ-105-GW082610	Ac-227	Suspended	-3.8 U	14	4.2	6.8

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082710	Ac-227	Suspended	0.2 U	4.2	1.2	2
PZ-105	SMPZ-105-GW082610	Ac-227	Total	-3.2	NA	9.4	NA
PZ-105	SMPZ-105-GW082710	Ac-227	Total	0.2	NA	2.6	NA
PZ-105	SMPZ-105-GW082610	Ac-228	Filtered	11.1	17	5.4	7.8
PZ-105	SMPZ-105-GW082710	Ac-228	Filtered	2.1	4	1.2	1.8
PZ-105	SMPZ-105-GW082610	Ac-228	Suspended	2.9 U B	7.7	2.3	3.5
PZ-105	SMPZ-105-GW082710	Ac-228	Suspended	2.15	2.4	0.76	1.1
PZ-105	SMPZ-105-GW082610	Ac-228	Total	13.9	NA	5.9	NA
PZ-105	SMPZ-105-GW082710	Ac-228	Total	4.3	NA	1.4	NA
PZ-105	SMPZ-105-GW082610	Ag-108	Filtered	0.007 U R	0.46	0.13	0.22
PZ-105	SMPZ-105-GW082710	Ag-108	Filtered	-0.0004 U R	0.1	0.03	0.049
PZ-105	SMPZ-105-GW082610	Ag-108	Suspended	0.023 U R	0.18	0.053	0.087
PZ-105	SMPZ-105-GW082710	Ag-108	Suspended	0.027 R	0.036	0.011	0.017
PZ-105	SMPZ-105-GW082610	Ag-108	Total	0.03 R	NA	0.14	NA
PZ-105	SMPZ-105-GW082710	Ag-108	Total	0.026 R	NA	0.032	NA
PZ-105	SMPZ-105-GW082610	Ag-108m	Filtered	0.07 U R	5	1.4	2.4
PZ-105	SMPZ-105-GW082710	Ag-108m	Filtered	-0.004 U R	1.1	0.32	0.53
PZ-105	SMPZ-105-GW082610	Ag-108m	Suspended	0.25 U R	2	0.57	0.94
PZ-105	SMPZ-105-GW082710	Ag-108m	Suspended	0.29 R	0.38	0.12	0.18
PZ-105	SMPZ-105-GW082610	Ag-108m	Total	0.3 R	NA	1.5	NA
PZ-105	SMPZ-105-GW082710	Ag-108m	Total	0.28 R	NA	0.34	NA
PZ-105	SMPZ-105-GW082610	Ba-133	Filtered	6 U R	54	16	26
PZ-105	SMPZ-105-GW082710	Ba-133	Filtered	2.1 U R	12	3.7	6
PZ-105	SMPZ-105-GW082610	Ba-133	Suspended	2 U R	21	6.1	10
PZ-105	SMPZ-105-GW082710	Ba-133	Suspended	1.8 U R	5.6	1.7	2.7
PZ-105	SMPZ-105-GW082610	Ba-133	Total	8 R	NA	17	NA
PZ-105	SMPZ-105-GW082710	Ba-133	Total	3.9 R	NA	4	NA
PZ-105	SMPZ-105-GW082610	Ba-137m	Filtered	2.1 U	4.9	1.5	2.2
PZ-105	SMPZ-105-GW082710	Ba-137m	Filtered	0.41 U	1.3	0.38	0.6
PZ-105	SMPZ-105-GW082610	Ba-137m	Suspended	1.93	2.3	0.95	1.1
PZ-105	SMPZ-105-GW082710	Ba-137m	Suspended	0.19 U	0.68	0.2	0.32
PZ-105	SMPZ-105-GW082610	Ba-137m	Total	4.1	NA	1.8	NA
PZ-105	SMPZ-105-GW082710	Ba-137m	Total	0.6	NA	0.43	NA
PZ-105	SMPZ-105-GW082610	Bi-212	Filtered	9 U	52	15	24
PZ-105	SMPZ-105-GW082710	Bi-212	Filtered	-0.08 U	10	2.9	4.7
PZ-105	SMPZ-105-GW082610	Bi-212	Suspended	0.1 U	20	5.6	9.2
PZ-105	SMPZ-105-GW082710	Bi-212	Suspended	1.4 U	6.2	1.8	2.9
PZ-105	SMPZ-105-GW082610	Bi-212	Total	10	NA	16	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082710	Bi-212	Total	1.3	NA	3.4	NA
PZ-105	SMPZ-105-GW082610	Bi-214	Filtered	5.8 U	14	4.8	6.5
PZ-105	SMPZ-105-GW082710	Bi-214	Filtered	0.42 U	3	0.83	1.4
PZ-105	SMPZ-105-GW082610	Bi-214	Suspended	-1.9 U	5.5	2.9	2.6
PZ-105	SMPZ-105-GW082710	Bi-214	Suspended	1.68	1.8	0.8	0.87
PZ-105	SMPZ-105-GW082610	Bi-214	Total	3.9	NA	5.6	NA
PZ-105	SMPZ-105-GW082710	Bi-214	Total	2.1	NA	1.2	NA
PZ-105	SMPZ-105-GW082610	Cd-113m	Filtered	24000 U	55000	16000	26000
PZ-105	SMPZ-105-GW082710	Cd-113m	Filtered	1300 U	12000	3600	5800
PZ-105	SMPZ-105-GW082610	Cd-113m	Suspended	4500 U	22000	6600	11000
PZ-105	SMPZ-105-GW082710	Cd-113m	Suspended	2100 U	7000	2100	3400
PZ-105	SMPZ-105-GW082610	Cd-113m	Total	28000	NA	18000	NA
PZ-105	SMPZ-105-GW082710	Cd-113m	Total	3400	NA	4100	NA
PZ-105	SMPZ-105-GW082610	Cf-249	Filtered	-8.2 U R	30	9.1	15
PZ-105	SMPZ-105-GW082710	Cf-249	Filtered	0.5 U R	6.6	1.9	3.2
PZ-105	SMPZ-105-GW082610	Cf-249	Suspended	-2.7 U R	11	3.2	5.2
PZ-105	SMPZ-105-GW082710	Cf-249	Suspended	0.02 U R	2.8	0.83	1.4
PZ-105	SMPZ-105-GW082610	Cf-249	Total	-10.9 R	NA	9.6	NA
PZ-105	SMPZ-105-GW082710	Cf-249	Total	0.5 R	NA	2.1	NA
PZ-105	SMPZ-105-GW082610	Co-60	Filtered	0.2 U	6.6	1.8	2.9
PZ-105	SMPZ-105-GW082710	Co-60	Filtered	0 U	1	0.27	0.44
PZ-105	SMPZ-105-GW082610	Co-60	Suspended	0.27 U	2.6	0.74	1.2
PZ-105	SMPZ-105-GW082710	Co-60	Suspended	0.18 U	0.73	0.21	0.33
PZ-105	SMPZ-105-GW082610	Co-60	Total	0.5	NA	1.9	NA
PZ-105	SMPZ-105-GW082710	Co-60	Total	0.18	NA	0.34	NA
PZ-105	SMPZ-105-GW082610	Cs-134	Filtered	0.9 U	5.7	1.7	2.7
PZ-105	SMPZ-105-GW082710	Cs-134	Filtered	-0.17 U	1.5	0.43	0.69
PZ-105	SMPZ-105-GW082610	Cs-134	Suspended	-0.13 U	2.8	0.82	1.3
PZ-105	SMPZ-105-GW082710	Cs-134	Suspended	0.02 U	0.89	0.26	0.43
PZ-105	SMPZ-105-GW082610	Cs-134	Total	0.7 SK	NA	1.9	NA
PZ-105	SMPZ-105-GW082710	Cs-134	Total	-0.16	NA	0.5	NA
PZ-105	SMPZ-105-GW082610	Cs-137	Filtered	2.3 U	5.1	1.6	2.4
PZ-105	SMPZ-105-GW082710	Cs-137	Filtered	0.43 U	1.3	0.4	0.63
PZ-105	SMPZ-105-GW082610	Cs-137	Suspended	2	2.5	1	1.2
PZ-105	SMPZ-105-GW082710	Cs-137	Suspended	0.2 U	0.72	0.21	0.34
PZ-105	SMPZ-105-GW082610	Cs-137	Total	4.3	NA	1.9	NA
PZ-105	SMPZ-105-GW082710	Cs-137	Total	0.63	NA	0.45	NA
PZ-105	SMPZ-105-GW082610	Eu-152	Filtered	-2.3 U	15	4.5	7.2

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082710	Eu-152	Filtered	0.03 U	3.5	1	1.7
PZ-105	SMPZ-105-GW082610	Eu-152	Suspended	-0.9 U	6.3	1.9	3
PZ-105	SMPZ-105-GW082710	Eu-152	Suspended	0.65 U	1.7	0.53	0.84
PZ-105	SMPZ-105-GW082610	Eu-152	Total	-3.2	NA	4.8	NA
PZ-105	SMPZ-105-GW082710	Eu-152	Total	0.7	NA	1.2	NA
PZ-105	SMPZ-105-GW082610	Eu-154	Filtered	3 U	46	13	21
PZ-105	SMPZ-105-GW082710	Eu-154	Filtered	-0.3 U	11	3	4.9
PZ-105	SMPZ-105-GW082610	Eu-154	Suspended	0 U	22	6.3	10
PZ-105	SMPZ-105-GW082710	Eu-154	Suspended	0.02 U	5.9	1.7	2.8
PZ-105	SMPZ-105-GW082610	Eu-154	Total	3	NA	14	NA
PZ-105	SMPZ-105-GW082710	Eu-154	Total	-0.3	NA	3.4	NA
PZ-105	SMPZ-105-GW082610	Eu-155	Filtered	2 U	12	3.6	5.9
PZ-105	SMPZ-105-GW082710	Eu-155	Filtered	0.78 U	3.1	0.92	1.5
PZ-105	SMPZ-105-GW082610	Eu-155	Suspended	-0.9 U	4.5	1.3	2.2
PZ-105	SMPZ-105-GW082710	Eu-155	Suspended	-0.08 U	1.2	0.36	0.6
PZ-105	SMPZ-105-GW082610	Eu-155	Total	1 SK	NA	3.9	NA
PZ-105	SMPZ-105-GW082710	Eu-155	Total	0.7	NA	0.99	NA
PZ-105	SMPZ-105-GW082610	gross_alpha	Filtered	22	0.5	1.2	0.2
PZ-105	SMPZ-105-GW082610	gross_alpha	Suspended	0.35 U	1.6	0.45	0.84
PZ-105	SMPZ-105-GW082610	gross_alpha	Total	22.4	NA	1.3	NA
PZ-105	SMPZ-105-GW082610	gross_beta	Filtered	17.9	2.9	1.6	1.7
PZ-105	SMPZ-105-GW082610	gross_beta	Suspended	0.43 U	0.75	0.23	0.44
PZ-105	SMPZ-105-GW082610	gross_beta	Total	18.3	NA	1.7	NA
PZ-105	SMPZ-105-GW082610	H-3	Filtered	10 U	140	41	67
PZ-105	SMPZ-105-GW082610	H-3	Suspended	-9.5 U R	22	5.5	10
PZ-105	SMPZ-105-GW082610	H-3	Total	0.6 R	NA	41	NA
PZ-105	SMPZ-105-GW082610	Ho-166m	Filtered	-3.3 U	11	3.2	5.1
PZ-105	SMPZ-105-GW082710	Ho-166m	Filtered	-0.64 U	2.6	0.76	1.2
PZ-105	SMPZ-105-GW082610	Ho-166m	Suspended	-0.6 U	3.5	1	1.6
PZ-105	SMPZ-105-GW082710	Ho-166m	Suspended	0.13 U	1.1	0.33	0.53
PZ-105	SMPZ-105-GW082610	Ho-166m	Total	-3.9 SK	NA	3.4	NA
PZ-105	SMPZ-105-GW082710	Ho-166m	Total	-0.51	NA	0.83	NA
PZ-105	SMPZ-105-GW082610	K-40	Filtered	-51 U	98	59	46
PZ-105	SMPZ-105-GW082710	K-40	Filtered	10.1	19	5.9	8.9
PZ-105	SMPZ-105-GW082610	K-40	Suspended	-18 U	36	23	17
PZ-105	SMPZ-105-GW082710	K-40	Suspended	7.5	10	3.8	4.8
PZ-105	SMPZ-105-GW082610	K-40	Total	-70	NA	64	NA
PZ-105	SMPZ-105-GW082710	K-40	Total	17.5	NA	7	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082610	Na-22	Filtered	-1.3 U	8	2.3	3.7
PZ-105	SMPZ-105-GW082710	Na-22	Filtered	-0.05 U	1.9	0.54	0.89
PZ-105	SMPZ-105-GW082610	Na-22	Suspended	0.53 U	2.6	0.74	1.2
PZ-105	SMPZ-105-GW082710	Na-22	Suspended	0.19 U	0.74	0.22	0.34
PZ-105	SMPZ-105-GW082610	Na-22	Total	-0.8	NA	2.4	NA
PZ-105	SMPZ-105-GW082710	Na-22	Total	0.14	NA	0.58	NA
PZ-105	SMPZ-105-GW082610	Nb-94	Filtered	0.03 U	5.2	1.5	2.4
PZ-105	SMPZ-105-GW082710	Nb-94	Filtered	0 U	1.6	0.45	0.75
PZ-105	SMPZ-105-GW082610	Nb-94	Suspended	0.22 U	1.6	0.46	0.74
PZ-105	SMPZ-105-GW082710	Nb-94	Suspended	-0.02 U	0.62	0.18	0.29
PZ-105	SMPZ-105-GW082610	Nb-94	Total	0.3	NA	1.5	NA
PZ-105	SMPZ-105-GW082710	Nb-94	Total	-0.02	NA	0.49	NA
PZ-105	SMPZ-105-GW082610	Np-236	Filtered	0.2 U	11	3.1	5.1
PZ-105	SMPZ-105-GW082710	Np-236	Filtered	0.4 U	2.6	0.76	1.2
PZ-105	SMPZ-105-GW082610	Np-236	Suspended	-0.8 U	4.4	1.3	2.1
PZ-105	SMPZ-105-GW082710	Np-236	Suspended	-0.07 U	1.2	0.36	0.58
PZ-105	SMPZ-105-GW082610	Np-236	Total	-0.6 SK	NA	3.4	NA
PZ-105	SMPZ-105-GW082710	Np-236	Total	0.33	NA	0.84	NA
PZ-105	SMPZ-105-GW082610	Np-239	Filtered	-8.2 U	33	9.9	16
PZ-105	SMPZ-105-GW082710	Np-239	Filtered	-1.2 U	7.9	2.4	3.8
PZ-105	SMPZ-105-GW082610	Np-239	Suspended	-0.7 U	11	3.2	5.2
PZ-105	SMPZ-105-GW082710	Np-239	Suspended	-1 U	3.9	1.2	1.9
PZ-105	SMPZ-105-GW082610	Np-239	Total	-9	NA	10	NA
PZ-105	SMPZ-105-GW082710	Np-239	Total	-2.2	NA	2.6	NA
PZ-105	SMPZ-105-GW082610	Pa-231	Filtered	-60 U	260	76	120
PZ-105	SMPZ-105-GW082710	Pa-231	Filtered	-4 U	56	16	27
PZ-105	SMPZ-105-GW082610	Pa-231	Suspended	2 U	71	21	34
PZ-105	SMPZ-105-GW082710	Pa-231	Suspended	-0.002 U	27	8	13
PZ-105	SMPZ-105-GW082610	Pa-231	Total	-58	NA	79	NA
PZ-105	SMPZ-105-GW082710	Pa-231	Total	-4	NA	18	NA
PZ-105	SMPZ-105-GW082610	Pb-212	Filtered	-4.1 U	13	6.1	6.2
PZ-105	SMPZ-105-GW082710	Pb-212	Filtered	-0.31 U	2.7	0.98	1.3
PZ-105	SMPZ-105-GW082610	Pb-212	Suspended	-1.7 U	4.6	2.7	2.3
PZ-105	SMPZ-105-GW082710	Pb-212	Suspended	0.54 U	1.3	0.49	0.65
PZ-105	SMPZ-105-GW082610	Pb-212	Total	-5.8	NA	6.7	NA
PZ-105	SMPZ-105-GW082710	Pb-212	Total	0.2	NA	1.1	NA
PZ-105	SMPZ-105-GW082610	Pb-214	Filtered	0.4 U	13	3.6	6.4
PZ-105	SMPZ-105-GW082710	Pb-214	Filtered	-0.9 U	3.1	2	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082610	Pb-214	Suspended	-4.3 U	5.4	6.1	2.6
PZ-105	SMPZ-105-GW082710	Pb-214	Suspended	2.25	1.4	0.55	0.69
PZ-105	SMPZ-105-GW082610	Pb-214	Total	-3.8	NA	7.1	NA
PZ-105	SMPZ-105-GW082710	Pb-214	Total	1.4	NA	2.1	NA
PZ-105	SMPZ-105-GW082610	Sb-125	Filtered	-19 U	60	18	29
PZ-105	SMPZ-105-GW082710	Sb-125	Filtered	0.03 U	13	3.9	6.4
PZ-105	SMPZ-105-GW082610	Sb-125	Suspended	1.7 U	21	6.3	10
PZ-105	SMPZ-105-GW082710	Sb-125	Suspended	-0.8 U	6.1	1.8	3
PZ-105	SMPZ-105-GW082610	Sb-125	Total	-17 SK	NA	19	NA
PZ-105	SMPZ-105-GW082710	Sb-125	Total	-0.7	NA	4.3	NA
PZ-105	SMPZ-105-GW082610	Sn-126	Filtered	1.1 U	6.4	1.9	3
PZ-105	SMPZ-105-GW082710	Sn-126	Filtered	0.81	1.6	0.5	0.77
PZ-105	SMPZ-105-GW082610	Sn-126	Suspended	-0.007 U	2.7	0.77	1.3
PZ-105	SMPZ-105-GW082710	Sn-126	Suspended	-0.05 U	0.82	0.24	0.39
PZ-105	SMPZ-105-GW082610	Sn-126	Total	1	NA	2	NA
PZ-105	SMPZ-105-GW082710	Sn-126	Total	0.76	NA	0.55	NA
PZ-105	SMPZ-105-GW082610	Sr-90	Filtered	0.029 U	0.2	0.058	0.11
PZ-105	SMPZ-105-GW082610	Sr-90	Suspended	0.032 U	0.1	0.031	0.059
PZ-105	SMPZ-105-GW082610	Sr-90	Total	0.061	NA	0.066	NA
PZ-105	SMPZ-105-GW082610	Te-125m	Filtered	-4.3 U	14	4.1	6.6
PZ-105	SMPZ-105-GW082710	Te-125m	Filtered	0.007 U	3	0.89	1.5
PZ-105	SMPZ-105-GW082610	Te-125m	Suspended	0.4 U	4.9	1.5	2.4
PZ-105	SMPZ-105-GW082710	Te-125m	Suspended	-0.17 U	1.4	0.42	0.69
PZ-105	SMPZ-105-GW082610	Te-125m	Total	-3.9 SK	NA	4.4	NA
PZ-105	SMPZ-105-GW082710	Te-125m	Total	-0.16	NA	0.99	NA
PZ-105	SMPZ-105-GW082610	Th-231	Filtered	0.454	0.013	0.051	0.008
PZ-105	SMPZ-105-GW082610	Th-231	Suspended	0 U	0.023	0.0085	0.02
PZ-105	SMPZ-105-GW082610	Th-231	Total	0.454	NA	0.052	NA
PZ-105	SMPZ-105-GW082610	Th-234	Filtered	-4 U	85	26	41
PZ-105	SMPZ-105-GW082710	Th-234	Filtered	17	23	7.5	11
PZ-105	SMPZ-105-GW082610	Th-234	Suspended	2 U	28	10	14
PZ-105	SMPZ-105-GW082710	Th-234	Suspended	5.7	7.8	2.8	3.8
PZ-105	SMPZ-105-GW082610	Th-234	Total	-2	NA	28	NA
PZ-105	SMPZ-105-GW082710	Th-234	Total	22.7	NA	8	NA
PZ-105	SMPZ-105-GW082610	Tl-208	Filtered	-6 U	9	110	4
PZ-105	SMPZ-105-GW082710	Tl-208	Filtered	0.28 U	1.6	0.44	0.77
PZ-105	SMPZ-105-GW082610	Tl-208	Suspended	-0.14 U	2.8	0.93	1.3
PZ-105	SMPZ-105-GW082710	Tl-208	Suspended	0.16 U	0.92	0.25	0.44

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW082610	Tl-208	Total	-6	NA	110	NA
PZ-105	SMPZ-105-GW082710	Tl-208	Total	0.44	NA	0.5	NA
PZ-105	SMPZ-105-GW082610	Tm-171	Filtered	350 U	1400	410	670
PZ-105	SMPZ-105-GW082710	Tm-171	Filtered	30 U	350	100	170
PZ-105	SMPZ-105-GW082610	Tm-171	Suspended	-60 U	450	130	220
PZ-105	SMPZ-105-GW082710	Tm-171	Suspended	7 U	130	38	63
PZ-105	SMPZ-105-GW082610	Tm-171	Total	280	NA	430	NA
PZ-105	SMPZ-105-GW082710	Tm-171	Total	40	NA	110	NA
PZ-105	SMPZ-105-GW082610	U-233/234	Filtered	10.9 K	0.01	0.5	0.006
PZ-105	SMPZ-105-GW082610	U-233/234	Suspended	0.048	0.018	0.018	0.016
PZ-105	SMPZ-105-GW082610	U-233/234	Total	11	NA	0.5	NA
PZ-105	SMPZ-105-GW082610	U-235/236	Filtered	0.454	0.013	0.051	0.008
PZ-105	SMPZ-105-GW082610	U-235/236	Suspended	0 U	0.023	0.0085	0.02
PZ-105	SMPZ-105-GW082610	U-235/236	Total	0.454	NA	0.052	NA
PZ-105	SMPZ-105-GW082610	U-238	Filtered	10.4	0.01	0.48	0.006
PZ-105	SMPZ-105-GW082610	U-238	Suspended	0.041	0.018	0.017	0.016
PZ-105	SMPZ-105-GW082610	U-238	Total	10.4	NA	0.48	NA
PZ-106	SMPZ-106-GW082610	Ac-227	Filtered	2.6 U	7.8	2.4	3.7
PZ-106	SMPZ-106-GW082610	Ac-227	Suspended	-3.6 L U	4.8	1.5	2.3
PZ-106	SMPZ-106-GW082610	Ac-227	Total	-0.9	NA	2.8	NA
PZ-106	SMPZ-106-GW082610	Ac-228	Filtered	4	5.2	1.7	2.4
PZ-106	SMPZ-106-GW082610	Ac-228	Suspended	-0.4 U B	3	0.93	1.4
PZ-106	SMPZ-106-GW082610	Ac-228	Total	3.6	NA	1.9	NA
PZ-106	SMPZ-106-GW082610	Ag-108	Filtered	0.028 U R	0.11	0.032	0.051
PZ-106	SMPZ-106-GW082610	Ag-108	Suspended	0.004 U R	0.048	0.014	0.023
PZ-106	SMPZ-106-GW082610	Ag-108	Total	0.033 R	NA	0.035	NA
PZ-106	SMPZ-106-GW082610	Ag-108m	Filtered	0.3 U R	1.2	0.34	0.55
PZ-106	SMPZ-106-GW082610	Ag-108m	Suspended	0.05 U R	0.52	0.15	0.25
PZ-106	SMPZ-106-GW082610	Ag-108m	Total	0.35 R	NA	0.38	NA
PZ-106	SMPZ-106-GW082610	Ba-133	Filtered	-1.8 U R	15	4.4	7.2
PZ-106	SMPZ-106-GW082610	Ba-133	Suspended	1.1 U R	6.3	1.9	3.1
PZ-106	SMPZ-106-GW082610	Ba-133	Total	-0.7 R	NA	4.8	NA
PZ-106	SMPZ-106-GW082610	Ba-137m	Filtered	0.51 U	1.3	0.39	0.6
PZ-106	SMPZ-106-GW082610	Ba-137m	Suspended	0.16 U	0.62	0.18	0.29
PZ-106	SMPZ-106-GW082610	Ba-137m	Total	0.67	NA	0.43	NA
PZ-106	SMPZ-106-GW082610	Bi-212	Filtered	0 U	17	5	8.2
PZ-106	SMPZ-106-GW082610	Bi-212	Suspended	2.6 U	6.6	2	3.2
PZ-106	SMPZ-106-GW082610	Bi-212	Total	2.6	NA	5.4	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW082610	Bi-214	Filtered	1 U	3.2	0.94	1.5
PZ-106	SMPZ-106-GW082610	Bi-214	Suspended	-0.38 U	1.7	0.62	0.84
PZ-106	SMPZ-106-GW082610	Bi-214	Total	0.6	NA	1.1	NA
PZ-106	SMPZ-106-GW082610	Cd-113m	Filtered	2100 U	16000	4800	7800
PZ-106	SMPZ-106-GW082610	Cd-113m	Suspended	400 U	6600	2000	3200
PZ-106	SMPZ-106-GW082610	Cd-113m	Total	2500	NA	5200	NA
PZ-106	SMPZ-106-GW082610	Cf-249	Filtered	1.2 U R	6.2	1.8	3
PZ-106	SMPZ-106-GW082610	Cf-249	Suspended	0.75 U R	2.9	0.88	1.4
PZ-106	SMPZ-106-GW082610	Cf-249	Total	2 R	NA	2	NA
PZ-106	SMPZ-106-GW082610	Co-60	Filtered	0.01 U	1.9	0.54	0.88
PZ-106	SMPZ-106-GW082610	Co-60	Suspended	0.11 U	0.78	0.22	0.36
PZ-106	SMPZ-106-GW082610	Co-60	Total	0.12	NA	0.58	NA
PZ-106	SMPZ-106-GW082610	Cs-134	Filtered	-0.44 U	1.8	0.54	0.86
PZ-106	SMPZ-106-GW082610	Cs-134	Suspended	-0.12 U	0.88	0.26	0.42
PZ-106	SMPZ-106-GW082610	Cs-134	Total	-0.55 SK	NA	0.6	NA
PZ-106	SMPZ-106-GW082610	Cs-137	Filtered	0.54 U	1.4	0.41	0.63
PZ-106	SMPZ-106-GW082610	Cs-137	Suspended	0.17 U	0.65	0.19	0.31
PZ-106	SMPZ-106-GW082610	Cs-137	Total	0.71	NA	0.45	NA
PZ-106	SMPZ-106-GW082610	Eu-152	Filtered	0.5 U	3.7	1.1	1.7
PZ-106	SMPZ-106-GW082610	Eu-152	Suspended	0.62 U	1.8	0.55	0.89
PZ-106	SMPZ-106-GW082610	Eu-152	Total	1.1	NA	1.2	NA
PZ-106	SMPZ-106-GW082610	Eu-154	Filtered	-0.9 U	12	3.3	5.4
PZ-106	SMPZ-106-GW082610	Eu-154	Suspended	-2 U	5.6	1.7	2.6
PZ-106	SMPZ-106-GW082610	Eu-154	Total	-2.9	NA	3.7	NA
PZ-106	SMPZ-106-GW082610	Eu-155	Filtered	0.1 U	3.5	1	1.7
PZ-106	SMPZ-106-GW082610	Eu-155	Suspended	0.45 U	1.2	0.35	0.56
PZ-106	SMPZ-106-GW082610	Eu-155	Total	0.6 SK	NA	1.1	NA
PZ-106	SMPZ-106-GW082610	gross_alpha	Filtered	6.68	0.53	0.55	0.29
PZ-106	SMPZ-106-GW082610	gross_alpha	Suspended	0.61	0.61	0.23	0.31
PZ-106	SMPZ-106-GW082610	gross_alpha	Total	7.3	NA	0.6	NA
PZ-106	SMPZ-106-GW082610	gross_beta	Filtered	9.7	2.5	1.2	1.4
PZ-106	SMPZ-106-GW082610	gross_beta	Suspended	0.36 U	0.71	0.22	0.42
PZ-106	SMPZ-106-GW082610	gross_beta	Total	10	NA	1.2	NA
PZ-106	SMPZ-106-GW082610	H-3	Filtered	13 U	130	40	66
PZ-106	SMPZ-106-GW082610	H-3	Suspended	-10.3 U R	25	6.1	11
PZ-106	SMPZ-106-GW082610	H-3	Total	3 R	NA	41	NA
PZ-106	SMPZ-106-GW082610	Ho-166m	Filtered	0.34 U	2.1	0.61	0.97
PZ-106	SMPZ-106-GW082610	Ho-166m	Suspended	0.01 U	1.2	0.36	0.59

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW082610	Ho-166m	Total	0.35 SK	NA	0.71	NA
PZ-106	SMPZ-106-GW082610	K-40	Filtered	-14 U	25	18	12
PZ-106	SMPZ-106-GW082610	K-40	Suspended	5.5 U	12	3.3	5.8
PZ-106	SMPZ-106-GW082610	K-40	Total	-9	NA	19	NA
PZ-106	SMPZ-106-GW082610	Na-22	Filtered	-0.14 U	2.2	0.61	1
PZ-106	SMPZ-106-GW082610	Na-22	Suspended	0 U	1.1	0.31	0.52
PZ-106	SMPZ-106-GW082610	Na-22	Total	-0.14	NA	0.69	NA
PZ-106	SMPZ-106-GW082610	Nb-94	Filtered	-0.16 U	1.4	0.4	0.64
PZ-106	SMPZ-106-GW082610	Nb-94	Suspended	-0.11 U	0.71	0.21	0.34
PZ-106	SMPZ-106-GW082610	Nb-94	Total	-0.27	NA	0.45	NA
PZ-106	SMPZ-106-GW082610	Np-236	Filtered	0.55 U	2.8	0.82	1.3
PZ-106	SMPZ-106-GW082610	Np-236	Suspended	-0.18 U	1.2	0.36	0.59
PZ-106	SMPZ-106-GW082610	Np-236	Total	0.37 SK	NA	0.9	NA
PZ-106	SMPZ-106-GW082610	Np-239	Filtered	2.1 U	9	2.7	4.4
PZ-106	SMPZ-106-GW082610	Np-239	Suspended	0.3 U	3.9	1.2	1.9
PZ-106	SMPZ-106-GW082610	Np-239	Total	2.4	NA	2.9	NA
PZ-106	SMPZ-106-GW082610	Pa-231	Filtered	-6 U	56	16	27
PZ-106	SMPZ-106-GW082610	Pa-231	Suspended	5.4 U	27	8	13
PZ-106	SMPZ-106-GW082610	Pa-231	Total	-0.3	NA	18	NA
PZ-106	SMPZ-106-GW082610	Pb-212	Filtered	2	3	1	1.4
PZ-106	SMPZ-106-GW082610	Pb-212	Suspended	-0.16 U	1.3	0.48	0.65
PZ-106	SMPZ-106-GW082610	Pb-212	Total	1.8	NA	1.1	NA
PZ-106	SMPZ-106-GW082610	Pb-214	Filtered	3.1	3.4	1.3	1.6
PZ-106	SMPZ-106-GW082610	Pb-214	Suspended	-0.58 U	1.5	0.69	0.72
PZ-106	SMPZ-106-GW082610	Pb-214	Total	2.5	NA	1.5	NA
PZ-106	SMPZ-106-GW082610	Sb-125	Filtered	-0.8 U	15	4.3	7.1
PZ-106	SMPZ-106-GW082610	Sb-125	Suspended	-1 U	6.6	2	3.2
PZ-106	SMPZ-106-GW082610	Sb-125	Total	-1.8 SK	NA	4.7	NA
PZ-106	SMPZ-106-GW082610	Sn-126	Filtered	-0.26 U	1.8	0.53	0.86
PZ-106	SMPZ-106-GW082610	Sn-126	Suspended	-0.01 U	0.84	0.24	0.4
PZ-106	SMPZ-106-GW082610	Sn-126	Total	-0.27	NA	0.59	NA
PZ-106	SMPZ-106-GW082610	Sr-90	Filtered	0.005 U	0.14	0.039	0.076
PZ-106	SMPZ-106-GW082610	Sr-90	Suspended	0.055 U	0.11	0.032	0.06
PZ-106	SMPZ-106-GW082610	Sr-90	Total	0.059	NA	0.051	NA
PZ-106	SMPZ-106-GW082610	Te-125m	Filtered	-0.19 U	3.4	0.99	1.6
PZ-106	SMPZ-106-GW082610	Te-125m	Suspended	-0.22 U	1.5	0.45	0.74
PZ-106	SMPZ-106-GW082610	Te-125m	Total	-0.4 SK	NA	1.1	NA
PZ-106	SMPZ-106-GW082610	Th-231	Filtered	0.148	0.028	0.028	0.008

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW082610	Th-231	Suspended	0.0026 U	0.0069	0.0026	0.006
PZ-106	SMPZ-106-GW082610	Th-231	Total	0.15	NA	0.028	NA
PZ-106	SMPZ-106-GW082610	Th-234	Filtered	7.3 U	22	7.1	11
PZ-106	SMPZ-106-GW082610	Th-234	Suspended	3 U	9.4	3.2	4.6
PZ-106	SMPZ-106-GW082610	Th-234	Total	10.4	NA	7.8	NA
PZ-106	SMPZ-106-GW082610	Tl-208	Filtered	-0.9 U	2.1	1.2	1
PZ-106	SMPZ-106-GW082610	Tl-208	Suspended	0.34 U	0.89	0.33	0.43
PZ-106	SMPZ-106-GW082610	Tl-208	Total	-0.6	NA	1.3	NA
PZ-106	SMPZ-106-GW082610	Tm-171	Filtered	55 U	250	73	120
PZ-106	SMPZ-106-GW082610	Tm-171	Suspended	20 U	140	41	68
PZ-106	SMPZ-106-GW082610	Tm-171	Total	75	NA	84	NA
PZ-106	SMPZ-106-GW082610	U-233/234	Filtered	3.26 K	0.02	0.18	0.007
PZ-106	SMPZ-106-GW082610	U-233/234	Suspended	0.0123	0.019	0.0065	0.0068
PZ-106	SMPZ-106-GW082610	U-233/234	Total	3.28	NA	0.18	NA
PZ-106	SMPZ-106-GW082610	U-235/236	Filtered	0.148	0.028	0.028	0.008
PZ-106	SMPZ-106-GW082610	U-235/236	Suspended	0.0026 U	0.0069	0.0026	0.006
PZ-106	SMPZ-106-GW082610	U-235/236	Total	0.15	NA	0.028	NA
PZ-106	SMPZ-106-GW082610	U-238	Filtered	2.95	0.01	0.16	0.007
PZ-106	SMPZ-106-GW082610	U-238	Suspended	0.0123	0.0056	0.0051	0.0048
PZ-106	SMPZ-106-GW082610	U-238	Total	2.96	NA	0.16	NA
PZ-108	SMPZ-108-GW082710	Ac-227	Filtered	0 U	10	3.1	5.1
PZ-108	SMPZ-108-GW082710	Ac-227	Suspended	-1.2 U	4	1.2	1.9
PZ-108	SMPZ-108-GW082710	Ac-227	Total	-1.2	NA	3.3	NA
PZ-108	SMPZ-108-GW082710	Ac-228	Filtered	-0.08 U	4.9	1.4	2.2
PZ-108	SMPZ-108-GW082710	Ac-228	Suspended	1.37	2.2	0.68	1
PZ-108	SMPZ-108-GW082710	Ac-228	Total	1.3	NA	1.5	NA
PZ-108	SMPZ-108-GW082710	Ag-108	Filtered	0.033 U R	0.094	0.028	0.044
PZ-108	SMPZ-108-GW082710	Ag-108	Suspended	0.015 U R	0.047	0.014	0.022
PZ-108	SMPZ-108-GW082710	Ag-108	Total	0.048 R	NA	0.031	NA
PZ-108	SMPZ-108-GW082710	Ag-108m	Filtered	0.36 U R	1	0.3	0.47
PZ-108	SMPZ-108-GW082710	Ag-108m	Suspended	0.16 U R	0.5	0.15	0.24
PZ-108	SMPZ-108-GW082710	Ag-108m	Total	0.52 R	NA	0.34	NA
PZ-108	SMPZ-108-GW082710	Ba-133	Filtered	2.9 U R	12	3.6	5.7
PZ-108	SMPZ-108-GW082710	Ba-133	Suspended	0.7 U R	5.9	1.7	2.8
PZ-108	SMPZ-108-GW082710	Ba-133	Total	3.6 R	NA	4	NA
PZ-108	SMPZ-108-GW082710	Ba-137m	Filtered	0.42 U	1.3	0.39	0.62
PZ-108	SMPZ-108-GW082710	Ba-137m	Suspended	-0.35 U	0.78	0.62	0.37
PZ-108	SMPZ-108-GW082710	Ba-137m	Total	0.07	NA	0.74	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW082710	Bi-212	Filtered	0 U	13	3.6	5.9
PZ-108	SMPZ-108-GW082710	Bi-212	Suspended	2 U	5	1.5	2.3
PZ-108	SMPZ-108-GW082710	Bi-212	Total	2	NA	3.9	NA
PZ-108	SMPZ-108-GW082710	Bi-214	Filtered	2.7	2.6	1.1	1.2
PZ-108	SMPZ-108-GW082710	Bi-214	Suspended	0.62	1.2	0.41	0.55
PZ-108	SMPZ-108-GW082710	Bi-214	Total	3.3	NA	1.1	NA
PZ-108	SMPZ-108-GW082710	Cd-113m	Filtered	2300 U	15000	4400	7200
PZ-108	SMPZ-108-GW082710	Cd-113m	Suspended	-300 U	6700	2000	3200
PZ-108	SMPZ-108-GW082710	Cd-113m	Total	1900	NA	4800	NA
PZ-108	SMPZ-108-GW082710	Cf-249	Filtered	-0.2 U R	7.4	2.2	3.6
PZ-108	SMPZ-108-GW082710	Cf-249	Suspended	1.15 U R	2.5	0.75	1.2
PZ-108	SMPZ-108-GW082710	Cf-249	Total	1 R	NA	2.3	NA
PZ-108	SMPZ-108-GW082710	Co-60	Filtered	0 U	1.8	0.5	0.83
PZ-108	SMPZ-108-GW082710	Co-60	Suspended	0.11 U	0.76	0.22	0.35
PZ-108	SMPZ-108-GW082710	Co-60	Total	0.11	NA	0.55	NA
PZ-108	SMPZ-108-GW082710	Cs-134	Filtered	-0.33 U	1.5	0.45	0.72
PZ-108	SMPZ-108-GW082710	Cs-134	Suspended	-0.01 U	0.78	0.23	0.37
PZ-108	SMPZ-108-GW082710	Cs-134	Total	-0.34	NA	0.5	NA
PZ-108	SMPZ-108-GW082710	Cs-137	Filtered	0.44 U	1.4	0.42	0.66
PZ-108	SMPZ-108-GW082710	Cs-137	Suspended	-0.37 U	0.82	0.66	0.39
PZ-108	SMPZ-108-GW082710	Cs-137	Total	0.08	NA	0.78	NA
PZ-108	SMPZ-108-GW082710	Eu-152	Filtered	0.003 U	3.4	0.97	1.6
PZ-108	SMPZ-108-GW082710	Eu-152	Suspended	0.8	1.4	0.42	0.66
PZ-108	SMPZ-108-GW082710	Eu-152	Total	0.8	NA	1.1	NA
PZ-108	SMPZ-108-GW082710	Eu-154	Filtered	2.6 U	11	3.3	5.2
PZ-108	SMPZ-108-GW082710	Eu-154	Suspended	1 U	5.2	1.5	2.4
PZ-108	SMPZ-108-GW082710	Eu-154	Total	3.7	NA	3.6	NA
PZ-108	SMPZ-108-GW082710	Eu-155	Filtered	-0.09 U	3.1	0.9	1.5
PZ-108	SMPZ-108-GW082710	Eu-155	Suspended	0.3 U	1.2	0.36	0.58
PZ-108	SMPZ-108-GW082710	Eu-155	Total	0.21	NA	0.97	NA
PZ-108	SMPZ-108-GW082710	gross_alpha	Filtered	32.5	0.4	1.6	0.2
PZ-108	SMPZ-108-GW082710	gross_alpha	Suspended	0.63	0.51	0.2	0.27
PZ-108	SMPZ-108-GW082710	gross_alpha	Total	33.1	NA	1.7	NA
PZ-108	SMPZ-108-GW082710	gross_beta	Filtered	26.1	2.2	1.7	1.2
PZ-108	SMPZ-108-GW082710	gross_beta	Suspended	0.01 U	0.69	0.19	0.41
PZ-108	SMPZ-108-GW082710	gross_beta	Total	26.1	NA	1.7	NA
PZ-108	SMPZ-108-GW082710	H-3	Filtered	-13 U	130	40	66
PZ-108	SMPZ-108-GW082710	H-3	Suspended	3.4 U R	21	5.9	9.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW082710	H-3	Total	-10 R	NA	41	NA
PZ-108	SMPZ-108-GW082710	H-3_Total	Filtered	-13.4 U	35	9.2	16
PZ-108	SMPZ-108-GW082710	H-3_Total	Suspended	3.4 U R	18	5.1	8.1
PZ-108	SMPZ-108-GW082710	H-3_Total	Total	-10 R	NA	11	NA
PZ-108	SMPZ-108-GW082710	Ho-166m	Filtered	0.18 U	2.1	0.61	0.99
PZ-108	SMPZ-108-GW082710	Ho-166m	Suspended	-0.06 U	0.89	0.25	0.41
PZ-108	SMPZ-108-GW082710	Ho-166m	Total	0.12	NA	0.66	NA
PZ-108	SMPZ-108-GW082710	K-40	Filtered	-7 U	24	12	11
PZ-108	SMPZ-108-GW082710	K-40	Suspended	-5.5 U	11	6.2	5
PZ-108	SMPZ-108-GW082710	K-40	Total	-13	NA	14	NA
PZ-108	SMPZ-108-GW082710	Na-22	Filtered	0.13 U	1.7	0.49	0.79
PZ-108	SMPZ-108-GW082710	Na-22	Suspended	-0.14 U	0.94	0.27	0.43
PZ-108	SMPZ-108-GW082710	Na-22	Total	-0.007	NA	0.56	NA
PZ-108	SMPZ-108-GW082710	Nb-94	Filtered	0.4 U	1.2	0.34	0.54
PZ-108	SMPZ-108-GW082710	Nb-94	Suspended	-0.19 U	0.58	0.17	0.27
PZ-108	SMPZ-108-GW082710	Nb-94	Total	0.21	NA	0.38	NA
PZ-108	SMPZ-108-GW082710	Np-236	Filtered	-0.49 U	2.6	0.77	1.2
PZ-108	SMPZ-108-GW082710	Np-236	Suspended	-0.01 U	1.1	0.34	0.56
PZ-108	SMPZ-108-GW082710	Np-236	Total	-0.5	NA	0.84	NA
PZ-108	SMPZ-108-GW082710	Np-239	Filtered	-1.1 U	8.6	2.6	4.2
PZ-108	SMPZ-108-GW082710	Np-239	Suspended	-0.32 U	2.9	0.86	1.4
PZ-108	SMPZ-108-GW082710	Np-239	Total	-1.4	NA	2.7	NA
PZ-108	SMPZ-108-GW082710	Pa-231	Filtered	19 U	55	17	27
PZ-108	SMPZ-108-GW082710	Pa-231	Suspended	-3.8 U	25	7.4	12
PZ-108	SMPZ-108-GW082710	Pa-231	Total	15	NA	18	NA
PZ-108	SMPZ-108-GW082710	Pb-212	Filtered	1.2	2.3	0.83	1.1
PZ-108	SMPZ-108-GW082710	Pb-212	Suspended	0.61	0.93	0.29	0.44
PZ-108	SMPZ-108-GW082710	Pb-212	Total	1.8	NA	0.88	NA
PZ-108	SMPZ-108-GW082710	Pb-214	Filtered	0.24 U	2.9	0.79	1.4
PZ-108	SMPZ-108-GW082710	Pb-214	Suspended	1.11	1.2	0.37	0.55
PZ-108	SMPZ-108-GW082710	Pb-214	Total	1.35	NA	0.87	NA
PZ-108	SMPZ-108-GW082710	Sb-125	Filtered	4.7 U	12	3.5	5.6
PZ-108	SMPZ-108-GW082710	Sb-125	Suspended	0.5 U	5.9	1.7	2.9
PZ-108	SMPZ-108-GW082710	Sb-125	Total	5.2	NA	3.9	NA
PZ-108	SMPZ-108-GW082710	Sn-126	Filtered	0.47 U	1.4	0.43	0.67
PZ-108	SMPZ-108-GW082710	Sn-126	Suspended	0.36	0.63	0.19	0.29
PZ-108	SMPZ-108-GW082710	Sn-126	Total	0.84	NA	0.47	NA
PZ-108	SMPZ-108-GW082710	Sr-90	Filtered	0.072 U	0.2	0.061	0.12

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW082710	Sr-90	Suspended	-0.021 U	0.15	0.042	0.091
PZ-108	SMPZ-108-GW082710	Sr-90	Total	0.052	NA	0.074	NA
PZ-108	SMPZ-108-GW082710	Te-125m	Filtered	1.1 U	2.7	0.81	1.3
PZ-108	SMPZ-108-GW082710	Te-125m	Suspended	0.12 U	1.4	0.4	0.66
PZ-108	SMPZ-108-GW082710	Te-125m	Total	1.21	NA	0.9	NA
PZ-108	SMPZ-108-GW082710	Th-231	Filtered	0.938	0.023	0.067	0.007
PZ-108	SMPZ-108-GW082710	Th-231	Suspended	-0.0048 U	0.039	0.0034	0.013
PZ-108	SMPZ-108-GW082710	Th-231	Total	0.934	NA	0.067	NA
PZ-108	SMPZ-108-GW082710	Th-234	Filtered	23.1	24	8.4	12
PZ-108	SMPZ-108-GW082710	Th-234	Suspended	2.8 U	7.8	2.8	3.8
PZ-108	SMPZ-108-GW082710	Th-234	Total	25.9	NA	8.9	NA
PZ-108	SMPZ-108-GW082710	Tl-208	Filtered	0.06 U	1.7	0.45	0.8
PZ-108	SMPZ-108-GW082710	Tl-208	Suspended	-0.58 U	0.88	0.64	0.42
PZ-108	SMPZ-108-GW082710	Tl-208	Total	-0.52	NA	0.79	NA
PZ-108	SMPZ-108-GW082710	Tm-171	Filtered	160 U	360	110	170
PZ-108	SMPZ-108-GW082710	Tm-171	Suspended	-131 R U	130	41	64
PZ-108	SMPZ-108-GW082710	Tm-171	Total	20	NA	120	NA
PZ-108	SMPZ-108-GW082710	U-233/234	Filtered	18.3	0.007	0.8	0.006
PZ-108	SMPZ-108-GW082710	U-233/234	Suspended	0.059	0.046	0.021	0.019
PZ-108	SMPZ-108-GW082710	U-233/234	Total	18.3	NA	0.8	NA
PZ-108	SMPZ-108-GW082710	U-235/236	Filtered	0.938	0.023	0.067	0.007
PZ-108	SMPZ-108-GW082710	U-235/236	Suspended	-0.0048 U	0.039	0.0034	0.013
PZ-108	SMPZ-108-GW082710	U-235/236	Total	0.934	NA	0.067	NA
PZ-108	SMPZ-108-GW082710	U-238	Filtered	18	0.007	0.79	0.006
PZ-108	SMPZ-108-GW082710	U-238	Suspended	0.069 K	0.035	0.021	0.013
PZ-108	SMPZ-108-GW082710	U-238	Total	18.1	NA	0.79	NA
PZ-109	SMPZ-109-GW082510	Ac-227	Filtered	-0.6 U	7	2.1	3.4
PZ-109	SMPZ-109-GW082510	Ac-227	Suspended	0.9 U	4.1	1.2	2
PZ-109	SMPZ-109-GW082510	Ac-227	Total	0.3	NA	2.4	NA
PZ-109	SMPZ-109-GW082510	Ac-228	Filtered	0 U	5.7	1.6	2.6
PZ-109	SMPZ-109-GW082510	Ac-228	Suspended	-1.6 U B	3.2	2	1.5
PZ-109	SMPZ-109-GW082510	Ac-228	Total	-1.6	NA	2.6	NA
PZ-109	SMPZ-109-GW082510	Ag-108	Filtered	0.047 R	0.094	0.029	0.044
PZ-109	SMPZ-109-GW082510	Ag-108	Suspended	-0.005 U R	0.049	0.014	0.024
PZ-109	SMPZ-109-GW082510	Ag-108	Total	0.042 R	NA	0.032	NA
PZ-109	SMPZ-109-GW082510	Ag-108m	Filtered	0.51 R	1	0.31	0.47
PZ-109	SMPZ-109-GW082510	Ag-108m	Suspended	-0.06 U R	0.53	0.16	0.25
PZ-109	SMPZ-109-GW082510	Ag-108m	Total	0.45 R	NA	0.34	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW082510	Ba-133	Filtered	2.1 U R	13	3.8	6.2
PZ-109	SMPZ-109-GW082510	Ba-133	Suspended	0.5 U R	5.8	1.7	2.8
PZ-109	SMPZ-109-GW082510	Ba-133	Total	2.6 R	NA	4.2	NA
PZ-109	SMPZ-109-GW082510	Ba-137m	Filtered	0 U	1.2	0.34	0.56
PZ-109	SMPZ-109-GW082510	Ba-137m	Suspended	0.2 U	0.72	0.21	0.34
PZ-109	SMPZ-109-GW082510	Ba-137m	Total	0.2	NA	0.4	NA
PZ-109	SMPZ-109-GW082510	Bi-212	Filtered	1.2 U	6.8	1.9	3
PZ-109	SMPZ-109-GW082510	Bi-212	Suspended	4.4	5.6	1.8	2.6
PZ-109	SMPZ-109-GW082510	Bi-212	Total	5.6	NA	2.6	NA
PZ-109	SMPZ-109-GW082510	Bi-214	Filtered	4.78	2.3	0.85	1.1
PZ-109	SMPZ-109-GW082510	Bi-214	Suspended	-0.44 U	1.7	0.64	0.81
PZ-109	SMPZ-109-GW082510	Bi-214	Total	4.3	NA	1.1	NA
PZ-109	SMPZ-109-GW082510	Cd-113m	Filtered	7500	11000	3400	5200
PZ-109	SMPZ-109-GW082510	Cd-113m	Suspended	1100 U	7000	2100	3400
PZ-109	SMPZ-109-GW082510	Cd-113m	Total	8600	NA	4000	NA
PZ-109	SMPZ-109-GW082510	Cf-249	Filtered	0.5 U R	6.1	1.8	2.9
PZ-109	SMPZ-109-GW082510	Cf-249	Suspended	-0.01 U R	2.4	0.69	1.1
PZ-109	SMPZ-109-GW082510	Cf-249	Total	0.5 R	NA	1.9	NA
PZ-109	SMPZ-109-GW082510	Co-60	Filtered	-0.03 U	1.7	0.48	0.79
PZ-109	SMPZ-109-GW082510	Co-60	Suspended	0.1 U	0.65	0.19	0.3
PZ-109	SMPZ-109-GW082510	Co-60	Total	0.07	NA	0.52	NA
PZ-109	SMPZ-109-GW082510	Cs-134	Filtered	0.07 U	2.5	0.75	1.2
PZ-109	SMPZ-109-GW082510	Cs-134	Suspended	-0.24 U	0.89	0.27	0.43
PZ-109	SMPZ-109-GW082510	Cs-134	Total	-0.18 SK	NA	0.8	NA
PZ-109	SMPZ-109-GW082510	Cs-137	Filtered	0 U	1.3	0.36	0.59
PZ-109	SMPZ-109-GW082510	Cs-137	Suspended	0.21 U	0.76	0.23	0.36
PZ-109	SMPZ-109-GW082510	Cs-137	Total	0.21	NA	0.43	NA
PZ-109	SMPZ-109-GW082510	Eu-152	Filtered	0.6 U	3.6	1.1	1.7
PZ-109	SMPZ-109-GW082510	Eu-152	Suspended	-0.4 U	1.9	0.56	0.91
PZ-109	SMPZ-109-GW082510	Eu-152	Total	0.2	NA	1.2	NA
PZ-109	SMPZ-109-GW082510	Eu-154	Filtered	3.2 U	12	3.4	5.3
PZ-109	SMPZ-109-GW082510	Eu-154	Suspended	0.3 U	7.5	2.2	3.6
PZ-109	SMPZ-109-GW082510	Eu-154	Total	3.5	NA	4	NA
PZ-109	SMPZ-109-GW082510	Eu-155	Filtered	-0.04 U	3.2	0.95	1.6
PZ-109	SMPZ-109-GW082510	Eu-155	Suspended	0.3 U	1.3	0.38	0.61
PZ-109	SMPZ-109-GW082510	Eu-155	Total	0.3 SK	NA	1	NA
PZ-109	SMPZ-109-GW082510	gross_alpha	Filtered	11.7	0.42	0.76	0.22
PZ-109	SMPZ-109-GW082510	gross_alpha	Suspended	0.34	0.6	0.19	0.31

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW082510	gross_alpha	Total	12	NA	0.78	NA
PZ-109	SMPZ-109-GW082510	gross_beta	Filtered	8.5	2.3	1.1	1.3
PZ-109	SMPZ-109-GW082510	gross_beta	Suspended	0.69	0.8	0.26	0.48
PZ-109	SMPZ-109-GW082510	gross_beta	Total	9.1	NA	1.1	NA
PZ-109	SMPZ-109-GW082510	H-3	Filtered	62 U	130	40	64
PZ-109	SMPZ-109-GW082510	H-3	Suspended	-16.3 R U	24	5.3	11
PZ-109	SMPZ-109-GW082510	H-3	Total	46 R	NA	40	NA
PZ-109	SMPZ-109-GW082510	Ho-166m	Filtered	-0.25 U	2.4	0.69	1.1
PZ-109	SMPZ-109-GW082510	Ho-166m	Suspended	0.04 U	1.2	0.34	0.55
PZ-109	SMPZ-109-GW082510	Ho-166m	Total	-0.21 SK	NA	0.77	NA
PZ-109	SMPZ-109-GW082510	K-40	Filtered	-13 U	23	17	11
PZ-109	SMPZ-109-GW082510	K-40	Suspended	0.5 U	12	3.3	5.7
PZ-109	SMPZ-109-GW082510	K-40	Total	-12	NA	17	NA
PZ-109	SMPZ-109-GW082510	Na-22	Filtered	0.17 U	1.5	0.43	0.68
PZ-109	SMPZ-109-GW082510	Na-22	Suspended	0.2 U	0.8	0.23	0.37
PZ-109	SMPZ-109-GW082510	Na-22	Total	0.37	NA	0.49	NA
PZ-109	SMPZ-109-GW082510	Nb-94	Filtered	0.13 U	1.2	0.36	0.58
PZ-109	SMPZ-109-GW082510	Nb-94	Suspended	-0.03 U	0.59	0.17	0.28
PZ-109	SMPZ-109-GW082510	Nb-94	Total	0.1	NA	0.4	NA
PZ-109	SMPZ-109-GW082510	Np-236	Filtered	-0.52 U	2.7	0.8	1.3
PZ-109	SMPZ-109-GW082510	Np-236	Suspended	0.12 U	1.3	0.37	0.61
PZ-109	SMPZ-109-GW082510	Np-236	Total	-0.4 SK	NA	0.88	NA
PZ-109	SMPZ-109-GW082510	Np-239	Filtered	-0.6 U	8.1	2.4	3.9
PZ-109	SMPZ-109-GW082510	Np-239	Suspended	0.9 U	3.6	1.1	1.8
PZ-109	SMPZ-109-GW082510	Np-239	Total	0.4	NA	2.6	NA
PZ-109	SMPZ-109-GW082510	Pa-231	Filtered	0.9 U	54	16	26
PZ-109	SMPZ-109-GW082510	Pa-231	Suspended	2.4 U	27	7.9	13
PZ-109	SMPZ-109-GW082510	Pa-231	Total	3	NA	17	NA
PZ-109	SMPZ-109-GW082510	Pb-212	Filtered	1.67	2.3	0.84	1.1
PZ-109	SMPZ-109-GW082510	Pb-212	Suspended	0.98	1.3	0.48	0.64
PZ-109	SMPZ-109-GW082510	Pb-212	Total	2.65	NA	0.97	NA
PZ-109	SMPZ-109-GW082510	Pb-214	Filtered	2.49	2.3	0.75	1.1
PZ-109	SMPZ-109-GW082510	Pb-214	Suspended	-0.13 U	1.5	0.51	0.71
PZ-109	SMPZ-109-GW082510	Pb-214	Total	2.37	NA	0.91	NA
PZ-109	SMPZ-109-GW082510	Sb-125	Filtered	-0.2 U	13	3.8	6.3
PZ-109	SMPZ-109-GW082510	Sb-125	Suspended	2.5 U	6.1	1.8	3
PZ-109	SMPZ-109-GW082510	Sb-125	Total	2.3 SK	NA	4.2	NA
PZ-109	SMPZ-109-GW082510	Sn-126	Filtered	0.47 U	1.3	0.39	0.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW082510	Sn-126	Suspended	0.11 U	0.81	0.24	0.39
PZ-109	SMPZ-109-GW082510	Sn-126	Total	0.58	NA	0.46	NA
PZ-109	SMPZ-109-GW082510	Sr-90	Filtered	0.023 U	0.093	0.028	0.053
PZ-109	SMPZ-109-GW082510	Sr-90	Suspended	0.005 U	0.11	0.033	0.064
PZ-109	SMPZ-109-GW082510	Sr-90	Total	0.029	NA	0.043	NA
PZ-109	SMPZ-109-GW082510	Te-125m	Filtered	-0.05 U	3	0.88	1.4
PZ-109	SMPZ-109-GW082510	Te-125m	Suspended	0.58 U	1.4	0.43	0.68
PZ-109	SMPZ-109-GW082510	Te-125m	Total	0.53 SK	NA	0.98	NA
PZ-109	SMPZ-109-GW082510	Th-231	Filtered	0.247	0.014	0.037	0.008
PZ-109	SMPZ-109-GW082510	Th-231	Suspended	0.0077	0.0069	0.0044	0.0059
PZ-109	SMPZ-109-GW082510	Th-231	Total	0.254	NA	0.037	NA
PZ-109	SMPZ-109-GW082510	Th-234	Filtered	15.2	23	7.6	11
PZ-109	SMPZ-109-GW082510	Th-234	Suspended	2.3 U	8.9	3	4.4
PZ-109	SMPZ-109-GW082510	Th-234	Total	17.6	NA	8.2	NA
PZ-109	SMPZ-109-GW082510	Tl-208	Filtered	0.84	1.4	0.53	0.67
PZ-109	SMPZ-109-GW082510	Tl-208	Suspended	0.38 U	0.85	0.31	0.41
PZ-109	SMPZ-109-GW082510	Tl-208	Total	1.22	NA	0.61	NA
PZ-109	SMPZ-109-GW082510	Tm-171	Filtered	-150 U	350	110	170
PZ-109	SMPZ-109-GW082510	Tm-171	Suspended	-18 U	130	40	65
PZ-109	SMPZ-109-GW082510	Tm-171	Total	-170	NA	110	NA
PZ-109	SMPZ-109-GW082510	U-233/234	Filtered	5.4 K	0.03	0.27	0.009
PZ-109	SMPZ-109-GW082510	U-233/234	Suspended	0.0209	0.014	0.0071	0.0043
PZ-109	SMPZ-109-GW082510	U-233/234	Total	5.42	NA	0.27	NA
PZ-109	SMPZ-109-GW082510	U-235/236	Filtered	0.247	0.014	0.037	0.008
PZ-109	SMPZ-109-GW082510	U-235/236	Suspended	0.0077	0.0069	0.0044	0.0059
PZ-109	SMPZ-109-GW082510	U-235/236	Total	0.254	NA	0.037	NA
PZ-109	SMPZ-109-GW082510	U-238	Filtered	4.99	0.01	0.25	0.007
PZ-109	SMPZ-109-GW082510	U-238	Suspended	0.0205	0.0055	0.0065	0.0048
PZ-109	SMPZ-109-GW082510	U-238	Total	5.01	NA	0.25	NA
PZ-112	SMPZ-112-GW083110	Ac-227	Filtered	4	6.4	2	3.1
PZ-112	SMPZ-112-GW083110	Ac-227	Suspended	-4.2 U	8.3	2.5	4
PZ-112	SMPZ-112-GW083110	Ac-227	Total	-0.2	NA	3.2	NA
PZ-112	SMPZ-112-GW083110	Ac-228	Filtered	3.3	3.9	1.2	1.8
PZ-112	SMPZ-112-GW083110	Ac-228	Suspended	2.2	4.1	1.2	1.9
PZ-112	SMPZ-112-GW083110	Ac-228	Total	5.5	NA	1.8	NA
PZ-112	SMPZ-112-GW083110	Ag-108	Filtered	-0.017 U R	0.1	0.031	0.05
PZ-112	SMPZ-112-GW083110	Ag-108	Suspended	-0.018 U R	0.097	0.029	0.046
PZ-112	SMPZ-112-GW083110	Ag-108	Total	-0.035 R	NA	0.042	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW083110	Ag-108m	Filtered	-0.19 U R	1.1	0.33	0.54
PZ-112	SMPZ-112-GW083110	Ag-108m	Suspended	-0.19 U R	1	0.31	0.5
PZ-112	SMPZ-112-GW083110	Ag-108m	Total	-0.38 R	NA	0.45	NA
PZ-112	SMPZ-112-GW083110	Ba-133	Filtered	-4 U R	12	3.5	5.7
PZ-112	SMPZ-112-GW083110	Ba-133	Suspended	-1.4 U R	11	3.3	5.5
PZ-112	SMPZ-112-GW083110	Ba-133	Total	-5.4 R	NA	4.9	NA
PZ-112	SMPZ-112-GW083110	Ba-137m	Filtered	-0.24 U	1.1	0.33	0.54
PZ-112	SMPZ-112-GW083110	Ba-137m	Suspended	-0.14 U	1.3	0.38	0.62
PZ-112	SMPZ-112-GW083110	Ba-137m	Total	-0.38	NA	0.5	NA
PZ-112	SMPZ-112-GW083110	Bi-212	Filtered	-0.4 U	11	3.6	5.4
PZ-112	SMPZ-112-GW083110	Bi-212	Suspended	8	9.4	3	4.4
PZ-112	SMPZ-112-GW083110	Bi-212	Total	7.6	NA	4.7	NA
PZ-112	SMPZ-112-GW083110	Bi-214	Filtered	0.99 U	2.9	0.98	1.4
PZ-112	SMPZ-112-GW083110	Bi-214	Suspended	2.3	3	1.2	1.4
PZ-112	SMPZ-112-GW083110	Bi-214	Total	3.3	NA	1.5	NA
PZ-112	SMPZ-112-GW083110	Cd-113m	Filtered	3200 U	14000	4000	6500
PZ-112	SMPZ-112-GW083110	Cd-113m	Suspended	3300 U	13000	3800	6100
PZ-112	SMPZ-112-GW083110	Cd-113m	Total	6400	NA	5500	NA
PZ-112	SMPZ-112-GW083110	Cf-249	Filtered	1.5 U R	5.9	1.8	2.9
PZ-112	SMPZ-112-GW083110	Cf-249	Suspended	0.9 U R	5.3	1.6	2.5
PZ-112	SMPZ-112-GW083110	Cf-249	Total	2.5 R	NA	2.4	NA
PZ-112	SMPZ-112-GW083110	Co-60	Filtered	-0.009 U	1.3	0.36	0.59
PZ-112	SMPZ-112-GW083110	Co-60	Suspended	-0.03 U	1.5	0.42	0.69
PZ-112	SMPZ-112-GW083110	Co-60	Total	-0.04	NA	0.55	NA
PZ-112	SMPZ-112-GW083110	Cs-134	Filtered	0.28 U	1.3	0.4	0.65
PZ-112	SMPZ-112-GW083110	Cs-134	Suspended	-0.01 U	1.6	0.45	0.75
PZ-112	SMPZ-112-GW083110	Cs-134	Total	0.27 SK	NA	0.6	NA
PZ-112	SMPZ-112-GW083110	Cs-137	Filtered	-0.26 U	1.2	0.35	0.57
PZ-112	SMPZ-112-GW083110	Cs-137	Suspended	-0.14 U	1.4	0.4	0.65
PZ-112	SMPZ-112-GW083110	Cs-137	Total	-0.4	NA	0.53	NA
PZ-112	SMPZ-112-GW083110	Eu-152	Filtered	-0.29 U	3.2	0.94	1.5
PZ-112	SMPZ-112-GW083110	Eu-152	Suspended	0.02 U	2.3	0.66	1.1
PZ-112	SMPZ-112-GW083110	Eu-152	Total	-0.3	NA	1.1	NA
PZ-112	SMPZ-112-GW083110	Eu-154	Filtered	-1.3 U	9.8	2.9	4.6
PZ-112	SMPZ-112-GW083110	Eu-154	Suspended	1.8 U	11	3.1	5
PZ-112	SMPZ-112-GW083110	Eu-154	Total	0.5	NA	4.2	NA
PZ-112	SMPZ-112-GW083110	Eu-155	Filtered	1.1 U	3.4	1	1.7
PZ-112	SMPZ-112-GW083110	Eu-155	Suspended	0.53 U	2.3	0.69	1.1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW083110	Eu-155	Total	1.7 SK	NA	1.2	NA
PZ-112	SMPZ-112-GW083110	gross_alpha	Filtered	1.55	0.39	0.24	0.2
PZ-112	SMPZ-112-GW083110	gross_alpha	Suspended	1.43	0.5	0.26	0.26
PZ-112	SMPZ-112-GW083110	gross_alpha	Total	2.98	NA	0.36	NA
PZ-112	SMPZ-112-GW083110	gross_beta	Filtered	3.36	2.3	0.82	1.4
PZ-112	SMPZ-112-GW083110	gross_beta	Suspended	3.06	0.78	0.37	0.45
PZ-112	SMPZ-112-GW083110	gross_beta	Total	6.43	NA	0.9	NA
PZ-112	SMPZ-112-GW083110	H-3	Filtered	57 U B	130	39	63
PZ-112	SMPZ-112-GW083110	H-3	Suspended	-12.2 L U	19	4.4	8.7
PZ-112	SMPZ-112-GW083110	H-3	Total	45 RB	NA	39	NA
PZ-112	SMPZ-112-GW083110	Ho-166m	Filtered	0.06 U	2	0.57	0.94
PZ-112	SMPZ-112-GW083110	Ho-166m	Suspended	0.33 U	1.9	0.56	0.9
PZ-112	SMPZ-112-GW083110	Ho-166m	Total	0.39 SK	NA	0.8	NA
PZ-112	SMPZ-112-GW083110	K-40	Filtered	0.4 U	25	6.2	12
PZ-112	SMPZ-112-GW083110	K-40	Suspended	-4.1 U	19	5.9	9
PZ-112	SMPZ-112-GW083110	K-40	Total	-3.7	NA	8.5	NA
PZ-112	SMPZ-112-GW083110	Na-22	Filtered	0.007 U	1.5	0.41	0.68
PZ-112	SMPZ-112-GW083110	Na-22	Suspended	0.24 U	1.5	0.44	0.71
PZ-112	SMPZ-112-GW083110	Na-22	Total	0.24	NA	0.6	NA
PZ-112	SMPZ-112-GW083110	Nb-94	Filtered	0.53 U	1.2	0.35	0.56
PZ-112	SMPZ-112-GW083110	Nb-94	Suspended	-0.32 U	1.3	0.39	0.62
PZ-112	SMPZ-112-GW083110	Nb-94	Total	0.21	NA	0.52	NA
PZ-112	SMPZ-112-GW083110	Np-236	Filtered	0 U	3.2	0.96	1.6
PZ-112	SMPZ-112-GW083110	Np-236	Suspended	-0.24 U	2.2	0.65	1.1
PZ-112	SMPZ-112-GW083110	Np-236	Total	-0.2 SK	NA	1.2	NA
PZ-112	SMPZ-112-GW083110	Np-239	Filtered	-0.3 U	7.6	2.2	3.7
PZ-112	SMPZ-112-GW083110	Np-239	Suspended	-1.3 U	7.1	2.1	3.4
PZ-112	SMPZ-112-GW083110	Np-239	Total	-1.6	NA	3.1	NA
PZ-112	SMPZ-112-GW083110	Pa-231	Filtered	16 U	53	16	26
PZ-112	SMPZ-112-GW083110	Pa-231	Suspended	18 U	46	14	22
PZ-112	SMPZ-112-GW083110	Pa-231	Total	34	NA	21	NA
PZ-112	SMPZ-112-GW083110	Pb-212	Filtered	1.4	2.9	0.93	1.4
PZ-112	SMPZ-112-GW083110	Pb-212	Suspended	2.18	2.5	0.99	1.2
PZ-112	SMPZ-112-GW083110	Pb-212	Total	3.6	NA	1.4	NA
PZ-112	SMPZ-112-GW083110	Pb-214	Filtered	-0.26 U	3	0.9	1.5
PZ-112	SMPZ-112-GW083110	Pb-214	Suspended	0.03 U	2.5	0.8	1.2
PZ-112	SMPZ-112-GW083110	Pb-214	Total	-0.2	NA	1.2	NA
PZ-112	SMPZ-112-GW083110	Sb-125	Filtered	1.8 U	13	3.8	6.1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW083110	Sb-125	Suspended	-0.1 U	11	3.2	5.3
PZ-112	SMPZ-112-GW083110	Sb-125	Total	1.7 SK	NA	5	NA
PZ-112	SMPZ-112-GW083110	Sn-126	Filtered	0.3 U	1.3	0.4	0.64
PZ-112	SMPZ-112-GW083110	Sn-126	Suspended	0.11 U	1.6	0.46	0.75
PZ-112	SMPZ-112-GW083110	Sn-126	Total	0.41	NA	0.61	NA
PZ-112	SMPZ-112-GW083110	Sr-90	Filtered	-0.073 U	0.15	0.038	0.089
PZ-112	SMPZ-112-GW083110	Sr-90	Suspended	-0.013 U	0.11	0.031	0.061
PZ-112	SMPZ-112-GW083110	Sr-90	Total	-0.086	NA	0.049	NA
PZ-112	SMPZ-112-GW083110	Te-125m	Filtered	0.42 U	2.9	0.87	1.4
PZ-112	SMPZ-112-GW083110	Te-125m	Suspended	-0.03 U	2.5	0.75	1.2
PZ-112	SMPZ-112-GW083110	Te-125m	Total	0.4 SK	NA	1.1	NA
PZ-112	SMPZ-112-GW083110	Th-231	Filtered	0.0214	0.0083	0.0081	0.0071
PZ-112	SMPZ-112-GW083110	Th-231	Suspended	0.0029 U	0.043	0.0094	0.017
PZ-112	SMPZ-112-GW083110	Th-231	Total	0.024	NA	0.012	NA
PZ-112	SMPZ-112-GW083110	Th-234	Filtered	8.5 U	23	7.5	11
PZ-112	SMPZ-112-GW083110	Th-234	Suspended	4.7 U	14	4.6	6.7
PZ-112	SMPZ-112-GW083110	Th-234	Total	13.2	NA	8.8	NA
PZ-112	SMPZ-112-GW083110	Tl-208	Filtered	1.11	1.7	0.64	0.82
PZ-112	SMPZ-112-GW083110	Tl-208	Suspended	1.37	1.5	0.61	0.73
PZ-112	SMPZ-112-GW083110	Tl-208	Total	2.48	NA	0.88	NA
PZ-112	SMPZ-112-GW083110	Tm-171	Filtered	180 U	420	130	200
PZ-112	SMPZ-112-GW083110	Tm-171	Suspended	15 U	230	69	110
PZ-112	SMPZ-112-GW083110	Tm-171	Total	190	NA	140	NA
PZ-112	SMPZ-112-GW083110	U-233/234	Filtered	0.528	0.007	0.043	0.006
PZ-112	SMPZ-112-GW083110	U-233/234	Suspended	0.024	0.048	0.017	0.021
PZ-112	SMPZ-112-GW083110	U-233/234	Total	0.552	NA	0.046	NA
PZ-112	SMPZ-112-GW083110	U-235/236	Filtered	0.0214	0.0083	0.0081	0.0071
PZ-112	SMPZ-112-GW083110	U-235/236	Suspended	0.0029 U	0.043	0.0094	0.017
PZ-112	SMPZ-112-GW083110	U-235/236	Total	0.024	NA	0.012	NA
PZ-112	SMPZ-112-GW083110	U-238	Filtered	0.444	0.018	0.038	0.006
PZ-112	SMPZ-112-GW083110	U-238	Suspended	0.021	0.037	0.014	0.015
PZ-112	SMPZ-112-GW083110	U-238	Total	0.466	NA	0.041	NA
PZ-114	SMPZ-114-GW082410	H-3	Filtered	14 U	140	41	67
PZ-114	SMPZ-114-GW082410	H-3	Suspended	19.5	20	6.9	8.5
PZ-114	SMPZ-114-GW082410	H-3	Total	33	NA	41	NA
PZ-120	SMPZ-120-GW082710	Ac-227	Filtered	-0.2 U	7	2	3.4
PZ-120	SMPZ-120-GW082710	Ac-227	Suspended	-0.06 U	4.5	1.3	2.2
PZ-120	SMPZ-120-GW082710	Ac-227	Total	-0.3	NA	2.4	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW082710	Ac-228	Filtered	1.6 U	4.4	1.3	2
PZ-120	SMPZ-120-GW082710	Ac-228	Suspended	1.81	2.5	0.77	1.2
PZ-120	SMPZ-120-GW082710	Ac-228	Total	3.4	NA	1.5	NA
PZ-120	SMPZ-120-GW082710	Ag-108	Filtered	0.034 U R	0.1	0.031	0.05
PZ-120	SMPZ-120-GW082710	Ag-108	Suspended	0.004 U R	0.055	0.016	0.027
PZ-120	SMPZ-120-GW082710	Ag-108	Total	0.038 R	NA	0.035	NA
PZ-120	SMPZ-120-GW082710	Ag-108m	Filtered	0.36 U R	1.1	0.34	0.53
PZ-120	SMPZ-120-GW082710	Ag-108m	Suspended	0.04 U R	0.6	0.17	0.29
PZ-120	SMPZ-120-GW082710	Ag-108m	Total	0.4 R	NA	0.38	NA
PZ-120	SMPZ-120-GW082710	Ba-133	Filtered	-1.8 U R	11	3.4	5.4
PZ-120	SMPZ-120-GW082710	Ba-133	Suspended	0.5 U R	6.2	1.8	3
PZ-120	SMPZ-120-GW082710	Ba-133	Total	-1.3 R	NA	3.8	NA
PZ-120	SMPZ-120-GW082710	Ba-137m	Filtered	0.4 U	1.5	0.43	0.68
PZ-120	SMPZ-120-GW082710	Ba-137m	Suspended	0.12 U	0.74	0.22	0.35
PZ-120	SMPZ-120-GW082710	Ba-137m	Total	0.53	NA	0.48	NA
PZ-120	SMPZ-120-GW082710	Bi-212	Filtered	-0.2 U	12	3.5	5.8
PZ-120	SMPZ-120-GW082710	Bi-212	Suspended	0.7 U	6.3	1.8	3
PZ-120	SMPZ-120-GW082710	Bi-212	Total	0.5	NA	4	NA
PZ-120	SMPZ-120-GW082710	Bi-214	Filtered	-1 U	3	120	2
PZ-120	SMPZ-120-GW082710	Bi-214	Suspended	0.47 U	1.7	0.6	0.83
PZ-120	SMPZ-120-GW082710	Bi-214	Total	-1	NA	120	NA
PZ-120	SMPZ-120-GW082710	Cd-113m	Filtered	3900 U	14000	4200	6700
PZ-120	SMPZ-120-GW082710	Cd-113m	Suspended	1100 U	7200	2100	3500
PZ-120	SMPZ-120-GW082710	Cd-113m	Total	5000	NA	4700	NA
PZ-120	SMPZ-120-GW082710	Cf-249	Filtered	-1.6 U R	6.6	2	3.2
PZ-120	SMPZ-120-GW082710	Cf-249	Suspended	0.59 U R	3.2	0.94	1.5
PZ-120	SMPZ-120-GW082710	Cf-249	Total	-1 R	NA	2.2	NA
PZ-120	SMPZ-120-GW082710	Co-60	Filtered	0 U	1.5	0.42	0.69
PZ-120	SMPZ-120-GW082710	Co-60	Suspended	0.15 U	0.8	0.23	0.37
PZ-120	SMPZ-120-GW082710	Co-60	Total	0.15	NA	0.48	NA
PZ-120	SMPZ-120-GW082710	Cs-134	Filtered	-0.56 U	1.8	0.53	0.85
PZ-120	SMPZ-120-GW082710	Cs-134	Suspended	-0.05 U	0.75	0.22	0.36
PZ-120	SMPZ-120-GW082710	Cs-134	Total	-0.61	NA	0.58	NA
PZ-120	SMPZ-120-GW082710	Cs-137	Filtered	0.43 U	1.5	0.45	0.72
PZ-120	SMPZ-120-GW082710	Cs-137	Suspended	0.13 U	0.78	0.23	0.37
PZ-120	SMPZ-120-GW082710	Cs-137	Total	0.56	NA	0.51	NA
PZ-120	SMPZ-120-GW082710	Eu-152	Filtered	0.1 U	3.9	1.1	1.8
PZ-120	SMPZ-120-GW082710	Eu-152	Suspended	-0.001 U	1.8	0.54	0.89

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW082710	Eu-152	Total	0.1	NA	1.2	NA
PZ-120	SMPZ-120-GW082710	Eu-154	Filtered	2.2 U	11	3.2	5.1
PZ-120	SMPZ-120-GW082710	Eu-154	Suspended	2 U	6.1	1.8	2.9
PZ-120	SMPZ-120-GW082710	Eu-154	Total	4.3	NA	3.7	NA
PZ-120	SMPZ-120-GW082710	Eu-155	Filtered	0.25 U	3.1	0.93	1.5
PZ-120	SMPZ-120-GW082710	Eu-155	Suspended	0.3 U	1.3	0.4	0.65
PZ-120	SMPZ-120-GW082710	Eu-155	Total	0.5	NA	1	NA
PZ-120	SMPZ-120-GW082710	gross_alpha	Filtered	7.5	0.42	0.57	0.22
PZ-120	SMPZ-120-GW082710	gross_alpha	Suspended	0.34	0.42	0.14	0.22
PZ-120	SMPZ-120-GW082710	gross_alpha	Total	7.83	NA	0.59	NA
PZ-120	SMPZ-120-GW082710	gross_beta	Filtered	4.4	1.8	0.75	1
PZ-120	SMPZ-120-GW082710	gross_beta	Suspended	0.71	0.73	0.24	0.43
PZ-120	SMPZ-120-GW082710	gross_beta	Total	5.11	NA	0.79	NA
PZ-120	SMPZ-120-GW082710	H-3	Filtered	20 U	130	40	65
PZ-120	SMPZ-120-GW082710	H-3	Suspended	-4.7 U R	22	5.5	9.8
PZ-120	SMPZ-120-GW082710	H-3	Total	15 R	NA	40	NA
PZ-120	SMPZ-120-GW082710	H-3_Total	Filtered	20	34	11	16
PZ-120	SMPZ-120-GW082710	H-3_Total	Suspended	-4.7 U R	19	4.4	8.3
PZ-120	SMPZ-120-GW082710	H-3_Total	Total	15 R	NA	11	NA
PZ-120	SMPZ-120-GW082710	Ho-166m	Filtered	-0.46 U	2.1	0.62	0.99
PZ-120	SMPZ-120-GW082710	Ho-166m	Suspended	0.42 U	1	0.31	0.49
PZ-120	SMPZ-120-GW082710	Ho-166m	Total	-0.04	NA	0.7	NA
PZ-120	SMPZ-120-GW082710	K-40	Filtered	-9 U	23	14	11
PZ-120	SMPZ-120-GW082710	K-40	Suspended	5.6	9.5	2.8	4.5
PZ-120	SMPZ-120-GW082710	K-40	Total	-4	NA	14	NA
PZ-120	SMPZ-120-GW082710	Na-22	Filtered	-0.11 U	1.8	0.52	0.85
PZ-120	SMPZ-120-GW082710	Na-22	Suspended	0 U	0.84	0.24	0.39
PZ-120	SMPZ-120-GW082710	Na-22	Total	-0.11	NA	0.57	NA
PZ-120	SMPZ-120-GW082710	Nb-94	Filtered	0.13 U	1.2	0.34	0.55
PZ-120	SMPZ-120-GW082710	Nb-94	Suspended	0.05 U	0.51	0.15	0.24
PZ-120	SMPZ-120-GW082710	Nb-94	Total	0.19	NA	0.37	NA
PZ-120	SMPZ-120-GW082710	Np-236	Filtered	0.88 U	2.6	0.78	1.3
PZ-120	SMPZ-120-GW082710	Np-236	Suspended	0.38 U	1.2	0.37	0.59
PZ-120	SMPZ-120-GW082710	Np-236	Total	1.26	NA	0.87	NA
PZ-120	SMPZ-120-GW082710	Np-239	Filtered	0.3 U	6.9	2	3.3
PZ-120	SMPZ-120-GW082710	Np-239	Suspended	-0.06 U	3.8	1.1	1.8
PZ-120	SMPZ-120-GW082710	Np-239	Total	0.2	NA	2.3	NA
PZ-120	SMPZ-120-GW082710	Pa-231	Filtered	4 U	50	15	24

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW082710	Pa-231	Suspended	-1 U	29	8.4	14
PZ-120	SMPZ-120-GW082710	Pa-231	Total	3	NA	17	NA
PZ-120	SMPZ-120-GW082710	Pb-212	Filtered	1.17 U	2.6	0.999	1.2
PZ-120	SMPZ-120-GW082710	Pb-212	Suspended	0.79	1.3	0.43	0.62
PZ-120	SMPZ-120-GW082710	Pb-212	Total	2	NA	1.1	NA
PZ-120	SMPZ-120-GW082710	Pb-214	Filtered	-0.9 U	3.2	2	1.5
PZ-120	SMPZ-120-GW082710	Pb-214	Suspended	0.06 U	1.4	0.45	0.69
PZ-120	SMPZ-120-GW082710	Pb-214	Total	-0.8	NA	2	NA
PZ-120	SMPZ-120-GW082710	Sb-125	Filtered	5 U	12	3.5	5.6
PZ-120	SMPZ-120-GW082710	Sb-125	Suspended	0.0003 U	5.7	1.7	2.7
PZ-120	SMPZ-120-GW082710	Sb-125	Total	5	NA	3.9	NA
PZ-120	SMPZ-120-GW082710	Sn-126	Filtered	0.54 U	1.5	0.44	0.69
PZ-120	SMPZ-120-GW082710	Sn-126	Suspended	0.29 U	0.82	0.25	0.39
PZ-120	SMPZ-120-GW082710	Sn-126	Total	0.83	NA	0.51	NA
PZ-120	SMPZ-120-GW082710	Sr-90	Filtered	0.031 U	0.19	0.055	0.11
PZ-120	SMPZ-120-GW082710	Sr-90	Suspended	-0.015 U	0.15	0.041	0.089
PZ-120	SMPZ-120-GW082710	Sr-90	Total	0.017	NA	0.069	NA
PZ-120	SMPZ-120-GW082710	Te-125m	Filtered	1.15 U	2.7	0.81	1.3
PZ-120	SMPZ-120-GW082710	Te-125m	Suspended	0.0001 U	1.3	0.38	0.63
PZ-120	SMPZ-120-GW082710	Te-125m	Total	1.15	NA	0.9	NA
PZ-120	SMPZ-120-GW082710	Th-231	Filtered	0.219	0.021	0.027	0.007
PZ-120	SMPZ-120-GW082710	Th-231	Suspended	0.0026 U	0.039	0.0084	0.015
PZ-120	SMPZ-120-GW082710	Th-231	Total	0.222	NA	0.028	NA
PZ-120	SMPZ-120-GW082710	Th-234	Filtered	11.2	22	6.7	11
PZ-120	SMPZ-120-GW082710	Th-234	Suspended	2.6 U	7.5	2.4	3.7
PZ-120	SMPZ-120-GW082710	Th-234	Total	13.8	NA	7.2	NA
PZ-120	SMPZ-120-GW082710	Tl-208	Filtered	0.07 U	1.7	0.46	0.83
PZ-120	SMPZ-120-GW082710	Tl-208	Suspended	0.16 U	0.95	0.26	0.46
PZ-120	SMPZ-120-GW082710	Tl-208	Total	0.23	NA	0.53	NA
PZ-120	SMPZ-120-GW082710	Tm-171	Filtered	60 U	360	110	180
PZ-120	SMPZ-120-GW082710	Tm-171	Suspended	27 U	140	41	67
PZ-120	SMPZ-120-GW082710	Tm-171	Total	90	NA	110	NA
PZ-120	SMPZ-120-GW082710	U-233/234	Filtered	4.82	0.03	0.23	0.01
PZ-120	SMPZ-120-GW082710	U-233/234	Suspended	0.017 U	0.043	0.014	0.019
PZ-120	SMPZ-120-GW082710	U-233/234	Total	4.84	NA	0.23	NA
PZ-120	SMPZ-120-GW082710	U-235/236	Filtered	0.219	0.021	0.027	0.007
PZ-120	SMPZ-120-GW082710	U-235/236	Suspended	0.0026 U	0.039	0.0084	0.015
PZ-120	SMPZ-120-GW082710	U-235/236	Total	0.222	NA	0.028	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW082710	U-238	Filtered	4.61	0.02	0.22	0.008
PZ-120	SMPZ-120-GW082710	U-238	Suspended	0.014 K	0.034	0.012	0.013
PZ-120	SMPZ-120-GW082710	U-238	Total	4.63	NA	0.22	NA
PZ-121	SMPZ-121-GW090110	Ac-227	Filtered	-3.1 U	9.9	3	4.8
PZ-121	SMPZ-121-GW090110	Ac-227	Suspended	2.8	2	0.68	0.95
PZ-121	SMPZ-121-GW090110	Ac-227	Total	-0.3	NA	3	NA
PZ-121	SMPZ-121-GW090110	Ac-228	Filtered	3.5	5.2	1.6	2.4
PZ-121	SMPZ-121-GW090110	Ac-228	Suspended	-0.4 U B	3.2	1	1.5
PZ-121	SMPZ-121-GW090110	Ac-228	Total	3	NA	1.9	NA
PZ-121	SMPZ-121-GW090110	Ag-108	Filtered	0.0007 U R	0.09	0.026	0.042
PZ-121	SMPZ-121-GW090110	Ag-108	Suspended	0.008 U R	0.046	0.014	0.022
PZ-121	SMPZ-121-GW090110	Ag-108	Total	0.008 R	NA	0.029	NA
PZ-121	SMPZ-121-GW090110	Ag-108m	Filtered	0.007 U R	0.97	0.28	0.45
PZ-121	SMPZ-121-GW090110	Ag-108m	Suspended	0.08 U R	0.5	0.15	0.24
PZ-121	SMPZ-121-GW090110	Ag-108m	Total	0.09 R	NA	0.31	NA
PZ-121	SMPZ-121-GW090110	Ba-133	Filtered	-2.8 U R	15	4.3	7
PZ-121	SMPZ-121-GW090110	Ba-133	Suspended	-0.02 U R	6	1.8	2.9
PZ-121	SMPZ-121-GW090110	Ba-133	Total	-2.8 R	NA	4.7	NA
PZ-121	SMPZ-121-GW090110	Ba-137m	Filtered	0.29 U	1.3	0.38	0.6
PZ-121	SMPZ-121-GW090110	Ba-137m	Suspended	-0.22 U	0.69	0.21	0.33
PZ-121	SMPZ-121-GW090110	Ba-137m	Total	0.07	NA	0.43	NA
PZ-121	SMPZ-121-GW090110	Bi-212	Filtered	4.9 U	13	3.8	5.8
PZ-121	SMPZ-121-GW090110	Bi-212	Suspended	3.3	5.7	1.8	2.7
PZ-121	SMPZ-121-GW090110	Bi-212	Total	8.2	NA	4.2	NA
PZ-121	SMPZ-121-GW090110	Bi-214	Filtered	0.47 U	3.2	0.86	1.5
PZ-121	SMPZ-121-GW090110	Bi-214	Suspended	-0.55 U	1.7	0.78	0.84
PZ-121	SMPZ-121-GW090110	Bi-214	Total	-0.08	NA	1.2	NA
PZ-121	SMPZ-121-GW090110	Cd-113m	Filtered	-400 U	17000	4900	8000
PZ-121	SMPZ-121-GW090110	Cd-113m	Suspended	-1000 U	7400	2200	3600
PZ-121	SMPZ-121-GW090110	Cd-113m	Total	-1400	NA	5400	NA
PZ-121	SMPZ-121-GW090110	Cf-249	Filtered	-0.5 U R	7.2	2.1	3.4
PZ-121	SMPZ-121-GW090110	Cf-249	Suspended	0.17 U R	2.9	0.87	1.4
PZ-121	SMPZ-121-GW090110	Cf-249	Total	-0.4 R	NA	2.3	NA
PZ-121	SMPZ-121-GW090110	Co-60	Filtered	-0.25 U	1.9	0.53	0.84
PZ-121	SMPZ-121-GW090110	Co-60	Suspended	0.04 U	0.78	0.22	0.37
PZ-121	SMPZ-121-GW090110	Co-60	Total	-0.21	NA	0.57	NA
PZ-121	SMPZ-121-GW090110	Cs-134	Filtered	-0.36 U	1.7	0.51	0.82
PZ-121	SMPZ-121-GW090110	Cs-134	Suspended	0.1 U	0.8	0.24	0.39

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW090110	Cs-134	Total	-0.26 SK	NA	0.56	NA
PZ-121	SMPZ-121-GW090110	Cs-137	Filtered	0.3 U	1.4	0.4	0.64
PZ-121	SMPZ-121-GW090110	Cs-137	Suspended	-0.23 U	0.73	0.22	0.35
PZ-121	SMPZ-121-GW090110	Cs-137	Total	0.07	NA	0.46	NA
PZ-121	SMPZ-121-GW090110	Eu-152	Filtered	1.3 U	3.1	0.94	1.5
PZ-121	SMPZ-121-GW090110	Eu-152	Suspended	-0.03 U	1.6	0.47	0.77
PZ-121	SMPZ-121-GW090110	Eu-152	Total	1.3	NA	1	NA
PZ-121	SMPZ-121-GW090110	Eu-154	Filtered	4 U	11	3.3	5
PZ-121	SMPZ-121-GW090110	Eu-154	Suspended	-1.6 U	6.1	1.8	2.9
PZ-121	SMPZ-121-GW090110	Eu-154	Total	2.5	NA	3.7	NA
PZ-121	SMPZ-121-GW090110	Eu-155	Filtered	-0.59 U	3.2	0.96	1.6
PZ-121	SMPZ-121-GW090110	Eu-155	Suspended	0.006 U	1.3	0.38	0.63
PZ-121	SMPZ-121-GW090110	Eu-155	Total	-0.6 SK	NA	1	NA
PZ-121	SMPZ-121-GW090110	gross_alpha	Filtered	1.16	0.42	0.23	0.21
PZ-121	SMPZ-121-GW090110	gross_alpha	Suspended	0.79	0.46	0.2	0.24
PZ-121	SMPZ-121-GW090110	gross_alpha	Total	1.96	NA	0.3	NA
PZ-121	SMPZ-121-GW090110	gross_beta	Filtered	0.96 U	2.5	0.75	1.5
PZ-121	SMPZ-121-GW090110	gross_beta	Suspended	-0.14 U	0.78	0.21	0.46
PZ-121	SMPZ-121-GW090110	gross_beta	Total	0.82	NA	0.78	NA
PZ-121	SMPZ-121-GW090110	H-3	Filtered	5 U	140	41	68
PZ-121	SMPZ-121-GW090110	H-3	Suspended	-8.9 U R	22	5.3	9.8
PZ-121	SMPZ-121-GW090110	H-3	Total	-4 R	NA	42	NA
PZ-121	SMPZ-121-GW090110	Ho-166m	Filtered	0 U	3	0.87	1.4
PZ-121	SMPZ-121-GW090110	Ho-166m	Suspended	0.68 SK	0.74	0.24	0.35
PZ-121	SMPZ-121-GW090110	Ho-166m	Total	0.68 SK	NA	0.9	NA
PZ-121	SMPZ-121-GW090110	K-40	Filtered	-5.6 U	22	7.7	10
PZ-121	SMPZ-121-GW090110	K-40	Suspended	4.1 U	12	3.1	5.6
PZ-121	SMPZ-121-GW090110	K-40	Total	-1.6	NA	8.3	NA
PZ-121	SMPZ-121-GW090110	Na-22	Filtered	-0.09 U	1.6	0.45	0.73
PZ-121	SMPZ-121-GW090110	Na-22	Suspended	-0.004 U	0.75	0.21	0.35
PZ-121	SMPZ-121-GW090110	Na-22	Total	-0.1	NA	0.5	NA
PZ-121	SMPZ-121-GW090110	Nb-94	Filtered	0.29 U	1.4	0.4	0.64
PZ-121	SMPZ-121-GW090110	Nb-94	Suspended	0.04 U	0.69	0.2	0.33
PZ-121	SMPZ-121-GW090110	Nb-94	Total	0.34	NA	0.45	NA
PZ-121	SMPZ-121-GW090110	Np-236	Filtered	-0.003 U	2.3	0.67	1.1
PZ-121	SMPZ-121-GW090110	Np-236	Suspended	0.09 U	1.2	0.36	0.59
PZ-121	SMPZ-121-GW090110	Np-236	Total	0.09 SK	NA	0.76	NA
PZ-121	SMPZ-121-GW090110	Np-239	Filtered	1 U	7.2	2.1	3.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW090110	Np-239	Suspended	-0.7 U	3.6	1.1	1.7
PZ-121	SMPZ-121-GW090110	Np-239	Total	0.3	NA	2.4	NA
PZ-121	SMPZ-121-GW090110	Pa-231	Filtered	3 U	59	17	28
PZ-121	SMPZ-121-GW090110	Pa-231	Suspended	-2.7 U	28	8.3	14
PZ-121	SMPZ-121-GW090110	Pa-231	Total	-0.1	NA	19	NA
PZ-121	SMPZ-121-GW090110	Pb-212	Filtered	-0.2 U	2.9	1	1.4
PZ-121	SMPZ-121-GW090110	Pb-212	Suspended	0.26 U	1.2	0.41	0.61
PZ-121	SMPZ-121-GW090110	Pb-212	Total	0.08	NA	1.1	NA
PZ-121	SMPZ-121-GW090110	Pb-214	Filtered	0.92 U	3.1	0.83	1.5
PZ-121	SMPZ-121-GW090110	Pb-214	Suspended	-0.77 U	1.6	0.75	0.8
PZ-121	SMPZ-121-GW090110	Pb-214	Total	0.1	NA	1.1	NA
PZ-121	SMPZ-121-GW090110	Sb-125	Filtered	0.6 U	15	4.3	7.1
PZ-121	SMPZ-121-GW090110	Sb-125	Suspended	1.2 U	6.1	1.8	3
PZ-121	SMPZ-121-GW090110	Sb-125	Total	1.8 SK	NA	4.7	NA
PZ-121	SMPZ-121-GW090110	Sn-126	Filtered	-0.06 U	1.6	0.45	0.73
PZ-121	SMPZ-121-GW090110	Sn-126	Suspended	0 U	0.89	0.26	0.43
PZ-121	SMPZ-121-GW090110	Sn-126	Total	-0.06	NA	0.52	NA
PZ-121	SMPZ-121-GW090110	Sr-90	Filtered	0.0008 U	0.1	0.029	0.057
PZ-121	SMPZ-121-GW090110	Sr-90	Suspended	-0.017 U	0.11	0.03	0.061
PZ-121	SMPZ-121-GW090110	Sr-90	Total	-0.016	NA	0.042	NA
PZ-121	SMPZ-121-GW090110	Te-125m	Filtered	0.144 U	3.4	0.999	1.6
PZ-121	SMPZ-121-GW090110	Te-125m	Suspended	0.27 U	1.4	0.42	0.69
PZ-121	SMPZ-121-GW090110	Te-125m	Total	0.4 SK	NA	1.1	NA
PZ-121	SMPZ-121-GW090110	Th-231	Filtered	0.043	0.032	0.016	0.011
PZ-121	SMPZ-121-GW090110	Th-231	Suspended	0 U	0.021	0.0039	0.0065
PZ-121	SMPZ-121-GW090110	Th-231	Total	0.043	NA	0.016	NA
PZ-121	SMPZ-121-GW090110	Th-234	Filtered	2.5 U	21	6.2	10
PZ-121	SMPZ-121-GW090110	Th-234	Suspended	1.7 U	8.1	2.4	3.9
PZ-121	SMPZ-121-GW090110	Th-234	Total	4.2	NA	6.7	NA
PZ-121	SMPZ-121-GW090110	Tl-208	Filtered	-0.006 U	2	0.51	0.92
PZ-121	SMPZ-121-GW090110	Tl-208	Suspended	-0.15 U	1	0.36	0.49
PZ-121	SMPZ-121-GW090110	Tl-208	Total	-0.15	NA	0.63	NA
PZ-121	SMPZ-121-GW090110	Tm-171	Filtered	50 U	350	100	170
PZ-121	SMPZ-121-GW090110	Tm-171	Suspended	-45 U	130	38	62
PZ-121	SMPZ-121-GW090110	Tm-171	Total	6	NA	110	NA
PZ-121	SMPZ-121-GW090110	U-233/234	Filtered	0.55 K	0.037	0.052	0.015
PZ-121	SMPZ-121-GW090110	U-233/234	Suspended	0.0157	0.021	0.0075	0.0074
PZ-121	SMPZ-121-GW090110	U-233/234	Total	0.566	NA	0.053	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW090110	U-235/236	Filtered	0.043	0.032	0.016	0.011
PZ-121	SMPZ-121-GW090110	U-235/236	Suspended	0 U	0.021	0.0039	0.0065
PZ-121	SMPZ-121-GW090110	U-235/236	Total	0.043	NA	0.016	NA
PZ-121	SMPZ-121-GW090110	U-238	Filtered	0.503	0.01	0.049	0.006
PZ-121	SMPZ-121-GW090110	U-238	Suspended	0.04	0.016	0.01	0.005
PZ-121	SMPZ-121-GW090110	U-238	Total	0.544	NA	0.05	NA
PZ-122	SMPZ-122-GW082710	Ac-227	Filtered	1.1 U	9.6	2.9	4.7
PZ-122	SMPZ-122-GW082710	Ac-227	Suspended	1.1 U	3.5	1	1.7
PZ-122	SMPZ-122-GW082710	Ac-227	Total	2.2	NA	3	NA
PZ-122	SMPZ-122-GW082710	Ac-228	Filtered	3.6	4.2	1.3	2
PZ-122	SMPZ-122-GW082710	Ac-228	Suspended	0.79 U	2.9	0.86	1.4
PZ-122	SMPZ-122-GW082710	Ac-228	Total	4.4	NA	1.6	NA
PZ-122	SMPZ-122-GW082710	Ag-108	Filtered	0.003 U R	0.096	0.028	0.046
PZ-122	SMPZ-122-GW082710	Ag-108	Suspended	-0.003 U R	0.054	0.016	0.026
PZ-122	SMPZ-122-GW082710	Ag-108	Total	-0.0005 R	NA	0.032	NA
PZ-122	SMPZ-122-GW082710	Ag-108m	Filtered	0.03 U R	1	0.3	0.5
PZ-122	SMPZ-122-GW082710	Ag-108m	Suspended	-0.03 U R	0.58	0.17	0.28
PZ-122	SMPZ-122-GW082710	Ag-108m	Total	-0.006 R	NA	0.35	NA
PZ-122	SMPZ-122-GW082710	Ba-133	Filtered	-1.9 U R	13	3.7	6.1
PZ-122	SMPZ-122-GW082710	Ba-133	Suspended	0.02 U R	6.5	1.9	3.2
PZ-122	SMPZ-122-GW082710	Ba-133	Total	-1.9 R	NA	4.2	NA
PZ-122	SMPZ-122-GW082710	Ba-137m	Filtered	0.07 U	1.2	0.35	0.57
PZ-122	SMPZ-122-GW082710	Ba-137m	Suspended	0.07 U	0.62	0.18	0.29
PZ-122	SMPZ-122-GW082710	Ba-137m	Total	0.13	NA	0.39	NA
PZ-122	SMPZ-122-GW082710	Bi-212	Filtered	-1.4 U	12	5.1	5.7
PZ-122	SMPZ-122-GW082710	Bi-212	Suspended	-1 U	6.9	5.1	3.3
PZ-122	SMPZ-122-GW082710	Bi-212	Total	-2.4	NA	7.2	NA
PZ-122	SMPZ-122-GW082710	Bi-214	Filtered	3.5	2.8	1	1.3
PZ-122	SMPZ-122-GW082710	Bi-214	Suspended	3.79	1.6	0.64	0.75
PZ-122	SMPZ-122-GW082710	Bi-214	Total	7.3	NA	1.2	NA
PZ-122	SMPZ-122-GW082710	Cd-113m	Filtered	500 U	14000	4300	7000
PZ-122	SMPZ-122-GW082710	Cd-113m	Suspended	-9 U	7000	2100	3400
PZ-122	SMPZ-122-GW082710	Cd-113m	Total	500	NA	4700	NA
PZ-122	SMPZ-122-GW082710	Cf-249	Filtered	0.03 U R	5.9	1.7	2.8
PZ-122	SMPZ-122-GW082710	Cf-249	Suspended	-0.38 U R	3	0.88	1.4
PZ-122	SMPZ-122-GW082710	Cf-249	Total	-0.3 R	NA	1.9	NA
PZ-122	SMPZ-122-GW082710	Co-60	Filtered	-0.22 U	1.5	0.42	0.68
PZ-122	SMPZ-122-GW082710	Co-60	Suspended	0.27 U	0.77	0.23	0.36

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW082710	Co-60	Total	0.06	NA	0.48	NA
PZ-122	SMPZ-122-GW082710	Cs-134	Filtered	-0.57 U	1.5	0.45	0.73
PZ-122	SMPZ-122-GW082710	Cs-134	Suspended	-0.25 U	0.94	0.28	0.45
PZ-122	SMPZ-122-GW082710	Cs-134	Total	-0.82	NA	0.53	NA
PZ-122	SMPZ-122-GW082710	Cs-137	Filtered	0.07 U	1.3	0.37	0.6
PZ-122	SMPZ-122-GW082710	Cs-137	Suspended	0.07 U	0.65	0.19	0.31
PZ-122	SMPZ-122-GW082710	Cs-137	Total	0.14	NA	0.41	NA
PZ-122	SMPZ-122-GW082710	Eu-152	Filtered	0.09 U	3.4	0.99	1.6
PZ-122	SMPZ-122-GW082710	Eu-152	Suspended	0.87	1.8	0.53	0.84
PZ-122	SMPZ-122-GW082710	Eu-152	Total	1	NA	1.1	NA
PZ-122	SMPZ-122-GW082710	Eu-154	Filtered	0.4 U	11	3	5
PZ-122	SMPZ-122-GW082710	Eu-154	Suspended	-0.07 U	5.2	1.5	2.4
PZ-122	SMPZ-122-GW082710	Eu-154	Total	0.3	NA	3.4	NA
PZ-122	SMPZ-122-GW082710	Eu-155	Filtered	0.9 U	3.4	1	1.7
PZ-122	SMPZ-122-GW082710	Eu-155	Suspended	0.19 U	1.2	0.37	0.6
PZ-122	SMPZ-122-GW082710	Eu-155	Total	1.1	NA	1.1	NA
PZ-122	SMPZ-122-GW082710	gross_alpha	Filtered	15.9	0.44	0.94	0.23
PZ-122	SMPZ-122-GW082710	gross_alpha	Suspended	0.62	0.53	0.2	0.28
PZ-122	SMPZ-122-GW082710	gross_alpha	Total	16.5	NA	0.97	NA
PZ-122	SMPZ-122-GW082710	gross_beta	Filtered	10.6	2.2	1.1	1.2
PZ-122	SMPZ-122-GW082710	gross_beta	Suspended	1.06	0.81	0.28	0.48
PZ-122	SMPZ-122-GW082710	gross_beta	Total	11.6	NA	1.1	NA
PZ-122	SMPZ-122-GW082710	H-3	Filtered	64 U	130	40	65
PZ-122	SMPZ-122-GW082710	H-3	Suspended	-8 U R	30	7.1	14
PZ-122	SMPZ-122-GW082710	H-3	Total	56 R	NA	41	NA
PZ-122	SMPZ-122-GW082710	H-3_Total	Filtered	64	26	10	12
PZ-122	SMPZ-122-GW082710	H-3_Total	Suspended	-8 U R	26	5.5	11
PZ-122	SMPZ-122-GW082710	H-3_Total	Total	56 R	NA	12	NA
PZ-122	SMPZ-122-GW082710	Ho-166m	Filtered	0.2 U	2.1	0.63	1
PZ-122	SMPZ-122-GW082710	Ho-166m	Suspended	-0.31 U	1.2	0.35	0.56
PZ-122	SMPZ-122-GW082710	Ho-166m	Total	-0.11	NA	0.72	NA
PZ-122	SMPZ-122-GW082710	K-40	Filtered	13.1	24	6.8	12
PZ-122	SMPZ-122-GW082710	K-40	Suspended	-4 U	11	4.4	5.1
PZ-122	SMPZ-122-GW082710	K-40	Total	9	NA	8.1	NA
PZ-122	SMPZ-122-GW082710	Na-22	Filtered	-0.24 U	1.3	0.39	0.62
PZ-122	SMPZ-122-GW082710	Na-22	Suspended	-0.24 U	0.97	0.28	0.45
PZ-122	SMPZ-122-GW082710	Na-22	Total	-0.48	NA	0.48	NA
PZ-122	SMPZ-122-GW082710	Nb-94	Filtered	-0.2 U	1.1	0.33	0.53

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW082710	Nb-94	Suspended	0.38	0.65	0.2	0.31
PZ-122	SMPZ-122-GW082710	Nb-94	Total	0.19	NA	0.38	NA
PZ-122	SMPZ-122-GW082710	Np-236	Filtered	-0.16 U	3	0.89	1.5
PZ-122	SMPZ-122-GW082710	Np-236	Suspended	-0.02 U	1.3	0.4	0.65
PZ-122	SMPZ-122-GW082710	Np-236	Total	-0.18	NA	0.97	NA
PZ-122	SMPZ-122-GW082710	Np-239	Filtered	0 U	8.4	2.5	4.1
PZ-122	SMPZ-122-GW082710	Np-239	Suspended	-0.2 U	3.9	1.1	1.9
PZ-122	SMPZ-122-GW082710	Np-239	Total	-0.2	NA	2.7	NA
PZ-122	SMPZ-122-GW082710	Pa-231	Filtered	-8 U	59	17	28
PZ-122	SMPZ-122-GW082710	Pa-231	Suspended	7.7 U	28	8.4	14
PZ-122	SMPZ-122-GW082710	Pa-231	Total	-0.5	NA	19	NA
PZ-122	SMPZ-122-GW082710	Pb-212	Filtered	0.6 U	3	1	1.5
PZ-122	SMPZ-122-GW082710	Pb-212	Suspended	-0.1 U	1.3	0.46	0.63
PZ-122	SMPZ-122-GW082710	Pb-212	Total	0.5	NA	1.1	NA
PZ-122	SMPZ-122-GW082710	Pb-214	Filtered	0.4 U	2.8	0.76	1.4
PZ-122	SMPZ-122-GW082710	Pb-214	Suspended	1.82	1.5	0.58	0.73
PZ-122	SMPZ-122-GW082710	Pb-214	Total	2.22	NA	0.95	NA
PZ-122	SMPZ-122-GW082710	Sb-125	Filtered	5.2 U	13	3.8	6.2
PZ-122	SMPZ-122-GW082710	Sb-125	Suspended	-1.2 U	6.6	2	3.2
PZ-122	SMPZ-122-GW082710	Sb-125	Total	4	NA	4.3	NA
PZ-122	SMPZ-122-GW082710	Sn-126	Filtered	-0.15 U	1.4	0.4	0.65
PZ-122	SMPZ-122-GW082710	Sn-126	Suspended	0.56	0.79	0.25	0.38
PZ-122	SMPZ-122-GW082710	Sn-126	Total	0.41	NA	0.47	NA
PZ-122	SMPZ-122-GW082710	Sr-90	Filtered	0.023 U	0.22	0.063	0.13
PZ-122	SMPZ-122-GW082710	Sr-90	Suspended	0.011 U	0.15	0.042	0.089
PZ-122	SMPZ-122-GW082710	Sr-90	Total	0.034	NA	0.076	NA
PZ-122	SMPZ-122-GW082710	Te-125m	Filtered	1.21 U	2.9	0.89	1.4
PZ-122	SMPZ-122-GW082710	Te-125m	Suspended	-0.28 U	1.5	0.46	0.74
PZ-122	SMPZ-122-GW082710	Te-125m	Total	0.928	NA	0.997	NA
PZ-122	SMPZ-122-GW082710	Th-231	Filtered	0.462	0.02	0.041	0.006
PZ-122	SMPZ-122-GW082710	Th-231	Suspended	0.0121	0.016	0.0086	0.0086
PZ-122	SMPZ-122-GW082710	Th-231	Total	0.474	NA	0.042	NA
PZ-122	SMPZ-122-GW082710	Th-234	Filtered	10.6 U	24	8.3	12
PZ-122	SMPZ-122-GW082710	Th-234	Suspended	2.7 U	7.4	2.4	3.6
PZ-122	SMPZ-122-GW082710	Th-234	Total	13.4	NA	8.7	NA
PZ-122	SMPZ-122-GW082710	Tl-208	Filtered	0.08 U	1.8	0.68	0.86
PZ-122	SMPZ-122-GW082710	Tl-208	Suspended	-0.05 U	1	0.31	0.5
PZ-122	SMPZ-122-GW082710	Tl-208	Total	0.03	NA	0.75	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW082710	Tm-171	Filtered	10 U	440	130	210
PZ-122	SMPZ-122-GW082710	Tm-171	Suspended	25 U	120	36	58
PZ-122	SMPZ-122-GW082710	Tm-171	Total	40	NA	140	NA
PZ-122	SMPZ-122-GW082710	U-233/234	Filtered	8.53	0.02	0.38	0.005
PZ-122	SMPZ-122-GW082710	U-233/234	Suspended	0.0006 U	0.039	0.011	0.015
PZ-122	SMPZ-122-GW082710	U-233/234	Total	8.54	NA	0.38	NA
PZ-122	SMPZ-122-GW082710	U-235/236	Filtered	0.462	0.02	0.041	0.006
PZ-122	SMPZ-122-GW082710	U-235/236	Suspended	0.0121	0.016	0.0086	0.0086
PZ-122	SMPZ-122-GW082710	U-235/236	Total	0.474	NA	0.042	NA
PZ-122	SMPZ-122-GW082710	U-238	Filtered	7.83	0.006	0.35	0.005
PZ-122	SMPZ-122-GW082710	U-238	Suspended	-0.003 U	0.033	0.0075	0.012
PZ-122	SMPZ-122-GW082710	U-238	Total	7.82	NA	0.35	NA
PZ-150	SMPZ-150-GW082410	Ac-227	Filtered	0.2 U	12	3.7	6.1
PZ-150	SMPZ-150-GW082410	Ac-227	Suspended	-1.6 U	4.2	1.3	2.1
PZ-150	SMPZ-150-GW082410	Ac-227	Total	-1.5	NA	3.9	NA
PZ-150	SMPZ-150-GW082410	Ac-228	Filtered	-2.3 U	6.7	3.8	3.1
PZ-150	SMPZ-150-GW082410	Ac-228	Suspended	1.25	2.3	0.7	1.1
PZ-150	SMPZ-150-GW082410	Ac-228	Total	-1	NA	3.9	NA
PZ-150	SMPZ-150-GW082410	Ag-108	Filtered	0.023 U R	0.1	0.03	0.048
PZ-150	SMPZ-150-GW082410	Ag-108	Suspended	0.011 U R	0.044	0.013	0.021
PZ-150	SMPZ-150-GW082410	Ag-108	Total	0.034 R	NA	0.033	NA
PZ-150	SMPZ-150-GW082410	Ag-108m	Filtered	0.24 U R	1.1	0.33	0.52
PZ-150	SMPZ-150-GW082410	Ag-108m	Suspended	0.12 U R	0.47	0.14	0.22
PZ-150	SMPZ-150-GW082410	Ag-108m	Total	0.37 R	NA	0.35	NA
PZ-150	SMPZ-150-GW082410	Ba-133	Filtered	-3.6 U R	14	4.2	6.8
PZ-150	SMPZ-150-GW082410	Ba-133	Suspended	0.1 U R	6	1.8	2.9
PZ-150	SMPZ-150-GW082410	Ba-133	Total	-3.5 R	NA	4.6	NA
PZ-150	SMPZ-150-GW082410	Ba-137m	Filtered	-0.07 U	1.3	0.37	0.61
PZ-150	SMPZ-150-GW082410	Ba-137m	Suspended	-0.27 U	0.78	0.47	0.37
PZ-150	SMPZ-150-GW082410	Ba-137m	Total	-0.34	NA	0.6	NA
PZ-150	SMPZ-150-GW082410	Bi-212	Filtered	2.2 U	13	3.7	6
PZ-150	SMPZ-150-GW082410	Bi-212	Suspended	0.9 U	4.3	1.3	2
PZ-150	SMPZ-150-GW082410	Bi-212	Total	3.1	NA	3.9	NA
PZ-150	SMPZ-150-GW082410	Bi-214	Filtered	2.4	3.3	1.1	1.6
PZ-150	SMPZ-150-GW082410	Bi-214	Suspended	1.81	1.4	0.66	0.67
PZ-150	SMPZ-150-GW082410	Bi-214	Total	4.2	NA	1.3	NA
PZ-150	SMPZ-150-GW082410	Cd-113m	Filtered	2000 U	16000	4600	7400
PZ-150	SMPZ-150-GW082410	Cd-113m	Suspended	200 U	6800	2000	3300

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW082410	Cd-113m	Total	2200	NA	5000	NA
PZ-150	SMPZ-150-GW082410	Cf-249	Filtered	1.4 U R	6.6	1.9	3.1
PZ-150	SMPZ-150-GW082410	Cf-249	Suspended	0.08 U R	3.3	0.97	1.6
PZ-150	SMPZ-150-GW082410	Cf-249	Total	1.5 R	NA	2.2	NA
PZ-150	SMPZ-150-GW082410	Co-60	Filtered	-0.23 U	1.8	0.5	0.79
PZ-150	SMPZ-150-GW082410	Co-60	Suspended	-0.23 U	0.88	0.26	0.4
PZ-150	SMPZ-150-GW082410	Co-60	Total	-0.46	NA	0.56	NA
PZ-150	SMPZ-150-GW082410	Cs-134	Filtered	0 U	2	0.59	0.98
PZ-150	SMPZ-150-GW082410	Cs-134	Suspended	-0.26 U	0.83	0.25	0.4
PZ-150	SMPZ-150-GW082410	Cs-134	Total	-0.26	NA	0.64	NA
PZ-150	SMPZ-150-GW082410	Cs-137	Filtered	-0.07 U	1.4	0.4	0.65
PZ-150	SMPZ-150-GW082410	Cs-137	Suspended	-0.28 U	0.82	0.49	0.39
PZ-150	SMPZ-150-GW082410	Cs-137	Total	-0.35	NA	0.63	NA
PZ-150	SMPZ-150-GW082410	Eu-152	Filtered	-1.7 U	4.4	1.3	2.1
PZ-150	SMPZ-150-GW082410	Eu-152	Suspended	0.44 U	1.3	0.4	0.63
PZ-150	SMPZ-150-GW082410	Eu-152	Total	-1.2	NA	1.4	NA
PZ-150	SMPZ-150-GW082410	Eu-154	Filtered	3 U	13	3.8	6.1
PZ-150	SMPZ-150-GW082410	Eu-154	Suspended	0.07 U	5.1	1.4	2.4
PZ-150	SMPZ-150-GW082410	Eu-154	Total	3.1	NA	4.1	NA
PZ-150	SMPZ-150-GW082410	Eu-155	Filtered	0.88 U	3.2	0.95	1.5
PZ-150	SMPZ-150-GW082410	Eu-155	Suspended	-0.34 U	1.1	0.34	0.56
PZ-150	SMPZ-150-GW082410	Eu-155	Total	0.5	NA	1	NA
PZ-150	SMPZ-150-GW082410	H-3	Filtered	34 U	130	40	64
PZ-150	SMPZ-150-GW082410	H-3	Suspended	4.2 U	14	4.1	6.1
PZ-150	SMPZ-150-GW082410	H-3	Total	38	NA	40	NA
PZ-150	SMPZ-150-GW082410	Ho-166m	Filtered	0.26 U	2.3	0.67	1.1
PZ-150	SMPZ-150-GW082410	Ho-166m	Suspended	-0.01 U	0.87	0.25	0.4
PZ-150	SMPZ-150-GW082410	Ho-166m	Total	0.24	NA	0.71	NA
PZ-150	SMPZ-150-GW082410	K-40	Filtered	13.9	18	4.6	8.2
PZ-150	SMPZ-150-GW082410	K-40	Suspended	10.5	8.9	2.6	4.1
PZ-150	SMPZ-150-GW082410	K-40	Total	24.3	NA	5.3	NA
PZ-150	SMPZ-150-GW082410	Na-22	Filtered	-0.15 U	1.8	0.5	0.82
PZ-150	SMPZ-150-GW082410	Na-22	Suspended	-0.02 U	0.87	0.24	0.4
PZ-150	SMPZ-150-GW082410	Na-22	Total	-0.16	NA	0.56	NA
PZ-150	SMPZ-150-GW082410	Nb-94	Filtered	0.23 U	1.1	0.31	0.49
PZ-150	SMPZ-150-GW082410	Nb-94	Suspended	-0.09 U	0.64	0.19	0.3
PZ-150	SMPZ-150-GW082410	Nb-94	Total	0.14	NA	0.36	NA
PZ-150	SMPZ-150-GW082410	Np-236	Filtered	0.39 U	2.8	0.83	1.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW082410	Np-236	Suspended	0.02 U	1.3	0.39	0.64
PZ-150	SMPZ-150-GW082410	Np-236	Total	0.41	NA	0.92	NA
PZ-150	SMPZ-150-GW082410	Np-239	Filtered	1.4 U	8.6	2.5	4.1
PZ-150	SMPZ-150-GW082410	Np-239	Suspended	-0.8 U	3.6	1.1	1.8
PZ-150	SMPZ-150-GW082410	Np-239	Total	0.6	NA	2.8	NA
PZ-150	SMPZ-150-GW082410	Pa-231	Filtered	-0.7 U	51	15	24
PZ-150	SMPZ-150-GW082410	Pa-231	Suspended	-4.4 U	28	8.3	13
PZ-150	SMPZ-150-GW082410	Pa-231	Total	-5	NA	17	NA
PZ-150	SMPZ-150-GW082410	Pb-212	Filtered	0.26 U	2.9	0.95	1.4
PZ-150	SMPZ-150-GW082410	Pb-212	Suspended	0.69	1.1	0.46	0.56
PZ-150	SMPZ-150-GW082410	Pb-212	Total	0.9	NA	1.1	NA
PZ-150	SMPZ-150-GW082410	Pb-214	Filtered	2.7	2.9	1	1.4
PZ-150	SMPZ-150-GW082410	Pb-214	Suspended	2.43	1.1	0.42	0.5
PZ-150	SMPZ-150-GW082410	Pb-214	Total	5.1	NA	1.1	NA
PZ-150	SMPZ-150-GW082410	Sb-125	Filtered	0.5 U	11	3.3	5.5
PZ-150	SMPZ-150-GW082410	Sb-125	Suspended	-1.7 U	6.3	1.9	3
PZ-150	SMPZ-150-GW082410	Sb-125	Total	-1.2	NA	3.8	NA
PZ-150	SMPZ-150-GW082410	Sn-126	Filtered	0.48 U	1.6	0.48	0.76
PZ-150	SMPZ-150-GW082410	Sn-126	Suspended	0.33	0.7	0.21	0.33
PZ-150	SMPZ-150-GW082410	Sn-126	Total	0.81	NA	0.53	NA
PZ-150	SMPZ-150-GW082410	Sr-90	Filtered	0.129 U	0.26	0.078	0.15
PZ-150	SMPZ-150-GW082410	Sr-90	Suspended	0.089 U	0.2	0.06	0.12
PZ-150	SMPZ-150-GW082410	Sr-90	Total	0.218	NA	0.099	NA
PZ-150	SMPZ-150-GW082410	Te-125m	Filtered	0.13 U	2.7	0.77	1.3
PZ-150	SMPZ-150-GW082410	Te-125m	Suspended	-0.4 U	1.4	0.43	0.7
PZ-150	SMPZ-150-GW082410	Te-125m	Total	-0.27	NA	0.89	NA
PZ-150	SMPZ-150-GW082410	Th-231	Filtered	0.084	0.031	0.023	0.009
PZ-150	SMPZ-150-GW082410	Th-231	Suspended	0.012	0.016	0.0085	0.0085
PZ-150	SMPZ-150-GW082410	Th-231	Total	0.096	NA	0.025	NA
PZ-150	SMPZ-150-GW082410	Th-234	Filtered	8.1 U	21	6.2	10
PZ-150	SMPZ-150-GW082410	Th-234	Suspended	-0.7 U	7.3	2.4	3.6
PZ-150	SMPZ-150-GW082410	Th-234	Total	7.4	NA	6.6	NA
PZ-150	SMPZ-150-GW082410	Tl-208	Filtered	1.43	1.9	0.71	0.87
PZ-150	SMPZ-150-GW082410	Tl-208	Suspended	-0.57 U	0.96	0.75	0.46
PZ-150	SMPZ-150-GW082410	Tl-208	Total	0.9	NA	1	NA
PZ-150	SMPZ-150-GW082410	Tm-171	Filtered	150 U	340	100	160
PZ-150	SMPZ-150-GW082410	Tm-171	Suspended	-21 U	130	38	63
PZ-150	SMPZ-150-GW082410	Tm-171	Total	130	NA	110	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW082410	U-233/234	Filtered	1.44	0.03	0.1	0.01
PZ-150	SMPZ-150-GW082410	U-233/234	Suspended	0.403	0.041	0.048	0.017
PZ-150	SMPZ-150-GW082410	U-233/234	Total	1.84	NA	0.11	NA
PZ-150	SMPZ-150-GW082410	U-235/236	Filtered	0.084	0.031	0.023	0.009
PZ-150	SMPZ-150-GW082410	U-235/236	Suspended	0.012	0.016	0.0085	0.0085
PZ-150	SMPZ-150-GW082410	U-235/236	Total	0.096	NA	0.025	NA
PZ-150	SMPZ-150-GW082410	U-238	Filtered	1.09	0.039	0.087	0.016
PZ-150	SMPZ-150-GW082410	U-238	Suspended	0.35	0.029	0.044	0.01
PZ-150	SMPZ-150-GW082410	U-238	Total	1.44	NA	0.097	NA
PZ-151	SMPZ-151-GW090110	H-3	Filtered	-63 U	150	44	74
PZ-151	SMPZ-151-GW090110	H-3	Suspended	-10.8 U R	24	5.8	11
PZ-151	SMPZ-151-GW090110	H-3	Total	-74 R	NA	44	NA
PZ-160	SMPZ-160-GW082410	Ac-227	Filtered	6.5	4.8	1.6	2.2
PZ-160	SMPZ-160-GW082410	Ac-227	Suspended	-4.7 R U	5	1.5	2.4
PZ-160	SMPZ-160-GW082410	Ac-227	Total	1.8	NA	2.3	NA
PZ-160	SMPZ-160-GW082410	Ac-228	Filtered	-1.4 U	6.4	2.6	3
PZ-160	SMPZ-160-GW082410	Ac-228	Suspended	2.89	2.3	0.76	1.1
PZ-160	SMPZ-160-GW082410	Ac-228	Total	1.5	NA	2.7	NA
PZ-160	SMPZ-160-GW082410	Ag-108	Filtered	-0.025 U R	0.12	0.035	0.057
PZ-160	SMPZ-160-GW082410	Ag-108	Suspended	-0.013 U R	0.043	0.013	0.021
PZ-160	SMPZ-160-GW082410	Ag-108	Total	-0.038 R	NA	0.037	NA
PZ-160	SMPZ-160-GW082410	Ag-108m	Filtered	-0.27 U R	1.3	0.38	0.61
PZ-160	SMPZ-160-GW082410	Ag-108m	Suspended	-0.14 U R	0.47	0.14	0.22
PZ-160	SMPZ-160-GW082410	Ag-108m	Total	-0.41 R	NA	0.4	NA
PZ-160	SMPZ-160-GW082410	Ba-133	Filtered	-1.1 U R	14	4.1	6.6
PZ-160	SMPZ-160-GW082410	Ba-133	Suspended	-1.2 U R	6.4	1.9	3.1
PZ-160	SMPZ-160-GW082410	Ba-133	Total	-2.3 R	NA	4.5	NA
PZ-160	SMPZ-160-GW082410	Ba-137m	Filtered	0.02 U	1.3	0.37	0.61
PZ-160	SMPZ-160-GW082410	Ba-137m	Suspended	0.16 U	0.62	0.18	0.29
PZ-160	SMPZ-160-GW082410	Ba-137m	Total	0.18	NA	0.41	NA
PZ-160	SMPZ-160-GW082410	Bi-212	Filtered	-0.04 U	11	3.1	5.1
PZ-160	SMPZ-160-GW082410	Bi-212	Suspended	0.07 U	6.4	1.8	3.1
PZ-160	SMPZ-160-GW082410	Bi-212	Total	0.04	NA	3.6	NA
PZ-160	SMPZ-160-GW082410	Bi-214	Filtered	3	3.1	1	1.4
PZ-160	SMPZ-160-GW082410	Bi-214	Suspended	1.25	1.7	0.67	0.82
PZ-160	SMPZ-160-GW082410	Bi-214	Total	4.2	NA	1.2	NA
PZ-160	SMPZ-160-GW082410	Cd-113m	Filtered	-4400 U	17000	5000	8000
PZ-160	SMPZ-160-GW082410	Cd-113m	Suspended	900 U	7100	2100	3400

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW082410	Cd-113m	Total	-3500	NA	5400	NA
PZ-160	SMPZ-160-GW082410	Cf-249	Filtered	0.4 U R	4.6	1.3	2.1
PZ-160	SMPZ-160-GW082410	Cf-249	Suspended	-0.16 U R	3.1	0.92	1.5
PZ-160	SMPZ-160-GW082410	Cf-249	Total	0.3 R	NA	1.6	NA
PZ-160	SMPZ-160-GW082410	Co-60	Filtered	0.11 U	1.6	0.46	0.74
PZ-160	SMPZ-160-GW082410	Co-60	Suspended	-0.15 U	0.83	0.24	0.39
PZ-160	SMPZ-160-GW082410	Co-60	Total	-0.04	NA	0.52	NA
PZ-160	SMPZ-160-GW082410	Cs-134	Filtered	-0.35 U	1.5	0.43	0.69
PZ-160	SMPZ-160-GW082410	Cs-134	Suspended	-0.24 U	0.93	0.28	0.45
PZ-160	SMPZ-160-GW082410	Cs-134	Total	-0.59	NA	0.51	NA
PZ-160	SMPZ-160-GW082410	Cs-137	Filtered	0.02 U	1.4	0.39	0.64
PZ-160	SMPZ-160-GW082410	Cs-137	Suspended	0.17 U	0.65	0.19	0.31
PZ-160	SMPZ-160-GW082410	Cs-137	Total	0.19	NA	0.44	NA
PZ-160	SMPZ-160-GW082410	Eu-152	Filtered	-0.4 U	3.8	1.1	1.8
PZ-160	SMPZ-160-GW082410	Eu-152	Suspended	0.1 U	1.5	0.43	0.7
PZ-160	SMPZ-160-GW082410	Eu-152	Total	-0.3	NA	1.2	NA
PZ-160	SMPZ-160-GW082410	Eu-154	Filtered	-0.07 U	13	3.5	5.8
PZ-160	SMPZ-160-GW082410	Eu-154	Suspended	-0.9 U	6	1.8	2.8
PZ-160	SMPZ-160-GW082410	Eu-154	Total	-1	NA	3.9	NA
PZ-160	SMPZ-160-GW082410	Eu-155	Filtered	0.4 U	3.2	0.95	1.6
PZ-160	SMPZ-160-GW082410	Eu-155	Suspended	0.24 U	1.2	0.35	0.56
PZ-160	SMPZ-160-GW082410	Eu-155	Total	0.6	NA	1	NA
PZ-160	SMPZ-160-GW082410	gross_alpha	Filtered	16.8	0.6	1	0.3
PZ-160	SMPZ-160-GW082410	gross_alpha	Suspended	5.49	0.64	0.6	0.32
PZ-160	SMPZ-160-GW082410	gross_alpha	Total	22.3	NA	1.2	NA
PZ-160	SMPZ-160-GW082410	gross_beta	Filtered	20	5.8	2.6	3.4
PZ-160	SMPZ-160-GW082410	gross_beta	Suspended	27.7	0.8	1.3	0.5
PZ-160	SMPZ-160-GW082410	gross_beta	Total	47.7	NA	2.9	NA
PZ-160	SMPZ-160-GW082410	H-3	Filtered	-36 U	140	41	68
PZ-160	SMPZ-160-GW082410	H-3	Suspended	10	14	4.7	6.2
PZ-160	SMPZ-160-GW082410	H-3	Total	-27	NA	41	NA
PZ-160	SMPZ-160-GW082410	Ho-166m	Filtered	0.15 U	2.2	0.61	1
PZ-160	SMPZ-160-GW082410	Ho-166m	Suspended	-0.12 U	1.1	0.33	0.54
PZ-160	SMPZ-160-GW082410	Ho-166m	Total	0.03	NA	0.69	NA
PZ-160	SMPZ-160-GW082410	K-40	Filtered	20.5	21	7.2	9.5
PZ-160	SMPZ-160-GW082410	K-40	Suspended	8.2	9.7	3.4	4.6
PZ-160	SMPZ-160-GW082410	K-40	Total	28.7	NA	8	NA
PZ-160	SMPZ-160-GW082410	Na-22	Filtered	-0.17 U	1.8	0.49	0.79

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW082410	Na-22	Suspended	-0.18 U	0.91	0.27	0.43
PZ-160	SMPZ-160-GW082410	Na-22	Total	-0.35	NA	0.56	NA
PZ-160	SMPZ-160-GW082410	Nb-94	Filtered	0.45 U	1.2	0.37	0.57
PZ-160	SMPZ-160-GW082410	Nb-94	Suspended	0.08 U	0.67	0.2	0.32
PZ-160	SMPZ-160-GW082410	Nb-94	Total	0.54	NA	0.42	NA
PZ-160	SMPZ-160-GW082410	Np-236	Filtered	0.53 U	2.5	0.73	1.2
PZ-160	SMPZ-160-GW082410	Np-236	Suspended	0.13 U	1.2	0.35	0.57
PZ-160	SMPZ-160-GW082410	Np-236	Total	0.66	NA	0.81	NA
PZ-160	SMPZ-160-GW082410	Np-239	Filtered	2.4 U	8.5	2.5	4.1
PZ-160	SMPZ-160-GW082410	Np-239	Suspended	-0.2 U	3.7	1.1	1.8
PZ-160	SMPZ-160-GW082410	Np-239	Total	2.2	NA	2.8	NA
PZ-160	SMPZ-160-GW082410	Pa-231	Filtered	27	53	16	25
PZ-160	SMPZ-160-GW082410	Pa-231	Suspended	-0.3 U	26	7.6	12
PZ-160	SMPZ-160-GW082410	Pa-231	Total	27	NA	18	NA
PZ-160	SMPZ-160-GW082410	Pb-212	Filtered	1.25	2.6	0.79	1.2
PZ-160	SMPZ-160-GW082410	Pb-212	Suspended	0.51 U	1.1	0.35	0.55
PZ-160	SMPZ-160-GW082410	Pb-212	Total	1.76	NA	0.86	NA
PZ-160	SMPZ-160-GW082410	Pb-214	Filtered	2.3	3.3	1.3	1.6
PZ-160	SMPZ-160-GW082410	Pb-214	Suspended	1.78	1.4	0.55	0.69
PZ-160	SMPZ-160-GW082410	Pb-214	Total	4.1	NA	1.4	NA
PZ-160	SMPZ-160-GW082410	Sb-125	Filtered	-0.4 U	10	3	5
PZ-160	SMPZ-160-GW082410	Sb-125	Suspended	1 U	5.7	1.7	2.8
PZ-160	SMPZ-160-GW082410	Sb-125	Total	0.6	NA	3.5	NA
PZ-160	SMPZ-160-GW082410	Sn-126	Filtered	0.52 U	1.6	0.47	0.75
PZ-160	SMPZ-160-GW082410	Sn-126	Suspended	0.23 U	0.75	0.22	0.36
PZ-160	SMPZ-160-GW082410	Sn-126	Total	0.74	NA	0.52	NA
PZ-160	SMPZ-160-GW082410	Sr-90	Filtered	0.004 U	0.2	0.055	0.12
PZ-160	SMPZ-160-GW082410	Sr-90	Suspended	0.074 U	0.16	0.047	0.092
PZ-160	SMPZ-160-GW082410	Sr-90	Total	0.078	NA	0.073	NA
PZ-160	SMPZ-160-GW082410	Te-125m	Filtered	-0.09 U	2.4	0.7	1.2
PZ-160	SMPZ-160-GW082410	Te-125m	Suspended	0.23 U	1.3	0.39	0.64
PZ-160	SMPZ-160-GW082410	Te-125m	Total	0.14	NA	0.81	NA
PZ-160	SMPZ-160-GW082410	Th-231	Filtered	0.365	0.018	0.052	0.009
PZ-160	SMPZ-160-GW082410	Th-231	Suspended	0.024	0.016	0.012	0.009
PZ-160	SMPZ-160-GW082410	Th-231	Total	0.389	NA	0.053	NA
PZ-160	SMPZ-160-GW082410	Th-234	Filtered	11.3	21	6.4	10
PZ-160	SMPZ-160-GW082410	Th-234	Suspended	1.1 U	7.2	2.3	3.5
PZ-160	SMPZ-160-GW082410	Th-234	Total	12.3	NA	6.7	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW082410	Tl-208	Filtered	1.17	1.6	0.5	0.73
PZ-160	SMPZ-160-GW082410	Tl-208	Suspended	-0.08 U	0.93	0.29	0.45
PZ-160	SMPZ-160-GW082410	Tl-208	Total	1.09	NA	0.58	NA
PZ-160	SMPZ-160-GW082410	Tm-171	Filtered	100 U	340	100	160
PZ-160	SMPZ-160-GW082410	Tm-171	Suspended	36 U	120	36	58
PZ-160	SMPZ-160-GW082410	Tm-171	Total	140	NA	110	NA
PZ-160	SMPZ-160-GW082410	U-233/234	Filtered	8.7	0.03	0.42	0.008
PZ-160	SMPZ-160-GW082410	U-233/234	Suspended	0.267	0.024	0.038	0.007
PZ-160	SMPZ-160-GW082410	U-233/234	Total	8.97	NA	0.43	NA
PZ-160	SMPZ-160-GW082410	U-235/236	Filtered	0.365	0.018	0.052	0.009
PZ-160	SMPZ-160-GW082410	U-235/236	Suspended	0.024	0.016	0.012	0.009
PZ-160	SMPZ-160-GW082410	U-235/236	Total	0.389	NA	0.053	NA
PZ-160	SMPZ-160-GW082410	U-238	Filtered	8.6	0.01	0.42	0.008
PZ-160	SMPZ-160-GW082410	U-238	Suspended	0.233	0.013	0.035	0.007
PZ-160	SMPZ-160-GW082410	U-238	Total	8.83	NA	0.42	NA
PZ-161	SMPZ-161-GW082510	Ac-227	Filtered	-0.2 U	8	2.4	3.9
PZ-161	SMPZ-161-GW082510	Ac-227	Suspended	-2.4 U	4.8	1.4	2.3
PZ-161	SMPZ-161-GW082510	Ac-227	Total	-2.6	NA	2.8	NA
PZ-161	SMPZ-161-GW082510	Ac-228	Filtered	2.2 U	5	1.5	2.3
PZ-161	SMPZ-161-GW082510	Ac-228	Suspended	-1.1 U	2.9	1.3	1.4
PZ-161	SMPZ-161-GW082510	Ac-228	Total	1.1	NA	2	NA
PZ-161	SMPZ-161-GW082510	Ag-108	Filtered	-0.01 U R	0.11	0.033	0.054
PZ-161	SMPZ-161-GW082510	Ag-108	Suspended	0.013 U R	0.047	0.014	0.022
PZ-161	SMPZ-161-GW082510	Ag-108	Total	0.003 R	NA	0.036	NA
PZ-161	SMPZ-161-GW082510	Ag-108m	Filtered	-0.11 U R	1.2	0.36	0.58
PZ-161	SMPZ-161-GW082510	Ag-108m	Suspended	0.14 U R	0.5	0.15	0.24
PZ-161	SMPZ-161-GW082510	Ag-108m	Total	0.03 R	NA	0.39	NA
PZ-161	SMPZ-161-GW082510	Ba-133	Filtered	-0.05 U R	13	3.9	6.4
PZ-161	SMPZ-161-GW082510	Ba-133	Suspended	0 U R	6.8	2	3.3
PZ-161	SMPZ-161-GW082510	Ba-133	Total	-0.05 R	NA	4.4	NA
PZ-161	SMPZ-161-GW082510	Ba-137m	Filtered	0.17 U	1.4	0.4	0.64
PZ-161	SMPZ-161-GW082510	Ba-137m	Suspended	0.1 U	0.66	0.2	0.32
PZ-161	SMPZ-161-GW082510	Ba-137m	Total	0.27	NA	0.44	NA
PZ-161	SMPZ-161-GW082510	Bi-212	Filtered	-0.5 U	11	3	4.8
PZ-161	SMPZ-161-GW082510	Bi-212	Suspended	2.8 U	6.6	2	3.1
PZ-161	SMPZ-161-GW082510	Bi-212	Total	2.3	NA	3.6	NA
PZ-161	SMPZ-161-GW082510	Bi-214	Filtered	-0.3 U	3	1.2	1.4
PZ-161	SMPZ-161-GW082510	Bi-214	Suspended	0.61 U	1.6	0.55	0.78

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW082510	Bi-214	Total	0.3	NA	1.3	NA
PZ-161	SMPZ-161-GW082510	Cd-113m	Filtered	-6500 U	16000	4800	7600
PZ-161	SMPZ-161-GW082510	Cd-113m	Suspended	700 U	7200	2100	3500
PZ-161	SMPZ-161-GW082510	Cd-113m	Total	-5800	NA	5300	NA
PZ-161	SMPZ-161-GW082510	Cf-249	Filtered	1.3 U R	6.1	1.8	2.9
PZ-161	SMPZ-161-GW082510	Cf-249	Suspended	-0.19 U R	3	0.88	1.4
PZ-161	SMPZ-161-GW082510	Cf-249	Total	1.1 R	NA	2	NA
PZ-161	SMPZ-161-GW082510	Co-60	Filtered	0.004 U	1.5	0.4	0.67
PZ-161	SMPZ-161-GW082510	Co-60	Suspended	0.37	0.7	0.21	0.32
PZ-161	SMPZ-161-GW082510	Co-60	Total	0.37	NA	0.46	NA
PZ-161	SMPZ-161-GW082510	Cs-134	Filtered	-0.3 U	1.6	0.48	0.77
PZ-161	SMPZ-161-GW082510	Cs-134	Suspended	0.02 U	1	0.3	0.49
PZ-161	SMPZ-161-GW082510	Cs-134	Total	-0.28	NA	0.56	NA
PZ-161	SMPZ-161-GW082510	Cs-137	Filtered	0.18 U	1.5	0.42	0.68
PZ-161	SMPZ-161-GW082510	Cs-137	Suspended	0.1 U	0.7	0.21	0.34
PZ-161	SMPZ-161-GW082510	Cs-137	Total	0.28	NA	0.47	NA
PZ-161	SMPZ-161-GW082510	Eu-152	Filtered	0.7 U	3.4	1	1.6
PZ-161	SMPZ-161-GW082510	Eu-152	Suspended	0.04 U	1.7	0.51	0.84
PZ-161	SMPZ-161-GW082510	Eu-152	Total	0.7	NA	1.1	NA
PZ-161	SMPZ-161-GW082510	Eu-154	Filtered	-2.1 U	12	3.6	5.8
PZ-161	SMPZ-161-GW082510	Eu-154	Suspended	0.1 U	6.3	1.8	3
PZ-161	SMPZ-161-GW082510	Eu-154	Total	-2	NA	4	NA
PZ-161	SMPZ-161-GW082510	Eu-155	Filtered	0.11 U	3.3	0.98	1.6
PZ-161	SMPZ-161-GW082510	Eu-155	Suspended	0.03 U	1.1	0.33	0.54
PZ-161	SMPZ-161-GW082510	Eu-155	Total	0.1	NA	1	NA
PZ-161	SMPZ-161-GW082510	gross_alpha	Filtered	12.3	0.59	0.86	0.31
PZ-161	SMPZ-161-GW082510	gross_alpha	Suspended	-0.38 U	1	0.21	0.55
PZ-161	SMPZ-161-GW082510	gross_alpha	Total	11.9	NA	0.88	NA
PZ-161	SMPZ-161-GW082510	gross_beta	Filtered	13	6.8	2.6	4
PZ-161	SMPZ-161-GW082510	gross_beta	Suspended	0.47	0.73	0.23	0.43
PZ-161	SMPZ-161-GW082510	gross_beta	Total	13.5	NA	2.6	NA
PZ-161	SMPZ-161-GW082510	H-3	Filtered	-34 U	140	42	69
PZ-161	SMPZ-161-GW082510	H-3	Suspended	10.4	16	5.1	6.9
PZ-161	SMPZ-161-GW082510	H-3	Total	-23	NA	42	NA
PZ-161	SMPZ-161-GW082510	Ho-166m	Filtered	0.03 U	2.1	0.59	0.96
PZ-161	SMPZ-161-GW082510	Ho-166m	Suspended	0.35 U	1.2	0.35	0.55
PZ-161	SMPZ-161-GW082510	Ho-166m	Total	0.38	NA	0.68	NA
PZ-161	SMPZ-161-GW082510	K-40	Filtered	10.8	19	5.8	8.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW082510	K-40	Suspended	-2.1 U	13	4.4	6.1
PZ-161	SMPZ-161-GW082510	K-40	Total	8.7	NA	7.3	NA
PZ-161	SMPZ-161-GW082510	Na-22	Filtered	0.05 U	1.6	0.45	0.73
PZ-161	SMPZ-161-GW082510	Na-22	Suspended	-0.15 U	0.81	0.24	0.38
PZ-161	SMPZ-161-GW082510	Na-22	Total	-0.1	NA	0.51	NA
PZ-161	SMPZ-161-GW082510	Nb-94	Filtered	-0.32 U	1.3	0.39	0.63
PZ-161	SMPZ-161-GW082510	Nb-94	Suspended	-0.04 U	0.55	0.16	0.26
PZ-161	SMPZ-161-GW082510	Nb-94	Total	-0.36	NA	0.43	NA
PZ-161	SMPZ-161-GW082510	Np-236	Filtered	0.36 U	2.6	0.78	1.3
PZ-161	SMPZ-161-GW082510	Np-236	Suspended	0.003 U	1.1	0.33	0.55
PZ-161	SMPZ-161-GW082510	Np-236	Total	0.36	NA	0.85	NA
PZ-161	SMPZ-161-GW082510	Np-239	Filtered	1.2 U	8.4	2.5	4
PZ-161	SMPZ-161-GW082510	Np-239	Suspended	0.6 U	3.7	1.1	1.8
PZ-161	SMPZ-161-GW082510	Np-239	Total	1.7	NA	2.7	NA
PZ-161	SMPZ-161-GW082510	Pa-231	Filtered	-1 U	58	17	28
PZ-161	SMPZ-161-GW082510	Pa-231	Suspended	0 U	28	8.1	13
PZ-161	SMPZ-161-GW082510	Pa-231	Total	-1	NA	19	NA
PZ-161	SMPZ-161-GW082510	Pb-212	Filtered	1.5	2.6	1	1.3
PZ-161	SMPZ-161-GW082510	Pb-212	Suspended	0.19 U	1.3	0.47	0.65
PZ-161	SMPZ-161-GW082510	Pb-212	Total	1.7	NA	1.1	NA
PZ-161	SMPZ-161-GW082510	Pb-214	Filtered	0.04 U	3.1	0.85	1.5
PZ-161	SMPZ-161-GW082510	Pb-214	Suspended	0.6 U	1.4	0.46	0.66
PZ-161	SMPZ-161-GW082510	Pb-214	Total	0.64	NA	0.96	NA
PZ-161	SMPZ-161-GW082510	Sb-125	Filtered	-1.2 U	13	4	6.5
PZ-161	SMPZ-161-GW082510	Sb-125	Suspended	0.009 U	6.5	1.9	3.2
PZ-161	SMPZ-161-GW082510	Sb-125	Total	-1.2	NA	4.4	NA
PZ-161	SMPZ-161-GW082510	Sn-126	Filtered	0 U	1.9	0.55	0.9
PZ-161	SMPZ-161-GW082510	Sn-126	Suspended	0.27 U	0.74	0.22	0.35
PZ-161	SMPZ-161-GW082510	Sn-126	Total	0.27	NA	0.59	NA
PZ-161	SMPZ-161-GW082510	Sr-90	Filtered	-0.085 U	0.17	0.043	0.1
PZ-161	SMPZ-161-GW082510	Sr-90	Suspended	-0.074 L U	0.14	0.036	0.085
PZ-161	SMPZ-161-GW082510	Sr-90	Total	-0.159 L	NA	0.056	NA
PZ-161	SMPZ-161-GW082510	Te-125m	Filtered	-0.27 U	3.1	0.92	1.5
PZ-161	SMPZ-161-GW082510	Te-125m	Suspended	0.002 U	1.5	0.44	0.73
PZ-161	SMPZ-161-GW082510	Te-125m	Total	-0.3	NA	1	NA
PZ-161	SMPZ-161-GW082510	Th-231	Filtered	0.358	0.044	0.054	0.015
PZ-161	SMPZ-161-GW082510	Th-231	Suspended	0.0126	0.017	0.0089	0.0089
PZ-161	SMPZ-161-GW082510	Th-231	Total	0.37	NA	0.054	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW082510	Th-234	Filtered	12	25	9.1	12
PZ-161	SMPZ-161-GW082510	Th-234	Suspended	-1.7 U	8.1	2.5	3.9
PZ-161	SMPZ-161-GW082510	Th-234	Total	10.3	NA	9.5	NA
PZ-161	SMPZ-161-GW082510	Tl-208	Filtered	1.34	1.6	0.62	0.74
PZ-161	SMPZ-161-GW082510	Tl-208	Suspended	0.19 U	0.85	0.29	0.41
PZ-161	SMPZ-161-GW082510	Tl-208	Total	1.52	NA	0.68	NA
PZ-161	SMPZ-161-GW082510	Tm-171	Filtered	60 U	350	100	170
PZ-161	SMPZ-161-GW082510	Tm-171	Suspended	10 U	100	30	50
PZ-161	SMPZ-161-GW082510	Tm-171	Total	70	NA	110	NA
PZ-161	SMPZ-161-GW082510	U-233/234	Filtered	8.53	0.03	0.42	0.008
PZ-161	SMPZ-161-GW082510	U-233/234	Suspended	0.01 U	0.034	0.012	0.012
PZ-161	SMPZ-161-GW082510	U-233/234	Total	8.54	NA	0.42	NA
PZ-161	SMPZ-161-GW082510	U-235/236	Filtered	0.358	0.044	0.054	0.015
PZ-161	SMPZ-161-GW082510	U-235/236	Suspended	0.0126	0.017	0.0089	0.0089
PZ-161	SMPZ-161-GW082510	U-235/236	Total	0.37	NA	0.054	NA
PZ-161	SMPZ-161-GW082510	U-238	Filtered	7.22	0.04	0.37	0.01
PZ-161	SMPZ-161-GW082510	U-238	Suspended	-0.003 U	0.034	0.0078	0.012
PZ-161	SMPZ-161-GW082510	U-238	Total	7.22	NA	0.37	NA
RD-07	SMRD-07-GW090110	Ac-227	Filtered	-2.6 U	10	3	4.9
RD-07	SMRD-07-GW090110	Ac-227	Suspended	-0.9 U	4.1	1.2	2
RD-07	SMRD-07-GW090110	Ac-227	Total	-3.5	NA	3.2	NA
RD-07	SMRD-07-GW090110	Ac-228	Filtered	2.9	5.3	1.6	2.5
RD-07	SMRD-07-GW090110	Ac-228	Suspended	1.82 B	2.4	0.75	1.1
RD-07	SMRD-07-GW090110	Ac-228	Total	4.7	NA	1.8	NA
RD-07	SMRD-07-GW090110	Ag-108	Filtered	0.016 U R	0.13	0.037	0.06
RD-07	SMRD-07-GW090110	Ag-108	Suspended	0.02 U R	0.046	0.014	0.022
RD-07	SMRD-07-GW090110	Ag-108	Total	0.036 R	NA	0.039	NA
RD-07	SMRD-07-GW090110	Ag-108m	Filtered	0.17 U R	1.3	0.39	0.64
RD-07	SMRD-07-GW090110	Ag-108m	Suspended	0.22 U R	0.49	0.15	0.24
RD-07	SMRD-07-GW090110	Ag-108m	Total	0.39 R	NA	0.42	NA
RD-07	SMRD-07-GW090110	Ba-133	Filtered	-4.2 U R	15	4.4	7
RD-07	SMRD-07-GW090110	Ba-133	Suspended	-1.4 U R	6.1	1.8	2.9
RD-07	SMRD-07-GW090110	Ba-133	Total	-5.6 R	NA	4.7	NA
RD-07	SMRD-07-GW090110	Ba-137m	Filtered	0.58	1.2	0.37	0.56
RD-07	SMRD-07-GW090110	Ba-137m	Suspended	-0.09 U	0.69	0.2	0.33
RD-07	SMRD-07-GW090110	Ba-137m	Total	0.49	NA	0.42	NA
RD-07	SMRD-07-GW090110	Bi-212	Filtered	3.2 U	13	3.7	5.9
RD-07	SMRD-07-GW090110	Bi-212	Suspended	1.9 U	6.1	1.8	2.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-07-GW090110	Bi-212	Total	5.1	NA	4.2	NA
RD-07	SMRD-07-GW090110	Bi-214	Filtered	2.2	3.4	1.1	1.6
RD-07	SMRD-07-GW090110	Bi-214	Suspended	-0.34 U	1.7	0.8	0.84
RD-07	SMRD-07-GW090110	Bi-214	Total	1.8	NA	1.4	NA
RD-07	SMRD-07-GW090110	Cd-113m	Filtered	-3200 U	17000	5100	8200
RD-07	SMRD-07-GW090110	Cd-113m	Suspended	1600 U	7300	2200	3600
RD-07	SMRD-07-GW090110	Cd-113m	Total	-1600	NA	5500	NA
RD-07	SMRD-07-GW090110	Cf-249	Filtered	-0.2 U R	7.1	2.1	3.4
RD-07	SMRD-07-GW090110	Cf-249	Suspended	-1.09 U R	3.2	0.97	1.6
RD-07	SMRD-07-GW090110	Cf-249	Total	-1.3 R	NA	2.3	NA
RD-07	SMRD-07-GW090110	Co-60	Filtered	0.22 U	1.7	0.47	0.75
RD-07	SMRD-07-GW090110	Co-60	Suspended	-0.01 U	0.77	0.22	0.35
RD-07	SMRD-07-GW090110	Co-60	Total	0.2	NA	0.52	NA
RD-07	SMRD-07-GW090110	Cs-134	Filtered	-0.34 U	1.8	0.52	0.83
RD-07	SMRD-07-GW090110	Cs-134	Suspended	0.13 U	0.89	0.26	0.43
RD-07	SMRD-07-GW090110	Cs-134	Total	-0.22 SK	NA	0.58	NA
RD-07	SMRD-07-GW090110	Cs-137	Filtered	0.61	1.3	0.39	0.6
RD-07	SMRD-07-GW090110	Cs-137	Suspended	-0.09 U	0.73	0.21	0.35
RD-07	SMRD-07-GW090110	Cs-137	Total	0.52	NA	0.45	NA
RD-07	SMRD-07-GW090110	Eu-152	Filtered	0.8 U	3.5	1	1.7
RD-07	SMRD-07-GW090110	Eu-152	Suspended	0.36 U	1.8	0.55	0.89
RD-07	SMRD-07-GW090110	Eu-152	Total	1.1	NA	1.2	NA
RD-07	SMRD-07-GW090110	Eu-154	Filtered	1.8 U	12	3.6	5.7
RD-07	SMRD-07-GW090110	Eu-154	Suspended	-1.1 U	6.3	1.8	3
RD-07	SMRD-07-GW090110	Eu-154	Total	0.7	NA	4	NA
RD-07	SMRD-07-GW090110	Eu-155	Filtered	0.4 U	3.5	1	1.7
RD-07	SMRD-07-GW090110	Eu-155	Suspended	0.22 U	1.2	0.36	0.58
RD-07	SMRD-07-GW090110	Eu-155	Total	0.6 SK	NA	1.1	NA
RD-07	SMRD-07-GW090110	gross_alpha	Filtered	19.6	0.5	1.1	0.3
RD-07	SMRD-07-GW090110	gross_alpha	Suspended	0.27 U	0.6	0.18	0.31
RD-07	SMRD-07-GW090110	gross_alpha	Total	19.8	NA	1.1	NA
RD-07	SMRD-07-GW090110	gross_beta	Filtered	12	2.4	1.2	1.4
RD-07	SMRD-07-GW090110	gross_beta	Suspended	-0.12 U	0.78	0.21	0.47
RD-07	SMRD-07-GW090110	gross_beta	Total	11.9	NA	1.3	NA
RD-07	SMRD-07-GW090110	H-3	Filtered	-45 U	140	40	67
RD-07	SMRD-07-GW090110	H-3	Suspended	-18.1 R U	25	5.6	11
RD-07	SMRD-07-GW090110	H-3	Total	-63 R	NA	40	NA
RD-07	SMRD-07-GW090110	Ho-166m	Filtered	0.04 U	1.9	0.54	0.89

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-07-GW090110	Ho-166m	Suspended	0.2 U	1.1	0.31	0.51
RD-07	SMRD-07-GW090110	Ho-166m	Total	0.25 SK	NA	0.63	NA
RD-07	SMRD-07-GW090110	K-40	Filtered	-13 U	25	14	12
RD-07	SMRD-07-GW090110	K-40	Suspended	-6.2 U	11	6	5.3
RD-07	SMRD-07-GW090110	K-40	Total	-19	NA	16	NA
RD-07	SMRD-07-GW090110	Na-22	Filtered	0.1 U	1.2	0.32	0.51
RD-07	SMRD-07-GW090110	Na-22	Suspended	0.09 U	0.68	0.19	0.31
RD-07	SMRD-07-GW090110	Na-22	Total	0.2	NA	0.38	NA
RD-07	SMRD-07-GW090110	Nb-94	Filtered	0.44 U	1.2	0.37	0.57
RD-07	SMRD-07-GW090110	Nb-94	Suspended	0.18 U	0.62	0.19	0.3
RD-07	SMRD-07-GW090110	Nb-94	Total	0.62	NA	0.41	NA
RD-07	SMRD-07-GW090110	Np-236	Filtered	-0.64 U	3	0.91	1.5
RD-07	SMRD-07-GW090110	Np-236	Suspended	-0.12 U	1.2	0.37	0.61
RD-07	SMRD-07-GW090110	Np-236	Total	-0.75 SK	NA	0.98	NA
RD-07	SMRD-07-GW090110	Np-239	Filtered	1.4 U	8.4	2.5	4
RD-07	SMRD-07-GW090110	Np-239	Suspended	0.9 U	3.8	1.1	1.8
RD-07	SMRD-07-GW090110	Np-239	Total	2.3	NA	2.7	NA
RD-07	SMRD-07-GW090110	Pa-231	Filtered	4 U	63	19	30
RD-07	SMRD-07-GW090110	Pa-231	Suspended	0 U	28	8.2	14
RD-07	SMRD-07-GW090110	Pa-231	Total	4	NA	20	NA
RD-07	SMRD-07-GW090110	Pb-212	Filtered	-0.1 U	3	1	1.4
RD-07	SMRD-07-GW090110	Pb-212	Suspended	0.11 U	1.2	0.35	0.57
RD-07	SMRD-07-GW090110	Pb-212	Total	0	NA	1.1	NA
RD-07	SMRD-07-GW090110	Pb-214	Filtered	1.4 U	3.4	1.2	1.6
RD-07	SMRD-07-GW090110	Pb-214	Suspended	-0.34 U	1.5	0.67	0.71
RD-07	SMRD-07-GW090110	Pb-214	Total	1	NA	1.4	NA
RD-07	SMRD-07-GW090110	Sb-125	Filtered	4.2 U	14	4.2	6.7
RD-07	SMRD-07-GW090110	Sb-125	Suspended	1.2 U	6.3	1.9	3
RD-07	SMRD-07-GW090110	Sb-125	Total	5.4 SK	NA	4.6	NA
RD-07	SMRD-07-GW090110	Sn-126	Filtered	-0.1 U	1.5	0.41	0.67
RD-07	SMRD-07-GW090110	Sn-126	Suspended	0.15 U	0.8	0.24	0.38
RD-07	SMRD-07-GW090110	Sn-126	Total	0.05	NA	0.48	NA
RD-07	SMRD-07-GW090110	Sr-90	Filtered	0.088 U	0.19	0.059	0.11
RD-07	SMRD-07-GW090110	Sr-90	Suspended	0.09	0.12	0.037	0.066
RD-07	SMRD-07-GW090110	Sr-90	Total	0.178	NA	0.069	NA
RD-07	SMRD-07-GW090110	Te-125m	Filtered	0.97 U	3.2	0.96	1.5
RD-07	SMRD-07-GW090110	Te-125m	Suspended	0.27 U	1.4	0.43	0.7
RD-07	SMRD-07-GW090110	Te-125m	Total	1.2 SK	NA	1.1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-07-GW090110	Th-231	Filtered	0.482	0.013	0.053	0.008
RD-07	SMRD-07-GW090110	Th-231	Suspended	0.0025 U	0.0068	0.0025	0.0058
RD-07	SMRD-07-GW090110	Th-231	Total	0.485	NA	0.053	NA
RD-07	SMRD-07-GW090110	Th-234	Filtered	8.4 U	22	7.2	11
RD-07	SMRD-07-GW090110	Th-234	Suspended	0.1 U	7.2	2.2	3.5
RD-07	SMRD-07-GW090110	Th-234	Total	8.5	NA	7.5	NA
RD-07	SMRD-07-GW090110	Tl-208	Filtered	0.33 U	2.1	0.56	0.99
RD-07	SMRD-07-GW090110	Tl-208	Suspended	0.05 U	0.97	0.26	0.47
RD-07	SMRD-07-GW090110	Tl-208	Total	0.37	NA	0.62	NA
RD-07	SMRD-07-GW090110	Tm-171	Filtered	10 U	360	110	170
RD-07	SMRD-07-GW090110	Tm-171	Suspended	2 U	120	37	60
RD-07	SMRD-07-GW090110	Tm-171	Total	10	NA	110	NA
RD-07	SMRD-07-GW090110	U-233/234	Filtered	10.8 K	0.01	0.5	0.007
RD-07	SMRD-07-GW090110	U-233/234	Suspended	0.0201	0.019	0.0076	0.0066
RD-07	SMRD-07-GW090110	U-233/234	Total	10.8	NA	0.5	NA
RD-07	SMRD-07-GW090110	U-235/236	Filtered	0.482	0.013	0.053	0.008
RD-07	SMRD-07-GW090110	U-235/236	Suspended	0.0025 U	0.0068	0.0025	0.0058
RD-07	SMRD-07-GW090110	U-235/236	Total	0.485	NA	0.053	NA
RD-07	SMRD-07-GW090110	U-238	Filtered	8.79	0.01	0.41	0.006
RD-07	SMRD-07-GW090110	U-238	Suspended	0.0141	0.0054	0.0053	0.0047
RD-07	SMRD-07-GW090110	U-238	Total	8.8	NA	0.41	NA
RD-13	SMRD-013-GW082410	Ac-227	Filtered	1.4 U	8.8	2.6	4.2
RD-13	SMRD-013-GW082410	Ac-227	Suspended	-0.313 U	3.4	0.996	1.6
RD-13	SMRD-013-GW082410	Ac-227	Total	1.1	NA	2.8	NA
RD-13	SMRD-013-GW082410	Ac-228	Filtered	3.8	5.2	1.6	2.4
RD-13	SMRD-013-GW082410	Ac-228	Suspended	0.96	1.7	0.53	0.78
RD-13	SMRD-013-GW082410	Ac-228	Total	4.7	NA	1.7	NA
RD-13	SMRD-013-GW082410	Ag-108	Filtered	-0.011 U R	0.13	0.038	0.063
RD-13	SMRD-013-GW082410	Ag-108	Suspended	-0.005 U R	0.043	0.013	0.02
RD-13	SMRD-013-GW082410	Ag-108	Total	-0.16 R	NA	0.41	NA
RD-13	SMRD-013-GW082410	Ag-108m	Filtered	-0.12 U R	1.4	0.41	0.68
RD-13	SMRD-013-GW082410	Ag-108m	Suspended	-0.05 U R	0.46	0.14	0.22
RD-13	SMRD-013-GW082410	Ag-108m	Total	-0.17 R	NA	0.44	NA
RD-13	SMRD-013-GW082410	Am-241	Filtered	0.018 U	0.06	0.017	0.029
RD-13	SMRD-013-GW082410	Am-241	Suspended	-0.017 U	0.063	0.012	0.03
RD-13	SMRD-013-GW082410	Am-241	Total	0.0005	NA	0.021	NA
RD-13	SMRD-013-GW082410	Ba-133	Filtered	5.7 U R	13	4	6.4
RD-13	SMRD-013-GW082410	Ba-133	Suspended	-0.2 U R	5.7	1.7	2.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-013-GW082410	Ba-133	Total	5.5 R	NA	4.4	NA
RD-13	SMRD-013-GW082410	Ba-137m	Filtered	-0.4 U	1.8	1.2	0.9
RD-13	SMRD-013-GW082410	Ba-137m	Suspended	0.3	0.52	0.16	0.24
RD-13	SMRD-013-GW082410	Ba-137m	Total	-0.1	NA	1.2	NA
RD-13	SMRD-013-GW082410	Bi-212	Filtered	3.6 U	8.9	2.7	4
RD-13	SMRD-013-GW082410	Bi-212	Suspended	0.8 U	4.5	1.3	2.1
RD-13	SMRD-013-GW082410	Bi-212	Total	4.4	NA	3	NA
RD-13	SMRD-013-GW082410	Bi-214	Filtered	2.7	3.3	1	1.6
RD-13	SMRD-013-GW082410	Bi-214	Suspended	-0.62 U	1.4	0.6	0.66
RD-13	SMRD-013-GW082410	Bi-214	Total	2	NA	1.2	NA
RD-13	SMRD-013-GW082410	C-14	Filtered	-0.28 U	2.3	0.69	1.1
RD-13	SMRD-013-GW082410	C-14	Suspended	0.6 U R	2.3	0.69	1.1
RD-13	SMRD-013-GW082410	C-14	Total	0.32 R	NA	0.98	NA
RD-13	SMRD-013-GW082410	Cd-113m	Filtered	-3300 U	18000	5500	8900
RD-13	SMRD-013-GW082410	Cd-113m	Suspended	1800 U	5800	1700	2800
RD-13	SMRD-013-GW082410	Cd-113m	Total	-1500	NA	5800	NA
RD-13	SMRD-013-GW082410	Cf-249	Filtered	1.5 U R	5.9	1.7	2.8
RD-13	SMRD-013-GW082410	Cf-249	Suspended	0 U R	2.8	0.8	1.3
RD-13	SMRD-013-GW082410	Cf-249	Total	1.5 R	NA	1.9	NA
RD-13	SMRD-013-GW082410	Cm-243/244	Filtered	-0.017 U	0.088	0.021	0.045
RD-13	SMRD-013-GW082410	Cm-243/244	Suspended	-0.015 U	0.08	0.018	0.04
RD-13	SMRD-013-GW082410	Cm-243/244	Total	-0.032	NA	0.028	NA
RD-13	SMRD-013-GW082410	Cm-245/246	Filtered	0.021	0.034	0.011	0.014
RD-13	SMRD-013-GW082410	Cm-245/246	Suspended	0.0105 U	0.027	0.008	0.011
RD-13	SMRD-013-GW082410	Cm-245/246	Total	0.032	NA	0.014	NA
RD-13	SMRD-013-GW082410	Co-60	Filtered	0.009 U	1.6	0.44	0.72
RD-13	SMRD-013-GW082410	Co-60	Suspended	0 U	0.2	0.042	0.068
RD-13	SMRD-013-GW082410	Co-60	Total	0.009	NA	0.44	NA
RD-13	SMRD-013-GW082410	Cs-134	Filtered	-0.19 U	1.6	0.46	0.75
RD-13	SMRD-013-GW082410	Cs-134	Suspended	0.09 U	0.58	0.17	0.27
RD-13	SMRD-013-GW082410	Cs-134	Total	-0.1	NA	0.49	NA
RD-13	SMRD-013-GW082410	Cs-137	Filtered	-0.4 U	1.9	1.2	0.9
RD-13	SMRD-013-GW082410	Cs-137	Suspended	0.31	0.55	0.17	0.26
RD-13	SMRD-013-GW082410	Cs-137	Total	-0.1	NA	1.2	NA
RD-13	SMRD-013-GW082410	Eu-152	Filtered	-0.8 U	4.5	1.3	2.1
RD-13	SMRD-013-GW082410	Eu-152	Suspended	-0.07 U	1.2	0.33	0.55
RD-13	SMRD-013-GW082410	Eu-152	Total	-0.8	NA	1.4	NA
RD-13	SMRD-013-GW082410	Eu-154	Filtered	-2.4 U	14	4.2	6.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-013-GW082410	Eu-154	Suspended	-0.6 U	5.6	1.6	2.6
RD-13	SMRD-013-GW082410	Eu-154	Total	-3	NA	4.5	NA
RD-13	SMRD-013-GW082410	Eu-155	Filtered	0 U	3.2	0.95	1.6
RD-13	SMRD-013-GW082410	Eu-155	Suspended	0.61 SK	1	0.31	0.49
RD-13	SMRD-013-GW082410	Eu-155	Total	0.613 SK	NA	0.998	NA
RD-13	SMRD-013-GW082410	gross_alpha	Filtered	5.84	0.4	0.55	0.21
RD-13	SMRD-013-GW082410	gross_alpha	Suspended	0.41	0.55	0.19	0.27
RD-13	SMRD-013-GW082410	gross_alpha	Total	4.56	NA	0.48	NA
RD-13	SMRD-013-GW082410	gross_beta	Filtered	5.5	2.8	1	1.6
RD-13	SMRD-013-GW082410	gross_beta	Suspended	0.3 U	0.72	0.22	0.43
RD-13	SMRD-013-GW082410	gross_beta	Total	5.9	NA	1	NA
RD-13	SMRD-013-GW082410	H-3	Filtered	-28 U	150	42	70
RD-13	SMRD-013-GW082410	H-3	Suspended	-1.6 U R	23	6.7	11
RD-13	SMRD-013-GW082410	H-3	Total	-30 R	NA	42	NA
RD-13	SMRD-013-GW082410	Ho-166m	Filtered	-0.23 U	2.5	0.71	1.2
RD-13	SMRD-013-GW082410	Ho-166m	Suspended	0.12 U	0.94	0.27	0.44
RD-13	SMRD-013-GW082410	Ho-166m	Total	-0.11	NA	0.76	NA
RD-13	SMRD-013-GW082410	I-129	Filtered	0.09 U	0.47	0.14	0.23
RD-13	SMRD-013-GW082410	I-129	Suspended	0.05 U	0.54	0.16	0.27
RD-13	SMRD-013-GW082410	I-129	Total	0.14	NA	0.22	NA
RD-13	SMRD-013-GW082410	K-40	Filtered	-19 U	27	33	13
RD-13	SMRD-013-GW082410	K-40	Suspended	-2.2 U	9.8	3.3	4.6
RD-13	SMRD-013-GW082410	K-40	Total	-21	NA	33	NA
RD-13	SMRD-013-GW082410	Na-22	Filtered	0.02 U	1.9	0.53	0.87
RD-13	SMRD-013-GW082410	Na-22	Suspended	0.15 U	0.56	0.16	0.25
RD-13	SMRD-013-GW082410	Na-22	Total	0.17	NA	0.56	NA
RD-13	SMRD-013-GW082410	Nb-94	Filtered	-0.42 U	1.6	0.48	0.77
RD-13	SMRD-013-GW082410	Nb-94	Suspended	0.14 U	0.5	0.15	0.23
RD-13	SMRD-013-GW082410	Nb-94	Total	-0.27	NA	0.5	NA
RD-13	SMRD-013-GW082410	Np-236	Filtered	0.03 U	2.6	0.76	1.3
RD-13	SMRD-013-GW082410	Np-236	Suspended	0.12 U	1	0.31	0.51
RD-13	SMRD-013-GW082410	Np-236	Total	0.15	NA	0.82	NA
RD-13	SMRD-013-GW082410	Np-237	Suspended	0.0016 U	0.018	0.0037	0.0054
RD-13	SMRD-013-GW082410	Np-237	Total	0.0016	NA	0.0052	NA
RD-13	SMRD-013-GW082410	Np-239	Filtered	-0.4 U	8.6	2.5	4.1
RD-13	SMRD-013-GW082410	Np-239	Suspended	0.02 U	3.2	0.94	1.5
RD-13	SMRD-013-GW082410	Np-239	Total	-0.3	NA	2.7	NA
RD-13	SMRD-013-GW082410	Pa-231	Filtered	0 U	65	19	31

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-013-GW082410	Pa-231	Suspended	-6.4 U	25	7.5	12
RD-13	SMRD-013-GW082410	Pa-231	Total	-6	NA	20	NA
RD-13	SMRD-013-GW082410	Pb-212	Filtered	1.9	3.1	1.3	1.5
RD-13	SMRD-013-GW082410	Pb-212	Suspended	0.15 U	0.93	0.31	0.45
RD-13	SMRD-013-GW082410	Pb-212	Total	2	NA	1.3	NA
RD-13	SMRD-013-GW082410	Pb-214	Filtered	0.3 U	3.8	1	1.8
RD-13	SMRD-013-GW082410	Pb-214	Suspended	0.96	1	0.32	0.47
RD-13	SMRD-013-GW082410	Pb-214	Total	1.2	NA	1.1	NA
RD-13	SMRD-013-GW082410	Pu-238	Filtered	-0.022 U	0.069	0.014	0.034
RD-13	SMRD-013-GW082410	Pu-238	Suspended	0.014 U	0.078	0.021	0.039
RD-13	SMRD-013-GW082410	Pu-238	Total	-0.008	NA	0.025	NA
RD-13	SMRD-013-GW082410	Pu-239/240	Filtered	-0.0023 U	0.035	0.0058	0.013
RD-13	SMRD-013-GW082410	Pu-239/240	Suspended	-0.058 R U	0.084	0.014	0.043
RD-13	SMRD-013-GW082410	Pu-239/240	Total	-0.06 R	NA	0.015	NA
RD-13	SMRD-013-GW082410	Pu-242	Filtered	0.0041 U	0.032	0.0073	0.012
RD-13	SMRD-013-GW082410	Pu-242	Suspended	-0.0081 U	0.045	0.007	0.019
RD-13	SMRD-013-GW082410	Pu-242	Total	-0.004	NA	0.01	NA
RD-13	SMRD-013-GW082410	Ra-226	Filtered	0.9	0.17	0.12	0.09
RD-13	SMRD-013-GW082410	Ra-226	Suspended	0.118	0.12	0.044	0.064
RD-13	SMRD-013-GW082410	Ra-226	Total	1.01	NA	0.12	NA
RD-13	SMRD-013-GW082410	Sb-125	Filtered	0.09 U	13	3.9	6.4
RD-13	SMRD-013-GW082410	Sb-125	Suspended	0.1 U	4.9	1.4	2.4
RD-13	SMRD-013-GW082410	Sb-125	Total	0.2	NA	4.1	NA
RD-13	SMRD-013-GW082410	Sn-126	Filtered	-0.33 U	1.8	0.53	0.85
RD-13	SMRD-013-GW082410	Sn-126	Suspended	0.09 U	0.68	0.2	0.32
RD-13	SMRD-013-GW082410	Sn-126	Total	-0.25	NA	0.57	NA
RD-13	SMRD-013-GW082410	Sr-90	Filtered	0.111 U	0.23	0.07	0.14
RD-13	SMRD-013-GW082410	Sr-90	Suspended	-0.023 U	0.16	0.045	0.098
RD-13	SMRD-013-GW082410	Sr-90	Total	0.089	NA	0.083	NA
RD-13	SMRD-013-GW082410	Tc-99	Filtered	-0.21 U R	1.4	0.42	0.7
RD-13	SMRD-013-GW082410	Tc-99	Suspended	0.24 U	1.4	0.42	0.68
RD-13	SMRD-013-GW082410	Tc-99	Total	0.03 R	NA	0.59	NA
RD-13	SMRD-013-GW082410	Te-125m	Filtered	0.02 U	3.1	0.89	1.5
RD-13	SMRD-013-GW082410	Te-125m	Suspended	0.03 U	1.1	0.33	0.55
RD-13	SMRD-013-GW082410	Te-125m	Total	0.2	NA	3.9	NA
RD-13	SMRD-013-GW082410	Th-231	Filtered	0.064	0.038	0.021	0.013
RD-13	SMRD-013-GW082410	Th-231	Suspended	-0.003 U	0.044	0.0093	0.014
RD-13	SMRD-013-GW082410	Th-231	Total	0.061	NA	0.023	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-013-GW082410	Th-234	Filtered	6.3 U	23	7.3	11
RD-13	SMRD-013-GW082410	Th-234	Suspended	-0.2 U	6.8	1.9	3.3
RD-13	SMRD-013-GW082410	Th-234	Total	6.1	NA	7.6	NA
RD-13	SMRD-013-GW082410	Tl-208	Filtered	1.46	1.9	0.8	0.91
RD-13	SMRD-013-GW082410	Tl-208	Suspended	-0.79 U	0.85	0.71	0.41
RD-13	SMRD-013-GW082410	Tl-208	Total	0.7	NA	1.1	NA
RD-13	SMRD-013-GW082410	Tm-171	Filtered	120 U	380	110	180
RD-13	SMRD-013-GW082410	Tm-171	Suspended	-21 U	98	29	47
RD-13	SMRD-013-GW082410	Tm-171	Total	100	NA	120	NA
RD-13	SMRD-013-GW082410	U-233/234	Filtered	2.54	0.04	0.16	0.02
RD-13	SMRD-013-GW082410	U-233/234	Suspended	-0.0112 U	0.04	0.0098	0.014
RD-13	SMRD-013-GW082410	U-233/234	Total	2.53	NA	0.16	NA
RD-13	SMRD-013-GW082410	U-235/236	Filtered	0.064	0.038	0.021	0.013
RD-13	SMRD-013-GW082410	U-235/236	Suspended	-0.003 U	0.044	0.0093	0.014
RD-13	SMRD-013-GW082410	U-235/236	Total	0.061	NA	0.023	NA
RD-13	SMRD-013-GW082410	U-238	Filtered	1.85	0.04	0.12	0.02
RD-13	SMRD-013-GW082410	U-238	Suspended	0.0032 U	0.029	0.0092	0.0079
RD-13	SMRD-013-GW082410	U-238	Total	1.85	NA	0.12	NA
RD-14	SMRD-14-GW081910	Ac-227	Filtered	-5 U	9.3	2.8	4.5
RD-14	SMRD-14-GW081910	Ac-227	Suspended	0 U	5.5	1.6	2.7
RD-14	SMRD-14-GW081910	Ac-227	Total	-5	NA	3.3	NA
RD-14	SMRD-14-GW081910	Ac-228	Filtered	4.1	5	1.6	2.3
RD-14	SMRD-14-GW081910	Ac-228	Suspended	-1 U	3	1.3	1.4
RD-14	SMRD-14-GW081910	Ac-228	Total	3.1	NA	2.1	NA
RD-14	SMRD-14-GW081910	Ag-108	Filtered	0.02 U R	0.095	0.028	0.045
RD-14	SMRD-14-GW081910	Ag-108	Suspended	0.013 U R	0.045	0.014	0.022
RD-14	SMRD-14-GW081910	Ag-108	Total	0.034 R	NA	0.031	NA
RD-14	SMRD-14-GW081910	Ag-108m	Filtered	0.22 U R	1	0.3	0.48
RD-14	SMRD-14-GW081910	Ag-108m	Suspended	0.14 U R	0.49	0.15	0.23
RD-14	SMRD-14-GW081910	Ag-108m	Total	0.36 R	NA	0.33	NA
RD-14	SMRD-14-GW081910	Ba-133	Filtered	2.5 U R	11	3.2	5.2
RD-14	SMRD-14-GW081910	Ba-133	Suspended	0.7 U R	4.7	1.4	2.2
RD-14	SMRD-14-GW081910	Ba-133	Total	3.3 R	NA	3.5	NA
RD-14	SMRD-14-GW081910	Ba-137m	Filtered	-0.22 U	1.5	0.43	0.7
RD-14	SMRD-14-GW081910	Ba-137m	Suspended	0.17 U	0.6	0.18	0.28
RD-14	SMRD-14-GW081910	Ba-137m	Total	-0.05	NA	0.47	NA
RD-14	SMRD-14-GW081910	Bi-212	Filtered	-1.6 U	13	3.8	6.2
RD-14	SMRD-14-GW081910	Bi-212	Suspended	0 U	8	2.3	3.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW081910	Bi-212	Total	-1.6	NA	4.5	NA
RD-14	SMRD-14-GW081910	Bi-214	Filtered	-0.2 U	3	0.87	1.4
RD-14	SMRD-14-GW081910	Bi-214	Suspended	1.69	1.6	0.65	0.79
RD-14	SMRD-14-GW081910	Bi-214	Total	1.5	NA	1.1	NA
RD-14	SMRD-14-GW081910	Cd-113m	Filtered	2300 U	12000	3600	5900
RD-14	SMRD-14-GW081910	Cd-113m	Suspended	-700 U	7000	2100	3400
RD-14	SMRD-14-GW081910	Cd-113m	Total	1500	NA	4200	NA
RD-14	SMRD-14-GW081910	Cf-249	Filtered	1.1 U R	5.9	1.7	2.8
RD-14	SMRD-14-GW081910	Cf-249	Suspended	-0.51 U R	2.9	0.87	1.4
RD-14	SMRD-14-GW081910	Cf-249	Total	0.6 R	NA	1.9	NA
RD-14	SMRD-14-GW081910	Co-60	Filtered	0.37 U	1.3	0.38	0.59
RD-14	SMRD-14-GW081910	Co-60	Suspended	0.28 U	0.67	0.2	0.31
RD-14	SMRD-14-GW081910	Co-60	Total	0.65	NA	0.43	NA
RD-14	SMRD-14-GW081910	Cs-134	Filtered	-0.64 U	1.7	0.51	0.81
RD-14	SMRD-14-GW081910	Cs-134	Suspended	-0.005 U	0.78	0.23	0.37
RD-14	SMRD-14-GW081910	Cs-134	Total	-0.65	NA	0.56	NA
RD-14	SMRD-14-GW081910	Cs-137	Filtered	-0.23 U	1.6	0.46	0.74
RD-14	SMRD-14-GW081910	Cs-137	Suspended	0.18 U	0.63	0.19	0.3
RD-14	SMRD-14-GW081910	Cs-137	Total	-0.05	NA	0.49	NA
RD-14	SMRD-14-GW081910	Eu-152	Filtered	0.17 U	3	0.87	1.4
RD-14	SMRD-14-GW081910	Eu-152	Suspended	-0.38 U	1.8	0.53	0.86
RD-14	SMRD-14-GW081910	Eu-152	Total	-0.2	NA	1	NA
RD-14	SMRD-14-GW081910	Eu-154	Filtered	2.6 U	11	3.2	5
RD-14	SMRD-14-GW081910	Eu-154	Suspended	2.2 U	5.5	1.6	2.6
RD-14	SMRD-14-GW081910	Eu-154	Total	4.8	NA	3.6	NA
RD-14	SMRD-14-GW081910	Eu-155	Filtered	-0.2 U	2.2	0.64	1.1
RD-14	SMRD-14-GW081910	Eu-155	Suspended	0.05 U	1.2	0.35	0.58
RD-14	SMRD-14-GW081910	Eu-155	Total	-0.15	NA	0.73	NA
RD-14	SMRD-14-GW081910	gross_alpha	Filtered	3.92	0.51	0.39	0.28
RD-14	SMRD-14-GW081910	gross_alpha	Suspended	1.02	0.64	0.27	0.33
RD-14	SMRD-14-GW081910	gross_alpha	Total	4.94	NA	0.48	NA
RD-14	SMRD-14-GW081910	gross_beta	Filtered	4.93	1.2	0.57	0.72
RD-14	SMRD-14-GW081910	gross_beta	Suspended	1.51	0.8	0.3	0.47
RD-14	SMRD-14-GW081910	gross_beta	Total	6.44	NA	0.64	NA
RD-14	SMRD-14-GW081910	H-3	Filtered	6 U	140	41	68
RD-14	SMRD-14-GW081910	H-3	Suspended	14.4	12	4.5	5.2
RD-14	SMRD-14-GW081910	H-3	Total	21	NA	42	NA
RD-14	SMRD-14-GW081910	Ho-166m	Filtered	-0.04 U	1.9	0.53	0.87

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW081910	Ho-166m	Suspended	0.01 U	1.1	0.32	0.53
RD-14	SMRD-14-GW081910	Ho-166m	Total	-0.03	NA	0.62	NA
RD-14	SMRD-14-GW081910	K-40	Filtered	29.5	6.9	5	2.8
RD-14	SMRD-14-GW081910	K-40	Suspended	5.7	12	3.6	5.7
RD-14	SMRD-14-GW081910	K-40	Total	35.3	NA	6.1	NA
RD-14	SMRD-14-GW081910	Na-22	Filtered	-0.38 U	1.6	0.47	0.74
RD-14	SMRD-14-GW081910	Na-22	Suspended	0.18 U	0.81	0.24	0.38
RD-14	SMRD-14-GW081910	Na-22	Total	-0.2	NA	0.53	NA
RD-14	SMRD-14-GW081910	Nb-94	Filtered	0.41 U	1.1	0.32	0.5
RD-14	SMRD-14-GW081910	Nb-94	Suspended	-0.29 U	0.67	0.2	0.32
RD-14	SMRD-14-GW081910	Nb-94	Total	0.12	NA	0.38	NA
RD-14	SMRD-14-GW081910	Np-236	Filtered	-0.24 U	2.4	0.7	1.2
RD-14	SMRD-14-GW081910	Np-236	Suspended	-0.21 U	1.2	0.37	0.61
RD-14	SMRD-14-GW081910	Np-236	Total	-0.44	NA	0.8	NA
RD-14	SMRD-14-GW081910	Np-239	Filtered	-1.2 U	7.1	2.1	3.4
RD-14	SMRD-14-GW081910	Np-239	Suspended	-1.3 U	3.7	1.1	1.8
RD-14	SMRD-14-GW081910	Np-239	Total	-2.5	NA	2.4	NA
RD-14	SMRD-14-GW081910	Pa-231	Filtered	4 U	50	15	24
RD-14	SMRD-14-GW081910	Pa-231	Suspended	-6 U	26	7.8	13
RD-14	SMRD-14-GW081910	Pa-231	Total	-2	NA	16	NA
RD-14	SMRD-14-GW081910	Pb-212	Filtered	-0.7 U	2.7	1.2	1.3
RD-14	SMRD-14-GW081910	Pb-212	Suspended	-0.29 U	1.3	0.51	0.62
RD-14	SMRD-14-GW081910	Pb-212	Total	-1	NA	1.3	NA
RD-14	SMRD-14-GW081910	Pb-214	Filtered	0.006 U	2.9	0.78	1.4
RD-14	SMRD-14-GW081910	Pb-214	Suspended	1.58	1.4	0.58	0.7
RD-14	SMRD-14-GW081910	Pb-214	Total	1.58	NA	0.97	NA
RD-14	SMRD-14-GW081910	Sb-125	Filtered	-1.6 U	13	4	6.5
RD-14	SMRD-14-GW081910	Sb-125	Suspended	1.8 U	6	1.8	2.9
RD-14	SMRD-14-GW081910	Sb-125	Total	0.2	NA	4.4	NA
RD-14	SMRD-14-GW081910	Sn-126	Filtered	-0.36 U	1.6	0.46	0.74
RD-14	SMRD-14-GW081910	Sn-126	Suspended	0.17 U	0.76	0.23	0.37
RD-14	SMRD-14-GW081910	Sn-126	Total	-0.2	NA	0.52	NA
RD-14	SMRD-14-GW081910	Sr-90	Suspended	-0.005 U	0.074	0.021	0.042
RD-14	SMRD-14-GW081910	Sr-90	Total	0.034	NA	0.051	NA
RD-14	SMRD-14-GW081910	Te-125m	Filtered	-0.38 U	3.1	0.92	1.5
RD-14	SMRD-14-GW081910	Te-125m	Suspended	0.42 U	1.4	0.42	0.68
RD-14	SMRD-14-GW081910	Te-125m	Total	0.04	NA	1	NA
RD-14	SMRD-14-GW081910	Th-231	Filtered	0.104	0.044	0.027	0.017

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW081910	Th-231	Suspended	0 U	0.015	0.0021	0.0081
RD-14	SMRD-14-GW081910	Th-231	Total	0.104	NA	0.027	NA
RD-14	SMRD-14-GW081910	Th-234	Filtered	11.2	21	6.7	10
RD-14	SMRD-14-GW081910	Th-234	Suspended	-2.9 U	8.6	3.5	4.2
RD-14	SMRD-14-GW081910	Th-234	Total	8.4	NA	7.6	NA
RD-14	SMRD-14-GW081910	Tl-208	Filtered	-1.1 U	1.7	5.8	0.8
RD-14	SMRD-14-GW081910	Tl-208	Suspended	0.15 U	0.82	0.3	0.39
RD-14	SMRD-14-GW081910	Tl-208	Total	-1	NA	5.8	NA
RD-14	SMRD-14-GW081910	Tm-171	Filtered	36 U	320	95	160
RD-14	SMRD-14-GW081910	Tm-171	Suspended	4 U	130	39	65
RD-14	SMRD-14-GW081910	Tm-171	Total	40	NA	100	NA
RD-14	SMRD-14-GW081910	U-233/234	Filtered	2.35	0.04	0.14	0.01
RD-14	SMRD-14-GW081910	U-233/234	Suspended	0.013 U	0.043	0.014	0.018
RD-14	SMRD-14-GW081910	U-233/234	Total	2.36	NA	0.15	NA
RD-14	SMRD-14-GW081910	U-235/236	Filtered	0.104	0.044	0.027	0.017
RD-14	SMRD-14-GW081910	U-235/236	Suspended	0 U	0.015	0.0021	0.0081
RD-14	SMRD-14-GW081910	U-235/236	Total	0.104	NA	0.027	NA
RD-14	SMRD-14-GW081910	U-238	Filtered	2.07	0.01	0.13	0.007
RD-14	SMRD-14-GW081910	U-238	Suspended	0.022	0.028	0.012	0.009
RD-14	SMRD-14-GW081910	U-238	Total	2.09	NA	0.13	NA
RD-15	SMRD-15-GW082610	Ac-227	Filtered	-8.5 L U	11	3.5	5.5
RD-15	SMRD-15-GW082610	Ac-227	Suspended	-1.6 U	4.1	1.2	2
RD-15	SMRD-15-GW082610	Ac-227	Total	-10.1 L	NA	3.7	NA
RD-15	SMRD-15-GW082610	Ac-228	Filtered	5.4	5.3	1.4	2.4
RD-15	SMRD-15-GW082610	Ac-228	Suspended	1.42 B	2.1	0.66	0.98
RD-15	SMRD-15-GW082610	Ac-228	Total	6.8	NA	1.6	NA
RD-15	SMRD-15-GW082610	Ag-108	Filtered	0 U R	0.11	0.033	0.054
RD-15	SMRD-15-GW082610	Ag-108	Suspended	0.013 U R	0.043	0.013	0.02
RD-15	SMRD-15-GW082610	Ag-108	Total	0.013 R	NA	0.035	NA
RD-15	SMRD-15-GW082610	Ag-108m	Filtered	0 U R	1.2	0.35	0.58
RD-15	SMRD-15-GW082610	Ag-108m	Suspended	0.14 U R	0.46	0.14	0.22
RD-15	SMRD-15-GW082610	Ag-108m	Total	0.14 R	NA	0.38	NA
RD-15	SMRD-15-GW082610	Ba-133	Filtered	0.07 U R	14	3.9	6.5
RD-15	SMRD-15-GW082610	Ba-133	Suspended	1.5 U R	5.8	1.7	2.8
RD-15	SMRD-15-GW082610	Ba-133	Total	1.6 R	NA	4.3	NA
RD-15	SMRD-15-GW082610	Ba-137m	Filtered	0 U	1.9	0.53	0.88
RD-15	SMRD-15-GW082610	Ba-137m	Suspended	0.53	0.66	0.27	0.31
RD-15	SMRD-15-GW082610	Ba-137m	Total	0.53	NA	0.6	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW082610	Bi-212	Filtered	-0.09 U	12	3.4	5.5
RD-15	SMRD-15-GW082610	Bi-212	Suspended	2.2 U	5.3	1.6	2.5
RD-15	SMRD-15-GW082610	Bi-212	Total	2.2	NA	3.7	NA
RD-15	SMRD-15-GW082610	Bi-214	Filtered	2.49	3.3	0.75	1.5
RD-15	SMRD-15-GW082610	Bi-214	Suspended	-0.7 U	1.7	1.2	0.8
RD-15	SMRD-15-GW082610	Bi-214	Total	1.8	NA	1.4	NA
RD-15	SMRD-15-GW082610	Cd-113m	Filtered	3600 U	15000	4600	7300
RD-15	SMRD-15-GW082610	Cd-113m	Suspended	100 U	6900	2000	3300
RD-15	SMRD-15-GW082610	Cd-113m	Total	3800	NA	5000	NA
RD-15	SMRD-15-GW082610	Cf-249	Filtered	2 U R	6.4	1.9	3
RD-15	SMRD-15-GW082610	Cf-249	Suspended	0.98 U R	2.6	0.79	1.3
RD-15	SMRD-15-GW082610	Cf-249	Total	3 R	NA	2.1	NA
RD-15	SMRD-15-GW082610	Co-60	Filtered	0.06 U	1.8	0.48	0.79
RD-15	SMRD-15-GW082610	Co-60	Suspended	0.08 U	0.78	0.22	0.35
RD-15	SMRD-15-GW082610	Co-60	Total	0.15	NA	0.53	NA
RD-15	SMRD-15-GW082610	Cs-134	Filtered	-0.28 U	1.7	0.5	0.81
RD-15	SMRD-15-GW082610	Cs-134	Suspended	-0.17 U	0.85	0.25	0.41
RD-15	SMRD-15-GW082610	Cs-134	Total	-0.45 SK	NA	0.56	NA
RD-15	SMRD-15-GW082610	Cs-137	Filtered	0 U	2	0.56	0.93
RD-15	SMRD-15-GW082610	Cs-137	Suspended	0.57	0.7	0.28	0.33
RD-15	SMRD-15-GW082610	Cs-137	Total	0.57	NA	0.63	NA
RD-15	SMRD-15-GW082610	Eu-152	Filtered	-0.1 U	3.8	1.1	1.8
RD-15	SMRD-15-GW082610	Eu-152	Suspended	-0.003 U	1.6	0.46	0.76
RD-15	SMRD-15-GW082610	Eu-152	Total	-0.1	NA	1.2	NA
RD-15	SMRD-15-GW082610	Eu-154	Filtered	-1.2 U	11	3	4.8
RD-15	SMRD-15-GW082610	Eu-154	Suspended	0 U	5.2	1.5	2.4
RD-15	SMRD-15-GW082610	Eu-154	Total	-1.2	NA	3.3	NA
RD-15	SMRD-15-GW082610	Eu-155	Filtered	-0.03 U	3.4	1	1.7
RD-15	SMRD-15-GW082610	Eu-155	Suspended	0.13 U	1.2	0.36	0.58
RD-15	SMRD-15-GW082610	Eu-155	Total	0.1 SK	NA	1.1	NA
RD-15	SMRD-15-GW082610	gross_alpha	Filtered	11.5	0.81	0.9	0.44
RD-15	SMRD-15-GW082610	gross_alpha	Suspended	0.57	0.88	0.29	0.46
RD-15	SMRD-15-GW082610	gross_alpha	Total	12	NA	0.94	NA
RD-15	SMRD-15-GW082610	gross_beta	Filtered	11.8	2.5	1.2	1.4
RD-15	SMRD-15-GW082610	gross_beta	Suspended	0.39 U	0.7	0.22	0.41
RD-15	SMRD-15-GW082610	gross_beta	Total	12.2	NA	1.3	NA
RD-15	SMRD-15-GW082610	H-3	Filtered	56 U	130	40	65
RD-15	SMRD-15-GW082610	H-3	Suspended	6.9 U R	23	6.6	10

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW082610	H-3	Total	63 R	NA	41	NA
RD-15	SMRD-15-GW082610	Ho-166m	Filtered	-0.14 U	2.5	0.71	1.2
RD-15	SMRD-15-GW082610	Ho-166m	Suspended	0.16 U	1	0.3	0.49
RD-15	SMRD-15-GW082610	Ho-166m	Total	0.02 SK	NA	0.77	NA
RD-15	SMRD-15-GW082610	K-40	Filtered	-12 U	25	13	12
RD-15	SMRD-15-GW082610	K-40	Suspended	-5.8 U	10	8.2	4.8
RD-15	SMRD-15-GW082610	K-40	Total	-18	NA	16	NA
RD-15	SMRD-15-GW082610	Na-22	Filtered	0.01 U	1.8	0.5	0.82
RD-15	SMRD-15-GW082610	Na-22	Suspended	0.15 U	0.66	0.19	0.29
RD-15	SMRD-15-GW082610	Na-22	Total	0.16	NA	0.54	NA
RD-15	SMRD-15-GW082610	Nb-94	Filtered	-0.08 U	1.3	0.38	0.62
RD-15	SMRD-15-GW082610	Nb-94	Suspended	0.22 U	0.56	0.17	0.26
RD-15	SMRD-15-GW082610	Nb-94	Total	0.13	NA	0.41	NA
RD-15	SMRD-15-GW082610	Np-236	Filtered	-0.45 U	2.9	0.85	1.4
RD-15	SMRD-15-GW082610	Np-236	Suspended	0.46 SK	0.95	0.29	0.46
RD-15	SMRD-15-GW082610	Np-236	Total	0.01 SK	NA	0.89	NA
RD-15	SMRD-15-GW082610	Np-239	Filtered	-0.7 U	6.5	1.9	3.1
RD-15	SMRD-15-GW082610	Np-239	Suspended	0.62 U	2.5	0.75	1.2
RD-15	SMRD-15-GW082610	Np-239	Total	-0.1	NA	2	NA
RD-15	SMRD-15-GW082610	Pa-231	Filtered	11 U	59	18	28
RD-15	SMRD-15-GW082610	Pa-231	Suspended	1.1 U	27	7.9	13
RD-15	SMRD-15-GW082610	Pa-231	Total	12	NA	19	NA
RD-15	SMRD-15-GW082610	Pb-212	Filtered	1.57	2.9	0.95	1.4
RD-15	SMRD-15-GW082610	Pb-212	Suspended	0.19 U	1.1	0.44	0.55
RD-15	SMRD-15-GW082610	Pb-212	Total	1.8	NA	1	NA
RD-15	SMRD-15-GW082610	Pb-214	Filtered	2.4	3.2	1.2	1.5
RD-15	SMRD-15-GW082610	Pb-214	Suspended	-0.9 U	1.5	1.1	0.7
RD-15	SMRD-15-GW082610	Pb-214	Total	1.5	NA	1.6	NA
RD-15	SMRD-15-GW082610	Sb-125	Filtered	-1.5 U	15	4.3	7
RD-15	SMRD-15-GW082610	Sb-125	Suspended	1.9 U	6	1.8	2.9
RD-15	SMRD-15-GW082610	Sb-125	Total	0.4 SK	NA	4.6	NA
RD-15	SMRD-15-GW082610	Sn-126	Filtered	0.47 U	1.5	0.45	0.7
RD-15	SMRD-15-GW082610	Sn-126	Suspended	0.56	0.69	0.22	0.32
RD-15	SMRD-15-GW082610	Sn-126	Total	1.03	NA	0.5	NA
RD-15	SMRD-15-GW082610	Sr-90	Filtered	0.055 U	0.14	0.044	0.082
RD-15	SMRD-15-GW082610	Sr-90	Suspended	0.029 U	0.099	0.029	0.056
RD-15	SMRD-15-GW082610	Sr-90	Total	0.084	NA	0.053	NA
RD-15	SMRD-15-GW082610	Te-125m	Filtered	-0.34 U	3.4	0.99	1.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW082610	Te-125m	Suspended	0.44 U	1.4	0.41	0.67
RD-15	SMRD-15-GW082610	Te-125m	Total	0.09 SK	NA	1.1	NA
RD-15	SMRD-15-GW082610	Th-231	Filtered	0.22	0.032	0.034	0.011
RD-15	SMRD-15-GW082610	Th-231	Suspended	0.0025 U	0.0067	0.0025	0.0057
RD-15	SMRD-15-GW082610	Th-231	Total	0.223	NA	0.034	NA
RD-15	SMRD-15-GW082610	Th-234	Filtered	5.8 U	23	7.9	11
RD-15	SMRD-15-GW082610	Th-234	Suspended	4.3	7.4	2.6	3.6
RD-15	SMRD-15-GW082610	Th-234	Total	10.2	NA	8.3	NA
RD-15	SMRD-15-GW082610	Tl-208	Filtered	0.14 U	2.2	0.61	1.1
RD-15	SMRD-15-GW082610	Tl-208	Suspended	0.11 U	0.82	0.23	0.39
RD-15	SMRD-15-GW082610	Tl-208	Total	0.26	NA	0.65	NA
RD-15	SMRD-15-GW082610	Tm-171	Filtered	80 U	380	110	180
RD-15	SMRD-15-GW082610	Tm-171	Suspended	-103 L U	130	39	62
RD-15	SMRD-15-GW082610	Tm-171	Total	-30	NA	120	NA
RD-15	SMRD-15-GW082610	U-233/234	Filtered	5.51 K	0.03	0.27	0.009
RD-15	SMRD-15-GW082610	U-233/234	Suspended	0.048	0.015	0.01	0.005
RD-15	SMRD-15-GW082610	U-233/234	Total	5.56	NA	0.27	NA
RD-15	SMRD-15-GW082610	U-235/236	Filtered	0.22	0.032	0.034	0.011
RD-15	SMRD-15-GW082610	U-235/236	Suspended	0.0025 U	0.0067	0.0025	0.0057
RD-15	SMRD-15-GW082610	U-235/236	Total	0.223	NA	0.034	NA
RD-15	SMRD-15-GW082610	U-238	Filtered	5.15	0.03	0.26	0.01
RD-15	SMRD-15-GW082610	U-238	Suspended	0.0317	0.015	0.0085	0.0046
RD-15	SMRD-15-GW082610	U-238	Total	5.19	NA	0.26	NA
RD-16	SMRD-16-GW090110	Ac-227	Filtered	-0.8 U	9.1	2.7	4.4
RD-16	SMRD-16-GW090110	Ac-227	Suspended	-1.3 U	4	1.2	1.9
RD-16	SMRD-16-GW090110	Ac-227	Total	-2.1	NA	3	NA
RD-16	SMRD-16-GW090110	Ac-228	Filtered	3.8	4.7	1.5	2.1
RD-16	SMRD-16-GW090110	Ac-228	Suspended	0.45 U B	2.5	0.73	1.2
RD-16	SMRD-16-GW090110	Ac-228	Total	4.3	NA	1.7	NA
RD-16	SMRD-16-GW090110	Ag-108	Filtered	-0.0003 U R	0.096	0.027	0.045
RD-16	SMRD-16-GW090110	Ag-108	Suspended	0.002 U R	0.056	0.016	0.027
RD-16	SMRD-16-GW090110	Ag-108	Total	0.001 R	NA	0.032	NA
RD-16	SMRD-16-GW090110	Ag-108m	Filtered	-0.003 U R	1	0.29	0.48
RD-16	SMRD-16-GW090110	Ag-108m	Suspended	0.02 U R	0.61	0.18	0.29
RD-16	SMRD-16-GW090110	Ag-108m	Total	0.02 R	NA	0.34	NA
RD-16	SMRD-16-GW090110	Ba-133	Filtered	-0.6 U R	12	3.4	5.6
RD-16	SMRD-16-GW090110	Ba-133	Suspended	-0.3 U R	6	1.8	2.9
RD-16	SMRD-16-GW090110	Ba-133	Total	-1 R	NA	3.9	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW090110	Ba-137m	Filtered	0.13 U	1.3	0.37	0.6
RD-16	SMRD-16-GW090110	Ba-137m	Suspended	0.06 U	0.74	0.2	0.35
RD-16	SMRD-16-GW090110	Ba-137m	Total	0.19	NA	0.42	NA
RD-16	SMRD-16-GW090110	Bi-212	Filtered	-0.9 U	13	3.7	6
RD-16	SMRD-16-GW090110	Bi-212	Suspended	0.06 U	6.1	1.7	2.9
RD-16	SMRD-16-GW090110	Bi-212	Total	-0.9	NA	4.1	NA
RD-16	SMRD-16-GW090110	Bi-214	Filtered	-1.1 U	3.4	2	1.6
RD-16	SMRD-16-GW090110	Bi-214	Suspended	0.34 U	1.2	0.37	0.55
RD-16	SMRD-16-GW090110	Bi-214	Total	-0.7	NA	2	NA
RD-16	SMRD-16-GW090110	Cd-113m	Filtered	3300 U	14000	4100	6600
RD-16	SMRD-16-GW090110	Cd-113m	Suspended	2100 U	6400	1900	3100
RD-16	SMRD-16-GW090110	Cd-113m	Total	5400	NA	4500	NA
RD-16	SMRD-16-GW090110	Cf-249	Filtered	-1.7 U R	6.7	2	3.2
RD-16	SMRD-16-GW090110	Cf-249	Suspended	0 U R	3.1	0.91	1.5
RD-16	SMRD-16-GW090110	Cf-249	Total	-1.7 R	NA	2.2	NA
RD-16	SMRD-16-GW090110	Co-60	Filtered	0.22 U	1.6	0.45	0.72
RD-16	SMRD-16-GW090110	Co-60	Suspended	0.2 U	0.81	0.23	0.37
RD-16	SMRD-16-GW090110	Co-60	Total	0.42	NA	0.51	NA
RD-16	SMRD-16-GW090110	Cs-134	Filtered	0.03 U	1.7	0.49	0.81
RD-16	SMRD-16-GW090110	Cs-134	Suspended	0.05 U	0.69	0.2	0.33
RD-16	SMRD-16-GW090110	Cs-134	Total	0.08 SK	NA	0.53	NA
RD-16	SMRD-16-GW090110	Cs-137	Filtered	0.13 U	1.4	0.39	0.63
RD-16	SMRD-16-GW090110	Cs-137	Suspended	0.06 U	0.79	0.21	0.37
RD-16	SMRD-16-GW090110	Cs-137	Total	0.2	NA	0.44	NA
RD-16	SMRD-16-GW090110	Eu-152	Filtered	0.66 U	2.9	0.85	1.4
RD-16	SMRD-16-GW090110	Eu-152	Suspended	-0.35 U	1.8	0.54	0.87
RD-16	SMRD-16-GW090110	Eu-152	Total	0.3	NA	1	NA
RD-16	SMRD-16-GW090110	Eu-154	Filtered	1.1 U	9.7	2.7	4.4
RD-16	SMRD-16-GW090110	Eu-154	Suspended	-1.8 U	5.5	1.6	2.5
RD-16	SMRD-16-GW090110	Eu-154	Total	-0.6	NA	3.2	NA
RD-16	SMRD-16-GW090110	Eu-155	Filtered	1.37 U	2.9	0.87	1.4
RD-16	SMRD-16-GW090110	Eu-155	Suspended	0.41 U	1.1	0.34	0.55
RD-16	SMRD-16-GW090110	Eu-155	Total	1.78 SK	NA	0.94	NA
RD-16	SMRD-16-GW090110	gross_alpha	Filtered	4.29	0.48	0.42	0.26
RD-16	SMRD-16-GW090110	gross_alpha	Suspended	0.08 U	0.57	0.15	0.31
RD-16	SMRD-16-GW090110	gross_alpha	Total	4.36	NA	0.45	NA
RD-16	SMRD-16-GW090110	gross_beta	Filtered	5.67	2.4	0.96	1.4
RD-16	SMRD-16-GW090110	gross_beta	Suspended	-0.3 U	0.81	0.22	0.49

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW090110	gross_beta	Total	5.37	NA	0.99	NA
RD-16	SMRD-16-GW090110	H-3	Filtered	41 U	140	41	67
RD-16	SMRD-16-GW090110	H-3	Suspended	-12.6 L U	25	5.8	11
RD-16	SMRD-16-GW090110	H-3	Total	28 R	NA	42	NA
RD-16	SMRD-16-GW090110	Ho-166m	Filtered	-0.42 U	2.3	0.68	1.1
RD-16	SMRD-16-GW090110	Ho-166m	Suspended	0.004 U	0.95	0.27	0.44
RD-16	SMRD-16-GW090110	Ho-166m	Total	-0.41 SK	NA	0.73	NA
RD-16	SMRD-16-GW090110	K-40	Filtered	27.7	8.9	5.5	3.7
RD-16	SMRD-16-GW090110	K-40	Suspended	1.8 U	8.4	2.2	3.9
RD-16	SMRD-16-GW090110	K-40	Total	29.5	NA	5.9	NA
RD-16	SMRD-16-GW090110	Na-22	Filtered	0.23 U	1.7	0.49	0.78
RD-16	SMRD-16-GW090110	Na-22	Suspended	0 U	0.68	0.18	0.3
RD-16	SMRD-16-GW090110	Na-22	Total	0.23	NA	0.52	NA
RD-16	SMRD-16-GW090110	Nb-94	Filtered	0.47 U	1.3	0.38	0.6
RD-16	SMRD-16-GW090110	Nb-94	Suspended	-0.13 U	0.58	0.17	0.27
RD-16	SMRD-16-GW090110	Nb-94	Total	0.33	NA	0.42	NA
RD-16	SMRD-16-GW090110	Np-236	Filtered	0.01 U	2.5	0.73	1.2
RD-16	SMRD-16-GW090110	Np-236	Suspended	0.19 U	1	0.31	0.5
RD-16	SMRD-16-GW090110	Np-236	Total	0.2 SK	NA	0.79	NA
RD-16	SMRD-16-GW090110	Np-239	Filtered	-1.2 U	7.8	2.3	3.8
RD-16	SMRD-16-GW090110	Np-239	Suspended	0.2 U	3.5	1	1.7
RD-16	SMRD-16-GW090110	Np-239	Total	-1	NA	2.5	NA
RD-16	SMRD-16-GW090110	Pa-231	Filtered	3 U	56	16	27
RD-16	SMRD-16-GW090110	Pa-231	Suspended	2.4 U	23	6.8	11
RD-16	SMRD-16-GW090110	Pa-231	Total	6	NA	18	NA
RD-16	SMRD-16-GW090110	Pb-212	Filtered	-0.25 U	2.3	0.81	1.1
RD-16	SMRD-16-GW090110	Pb-212	Suspended	-0.02 U	1.1	0.37	0.52
RD-16	SMRD-16-GW090110	Pb-212	Total	-0.26	NA	0.89	NA
RD-16	SMRD-16-GW090110	Pb-214	Filtered	2.88	2.4	0.92	1.1
RD-16	SMRD-16-GW090110	Pb-214	Suspended	-1.3 U	1.5	2.1	0.7
RD-16	SMRD-16-GW090110	Pb-214	Total	1.6	NA	2.3	NA
RD-16	SMRD-16-GW090110	Sb-125	Filtered	5.4 U	13	3.9	6.3
RD-16	SMRD-16-GW090110	Sb-125	Suspended	1.5 U	6	1.8	2.9
RD-16	SMRD-16-GW090110	Sb-125	Total	6.9 SK	NA	4.3	NA
RD-16	SMRD-16-GW090110	Sn-126	Filtered	-0.004 U	1.7	0.48	0.79
RD-16	SMRD-16-GW090110	Sn-126	Suspended	0.32 U	0.71	0.21	0.33
RD-16	SMRD-16-GW090110	Sn-126	Total	0.31	NA	0.52	NA
RD-16	SMRD-16-GW090110	Sr-90	Filtered	0.012 U	0.17	0.051	0.099

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW090110	Sr-90	Suspended	-0.007 U	0.12	0.034	0.067
RD-16	SMRD-16-GW090110	Sr-90	Total	0.005	NA	0.061	NA
RD-16	SMRD-16-GW090110	Te-125m	Filtered	1.24 U	3	0.91	1.4
RD-16	SMRD-16-GW090110	Te-125m	Suspended	0.35 U	1.4	0.41	0.67
RD-16	SMRD-16-GW090110	Te-125m	Total	1.59 SK	NA	0.997	NA
RD-16	SMRD-16-GW090110	Th-231	Filtered	0.035	0.012	0.013	0.007
RD-16	SMRD-16-GW090110	Th-231	Suspended	0.0075	0.0068	0.0044	0.0058
RD-16	SMRD-16-GW090110	Th-231	Total	0.043	NA	0.013	NA
RD-16	SMRD-16-GW090110	Th-234	Filtered	10.4 U	22	7.6	11
RD-16	SMRD-16-GW090110	Th-234	Suspended	0.7 U	6.9	2.1	3.4
RD-16	SMRD-16-GW090110	Th-234	Total	11	NA	7.9	NA
RD-16	SMRD-16-GW090110	Tl-208	Filtered	-0.13 U	1.9	0.63	0.92
RD-16	SMRD-16-GW090110	Tl-208	Suspended	0.22 U	0.82	0.23	0.39
RD-16	SMRD-16-GW090110	Tl-208	Total	0.08	NA	0.67	NA
RD-16	SMRD-16-GW090110	Tm-171	Filtered	30 U	370	110	180
RD-16	SMRD-16-GW090110	Tm-171	Suspended	-124 R U	130	40	63
RD-16	SMRD-16-GW090110	Tm-171	Total	-90	NA	120	NA
RD-16	SMRD-16-GW090110	U-233/234	Filtered	0.96 K	0.032	0.071	0.013
RD-16	SMRD-16-GW090110	U-233/234	Suspended	0.0101	0.015	0.0053	0.0047
RD-16	SMRD-16-GW090110	U-233/234	Total	0.97	NA	0.072	NA
RD-16	SMRD-16-GW090110	U-235/236	Filtered	0.035	0.012	0.013	0.007
RD-16	SMRD-16-GW090110	U-235/236	Suspended	0.0075	0.0068	0.0044	0.0058
RD-16	SMRD-16-GW090110	U-235/236	Total	0.043	NA	0.013	NA
RD-16	SMRD-16-GW090110	U-238	Filtered	0.761	0.024	0.061	0.008
RD-16	SMRD-16-GW090110	U-238	Suspended	0.008	0.019	0.0057	0.0066
RD-16	SMRD-16-GW090110	U-238	Total	0.769	NA	0.061	NA
RD-17	SMRD-17-GW082510	Ac-227	Filtered	-0.008 U	9.9	2.9	4.8
RD-17	SMRD-17-GW082510	Ac-227	Suspended	-0.47 U	2.4	0.7	1.1
RD-17	SMRD-17-GW082510	Ac-227	Total	-0.5	NA	3	NA
RD-17	SMRD-17-GW082510	Ac-228	Filtered	6.1	2.9	1.4	1.3
RD-17	SMRD-17-GW082510	Ac-228	Suspended	0.49 U	1.6	0.48	0.75
RD-17	SMRD-17-GW082510	Ac-228	Total	6.6	NA	1.5	NA
RD-17	SMRD-17-GW082510	Ag-108	Filtered	0 U R	0.11	0.031	0.051
RD-17	SMRD-17-GW082510	Ag-108	Suspended	-0.004 U R	0.037	0.011	0.018
RD-17	SMRD-17-GW082510	Ag-108	Total	-0.04 R	NA	0.34	NA
RD-17	SMRD-17-GW082510	Ag-108m	Filtered	0 U R	1.2	0.34	0.55
RD-17	SMRD-17-GW082510	Ag-108m	Suspended	-0.04 U R	0.4	0.12	0.19
RD-17	SMRD-17-GW082510	Ag-108m	Total	-0.04 R	NA	0.35	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW082510	Am-241	Filtered	-0.012 U	0.084	0.019	0.041
RD-17	SMRD-17-GW082510	Am-241	Suspended	0.0088	0.028	0.008	0.0078
RD-17	SMRD-17-GW082510	Am-241	Total	-0.003	NA	0.021	NA
RD-17	SMRD-17-GW082510	Ba-133	Filtered	4.9 U R	15	4.4	7.1
RD-17	SMRD-17-GW082510	Ba-133	Suspended	-0.4 U R	4.1	1.2	1.9
RD-17	SMRD-17-GW082510	Ba-133	Total	4.5 R	NA	4.6	NA
RD-17	SMRD-17-GW082510	Ba-137m	Filtered	0.35 U	1.3	0.39	0.61
RD-17	SMRD-17-GW082510	Ba-137m	Suspended	0.04 U	0.44	0.12	0.2
RD-17	SMRD-17-GW082510	Ba-137m	Total	0.39	NA	0.4	NA
RD-17	SMRD-17-GW082510	Bi-212	Filtered	-0.4 U	11	3.2	5.2
RD-17	SMRD-17-GW082510	Bi-212	Suspended	0.96 U	3.2	0.95	1.5
RD-17	SMRD-17-GW082510	Bi-212	Total	0.6	NA	3.3	NA
RD-17	SMRD-17-GW082510	Bi-214	Filtered	4.2	3.2	1.2	1.5
RD-17	SMRD-17-GW082510	Bi-214	Suspended	0.42 U	1.1	0.35	0.51
RD-17	SMRD-17-GW082510	Bi-214	Total	4.6	NA	1.3	NA
RD-17	SMRD-17-GW082510	C-14	Filtered	0.74 U	2.3	0.69	1.1
RD-17	SMRD-17-GW082510	C-14	Suspended	0.54 U R	2.1	0.65	1
RD-17	SMRD-17-GW082510	C-14	Total	1.28 R	NA	0.95	NA
RD-17	SMRD-17-GW082510	Cd-113m	Filtered	8000 U	18000	5400	8500
RD-17	SMRD-17-GW082510	Cd-113m	Suspended	-800 U	4500	1300	2200
RD-17	SMRD-17-GW082510	Cd-113m	Total	7200	NA	5500	NA
RD-17	SMRD-17-GW082510	Cf-249	Filtered	-1.6 U R	8.4	2.5	4
RD-17	SMRD-17-GW082510	Cf-249	Suspended	-0.09 U R	1.9	0.56	0.92
RD-17	SMRD-17-GW082510	Cf-249	Total	-1.7 R	NA	2.6	NA
RD-17	SMRD-17-GW082510	Cm-243/244	Filtered	0.027 U	0.11	0.031	0.056
RD-17	SMRD-17-GW082510	Cm-243/244	Suspended	0.027	0.06	0.018	0.027
RD-17	SMRD-17-GW082510	Cm-243/244	Total	0.055	NA	0.036	NA
RD-17	SMRD-17-GW082510	Cm-245/246	Filtered	0.01 U	0.042	0.012	0.018
RD-17	SMRD-17-GW082510	Cm-245/246	Suspended	0.027	0.026	0.01	0.01
RD-17	SMRD-17-GW082510	Cm-245/246	Total	0.037	NA	0.016	NA
RD-17	SMRD-17-GW082510	Co-60	Filtered	-0.23 U	1.7	0.49	0.78
RD-17	SMRD-17-GW082510	Co-60	Suspended	0.12 U	0.57	0.16	0.26
RD-17	SMRD-17-GW082510	Co-60	Total	-0.12	NA	0.51	NA
RD-17	SMRD-17-GW082510	Cs-134	Filtered	-0.81 U	1.6	0.48	0.76
RD-17	SMRD-17-GW082510	Cs-134	Suspended	0.16 U	0.48	0.14	0.23
RD-17	SMRD-17-GW082510	Cs-134	Total	-0.65	NA	0.51	NA
RD-17	SMRD-17-GW082510	Cs-137	Filtered	0.37 U	1.4	0.41	0.65
RD-17	SMRD-17-GW082510	Cs-137	Suspended	0.04 U	0.46	0.13	0.21

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW082510	Cs-137	Total	0.41	NA	0.43	NA
RD-17	SMRD-17-GW082510	Eu-152	Filtered	-0.6 U	4.5	1.3	2.2
RD-17	SMRD-17-GW082510	Eu-152	Suspended	-0.14 U	1	0.3	0.49
RD-17	SMRD-17-GW082510	Eu-152	Total	-0.8	NA	1.4	NA
RD-17	SMRD-17-GW082510	Eu-154	Filtered	2.4 U	11	3.2	5.1
RD-17	SMRD-17-GW082510	Eu-154	Suspended	-0.5 U	4.6	1.3	2.1
RD-17	SMRD-17-GW082510	Eu-154	Total	2	NA	3.5	NA
RD-17	SMRD-17-GW082510	Eu-155	Filtered	-0.7 U	4.7	1.4	2.3
RD-17	SMRD-17-GW082510	Eu-155	Suspended	0.006 U	0.6	0.17	0.29
RD-17	SMRD-17-GW082510	Eu-155	Total	-0.7	NA	1.4	NA
RD-17	SMRD-17-GW082510	gross_alpha	Filtered	4.96	0.39	0.5	0.2
RD-17	SMRD-17-GW082510	gross_alpha	Suspended	0.07 U	0.59	0.16	0.31
RD-17	SMRD-17-GW082510	gross_alpha	Total	4.65	NA	0.5	NA
RD-17	SMRD-17-GW082510	gross_beta	Filtered	7.3	3.1	1.2	1.9
RD-17	SMRD-17-GW082510	gross_beta	Suspended	0.15 U	0.7	0.21	0.41
RD-17	SMRD-17-GW082510	gross_beta	Total	7.5	NA	1.2	NA
RD-17	SMRD-17-GW082510	H-3	Filtered	-35 U	140	40	68
RD-17	SMRD-17-GW082510	H-3	Suspended	10.8 R	20	6.3	9.6
RD-17	SMRD-17-GW082510	H-3	Total	-25 R	NA	41	NA
RD-17	SMRD-17-GW082510	Ho-166m	Filtered	-0.33 U	2.5	0.73	1.2
RD-17	SMRD-17-GW082510	Ho-166m	Suspended	0.14 U	0.69	0.2	0.32
RD-17	SMRD-17-GW082510	Ho-166m	Total	-0.19	NA	0.75	NA
RD-17	SMRD-17-GW082510	I-129	Filtered	0.15 U	0.51	0.15	0.25
RD-17	SMRD-17-GW082510	I-129	Suspended	0.24 U	0.51	0.16	0.25
RD-17	SMRD-17-GW082510	I-129	Total	0.39	NA	0.22	NA
RD-17	SMRD-17-GW082510	K-40	Filtered	13.7	17	4.2	7.7
RD-17	SMRD-17-GW082510	K-40	Suspended	-10 U	10	19	5
RD-17	SMRD-17-GW082510	K-40	Total	3	NA	20	NA
RD-17	SMRD-17-GW082510	Na-22	Filtered	-0.07 U	1.5	0.41	0.66
RD-17	SMRD-17-GW082510	Na-22	Suspended	-0.15 U	0.71	0.21	0.33
RD-17	SMRD-17-GW082510	Na-22	Total	-0.21	NA	0.45	NA
RD-17	SMRD-17-GW082510	Nb-94	Filtered	0.36 U	1.2	0.35	0.55
RD-17	SMRD-17-GW082510	Nb-94	Suspended	0 U	0.51	0.15	0.24
RD-17	SMRD-17-GW082510	Nb-94	Total	0.36	NA	0.38	NA
RD-17	SMRD-17-GW082510	Np-236	Filtered	-0.0009 U	3.6	1	1.7
RD-17	SMRD-17-GW082510	Np-236	Suspended	-0.12 U	0.57	0.17	0.27
RD-17	SMRD-17-GW082510	Np-236	Total	-0.1	NA	1.1	NA
RD-17	SMRD-17-GW082510	Np-237	Suspended	0 U	0.0091	0.0017	0.0055

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW082510	Np-237	Total	-0.0042	NA	0.0034	NA
RD-17	SMRD-17-GW082510	Np-239	Filtered	0.08 U	10	3	5
RD-17	SMRD-17-GW082510	Np-239	Suspended	0.87 U	2.3	0.69	1.1
RD-17	SMRD-17-GW082510	Np-239	Total	0.9	NA	3.1	NA
RD-17	SMRD-17-GW082510	Pa-231	Filtered	8 U	67	20	32
RD-17	SMRD-17-GW082510	Pa-231	Suspended	-5.3 U	19	5.6	9
RD-17	SMRD-17-GW082510	Pa-231	Total	3	NA	21	NA
RD-17	SMRD-17-GW082510	Pb-212	Filtered	0.58 U	2.2	0.67	1.1
RD-17	SMRD-17-GW082510	Pb-212	Suspended	0.23 U	0.67	0.2	0.32
RD-17	SMRD-17-GW082510	Pb-212	Total	0.82	NA	0.7	NA
RD-17	SMRD-17-GW082510	Pb-214	Filtered	4.6	3.1	1	1.5
RD-17	SMRD-17-GW082510	Pb-214	Suspended	0.8	0.89	0.28	0.42
RD-17	SMRD-17-GW082510	Pb-214	Total	5.4	NA	1.1	NA
RD-17	SMRD-17-GW082510	Pu-238	Filtered	0.054	0.064	0.021	0.03
RD-17	SMRD-17-GW082510	Pu-238	Suspended	0.044	0.051	0.018	0.023
RD-17	SMRD-17-GW082510	Pu-238	Total	0.098	NA	0.028	NA
RD-17	SMRD-17-GW082510	Pu-239/240	Filtered	-0.0079 U	0.038	0.0072	0.016
RD-17	SMRD-17-GW082510	Pu-239/240	Suspended	-0.0012 U	0.039	0.0078	0.016
RD-17	SMRD-17-GW082510	Pu-239/240	Total	-0.009	NA	0.011	NA
RD-17	SMRD-17-GW082510	Pu-242	Filtered	-0.0087 U	0.042	0.0084	0.018
RD-17	SMRD-17-GW082510	Pu-242	Suspended	0.0058 U	0.028	0.007	0.0094
RD-17	SMRD-17-GW082510	Pu-242	Total	-0.003	NA	0.011	NA
RD-17	SMRD-17-GW082510	Ra-226	Filtered	1.21	0.14	0.13	0.07
RD-17	SMRD-17-GW082510	Ra-226	Suspended	0.054 U	0.14	0.042	0.077
RD-17	SMRD-17-GW082510	Ra-226	Total	1.27	NA	0.14	NA
RD-17	SMRD-17-GW082510	Sb-125	Filtered	0 U	15	4.4	7.3
RD-17	SMRD-17-GW082510	Sb-125	Suspended	0.6 U	3.5	1	1.7
RD-17	SMRD-17-GW082510	Sb-125	Total	0.6	NA	4.5	NA
RD-17	SMRD-17-GW082510	Sn-126	Filtered	0.25 U	1.6	0.48	0.78
RD-17	SMRD-17-GW082510	Sn-126	Suspended	0.08 U	0.51	0.15	0.24
RD-17	SMRD-17-GW082510	Sn-126	Total	0.32	NA	0.5	NA
RD-17	SMRD-17-GW082510	Sr-90	Filtered	-0.011 U	0.3	0.085	0.18
RD-17	SMRD-17-GW082510	Sr-90	Suspended	0.006 U	0.17	0.05	0.1
RD-17	SMRD-17-GW082510	Sr-90	Total	-0.004	NA	0.098	NA
RD-17	SMRD-17-GW082510	Tc-99	Filtered	-0.02 U	1.7	0.52	0.85
RD-17	SMRD-17-GW082510	Tc-99	Suspended	-0.34 U	1.4	0.41	0.69
RD-17	SMRD-17-GW082510	Tc-99	Total	-0.36	NA	0.66	NA
RD-17	SMRD-17-GW082510	Te-125m	Filtered	0 U	3.5	1	1.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW082510	Te-125m	Suspended	0.14 U	0.8	0.24	0.39
RD-17	SMRD-17-GW082510	Te-125m	Total	0.6	NA	4.3	NA
RD-17	SMRD-17-GW082510	Th-231	Filtered	0.059	0.058	0.024	0.023
RD-17	SMRD-17-GW082510	Th-231	Suspended	0.0037 U	0.03	0.0069	0.007
RD-17	SMRD-17-GW082510	Th-231	Total	0.063	NA	0.025	NA
RD-17	SMRD-17-GW082510	Th-234	Filtered	20 U	46	16	22
RD-17	SMRD-17-GW082510	Th-234	Suspended	-1 U	5.6	1.9	2.7
RD-17	SMRD-17-GW082510	Th-234	Total	19	NA	17	NA
RD-17	SMRD-17-GW082510	Tl-208	Filtered	-2.2 U	2.2	3.2	1.1
RD-17	SMRD-17-GW082510	Tl-208	Suspended	-0.18 U	0.6	0.3	0.29
RD-17	SMRD-17-GW082510	Tl-208	Total	-2.4	NA	3.2	NA
RD-17	SMRD-17-GW082510	Tm-171	Filtered	140 U	460	140	220
RD-17	SMRD-17-GW082510	Tm-171	Suspended	8 U	72	21	35
RD-17	SMRD-17-GW082510	Tm-171	Total	150	NA	140	NA
RD-17	SMRD-17-GW082510	U-233/234	Filtered	2.09	0.08	0.14	0.04
RD-17	SMRD-17-GW082510	U-233/234	Suspended	0.014 U	0.045	0.016	0.016
RD-17	SMRD-17-GW082510	U-233/234	Total	2.1	NA	0.14	NA
RD-17	SMRD-17-GW082510	U-235/236	Filtered	0.059	0.058	0.024	0.023
RD-17	SMRD-17-GW082510	U-235/236	Suspended	0.0037 U	0.03	0.0069	0.007
RD-17	SMRD-17-GW082510	U-235/236	Total	0.063	NA	0.025	NA
RD-17	SMRD-17-GW082510	U-238	Filtered	1.93	0.06	0.13	0.02
RD-17	SMRD-17-GW082510	U-238	Suspended	0.011	0.032	0.012	0.01
RD-17	SMRD-17-GW082510	U-238	Total	1.94	NA	0.13	NA
RD-18	SMRD-18-GW081910	Ac-227	Filtered	5.3	4.3	1.4	2
RD-18	SMRD-18-GW081910	Ac-227	Suspended	-3.2 L U	4.6	1.4	2.3
RD-18	SMRD-18-GW081910	Ac-227	Total	2.2	NA	2	NA
RD-18	SMRD-18-GW081910	Ac-228	Filtered	3.1	4	1.3	1.9
RD-18	SMRD-18-GW081910	Ac-228	Suspended	1 U	2.5	0.74	1.2
RD-18	SMRD-18-GW081910	Ac-228	Total	4.1	NA	1.5	NA
RD-18	SMRD-18-GW081910	Ag-108	Filtered	-0.01 U R	0.091	0.027	0.044
RD-18	SMRD-18-GW081910	Ag-108	Suspended	-0.004 U R	0.053	0.016	0.026
RD-18	SMRD-18-GW081910	Ag-108	Total	-0.014 R	NA	0.031	NA
RD-18	SMRD-18-GW081910	Ag-108m	Filtered	-0.11 U R	0.98	0.29	0.47
RD-18	SMRD-18-GW081910	Ag-108m	Suspended	-0.04 U R	0.57	0.17	0.28
RD-18	SMRD-18-GW081910	Ag-108m	Total	-0.15 R	NA	0.33	NA
RD-18	SMRD-18-GW081910	Ba-133	Filtered	-3.1 U R	12	3.6	5.9
RD-18	SMRD-18-GW081910	Ba-133	Suspended	-2.1 U R	6.1	1.8	3
RD-18	SMRD-18-GW081910	Ba-133	Total	-5.2 R	NA	4.1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW081910	Ba-137m	Filtered	0.36 U	1	0.31	0.5
RD-18	SMRD-18-GW081910	Ba-137m	Suspended	0.16 U	0.65	0.19	0.31
RD-18	SMRD-18-GW081910	Ba-137m	Total	0.52	NA	0.37	NA
RD-18	SMRD-18-GW081910	Bi-212	Filtered	5.9	8.6	3.2	4
RD-18	SMRD-18-GW081910	Bi-212	Suspended	0.04 U	6.4	1.8	3
RD-18	SMRD-18-GW081910	Bi-212	Total	5.9	NA	3.6	NA
RD-18	SMRD-18-GW081910	Bi-214	Filtered	1.05 U	2.8	0.97	1.4
RD-18	SMRD-18-GW081910	Bi-214	Suspended	2.6	1.7	0.75	0.82
RD-18	SMRD-18-GW081910	Bi-214	Total	3.6	NA	1.2	NA
RD-18	SMRD-18-GW081910	Cd-113m	Filtered	2200 U	14000	4300	7000
RD-18	SMRD-18-GW081910	Cd-113m	Suspended	-1200 U	7300	2200	3500
RD-18	SMRD-18-GW081910	Cd-113m	Total	1000	NA	4800	NA
RD-18	SMRD-18-GW081910	Cf-249	Filtered	-0.2 U R	5.5	1.6	2.6
RD-18	SMRD-18-GW081910	Cf-249	Suspended	-0.13 U R	2.8	0.82	1.3
RD-18	SMRD-18-GW081910	Cf-249	Total	-0.3 R	NA	1.8	NA
RD-18	SMRD-18-GW081910	Co-60	Filtered	-0.01 U	1.2	0.35	0.57
RD-18	SMRD-18-GW081910	Co-60	Suspended	0.004 U	0.78	0.22	0.36
RD-18	SMRD-18-GW081910	Co-60	Total	-0.009	NA	0.41	NA
RD-18	SMRD-18-GW081910	Cs-134	Filtered	-0.33 U	1.5	0.45	0.73
RD-18	SMRD-18-GW081910	Cs-134	Suspended	0.004 U	0.92	0.27	0.44
RD-18	SMRD-18-GW081910	Cs-134	Total	-0.33	NA	0.52	NA
RD-18	SMRD-18-GW081910	Cs-137	Filtered	0.38 U	1.1	0.33	0.52
RD-18	SMRD-18-GW081910	Cs-137	Suspended	0.17 U	0.69	0.2	0.33
RD-18	SMRD-18-GW081910	Cs-137	Total	0.55	NA	0.39	NA
RD-18	SMRD-18-GW081910	Eu-152	Filtered	-0.5 U	3.4	1	1.6
RD-18	SMRD-18-GW081910	Eu-152	Suspended	0.34 U	1.8	0.53	0.85
RD-18	SMRD-18-GW081910	Eu-152	Total	-0.1	NA	1.1	NA
RD-18	SMRD-18-GW081910	Eu-154	Filtered	-1 U	9.5	2.7	4.5
RD-18	SMRD-18-GW081910	Eu-154	Suspended	2.1 U	5.6	1.7	2.6
RD-18	SMRD-18-GW081910	Eu-154	Total	1.2	NA	3.2	NA
RD-18	SMRD-18-GW081910	Eu-155	Filtered	0.6 U	3.4	1	1.7
RD-18	SMRD-18-GW081910	Eu-155	Suspended	0.38 U	1	0.31	0.49
RD-18	SMRD-18-GW081910	Eu-155	Total	1	NA	1.1	NA
RD-18	SMRD-18-GW081910	gross_alpha	Filtered	5.84	0.41	0.49	0.21
RD-18	SMRD-18-GW081910	gross_alpha	Suspended	9.67	0.9	0.92	0.47
RD-18	SMRD-18-GW081910	gross_alpha	Total	15.5	NA	1	NA
RD-18	SMRD-18-GW081910	gross_beta	Filtered	5.19	1.1	0.56	0.66
RD-18	SMRD-18-GW081910	gross_beta	Suspended	0.62	0.83	0.27	0.49

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW081910	gross_beta	Total	5.81	NA	0.62	NA
RD-18	SMRD-18-GW081910	H-3	Filtered	-4 U	140	41	67
RD-18	SMRD-18-GW081910	H-3	Suspended	7.3	12	3.8	5
RD-18	SMRD-18-GW081910	H-3	Total	3	NA	41	NA
RD-18	SMRD-18-GW081910	Ho-166m	Filtered	-0.52 U	1.8	0.55	0.88
RD-18	SMRD-18-GW081910	Ho-166m	Suspended	-0.37 U	1.2	0.36	0.57
RD-18	SMRD-18-GW081910	Ho-166m	Total	-0.89	NA	0.65	NA
RD-18	SMRD-18-GW081910	K-40	Filtered	2.4 U	23	5.9	11
RD-18	SMRD-18-GW081910	K-40	Suspended	2.6 U	9.6	3.1	4.5
RD-18	SMRD-18-GW081910	K-40	Total	5	NA	6.7	NA
RD-18	SMRD-18-GW081910	Na-22	Filtered	-0.13 U	1.2	0.34	0.56
RD-18	SMRD-18-GW081910	Na-22	Suspended	0.33	0.71	0.21	0.33
RD-18	SMRD-18-GW081910	Na-22	Total	0.2	NA	0.41	NA
RD-18	SMRD-18-GW081910	Nb-94	Filtered	0.29 U	1	0.3	0.48
RD-18	SMRD-18-GW081910	Nb-94	Suspended	0.1 U	0.68	0.2	0.32
RD-18	SMRD-18-GW081910	Nb-94	Total	0.39	NA	0.36	NA
RD-18	SMRD-18-GW081910	Np-236	Filtered	-1.11 U	2.9	0.88	1.4
RD-18	SMRD-18-GW081910	Np-236	Suspended	0.39 U	1	0.3	0.49
RD-18	SMRD-18-GW081910	Np-236	Total	-0.72	NA	0.93	NA
RD-18	SMRD-18-GW081910	Np-239	Filtered	1.3 U	7.4	2.2	3.6
RD-18	SMRD-18-GW081910	Np-239	Suspended	0.1 U	3.6	1	1.7
RD-18	SMRD-18-GW081910	Np-239	Total	1.4	NA	2.4	NA
RD-18	SMRD-18-GW081910	Pa-231	Filtered	-7 U	52	15	25
RD-18	SMRD-18-GW081910	Pa-231	Suspended	-2 U	29	8.6	14
RD-18	SMRD-18-GW081910	Pa-231	Total	-9	NA	18	NA
RD-18	SMRD-18-GW081910	Pb-212	Filtered	1.2 U	2.9	0.997	1.4
RD-18	SMRD-18-GW081910	Pb-212	Suspended	0.65	1.3	0.47	0.63
RD-18	SMRD-18-GW081910	Pb-212	Total	1.9	NA	1.1	NA
RD-18	SMRD-18-GW081910	Pb-214	Filtered	2.65	2.5	0.89	1.2
RD-18	SMRD-18-GW081910	Pb-214	Suspended	1.57	1.4	0.53	0.68
RD-18	SMRD-18-GW081910	Pb-214	Total	4.2	NA	1	NA
RD-18	SMRD-18-GW081910	Sb-125	Filtered	-0.2 U	12	3.6	5.9
RD-18	SMRD-18-GW081910	Sb-125	Suspended	-0.5 U	5.6	1.7	2.7
RD-18	SMRD-18-GW081910	Sb-125	Total	-0.7	NA	4	NA
RD-18	SMRD-18-GW081910	Sn-126	Filtered	0.5	1	0.31	0.49
RD-18	SMRD-18-GW081910	Sn-126	Suspended	0.002 U	0.56	0.16	0.26
RD-18	SMRD-18-GW081910	Sn-126	Total	0.5	NA	0.35	NA
RD-18	SMRD-18-GW081910	Sr-90	Suspended	-0.004 U	0.083	0.024	0.047

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW081910	Sr-90	Total	0.133	NA	0.06	NA
RD-18	SMRD-18-GW081910	Te-125m	Filtered	-0.06 U	2.8	0.84	1.4
RD-18	SMRD-18-GW081910	Te-125m	Suspended	-0.1 U	1.3	0.38	0.63
RD-18	SMRD-18-GW081910	Te-125m	Total	-0.16	NA	0.92	NA
RD-18	SMRD-18-GW081910	Th-231	Filtered	0.146	0.036	0.031	0.012
RD-18	SMRD-18-GW081910	Th-231	Suspended	0.0094	0.029	0.0085	0.0083
RD-18	SMRD-18-GW081910	Th-231	Total	0.156	NA	0.032	NA
RD-18	SMRD-18-GW081910	Th-234	Filtered	5.1 U	23	8	11
RD-18	SMRD-18-GW081910	Th-234	Suspended	0.5 U	7.8	2.8	3.8
RD-18	SMRD-18-GW081910	Th-234	Total	5.6	NA	8.4	NA
RD-18	SMRD-18-GW081910	Tl-208	Filtered	0.69 U	1.6	0.56	0.76
RD-18	SMRD-18-GW081910	Tl-208	Suspended	-0.15 U	0.97	0.37	0.47
RD-18	SMRD-18-GW081910	Tl-208	Total	0.53	NA	0.67	NA
RD-18	SMRD-18-GW081910	Tm-171	Filtered	8 U	400	120	190
RD-18	SMRD-18-GW081910	Tm-171	Suspended	57 U	130	38	61
RD-18	SMRD-18-GW081910	Tm-171	Total	70	NA	120	NA
RD-18	SMRD-18-GW081910	U-233/234	Filtered	3.39	0.05	0.19	0.02
RD-18	SMRD-18-GW081910	U-233/234	Suspended	0.015 U	0.042	0.014	0.018
RD-18	SMRD-18-GW081910	U-233/234	Total	3.41	NA	0.19	NA
RD-18	SMRD-18-GW081910	U-235/236	Filtered	0.146	0.036	0.031	0.012
RD-18	SMRD-18-GW081910	U-235/236	Suspended	0.0094	0.029	0.0085	0.0083
RD-18	SMRD-18-GW081910	U-235/236	Total	0.156	NA	0.032	NA
RD-18	SMRD-18-GW081910	U-238	Filtered	2.48	0.04	0.15	0.01
RD-18	SMRD-18-GW081910	U-238	Suspended	0.018	0.035	0.013	0.013
RD-18	SMRD-18-GW081910	U-238	Total	2.5	NA	0.15	NA
RD-19	SMRD-019-GW081910	Ac-227	Filtered	-4.8 U	12	3.5	5.7
RD-19	SMRD-019-GW081910	Ac-227	Suspended	0.05 U	5.4	1.6	2.7
RD-19	SMRD-019-GW081910	Ac-227	Total	-3.6	NA	3.7	NA
RD-19	SMRD-019-GW081910	Ac-228	Filtered	8	4.2	1.5	2
RD-19	SMRD-019-GW081910	Ac-228	Suspended	3.07	2	0.67	0.92
RD-19	SMRD-019-GW081910	Ac-228	Total	11.1	NA	1.6	NA
RD-19	SMRD-019-GW081910	Ag-108	Filtered	-0.006 U R	0.11	0.032	0.053
RD-19	SMRD-019-GW081910	Ag-108	Suspended	0 U R	0.057	0.017	0.028
RD-19	SMRD-019-GW081910	Ag-108	Total	0.07 R	NA	0.34	NA
RD-19	SMRD-019-GW081910	Ag-108m	Filtered	-0.06 U R	1.2	0.35	0.57
RD-19	SMRD-019-GW081910	Ag-108m	Suspended	0 U R	0.61	0.18	0.3
RD-19	SMRD-019-GW081910	Ag-108m	Total	0.08 R	NA	0.36	NA
RD-19	SMRD-019-GW081910	Am-241	Filtered	-0.02 U	0.097	0.022	0.048

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-019-GW081910	Am-241	Suspended	0.005 U	0.047	0.011	0.02
RD-19	SMRD-019-GW081910	Am-241	Total	-0.015	NA	0.024	NA
RD-19	SMRD-019-GW081910	Ba-133	Filtered	3.8 U R	14	4.3	7
RD-19	SMRD-019-GW081910	Ba-133	Suspended	0.08 U R	6	1.8	2.9
RD-19	SMRD-019-GW081910	Ba-133	Total	3.4 R	NA	4.9	NA
RD-19	SMRD-019-GW081910	Ba-137m	Filtered	0.56 U	1.3	0.39	0.61
RD-19	SMRD-019-GW081910	Ba-137m	Suspended	0.02 U	0.74	0.22	0.35
RD-19	SMRD-019-GW081910	Ba-137m	Total	0.58	NA	0.44	NA
RD-19	SMRD-019-GW081910	Bi-212	Filtered	14.7	7	3.5	3.2
RD-19	SMRD-019-GW081910	Bi-212	Suspended	3.3	5.6	1.7	2.7
RD-19	SMRD-019-GW081910	Bi-212	Total	18.7	NA	4	NA
RD-19	SMRD-019-GW081910	Bi-214	Filtered	2.8	3.6	1	1.7
RD-19	SMRD-019-GW081910	Bi-214	Suspended	0.53 U	1.7	0.61	0.82
RD-19	SMRD-019-GW081910	Bi-214	Total	3.4	NA	1.2	NA
RD-19	SMRD-019-GW081910	C-14	Filtered	1.18	2.2	0.69	1.1
RD-19	SMRD-019-GW081910	C-14	Suspended	1.59 R	2.2	0.68	1.1
RD-19	SMRD-019-GW081910	C-14	Total	2.76 R	NA	0.97	NA
RD-19	SMRD-019-GW081910	Cd-113m	Filtered	-4300 U	19000	5700	9300
RD-19	SMRD-019-GW081910	Cd-113m	Suspended	1500 U	6900	2000	3300
RD-19	SMRD-019-GW081910	Cd-113m	Total	-2700	NA	6100	NA
RD-19	SMRD-019-GW081910	Cf-249	Filtered	-0.9 U R	7.1	2.1	3.5
RD-19	SMRD-019-GW081910	Cf-249	Suspended	0.32 U R	2.9	0.86	1.4
RD-19	SMRD-019-GW081910	Cf-249	Total	-0.4 R	NA	2.2	NA
RD-19	SMRD-019-GW081910	Cm-243/244	Filtered	0.021 U	0.11	0.029	0.054
RD-19	SMRD-019-GW081910	Cm-243/244	Suspended	0.052	0.061	0.022	0.029
RD-19	SMRD-019-GW081910	Cm-243/244	Total	0.073	NA	0.037	NA
RD-19	SMRD-019-GW081910	Cm-245/246	Filtered	0.0067 U	0.022	0.0061	0.0076
RD-19	SMRD-019-GW081910	Cm-245/246	Suspended	0.0109 U	0.029	0.0084	0.012
RD-19	SMRD-019-GW081910	Cm-245/246	Total	0.018	NA	0.01	NA
RD-19	SMRD-019-GW081910	Co-60	Filtered	0.55 U	1.4	0.41	0.64
RD-19	SMRD-019-GW081910	Co-60	Suspended	0.1 U	0.65	0.19	0.3
RD-19	SMRD-019-GW081910	Co-60	Total	0.63	NA	0.45	NA
RD-19	SMRD-019-GW081910	Cs-134	Filtered	0.32 U	1.5	0.46	0.74
RD-19	SMRD-019-GW081910	Cs-134	Suspended	0.337 U	0.73	0.099	0.35
RD-19	SMRD-019-GW081910	Cs-134	Total	0.36	NA	0.5	NA
RD-19	SMRD-019-GW081910	Cs-137	Filtered	0.6 U	1.4	0.41	0.64
RD-19	SMRD-019-GW081910	Cs-137	Suspended	0.02 U	0.78	0.23	0.37
RD-19	SMRD-019-GW081910	Cs-137	Total	0.61	NA	0.47	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-019-GW081910	Eu-152	Filtered	1 U	4.1	1.2	2
RD-19	SMRD-019-GW081910	Eu-152	Suspended	0.02 U	1.7	0.5	0.83
RD-19	SMRD-019-GW081910	Eu-152	Total	1	NA	1.3	NA
RD-19	SMRD-019-GW081910	Eu-154	Filtered	-1.3 U	11	3.3	5.3
RD-19	SMRD-019-GW081910	Eu-154	Suspended	1.3 U	5.5	1.6	2.6
RD-19	SMRD-019-GW081910	Eu-154	Total	-0.07	NA	3.7	NA
RD-19	SMRD-019-GW081910	Eu-155	Filtered	0.7 U	4.2	1.3	2.1
RD-19	SMRD-019-GW081910	Eu-155	Suspended	-0.24 U	1.1	0.34	0.55
RD-19	SMRD-019-GW081910	Eu-155	Total	0.3	NA	1.3	NA
RD-19	SMRD-019-GW081910	gross_alpha	Filtered	29.1	0.4	1.9	0.2
RD-19	SMRD-019-GW081910	gross_alpha	Suspended	0.47	0.41	0.16	0.21
RD-19	SMRD-019-GW081910	gross_alpha	Total	29.6	NA	2	NA
RD-19	SMRD-019-GW081910	gross_beta	Filtered	16.8	6.1	2.5	3.6
RD-19	SMRD-019-GW081910	gross_beta	Suspended	0.99	0.64	0.23	0.37
RD-19	SMRD-019-GW081910	gross_beta	Total	17.8	NA	2.5	NA
RD-19	SMRD-019-GW081910	H-3	Filtered	-43 U	150	42	71
RD-19	SMRD-019-GW081910	H-3	Suspended	13.3 R	20	6.3	9.6
RD-19	SMRD-019-GW081910	H-3	Total	-30 R	NA	42	NA
RD-19	SMRD-019-GW081910	Ho-166m	Filtered	-0.13 U	2.3	0.68	1.1
RD-19	SMRD-019-GW081910	Ho-166m	Suspended	0.01 U	1.1	0.32	0.53
RD-19	SMRD-019-GW081910	Ho-166m	Total	-0.17	NA	0.73	NA
RD-19	SMRD-019-GW081910	I-129	Filtered	0.06 U	0.45	0.14	0.22
RD-19	SMRD-019-GW081910	I-129	Suspended	0.18 U	0.47	0.14	0.23
RD-19	SMRD-019-GW081910	I-129	Total	0.24	NA	0.2	NA
RD-19	SMRD-019-GW081910	K-40	Filtered	-11.5 U	21	9.4	10
RD-19	SMRD-019-GW081910	K-40	Suspended	-4.4 U	12	4.1	5.5
RD-19	SMRD-019-GW081910	K-40	Total	-15.4	NA	9.9	NA
RD-19	SMRD-019-GW081910	Na-22	Filtered	-0.16 U	1.4	0.41	0.66
RD-19	SMRD-019-GW081910	Na-22	Suspended	0.23 U	0.69	0.2	0.32
RD-19	SMRD-019-GW081910	Na-22	Total	0.19	NA	0.45	NA
RD-19	SMRD-019-GW081910	Nb-94	Filtered	0 U	1.5	0.42	0.7
RD-19	SMRD-019-GW081910	Nb-94	Suspended	-0.11 U	0.65	0.19	0.31
RD-19	SMRD-019-GW081910	Nb-94	Total	-0.08	NA	0.43	NA
RD-19	SMRD-019-GW081910	Np-236	Filtered	0.04 U	3	0.88	1.5
RD-19	SMRD-019-GW081910	Np-236	Suspended	0.03 U	1.2	0.35	0.58
RD-19	SMRD-019-GW081910	Np-236	Total	-0.03	NA	1.1	NA
RD-19	SMRD-019-GW081910	Np-237	Suspended	0.036	0.081	0.026	0.024
RD-19	SMRD-019-GW081910	Np-237	Total	0.038	NA	0.027	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-019-GW081910	Np-239	Filtered	-3.4 U	11	3.2	5.3
RD-19	SMRD-019-GW081910	Np-239	Suspended	-0.7 U	3.7	1.1	1.8
RD-19	SMRD-019-GW081910	Np-239	Total	-3.4	NA	3.2	NA
RD-19	SMRD-019-GW081910	Pa-231	Filtered	-17 U	70	21	34
RD-19	SMRD-019-GW081910	Pa-231	Suspended	4.6 U	25	7.4	12
RD-19	SMRD-019-GW081910	Pa-231	Total	-12	NA	22	NA
RD-19	SMRD-019-GW081910	Pb-212	Filtered	4.3	3.4	1.6	1.6
RD-19	SMRD-019-GW081910	Pb-212	Suspended	0.6	1.1	0.37	0.53
RD-19	SMRD-019-GW081910	Pb-212	Total	5.1	NA	1.8	NA
RD-19	SMRD-019-GW081910	Pb-214	Filtered	6.3	3.2	1.1	1.6
RD-19	SMRD-019-GW081910	Pb-214	Suspended	-0.55 U	1.5	0.67	0.71
RD-19	SMRD-019-GW081910	Pb-214	Total	5.7	NA	1.3	NA
RD-19	SMRD-019-GW081910	Pu-238	Filtered	-0.008 U	0.06	0.012	0.027
RD-19	SMRD-019-GW081910	Pu-238	Suspended	0.003 U	0.061	0.015	0.029
RD-19	SMRD-019-GW081910	Pu-238	Total	-0.005	NA	0.019	NA
RD-19	SMRD-019-GW081910	Pu-239/240	Filtered	0.0014 U	0.033	0.0062	0.011
RD-19	SMRD-019-GW081910	Pu-239/240	Suspended	-0.0043 U	0.039	0.0064	0.016
RD-19	SMRD-019-GW081910	Pu-239/240	Total	-0.0029	NA	0.0089	NA
RD-19	SMRD-019-GW081910	Pu-242	Filtered	-0.0007 U	0.037	0.0065	0.014
RD-19	SMRD-019-GW081910	Pu-242	Suspended	0.0037 U	0.041	0.0096	0.017
RD-19	SMRD-019-GW081910	Pu-242	Total	0.003	NA	0.012	NA
RD-19	SMRD-019-GW081910	Ra-226	Filtered	0.94	0.16	0.12	0.08
RD-19	SMRD-019-GW081910	Ra-226	Suspended	0.07 U	0.14	0.043	0.076
RD-19	SMRD-019-GW081910	Ra-226	Total	1.01	NA	0.13	NA
RD-19	SMRD-019-GW081910	Sb-125	Filtered	0.9 U	16	4.9	8
RD-19	SMRD-019-GW081910	Sb-125	Suspended	1.3 U	5.2	1.6	2.5
RD-19	SMRD-019-GW081910	Sb-125	Total	4.2	NA	4.5	NA
RD-19	SMRD-019-GW081910	Sn-126	Filtered	0.07 U	1.2	0.36	0.59
RD-19	SMRD-019-GW081910	Sn-126	Suspended	0 U	0.83	0.24	0.4
RD-19	SMRD-019-GW081910	Sn-126	Total	0.66	NA	0.53	NA
RD-19	SMRD-019-GW081910	Sr-90	Filtered	0.01 U	0.25	0.071	0.15
RD-19	SMRD-019-GW081910	Sr-90	Suspended	-0.053 U	0.17	0.046	0.1
RD-19	SMRD-019-GW081910	Sr-90	Total	-0.043	NA	0.084	NA
RD-19	SMRD-019-GW081910	Tc-99	Filtered	0.04 U	1.7	0.51	0.84
RD-19	SMRD-019-GW081910	Tc-99	Suspended	-0.17 U	1.2	0.36	0.59
RD-19	SMRD-019-GW081910	Tc-99	Total	-0.13	NA	0.62	NA
RD-19	SMRD-019-GW081910	Te-125m	Filtered	0.2 U	3.8	1.1	1.9
RD-19	SMRD-019-GW081910	Te-125m	Suspended	0.3 U	1.2	0.36	0.59

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-019-GW081910	Te-125m	Total	3.9	NA	4.2	NA
RD-19	SMRD-019-GW081910	Th-231	Filtered	0.719	0.049	0.083	0.016
RD-19	SMRD-019-GW081910	Th-231	Suspended	-0.0021 U	0.028	0.0066	0.0066
RD-19	SMRD-019-GW081910	Th-231	Total	0.717	NA	0.083	NA
RD-19	SMRD-019-GW081910	Th-234	Filtered	52	31	14	15
RD-19	SMRD-019-GW081910	Th-234	Suspended	-2.8 U	8	2.7	3.9
RD-19	SMRD-019-GW081910	Th-234	Total	46	NA	14	NA
RD-19	SMRD-019-GW081910	Tl-208	Filtered	1.6	1.8	0.93	0.89
RD-19	SMRD-019-GW081910	Tl-208	Suspended	-0.13 U	0.81	0.28	0.39
RD-19	SMRD-019-GW081910	Tl-208	Total	1.5	NA	1	NA
RD-19	SMRD-019-GW081910	Tm-171	Filtered	-540 R U	480	150	230
RD-19	SMRD-019-GW081910	Tm-171	Suspended	2 U	92	27	45
RD-19	SMRD-019-GW081910	Tm-171	Total	-540 R	NA	160	NA
RD-19	SMRD-019-GW081910	U-233/234	Filtered	14.1	0.04	0.66	0.01
RD-19	SMRD-019-GW081910	U-233/234	Suspended	0.028	0.027	0.014	0.008
RD-19	SMRD-019-GW081910	U-233/234	Total	14.1	NA	0.66	NA
RD-19	SMRD-019-GW081910	U-235/236	Filtered	0.719	0.049	0.083	0.016
RD-19	SMRD-019-GW081910	U-235/236	Suspended	-0.0021 U	0.028	0.0066	0.0066
RD-19	SMRD-019-GW081910	U-235/236	Total	0.717	NA	0.083	NA
RD-19	SMRD-019-GW081910	U-238	Filtered	13.3	0.04	0.63	0.02
RD-19	SMRD-019-GW081910	U-238	Suspended	0.027	0.023	0.013	0.005
RD-19	SMRD-019-GW081910	U-238	Total	13.3	NA	0.63	NA
RD-20	SMRD-20-GW082610	Ac-227	Filtered	-9.2 L U	10	3.2	5.1
RD-20	SMRD-20-GW082610	Ac-227	Suspended	-3.5 L U	4.6	1.4	2.2
RD-20	SMRD-20-GW082610	Ac-227	Total	-12.7 R	NA	3.5	NA
RD-20	SMRD-20-GW082610	Ac-228	Filtered	4.4	3.5	1.2	1.6
RD-20	SMRD-20-GW082610	Ac-228	Suspended	2.67 B	1.7	0.74	0.78
RD-20	SMRD-20-GW082610	Ac-228	Total	7.1	NA	1.4	NA
RD-20	SMRD-20-GW082610	Ag-108	Filtered	0.013 U R	0.09	0.027	0.043
RD-20	SMRD-20-GW082610	Ag-108	Suspended	0.014 U R	0.051	0.015	0.025
RD-20	SMRD-20-GW082610	Ag-108	Total	0.027 R	NA	0.031	NA
RD-20	SMRD-20-GW082610	Ag-108m	Filtered	0.14 U R	0.97	0.29	0.46
RD-20	SMRD-20-GW082610	Ag-108m	Suspended	0.15 U R	0.55	0.16	0.26
RD-20	SMRD-20-GW082610	Ag-108m	Total	0.29 R	NA	0.33	NA
RD-20	SMRD-20-GW082610	Ba-133	Filtered	0.9 U R	12	3.6	5.9
RD-20	SMRD-20-GW082610	Ba-133	Suspended	0.04 U R	4.7	1.4	2.2
RD-20	SMRD-20-GW082610	Ba-133	Total	0.9 R	NA	3.8	NA
RD-20	SMRD-20-GW082610	Ba-137m	Filtered	0.03 U	1.1	0.32	0.52

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW082610	Ba-137m	Suspended	0.02 U	0.68	0.2	0.32
RD-20	SMRD-20-GW082610	Ba-137m	Total	0.05	NA	0.37	NA
RD-20	SMRD-20-GW082610	Bi-212	Filtered	1.4 U	12	3.2	5.5
RD-20	SMRD-20-GW082610	Bi-212	Suspended	4.2	5.6	1.7	2.6
RD-20	SMRD-20-GW082610	Bi-212	Total	5.5	NA	3.7	NA
RD-20	SMRD-20-GW082610	Bi-214	Filtered	0.4 U	2.9	1	1.4
RD-20	SMRD-20-GW082610	Bi-214	Suspended	0.51 U	1.6	0.51	0.76
RD-20	SMRD-20-GW082610	Bi-214	Total	1	NA	1.2	NA
RD-20	SMRD-20-GW082610	Cd-113m	Filtered	-100 U	15000	4300	7100
RD-20	SMRD-20-GW082610	Cd-113m	Suspended	600 U	7200	2100	3500
RD-20	SMRD-20-GW082610	Cd-113m	Total	500	NA	4800	NA
RD-20	SMRD-20-GW082610	Cf-249	Filtered	0.4 U R	4.6	1.4	2.2
RD-20	SMRD-20-GW082610	Cf-249	Suspended	0.008 U R	3	0.87	1.4
RD-20	SMRD-20-GW082610	Cf-249	Total	0.4 R	NA	1.6	NA
RD-20	SMRD-20-GW082610	Co-60	Filtered	0.47 U	1.3	0.38	0.6
RD-20	SMRD-20-GW082610	Co-60	Suspended	0.08 U	0.82	0.23	0.38
RD-20	SMRD-20-GW082610	Co-60	Total	0.55	NA	0.45	NA
RD-20	SMRD-20-GW082610	Cs-134	Filtered	-0.28 U	1.3	0.37	0.6
RD-20	SMRD-20-GW082610	Cs-134	Suspended	0.66 SK	1.2	0.19	0.56
RD-20	SMRD-20-GW082610	Cs-134	Total	0.38 SK	NA	0.42	NA
RD-20	SMRD-20-GW082610	Cs-137	Filtered	0.03 U	1.2	0.33	0.55
RD-20	SMRD-20-GW082610	Cs-137	Suspended	0.02 U	0.72	0.21	0.34
RD-20	SMRD-20-GW082610	Cs-137	Total	0.05	NA	0.39	NA
RD-20	SMRD-20-GW082610	Eu-152	Filtered	0 U	3.5	1	1.7
RD-20	SMRD-20-GW082610	Eu-152	Suspended	-0.04 U	1.8	0.53	0.86
RD-20	SMRD-20-GW082610	Eu-152	Total	-0.04	NA	1.2	NA
RD-20	SMRD-20-GW082610	Eu-154	Filtered	2.4 U	9.1	2.7	4.3
RD-20	SMRD-20-GW082610	Eu-154	Suspended	-0.4 U	5.6	1.6	2.6
RD-20	SMRD-20-GW082610	Eu-154	Total	1.9	NA	3.1	NA
RD-20	SMRD-20-GW082610	Eu-155	Filtered	0.118 U	3.4	0.997	1.6
RD-20	SMRD-20-GW082610	Eu-155	Suspended	0.48 U	1.1	0.34	0.55
RD-20	SMRD-20-GW082610	Eu-155	Total	0.6 SK	NA	1.1	NA
RD-20	SMRD-20-GW082610	gross_alpha	Filtered	7.59	0.46	0.58	0.24
RD-20	SMRD-20-GW082610	gross_alpha	Suspended	0.45	0.6	0.21	0.3
RD-20	SMRD-20-GW082610	gross_alpha	Total	8.04	NA	0.62	NA
RD-20	SMRD-20-GW082610	gross_beta	Filtered	9.5	2.5	1.1	1.4
RD-20	SMRD-20-GW082610	gross_beta	Suspended	0.02 U	0.68	0.19	0.4
RD-20	SMRD-20-GW082610	gross_beta	Total	9.5	NA	1.2	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW082610	H-3	Filtered	-49 U	130	40	66
RD-20	SMRD-20-GW082610	H-3	Suspended	-5 U R	23	5.9	10
RD-20	SMRD-20-GW082610	H-3	Total	-54 R	NA	40	NA
RD-20	SMRD-20-GW082610	Ho-166m	Filtered	-0.15 U	2	0.59	0.97
RD-20	SMRD-20-GW082610	Ho-166m	Suspended	-0.09 U	1.1	0.31	0.51
RD-20	SMRD-20-GW082610	Ho-166m	Total	-0.24 SK	NA	0.67	NA
RD-20	SMRD-20-GW082610	K-40	Filtered	7.2 U	23	6	11
RD-20	SMRD-20-GW082610	K-40	Suspended	3.8 U	9.4	2.7	4.4
RD-20	SMRD-20-GW082610	K-40	Total	11	NA	6.6	NA
RD-20	SMRD-20-GW082610	Na-22	Filtered	-0.14 U	1.5	0.42	0.69
RD-20	SMRD-20-GW082610	Na-22	Suspended	0.06 U	0.79	0.22	0.36
RD-20	SMRD-20-GW082610	Na-22	Total	-0.07	NA	0.48	NA
RD-20	SMRD-20-GW082610	Nb-94	Filtered	0.002 U	1.1	0.33	0.55
RD-20	SMRD-20-GW082610	Nb-94	Suspended	-0.04 U	0.7	0.21	0.34
RD-20	SMRD-20-GW082610	Nb-94	Total	-0.04	NA	0.39	NA
RD-20	SMRD-20-GW082610	Np-236	Filtered	-0.58 U	2.9	0.87	1.4
RD-20	SMRD-20-GW082610	Np-236	Suspended	-0.02 U	1	0.3	0.49
RD-20	SMRD-20-GW082610	Np-236	Total	-0.6 SK	NA	0.92	NA
RD-20	SMRD-20-GW082610	Np-239	Filtered	0.1 U	7.7	2.3	3.7
RD-20	SMRD-20-GW082610	Np-239	Suspended	0.52 U	3	0.88	1.4
RD-20	SMRD-20-GW082610	Np-239	Total	0.7	NA	2.4	NA
RD-20	SMRD-20-GW082610	Pa-231	Filtered	15 U	51	15	25
RD-20	SMRD-20-GW082610	Pa-231	Suspended	0.9 U	27	7.8	13
RD-20	SMRD-20-GW082610	Pa-231	Total	16	NA	17	NA
RD-20	SMRD-20-GW082610	Pb-212	Filtered	0.92 U	2.9	0.99	1.4
RD-20	SMRD-20-GW082610	Pb-212	Suspended	0.09 U	1.3	0.42	0.62
RD-20	SMRD-20-GW082610	Pb-212	Total	1	NA	1.1	NA
RD-20	SMRD-20-GW082610	Pb-214	Filtered	1.1 U	2.8	1.1	1.3
RD-20	SMRD-20-GW082610	Pb-214	Suspended	0.33 U	1.5	0.42	0.75
RD-20	SMRD-20-GW082610	Pb-214	Total	1.4	NA	1.1	NA
RD-20	SMRD-20-GW082610	Sb-125	Filtered	-0.6 U	14	4.1	6.7
RD-20	SMRD-20-GW082610	Sb-125	Suspended	0.3 U	5.9	1.7	2.8
RD-20	SMRD-20-GW082610	Sb-125	Total	-0.2 SK	NA	4.4	NA
RD-20	SMRD-20-GW082610	Sn-126	Filtered	0.37 U	0.95	0.28	0.45
RD-20	SMRD-20-GW082610	Sn-126	Suspended	0.04 U	0.75	0.22	0.36
RD-20	SMRD-20-GW082610	Sn-126	Total	0.41	NA	0.36	NA
RD-20	SMRD-20-GW082610	Sr-90	Filtered	-0.039 U	0.14	0.037	0.076
RD-20	SMRD-20-GW082610	Sr-90	Suspended	-0.015 U	0.1	0.029	0.058

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW082610	Sr-90	Total	-0.054	NA	0.047	NA
RD-20	SMRD-20-GW082610	Te-125m	Filtered	-0.13 U	3.2	0.94	1.6
RD-20	SMRD-20-GW082610	Te-125m	Suspended	0.08 U	1.4	0.4	0.66
RD-20	SMRD-20-GW082610	Te-125m	Total	-0.05 SK	NA	1	NA
RD-20	SMRD-20-GW082610	Th-231	Filtered	0.144	0.027	0.028	0.008
RD-20	SMRD-20-GW082610	Th-231	Suspended	0.0024 U	0.0066	0.0024	0.0056
RD-20	SMRD-20-GW082610	Th-231	Total	0.146	NA	0.028	NA
RD-20	SMRD-20-GW082610	Th-234	Filtered	2 U	21	6.6	10
RD-20	SMRD-20-GW082610	Th-234	Suspended	-1.8 U	7.7	3.4	3.8
RD-20	SMRD-20-GW082610	Th-234	Total	0.2	NA	7.4	NA
RD-20	SMRD-20-GW082610	Tl-208	Filtered	0.86	1.6	0.54	0.76
RD-20	SMRD-20-GW082610	Tl-208	Suspended	0.51	0.84	0.33	0.4
RD-20	SMRD-20-GW082610	Tl-208	Total	1.37	NA	0.63	NA
RD-20	SMRD-20-GW082610	Tm-171	Filtered	5 U	450	130	220
RD-20	SMRD-20-GW082610	Tm-171	Suspended	-24 U	130	39	64
RD-20	SMRD-20-GW082610	Tm-171	Total	-20	NA	140	NA
RD-20	SMRD-20-GW082610	U-233/234	Filtered	3.8 K	0.03	0.2	0.01
RD-20	SMRD-20-GW082610	U-233/234	Suspended	0.0176	0.014	0.0065	0.0045
RD-20	SMRD-20-GW082610	U-233/234	Total	3.82	NA	0.2	NA
RD-20	SMRD-20-GW082610	U-235/236	Filtered	0.144	0.027	0.028	0.008
RD-20	SMRD-20-GW082610	U-235/236	Suspended	0.0024 U	0.0066	0.0024	0.0056
RD-20	SMRD-20-GW082610	U-235/236	Total	0.146	NA	0.028	NA
RD-20	SMRD-20-GW082610	U-238	Filtered	3.37	0.03	0.18	0.009
RD-20	SMRD-20-GW082610	U-238	Suspended	0.0175	0.026	0.0085	0.01
RD-20	SMRD-20-GW082610	U-238	Total	3.39	NA	0.18	NA
RD-21	SMRD-021-GW090910	Ac-227	Filtered	2.8 U	6.5	2	3.2
RD-21	SMRD-021-GW090910	Ac-227	Suspended	-1 U	4.3	1.3	2.1
RD-21	SMRD-021-GW090910	Ac-227	Total	1.8	NA	2.4	NA
RD-21	SMRD-021-GW090910	Ac-228	Filtered	3.6	4	1.3	1.9
RD-21	SMRD-021-GW090910	Ac-228	Suspended	1.77 B	2.3	0.73	1.1
RD-21	SMRD-021-GW090910	Ac-228	Total	5.3	NA	1.5	NA
RD-21	SMRD-021-GW090910	Ag-108	Filtered	0.002 U R	0.08	0.023	0.038
RD-21	SMRD-021-GW090910	Ag-108	Suspended	0.007 U R	0.042	0.012	0.02
RD-21	SMRD-021-GW090910	Ag-108	Total	0.009 R	NA	0.026	NA
RD-21	SMRD-021-GW090910	Ag-108m	Filtered	0.02 U R	0.86	0.25	0.41
RD-21	SMRD-021-GW090910	Ag-108m	Suspended	0.07 U R	0.45	0.13	0.21
RD-21	SMRD-021-GW090910	Ag-108m	Total	0.09 R	NA	0.28	NA
RD-21	SMRD-021-GW090910	Ba-133	Filtered	-2.3 U R	12	3.7	6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-021-GW090910	Ba-133	Suspended	-1.1 U R	6.5	1.9	3.1
RD-21	SMRD-021-GW090910	Ba-133	Total	-3.4 R	NA	4.2	NA
RD-21	SMRD-021-GW090910	Ba-137m	Filtered	0.24 U	1.2	0.34	0.55
RD-21	SMRD-021-GW090910	Ba-137m	Suspended	0 U	0.7	0.2	0.33
RD-21	SMRD-021-GW090910	Ba-137m	Total	0.24	NA	0.4	NA
RD-21	SMRD-021-GW090910	Bi-212	Filtered	-0.8 U	11	4.2	5.5
RD-21	SMRD-021-GW090910	Bi-212	Suspended	3.3	5.3	1.6	2.5
RD-21	SMRD-021-GW090910	Bi-212	Total	2.4	NA	4.5	NA
RD-21	SMRD-021-GW090910	Bi-214	Filtered	0.55 U	2.8	0.89	1.3
RD-21	SMRD-021-GW090910	Bi-214	Suspended	2.88	1.8	0.75	0.88
RD-21	SMRD-021-GW090910	Bi-214	Total	3.4	NA	1.2	NA
RD-21	SMRD-021-GW090910	Cd-113m	Filtered	-2500 U	14000	4000	6600
RD-21	SMRD-021-GW090910	Cd-113m	Suspended	700 U	6900	2100	3400
RD-21	SMRD-021-GW090910	Cd-113m	Total	-1800	NA	4500	NA
RD-21	SMRD-021-GW090910	Cf-249	Filtered	2.4 U R	5.2	1.6	2.5
RD-21	SMRD-021-GW090910	Cf-249	Suspended	-0.08 U R	3.1	0.9	1.5
RD-21	SMRD-021-GW090910	Cf-249	Total	2.4 R	NA	1.8	NA
RD-21	SMRD-021-GW090910	Co-60	Filtered	-0.01 U	1.3	0.36	0.59
RD-21	SMRD-021-GW090910	Co-60	Suspended	0.14 U	0.81	0.24	0.38
RD-21	SMRD-021-GW090910	Co-60	Total	0.13	NA	0.43	NA
RD-21	SMRD-021-GW090910	Cs-134	Filtered	0.32 U	1.4	0.41	0.67
RD-21	SMRD-021-GW090910	Cs-134	Suspended	-0.44 U	0.98	0.3	0.47
RD-21	SMRD-021-GW090910	Cs-134	Total	-0.12 SK	NA	0.51	NA
RD-21	SMRD-021-GW090910	Cs-137	Filtered	0.26 U	1.2	0.36	0.58
RD-21	SMRD-021-GW090910	Cs-137	Suspended	0 U	0.74	0.21	0.35
RD-21	SMRD-021-GW090910	Cs-137	Total	0.26	NA	0.42	NA
RD-21	SMRD-021-GW090910	Eu-152	Filtered	0.62 U	3.2	0.94	1.5
RD-21	SMRD-021-GW090910	Eu-152	Suspended	-0.01 U	1.6	0.47	0.78
RD-21	SMRD-021-GW090910	Eu-152	Total	0.6	NA	1.1	NA
RD-21	SMRD-021-GW090910	Eu-154	Filtered	1.3 U	9.9	2.9	4.7
RD-21	SMRD-021-GW090910	Eu-154	Suspended	-1 U	6.4	1.9	3
RD-21	SMRD-021-GW090910	Eu-154	Total	0.3	NA	3.4	NA
RD-21	SMRD-021-GW090910	Eu-155	Filtered	0.02 U	3.2	0.95	1.6
RD-21	SMRD-021-GW090910	Eu-155	Suspended	0.23 U	1.2	0.36	0.58
RD-21	SMRD-021-GW090910	Eu-155	Total	0.3 SK	NA	1	NA
RD-21	SMRD-021-GW090910	gross_alpha	Filtered	14.1	0.48	0.88	0.26
RD-21	SMRD-021-GW090910	gross_alpha	Suspended	0.19 U	0.45	0.14	0.24
RD-21	SMRD-021-GW090910	gross_alpha	Total	14.3	NA	0.89	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-021-GW090910	gross_beta	Filtered	6	2.4	0.98	1.4
RD-21	SMRD-021-GW090910	gross_beta	Suspended	0.59	0.77	0.25	0.45
RD-21	SMRD-021-GW090910	gross_beta	Total	6.6	NA	1	NA
RD-21	SMRD-021-GW090910	H-3	Filtered	-33 U	140	40	67
RD-21	SMRD-021-GW090910	H-3	Suspended	-17.7 R U	22	5	10
RD-21	SMRD-021-GW090910	H-3	Total	-51 R	NA	41	NA
RD-21	SMRD-021-GW090910	Ho-166m	Filtered	-0.28 U	2.2	0.64	1
RD-21	SMRD-021-GW090910	Ho-166m	Suspended	-0.12 U	1.1	0.32	0.52
RD-21	SMRD-021-GW090910	Ho-166m	Total	-0.4 SK	NA	0.72	NA
RD-21	SMRD-021-GW090910	K-40	Filtered	-2.8 U	23	6	11
RD-21	SMRD-021-GW090910	K-40	Suspended	-0.3 U	9.3	2.3	4.3
RD-21	SMRD-021-GW090910	K-40	Total	-3.1	NA	6.4	NA
RD-21	SMRD-021-GW090910	Na-22	Filtered	0.07 U	1.3	0.38	0.61
RD-21	SMRD-021-GW090910	Na-22	Suspended	-0.09 U	0.82	0.23	0.38
RD-21	SMRD-021-GW090910	Na-22	Total	-0.02	NA	0.44	NA
RD-21	SMRD-021-GW090910	Nb-94	Filtered	-0.3 U	1.1	0.34	0.54
RD-21	SMRD-021-GW090910	Nb-94	Suspended	0.006 U	0.72	0.21	0.35
RD-21	SMRD-021-GW090910	Nb-94	Total	-0.29	NA	0.4	NA
RD-21	SMRD-021-GW090910	Np-236	Filtered	-0.55 U	2.9	0.87	1.4
RD-21	SMRD-021-GW090910	Np-236	Suspended	0.17 U	1.1	0.34	0.55
RD-21	SMRD-021-GW090910	Np-236	Total	-0.38 SK	NA	0.93	NA
RD-21	SMRD-021-GW090910	Np-239	Filtered	1.7 U	7.5	2.2	3.6
RD-21	SMRD-021-GW090910	Np-239	Suspended	0.5 U	3.6	1.1	1.7
RD-21	SMRD-021-GW090910	Np-239	Total	2.2	NA	2.5	NA
RD-21	SMRD-021-GW090910	Pa-231	Filtered	-11 U	56	17	27
RD-21	SMRD-021-GW090910	Pa-231	Suspended	8.5 U	23	6.9	11
RD-21	SMRD-021-GW090910	Pa-231	Total	-2	NA	18	NA
RD-21	SMRD-021-GW090910	Pb-212	Filtered	0.4 U	3.1	1.1	1.5
RD-21	SMRD-021-GW090910	Pb-212	Suspended	0.22 U	1.3	0.44	0.63
RD-21	SMRD-021-GW090910	Pb-212	Total	0.7	NA	1.2	NA
RD-21	SMRD-021-GW090910	Pb-214	Filtered	-0.22 U	2.5	0.86	1.2
RD-21	SMRD-021-GW090910	Pb-214	Suspended	0.85	1.6	0.65	0.78
RD-21	SMRD-021-GW090910	Pb-214	Total	0.6	NA	1.1	NA
RD-21	SMRD-021-GW090910	Sb-125	Filtered	-2.8 U	14	4.2	6.9
RD-21	SMRD-021-GW090910	Sb-125	Suspended	1.5 U	6.4	1.9	3.1
RD-21	SMRD-021-GW090910	Sb-125	Total	-1.3 SK	NA	4.6	NA
RD-21	SMRD-021-GW090910	Sn-126	Filtered	0.05 U	1.3	0.39	0.65
RD-21	SMRD-021-GW090910	Sn-126	Suspended	0.26 U	0.83	0.25	0.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-021-GW090910	Sn-126	Total	0.31	NA	0.47	NA
RD-21	SMRD-021-GW090910	Sr-90	Filtered	-0.014 U	0.12	0.035	0.07
RD-21	SMRD-021-GW090910	Sr-90	Suspended	-0.032 U	0.11	0.031	0.063
RD-21	SMRD-021-GW090910	Sr-90	Total	-0.046	NA	0.047	NA
RD-21	SMRD-021-GW090910	Te-125m	Filtered	-0.65 U	3.3	0.97	1.6
RD-21	SMRD-021-GW090910	Te-125m	Suspended	0.34 U	1.5	0.44	0.72
RD-21	SMRD-021-GW090910	Te-125m	Total	-0.3 SK	NA	1.1	NA
RD-21	SMRD-021-GW090910	Th-231	Filtered	0.256	0.027	0.037	0.008
RD-21	SMRD-021-GW090910	Th-231	Suspended	0.0033 U	0.0089	0.0033	0.0077
RD-21	SMRD-021-GW090910	Th-231	Total	0.259	NA	0.037	NA
RD-21	SMRD-021-GW090910	Th-234	Filtered	1.8 U	22	7.5	11
RD-21	SMRD-021-GW090910	Th-234	Suspended	2.2 U	7.9	2.8	3.9
RD-21	SMRD-021-GW090910	Th-234	Total	4	NA	8	NA
RD-21	SMRD-021-GW090910	Tl-208	Filtered	0.84	1.6	0.55	0.77
RD-21	SMRD-021-GW090910	Tl-208	Suspended	0.03 U	1	0.28	0.5
RD-21	SMRD-021-GW090910	Tl-208	Total	0.87	NA	0.62	NA
RD-21	SMRD-021-GW090910	Tm-171	Filtered	10 U	400	120	200
RD-21	SMRD-021-GW090910	Tm-171	Suspended	27 U	130	39	63
RD-21	SMRD-021-GW090910	Tm-171	Total	40	NA	130	NA
RD-21	SMRD-021-GW090910	U-233/234	Filtered	6.68 K	0.03	0.32	0.01
RD-21	SMRD-021-GW090910	U-233/234	Suspended	0.0212	0.02	0.0084	0.0062
RD-21	SMRD-021-GW090910	U-233/234	Total	6.7	NA	0.32	NA
RD-21	SMRD-021-GW090910	U-235/236	Filtered	0.256	0.027	0.037	0.008
RD-21	SMRD-021-GW090910	U-235/236	Suspended	0.0033 U	0.0089	0.0033	0.0077
RD-21	SMRD-021-GW090910	U-235/236	Total	0.259	NA	0.037	NA
RD-21	SMRD-021-GW090910	U-238	Filtered	5.5	0.02	0.27	0.006
RD-21	SMRD-021-GW090910	U-238	Suspended	0.0159	0.019	0.0075	0.0062
RD-21	SMRD-021-GW090910	U-238	Total	5.52	NA	0.27	NA
RD-22	SMRD-022-GW090910	Ac-227	Filtered	3.2 U	9.1	2.7	4.4
RD-22	SMRD-022-GW090910	Ac-227	Suspended	0.18 U	2.7	0.78	1.3
RD-22	SMRD-022-GW090910	Ac-227	Total	3.4	NA	2.9	NA
RD-22	SMRD-022-GW090910	Ac-228	Filtered	7.8	3.7	1.5	1.6
RD-22	SMRD-022-GW090910	Ac-228	Suspended	-1.1 U B	3.1	1.5	1.5
RD-22	SMRD-022-GW090910	Ac-228	Total	6.7	NA	2.1	NA
RD-22	SMRD-022-GW090910	Ag-108	Filtered	-0.034 U R	0.13	0.038	0.061
RD-22	SMRD-022-GW090910	Ag-108	Suspended	0.0006 U R	0.05	0.015	0.024
RD-22	SMRD-022-GW090910	Ag-108	Total	-0.033 R	NA	0.041	NA
RD-22	SMRD-022-GW090910	Ag-108m	Filtered	-0.36 U R	1.4	0.41	0.65

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-022-GW090910	Ag-108m	Suspended	0.006 U R	0.54	0.16	0.26
RD-22	SMRD-022-GW090910	Ag-108m	Total	-0.36 R	NA	0.44	NA
RD-22	SMRD-022-GW090910	Ba-133	Filtered	4.4 U R	12	3.7	5.9
RD-22	SMRD-022-GW090910	Ba-133	Suspended	0.2 U R	5.9	1.8	2.9
RD-22	SMRD-022-GW090910	Ba-133	Total	4.6 R	NA	4.1	NA
RD-22	SMRD-022-GW090910	Ba-137m	Filtered	0.33 U	1.6	0.46	0.73
RD-22	SMRD-022-GW090910	Ba-137m	Suspended	0.22 U	0.65	0.19	0.31
RD-22	SMRD-022-GW090910	Ba-137m	Total	0.55	NA	0.5	NA
RD-22	SMRD-022-GW090910	Bi-212	Filtered	4.1 U	14	4.1	6.5
RD-22	SMRD-022-GW090910	Bi-212	Suspended	0.8 U	5.8	1.7	2.8
RD-22	SMRD-022-GW090910	Bi-212	Total	5	NA	4.4	NA
RD-22	SMRD-022-GW090910	Bi-214	Filtered	2.1	3.6	1.3	1.7
RD-22	SMRD-022-GW090910	Bi-214	Suspended	-0.54 U	1.7	0.69	0.81
RD-22	SMRD-022-GW090910	Bi-214	Total	1.6	NA	1.5	NA
RD-22	SMRD-022-GW090910	Cd-113m	Filtered	2200 U	16000	4600	7400
RD-22	SMRD-022-GW090910	Cd-113m	Suspended	-100 U	7000	2100	3400
RD-22	SMRD-022-GW090910	Cd-113m	Total	2100	NA	5000	NA
RD-22	SMRD-022-GW090910	Cf-249	Filtered	3.8 R	6.4	2	3
RD-22	SMRD-022-GW090910	Cf-249	Suspended	0.3 U R	2.9	0.85	1.4
RD-22	SMRD-022-GW090910	Cf-249	Total	4.1 R	NA	2.1	NA
RD-22	SMRD-022-GW090910	Co-60	Filtered	-0.14 U	1.8	0.51	0.82
RD-22	SMRD-022-GW090910	Co-60	Suspended	-0.03 U	0.72	0.2	0.34
RD-22	SMRD-022-GW090910	Co-60	Total	-0.17	NA	0.55	NA
RD-22	SMRD-022-GW090910	Cs-134	Filtered	-0.22 U	1.7	0.51	0.82
RD-22	SMRD-022-GW090910	Cs-134	Suspended	0.02 U	0.86	0.25	0.42
RD-22	SMRD-022-GW090910	Cs-134	Total	-0.2 SK	NA	0.57	NA
RD-22	SMRD-022-GW090910	Cs-137	Filtered	0.35 U	1.6	0.48	0.77
RD-22	SMRD-022-GW090910	Cs-137	Suspended	0.23 U	0.68	0.2	0.33
RD-22	SMRD-022-GW090910	Cs-137	Total	0.58	NA	0.52	NA
RD-22	SMRD-022-GW090910	Eu-152	Filtered	-1.2 U	4.2	1.3	2
RD-22	SMRD-022-GW090910	Eu-152	Suspended	0.45 U	1.5	0.44	0.7
RD-22	SMRD-022-GW090910	Eu-152	Total	-0.7	NA	1.3	NA
RD-22	SMRD-022-GW090910	Eu-154	Filtered	-2.3 U	11	3.2	5
RD-22	SMRD-022-GW090910	Eu-154	Suspended	1 U	5.8	1.7	2.7
RD-22	SMRD-022-GW090910	Eu-154	Total	-1.3	NA	3.6	NA
RD-22	SMRD-022-GW090910	Eu-155	Filtered	1 U	3.4	1	1.6
RD-22	SMRD-022-GW090910	Eu-155	Suspended	0.01 U	1.2	0.36	0.6
RD-22	SMRD-022-GW090910	Eu-155	Total	1 SK	NA	1.1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-022-GW090910	gross_alpha	Filtered	4.94	0.48	0.46	0.25
RD-22	SMRD-022-GW090910	gross_alpha	Suspended	0.05 U	0.45	0.12	0.24
RD-22	SMRD-022-GW090910	gross_alpha	Total	4.99	NA	0.48	NA
RD-22	SMRD-022-GW090910	gross_beta	Filtered	18.5	3.1	1.7	1.8
RD-22	SMRD-022-GW090910	gross_beta	Suspended	0.34 U	0.76	0.23	0.45
RD-22	SMRD-022-GW090910	gross_beta	Total	18.8	NA	1.7	NA
RD-22	SMRD-022-GW090910	H-3	Filtered	-15 U	150	45	74
RD-22	SMRD-022-GW090910	H-3	Suspended	-2.4 U R	25	6.5	11
RD-22	SMRD-022-GW090910	H-3	Total	-18 R	NA	45	NA
RD-22	SMRD-022-GW090910	Ho-166m	Filtered	0.27 U	2.1	0.59	0.95
RD-22	SMRD-022-GW090910	Ho-166m	Suspended	0.49 U	1.1	0.33	0.52
RD-22	SMRD-022-GW090910	Ho-166m	Total	0.76 SK	NA	0.68	NA
RD-22	SMRD-022-GW090910	K-40	Filtered	-14 U	24	16	11
RD-22	SMRD-022-GW090910	K-40	Suspended	3.8 U	12	3	5.6
RD-22	SMRD-022-GW090910	K-40	Total	-11	NA	16	NA
RD-22	SMRD-022-GW090910	Na-22	Filtered	-0.19 U	2.2	0.61	0.99
RD-22	SMRD-022-GW090910	Na-22	Suspended	-0.02 U	0.71	0.2	0.33
RD-22	SMRD-022-GW090910	Na-22	Total	-0.21	NA	0.64	NA
RD-22	SMRD-022-GW090910	Nb-94	Filtered	0 U	1.7	0.47	0.78
RD-22	SMRD-022-GW090910	Nb-94	Suspended	-0.16 U	0.7	0.21	0.34
RD-22	SMRD-022-GW090910	Nb-94	Total	-0.16	NA	0.52	NA
RD-22	SMRD-022-GW090910	Np-236	Filtered	-0.79 U	3.1	0.93	1.5
RD-22	SMRD-022-GW090910	Np-236	Suspended	0.18 U	1.2	0.35	0.57
RD-22	SMRD-022-GW090910	Np-236	Total	-0.61 SK	NA	0.99	NA
RD-22	SMRD-022-GW090910	Np-239	Filtered	-0.07 U	8.4	2.4	4
RD-22	SMRD-022-GW090910	Np-239	Suspended	0.6 U	3.6	1.1	1.8
RD-22	SMRD-022-GW090910	Np-239	Total	0.5	NA	2.7	NA
RD-22	SMRD-022-GW090910	Pa-231	Filtered	13 U	60	18	29
RD-22	SMRD-022-GW090910	Pa-231	Suspended	7.6 U	24	7.1	11
RD-22	SMRD-022-GW090910	Pa-231	Total	21	NA	19	NA
RD-22	SMRD-022-GW090910	Pb-212	Filtered	1.81	2.8	0.87	1.3
RD-22	SMRD-022-GW090910	Pb-212	Suspended	0.27 U	1.2	0.36	0.58
RD-22	SMRD-022-GW090910	Pb-212	Total	2.08	NA	0.94	NA
RD-22	SMRD-022-GW090910	Pb-214	Filtered	2.1	3.3	1.2	1.6
RD-22	SMRD-022-GW090910	Pb-214	Suspended	-1 U	1.5	1	0.7
RD-22	SMRD-022-GW090910	Pb-214	Total	1.1	NA	1.6	NA
RD-22	SMRD-022-GW090910	Sb-125	Filtered	-2 U	15	4.5	7.3
RD-22	SMRD-022-GW090910	Sb-125	Suspended	1.1 U	5.9	1.8	2.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-022-GW090910	Sb-125	Total	-0.9 SK	NA	4.8	NA
RD-22	SMRD-022-GW090910	Sn-126	Filtered	0.51 U	1.4	0.43	0.66
RD-22	SMRD-022-GW090910	Sn-126	Suspended	0.28 U	0.75	0.23	0.36
RD-22	SMRD-022-GW090910	Sn-126	Total	0.79	NA	0.48	NA
RD-22	SMRD-022-GW090910	Sr-90	Filtered	-0.0009 U	0.11	0.033	0.064
RD-22	SMRD-022-GW090910	Sr-90	Suspended	-0.003 U	0.11	0.03	0.06
RD-22	SMRD-022-GW090910	Sr-90	Total	-0.004	NA	0.045	NA
RD-22	SMRD-022-GW090910	Te-125m	Filtered	-0.5 U	3.5	1	1.7
RD-22	SMRD-022-GW090910	Te-125m	Suspended	0.25 U	1.4	0.41	0.67
RD-22	SMRD-022-GW090910	Te-125m	Total	-0.2 SK	NA	1.1	NA
RD-22	SMRD-022-GW090910	Th-231	Filtered	0.046	0.011	0.014	0.007
RD-22	SMRD-022-GW090910	Th-231	Suspended	-0.0024 U	0.018	0.0024	0.0056
RD-22	SMRD-022-GW090910	Th-231	Total	0.044	NA	0.014	NA
RD-22	SMRD-022-GW090910	Th-234	Filtered	8.9 U	22	6.8	11
RD-22	SMRD-022-GW090910	Th-234	Suspended	-1.3 U	8.7	3.1	4.3
RD-22	SMRD-022-GW090910	Th-234	Total	7.6	NA	7.5	NA
RD-22	SMRD-022-GW090910	Tl-208	Filtered	1.6	1.8	0.65	0.84
RD-22	SMRD-022-GW090910	Tl-208	Suspended	0.46	0.8	0.28	0.39
RD-22	SMRD-022-GW090910	Tl-208	Total	2.05	NA	0.71	NA
RD-22	SMRD-022-GW090910	Tm-171	Filtered	150 U	340	100	160
RD-22	SMRD-022-GW090910	Tm-171	Suspended	-0.5 U	110	33	55
RD-22	SMRD-022-GW090910	Tm-171	Total	150	NA	110	NA
RD-22	SMRD-022-GW090910	U-233/234	Filtered	1.06 K	0.028	0.075	0.011
RD-22	SMRD-022-GW090910	U-233/234	Suspended	0.0135	0.014	0.0058	0.0045
RD-22	SMRD-022-GW090910	U-233/234	Total	1.08	NA	0.075	NA
RD-22	SMRD-022-GW090910	U-235/236	Filtered	0.046	0.011	0.014	0.007
RD-22	SMRD-022-GW090910	U-235/236	Suspended	-0.0024 U	0.018	0.0024	0.0056
RD-22	SMRD-022-GW090910	U-235/236	Total	0.044	NA	0.014	NA
RD-22	SMRD-022-GW090910	U-238	Filtered	0.51	0.026	0.047	0.01
RD-22	SMRD-022-GW090910	U-238	Suspended	0.0019 U	0.0052	0.0019	0.0045
RD-22	SMRD-022-GW090910	U-238	Total	0.512	NA	0.047	NA
RD-23	SMRD-23-GW090210	Ac-227	Filtered	-3.9 U	9.5	2.9	4.6
RD-23	SMRD-23-GW090210	Ac-227	Suspended	-1.8 U	4.4	1.3	2.1
RD-23	SMRD-23-GW090210	Ac-227	Total	-5.6	NA	3.2	NA
RD-23	SMRD-23-GW090210	Ac-228	Filtered	3.5 B	4.5	1.4	2.1
RD-23	SMRD-23-GW090210	Ac-228	Suspended	1.57	2.1	0.66	0.96
RD-23	SMRD-23-GW090210	Ac-228	Total	5.1 B	NA	1.6	NA
RD-23	SMRD-23-GW090210	Ag-108	Filtered	-0.015 U R	0.12	0.034	0.055

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW090210	Ag-108	Suspended	0.013 U R	0.041	0.012	0.019
RD-23	SMRD-23-GW090210	Ag-108	Total	-0.002 R	NA	0.036	NA
RD-23	SMRD-23-GW090210	Ag-108m	Filtered	-0.16 U R	1.2	0.36	0.59
RD-23	SMRD-23-GW090210	Ag-108m	Suspended	0.14 U R	0.44	0.13	0.21
RD-23	SMRD-23-GW090210	Ag-108m	Total	-0.02 R	NA	0.39	NA
RD-23	SMRD-23-GW090210	Ba-133	Filtered	-3.1 U R	14	4	6.5
RD-23	SMRD-23-GW090210	Ba-133	Suspended	0.2 U R	6.4	1.9	3.1
RD-23	SMRD-23-GW090210	Ba-133	Total	-2.9 R	NA	4.5	NA
RD-23	SMRD-23-GW090210	Ba-137m	Filtered	0.39 U	1.4	0.4	0.63
RD-23	SMRD-23-GW090210	Ba-137m	Suspended	0.2 U	0.61	0.2	0.29
RD-23	SMRD-23-GW090210	Ba-137m	Total	0.6	NA	0.45	NA
RD-23	SMRD-23-GW090210	Bi-212	Filtered	5.5	12	3.6	5.4
RD-23	SMRD-23-GW090210	Bi-212	Suspended	1.1 U	5.4	1.6	2.5
RD-23	SMRD-23-GW090210	Bi-212	Total	6.7	NA	3.9	NA
RD-23	SMRD-23-GW090210	Bi-214	Filtered	1.3 U	2.9	1	1.4
RD-23	SMRD-23-GW090210	Bi-214	Suspended	-0.9 U	1.7	1.7	0.8
RD-23	SMRD-23-GW090210	Bi-214	Total	0.4	NA	2	NA
RD-23	SMRD-23-GW090210	Cd-113m	Filtered	1800 U	14000	4000	6500
RD-23	SMRD-23-GW090210	Cd-113m	Suspended	40 U	6600	1900	3200
RD-23	SMRD-23-GW090210	Cd-113m	Total	1800	NA	4400	NA
RD-23	SMRD-23-GW090210	Cf-249	Filtered	1 U R	6.3	1.8	3
RD-23	SMRD-23-GW090210	Cf-249	Suspended	0 U B	3.1	0.91	1.5
RD-23	SMRD-23-GW090210	Cf-249	Total	1 B R	NA	2.1	NA
RD-23	SMRD-23-GW090210	Co-60	Filtered	0.02 U	1.3	0.36	0.6
RD-23	SMRD-23-GW090210	Co-60	Suspended	0.24 U	0.74	0.22	0.34
RD-23	SMRD-23-GW090210	Co-60	Total	0.26	NA	0.42	NA
RD-23	SMRD-23-GW090210	Cs-134	Filtered	-0.17 U	1.5	0.44	0.72
RD-23	SMRD-23-GW090210	Cs-134	Suspended	0.08 U	0.86	0.25	0.41
RD-23	SMRD-23-GW090210	Cs-134	Total	-0.09	NA	0.51	NA
RD-23	SMRD-23-GW090210	Cs-137	Filtered	0.42 U	1.4	0.42	0.67
RD-23	SMRD-23-GW090210	Cs-137	Suspended	0.21 U	0.64	0.21	0.3
RD-23	SMRD-23-GW090210	Cs-137	Total	0.63	NA	0.47	NA
RD-23	SMRD-23-GW090210	Eu-152	Filtered	1.34 U	3.2	0.96	1.5
RD-23	SMRD-23-GW090210	Eu-152	Suspended	0.67 U	1.5	0.45	0.71
RD-23	SMRD-23-GW090210	Eu-152	Total	2	NA	1.1	NA
RD-23	SMRD-23-GW090210	Eu-154	Filtered	-2.4 U	14	4	6.3
RD-23	SMRD-23-GW090210	Eu-154	Suspended	-0.9 U	5.8	1.7	2.7
RD-23	SMRD-23-GW090210	Eu-154	Total	-3.4	NA	4.3	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW090210	Eu-155	Filtered	0.17 U	3.3	0.97	1.6
RD-23	SMRD-23-GW090210	Eu-155	Suspended	0 U	1.4	0.42	0.69
RD-23	SMRD-23-GW090210	Eu-155	Total	0.2	NA	1.1	NA
RD-23	SMRD-23-GW090210	gross_alpha	Filtered	2.03	0.66	0.34	0.35
RD-23	SMRD-23-GW090210	gross_alpha	Suspended	0.01 U	0.46	0.12	0.24
RD-23	SMRD-23-GW090210	gross_alpha	Total	2.04	NA	0.36	NA
RD-23	SMRD-23-GW090210	gross_beta	Filtered	2.21	1.1	0.43	0.64
RD-23	SMRD-23-GW090210	gross_beta	Suspended	-0.05 U	0.75	0.21	0.44
RD-23	SMRD-23-GW090210	gross_beta	Total	2.16	NA	0.48	NA
RD-23	SMRD-23-GW090210	H-3	Filtered	28 U	130	40	65
RD-23	SMRD-23-GW090210	H-3	Total	28 R	NA	40	NA
RD-23	SMRD-23-GW090210	Ho-166m	Filtered	0 U	2.9	0.83	1.4
RD-23	SMRD-23-GW090210	Ho-166m	Suspended	-0.05 U	1	0.29	0.48
RD-23	SMRD-23-GW090210	Ho-166m	Total	-0.05	NA	0.88	NA
RD-23	SMRD-23-GW090210	K-40	Filtered	5.7 U	18	5.3	8.3
RD-23	SMRD-23-GW090210	K-40	Suspended	-5.6 U	11	7.7	5.1
RD-23	SMRD-23-GW090210	K-40	Total	0.2	NA	9.3	NA
RD-23	SMRD-23-GW090210	Na-22	Filtered	0.03 U	1.7	0.48	0.8
RD-23	SMRD-23-GW090210	Na-22	Suspended	0.18 U	0.77	0.22	0.35
RD-23	SMRD-23-GW090210	Na-22	Total	0.21	NA	0.53	NA
RD-23	SMRD-23-GW090210	Nb-94	Filtered	0.07 U	1.2	0.34	0.55
RD-23	SMRD-23-GW090210	Nb-94	Suspended	0.05 U	0.59	0.17	0.28
RD-23	SMRD-23-GW090210	Nb-94	Total	0.13	NA	0.38	NA
RD-23	SMRD-23-GW090210	Np-236	Filtered	0.74 U	2.4	0.72	1.1
RD-23	SMRD-23-GW090210	Np-236	Suspended	-0.35 U	1.2	0.37	0.6
RD-23	SMRD-23-GW090210	Np-236	Total	0.39	NA	0.8	NA
RD-23	SMRD-23-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-23	SMRD-23-GW090210	Np-239	Filtered	0.8 U	8	2.4	3.9
RD-23	SMRD-23-GW090210	Np-239	Suspended	0.6 U	3.4	1	1.7
RD-23	SMRD-23-GW090210	Np-239	Total	1.4	NA	2.6	NA
RD-23	SMRD-23-GW090210	Pa-231	Filtered	-2 U	57	17	27
RD-23	SMRD-23-GW090210	Pa-231	Suspended	-5.5 U	24	7.2	12
RD-23	SMRD-23-GW090210	Pa-231	Total	-7	NA	18	NA
RD-23	SMRD-23-GW090210	Pb-212	Filtered	0.42 U	2.4	0.79	1.2
RD-23	SMRD-23-GW090210	Pb-212	Suspended	0.84	1	0.33	0.49
RD-23	SMRD-23-GW090210	Pb-212	Total	1.26	NA	0.85	NA
RD-23	SMRD-23-GW090210	Pb-214	Filtered	-0.5 U	3	1.3	1.4
RD-23	SMRD-23-GW090210	Pb-214	Suspended	-1.6 U	1.5	3.2	0.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW090210	Pb-214	Total	-2.1	NA	3.5	NA
RD-23	SMRD-23-GW090210	Sb-125	Filtered	3.7 U	13	4	6.5
RD-23	SMRD-23-GW090210	Sb-125	Suspended	0.6 U	6.3	1.9	3
RD-23	SMRD-23-GW090210	Sb-125	Total	4.3	NA	4.4	NA
RD-23	SMRD-23-GW090210	Sn-126	Filtered	0.009 U	1.6	0.44	0.73
RD-23	SMRD-23-GW090210	Sn-126	Suspended	0.42	0.72	0.22	0.34
RD-23	SMRD-23-GW090210	Sn-126	Total	0.42	NA	0.5	NA
RD-23	SMRD-23-GW090210	Sr-90	Filtered	0.028 U	0.1	0.031	0.058
RD-23	SMRD-23-GW090210	Sr-90	Suspended	0.004 U	0.13	0.036	0.071
RD-23	SMRD-23-GW090210	Sr-90	Total	0.032	NA	0.048	NA
RD-23	SMRD-23-GW090210	Te-125m	Filtered	0.87 U	3.1	0.93	1.5
RD-23	SMRD-23-GW090210	Te-125m	Suspended	0.14 U	1.4	0.43	0.7
RD-23	SMRD-23-GW090210	Te-125m	Total	1	NA	1	NA
RD-23	SMRD-23-GW090210	Th-231	Filtered	0.0263	0.0079	0.0088	0.0068
RD-23	SMRD-23-GW090210	Th-231	Suspended	0.0049 U	0.0067	0.0035	0.0057
RD-23	SMRD-23-GW090210	Th-231	Total	0.0313	NA	0.0095	NA
RD-23	SMRD-23-GW090210	Th-234	Filtered	8.7 U	23	7.5	11
RD-23	SMRD-23-GW090210	Th-234	Suspended	1.4 U	6.9	2	3.4
RD-23	SMRD-23-GW090210	Th-234	Total	10.1	NA	7.8	NA
RD-23	SMRD-23-GW090210	Tl-208	Filtered	-0.3 U	1.7	0.68	0.82
RD-23	SMRD-23-GW090210	Tl-208	Suspended	0.11 U	0.83	0.23	0.39
RD-23	SMRD-23-GW090210	Tl-208	Total	-0.19	NA	0.72	NA
RD-23	SMRD-23-GW090210	Tm-171	Filtered	-70 U	380	110	180
RD-23	SMRD-23-GW090210	Tm-171	Suspended	-183 R U	130	43	65
RD-23	SMRD-23-GW090210	Tm-171	Total	-250 R	NA	120	NA
RD-23	SMRD-23-GW090210	U-233/234	Filtered	0.673	0.017	0.049	0.005
RD-23	SMRD-23-GW090210	U-233/234	Suspended	0.0047	0.015	0.0063	0.0046
RD-23	SMRD-23-GW090210	U-233/234	Total	0.678	NA	0.05	NA
RD-23	SMRD-23-GW090210	U-235/236	Filtered	0.0263	0.0079	0.0088	0.0068
RD-23	SMRD-23-GW090210	U-235/236	Suspended	0.0049 U	0.0067	0.0035	0.0057
RD-23	SMRD-23-GW090210	U-235/236	Total	0.0313	NA	0.0095	NA
RD-23	SMRD-23-GW090210	U-238	Filtered	0.407	0.017	0.036	0.005
RD-23	SMRD-23-GW090210	U-238	Suspended	0.0036 U	0.018	0.0062	0.0065
RD-23	SMRD-23-GW090210	U-238	Total	0.411	NA	0.036	NA
RD-24	SMRD-24-GW083110	Ac-227	Filtered	-4.5 U	9.6	2.9	4.6
RD-24	SMRD-24-GW083110	Ac-227	Suspended	0.1 U	6.3	1.9	3.1
RD-24	SMRD-24-GW083110	Ac-227	Total	-4.4	NA	3.5	NA
RD-24	SMRD-24-GW083110	Ac-228	Filtered	9.6	4.8	1.9	2.2

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW083110	Ac-228	Suspended	-1.7 U	3.1	2.1	1.5
RD-24	SMRD-24-GW083110	Ac-228	Total	8	NA	2.8	NA
RD-24	SMRD-24-GW083110	Ag-108	Filtered	-0.023 U R	0.12	0.035	0.056
RD-24	SMRD-24-GW083110	Ag-108	Suspended	0.011 U R	0.051	0.015	0.024
RD-24	SMRD-24-GW083110	Ag-108	Total	-0.012 R	NA	0.038	NA
RD-24	SMRD-24-GW083110	Ag-108m	Filtered	-0.25 U R	1.3	0.37	0.6
RD-24	SMRD-24-GW083110	Ag-108m	Suspended	0.12 U R	0.55	0.16	0.26
RD-24	SMRD-24-GW083110	Ag-108m	Total	-0.13 R	NA	0.41	NA
RD-24	SMRD-24-GW083110	Ba-133	Filtered	2.3 U R	13	3.9	6.3
RD-24	SMRD-24-GW083110	Ba-133	Suspended	-0.6 U R	5.9	1.8	2.9
RD-24	SMRD-24-GW083110	Ba-133	Total	1.8 R	NA	4.3	NA
RD-24	SMRD-24-GW083110	Ba-137m	Filtered	0.39 U	1.3	0.4	0.62
RD-24	SMRD-24-GW083110	Ba-137m	Suspended	-0.16 U	0.7	0.21	0.33
RD-24	SMRD-24-GW083110	Ba-137m	Total	0.24	NA	0.45	NA
RD-24	SMRD-24-GW083110	Bi-212	Filtered	4 U	11	3.3	5.1
RD-24	SMRD-24-GW083110	Bi-212	Suspended	0.9 U	5	1.5	2.4
RD-24	SMRD-24-GW083110	Bi-212	Total	4.8	NA	3.6	NA
RD-24	SMRD-24-GW083110	Bi-214	Filtered	0.8 U	3.4	1.1	1.6
RD-24	SMRD-24-GW083110	Bi-214	Suspended	0.49 U	1.7	0.58	0.81
RD-24	SMRD-24-GW083110	Bi-214	Total	1.3	NA	1.2	NA
RD-24	SMRD-24-GW083110	Cd-113m	Filtered	-800 U	16000	4700	7700
RD-24	SMRD-24-GW083110	Cd-113m	Suspended	-400 U	6800	2000	3300
RD-24	SMRD-24-GW083110	Cd-113m	Total	-1200	NA	5100	NA
RD-24	SMRD-24-GW083110	Cf-249	Filtered	1 U R	6.3	1.9	3
RD-24	SMRD-24-GW083110	Cf-249	Suspended	-0.34 U R	3	0.88	1.4
RD-24	SMRD-24-GW083110	Cf-249	Total	0.7 R	NA	2.1	NA
RD-24	SMRD-24-GW083110	Co-60	Filtered	-0.13 U	1.8	0.52	0.84
RD-24	SMRD-24-GW083110	Co-60	Suspended	0.4	0.72	0.22	0.33
RD-24	SMRD-24-GW083110	Co-60	Total	0.26	NA	0.56	NA
RD-24	SMRD-24-GW083110	Cs-134	Filtered	-0.05 U	1.6	0.46	0.76
RD-24	SMRD-24-GW083110	Cs-134	Suspended	0.12 U	0.74	0.22	0.35
RD-24	SMRD-24-GW083110	Cs-134	Total	0.07 SK	NA	0.51	NA
RD-24	SMRD-24-GW083110	Cs-137	Filtered	0.41 U	1.4	0.42	0.66
RD-24	SMRD-24-GW083110	Cs-137	Suspended	-0.16 U	0.74	0.22	0.35
RD-24	SMRD-24-GW083110	Cs-137	Total	0.25	NA	0.47	NA
RD-24	SMRD-24-GW083110	Eu-152	Filtered	-0.2 U	3.9	1.1	1.9
RD-24	SMRD-24-GW083110	Eu-152	Suspended	0.06 U	1.8	0.53	0.87
RD-24	SMRD-24-GW083110	Eu-152	Total	-0.1	NA	1.3	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW083110	Eu-154	Filtered	-0.9 U	11	3.1	4.9
RD-24	SMRD-24-GW083110	Eu-154	Suspended	-0.9 U	5.7	1.7	2.7
RD-24	SMRD-24-GW083110	Eu-154	Total	-1.8	NA	3.5	NA
RD-24	SMRD-24-GW083110	Eu-155	Filtered	1.1 U	3.3	1	1.6
RD-24	SMRD-24-GW083110	Eu-155	Suspended	0 U	1.2	0.37	0.61
RD-24	SMRD-24-GW083110	Eu-155	Total	1.1 SK	NA	1.1	NA
RD-24	SMRD-24-GW083110	gross_alpha	Filtered	7.79	0.41	0.59	0.21
RD-24	SMRD-24-GW083110	gross_alpha	Suspended	0.34	0.39	0.14	0.2
RD-24	SMRD-24-GW083110	gross_alpha	Total	8.12	NA	0.6	NA
RD-24	SMRD-24-GW083110	gross_beta	Filtered	7.28	2.2	0.99	1.3
RD-24	SMRD-24-GW083110	gross_beta	Suspended	-0.009 U	0.68	0.19	0.4
RD-24	SMRD-24-GW083110	gross_beta	Total	7.3	NA	1	NA
RD-24	SMRD-24-GW083110	H-3	Filtered	79	120	38	61
RD-24	SMRD-24-GW083110	H-3	Suspended	9.4 U R	21	6.4	9.5
RD-24	SMRD-24-GW083110	H-3	Total	88 R	NA	38	NA
RD-24	SMRD-24-GW083110	Ho-166m	Filtered	-0.54 U	2.5	0.72	1.2
RD-24	SMRD-24-GW083110	Ho-166m	Suspended	0 U	1.2	0.35	0.58
RD-24	SMRD-24-GW083110	Ho-166m	Total	-0.54 SK	NA	0.8	NA
RD-24	SMRD-24-GW083110	K-40	Filtered	12.3	20	4.8	9.3
RD-24	SMRD-24-GW083110	K-40	Suspended	4.5 U	12	3.3	5.7
RD-24	SMRD-24-GW083110	K-40	Total	16.8	NA	5.8	NA
RD-24	SMRD-24-GW083110	Na-22	Filtered	0.07 U	1.9	0.51	0.84
RD-24	SMRD-24-GW083110	Na-22	Suspended	0.002 U	0.65	0.18	0.3
RD-24	SMRD-24-GW083110	Na-22	Total	0.07	NA	0.54	NA
RD-24	SMRD-24-GW083110	Nb-94	Filtered	0.64	1.1	0.35	0.52
RD-24	SMRD-24-GW083110	Nb-94	Suspended	-0.005 U	0.64	0.19	0.3
RD-24	SMRD-24-GW083110	Nb-94	Total	0.63	NA	0.4	NA
RD-24	SMRD-24-GW083110	Np-236	Filtered	0.65 U	2.4	0.71	1.1
RD-24	SMRD-24-GW083110	Np-236	Suspended	-0.04 U	1.2	0.36	0.58
RD-24	SMRD-24-GW083110	Np-236	Total	0.61 SK	NA	0.8	NA
RD-24	SMRD-24-GW083110	Np-239	Filtered	1.5 U	7.5	2.2	3.6
RD-24	SMRD-24-GW083110	Np-239	Suspended	1 U	3.6	1.1	1.8
RD-24	SMRD-24-GW083110	Np-239	Total	2.5	NA	2.5	NA
RD-24	SMRD-24-GW083110	Pa-231	Filtered	-18 U	63	19	30
RD-24	SMRD-24-GW083110	Pa-231	Suspended	1.3 U	26	7.7	13
RD-24	SMRD-24-GW083110	Pa-231	Total	-17	NA	20	NA
RD-24	SMRD-24-GW083110	Pb-212	Filtered	1.05 U	2.6	0.71	1.3
RD-24	SMRD-24-GW083110	Pb-212	Suspended	1.45	1.2	0.44	0.61

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW083110	Pb-212	Total	2.5	NA	0.83	NA
RD-24	SMRD-24-GW083110	Pb-214	Filtered	-6.4 L U	3.1	2.6	1.5
RD-24	SMRD-24-GW083110	Pb-214	Suspended	-0.67 U	1.6	0.68	0.78
RD-24	SMRD-24-GW083110	Pb-214	Total	-7 L	NA	2.7	NA
RD-24	SMRD-24-GW083110	Sb-125	Filtered	-4.4 U	14	4.3	7
RD-24	SMRD-24-GW083110	Sb-125	Suspended	1.3 U	5.7	1.7	2.8
RD-24	SMRD-24-GW083110	Sb-125	Total	-3.1 SK	NA	4.7	NA
RD-24	SMRD-24-GW083110	Sn-126	Filtered	0.42 U	1.5	0.45	0.72
RD-24	SMRD-24-GW083110	Sn-126	Suspended	-0.004 U	0.81	0.24	0.39
RD-24	SMRD-24-GW083110	Sn-126	Total	0.42	NA	0.51	NA
RD-24	SMRD-24-GW083110	Sr-90	Filtered	-0.052 U	0.16	0.041	0.094
RD-24	SMRD-24-GW083110	Sr-90	Suspended	0.0004 U	0.094	0.027	0.053
RD-24	SMRD-24-GW083110	Sr-90	Total	-0.052	NA	0.049	NA
RD-24	SMRD-24-GW083110	Te-125m	Filtered	-1 U	3.3	1	1.6
RD-24	SMRD-24-GW083110	Te-125m	Suspended	0.29 U	1.3	0.4	0.64
RD-24	SMRD-24-GW083110	Te-125m	Total	-0.7 SK	NA	1.1	NA
RD-24	SMRD-24-GW083110	Th-231	Filtered	0.177	0.019	0.023	0.006
RD-24	SMRD-24-GW083110	Th-231	Suspended	-0.0044 U	0.035	0.0031	0.012
RD-24	SMRD-24-GW083110	Th-231	Total	0.172	NA	0.023	NA
RD-24	SMRD-24-GW083110	Th-234	Filtered	9.4 U	22	7.4	11
RD-24	SMRD-24-GW083110	Th-234	Suspended	4.2	8.3	2.7	4.1
RD-24	SMRD-24-GW083110	Th-234	Total	13.6	NA	7.8	NA
RD-24	SMRD-24-GW083110	Tl-208	Filtered	0.71 U	1.8	0.48	0.83
RD-24	SMRD-24-GW083110	Tl-208	Suspended	0.77	0.85	0.34	0.41
RD-24	SMRD-24-GW083110	Tl-208	Total	1.48	NA	0.59	NA
RD-24	SMRD-24-GW083110	Tm-171	Filtered	7 U	340	98	160
RD-24	SMRD-24-GW083110	Tm-171	Suspended	-27 U	130	39	63
RD-24	SMRD-24-GW083110	Tm-171	Total	-20	NA	110	NA
RD-24	SMRD-24-GW083110	U-233/234	Filtered	4.4	0.006	0.21	0.005
RD-24	SMRD-24-GW083110	U-233/234	Suspended	0.0055 U	0.028	0.0097	0.0095
RD-24	SMRD-24-GW083110	U-233/234	Total	4.41	NA	0.21	NA
RD-24	SMRD-24-GW083110	U-235/236	Filtered	0.177	0.019	0.023	0.006
RD-24	SMRD-24-GW083110	U-235/236	Suspended	-0.0044 U	0.035	0.0031	0.012
RD-24	SMRD-24-GW083110	U-235/236	Total	0.172	NA	0.023	NA
RD-24	SMRD-24-GW083110	U-238	Filtered	3.63	0.006	0.18	0.005
RD-24	SMRD-24-GW083110	U-238	Suspended	0.005 U	0.035	0.01	0.013
RD-24	SMRD-24-GW083110	U-238	Total	3.63	NA	0.18	NA
RD-27	SMRD-027-GW090310	Ac-227	Filtered	-5.3 U	9.9	3	4.8

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-027-GW090310	Ac-227	Suspended	-1.1 U	3.6	1.1	1.7
RD-27	SMRD-027-GW090310	Ac-227	Total	-6.5 L	NA	3.2	NA
RD-27	SMRD-027-GW090310	Ac-228	Filtered	2.9 B	4.7	1.5	2.2
RD-27	SMRD-027-GW090310	Ac-228	Suspended	1.94	2.1	0.68	0.96
RD-27	SMRD-027-GW090310	Ac-228	Total	4.9 B	NA	1.6	NA
RD-27	SMRD-027-GW090310	Ag-108	Filtered	0.008 U R	0.11	0.032	0.052
RD-27	SMRD-027-GW090310	Ag-108	Suspended	-0.006 U R	0.05	0.015	0.024
RD-27	SMRD-027-GW090310	Ag-108	Total	0.001 R	NA	0.035	NA
RD-27	SMRD-027-GW090310	Ag-108m	Filtered	0.08 U R	1.2	0.34	0.56
RD-27	SMRD-027-GW090310	Ag-108m	Suspended	-0.07 U R	0.54	0.16	0.26
RD-27	SMRD-027-GW090310	Ag-108m	Total	0.01 R	NA	0.38	NA
RD-27	SMRD-027-GW090310	Ba-133	Filtered	1.9 U R	9.5	2.8	4.5
RD-27	SMRD-027-GW090310	Ba-133	Suspended	-0.2 U R	4.3	1.3	2.1
RD-27	SMRD-027-GW090310	Ba-133	Total	1.7 R	NA	3.1	NA
RD-27	SMRD-027-GW090310	Ba-137m	Filtered	-0.21 U	1.4	0.4	0.65
RD-27	SMRD-027-GW090310	Ba-137m	Suspended	-0.11 U	0.71	0.28	0.33
RD-27	SMRD-027-GW090310	Ba-137m	Total	-0.33	NA	0.49	NA
RD-27	SMRD-027-GW090310	Bi-212	Filtered	-1 U	9.7	2.7	4.4
RD-27	SMRD-027-GW090310	Bi-212	Suspended	2.6	5.6	1.7	2.6
RD-27	SMRD-027-GW090310	Bi-212	Total	1.7	NA	3.2	NA
RD-27	SMRD-027-GW090310	Bi-214	Filtered	-0.4 U	3.2	1.1	1.5
RD-27	SMRD-027-GW090310	Bi-214	Suspended	0.19 U	1.3	0.41	0.59
RD-27	SMRD-027-GW090310	Bi-214	Total	-0.2	NA	1.2	NA
RD-27	SMRD-027-GW090310	Cd-113m	Filtered	5700 U	13000	3900	6200
RD-27	SMRD-027-GW090310	Cd-113m	Suspended	-800 U	7200	2100	3500
RD-27	SMRD-027-GW090310	Cd-113m	Total	4900	NA	4500	NA
RD-27	SMRD-027-GW090310	Cf-249	Filtered	1.3 U R	5.5	1.6	2.6
RD-27	SMRD-027-GW090310	Cf-249	Suspended	-0.57 U B	2.8	0.83	1.3
RD-27	SMRD-027-GW090310	Cf-249	Total	0.7 B R	NA	1.8	NA
RD-27	SMRD-027-GW090310	Co-60	Filtered	-0.44 U	1.8	0.52	0.82
RD-27	SMRD-027-GW090310	Co-60	Suspended	0.13 U	0.78	0.22	0.35
RD-27	SMRD-027-GW090310	Co-60	Total	-0.31	NA	0.56	NA
RD-27	SMRD-027-GW090310	Cs-134	Filtered	-0.68 U	1.7	0.51	0.8
RD-27	SMRD-027-GW090310	Cs-134	Suspended	0.007 U	0.67	0.19	0.32
RD-27	SMRD-027-GW090310	Cs-134	Total	-0.68	NA	0.54	NA
RD-27	SMRD-027-GW090310	Cs-137	Filtered	-0.23 U	1.5	0.43	0.69
RD-27	SMRD-027-GW090310	Cs-137	Suspended	-0.12 U	0.75	0.3	0.35
RD-27	SMRD-027-GW090310	Cs-137	Total	-0.35	NA	0.52	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-027-GW090310	Eu-152	Filtered	0 U	3.7	1.1	1.8
RD-27	SMRD-027-GW090310	Eu-152	Suspended	0.002 U	1.5	0.43	0.71
RD-27	SMRD-027-GW090310	Eu-152	Total	0.002	NA	1.2	NA
RD-27	SMRD-027-GW090310	Eu-154	Filtered	-4.1 U	12	3.6	5.6
RD-27	SMRD-027-GW090310	Eu-154	Suspended	-0.7 U	5.9	1.7	2.7
RD-27	SMRD-027-GW090310	Eu-154	Total	-4.8	NA	4	NA
RD-27	SMRD-027-GW090310	Eu-155	Filtered	-0.33 U	2.5	0.74	1.2
RD-27	SMRD-027-GW090310	Eu-155	Suspended	0.26 U	1	0.31	0.5
RD-27	SMRD-027-GW090310	Eu-155	Total	-0.07	NA	0.8	NA
RD-27	SMRD-027-GW090310	gross_alpha	Filtered	5.83	0.58	0.54	0.31
RD-27	SMRD-027-GW090310	gross_alpha	Suspended	0.85	0.61	0.25	0.32
RD-27	SMRD-027-GW090310	gross_alpha	Total	4.18	NA	0.46	NA
RD-27	SMRD-027-GW090310	gross_beta	Filtered	5.69	1.2	0.6	0.68
RD-27	SMRD-027-GW090310	gross_beta	Suspended	0.03 U	0.84	0.24	0.5
RD-27	SMRD-027-GW090310	gross_beta	Total	5.72	NA	0.64	NA
RD-27	SMRD-027-GW090310	H-3	Filtered	4 U	130	38	63
RD-27	SMRD-027-GW090310	H-3	Suspended	9.4 R	15	4.9	6.6
RD-27	SMRD-027-GW090310	H-3	Total	14 R	NA	39	NA
RD-27	SMRD-027-GW090310	Ho-166m	Filtered	-0.002 U	2	0.56	0.93
RD-27	SMRD-027-GW090310	Ho-166m	Suspended	0.16 U	0.94	0.27	0.44
RD-27	SMRD-027-GW090310	Ho-166m	Total	0.16	NA	0.63	NA
RD-27	SMRD-027-GW090310	K-40	Filtered	35.4	3.9	4.4	1.2
RD-27	SMRD-027-GW090310	K-40	Suspended	-5 U	10	6.9	4.9
RD-27	SMRD-027-GW090310	K-40	Total	30.4	NA	8.2	NA
RD-27	SMRD-027-GW090310	Na-22	Filtered	-0.24 U	1.7	0.47	0.75
RD-27	SMRD-027-GW090310	Na-22	Suspended	-0.23 U	0.96	0.28	0.44
RD-27	SMRD-027-GW090310	Na-22	Total	-0.47	NA	0.55	NA
RD-27	SMRD-027-GW090310	Nb-94	Filtered	-0.13 U	1.2	0.36	0.58
RD-27	SMRD-027-GW090310	Nb-94	Suspended	0.007 U	0.64	0.18	0.3
RD-27	SMRD-027-GW090310	Nb-94	Total	-0.12	NA	0.4	NA
RD-27	SMRD-027-GW090310	Np-236	Filtered	-0.21 U	2.7	0.8	1.3
RD-27	SMRD-027-GW090310	Np-236	Suspended	-0.11 U	1.2	0.36	0.59
RD-27	SMRD-027-GW090310	Np-236	Total	-0.33	NA	0.88	NA
RD-27	SMRD-027-GW090310	Np-236a	Total	0 R	NA	0	NA
RD-27	SMRD-027-GW090310	Np-239	Filtered	1.6 U	7.8	2.3	3.8
RD-27	SMRD-027-GW090310	Np-239	Suspended	0.02 U	3.1	0.9	1.5
RD-27	SMRD-027-GW090310	Np-239	Total	1.6	NA	2.5	NA
RD-27	SMRD-027-GW090310	Pa-231	Filtered	-0.03 U	55	16	27

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-027-GW090310	Pa-231	Suspended	4.1 U	26	7.7	12
RD-27	SMRD-027-GW090310	Pa-231	Total	4	NA	18	NA
RD-27	SMRD-027-GW090310	Pb-212	Filtered	1.85	2.5	0.97	1.2
RD-27	SMRD-027-GW090310	Pb-212	Suspended	0.39 U	1.1	0.42	0.55
RD-27	SMRD-027-GW090310	Pb-212	Total	2.2	NA	1.1	NA
RD-27	SMRD-027-GW090310	Pb-214	Filtered	-0.12 U	3	0.91	1.4
RD-27	SMRD-027-GW090310	Pb-214	Suspended	-1.2 U	1.4	1.6	0.7
RD-27	SMRD-027-GW090310	Pb-214	Total	-1.3	NA	1.8	NA
RD-27	SMRD-027-GW090310	Sb-125	Filtered	2.1 U	13	3.7	6.1
RD-27	SMRD-027-GW090310	Sb-125	Suspended	0.7 U	5.7	1.7	2.8
RD-27	SMRD-027-GW090310	Sb-125	Total	2.8	NA	4.1	NA
RD-27	SMRD-027-GW090310	Sn-126	Filtered	0.22 U	1.5	0.45	0.72
RD-27	SMRD-027-GW090310	Sn-126	Suspended	0.3 U	0.8	0.24	0.38
RD-27	SMRD-027-GW090310	Sn-126	Total	0.52	NA	0.51	NA
RD-27	SMRD-027-GW090310	Sr-90	Filtered	0.001 U	0.076	0.022	0.043
RD-27	SMRD-027-GW090310	Sr-90	Suspended	0.014 U	0.1	0.03	0.058
RD-27	SMRD-027-GW090310	Sr-90	Total	0.015	NA	0.037	NA
RD-27	SMRD-027-GW090310	Te-125m	Filtered	0.49 U	2.9	0.86	1.4
RD-27	SMRD-027-GW090310	Te-125m	Suspended	0.15 U	1.3	0.39	0.64
RD-27	SMRD-027-GW090310	Te-125m	Total	0.64	NA	0.95	NA
RD-27	SMRD-027-GW090310	Th-231	Filtered	0.071	0.007	0.014	0.006
RD-27	SMRD-027-GW090310	Th-231	Suspended	0.0025 U	0.0068	0.0025	0.0059
RD-27	SMRD-027-GW090310	Th-231	Total	0.073	NA	0.014	NA
RD-27	SMRD-027-GW090310	Th-234	Filtered	1.3 U	22	6.8	11
RD-27	SMRD-027-GW090310	Th-234	Suspended	2.1 U	7	2.2	3.4
RD-27	SMRD-027-GW090310	Th-234	Total	3.4	NA	7.1	NA
RD-27	SMRD-027-GW090310	Tl-208	Filtered	0.61 U	1.4	0.46	0.65
RD-27	SMRD-027-GW090310	Tl-208	Suspended	0.12 U	0.83	0.23	0.39
RD-27	SMRD-027-GW090310	Tl-208	Total	0.74	NA	0.52	NA
RD-27	SMRD-027-GW090310	Tm-171	Filtered	60 U	360	110	170
RD-27	SMRD-027-GW090310	Tm-171	Suspended	-146 R U	130	41	63
RD-27	SMRD-027-GW090310	Tm-171	Total	-90 R	NA	110	NA
RD-27	SMRD-027-GW090310	U-233/234	Filtered	1.7	0.02	0.094	0.007
RD-27	SMRD-027-GW090310	U-233/234	Suspended	0.0176	0.015	0.0081	0.0047
RD-27	SMRD-027-GW090310	U-233/234	Total	1.72	NA	0.094	NA
RD-27	SMRD-027-GW090310	U-235/236	Filtered	0.071	0.007	0.014	0.006
RD-27	SMRD-027-GW090310	U-235/236	Suspended	0.0025 U	0.0068	0.0025	0.0059
RD-27	SMRD-027-GW090310	U-235/236	Total	0.073	NA	0.014	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-027-GW090310	U-238	Filtered	1.29	0.006	0.076	0.005
RD-27	SMRD-027-GW090310	U-238	Suspended	0.0042 U	0.015	0.0057	0.0047
RD-27	SMRD-027-GW090310	U-238	Total	1.29	NA	0.076	NA
RD-29	SMRD-29-GW083110	Ac-227	Filtered	-0.1 U	6.8	2	3.2
RD-29	SMRD-29-GW083110	Ac-227	Suspended	-2.9 U	5.3	1.6	2.6
RD-29	SMRD-29-GW083110	Ac-227	Total	-3	NA	2.5	NA
RD-29	SMRD-29-GW083110	Ac-228	Filtered	1.8 U	4.6	1.4	2.1
RD-29	SMRD-29-GW083110	Ac-228	Suspended	0.82 U	2.1	0.64	1
RD-29	SMRD-29-GW083110	Ac-228	Total	2.6	NA	1.5	NA
RD-29	SMRD-29-GW083110	Ag-108	Filtered	-0.009 U R	0.12	0.034	0.055
RD-29	SMRD-29-GW083110	Ag-108	Suspended	0.001 U R	0.054	0.016	0.026
RD-29	SMRD-29-GW083110	Ag-108	Total	-0.1 R	NA	0.38	NA
RD-29	SMRD-29-GW083110	Ag-108m	Filtered	-0.1 U R	1.2	0.36	0.59
RD-29	SMRD-29-GW083110	Ag-108m	Suspended	-0.01 U R	0.58	0.17	0.28
RD-29	SMRD-29-GW083110	Ag-108m	Total	-0.11 R	NA	0.4	NA
RD-29	SMRD-29-GW083110	Am-241	Filtered	0.022	0.05	0.015	0.02
RD-29	SMRD-29-GW083110	Am-241	Suspended	0.011 U	0.05	0.013	0.021
RD-29	SMRD-29-GW083110	Am-241	Total	0.033	NA	0.02	NA
RD-29	SMRD-29-GW083110	Ba-133	Filtered	-0.4 U R	12	3.7	6
RD-29	SMRD-29-GW083110	Ba-133	Suspended	-0.7 U R	6.5	1.9	3.2
RD-29	SMRD-29-GW083110	Ba-133	Total	-1.1 R	NA	4.1	NA
RD-29	SMRD-29-GW083110	Ba-137m	Filtered	0.38 U	1.2	0.36	0.56
RD-29	SMRD-29-GW083110	Ba-137m	Suspended	-0.06 U	0.69	0.2	0.33
RD-29	SMRD-29-GW083110	Ba-137m	Total	0.32	NA	0.41	NA
RD-29	SMRD-29-GW083110	Bi-212	Filtered	-0.01 U	9.9	2.8	4.6
RD-29	SMRD-29-GW083110	Bi-212	Suspended	3.3	4.3	1.4	2
RD-29	SMRD-29-GW083110	Bi-212	Total	3.3	NA	3.1	NA
RD-29	SMRD-29-GW083110	Bi-214	Filtered	-2.7 U	3.7	4.6	1.8
RD-29	SMRD-29-GW083110	Bi-214	Suspended	2.73	1.6	0.61	0.75
RD-29	SMRD-29-GW083110	Bi-214	Total	-0.2	NA	4.7	NA
RD-29	SMRD-29-GW083110	C-14	Filtered	0.35 U	2.3	0.7	1.1
RD-29	SMRD-29-GW083110	C-14	Suspended	1.64 R	2.3	0.7	1.1
RD-29	SMRD-29-GW083110	C-14	Total	1.99 R	NA	0.99	NA
RD-29	SMRD-29-GW083110	Cd-113m	Filtered	80 U	15000	4400	7200
RD-29	SMRD-29-GW083110	Cd-113m	Suspended	-500 U	7400	2200	3600
RD-29	SMRD-29-GW083110	Cd-113m	Total	-400	NA	4900	NA
RD-29	SMRD-29-GW083110	Cf-249	Filtered	-0.5 U R	6.7	2	3.2
RD-29	SMRD-29-GW083110	Cf-249	Suspended	0.53 U R	3.1	0.93	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW083110	Cf-249	Total	0.06 R	NA	2.2	NA
RD-29	SMRD-29-GW083110	Cm-243/244	Filtered	0.001 U	0.085	0.021	0.042
RD-29	SMRD-29-GW083110	Cm-243/244	Suspended	0.05	0.076	0.025	0.037
RD-29	SMRD-29-GW083110	Cm-243/244	Total	0.052	NA	0.033	NA
RD-29	SMRD-29-GW083110	Cm-245/246	Filtered	0.0191	0.02	0.0085	0.0062
RD-29	SMRD-29-GW083110	Cm-245/246	Suspended	0.014 U	0.044	0.013	0.02
RD-29	SMRD-29-GW083110	Cm-245/246	Total	0.033	NA	0.015	NA
RD-29	SMRD-29-GW083110	Co-60	Filtered	-0.26 U	1.9	0.55	0.89
RD-29	SMRD-29-GW083110	Co-60	Suspended	0.007 U	0.55	0.15	0.25
RD-29	SMRD-29-GW083110	Co-60	Total	-0.25	NA	0.57	NA
RD-29	SMRD-29-GW083110	Cs-134	Filtered	-0.29 U	1.6	0.47	0.76
RD-29	SMRD-29-GW083110	Cs-134	Suspended	-0.37 U	0.78	0.24	0.38
RD-29	SMRD-29-GW083110	Cs-134	Total	-0.66	NA	0.52	NA
RD-29	SMRD-29-GW083110	Cs-137	Filtered	0.4 U	1.3	0.38	0.59
RD-29	SMRD-29-GW083110	Cs-137	Suspended	-0.06 U	0.73	0.21	0.35
RD-29	SMRD-29-GW083110	Cs-137	Total	0.34	NA	0.43	NA
RD-29	SMRD-29-GW083110	Eu-152	Filtered	-0.38 U	3.3	0.95	1.5
RD-29	SMRD-29-GW083110	Eu-152	Suspended	-0.21 U	1.7	0.51	0.84
RD-29	SMRD-29-GW083110	Eu-152	Total	-0.6	NA	1.1	NA
RD-29	SMRD-29-GW083110	Eu-154	Filtered	-1.9 U	14	4	6.4
RD-29	SMRD-29-GW083110	Eu-154	Suspended	-0.1 U	5.9	1.7	2.8
RD-29	SMRD-29-GW083110	Eu-154	Total	-2	NA	4.3	NA
RD-29	SMRD-29-GW083110	Eu-155	Filtered	0.66 U	3.2	0.97	1.6
RD-29	SMRD-29-GW083110	Eu-155	Suspended	0.12 U	1.3	0.38	0.63
RD-29	SMRD-29-GW083110	Eu-155	Total	0.8	NA	1	NA
RD-29	SMRD-29-GW083110	gross_alpha	Filtered	17.1	0.5	1.2	0.3
RD-29	SMRD-29-GW083110	gross_alpha	Suspended	0.59	0.48	0.19	0.26
RD-29	SMRD-29-GW083110	gross_alpha	Total	18.4	NA	1.3	NA
RD-29	SMRD-29-GW083110	gross_beta	Filtered	5.8	3.3	1.2	1.9
RD-29	SMRD-29-GW083110	gross_beta	Suspended	0.9	0.72	0.25	0.43
RD-29	SMRD-29-GW083110	gross_beta	Total	6.7	NA	1.3	NA
RD-29	SMRD-29-GW083110	H-3	Filtered	-32 U	140	41	68
RD-29	SMRD-29-GW083110	H-3	Suspended	5.8 U R	20	6.1	9.5
RD-29	SMRD-29-GW083110	H-3	Total	-26 R	NA	41	NA
RD-29	SMRD-29-GW083110	Ho-166m	Filtered	0.46 U	2.5	0.72	1.2
RD-29	SMRD-29-GW083110	Ho-166m	Suspended	0 U	1.2	0.33	0.55
RD-29	SMRD-29-GW083110	Ho-166m	Total	0.46	NA	0.79	NA
RD-29	SMRD-29-GW083110	I-129	Filtered	0.04 U	0.49	0.15	0.24

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW083110	I-129	Suspended	0.08 U	0.48	0.14	0.24
RD-29	SMRD-29-GW083110	I-129	Total	0.12	NA	0.21	NA
RD-29	SMRD-29-GW083110	K-40	Filtered	-18 U	25	19	12
RD-29	SMRD-29-GW083110	K-40	Suspended	29.1	9.9	3.8	4.7
RD-29	SMRD-29-GW083110	K-40	Total	-10	NA	19	NA
RD-29	SMRD-29-GW083110	Na-22	Filtered	-0.03 U	1.8	0.51	0.84
RD-29	SMRD-29-GW083110	Na-22	Suspended	0.05 U	0.64	0.18	0.29
RD-29	SMRD-29-GW083110	Na-22	Total	0.01	NA	0.54	NA
RD-29	SMRD-29-GW083110	Nb-94	Filtered	0.37 U	1.4	0.41	0.65
RD-29	SMRD-29-GW083110	Nb-94	Suspended	-0.003 U	0.65	0.19	0.31
RD-29	SMRD-29-GW083110	Nb-94	Total	0.37	NA	0.45	NA
RD-29	SMRD-29-GW083110	Np-236	Filtered	0.92 U	2.4	0.72	1.2
RD-29	SMRD-29-GW083110	Np-236	Suspended	0.15 U	1.3	0.39	0.65
RD-29	SMRD-29-GW083110	Np-236	Total	1.07	NA	0.82	NA
RD-29	SMRD-29-GW083110	Np-237	Suspended	-0.0019 U	0.021	0.0019	0.0063
RD-29	SMRD-29-GW083110	Np-237	Total	-0.0019	NA	0.0044	NA
RD-29	SMRD-29-GW083110	Np-239	Filtered	0.02 U	7.9	2.3	3.8
RD-29	SMRD-29-GW083110	Np-239	Suspended	0.3 U	3.7	1.1	1.8
RD-29	SMRD-29-GW083110	Np-239	Total	0.3	NA	2.5	NA
RD-29	SMRD-29-GW083110	Pa-231	Filtered	21 U	59	18	28
RD-29	SMRD-29-GW083110	Pa-231	Suspended	-8.7 U	30	8.9	14
RD-29	SMRD-29-GW083110	Pa-231	Total	13	NA	20	NA
RD-29	SMRD-29-GW083110	Pb-212	Filtered	1.08 U	2.4	0.92	1.1
RD-29	SMRD-29-GW083110	Pb-212	Suspended	1.26	1.4	0.47	0.66
RD-29	SMRD-29-GW083110	Pb-212	Total	1.9	NA	1	NA
RD-29	SMRD-29-GW083110	Pb-214	Filtered	2.04	2.6	0.8	1.2
RD-29	SMRD-29-GW083110	Pb-214	Suspended	3.16	1.2	0.44	0.6
RD-29	SMRD-29-GW083110	Pb-214	Total	5.2	NA	0.92	NA
RD-29	SMRD-29-GW083110	Pu-238	Filtered	0.013 U	0.048	0.013	0.02
RD-29	SMRD-29-GW083110	Pu-238	Suspended	0.035	0.054	0.017	0.025
RD-29	SMRD-29-GW083110	Pu-238	Total	0.047	NA	0.022	NA
RD-29	SMRD-29-GW083110	Pu-239/240	Filtered	0.0086	0.027	0.0078	0.0076
RD-29	SMRD-29-GW083110	Pu-239/240	Suspended	-0.0066 U L	0.032	0.0054	0.013
RD-29	SMRD-29-GW083110	Pu-239/240	Total	0.002	NA	0.0095	NA
RD-29	SMRD-29-GW083110	Pu-242	Filtered	-0.0007 U	0.036	0.0063	0.013
RD-29	SMRD-29-GW083110	Pu-242	Suspended	-0.0097 U	0.046	0.0099	0.021
RD-29	SMRD-29-GW083110	Pu-242	Total	-0.01	NA	0.012	NA
RD-29	SMRD-29-GW083110	Ra-226	Filtered	0.316	0.17	0.075	0.088

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW083110	Ra-226	Suspended	0.06	0.09	0.03	0.047
RD-29	SMRD-29-GW083110	Ra-226	Total	0.376	NA	0.08	NA
RD-29	SMRD-29-GW083110	Sb-125	Filtered	-0.5 U	14	4	6.6
RD-29	SMRD-29-GW083110	Sb-125	Suspended	-0.7 U	5.9	1.7	2.9
RD-29	SMRD-29-GW083110	Sb-125	Total	-1.1	NA	4.4	NA
RD-29	SMRD-29-GW083110	Sn-126	Filtered	0.06 U	1.2	0.35	0.58
RD-29	SMRD-29-GW083110	Sn-126	Suspended	0.2 U	0.75	0.22	0.36
RD-29	SMRD-29-GW083110	Sn-126	Total	0.26	NA	0.42	NA
RD-29	SMRD-29-GW083110	Sr-90	Filtered	0.109	0.11	0.035	0.063
RD-29	SMRD-29-GW083110	Sr-90	Suspended	-0.069 U	0.16	0.041	0.094
RD-29	SMRD-29-GW083110	Sr-90	Total	0.04	NA	0.054	NA
RD-29	SMRD-29-GW083110	Tc-99	Filtered	-0.14 U	1.5	0.45	0.74
RD-29	SMRD-29-GW083110	Tc-99	Suspended	-0.13 U	1.4	0.42	0.69
RD-29	SMRD-29-GW083110	Tc-99	Total	-0.27	NA	0.61	NA
RD-29	SMRD-29-GW083110	Te-125m	Filtered	-0.1 U	3.1	0.92	1.5
RD-29	SMRD-29-GW083110	Te-125m	Suspended	-0.15 U	1.4	0.4	0.66
RD-29	SMRD-29-GW083110	Te-125m	Total	-1	NA	4.1	NA
RD-29	SMRD-29-GW083110	Th-231	Filtered	0.476	0.055	0.063	0.021
RD-29	SMRD-29-GW083110	Th-231	Suspended	0	0.01	0	0
RD-29	SMRD-29-GW083110	Th-231	Total	0.476	NA	0.063	NA
RD-29	SMRD-29-GW083110	Th-234	Filtered	-2.6 U	24	7.8	12
RD-29	SMRD-29-GW083110	Th-234	Suspended	-9.2 U	8.9	5.8	4.4
RD-29	SMRD-29-GW083110	Th-234	Total	-1.9	NA	8.3	NA
RD-29	SMRD-29-GW083110	Tl-208	Filtered	-0.7 U	1.7	1.2	0.8
RD-29	SMRD-29-GW083110	Tl-208	Suspended	0.36 U	0.8	0.27	0.38
RD-29	SMRD-29-GW083110	Tl-208	Total	-0.5	NA	1.2	NA
RD-29	SMRD-29-GW083110	Tm-171	Filtered	-50 U	340	100	170
RD-29	SMRD-29-GW083110	Tm-171	Suspended	3 U	120	35	57
RD-29	SMRD-29-GW083110	Tm-171	Total	-40	NA	110	NA
RD-29	SMRD-29-GW083110	U-233/234	Filtered	9.49	0.05	0.46	0.02
RD-29	SMRD-29-GW083110	U-233/234	Suspended	0.051	0.023	0.017	0.005
RD-29	SMRD-29-GW083110	U-233/234	Total	9.54	NA	0.46	NA
RD-29	SMRD-29-GW083110	U-235/236	Filtered	0.476	0.055	0.063	0.021
RD-29	SMRD-29-GW083110	U-235/236	Suspended	0	0.01	0	0
RD-29	SMRD-29-GW083110	U-235/236	Total	0.476	NA	0.063	NA
RD-29	SMRD-29-GW083110	U-238	Filtered	9.63	0.04	0.47	0.01
RD-29	SMRD-29-GW083110	U-238	Suspended	0.032	0.03	0.015	0.009
RD-29	SMRD-29-GW083110	U-238	Total	9.66	NA	0.47	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW081810	Ac-227	Filtered	-6.6 U	12	3.8	6
RD-33A	SMRD-33A-GW081810	Ac-227	Suspended	0.09 U	3.8	1.1	1.8
RD-33A	SMRD-33A-GW081810	Ac-227	Total	-6.5	NA	3.9	NA
RD-33A	SMRD-33A-GW081810	Ac-228	Filtered	3.8	4.7	1.5	2.2
RD-33A	SMRD-33A-GW081810	Ac-228	Suspended	1.74	2.2	0.69	1
RD-33A	SMRD-33A-GW081810	Ac-228	Total	5.6	NA	1.6	NA
RD-33A	SMRD-33A-GW081810	Ag-108	Filtered	0.02 U R	0.11	0.034	0.055
RD-33A	SMRD-33A-GW081810	Ag-108	Suspended	0.011 U R	0.048	0.014	0.023
RD-33A	SMRD-33A-GW081810	Ag-108	Total	0.32 R	NA	0.37	NA
RD-33A	SMRD-33A-GW081810	Ag-108m	Filtered	0.21 U R	1.2	0.36	0.59
RD-33A	SMRD-33A-GW081810	Ag-108m	Suspended	0.12 U R	0.52	0.15	0.25
RD-33A	SMRD-33A-GW081810	Ag-108m	Total	0.34 R	NA	0.39	NA
RD-33A	SMRD-33A-GW081810	Ba-133	Filtered	3.8 U R	14	4.3	6.9
RD-33A	SMRD-33A-GW081810	Ba-133	Suspended	2.1 U R	5.2	1.6	2.5
RD-33A	SMRD-33A-GW081810	Ba-133	Total	5.8 R	NA	4.6	NA
RD-33A	SMRD-33A-GW081810	Ba-137m	Filtered	-0.29 U	1.5	0.44	0.71
RD-33A	SMRD-33A-GW081810	Ba-137m	Suspended	0.13 U	0.59	0.17	0.28
RD-33A	SMRD-33A-GW081810	Ba-137m	Total	-0.16	NA	0.47	NA
RD-33A	SMRD-33A-GW081810	Bi-212	Filtered	6.2	11	3.2	5
RD-33A	SMRD-33A-GW081810	Bi-212	Suspended	2.3 U	5.3	1.6	2.5
RD-33A	SMRD-33A-GW081810	Bi-212	Total	8.5	NA	3.6	NA
RD-33A	SMRD-33A-GW081810	Bi-214	Filtered	0.03 U	3.6	0.95	1.7
RD-33A	SMRD-33A-GW081810	Bi-214	Suspended	1.09	1.7	0.65	0.83
RD-33A	SMRD-33A-GW081810	Bi-214	Total	1.1	NA	1.2	NA
RD-33A	SMRD-33A-GW081810	Cd-113m	Filtered	1000 U	19000	5700	9300
RD-33A	SMRD-33A-GW081810	Cd-113m	Suspended	-300 U	6800	2000	3300
RD-33A	SMRD-33A-GW081810	Cd-113m	Total	700	NA	6000	NA
RD-33A	SMRD-33A-GW081810	Cf-249	Filtered	-0.02 U R	6.2	1.8	3
RD-33A	SMRD-33A-GW081810	Cf-249	Suspended	0 U R	3.4	1	1.7
RD-33A	SMRD-33A-GW081810	Cf-249	Total	-0.02 R	NA	2.1	NA
RD-33A	SMRD-33A-GW081810	Co-60	Filtered	0.66	1.4	0.43	0.66
RD-33A	SMRD-33A-GW081810	Co-60	Suspended	0 U	1	0.3	0.49
RD-33A	SMRD-33A-GW081810	Co-60	Total	0.66	NA	0.52	NA
RD-33A	SMRD-33A-GW081810	Cs-134	Filtered	0.04 U	1.6	0.48	0.79
RD-33A	SMRD-33A-GW081810	Cs-134	Suspended	-0.17 U	0.75	0.22	0.36
RD-33A	SMRD-33A-GW081810	Cs-134	Total	-0.13	NA	0.53	NA
RD-33A	SMRD-33A-GW081810	Cs-137	Filtered	-0.31 U	1.6	0.46	0.75
RD-33A	SMRD-33A-GW081810	Cs-137	Suspended	0.14 U	0.62	0.18	0.3

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW081810	Cs-137	Total	-0.17	NA	0.5	NA
RD-33A	SMRD-33A-GW081810	Eu-152	Filtered	0.2 U	4.1	1.2	2
RD-33A	SMRD-33A-GW081810	Eu-152	Suspended	-0.16 U	1.7	0.51	0.83
RD-33A	SMRD-33A-GW081810	Eu-152	Total	0.04	NA	1.3	NA
RD-33A	SMRD-33A-GW081810	Eu-154	Filtered	-0.02 U	12	3.5	5.7
RD-33A	SMRD-33A-GW081810	Eu-154	Suspended	-1.2 U	5.9	1.7	2.8
RD-33A	SMRD-33A-GW081810	Eu-154	Total	-1.2	NA	3.9	NA
RD-33A	SMRD-33A-GW081810	Eu-155	Filtered	1.5 U	4	1.2	2
RD-33A	SMRD-33A-GW081810	Eu-155	Suspended	-0.15 U	1.1	0.34	0.56
RD-33A	SMRD-33A-GW081810	Eu-155	Total	1.4	NA	1.3	NA
RD-33A	SMRD-33A-GW081810	gross_beta	Filtered	4.64	1.8	0.74	1.1
RD-33A	SMRD-33A-GW081810	gross_beta	Suspended	0.33 U	0.67	0.2	0.39
RD-33A	SMRD-33A-GW081810	gross_beta	Total	4.98	NA	0.77	NA
RD-33A	SMRD-33A-GW081810	H-3	Filtered	30 U	150	43	70
RD-33A	SMRD-33A-GW081810	H-3	Suspended	-4.3 U R	23	6.7	11
RD-33A	SMRD-33A-GW081810	H-3	Total	26 R	NA	44	NA
RD-33A	SMRD-33A-GW081810	Ho-166m	Filtered	-0.74 U	2.5	0.75	1.2
RD-33A	SMRD-33A-GW081810	Ho-166m	Suspended	0.3 U	1	0.31	0.5
RD-33A	SMRD-33A-GW081810	Ho-166m	Total	-0.44	NA	0.81	NA
RD-33A	SMRD-33A-GW081810	K-40	Filtered	13.7	19	7	9.2
RD-33A	SMRD-33A-GW081810	K-40	Suspended	2.2 U	11	3	5.4
RD-33A	SMRD-33A-GW081810	K-40	Total	15.9	NA	7.6	NA
RD-33A	SMRD-33A-GW081810	Na-22	Filtered	0.22 U	1.3	0.37	0.6
RD-33A	SMRD-33A-GW081810	Na-22	Suspended	-0.13 U	0.74	0.22	0.35
RD-33A	SMRD-33A-GW081810	Na-22	Total	0.08	NA	0.43	NA
RD-33A	SMRD-33A-GW081810	Nb-94	Filtered	0.5 U	1.2	0.36	0.56
RD-33A	SMRD-33A-GW081810	Nb-94	Suspended	0.08 U	0.63	0.19	0.3
RD-33A	SMRD-33A-GW081810	Nb-94	Total	0.57	NA	0.4	NA
RD-33A	SMRD-33A-GW081810	Np-236	Filtered	-0.02 U	3.5	1	1.7
RD-33A	SMRD-33A-GW081810	Np-236	Suspended	-0.09 U	1.2	0.36	0.58
RD-33A	SMRD-33A-GW081810	Np-236	Total	-0.1	NA	1.1	NA
RD-33A	SMRD-33A-GW081810	Np-239	Filtered	-1.6 U	9.7	2.9	4.8
RD-33A	SMRD-33A-GW081810	Np-239	Suspended	0.89 U	3.3	0.99	1.6
RD-33A	SMRD-33A-GW081810	Np-239	Total	-0.7	NA	3.1	NA
RD-33A	SMRD-33A-GW081810	Pa-231	Filtered	-12 U	73	22	36
RD-33A	SMRD-33A-GW081810	Pa-231	Suspended	-2.7 U	24	7.1	12
RD-33A	SMRD-33A-GW081810	Pa-231	Total	-15	NA	23	NA
RD-33A	SMRD-33A-GW081810	Pb-212	Filtered	2.4	3.2	1.3	1.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW081810	Pb-212	Suspended	0.01 U	1.1	0.33	0.52
RD-33A	SMRD-33A-GW081810	Pb-212	Total	2.4	NA	1.3	NA
RD-33A	SMRD-33A-GW081810	Pb-214	Filtered	4.27	2.8	0.92	1.4
RD-33A	SMRD-33A-GW081810	Pb-214	Suspended	-0.57 U	1.4	0.64	0.7
RD-33A	SMRD-33A-GW081810	Pb-214	Total	3.7	NA	1.1	NA
RD-33A	SMRD-33A-GW081810	Sb-125	Filtered	0.8 U	16	4.7	7.8
RD-33A	SMRD-33A-GW081810	Sb-125	Suspended	0.8 U	5.7	1.7	2.8
RD-33A	SMRD-33A-GW081810	Sb-125	Total	1.6	NA	5	NA
RD-33A	SMRD-33A-GW081810	Sn-126	Filtered	0.13 U	1.4	0.42	0.69
RD-33A	SMRD-33A-GW081810	Sn-126	Suspended	0.25 U	0.72	0.21	0.34
RD-33A	SMRD-33A-GW081810	Sn-126	Total	0.38	NA	0.47	NA
RD-33A	SMRD-33A-GW081810	Sr-90	Filtered	-0.03 U	0.24	0.067	0.14
RD-33A	SMRD-33A-GW081810	Sr-90	Suspended	-0.005 U	0.19	0.054	0.12
RD-33A	SMRD-33A-GW081810	Sr-90	Total	-0.035	NA	0.086	NA
RD-33A	SMRD-33A-GW081810	Te-125m	Filtered	0.2 U	3.7	1.1	1.8
RD-33A	SMRD-33A-GW081810	Te-125m	Suspended	0.19 U	1.3	0.39	0.64
RD-33A	SMRD-33A-GW081810	Te-125m	Total	1.5	NA	4.8	NA
RD-33A	SMRD-33A-GW081810	Th-231	Filtered	0.031	0.048	0.017	0.019
RD-33A	SMRD-33A-GW081810	Th-231	Suspended	-0.0069 U	0.042	0.009	0.013
RD-33A	SMRD-33A-GW081810	Th-231	Total	0.024	NA	0.019	NA
RD-33A	SMRD-33A-GW081810	Th-234	Filtered	1.4 U	24	7.2	12
RD-33A	SMRD-33A-GW081810	Th-234	Suspended	2.3 U	8.7	2.7	4.3
RD-33A	SMRD-33A-GW081810	Th-234	Total	3.6	NA	7.7	NA
RD-33A	SMRD-33A-GW081810	Tl-208	Filtered	0.75	1.6	0.53	0.75
RD-33A	SMRD-33A-GW081810	Tl-208	Suspended	0.09 U	0.77	0.27	0.37
RD-33A	SMRD-33A-GW081810	Tl-208	Total	0.84	NA	0.59	NA
RD-33A	SMRD-33A-GW081810	Tm-171	Filtered	230	450	140	220
RD-33A	SMRD-33A-GW081810	Tm-171	Suspended	1 U	120	35	58
RD-33A	SMRD-33A-GW081810	Tm-171	Total	230	NA	140	NA
RD-33A	SMRD-33A-GW081810	U-233/234	Filtered	1.61	0.07	0.11	0.03
RD-33A	SMRD-33A-GW081810	U-233/234	Suspended	0.004 U	0.034	0.011	0.01
RD-33A	SMRD-33A-GW081810	U-233/234	Total	1.61	NA	0.11	NA
RD-33A	SMRD-33A-GW081810	U-235/236	Filtered	0.031	0.048	0.017	0.019
RD-33A	SMRD-33A-GW081810	U-235/236	Suspended	-0.0069 U	0.042	0.009	0.013
RD-33A	SMRD-33A-GW081810	U-235/236	Total	0.024	NA	0.019	NA
RD-33A	SMRD-33A-GW081810	U-238	Filtered	1.17	0.047	0.091	0.021
RD-33A	SMRD-33A-GW081810	U-238	Suspended	0.0036 U	0.03	0.0096	0.0082
RD-33A	SMRD-33A-GW081810	U-238	Total	1.18	NA	0.091	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW090210	Ac-227	Filtered	0.3 U	8.7	2.5	4.2
RD-33B	SMRD-33B-GW090210	Ac-227	Suspended	0.09 U	3.2	0.93	1.5
RD-33B	SMRD-33B-GW090210	Ac-227	Total	0.3	NA	2.7	NA
RD-33B	SMRD-33B-GW090210	Ac-228	Filtered	7.5	5.1	1.8	2.4
RD-33B	SMRD-33B-GW090210	Ac-228	Suspended	1.06	2.2	0.66	1
RD-33B	SMRD-33B-GW090210	Ac-228	Total	8.6	NA	1.9	NA
RD-33B	SMRD-33B-GW090210	Ag-108	Filtered	0.019 U R	0.11	0.033	0.053
RD-33B	SMRD-33B-GW090210	Ag-108	Suspended	0.01 U R	0.045	0.013	0.021
RD-33B	SMRD-33B-GW090210	Ag-108	Total	0.29 R	NA	0.36	NA
RD-33B	SMRD-33B-GW090210	Ag-108m	Filtered	0.2 U R	1.2	0.35	0.57
RD-33B	SMRD-33B-GW090210	Ag-108m	Suspended	0.11 U R	0.48	0.14	0.23
RD-33B	SMRD-33B-GW090210	Ag-108m	Total	0.31 R	NA	0.38	NA
RD-33B	SMRD-33B-GW090210	Am-241	Filtered	0.023	0.047	0.015	0.02
RD-33B	SMRD-33B-GW090210	Am-241	Suspended	0.0101 U	0.037	0.0099	0.013
RD-33B	SMRD-33B-GW090210	Am-241	Total	0.033	NA	0.018	NA
RD-33B	SMRD-33B-GW090210	Ba-133	Filtered	2.8 U R	13	3.8	6.1
RD-33B	SMRD-33B-GW090210	Ba-133	Suspended	2.5 R	5.1	1.6	2.5
RD-33B	SMRD-33B-GW090210	Ba-133	Total	5.3 R	NA	4.1	NA
RD-33B	SMRD-33B-GW090210	Ba-137m	Filtered	0.16 U	1.5	0.43	0.71
RD-33B	SMRD-33B-GW090210	Ba-137m	Suspended	-0.17 U	0.63	0.19	0.29
RD-33B	SMRD-33B-GW090210	Ba-137m	Total	-0.02	NA	0.47	NA
RD-33B	SMRD-33B-GW090210	Bi-212	Filtered	0 U	13	3.8	6.2
RD-33B	SMRD-33B-GW090210	Bi-212	Suspended	0.08 U	4.1	1.2	1.9
RD-33B	SMRD-33B-GW090210	Bi-212	Total	0.08	NA	4	NA
RD-33B	SMRD-33B-GW090210	Bi-214	Filtered	-2.2 U	3.6	3.2	1.7
RD-33B	SMRD-33B-GW090210	Bi-214	Suspended	1.36	1.4	0.56	0.69
RD-33B	SMRD-33B-GW090210	Bi-214	Total	-0.9	NA	3.3	NA
RD-33B	SMRD-33B-GW090210	C-14	Filtered	0.57 U	2.2	0.67	1.1
RD-33B	SMRD-33B-GW090210	C-14	Suspended	2.73 R	2.3	0.73	1.1
RD-33B	SMRD-33B-GW090210	C-14	Total	3.31 R	NA	0.99	NA
RD-33B	SMRD-33B-GW090210	Cd-113m	Filtered	2200 U	16000	4600	7500
RD-33B	SMRD-33B-GW090210	Cd-113m	Suspended	1300 U	5800	1700	2800
RD-33B	SMRD-33B-GW090210	Cd-113m	Total	3400	NA	4900	NA
RD-33B	SMRD-33B-GW090210	Cf-249	Filtered	-0.03 U R	5.1	1.5	2.4
RD-33B	SMRD-33B-GW090210	Cf-249	Suspended	-0.66 U R	2.9	0.85	1.4
RD-33B	SMRD-33B-GW090210	Cf-249	Total	-0.7 R	NA	1.7	NA
RD-33B	SMRD-33B-GW090210	Cm-243/244	Filtered	0.025 U	0.081	0.023	0.04
RD-33B	SMRD-33B-GW090210	Cm-243/244	Suspended	0.024 U	0.1	0.029	0.054

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW090210	Cm-243/244	Total	0.048	NA	0.038	NA
RD-33B	SMRD-33B-GW090210	Cm-245/246	Filtered	0.028	0.023	0.01	0.008
RD-33B	SMRD-33B-GW090210	Cm-245/246	Suspended	0.017	0.033	0.01	0.014
RD-33B	SMRD-33B-GW090210	Cm-245/246	Total	0.045	NA	0.014	NA
RD-33B	SMRD-33B-GW090210	Co-60	Filtered	-0.23 U	1.6	0.45	0.71
RD-33B	SMRD-33B-GW090210	Co-60	Suspended	-0.0001 U	0.66	0.18	0.3
RD-33B	SMRD-33B-GW090210	Co-60	Total	-0.23	NA	0.48	NA
RD-33B	SMRD-33B-GW090210	Cs-134	Filtered	0.55 U	1.4	0.43	0.68
RD-33B	SMRD-33B-GW090210	Cs-134	Suspended	0.006 U	0.49	0.14	0.23
RD-33B	SMRD-33B-GW090210	Cs-134	Total	0.55	NA	0.45	NA
RD-33B	SMRD-33B-GW090210	Cs-137	Filtered	0.17 U	1.6	0.46	0.75
RD-33B	SMRD-33B-GW090210	Cs-137	Suspended	-0.18 U	0.66	0.2	0.31
RD-33B	SMRD-33B-GW090210	Cs-137	Total	-0.02	NA	0.5	NA
RD-33B	SMRD-33B-GW090210	Eu-152	Filtered	0.02 U	2.9	0.84	1.4
RD-33B	SMRD-33B-GW090210	Eu-152	Suspended	0.31 U	1.4	0.42	0.68
RD-33B	SMRD-33B-GW090210	Eu-152	Total	0.33	NA	0.94	NA
RD-33B	SMRD-33B-GW090210	Eu-154	Filtered	0.1 U	12	3.4	5.7
RD-33B	SMRD-33B-GW090210	Eu-154	Suspended	-1 U	5.4	1.6	2.5
RD-33B	SMRD-33B-GW090210	Eu-154	Total	-0.8	NA	3.8	NA
RD-33B	SMRD-33B-GW090210	Eu-155	Filtered	0.44 U	2.9	0.87	1.4
RD-33B	SMRD-33B-GW090210	Eu-155	Suspended	0.24 U	1	0.3	0.49
RD-33B	SMRD-33B-GW090210	Eu-155	Total	0.68	NA	0.92	NA
RD-33B	SMRD-33B-GW090210	gross_alpha	Filtered	3.64	0.48	0.41	0.25
RD-33B	SMRD-33B-GW090210	gross_alpha	Suspended	1.37	0.64	0.29	0.35
RD-33B	SMRD-33B-GW090210	gross_alpha	Total	1.59	NA	0.33	NA
RD-33B	SMRD-33B-GW090210	gross_beta	Filtered	7.03	2.2	0.93	1.3
RD-33B	SMRD-33B-GW090210	gross_beta	Suspended	0.3 U	0.77	0.23	0.46
RD-33B	SMRD-33B-GW090210	gross_beta	Total	7.33	NA	0.96	NA
RD-33B	SMRD-33B-GW090210	H-3	Filtered	-32 U	140	41	68
RD-33B	SMRD-33B-GW090210	H-3	Suspended	4.6 U R	18	5.6	8.7
RD-33B	SMRD-33B-GW090210	H-3	Total	-28 R	NA	41	NA
RD-33B	SMRD-33B-GW090210	Ho-166m	Filtered	-0.46 U	2.6	0.75	1.2
RD-33B	SMRD-33B-GW090210	Ho-166m	Suspended	0.11 U	0.86	0.25	0.4
RD-33B	SMRD-33B-GW090210	Ho-166m	Total	-0.35	NA	0.79	NA
RD-33B	SMRD-33B-GW090210	I-129	Filtered	0.09 U	0.43	0.13	0.21
RD-33B	SMRD-33B-GW090210	I-129	Suspended	0.09 U	0.5	0.15	0.25
RD-33B	SMRD-33B-GW090210	I-129	Total	0.18	NA	0.2	NA
RD-33B	SMRD-33B-GW090210	K-40	Filtered	-23 U	26	35	12

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW090210	K-40	Suspended	3.7 U	8.8	2.5	4.1
RD-33B	SMRD-33B-GW090210	K-40	Total	-19	NA	35	NA
RD-33B	SMRD-33B-GW090210	Na-22	Filtered	0.03 U	1.6	0.45	0.75
RD-33B	SMRD-33B-GW090210	Na-22	Suspended	0.03 U	0.72	0.2	0.33
RD-33B	SMRD-33B-GW090210	Na-22	Total	0.07	NA	0.5	NA
RD-33B	SMRD-33B-GW090210	Nb-94	Filtered	0.04 U	1.4	0.4	0.66
RD-33B	SMRD-33B-GW090210	Nb-94	Suspended	0.21 U	0.59	0.18	0.28
RD-33B	SMRD-33B-GW090210	Nb-94	Total	0.25	NA	0.44	NA
RD-33B	SMRD-33B-GW090210	Np-236	Filtered	-0.55 U	2.7	0.81	1.3
RD-33B	SMRD-33B-GW090210	Np-236	Suspended	-0.32 U	1.1	0.32	0.52
RD-33B	SMRD-33B-GW090210	Np-236	Total	-0.87	NA	0.87	NA
RD-33B	SMRD-33B-GW090210	Np-237	Suspended	0.0067 R	0.009	0.0047	0.0055
RD-33B	SMRD-33B-GW090210	Np-237	Total	0.0101	NA	0.0075	NA
RD-33B	SMRD-33B-GW090210	Np-239	Filtered	-0.2 U	7.9	2.3	3.8
RD-33B	SMRD-33B-GW090210	Np-239	Suspended	-1 U	3.4	1	1.6
RD-33B	SMRD-33B-GW090210	Np-239	Total	-1.2	NA	2.5	NA
RD-33B	SMRD-33B-GW090210	Pa-231	Filtered	18 U	55	16	26
RD-33B	SMRD-33B-GW090210	Pa-231	Suspended	5.3 U	23	6.8	11
RD-33B	SMRD-33B-GW090210	Pa-231	Total	23	NA	18	NA
RD-33B	SMRD-33B-GW090210	Pb-212	Filtered	0.676 U	2.5	0.996	1.2
RD-33B	SMRD-33B-GW090210	Pb-212	Suspended	0.32 U	0.93	0.34	0.45
RD-33B	SMRD-33B-GW090210	Pb-212	Total	1	NA	1	NA
RD-33B	SMRD-33B-GW090210	Pb-214	Filtered	4.9	2.1	1.1	1
RD-33B	SMRD-33B-GW090210	Pb-214	Suspended	1.49	0.81	0.34	0.38
RD-33B	SMRD-33B-GW090210	Pb-214	Total	6.4	NA	1.2	NA
RD-33B	SMRD-33B-GW090210	Pu-238	Filtered	0.003 U	0.048	0.011	0.021
RD-33B	SMRD-33B-GW090210	Pu-238	Suspended	0.059	0.048	0.018	0.022
RD-33B	SMRD-33B-GW090210	Pu-238	Total	0.062	NA	0.021	NA
RD-33B	SMRD-33B-GW090210	Pu-239/240	Filtered	-0.0018 U	0.025	0.0018	0.0069
RD-33B	SMRD-33B-GW090210	Pu-239/240	Suspended	-0.0059 U	0.028	0.0048	0.011
RD-33B	SMRD-33B-GW090210	Pu-239/240	Total	-0.0077	NA	0.0051	NA
RD-33B	SMRD-33B-GW090210	Pu-242	Filtered	0.0012 U	0.029	0.0055	0.0098
RD-33B	SMRD-33B-GW090210	Pu-242	Suspended	-0.0038 U	0.032	0.0066	0.013
RD-33B	SMRD-33B-GW090210	Pu-242	Total	-0.0026	NA	0.0086	NA
RD-33B	SMRD-33B-GW090210	Ra-226	Filtered	1.22	0.17	0.14	0.09
RD-33B	SMRD-33B-GW090210	Ra-226	Suspended	0.166	0.075	0.038	0.037
RD-33B	SMRD-33B-GW090210	Ra-226	Total	1.39	NA	0.14	NA
RD-33B	SMRD-33B-GW090210	Sb-125	Filtered	-2.5 U	14	4.1	6.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW090210	Sb-125	Suspended	1.5 U	4.3	1.3	2.1
RD-33B	SMRD-33B-GW090210	Sb-125	Total	-1	NA	4.3	NA
RD-33B	SMRD-33B-GW090210	Sn-126	Filtered	-0.05 U	1.3	0.38	0.62
RD-33B	SMRD-33B-GW090210	Sn-126	Suspended	0.003 U	0.73	0.21	0.35
RD-33B	SMRD-33B-GW090210	Sn-126	Total	-0.04	NA	0.43	NA
RD-33B	SMRD-33B-GW090210	Sr-90	Filtered	-0.041 U	0.21	0.058	0.13
RD-33B	SMRD-33B-GW090210	Sr-90	Suspended	0.048 U	0.17	0.05	0.1
RD-33B	SMRD-33B-GW090210	Sr-90	Total	0.007	NA	0.076	NA
RD-33B	SMRD-33B-GW090210	Tc-99	Filtered	-0.33 U	1.8	0.53	0.89
RD-33B	SMRD-33B-GW090210	Tc-99	Suspended	-0.05 U	1.3	0.38	0.63
RD-33B	SMRD-33B-GW090210	Tc-99	Total	-0.38	NA	0.66	NA
RD-33B	SMRD-33B-GW090210	Te-125m	Filtered	-0.57 U	3.2	0.94	1.5
RD-33B	SMRD-33B-GW090210	Te-125m	Suspended	0.35 U	1	0.3	0.48
RD-33B	SMRD-33B-GW090210	Te-125m	Total	-0.9	NA	4	NA
RD-33B	SMRD-33B-GW090210	Th-231	Filtered	0.0037 U	0.03	0.0063	0.0084
RD-33B	SMRD-33B-GW090210	Th-231	Suspended	0.0039 U	0.032	0.0074	0.0074
RD-33B	SMRD-33B-GW090210	Th-231	Total	0.0076	NA	0.0097	NA
RD-33B	SMRD-33B-GW090210	Th-234	Filtered	-9.54 U	24	9.98	12
RD-33B	SMRD-33B-GW090210	Th-234	Suspended	-0.3 U	7.6	2.7	3.7
RD-33B	SMRD-33B-GW090210	Th-234	Total	-10	NA	10	NA
RD-33B	SMRD-33B-GW090210	Tl-208	Filtered	-1 U	2	15	0.8
RD-33B	SMRD-33B-GW090210	Tl-208	Suspended	-1 U	0.9	1.2	0.4
RD-33B	SMRD-33B-GW090210	Tl-208	Total	-2	NA	15	NA
RD-33B	SMRD-33B-GW090210	Tm-171	Filtered	66.8 U	330	100	160
RD-33B	SMRD-33B-GW090210	Tm-171	Suspended	-26 U	97	29	47
RD-33B	SMRD-33B-GW090210	Tm-171	Total	40	NA	100	NA
RD-33B	SMRD-33B-GW090210	U-233/234	Filtered	0.214	0.029	0.034	0.01
RD-33B	SMRD-33B-GW090210	U-233/234	Suspended	-0.003 U	0.045	0.013	0.016
RD-33B	SMRD-33B-GW090210	U-233/234	Total	0.211	NA	0.037	NA
RD-33B	SMRD-33B-GW090210	U-235/236	Filtered	0.0037 U	0.03	0.0063	0.0084
RD-33B	SMRD-33B-GW090210	U-235/236	Suspended	0.0039 U	0.032	0.0074	0.0074
RD-33B	SMRD-33B-GW090210	U-235/236	Total	0.0076	NA	0.0097	NA
RD-33B	SMRD-33B-GW090210	U-238	Filtered	0.101	0.013	0.023	0.007
RD-33B	SMRD-33B-GW090210	U-238	Suspended	-0.0047 U	0.037	0.0094	0.012
RD-33B	SMRD-33B-GW090210	U-238	Total	0.096	NA	0.025	NA
RD-33C	SMRD-033C-GW090310	Ac-227	Filtered	-2.8 U	11	3.2	5.2
RD-33C	SMRD-033C-GW090310	Ac-227	Suspended	-3.4 L U	4.8	1.5	2.4
RD-33C	SMRD-033C-GW090310	Ac-227	Total	-6.1	NA	3.6	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-033C-GW090310	Ac-228	Filtered	5 B	5.1	1.7	2.3
RD-33C	SMRD-033C-GW090310	Ac-228	Suspended	0.52 U	2.4	0.71	1.1
RD-33C	SMRD-033C-GW090310	Ac-228	Total	5.5 B	NA	1.8	NA
RD-33C	SMRD-033C-GW090310	Ag-108	Filtered	0 U R	0.12	0.035	0.057
RD-33C	SMRD-033C-GW090310	Ag-108	Suspended	-0.007 U R	0.054	0.016	0.026
RD-33C	SMRD-033C-GW090310	Ag-108	Total	-0.007 R	NA	0.038	NA
RD-33C	SMRD-033C-GW090310	Ag-108m	Filtered	0 U R	1.3	0.37	0.62
RD-33C	SMRD-033C-GW090310	Ag-108m	Suspended	-0.08 U R	0.58	0.17	0.28
RD-33C	SMRD-033C-GW090310	Ag-108m	Total	-0.08 R	NA	0.41	NA
RD-33C	SMRD-033C-GW090310	Ba-133	Filtered	0.06 U R	14	4.1	6.7
RD-33C	SMRD-033C-GW090310	Ba-133	Suspended	2.2 U R	6.1	1.8	3
RD-33C	SMRD-033C-GW090310	Ba-133	Total	2.3 R	NA	4.5	NA
RD-33C	SMRD-033C-GW090310	Ba-137m	Filtered	0.26 U	1.4	0.41	0.65
RD-33C	SMRD-033C-GW090310	Ba-137m	Suspended	0.02 U	0.69	0.2	0.33
RD-33C	SMRD-033C-GW090310	Ba-137m	Total	0.29	NA	0.45	NA
RD-33C	SMRD-033C-GW090310	Bi-212	Filtered	0.9 U	13	3.7	6.1
RD-33C	SMRD-033C-GW090310	Bi-212	Suspended	3 U	6.5	2	3.1
RD-33C	SMRD-033C-GW090310	Bi-212	Total	3.9	NA	4.2	NA
RD-33C	SMRD-033C-GW090310	Bi-214	Filtered	2.8	3.2	1	1.5
RD-33C	SMRD-033C-GW090310	Bi-214	Suspended	1.07	1.7	0.59	0.8
RD-33C	SMRD-033C-GW090310	Bi-214	Total	3.9	NA	1.2	NA
RD-33C	SMRD-033C-GW090310	Cd-113m	Filtered	1900 U	12000	3500	5700
RD-33C	SMRD-033C-GW090310	Cd-113m	Suspended	200 U	7400	2200	3600
RD-33C	SMRD-033C-GW090310	Cd-113m	Total	2100	NA	4100	NA
RD-33C	SMRD-033C-GW090310	Cf-249	Filtered	-2.2 U R	6.6	2	3.2
RD-33C	SMRD-033C-GW090310	Cf-249	Suspended	-0.12 U B	3.3	0.96	1.6
RD-33C	SMRD-033C-GW090310	Cf-249	Total	-2.4 B R	NA	2.2	NA
RD-33C	SMRD-033C-GW090310	Co-60	Filtered	0.51 U	1.6	0.47	0.72
RD-33C	SMRD-033C-GW090310	Co-60	Suspended	0.17 U	0.8	0.23	0.37
RD-33C	SMRD-033C-GW090310	Co-60	Total	0.68	NA	0.53	NA
RD-33C	SMRD-033C-GW090310	Cs-134	Filtered	0.71 SK	1.3	0.4	0.6
RD-33C	SMRD-033C-GW090310	Cs-134	Suspended	-0.02 U	1.2	0.36	0.59
RD-33C	SMRD-033C-GW090310	Cs-134	Total	0.68	NA	0.53	NA
RD-33C	SMRD-033C-GW090310	Cs-137	Filtered	0.28 U	1.5	0.43	0.69
RD-33C	SMRD-033C-GW090310	Cs-137	Suspended	0.02 U	0.73	0.21	0.35
RD-33C	SMRD-033C-GW090310	Cs-137	Total	0.3	NA	0.48	NA
RD-33C	SMRD-033C-GW090310	Eu-152	Filtered	0.6 U	3.7	1.1	1.8
RD-33C	SMRD-033C-GW090310	Eu-152	Suspended	0.74 U	1.8	0.56	0.89

Table D.1
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Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-033C-GW090310	Eu-152	Total	1.3	NA	1.2	NA
RD-33C	SMRD-033C-GW090310	Eu-154	Filtered	-0.8 U	11	3.2	5.2
RD-33C	SMRD-033C-GW090310	Eu-154	Suspended	-0.04 U	5.3	1.5	2.5
RD-33C	SMRD-033C-GW090310	Eu-154	Total	-0.9	NA	3.6	NA
RD-33C	SMRD-033C-GW090310	Eu-155	Filtered	-1.4 U	3.4	1	1.7
RD-33C	SMRD-033C-GW090310	Eu-155	Suspended	-0.02 U	1.3	0.38	0.63
RD-33C	SMRD-033C-GW090310	Eu-155	Total	-1.4	NA	1.1	NA
RD-33C	SMRD-033C-GW090310	gross_alpha	Filtered	4.81	0.57	0.5	0.3
RD-33C	SMRD-033C-GW090310	gross_alpha	Suspended	1.8	0.61	0.32	0.32
RD-33C	SMRD-033C-GW090310	gross_alpha	Total	6.61	NA	0.6	NA
RD-33C	SMRD-033C-GW090310	gross_beta	Filtered	4.63	1.1	0.54	0.64
RD-33C	SMRD-033C-GW090310	gross_beta	Suspended	0.63	0.76	0.25	0.45
RD-33C	SMRD-033C-GW090310	gross_beta	Total	5.25	NA	0.59	NA
RD-33C	SMRD-033C-GW090310	H-3	Filtered	-16 U	130	38	63
RD-33C	SMRD-033C-GW090310	H-3	Suspended	8.3 R	17	5.1	7.2
RD-33C	SMRD-033C-GW090310	H-3	Total	-7 R	NA	38	NA
RD-33C	SMRD-033C-GW090310	Ho-166m	Filtered	-0.03 U	2.1	0.59	0.97
RD-33C	SMRD-033C-GW090310	Ho-166m	Suspended	0.26 U	1.2	0.34	0.55
RD-33C	SMRD-033C-GW090310	Ho-166m	Total	0.23	NA	0.68	NA
RD-33C	SMRD-033C-GW090310	K-40	Filtered	-0.7 U	22	5	10
RD-33C	SMRD-033C-GW090310	K-40	Suspended	1.3 U	10	3	4.7
RD-33C	SMRD-033C-GW090310	K-40	Total	0.6	NA	5.8	NA
RD-33C	SMRD-033C-GW090310	Na-22	Filtered	0.43 U	1.7	0.48	0.74
RD-33C	SMRD-033C-GW090310	Na-22	Suspended	-0.09 U	0.91	0.26	0.43
RD-33C	SMRD-033C-GW090310	Na-22	Total	0.34	NA	0.55	NA
RD-33C	SMRD-033C-GW090310	Nb-94	Filtered	-0.01 U	1.3	0.38	0.63
RD-33C	SMRD-033C-GW090310	Nb-94	Suspended	-0.009 U	0.7	0.2	0.33
RD-33C	SMRD-033C-GW090310	Nb-94	Total	-0.02	NA	0.43	NA
RD-33C	SMRD-033C-GW090310	Np-236	Filtered	0.26 U	2.8	0.81	1.3
RD-33C	SMRD-033C-GW090310	Np-236	Suspended	-0.4 U	1.3	0.38	0.61
RD-33C	SMRD-033C-GW090310	Np-236	Total	-0.14	NA	0.9	NA
RD-33C	SMRD-033C-GW090310	Np-236a	Total	0 R	NA	0	NA
RD-33C	SMRD-033C-GW090310	Np-239	Filtered	-1.1 U	9.5	2.8	4.6
RD-33C	SMRD-033C-GW090310	Np-239	Suspended	0.4 U	4.1	1.2	2
RD-33C	SMRD-033C-GW090310	Np-239	Total	-0.7	NA	3.1	NA
RD-33C	SMRD-033C-GW090310	Pa-231	Filtered	9 U	63	19	30
RD-33C	SMRD-033C-GW090310	Pa-231	Suspended	3.5 U	28	8.4	14
RD-33C	SMRD-033C-GW090310	Pa-231	Total	13	NA	20	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-033C-GW090310	Pb-212	Filtered	1.18 U	2.9	0.93	1.4
RD-33C	SMRD-033C-GW090310	Pb-212	Suspended	0.69	1.2	0.4	0.59
RD-33C	SMRD-033C-GW090310	Pb-212	Total	1.9	NA	1	NA
RD-33C	SMRD-033C-GW090310	Pb-214	Filtered	1 U	3.7	1	1.8
RD-33C	SMRD-033C-GW090310	Pb-214	Suspended	0.68 U	1.5	0.53	0.71
RD-33C	SMRD-033C-GW090310	Pb-214	Total	1.7	NA	1.2	NA
RD-33C	SMRD-033C-GW090310	Sb-125	Filtered	-1.7 U	15	4.3	7
RD-33C	SMRD-033C-GW090310	Sb-125	Suspended	1.7 U	6.3	1.9	3.1
RD-33C	SMRD-033C-GW090310	Sb-125	Total	0.05	NA	4.7	NA
RD-33C	SMRD-033C-GW090310	Sn-126	Filtered	0.33 U	1.5	0.43	0.69
RD-33C	SMRD-033C-GW090310	Sn-126	Suspended	0.08 U	0.8	0.23	0.38
RD-33C	SMRD-033C-GW090310	Sn-126	Total	0.41	NA	0.49	NA
RD-33C	SMRD-033C-GW090310	Sr-90	Filtered	-0.005 U	0.11	0.033	0.065
RD-33C	SMRD-033C-GW090310	Sr-90	Suspended	-0.022 U	0.092	0.025	0.052
RD-33C	SMRD-033C-GW090310	Sr-90	Total	-0.028	NA	0.041	NA
RD-33C	SMRD-033C-GW090310	Te-125m	Filtered	-0.38 U	3.4	0.99	1.6
RD-33C	SMRD-033C-GW090310	Te-125m	Suspended	0.4 U	1.5	0.44	0.71
RD-33C	SMRD-033C-GW090310	Te-125m	Total	0.01	NA	1.1	NA
RD-33C	SMRD-033C-GW090310	Th-231	Filtered	0.0099	0.0067	0.0049	0.0057
RD-33C	SMRD-033C-GW090310	Th-231	Suspended	0.0049 U	0.0066	0.0035	0.0057
RD-33C	SMRD-033C-GW090310	Th-231	Total	0.0148	NA	0.006	NA
RD-33C	SMRD-033C-GW090310	Th-234	Filtered	11.1	23	7.6	11
RD-33C	SMRD-033C-GW090310	Th-234	Suspended	1.2 U	7.2	2.2	3.5
RD-33C	SMRD-033C-GW090310	Th-234	Total	12.3	NA	7.9	NA
RD-33C	SMRD-033C-GW090310	Tl-208	Filtered	0.04 U	1.9	0.5	0.91
RD-33C	SMRD-033C-GW090310	Tl-208	Suspended	0.5	0.74	0.24	0.35
RD-33C	SMRD-033C-GW090310	Tl-208	Total	0.54	NA	0.55	NA
RD-33C	SMRD-033C-GW090310	Tm-171	Filtered	80 U	350	100	170
RD-33C	SMRD-033C-GW090310	Tm-171	Suspended	35 U	120	37	60
RD-33C	SMRD-033C-GW090310	Tm-171	Total	120	NA	110	NA
RD-33C	SMRD-033C-GW090310	U-233/234	Filtered	0.223	0.015	0.024	0.005
RD-33C	SMRD-033C-GW090310	U-233/234	Suspended	-0.0011 U	0.014	0.0052	0.0046
RD-33C	SMRD-033C-GW090310	U-233/234	Total	0.221	NA	0.024	NA
RD-33C	SMRD-033C-GW090310	U-235/236	Filtered	0.0099	0.0067	0.0049	0.0057
RD-33C	SMRD-033C-GW090310	U-235/236	Suspended	0.0049 U	0.0066	0.0035	0.0057
RD-33C	SMRD-033C-GW090310	U-235/236	Total	0.0148	NA	0.006	NA
RD-33C	SMRD-033C-GW090310	U-238	Filtered	0.11	0.026	0.017	0.01
RD-33C	SMRD-033C-GW090310	U-238	Suspended	-0.0022 U	0.014	0.0044	0.0046

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-033C-GW090310	U-238	Total	0.108	NA	0.018	NA
RD-34A	SMRD-034A-GW082010	Ac-227	Filtered	-1.1 U	8.5	2.5	4.1
RD-34A	SMRD-034A-GW082010	Ac-227	Suspended	-0.9 U	4.1	1.2	2
RD-34A	SMRD-034A-GW082010	Ac-227	Total	-2	NA	2.8	NA
RD-34A	SMRD-034A-GW082010	Ac-228	Filtered	1.4 U	4.7	1.4	2.2
RD-34A	SMRD-034A-GW082010	Ac-228	Suspended	0.22 U	3.1	0.8	1.5
RD-34A	SMRD-034A-GW082010	Ac-228	Total	1.6	NA	1.6	NA
RD-34A	SMRD-034A-GW082010	Ag-108	Filtered	-0.02 U R	0.099	0.029	0.047
RD-34A	SMRD-034A-GW082010	Ag-108	Suspended	0.005 U R	0.051	0.015	0.024
RD-34A	SMRD-034A-GW082010	Ag-108	Total	-0.015 R	NA	0.033	NA
RD-34A	SMRD-034A-GW082010	Ag-108m	Filtered	-0.22 U R	1.1	0.31	0.5
RD-34A	SMRD-034A-GW082010	Ag-108m	Suspended	0.06 U R	0.54	0.16	0.26
RD-34A	SMRD-034A-GW082010	Ag-108m	Total	-0.16 R	NA	0.35	NA
RD-34A	SMRD-034A-GW082010	Ba-133	Filtered	0.04 U R	13	3.8	6.3
RD-34A	SMRD-034A-GW082010	Ba-133	Suspended	-1.4 U R	5.7	1.7	2.7
RD-34A	SMRD-034A-GW082010	Ba-133	Total	-1.3 R	NA	4.2	NA
RD-34A	SMRD-034A-GW082010	Ba-137m	Filtered	0.3 U	1.2	0.35	0.56
RD-34A	SMRD-034A-GW082010	Ba-137m	Suspended	-0.006 U	0.54	0.15	0.25
RD-34A	SMRD-034A-GW082010	Ba-137m	Total	0.29	NA	0.39	NA
RD-34A	SMRD-034A-GW082010	Bi-212	Filtered	4.4 U	11	3.3	5.1
RD-34A	SMRD-034A-GW082010	Bi-212	Suspended	3.3	6.3	1.9	3
RD-34A	SMRD-034A-GW082010	Bi-212	Total	7.7	NA	3.8	NA
RD-34A	SMRD-034A-GW082010	Bi-214	Filtered	1.37	2.7	0.92	1.3
RD-34A	SMRD-034A-GW082010	Bi-214	Suspended	-0.16 U	1.7	0.58	0.82
RD-34A	SMRD-034A-GW082010	Bi-214	Total	1.2	NA	1.1	NA
RD-34A	SMRD-034A-GW082010	Cd-113m	Filtered	-4400 U	15000	4400	7100
RD-34A	SMRD-034A-GW082010	Cd-113m	Suspended	-800 U	7100	2100	3400
RD-34A	SMRD-034A-GW082010	Cd-113m	Total	-5200	NA	4900	NA
RD-34A	SMRD-034A-GW082010	Cf-249	Filtered	-0.7 U R	6.2	1.8	3
RD-34A	SMRD-034A-GW082010	Cf-249	Suspended	0.77 U R	2.5	0.75	1.2
RD-34A	SMRD-034A-GW082010	Cf-249	Total	0.1 R	NA	2	NA
RD-34A	SMRD-034A-GW082010	Co-60	Filtered	-0.02 U	1.6	0.45	0.75
RD-34A	SMRD-034A-GW082010	Co-60	Suspended	-0.05 U	0.92	0.26	0.43
RD-34A	SMRD-034A-GW082010	Co-60	Total	-0.08	NA	0.53	NA
RD-34A	SMRD-034A-GW082010	Cs-134	Filtered	-0.64 U	1.7	0.51	0.8
RD-34A	SMRD-034A-GW082010	Cs-134	Suspended	0.07 U	0.69	0.2	0.33
RD-34A	SMRD-034A-GW082010	Cs-134	Total	-0.57	NA	0.54	NA
RD-34A	SMRD-034A-GW082010	Cs-137	Filtered	0.31 U	1.3	0.38	0.59

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD-034A-GW082010	Cs-137	Suspended	-0.006 U	0.57	0.16	0.27
RD-34A	SMRD-034A-GW082010	Cs-137	Total	0.31	NA	0.41	NA
RD-34A	SMRD-034A-GW082010	Eu-152	Filtered	0.8 U	3.3	0.98	1.6
RD-34A	SMRD-034A-GW082010	Eu-152	Suspended	-0.31 U	1.6	0.48	0.78
RD-34A	SMRD-034A-GW082010	Eu-152	Total	0.5	NA	1.1	NA
RD-34A	SMRD-034A-GW082010	Eu-154	Filtered	0.8 U	12	3.5	5.6
RD-34A	SMRD-034A-GW082010	Eu-154	Suspended	2.2 U	5.2	1.6	2.5
RD-34A	SMRD-034A-GW082010	Eu-154	Total	3	NA	3.8	NA
RD-34A	SMRD-034A-GW082010	Eu-155	Filtered	-1.69 U	3	0.92	1.5
RD-34A	SMRD-034A-GW082010	Eu-155	Suspended	0.29 U	1.2	0.36	0.58
RD-34A	SMRD-034A-GW082010	Eu-155	Total	-1.4	NA	0.99	NA
RD-34A	SMRD-034A-GW082010	gross_alpha	Filtered	19.4	0.4	1.1	0.2
RD-34A	SMRD-034A-GW082010	gross_alpha	Suspended	0.4 U	0.89	0.27	0.48
RD-34A	SMRD-034A-GW082010	gross_alpha	Total	19.8	NA	1.2	NA
RD-34A	SMRD-034A-GW082010	gross_beta	Filtered	14.3	3.2	1.6	1.9
RD-34A	SMRD-034A-GW082010	gross_beta	Suspended	2.03	0.79	0.32	0.47
RD-34A	SMRD-034A-GW082010	gross_beta	Total	16.4	NA	1.6	NA
RD-34A	SMRD-034A-GW082010	H-3	Filtered	966	130	65	66
RD-34A	SMRD-034A-GW082010	H-3	Suspended	0.37 U	3	0.81	1.3
RD-34A	SMRD-034A-GW082010	H-3	Total	966	NA	65	NA
RD-34A	SMRD-034A-GW082010	Ho-166m	Filtered	0.2 U	2	0.58	0.95
RD-34A	SMRD-034A-GW082010	Ho-166m	Suspended	-0.008 U	1.1	0.32	0.53
RD-34A	SMRD-034A-GW082010	Ho-166m	Total	0.2	NA	0.67	NA
RD-34A	SMRD-034A-GW082010	K-40	Filtered	7.9	16	4.9	7.3
RD-34A	SMRD-034A-GW082010	K-40	Suspended	0.6 U	12	3.7	5.8
RD-34A	SMRD-034A-GW082010	K-40	Total	8.5	NA	6.1	NA
RD-34A	SMRD-034A-GW082010	Na-22	Filtered	-0.34 U	1.8	0.53	0.84
RD-34A	SMRD-034A-GW082010	Na-22	Suspended	-0.13 U	0.85	0.25	0.4
RD-34A	SMRD-034A-GW082010	Na-22	Total	-0.47	NA	0.58	NA
RD-34A	SMRD-034A-GW082010	Nb-94	Filtered	-0.24 U	1.2	0.35	0.57
RD-34A	SMRD-034A-GW082010	Nb-94	Suspended	-0.003 U	0.61	0.18	0.29
RD-34A	SMRD-034A-GW082010	Nb-94	Total	-0.24	NA	0.4	NA
RD-34A	SMRD-034A-GW082010	Np-236	Filtered	-0.45 U	2.7	0.8	1.3
RD-34A	SMRD-034A-GW082010	Np-236	Suspended	0.06 U	1.1	0.33	0.54
RD-34A	SMRD-034A-GW082010	Np-236	Total	-0.39	NA	0.87	NA
RD-34A	SMRD-034A-GW082010	Np-239	Filtered	0.2 U	8	2.3	3.9
RD-34A	SMRD-034A-GW082010	Np-239	Suspended	1.19 U	3.2	0.97	1.6
RD-34A	SMRD-034A-GW082010	Np-239	Total	1.4	NA	2.5	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD-034A-GW082010	Pa-231	Filtered	-12 U	54	16	26
RD-34A	SMRD-034A-GW082010	Pa-231	Suspended	-6.2 U	27	8.1	13
RD-34A	SMRD-034A-GW082010	Pa-231	Total	-18	NA	18	NA
RD-34A	SMRD-034A-GW082010	Pb-212	Filtered	-0.5 U	2.9	1.2	1.4
RD-34A	SMRD-034A-GW082010	Pb-212	Suspended	0.45 U	1.3	0.47	0.64
RD-34A	SMRD-034A-GW082010	Pb-212	Total	-0.1	NA	1.3	NA
RD-34A	SMRD-034A-GW082010	Pb-214	Filtered	-0.2 U	2.9	1	1.4
RD-34A	SMRD-034A-GW082010	Pb-214	Suspended	0.22 U	1.4	0.44	0.68
RD-34A	SMRD-034A-GW082010	Pb-214	Total	-0.02	NA	1.1	NA
RD-34A	SMRD-034A-GW082010	Sb-125	Filtered	3.2 U	12	3.6	5.7
RD-34A	SMRD-034A-GW082010	Sb-125	Suspended	1.4 U	6.2	1.8	3
RD-34A	SMRD-034A-GW082010	Sb-125	Total	4.6	NA	4	NA
RD-34A	SMRD-034A-GW082010	Sn-126	Filtered	0.02 U	1	0.29	0.48
RD-34A	SMRD-034A-GW082010	Sn-126	Suspended	-0.009 U	0.84	0.24	0.4
RD-34A	SMRD-034A-GW082010	Sn-126	Total	0.01	NA	0.38	NA
RD-34A	SMRD-034A-GW082010	Sr-90	Suspended	0.002 U	0.072	0.021	0.041
RD-34A	SMRD-034A-GW082010	Sr-90	Total	-0.002	NA	0.058	NA
RD-34A	SMRD-034A-GW082010	Te-125m	Filtered	0.74 U	2.8	0.82	1.3
RD-34A	SMRD-034A-GW082010	Te-125m	Suspended	0.32 U	1.4	0.43	0.69
RD-34A	SMRD-034A-GW082010	Te-125m	Total	1.06	NA	0.93	NA
RD-34A	SMRD-034A-GW082010	Th-231	Filtered	0.578	0.038	0.07	0.011
RD-34A	SMRD-034A-GW082010	Th-231	Suspended	-0.0023 U	0.031	0.0023	0.0087
RD-34A	SMRD-034A-GW082010	Th-231	Total	0.576	NA	0.07	NA
RD-34A	SMRD-034A-GW082010	Th-234	Filtered	30.5	23	8.7	11
RD-34A	SMRD-034A-GW082010	Th-234	Suspended	-1.7 U	8.3	2.8	4.1
RD-34A	SMRD-034A-GW082010	Th-234	Total	28.8	NA	9.1	NA
RD-34A	SMRD-034A-GW082010	Tl-208	Filtered	-0.3 U	1.8	0.74	0.84
RD-34A	SMRD-034A-GW082010	Tl-208	Suspended	0.06 U	0.71	0.2	0.34
RD-34A	SMRD-034A-GW082010	Tl-208	Total	-0.24	NA	0.76	NA
RD-34A	SMRD-034A-GW082010	Tm-171	Filtered	7 U	360	110	170
RD-34A	SMRD-034A-GW082010	Tm-171	Suspended	-7 U	130	38	62
RD-34A	SMRD-034A-GW082010	Tm-171	Total	-0.7	NA	110	NA
RD-34A	SMRD-034A-GW082010	U-233/234	Filtered	10.8	0.04	0.52	0.02
RD-34A	SMRD-034A-GW082010	U-233/234	Suspended	0.016	0.039	0.014	0.016
RD-34A	SMRD-034A-GW082010	U-233/234	Total	10.8	NA	0.52	NA
RD-34A	SMRD-034A-GW082010	U-235/236	Filtered	0.578	0.038	0.07	0.011
RD-34A	SMRD-034A-GW082010	U-235/236	Suspended	-0.0023 U	0.031	0.0023	0.0087
RD-34A	SMRD-034A-GW082010	U-235/236	Total	0.576	NA	0.07	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD-034A-GW082010	U-238	Filtered	10.9	0.04	0.52	0.01
RD-34A	SMRD-034A-GW082010	U-238	Suspended	0.03	0.025	0.014	0.007
RD-34A	SMRD-034A-GW082010	U-238	Total	10.9	NA	0.52	NA
RD-34B	SMRD-034B-GW082010	Ac-227	Filtered	-3.4 U	11	3.2	5.1
RD-34B	SMRD-034B-GW082010	Ac-227	Suspended	-0.2 U	3.9	1.1	1.9
RD-34B	SMRD-034B-GW082010	Ac-227	Total	-3.7	NA	3.4	NA
RD-34B	SMRD-034B-GW082010	Ac-228	Filtered	7.2	3.8	1.8	1.7
RD-34B	SMRD-034B-GW082010	Ac-228	Suspended	1.15	2.2	0.66	1
RD-34B	SMRD-034B-GW082010	Ac-228	Total	8.4	NA	1.9	NA
RD-34B	SMRD-034B-GW082010	Ag-108	Filtered	0.028 U R	0.11	0.031	0.05
RD-34B	SMRD-034B-GW082010	Ag-108	Suspended	-0.002 U R	0.035	0.01	0.017
RD-34B	SMRD-034B-GW082010	Ag-108	Total	0.026 R	NA	0.033	NA
RD-34B	SMRD-034B-GW082010	Ag-108m	Filtered	0.3 U R	1.1	0.33	0.53
RD-34B	SMRD-034B-GW082010	Ag-108m	Suspended	-0.02 U R	0.38	0.11	0.18
RD-34B	SMRD-034B-GW082010	Ag-108m	Total	0.28 R	NA	0.35	NA
RD-34B	SMRD-034B-GW082010	Ba-133	Filtered	-2.4 U R	15	4.3	7.1
RD-34B	SMRD-034B-GW082010	Ba-133	Suspended	0.3 U R	5.7	1.7	2.7
RD-34B	SMRD-034B-GW082010	Ba-133	Total	-2 R	NA	4.7	NA
RD-34B	SMRD-034B-GW082010	Ba-137m	Filtered	-0.01 U	1.4	0.38	0.63
RD-34B	SMRD-034B-GW082010	Ba-137m	Suspended	-0.29 U	0.76	0.5	0.36
RD-34B	SMRD-034B-GW082010	Ba-137m	Total	-0.31	NA	0.63	NA
RD-34B	SMRD-034B-GW082010	Bi-212	Filtered	1.3 U	14	3.9	6.3
RD-34B	SMRD-034B-GW082010	Bi-212	Suspended	2.8	5.6	1.7	2.6
RD-34B	SMRD-034B-GW082010	Bi-212	Total	4.1	NA	4.2	NA
RD-34B	SMRD-034B-GW082010	Bi-214	Filtered	1.9	3.4	1	1.6
RD-34B	SMRD-034B-GW082010	Bi-214	Suspended	1.24	1.1	0.4	0.53
RD-34B	SMRD-034B-GW082010	Bi-214	Total	3.1	NA	1.1	NA
RD-34B	SMRD-034B-GW082010	Cd-113m	Filtered	7600	15000	4600	7300
RD-34B	SMRD-034B-GW082010	Cd-113m	Suspended	600 U	6800	2000	3300
RD-34B	SMRD-034B-GW082010	Cd-113m	Total	8200	NA	5000	NA
RD-34B	SMRD-034B-GW082010	Cf-249	Filtered	3.2 R	6	1.8	2.8
RD-34B	SMRD-034B-GW082010	Cf-249	Suspended	-0.59 U R	2.9	0.87	1.4
RD-34B	SMRD-034B-GW082010	Cf-249	Total	2.6 R	NA	2	NA
RD-34B	SMRD-034B-GW082010	Co-60	Filtered	0.41 U	1.4	0.42	0.64
RD-34B	SMRD-034B-GW082010	Co-60	Suspended	0.25 U	0.63	0.19	0.28
RD-34B	SMRD-034B-GW082010	Co-60	Total	0.66	NA	0.46	NA
RD-34B	SMRD-034B-GW082010	Cs-134	Filtered	0.08 U	1.7	0.49	0.81
RD-34B	SMRD-034B-GW082010	Cs-134	Suspended	-0.32 U	0.79	0.24	0.38

Table D.1
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-034B-GW082010	Cs-134	Total	-0.24	NA	0.55	NA
RD-34B	SMRD-034B-GW082010	Cs-137	Filtered	-0.01 U	1.4	0.4	0.66
RD-34B	SMRD-034B-GW082010	Cs-137	Suspended	-0.31 U	0.8	0.53	0.38
RD-34B	SMRD-034B-GW082010	Cs-137	Total	-0.32	NA	0.66	NA
RD-34B	SMRD-034B-GW082010	Eu-152	Filtered	-2.3 U	4.5	1.4	2.1
RD-34B	SMRD-034B-GW082010	Eu-152	Suspended	-0.53 U	1.7	0.51	0.82
RD-34B	SMRD-034B-GW082010	Eu-152	Total	-2.8	NA	1.5	NA
RD-34B	SMRD-034B-GW082010	Eu-154	Filtered	0 U	13	3.6	5.9
RD-34B	SMRD-034B-GW082010	Eu-154	Suspended	-0.9 U	5.5	1.6	2.6
RD-34B	SMRD-034B-GW082010	Eu-154	Total	-0.9	NA	3.9	NA
RD-34B	SMRD-034B-GW082010	Eu-155	Filtered	0.88 U	3.2	0.94	1.5
RD-34B	SMRD-034B-GW082010	Eu-155	Suspended	0.44 U	1.2	0.36	0.58
RD-34B	SMRD-034B-GW082010	Eu-155	Total	1.3	NA	1	NA
RD-34B	SMRD-034B-GW082010	gross_alpha	Filtered	4.73	0.46	0.43	0.25
RD-34B	SMRD-034B-GW082010	gross_alpha	Suspended	1.12	1.1	0.38	0.59
RD-34B	SMRD-034B-GW082010	gross_alpha	Total	5.85	NA	0.57	NA
RD-34B	SMRD-034B-GW082010	gross_beta	Filtered	6.51	1.7	0.8	0.97
RD-34B	SMRD-034B-GW082010	gross_beta	Suspended	0.28 U	0.77	0.23	0.46
RD-34B	SMRD-034B-GW082010	gross_beta	Total	6.79	NA	0.84	NA
RD-34B	SMRD-034B-GW082010	H-3	Filtered	191	140	44	67
RD-34B	SMRD-034B-GW082010	H-3	Suspended	18	18	6.1	7.5
RD-34B	SMRD-034B-GW082010	H-3	Total	209	NA	44	NA
RD-34B	SMRD-034B-GW082010	Ho-166m	Filtered	-0.4 U	2.5	0.72	1.2
RD-34B	SMRD-034B-GW082010	Ho-166m	Suspended	0.28 U	0.92	0.27	0.43
RD-34B	SMRD-034B-GW082010	Ho-166m	Total	-0.12	NA	0.77	NA
RD-34B	SMRD-034B-GW082010	K-40	Filtered	-20 U	27	37	13
RD-34B	SMRD-034B-GW082010	K-40	Suspended	-0.5 U	8.7	2.1	4
RD-34B	SMRD-034B-GW082010	K-40	Total	-20	NA	37	NA
RD-34B	SMRD-034B-GW082010	Na-22	Filtered	-0.0003 U	1.8	0.49	0.8
RD-34B	SMRD-034B-GW082010	Na-22	Suspended	0.19 U	0.67	0.2	0.3
RD-34B	SMRD-034B-GW082010	Na-22	Total	0.19	NA	0.53	NA
RD-34B	SMRD-034B-GW082010	Nb-94	Filtered	-0.01 U	1.5	0.41	0.68
RD-34B	SMRD-034B-GW082010	Nb-94	Suspended	-0.26 U	0.69	0.21	0.33
RD-34B	SMRD-034B-GW082010	Nb-94	Total	-0.28	NA	0.46	NA
RD-34B	SMRD-034B-GW082010	Np-236	Filtered	-0.93 U	2.9	0.88	1.4
RD-34B	SMRD-034B-GW082010	Np-236	Suspended	0 U	1.2	0.35	0.58
RD-34B	SMRD-034B-GW082010	Np-236	Total	-0.93	NA	0.95	NA
RD-34B	SMRD-034B-GW082010	Np-239	Filtered	1.2 U	8	2.4	3.8

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-034B-GW082010	Np-239	Suspended	-0.8 U	3.4	1	1.7
RD-34B	SMRD-034B-GW082010	Np-239	Total	0.3	NA	2.6	NA
RD-34B	SMRD-034B-GW082010	Pa-231	Filtered	-6 U	65	19	31
RD-34B	SMRD-034B-GW082010	Pa-231	Suspended	-5.7 U	26	7.6	12
RD-34B	SMRD-034B-GW082010	Pa-231	Total	-11	NA	20	NA
RD-34B	SMRD-034B-GW082010	Pb-212	Filtered	1.9	3	1	1.4
RD-34B	SMRD-034B-GW082010	Pb-212	Suspended	-0.06 U	0.99	0.36	0.48
RD-34B	SMRD-034B-GW082010	Pb-212	Total	1.8	NA	1.1	NA
RD-34B	SMRD-034B-GW082010	Pb-214	Filtered	2.2	3.3	1.2	1.6
RD-34B	SMRD-034B-GW082010	Pb-214	Suspended	2.13	0.83	0.41	0.39
RD-34B	SMRD-034B-GW082010	Pb-214	Total	4.4	NA	1.3	NA
RD-34B	SMRD-034B-GW082010	Sb-125	Filtered	-0.5 U	16	4.6	7.6
RD-34B	SMRD-034B-GW082010	Sb-125	Suspended	-0.7 U	6	1.8	2.9
RD-34B	SMRD-034B-GW082010	Sb-125	Total	-1.2	NA	4.9	NA
RD-34B	SMRD-034B-GW082010	Sn-126	Filtered	-0.13 U	1.7	0.48	0.79
RD-34B	SMRD-034B-GW082010	Sn-126	Suspended	0.28 U	0.68	0.2	0.32
RD-34B	SMRD-034B-GW082010	Sn-126	Total	0.15	NA	0.53	NA
RD-34B	SMRD-034B-GW082010	Sr-90	Suspended	0.014 U	0.076	0.023	0.044
RD-34B	SMRD-034B-GW082010	Sr-90	Total	0.027	NA	0.054	NA
RD-34B	SMRD-034B-GW082010	Te-125m	Filtered	-0.1 U	3.6	1.1	1.7
RD-34B	SMRD-034B-GW082010	Te-125m	Suspended	-0.17 U	1.4	0.41	0.67
RD-34B	SMRD-034B-GW082010	Te-125m	Total	-0.3	NA	1.1	NA
RD-34B	SMRD-034B-GW082010	Th-231	Filtered	0.108	0.031	0.026	0.009
RD-34B	SMRD-034B-GW082010	Th-231	Suspended	0.0056 U	0.015	0.0056	0.008
RD-34B	SMRD-034B-GW082010	Th-231	Total	0.114	NA	0.027	NA
RD-34B	SMRD-034B-GW082010	Th-234	Filtered	1.7 U	21	6	10
RD-34B	SMRD-034B-GW082010	Th-234	Suspended	-1.4 U	7.2	2.6	3.5
RD-34B	SMRD-034B-GW082010	Th-234	Total	0.3	NA	6.5	NA
RD-34B	SMRD-034B-GW082010	Tl-208	Filtered	0.72 U	1.6	0.46	0.73
RD-34B	SMRD-034B-GW082010	Tl-208	Suspended	-0.41 U	0.9	0.48	0.43
RD-34B	SMRD-034B-GW082010	Tl-208	Total	0.31	NA	0.66	NA
RD-34B	SMRD-034B-GW082010	Tm-171	Filtered	70 U	350	100	170
RD-34B	SMRD-034B-GW082010	Tm-171	Suspended	-91 L U	120	36	56
RD-34B	SMRD-034B-GW082010	Tm-171	Total	-20	NA	110	NA
RD-34B	SMRD-034B-GW082010	U-233/234	Filtered	1.75	0.03	0.12	0.01
RD-34B	SMRD-034B-GW082010	U-233/234	Suspended	0.031	0.036	0.015	0.014
RD-34B	SMRD-034B-GW082010	U-233/234	Total	1.78	NA	0.12	NA
RD-34B	SMRD-034B-GW082010	U-235/236	Filtered	0.108	0.031	0.026	0.009

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-034B-GW082010	U-235/236	Suspended	0.0056 U	0.015	0.0056	0.008
RD-34B	SMRD-034B-GW082010	U-235/236	Total	0.114	NA	0.027	NA
RD-34B	SMRD-034B-GW082010	U-238	Filtered	1.51	0.03	0.11	0.01
RD-34B	SMRD-034B-GW082010	U-238	Suspended	0.012	0.027	0.01	0.009
RD-34B	SMRD-034B-GW082010	U-238	Total	1.52	NA	0.11	NA
RD-34C	SMRD-34C-GW083010	Ac-227	Filtered	-1 U	8.8	2.6	4.3
RD-34C	SMRD-34C-GW083010	Ac-227	Suspended	-1.8 U	4.3	1.3	2.1
RD-34C	SMRD-34C-GW083010	Ac-227	Total	-2.8	NA	2.9	NA
RD-34C	SMRD-34C-GW083010	Ac-228	Filtered	3.8	4.6	1.5	2.1
RD-34C	SMRD-34C-GW083010	Ac-228	Suspended	4.23	1.6	0.73	0.71
RD-34C	SMRD-34C-GW083010	Ac-228	Total	8	NA	1.6	NA
RD-34C	SMRD-34C-GW083010	Ag-108	Filtered	0.029 U R	0.081	0.024	0.038
RD-34C	SMRD-34C-GW083010	Ag-108	Suspended	-0.002 U R	0.049	0.014	0.023
RD-34C	SMRD-34C-GW083010	Ag-108	Total	0.027 R	NA	0.028	NA
RD-34C	SMRD-34C-GW083010	Ag-108m	Filtered	0.31 U R	0.87	0.26	0.41
RD-34C	SMRD-34C-GW083010	Ag-108m	Suspended	-0.02 U R	0.52	0.15	0.25
RD-34C	SMRD-34C-GW083010	Ag-108m	Total	0.29 R	NA	0.3	NA
RD-34C	SMRD-34C-GW083010	Ba-133	Filtered	0.2 U R	11	3.1	5.1
RD-34C	SMRD-34C-GW083010	Ba-133	Suspended	1.3 U R	5.9	1.8	2.9
RD-34C	SMRD-34C-GW083010	Ba-133	Total	1.4 R	NA	3.6	NA
RD-34C	SMRD-34C-GW083010	Ba-137m	Filtered	0.34 U	1.4	0.4	0.63
RD-34C	SMRD-34C-GW083010	Ba-137m	Suspended	0.12 U	0.67	0.2	0.32
RD-34C	SMRD-34C-GW083010	Ba-137m	Total	0.46	NA	0.44	NA
RD-34C	SMRD-34C-GW083010	Bi-212	Filtered	4.7 U	11	3.5	5.3
RD-34C	SMRD-34C-GW083010	Bi-212	Suspended	-0.5 U	6.6	3	3.2
RD-34C	SMRD-34C-GW083010	Bi-212	Total	4.1	NA	4.6	NA
RD-34C	SMRD-34C-GW083010	Bi-214	Filtered	3.4	2.5	1	1.2
RD-34C	SMRD-34C-GW083010	Bi-214	Suspended	1.35	1.5	0.47	0.7
RD-34C	SMRD-34C-GW083010	Bi-214	Total	4.7	NA	1.1	NA
RD-34C	SMRD-34C-GW083010	Cd-113m	Filtered	1800 U	16000	4700	7600
RD-34C	SMRD-34C-GW083010	Cd-113m	Suspended	-500 U	7200	2100	3500
RD-34C	SMRD-34C-GW083010	Cd-113m	Total	1200	NA	5100	NA
RD-34C	SMRD-34C-GW083010	Cf-249	Filtered	0.2 U R	6.4	1.9	3.1
RD-34C	SMRD-34C-GW083010	Cf-249	Suspended	0.4 U R	3	0.89	1.4
RD-34C	SMRD-34C-GW083010	Cf-249	Total	0.6 R	NA	2.1	NA
RD-34C	SMRD-34C-GW083010	Co-60	Filtered	0.002 U	1.6	0.43	0.72
RD-34C	SMRD-34C-GW083010	Co-60	Suspended	0.02 U	0.82	0.23	0.38
RD-34C	SMRD-34C-GW083010	Co-60	Total	0.02	NA	0.49	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW083010	Cs-134	Filtered	-0.23 U	1.6	0.47	0.77
RD-34C	SMRD-34C-GW083010	Cs-134	Suspended	0.36 U	0.86	0.26	0.42
RD-34C	SMRD-34C-GW083010	Cs-134	Total	0.13	NA	0.54	NA
RD-34C	SMRD-34C-GW083010	Cs-137	Filtered	0.36 U	1.4	0.42	0.67
RD-34C	SMRD-34C-GW083010	Cs-137	Suspended	0.13 U	0.71	0.21	0.34
RD-34C	SMRD-34C-GW083010	Cs-137	Total	0.48	NA	0.47	NA
RD-34C	SMRD-34C-GW083010	Eu-152	Filtered	0.8 U	3.7	1.1	1.8
RD-34C	SMRD-34C-GW083010	Eu-152	Suspended	0.52 U	1.7	0.51	0.82
RD-34C	SMRD-34C-GW083010	Eu-152	Total	1.3	NA	1.2	NA
RD-34C	SMRD-34C-GW083010	Eu-154	Filtered	3.4 U	11	3.2	5
RD-34C	SMRD-34C-GW083010	Eu-154	Suspended	0.2 U	3.8	1.1	1.8
RD-34C	SMRD-34C-GW083010	Eu-154	Total	3.6	NA	3.4	NA
RD-34C	SMRD-34C-GW083010	Eu-155	Filtered	0.44 U	3.3	0.96	1.6
RD-34C	SMRD-34C-GW083010	Eu-155	Suspended	0.32 U	1.2	0.37	0.59
RD-34C	SMRD-34C-GW083010	Eu-155	Total	0.8	NA	1	NA
RD-34C	SMRD-34C-GW083010	gross_alpha	Filtered	1.23	0.47	0.23	0.26
RD-34C	SMRD-34C-GW083010	gross_alpha	Suspended	0.25	0.4	0.13	0.21
RD-34C	SMRD-34C-GW083010	gross_alpha	Total	1.49	NA	0.26	NA
RD-34C	SMRD-34C-GW083010	gross_beta	Filtered	4.81	2.1	0.82	1.2
RD-34C	SMRD-34C-GW083010	gross_beta	Suspended	-0.31 U	0.72	0.19	0.42
RD-34C	SMRD-34C-GW083010	gross_beta	Total	4.51	NA	0.85	NA
RD-34C	SMRD-34C-GW083010	H-3	Filtered	11 U	130	40	65
RD-34C	SMRD-34C-GW083010	H-3	Suspended	-13.3 U R	40	8.8	18
RD-34C	SMRD-34C-GW083010	H-3	Total	-2 R	NA	41	NA
RD-34C	SMRD-34C-GW083010	H-3_Total	Filtered	11.1 U	26	7.7	12
RD-34C	SMRD-34C-GW083010	H-3_Total	Suspended	-13.3 L U	34	6.6	15
RD-34C	SMRD-34C-GW083010	H-3_Total	Total	-2 R	NA	10	NA
RD-34C	SMRD-34C-GW083010	Ho-166m	Filtered	-0.005 U	1.8	0.49	0.81
RD-34C	SMRD-34C-GW083010	Ho-166m	Suspended	0.31 U	0.87	0.26	0.41
RD-34C	SMRD-34C-GW083010	Ho-166m	Total	0.3	NA	0.55	NA
RD-34C	SMRD-34C-GW083010	K-40	Filtered	-10 U	22	13	10
RD-34C	SMRD-34C-GW083010	K-40	Suspended	8.9	9.1	2.8	4.3
RD-34C	SMRD-34C-GW083010	K-40	Total	-0.7	NA	14	NA
RD-34C	SMRD-34C-GW083010	Na-22	Filtered	0.06 U	1.5	0.42	0.68
RD-34C	SMRD-34C-GW083010	Na-22	Suspended	0.06 U	0.67	0.19	0.31
RD-34C	SMRD-34C-GW083010	Na-22	Total	0.12	NA	0.46	NA
RD-34C	SMRD-34C-GW083010	Nb-94	Filtered	-0.32 U	1.3	0.39	0.61
RD-34C	SMRD-34C-GW083010	Nb-94	Suspended	0.1 U	0.66	0.19	0.31

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW083010	Nb-94	Total	-0.22	NA	0.43	NA
RD-34C	SMRD-34C-GW083010	Np-236	Filtered	-1 U	2.6	0.8	1.3
RD-34C	SMRD-34C-GW083010	Np-236	Suspended	-0.35 U	1.2	0.37	0.61
RD-34C	SMRD-34C-GW083010	Np-236	Total	-1.35	NA	0.88	NA
RD-34C	SMRD-34C-GW083010	Np-239	Filtered	0 U	7.4	2.2	3.6
RD-34C	SMRD-34C-GW083010	Np-239	Suspended	0.3 U	3.9	1.2	1.9
RD-34C	SMRD-34C-GW083010	Np-239	Total	0.3	NA	2.5	NA
RD-34C	SMRD-34C-GW083010	Pa-231	Filtered	4 U	54	16	26
RD-34C	SMRD-34C-GW083010	Pa-231	Suspended	3.9 U	27	8.1	13
RD-34C	SMRD-34C-GW083010	Pa-231	Total	8	NA	18	NA
RD-34C	SMRD-34C-GW083010	Pb-212	Filtered	1.38	2.5	0.96	1.2
RD-34C	SMRD-34C-GW083010	Pb-212	Suspended	0.64 U	1.3	0.5	0.65
RD-34C	SMRD-34C-GW083010	Pb-212	Total	2	NA	1.1	NA
RD-34C	SMRD-34C-GW083010	Pb-214	Filtered	3	2.8	1.1	1.3
RD-34C	SMRD-34C-GW083010	Pb-214	Suspended	2.53	1.5	0.64	0.73
RD-34C	SMRD-34C-GW083010	Pb-214	Total	5.5	NA	1.3	NA
RD-34C	SMRD-34C-GW083010	Sb-125	Filtered	-1.2 U	14	4.1	6.7
RD-34C	SMRD-34C-GW083010	Sb-125	Suspended	0.8 U	5.8	1.7	2.8
RD-34C	SMRD-34C-GW083010	Sb-125	Total	-0.4	NA	4.5	NA
RD-34C	SMRD-34C-GW083010	Sn-126	Filtered	0.19 U	1.4	0.39	0.63
RD-34C	SMRD-34C-GW083010	Sn-126	Suspended	0.24 U	0.69	0.21	0.33
RD-34C	SMRD-34C-GW083010	Sn-126	Total	0.43	NA	0.44	NA
RD-34C	SMRD-34C-GW083010	Sr-90	Filtered	-0.008 U	0.18	0.049	0.1
RD-34C	SMRD-34C-GW083010	Sr-90	Suspended	0.017 U	0.14	0.041	0.085
RD-34C	SMRD-34C-GW083010	Sr-90	Total	0.008	NA	0.063	NA
RD-34C	SMRD-34C-GW083010	Te-125m	Filtered	-0.28 U	3.2	0.95	1.6
RD-34C	SMRD-34C-GW083010	Te-125m	Suspended	0.18 U	1.3	0.4	0.65
RD-34C	SMRD-34C-GW083010	Te-125m	Total	-0.1	NA	1	NA
RD-34C	SMRD-34C-GW083010	Th-231	Filtered	0.008	0.0072	0.0046	0.0062
RD-34C	SMRD-34C-GW083010	Th-231	Suspended	0 U	0.016	0.0022	0.0082
RD-34C	SMRD-34C-GW083010	Th-231	Total	0.008	NA	0.0051	NA
RD-34C	SMRD-34C-GW083010	Th-234	Filtered	-0.2 U	22	7	11
RD-34C	SMRD-34C-GW083010	Th-234	Suspended	-0.5 U	7.1	2.3	3.5
RD-34C	SMRD-34C-GW083010	Th-234	Total	-0.7	NA	7.4	NA
RD-34C	SMRD-34C-GW083010	Tl-208	Filtered	-0.23 U	1.7	0.69	0.82
RD-34C	SMRD-34C-GW083010	Tl-208	Suspended	0.17 U	0.91	0.25	0.44
RD-34C	SMRD-34C-GW083010	Tl-208	Total	-0.06	NA	0.73	NA
RD-34C	SMRD-34C-GW083010	Tm-171	Filtered	-20 U	350	100	170

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW083010	Tm-171	Suspended	36 U	130	38	62
RD-34C	SMRD-34C-GW083010	Tm-171	Total	10	NA	110	NA
RD-34C	SMRD-34C-GW083010	U-233/234	Filtered	0.293	0.02	0.029	0.007
RD-34C	SMRD-34C-GW083010	U-233/234	Suspended	0.004 U	0.037	0.011	0.015
RD-34C	SMRD-34C-GW083010	U-233/234	Total	0.298	NA	0.031	NA
RD-34C	SMRD-34C-GW083010	U-235/236	Filtered	0.008	0.0072	0.0046	0.0062
RD-34C	SMRD-34C-GW083010	U-235/236	Suspended	0 U	0.016	0.0022	0.0082
RD-34C	SMRD-34C-GW083010	U-235/236	Total	0.008	NA	0.0051	NA
RD-34C	SMRD-34C-GW083010	U-238	Filtered	0.043	0.02	0.011	0.007
RD-34C	SMRD-34C-GW083010	U-238	Suspended	0.017 K	0.028	0.012	0.009
RD-34C	SMRD-34C-GW083010	U-238	Total	0.06	NA	0.016	NA
RD-50	SMRD-50-GW081810	Ac-227	Filtered	-2.2 U	11	3.4	5.5
RD-50	SMRD-50-GW081810	Ac-227	Suspended	-0.9 U	3.6	1.1	1.7
RD-50	SMRD-50-GW081810	Ac-227	Total	-3.1	NA	3.5	NA
RD-50	SMRD-50-GW081810	Ac-228	Filtered	3.4	5.1	1.6	2.4
RD-50	SMRD-50-GW081810	Ac-228	Suspended	3.15	2.1	0.7	0.97
RD-50	SMRD-50-GW081810	Ac-228	Total	6.6	NA	1.8	NA
RD-50	SMRD-50-GW081810	Ag-108	Filtered	-0.017 U R	0.11	0.032	0.052
RD-50	SMRD-50-GW081810	Ag-108	Suspended	0.0002 U R	0.047	0.014	0.023
RD-50	SMRD-50-GW081810	Ag-108	Total	-0.17 R	NA	0.35	NA
RD-50	SMRD-50-GW081810	Ag-108m	Filtered	-0.18 U R	1.2	0.34	0.56
RD-50	SMRD-50-GW081810	Ag-108m	Suspended	0.002 U R	0.51	0.15	0.24
RD-50	SMRD-50-GW081810	Ag-108m	Total	-0.18 R	NA	0.37	NA
RD-50	SMRD-50-GW081810	Ba-133	Filtered	-0.4 U R	16	4.5	7.5
RD-50	SMRD-50-GW081810	Ba-133	Suspended	-0.1 U R	6.1	1.8	3
RD-50	SMRD-50-GW081810	Ba-133	Total	-0.5 R	NA	4.9	NA
RD-50	SMRD-50-GW081810	Ba-137m	Filtered	0.45 U	1.2	0.36	0.55
RD-50	SMRD-50-GW081810	Ba-137m	Suspended	-0.05 U	0.71	0.21	0.34
RD-50	SMRD-50-GW081810	Ba-137m	Total	0.4	NA	0.41	NA
RD-50	SMRD-50-GW081810	Bi-212	Filtered	-0.06 U	9	2.5	4.1
RD-50	SMRD-50-GW081810	Bi-212	Suspended	2.1 U	5.2	1.6	2.5
RD-50	SMRD-50-GW081810	Bi-212	Total	2	NA	3	NA
RD-50	SMRD-50-GW081810	Bi-214	Filtered	-2.2 U	3.6	2.4	1.7
RD-50	SMRD-50-GW081810	Bi-214	Suspended	0.77 U	1.7	0.57	0.81
RD-50	SMRD-50-GW081810	Bi-214	Total	-1.4	NA	2.5	NA
RD-50	SMRD-50-GW081810	Cd-113m	Filtered	1000 U	17000	5100	8300
RD-50	SMRD-50-GW081810	Cd-113m	Suspended	-3200 U	7100	2200	3400
RD-50	SMRD-50-GW081810	Cd-113m	Total	-2300	NA	5500	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW081810	Cf-249	Filtered	2.8 U R	7.4	2.2	3.6
RD-50	SMRD-50-GW081810	Cf-249	Suspended	-0.05 U R	2.9	0.86	1.4
RD-50	SMRD-50-GW081810	Cf-249	Total	2.7 R	NA	2.4	NA
RD-50	SMRD-50-GW081810	Co-60	Filtered	0.01 U	1.6	0.44	0.73
RD-50	SMRD-50-GW081810	Co-60	Suspended	-0.004 U	0.74	0.21	0.34
RD-50	SMRD-50-GW081810	Co-60	Total	0.007	NA	0.49	NA
RD-50	SMRD-50-GW081810	Cs-134	Filtered	-0.06 U	2.1	0.62	1
RD-50	SMRD-50-GW081810	Cs-134	Suspended	0.01 U	0.7	0.2	0.34
RD-50	SMRD-50-GW081810	Cs-134	Total	-0.04	NA	0.65	NA
RD-50	SMRD-50-GW081810	Cs-137	Filtered	0.48 U	1.3	0.38	0.58
RD-50	SMRD-50-GW081810	Cs-137	Suspended	-0.05 U	0.75	0.22	0.36
RD-50	SMRD-50-GW081810	Cs-137	Total	0.43	NA	0.43	NA
RD-50	SMRD-50-GW081810	Eu-152	Filtered	-0.2 U	4.5	1.3	2.2
RD-50	SMRD-50-GW081810	Eu-152	Suspended	0.3 U	1.6	0.48	0.78
RD-50	SMRD-50-GW081810	Eu-152	Total	0.08	NA	1.4	NA
RD-50	SMRD-50-GW081810	Eu-154	Filtered	0.2 U	13	3.8	6.2
RD-50	SMRD-50-GW081810	Eu-154	Suspended	-1.3 U	5.4	1.6	2.5
RD-50	SMRD-50-GW081810	Eu-154	Total	-1.1	NA	4.1	NA
RD-50	SMRD-50-GW081810	Eu-155	Filtered	-0.7 U	5.1	1.5	2.5
RD-50	SMRD-50-GW081810	Eu-155	Suspended	0.03 U	1.1	0.32	0.53
RD-50	SMRD-50-GW081810	Eu-155	Total	-0.6	NA	1.6	NA
RD-50	SMRD-50-GW081810	gross_alpha	Filtered	22.3	0.4	1.5	0.2
RD-50	SMRD-50-GW081810	gross_alpha	Suspended	0.52	0.5	0.19	0.26
RD-50	SMRD-50-GW081810	gross_alpha	Total	22.8	NA	1.5	NA
RD-50	SMRD-50-GW081810	gross_beta	Filtered	10	2.3	1.1	1.3
RD-50	SMRD-50-GW081810	gross_beta	Suspended	0.5	0.76	0.24	0.45
RD-50	SMRD-50-GW081810	gross_beta	Total	10.5	NA	1.1	NA
RD-50	SMRD-50-GW081810	H-3	Filtered	-2 U	150	44	72
RD-50	SMRD-50-GW081810	H-3	Suspended	-1.6 U R	27	7.9	13
RD-50	SMRD-50-GW081810	H-3	Total	-4 R	NA	44	NA
RD-50	SMRD-50-GW081810	Ho-166m	Filtered	0.09 U	2.3	0.66	1.1
RD-50	SMRD-50-GW081810	Ho-166m	Suspended	0.27 U	1.1	0.33	0.52
RD-50	SMRD-50-GW081810	Ho-166m	Total	0.36	NA	0.73	NA
RD-50	SMRD-50-GW081810	K-40	Filtered	4.2 U	17	3.7	7.8
RD-50	SMRD-50-GW081810	K-40	Suspended	-0.5 U	12	3	5.5
RD-50	SMRD-50-GW081810	K-40	Total	3.7	NA	4.7	NA
RD-50	SMRD-50-GW081810	Na-22	Filtered	-0.03 U	1.5	0.43	0.7
RD-50	SMRD-50-GW081810	Na-22	Suspended	0.02 U	0.6	0.17	0.28

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW081810	Na-22	Total	-0.003	NA	0.46	NA
RD-50	SMRD-50-GW081810	Nb-94	Filtered	0.04 U	1.3	0.37	0.6
RD-50	SMRD-50-GW081810	Nb-94	Suspended	-0.13 U	0.66	0.19	0.31
RD-50	SMRD-50-GW081810	Nb-94	Total	-0.09	NA	0.41	NA
RD-50	SMRD-50-GW081810	Np-236	Filtered	-0.3 U	3.5	1.1	1.7
RD-50	SMRD-50-GW081810	Np-236	Suspended	-0.35 U	1.3	0.38	0.62
RD-50	SMRD-50-GW081810	Np-236	Total	-0.7	NA	1.1	NA
RD-50	SMRD-50-GW081810	Np-239	Filtered	0 U	11	3.1	5.1
RD-50	SMRD-50-GW081810	Np-239	Suspended	-0.5 U	3.7	1.1	1.8
RD-50	SMRD-50-GW081810	Np-239	Total	-0.5	NA	3.3	NA
RD-50	SMRD-50-GW081810	Pa-231	Filtered	21 U	68	20	33
RD-50	SMRD-50-GW081810	Pa-231	Suspended	-0.2 U	23	6.6	11
RD-50	SMRD-50-GW081810	Pa-231	Total	21	NA	21	NA
RD-50	SMRD-50-GW081810	Pb-212	Filtered	-0.8 U	3.2	1.4	1.5
RD-50	SMRD-50-GW081810	Pb-212	Suspended	0.02 U	1.1	0.32	0.52
RD-50	SMRD-50-GW081810	Pb-212	Total	-0.8	NA	1.5	NA
RD-50	SMRD-50-GW081810	Pb-214	Filtered	1.48 U	3.1	0.93	1.5
RD-50	SMRD-50-GW081810	Pb-214	Suspended	-0.66 U	1.6	0.62	0.77
RD-50	SMRD-50-GW081810	Pb-214	Total	0.8	NA	1.1	NA
RD-50	SMRD-50-GW081810	Sb-125	Filtered	0.3 U	15	4.6	7.5
RD-50	SMRD-50-GW081810	Sb-125	Suspended	1.1 U	5.8	1.7	2.8
RD-50	SMRD-50-GW081810	Sb-125	Total	1.4	NA	4.9	NA
RD-50	SMRD-50-GW081810	Sn-126	Filtered	0.25 U	1.6	0.47	0.76
RD-50	SMRD-50-GW081810	Sn-126	Suspended	0.09 U	0.68	0.2	0.32
RD-50	SMRD-50-GW081810	Sn-126	Total	0.35	NA	0.51	NA
RD-50	SMRD-50-GW081810	Sr-90	Filtered	0.113 U	0.22	0.066	0.13
RD-50	SMRD-50-GW081810	Sr-90	Suspended	0.044 U	0.19	0.057	0.12
RD-50	SMRD-50-GW081810	Sr-90	Total	0.157	NA	0.088	NA
RD-50	SMRD-50-GW081810	Te-125m	Filtered	0.06 U	3.6	1.1	1.7
RD-50	SMRD-50-GW081810	Te-125m	Suspended	0.26 U	1.3	0.4	0.65
RD-50	SMRD-50-GW081810	Te-125m	Total	1.3	NA	4.6	NA
RD-50	SMRD-50-GW081810	Th-231	Filtered	0.72	0.055	0.078	0.022
RD-50	SMRD-50-GW081810	Th-231	Suspended	0.008 U	0.036	0.01	0.01
RD-50	SMRD-50-GW081810	Th-231	Total	0.727	NA	0.078	NA
RD-50	SMRD-50-GW081810	Th-234	Filtered	12 U	44	15	22
RD-50	SMRD-50-GW081810	Th-234	Suspended	-2.1 U	8.5	3	4.2
RD-50	SMRD-50-GW081810	Th-234	Total	10	NA	15	NA
RD-50	SMRD-50-GW081810	Tl-208	Filtered	-2.5 U	2.1	3.9	1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW081810	Tl-208	Suspended	0.21 U	0.77	0.27	0.37
RD-50	SMRD-50-GW081810	Tl-208	Total	-2.3	NA	3.9	NA
RD-50	SMRD-50-GW081810	Tm-171	Filtered	-440 L U	610	190	290
RD-50	SMRD-50-GW081810	Tm-171	Suspended	0.6 U	110	32	52
RD-50	SMRD-50-GW081810	Tm-171	Total	-430 L	NA	190	NA
RD-50	SMRD-50-GW081810	U-233/234	Filtered	13.3	0.05	0.62	0.02
RD-50	SMRD-50-GW081810	U-233/234	Suspended	0.02	0.029	0.014	0.008
RD-50	SMRD-50-GW081810	U-233/234	Total	13.3	NA	0.62	NA
RD-50	SMRD-50-GW081810	U-235/236	Filtered	0.72	0.055	0.078	0.022
RD-50	SMRD-50-GW081810	U-235/236	Suspended	0.008 U	0.036	0.01	0.01
RD-50	SMRD-50-GW081810	U-235/236	Total	0.727	NA	0.078	NA
RD-50	SMRD-50-GW081810	U-238	Filtered	10.6	0.04	0.51	0.01
RD-50	SMRD-50-GW081810	U-238	Suspended	0.007 U	0.033	0.011	0.01
RD-50	SMRD-50-GW081810	U-238	Total	10.6	NA	0.51	NA
RD-54A	SMRD-54A-GW090210	Ac-227	Filtered	-1.2 U	7.2	2.1	3.4
RD-54A	SMRD-54A-GW090210	Ac-227	Suspended	-1.2 U	4	1.2	2
RD-54A	SMRD-54A-GW090210	Ac-227	Total	-2.4	NA	2.4	NA
RD-54A	SMRD-54A-GW090210	Ac-228	Filtered	3.8 B	4.5	1.5	2.1
RD-54A	SMRD-54A-GW090210	Ac-228	Suspended	-0.6 U	3.3	1.2	1.6
RD-54A	SMRD-54A-GW090210	Ac-228	Total	3.3 B	NA	1.9	NA
RD-54A	SMRD-54A-GW090210	Ag-108	Filtered	0.03 U R	0.1	0.03	0.048
RD-54A	SMRD-54A-GW090210	Ag-108	Suspended	-0.0006 U R	0.056	0.016	0.027
RD-54A	SMRD-54A-GW090210	Ag-108	Total	0.029 R	NA	0.034	NA
RD-54A	SMRD-54A-GW090210	Ag-108m	Filtered	0.32 U R	1.1	0.33	0.52
RD-54A	SMRD-54A-GW090210	Ag-108m	Suspended	-0.007 U R	0.6	0.18	0.29
RD-54A	SMRD-54A-GW090210	Ag-108m	Total	0.31 R	NA	0.37	NA
RD-54A	SMRD-54A-GW090210	Ba-133	Filtered	0.9 U R	11	3.2	5.2
RD-54A	SMRD-54A-GW090210	Ba-133	Suspended	-0.1 U R	5.1	1.5	2.5
RD-54A	SMRD-54A-GW090210	Ba-133	Total	0.8 R	NA	3.5	NA
RD-54A	SMRD-54A-GW090210	Ba-137m	Filtered	0.27 U	1.2	0.36	0.57
RD-54A	SMRD-54A-GW090210	Ba-137m	Suspended	0.002 U	0.68	0.2	0.32
RD-54A	SMRD-54A-GW090210	Ba-137m	Total	0.27	NA	0.41	NA
RD-54A	SMRD-54A-GW090210	Bi-212	Filtered	0.0001 U	12	3.3	5.5
RD-54A	SMRD-54A-GW090210	Bi-212	Suspended	1.2 U	6.7	2	3.2
RD-54A	SMRD-54A-GW090210	Bi-212	Total	1.2	NA	3.9	NA
RD-54A	SMRD-54A-GW090210	Bi-214	Filtered	-1.3 U	3.1	2	1.5
RD-54A	SMRD-54A-GW090210	Bi-214	Suspended	0.72 U	1.9	0.71	0.91
RD-54A	SMRD-54A-GW090210	Bi-214	Total	-0.6	NA	2.1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW090210	Cd-113m	Filtered	1600 U	15000	4400	7200
RD-54A	SMRD-54A-GW090210	Cd-113m	Suspended	70 U	7300	2100	3500
RD-54A	SMRD-54A-GW090210	Cd-113m	Total	1600	NA	4900	NA
RD-54A	SMRD-54A-GW090210	Cf-249	Filtered	-0.08 U R	5.7	1.6	2.7
RD-54A	SMRD-54A-GW090210	Cf-249	Suspended	0.78 U B	2.6	0.78	1.3
RD-54A	SMRD-54A-GW090210	Cf-249	Total	0.7 B R	NA	1.8	NA
RD-54A	SMRD-54A-GW090210	Co-60	Filtered	0.18 U	1.6	0.44	0.71
RD-54A	SMRD-54A-GW090210	Co-60	Suspended	-0.04 U	0.72	0.2	0.33
RD-54A	SMRD-54A-GW090210	Co-60	Total	0.14	NA	0.49	NA
RD-54A	SMRD-54A-GW090210	Cs-134	Filtered	-0.07 U	1.9	0.54	0.89
RD-54A	SMRD-54A-GW090210	Cs-134	Suspended	0.01 U	0.87	0.25	0.42
RD-54A	SMRD-54A-GW090210	Cs-134	Total	-0.06	NA	0.6	NA
RD-54A	SMRD-54A-GW090210	Cs-137	Filtered	0.29 U	1.3	0.38	0.6
RD-54A	SMRD-54A-GW090210	Cs-137	Suspended	0.002 U	0.72	0.21	0.34
RD-54A	SMRD-54A-GW090210	Cs-137	Total	0.29	NA	0.43	NA
RD-54A	SMRD-54A-GW090210	Eu-152	Filtered	1.01 U	3	0.9	1.4
RD-54A	SMRD-54A-GW090210	Eu-152	Suspended	-0.43 U	2	0.58	0.95
RD-54A	SMRD-54A-GW090210	Eu-152	Total	0.6	NA	1.1	NA
RD-54A	SMRD-54A-GW090210	Eu-154	Filtered	-0.007 U	13	3.8	6.3
RD-54A	SMRD-54A-GW090210	Eu-154	Suspended	-0.6 U	6.8	2	3.2
RD-54A	SMRD-54A-GW090210	Eu-154	Total	-0.6	NA	4.3	NA
RD-54A	SMRD-54A-GW090210	Eu-155	Filtered	1.04 U	3.2	0.96	1.5
RD-54A	SMRD-54A-GW090210	Eu-155	Suspended	0.1 U	1.3	0.38	0.63
RD-54A	SMRD-54A-GW090210	Eu-155	Total	1.1	NA	1	NA
RD-54A	SMRD-54A-GW090210	gross_alpha	Filtered	5.19	0.41	0.45	0.21
RD-54A	SMRD-54A-GW090210	gross_alpha	Suspended	0.33 U	0.62	0.19	0.34
RD-54A	SMRD-54A-GW090210	gross_alpha	Total	5.52	NA	0.49	NA
RD-54A	SMRD-54A-GW090210	gross_beta	Filtered	7.04	1.3	0.69	0.75
RD-54A	SMRD-54A-GW090210	gross_beta	Suspended	0.1 U	0.82	0.24	0.49
RD-54A	SMRD-54A-GW090210	gross_beta	Total	7.14	NA	0.73	NA
RD-54A	SMRD-54A-GW090210	H-3	Filtered	19 U	130	39	64
RD-54A	SMRD-54A-GW090210	H-3	Suspended	-3.4 U R	23	5.9	10
RD-54A	SMRD-54A-GW090210	H-3	Total	15 R	NA	40	NA
RD-54A	SMRD-54A-GW090210	Ho-166m	Filtered	-0.62 U	2.4	0.7	1.1
RD-54A	SMRD-54A-GW090210	Ho-166m	Suspended	-0.008 U	1.1	0.32	0.53
RD-54A	SMRD-54A-GW090210	Ho-166m	Total	-0.63	NA	0.77	NA
RD-54A	SMRD-54A-GW090210	K-40	Filtered	11.9	18	5.5	8
RD-54A	SMRD-54A-GW090210	K-40	Suspended	-2.1 U	12	3.2	5.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW090210	K-40	Total	9.8	NA	6.4	NA
RD-54A	SMRD-54A-GW090210	Na-22	Filtered	0.005 U	1.7	0.48	0.79
RD-54A	SMRD-54A-GW090210	Na-22	Suspended	0.02 U	0.83	0.24	0.39
RD-54A	SMRD-54A-GW090210	Na-22	Total	0.02	NA	0.53	NA
RD-54A	SMRD-54A-GW090210	Nb-94	Filtered	0.46 U	1.2	0.36	0.56
RD-54A	SMRD-54A-GW090210	Nb-94	Suspended	0 U	0.79	0.23	0.38
RD-54A	SMRD-54A-GW090210	Nb-94	Total	0.46	NA	0.43	NA
RD-54A	SMRD-54A-GW090210	Np-236	Filtered	0.002 U	2.6	0.77	1.3
RD-54A	SMRD-54A-GW090210	Np-236	Suspended	0.23 U	1.2	0.36	0.59
RD-54A	SMRD-54A-GW090210	Np-236	Total	0.23	NA	0.85	NA
RD-54A	SMRD-54A-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-54A	SMRD-54A-GW090210	Np-239	Filtered	1 U	7.5	2.2	3.6
RD-54A	SMRD-54A-GW090210	Np-239	Suspended	0.8 U	3.6	1.1	1.8
RD-54A	SMRD-54A-GW090210	Np-239	Total	1.8	NA	2.5	NA
RD-54A	SMRD-54A-GW090210	Pa-231	Filtered	23 U	54	16	26
RD-54A	SMRD-54A-GW090210	Pa-231	Suspended	5.8 U	27	7.9	13
RD-54A	SMRD-54A-GW090210	Pa-231	Total	29	NA	18	NA
RD-54A	SMRD-54A-GW090210	Pb-212	Filtered	1.31	2.6	0.94	1.2
RD-54A	SMRD-54A-GW090210	Pb-212	Suspended	-0.1 U	1.2	0.4	0.6
RD-54A	SMRD-54A-GW090210	Pb-212	Total	1.2	NA	1	NA
RD-54A	SMRD-54A-GW090210	Pb-214	Filtered	-1.4 U	3.1	3.5	1.5
RD-54A	SMRD-54A-GW090210	Pb-214	Suspended	-0.3 U	1.4	0.48	0.67
RD-54A	SMRD-54A-GW090210	Pb-214	Total	-1.7	NA	3.5	NA
RD-54A	SMRD-54A-GW090210	Sb-125	Filtered	-1.6 U	14	4.1	6.8
RD-54A	SMRD-54A-GW090210	Sb-125	Suspended	0.8 U	6.4	1.9	3.1
RD-54A	SMRD-54A-GW090210	Sb-125	Total	-0.9	NA	4.6	NA
RD-54A	SMRD-54A-GW090210	Sn-126	Filtered	-0.22 U	1.5	0.43	0.7
RD-54A	SMRD-54A-GW090210	Sn-126	Suspended	0.14 U	0.8	0.24	0.38
RD-54A	SMRD-54A-GW090210	Sn-126	Total	-0.08	NA	0.49	NA
RD-54A	SMRD-54A-GW090210	Sr-90	Filtered	-0.029 U	0.12	0.035	0.071
RD-54A	SMRD-54A-GW090210	Sr-90	Suspended	-0.004 U	0.11	0.031	0.062
RD-54A	SMRD-54A-GW090210	Sr-90	Total	-0.033	NA	0.047	NA
RD-54A	SMRD-54A-GW090210	Te-125m	Filtered	-0.38 U	3.2	0.96	1.6
RD-54A	SMRD-54A-GW090210	Te-125m	Suspended	0.18 U	1.5	0.44	0.72
RD-54A	SMRD-54A-GW090210	Te-125m	Total	-0.2	NA	1.1	NA
RD-54A	SMRD-54A-GW090210	Th-231	Filtered	0.133	0.018	0.019	0.006
RD-54A	SMRD-54A-GW090210	Th-231	Suspended	0.0054 U	0.0073	0.0038	0.0063
RD-54A	SMRD-54A-GW090210	Th-231	Total	0.139	NA	0.02	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW090210	Th-234	Filtered	12.3	21	6.7	10
RD-54A	SMRD-54A-GW090210	Th-234	Suspended	2.6 U	9.1	3	4.4
RD-54A	SMRD-54A-GW090210	Th-234	Total	15	NA	7.3	NA
RD-54A	SMRD-54A-GW090210	Tl-208	Filtered	-0.44 U	1.8	0.89	0.85
RD-54A	SMRD-54A-GW090210	Tl-208	Suspended	0.89	0.89	0.36	0.43
RD-54A	SMRD-54A-GW090210	Tl-208	Total	0.45	NA	0.96	NA
RD-54A	SMRD-54A-GW090210	Tm-171	Filtered	110 U	360	110	170
RD-54A	SMRD-54A-GW090210	Tm-171	Suspended	12 U	130	40	65
RD-54A	SMRD-54A-GW090210	Tm-171	Total	120	NA	110	NA
RD-54A	SMRD-54A-GW090210	U-233/234	Filtered	3.74	0.01	0.18	0.005
RD-54A	SMRD-54A-GW090210	U-233/234	Suspended	0.0237	0.016	0.0093	0.005
RD-54A	SMRD-54A-GW090210	U-233/234	Total	3.77	NA	0.18	NA
RD-54A	SMRD-54A-GW090210	U-235/236	Filtered	0.133	0.018	0.019	0.006
RD-54A	SMRD-54A-GW090210	U-235/236	Suspended	0.0054 U	0.0073	0.0038	0.0063
RD-54A	SMRD-54A-GW090210	U-235/236	Total	0.139	NA	0.02	NA
RD-54A	SMRD-54A-GW090210	U-238	Filtered	2.76	0.005	0.14	0.005
RD-54A	SMRD-54A-GW090210	U-238	Suspended	0.0243	0.016	0.009	0.005
RD-54A	SMRD-54A-GW090210	U-238	Total	2.79	NA	0.14	NA
RD-54B	SMRD-054B-GW083110	Ac-227	Filtered	-3.6 U	9.6	2.9	4.7
RD-54B	SMRD-054B-GW083110	Ac-227	Suspended	-2 U	4.2	1.3	2
RD-54B	SMRD-054B-GW083110	Ac-227	Total	-5.6	NA	3.2	NA
RD-54B	SMRD-054B-GW083110	Ac-228	Filtered	2.7	4.7	1.4	2.1
RD-54B	SMRD-054B-GW083110	Ac-228	Suspended	0.55 U	2.3	0.66	1
RD-54B	SMRD-054B-GW083110	Ac-228	Total	3.2	NA	1.6	NA
RD-54B	SMRD-054B-GW083110	Ag-108	Filtered	-0.01 U R	0.095	0.028	0.045
RD-54B	SMRD-054B-GW083110	Ag-108	Suspended	0.007 U R	0.044	0.013	0.021
RD-54B	SMRD-054B-GW083110	Ag-108	Total	-0.003 R	NA	0.03	NA
RD-54B	SMRD-054B-GW083110	Ag-108m	Filtered	-0.1 U R	1	0.3	0.48
RD-54B	SMRD-054B-GW083110	Ag-108m	Suspended	0.07 U R	0.47	0.14	0.22
RD-54B	SMRD-054B-GW083110	Ag-108m	Total	-0.03 R	NA	0.33	NA
RD-54B	SMRD-054B-GW083110	Ba-133	Filtered	3.5 U R	13	3.7	6
RD-54B	SMRD-054B-GW083110	Ba-133	Suspended	1.3 U R	5.7	1.7	2.7
RD-54B	SMRD-054B-GW083110	Ba-133	Total	4.8 R	NA	4.1	NA
RD-54B	SMRD-054B-GW083110	Ba-137m	Filtered	0.46 U	1.3	0.38	0.59
RD-54B	SMRD-054B-GW083110	Ba-137m	Suspended	0.17 U	0.6	0.19	0.28
RD-54B	SMRD-054B-GW083110	Ba-137m	Total	0.63	NA	0.43	NA
RD-54B	SMRD-054B-GW083110	Bi-212	Filtered	2.8 U	9.4	2.8	4.3
RD-54B	SMRD-054B-GW083110	Bi-212	Suspended	1.6 U	5.8	1.7	2.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-054B-GW083110	Bi-212	Total	4.3	NA	3.3	NA
RD-54B	SMRD-054B-GW083110	Bi-214	Filtered	-0.7 U	3.2	1.3	1.5
RD-54B	SMRD-054B-GW083110	Bi-214	Suspended	-0.51 U	1.6	0.83	0.78
RD-54B	SMRD-054B-GW083110	Bi-214	Total	-1.2	NA	1.5	NA
RD-54B	SMRD-054B-GW083110	Cd-113m	Filtered	2900 U	14000	4100	6500
RD-54B	SMRD-054B-GW083110	Cd-113m	Suspended	-1000 U	7100	2100	3400
RD-54B	SMRD-054B-GW083110	Cd-113m	Total	1900	NA	4600	NA
RD-54B	SMRD-054B-GW083110	Cf-249	Filtered	0.2 U R	5.4	1.6	2.6
RD-54B	SMRD-054B-GW083110	Cf-249	Suspended	-0.24 U R	3.1	0.92	1.5
RD-54B	SMRD-054B-GW083110	Cf-249	Total	-0.04 R	NA	1.8	NA
RD-54B	SMRD-054B-GW083110	Co-60	Filtered	0.24 U	1.6	0.45	0.71
RD-54B	SMRD-054B-GW083110	Co-60	Suspended	-0.08 U	0.83	0.23	0.38
RD-54B	SMRD-054B-GW083110	Co-60	Total	0.17	NA	0.51	NA
RD-54B	SMRD-054B-GW083110	Cs-134	Filtered	-0.28 U	1.5	0.45	0.73
RD-54B	SMRD-054B-GW083110	Cs-134	Suspended	-0.26 U	0.82	0.25	0.39
RD-54B	SMRD-054B-GW083110	Cs-134	Total	-0.53 SK	NA	0.51	NA
RD-54B	SMRD-054B-GW083110	Cs-137	Filtered	0.49 U	1.3	0.4	0.63
RD-54B	SMRD-054B-GW083110	Cs-137	Suspended	0.17 U	0.63	0.2	0.3
RD-54B	SMRD-054B-GW083110	Cs-137	Total	0.66	NA	0.45	NA
RD-54B	SMRD-054B-GW083110	Eu-152	Filtered	0.6 U	3.8	1.1	1.8
RD-54B	SMRD-054B-GW083110	Eu-152	Suspended	0.1 U	2	0.58	0.95
RD-54B	SMRD-054B-GW083110	Eu-152	Total	0.7	NA	1.3	NA
RD-54B	SMRD-054B-GW083110	Eu-154	Filtered	-0.8 U	12	3.3	5.4
RD-54B	SMRD-054B-GW083110	Eu-154	Suspended	0.05 U	5.7	1.6	2.7
RD-54B	SMRD-054B-GW083110	Eu-154	Total	-0.8	NA	3.7	NA
RD-54B	SMRD-054B-GW083110	Eu-155	Filtered	0.2 U	3.3	0.97	1.6
RD-54B	SMRD-054B-GW083110	Eu-155	Suspended	0.3 U	1.2	0.37	0.6
RD-54B	SMRD-054B-GW083110	Eu-155	Total	0.5 SK	NA	1	NA
RD-54B	SMRD-054B-GW083110	gross_alpha	Filtered	0.59	0.43	0.17	0.23
RD-54B	SMRD-054B-GW083110	gross_alpha	Suspended	0.64	0.41	0.18	0.21
RD-54B	SMRD-054B-GW083110	gross_alpha	Total	1.23	NA	0.25	NA
RD-54B	SMRD-054B-GW083110	gross_beta	Filtered	2.46	1.9	0.68	1.1
RD-54B	SMRD-054B-GW083110	gross_beta	Suspended	0.33 U	0.81	0.25	0.48
RD-54B	SMRD-054B-GW083110	gross_beta	Total	2.79	NA	0.73	NA
RD-54B	SMRD-054B-GW083110	H-3	Filtered	11 U	130	38	63
RD-54B	SMRD-054B-GW083110	H-3	Suspended	-4.8 U R	21	5.3	9.3
RD-54B	SMRD-054B-GW083110	H-3	Total	6 R	NA	39	NA
RD-54B	SMRD-054B-GW083110	Ho-166m	Filtered	0.5 U	2.2	0.63	1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-054B-GW083110	Ho-166m	Suspended	-0.23 U	1.2	0.35	0.57
RD-54B	SMRD-054B-GW083110	Ho-166m	Total	0.27 SK	NA	0.72	NA
RD-54B	SMRD-054B-GW083110	K-40	Filtered	0 U	13	3.4	5.5
RD-54B	SMRD-054B-GW083110	K-40	Suspended	-4.7 U	11	6.5	5.2
RD-54B	SMRD-054B-GW083110	K-40	Total	-4.7	NA	7.3	NA
RD-54B	SMRD-054B-GW083110	Na-22	Filtered	0 U	1.9	0.53	0.88
RD-54B	SMRD-054B-GW083110	Na-22	Suspended	0.07 U	0.84	0.24	0.38
RD-54B	SMRD-054B-GW083110	Na-22	Total	0.07	NA	0.58	NA
RD-54B	SMRD-054B-GW083110	Nb-94	Filtered	0.14 U	1.1	0.3	0.49
RD-54B	SMRD-054B-GW083110	Nb-94	Suspended	0.03 U	0.58	0.16	0.27
RD-54B	SMRD-054B-GW083110	Nb-94	Total	0.17	NA	0.34	NA
RD-54B	SMRD-054B-GW083110	Np-236	Filtered	-0.94 U	2.7	0.83	1.3
RD-54B	SMRD-054B-GW083110	Np-236	Suspended	-0.17 U	1.3	0.38	0.62
RD-54B	SMRD-054B-GW083110	Np-236	Total	-1.1 SK	NA	0.91	NA
RD-54B	SMRD-054B-GW083110	Np-239	Filtered	5.2	7	2.2	3.4
RD-54B	SMRD-054B-GW083110	Np-239	Suspended	-0.8 U	3.6	1.1	1.7
RD-54B	SMRD-054B-GW083110	Np-239	Total	4.4	NA	2.4	NA
RD-54B	SMRD-054B-GW083110	Pa-231	Filtered	0.07 U	50	15	24
RD-54B	SMRD-054B-GW083110	Pa-231	Suspended	6.6 U	25	7.4	12
RD-54B	SMRD-054B-GW083110	Pa-231	Total	7	NA	16	NA
RD-54B	SMRD-054B-GW083110	Pb-212	Filtered	0.59 U	2.6	0.95	1.3
RD-54B	SMRD-054B-GW083110	Pb-212	Suspended	2.15	1.1	0.46	0.53
RD-54B	SMRD-054B-GW083110	Pb-212	Total	2.7	NA	1.1	NA
RD-54B	SMRD-054B-GW083110	Pb-214	Filtered	-1.2 U	3.1	2.6	1.5
RD-54B	SMRD-054B-GW083110	Pb-214	Suspended	-1.2 U	1.5	1.6	0.7
RD-54B	SMRD-054B-GW083110	Pb-214	Total	-2.4	NA	3.1	NA
RD-54B	SMRD-054B-GW083110	Sb-125	Filtered	-0.1 U	14	4	6.5
RD-54B	SMRD-054B-GW083110	Sb-125	Suspended	-0.4 U	6.6	1.9	3.2
RD-54B	SMRD-054B-GW083110	Sb-125	Total	-0.5 SK	NA	4.4	NA
RD-54B	SMRD-054B-GW083110	Sn-126	Filtered	-0.05 U	1.3	0.35	0.58
RD-54B	SMRD-054B-GW083110	Sn-126	Suspended	0.03 U	0.81	0.23	0.38
RD-54B	SMRD-054B-GW083110	Sn-126	Total	-0.02	NA	0.42	NA
RD-54B	SMRD-054B-GW083110	Sr-90	Filtered	0.097	0.16	0.051	0.097
RD-54B	SMRD-054B-GW083110	Sr-90	Suspended	0.026 U	0.11	0.033	0.063
RD-54B	SMRD-054B-GW083110	Sr-90	Total	0.123	NA	0.061	NA
RD-54B	SMRD-054B-GW083110	Te-125m	Filtered	-0.03 U	3.1	0.92	1.5
RD-54B	SMRD-054B-GW083110	Te-125m	Suspended	-0.08 U	1.5	0.45	0.74
RD-54B	SMRD-054B-GW083110	Te-125m	Total	-0.1 SK	NA	1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-054B-GW083110	Th-231	Filtered	0.0054 U	0.0073	0.0038	0.0063
RD-54B	SMRD-054B-GW083110	Th-231	Suspended	0.0014 U	0.034	0.0064	0.011
RD-54B	SMRD-054B-GW083110	Th-231	Total	0.0068	NA	0.0074	NA
RD-54B	SMRD-054B-GW083110	Th-234	Filtered	15.6	25	9.5	12
RD-54B	SMRD-054B-GW083110	Th-234	Suspended	-0.7 U	7	2.1	3.4
RD-54B	SMRD-054B-GW083110	Th-234	Total	14.9	NA	9.7	NA
RD-54B	SMRD-054B-GW083110	Tl-208	Filtered	1.1	1.6	0.61	0.76
RD-54B	SMRD-054B-GW083110	Tl-208	Suspended	0.31 U	0.88	0.25	0.42
RD-54B	SMRD-054B-GW083110	Tl-208	Total	1.41	NA	0.66	NA
RD-54B	SMRD-054B-GW083110	Tm-171	Filtered	-50 U	350	110	170
RD-54B	SMRD-054B-GW083110	Tm-171	Suspended	-45 U	130	38	62
RD-54B	SMRD-054B-GW083110	Tm-171	Total	-90	NA	110	NA
RD-54B	SMRD-054B-GW083110	U-233/234	Filtered	0.054	0.016	0.013	0.005
RD-54B	SMRD-054B-GW083110	U-233/234	Suspended	0.023	0.04	0.015	0.017
RD-54B	SMRD-054B-GW083110	U-233/234	Total	0.078	NA	0.02	NA
RD-54B	SMRD-054B-GW083110	U-235/236	Filtered	0.0054 U	0.0073	0.0038	0.0063
RD-54B	SMRD-054B-GW083110	U-235/236	Suspended	0.0014 U	0.034	0.0064	0.011
RD-54B	SMRD-054B-GW083110	U-235/236	Total	0.0068	NA	0.0075	NA
RD-54B	SMRD-054B-GW083110	U-238	Filtered	0.037	0.02	0.011	0.007
RD-54B	SMRD-054B-GW083110	U-238	Suspended	0.033	0.031	0.015	0.011
RD-54B	SMRD-054B-GW083110	U-238	Total	0.07	NA	0.018	NA
RD-54C	SMRD-054C-GW090110	Ac-227	Filtered	-3.6 U	8.7	2.6	4.2
RD-54C	SMRD-054C-GW090110	Ac-227	Suspended	0.2 U	6.4	1.9	3.1
RD-54C	SMRD-054C-GW090110	Ac-227	Total	-3.4	NA	3.2	NA
RD-54C	SMRD-054C-GW090110	Ac-228	Filtered	5.5	3.6	1.1	1.7
RD-54C	SMRD-054C-GW090110	Ac-228	Suspended	1.26 B	2.6	0.79	1.2
RD-54C	SMRD-054C-GW090110	Ac-228	Total	6.8	NA	1.3	NA
RD-54C	SMRD-054C-GW090110	Ag-108	Filtered	0.015 U R	0.091	0.027	0.043
RD-54C	SMRD-054C-GW090110	Ag-108	Suspended	0.001 U R	0.063	0.018	0.03
RD-54C	SMRD-054C-GW090110	Ag-108	Total	0.016 R	NA	0.032	NA
RD-54C	SMRD-054C-GW090110	Ag-108m	Filtered	0.16 U R	0.97	0.29	0.47
RD-54C	SMRD-054C-GW090110	Ag-108m	Suspended	0.01 U R	0.67	0.2	0.33
RD-54C	SMRD-054C-GW090110	Ag-108m	Total	0.17 R	NA	0.35	NA
RD-54C	SMRD-054C-GW090110	Ba-133	Filtered	-2 U R	13	3.8	6.2
RD-54C	SMRD-054C-GW090110	Ba-133	Suspended	0.01 U R	6.1	1.8	3
RD-54C	SMRD-054C-GW090110	Ba-133	Total	-2 R	NA	4.2	NA
RD-54C	SMRD-054C-GW090110	Ba-137m	Filtered	0.003 U	1.2	0.34	0.56
RD-54C	SMRD-054C-GW090110	Ba-137m	Suspended	-0.02 U	0.84	0.25	0.41

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-054C-GW090110	Ba-137m	Total	-0.02	NA	0.42	NA
RD-54C	SMRD-054C-GW090110	Bi-212	Filtered	8.5	8.7	3.4	4.1
RD-54C	SMRD-054C-GW090110	Bi-212	Suspended	2 U	6.6	1.9	3.1
RD-54C	SMRD-054C-GW090110	Bi-212	Total	10.5	NA	3.8	NA
RD-54C	SMRD-054C-GW090110	Bi-214	Filtered	1.1 U	3	1	1.4
RD-54C	SMRD-054C-GW090110	Bi-214	Suspended	0.87 U	1.9	0.79	0.93
RD-54C	SMRD-054C-GW090110	Bi-214	Total	2	NA	1.3	NA
RD-54C	SMRD-054C-GW090110	Cd-113m	Filtered	-2700 U	15000	4400	7200
RD-54C	SMRD-054C-GW090110	Cd-113m	Suspended	-1900 U	7900	2400	3800
RD-54C	SMRD-054C-GW090110	Cd-113m	Total	-4600	NA	5000	NA
RD-54C	SMRD-054C-GW090110	Cf-249	Filtered	-1.2 U R	5.9	1.8	2.9
RD-54C	SMRD-054C-GW090110	Cf-249	Suspended	0.13 U R	3.2	0.94	1.5
RD-54C	SMRD-054C-GW090110	Cf-249	Total	-1.1 R	NA	2	NA
RD-54C	SMRD-054C-GW090110	Co-60	Filtered	0.18 U	1.2	0.34	0.54
RD-54C	SMRD-054C-GW090110	Co-60	Suspended	0 U	0.9	0.26	0.42
RD-54C	SMRD-054C-GW090110	Co-60	Total	0.18	NA	0.42	NA
RD-54C	SMRD-054C-GW090110	Cs-134	Filtered	0.26 U	1.5	0.44	0.72
RD-54C	SMRD-054C-GW090110	Cs-134	Suspended	-0.32 U	0.96	0.29	0.46
RD-54C	SMRD-054C-GW090110	Cs-134	Total	-0.05 SK	NA	0.53	NA
RD-54C	SMRD-054C-GW090110	Cs-137	Filtered	0.003 U	1.2	0.36	0.59
RD-54C	SMRD-054C-GW090110	Cs-137	Suspended	-0.03 U	0.89	0.26	0.43
RD-54C	SMRD-054C-GW090110	Cs-137	Total	-0.02	NA	0.45	NA
RD-54C	SMRD-054C-GW090110	Eu-152	Filtered	0.02 U	2.5	0.72	1.2
RD-54C	SMRD-054C-GW090110	Eu-152	Suspended	-0.06 U	1.9	0.56	0.92
RD-54C	SMRD-054C-GW090110	Eu-152	Total	-0.03	NA	0.91	NA
RD-54C	SMRD-054C-GW090110	Eu-154	Filtered	-2.8 U	10	3.1	4.9
RD-54C	SMRD-054C-GW090110	Eu-154	Suspended	-0.4 U	4.7	1.4	2.2
RD-54C	SMRD-054C-GW090110	Eu-154	Total	-3.2	NA	3.4	NA
RD-54C	SMRD-054C-GW090110	Eu-155	Filtered	-0.07 U	3.5	1	1.7
RD-54C	SMRD-054C-GW090110	Eu-155	Suspended	0.35 U	1.4	0.41	0.67
RD-54C	SMRD-054C-GW090110	Eu-155	Total	0.3 SK	NA	1.1	NA
RD-54C	SMRD-054C-GW090110	gross_alpha	Filtered	0.39	0.42	0.15	0.22
RD-54C	SMRD-054C-GW090110	gross_alpha	Suspended	0.51	0.46	0.17	0.24
RD-54C	SMRD-054C-GW090110	gross_alpha	Total	0.89	NA	0.23	NA
RD-54C	SMRD-054C-GW090110	gross_beta	Filtered	3.31	1.3	0.55	0.78
RD-54C	SMRD-054C-GW090110	gross_beta	Suspended	0.07 U	0.75	0.21	0.44
RD-54C	SMRD-054C-GW090110	gross_beta	Total	3.38	NA	0.59	NA
RD-54C	SMRD-054C-GW090110	H-3	Filtered	-41 U	140	42	70

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-054C-GW090110	H-3	Suspended	-16.9 R U	24	5.3	11
RD-54C	SMRD-054C-GW090110	H-3	Total	-57 R	NA	43	NA
RD-54C	SMRD-054C-GW090110	Ho-166m	Filtered	0.01 U	2.1	0.62	1
RD-54C	SMRD-054C-GW090110	Ho-166m	Suspended	0.008 U	1.2	0.34	0.56
RD-54C	SMRD-054C-GW090110	Ho-166m	Total	0.02 SK	NA	0.71	NA
RD-54C	SMRD-054C-GW090110	K-40	Filtered	10.9 U	24	7	12
RD-54C	SMRD-054C-GW090110	K-40	Suspended	9.9	14	3.9	6.8
RD-54C	SMRD-054C-GW090110	K-40	Total	20.9	NA	8.1	NA
RD-54C	SMRD-054C-GW090110	Na-22	Filtered	0.22 U	1.4	0.4	0.64
RD-54C	SMRD-054C-GW090110	Na-22	Suspended	0.1 U	0.66	0.19	0.3
RD-54C	SMRD-054C-GW090110	Na-22	Total	0.32	NA	0.44	NA
RD-54C	SMRD-054C-GW090110	Nb-94	Filtered	0.23 U	1.1	0.33	0.53
RD-54C	SMRD-054C-GW090110	Nb-94	Suspended	0.04 U	0.74	0.22	0.36
RD-54C	SMRD-054C-GW090110	Nb-94	Total	0.27	NA	0.4	NA
RD-54C	SMRD-054C-GW090110	Np-236	Filtered	0.08 U	2.4	0.72	1.2
RD-54C	SMRD-054C-GW090110	Np-236	Suspended	0.72 SK	1.3	0.38	0.61
RD-54C	SMRD-054C-GW090110	Np-236	Total	0.8 SK	NA	0.82	NA
RD-54C	SMRD-054C-GW090110	Np-239	Filtered	1.1 U	7.5	2.2	3.6
RD-54C	SMRD-054C-GW090110	Np-239	Suspended	-1.1 U	3.9	1.2	1.9
RD-54C	SMRD-054C-GW090110	Np-239	Total	0.07	NA	2.5	NA
RD-54C	SMRD-054C-GW090110	Pa-231	Filtered	-8 U	56	17	27
RD-54C	SMRD-054C-GW090110	Pa-231	Suspended	-0.5 U	29	8.4	14
RD-54C	SMRD-054C-GW090110	Pa-231	Total	-8	NA	19	NA
RD-54C	SMRD-054C-GW090110	Pb-212	Filtered	-0.6 U	3.1	1.2	1.5
RD-54C	SMRD-054C-GW090110	Pb-212	Suspended	0.14 U	1.5	0.44	0.73
RD-54C	SMRD-054C-GW090110	Pb-212	Total	-0.4	NA	1.3	NA
RD-54C	SMRD-054C-GW090110	Pb-214	Filtered	-0.6 U	2.6	1.1	1.2
RD-54C	SMRD-054C-GW090110	Pb-214	Suspended	0.46 U	1.6	0.61	0.77
RD-54C	SMRD-054C-GW090110	Pb-214	Total	-0.1	NA	1.2	NA
RD-54C	SMRD-054C-GW090110	Sb-125	Filtered	2.8 U	13	3.9	6.4
RD-54C	SMRD-054C-GW090110	Sb-125	Suspended	-0.3 U	7.1	2.1	3.4
RD-54C	SMRD-054C-GW090110	Sb-125	Total	2.5 SK	NA	4.5	NA
RD-54C	SMRD-054C-GW090110	Sn-126	Filtered	0.32 U	1.2	0.35	0.56
RD-54C	SMRD-054C-GW090110	Sn-126	Suspended	0.43	0.74	0.23	0.35
RD-54C	SMRD-054C-GW090110	Sn-126	Total	0.75	NA	0.42	NA
RD-54C	SMRD-054C-GW090110	Sr-90	Filtered	0.052 U	0.11	0.034	0.064
RD-54C	SMRD-054C-GW090110	Sr-90	Suspended	0.036 U	0.12	0.035	0.067
RD-54C	SMRD-054C-GW090110	Sr-90	Total	0.088	NA	0.049	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-054C-GW090110	Te-125m	Filtered	0.65 U	3	0.91	1.5
RD-54C	SMRD-054C-GW090110	Te-125m	Suspended	-0.07 U	1.6	0.48	0.79
RD-54C	SMRD-054C-GW090110	Te-125m	Total	0.6 SK	NA	1	NA
RD-54C	SMRD-054C-GW090110	Th-231	Filtered	-0.0044 U	0.029	0.0031	0.01
RD-54C	SMRD-054C-GW090110	Th-231	Suspended	0 U	0.0089	0.0033	0.0076
RD-54C	SMRD-054C-GW090110	Th-231	Total	-0.0044	NA	0.0045	NA
RD-54C	SMRD-054C-GW090110	Th-234	Filtered	-1.4 U	22	7.6	11
RD-54C	SMRD-054C-GW090110	Th-234	Suspended	3.7 U	8.1	2.8	4
RD-54C	SMRD-054C-GW090110	Th-234	Total	2.3	NA	8.1	NA
RD-54C	SMRD-054C-GW090110	Tl-208	Filtered	0.64 U	1.5	0.49	0.74
RD-54C	SMRD-054C-GW090110	Tl-208	Suspended	-0.12 U	1.1	0.32	0.52
RD-54C	SMRD-054C-GW090110	Tl-208	Total	0.53	NA	0.59	NA
RD-54C	SMRD-054C-GW090110	Tm-171	Filtered	40 U	400	120	190
RD-54C	SMRD-054C-GW090110	Tm-171	Suspended	-3 U	170	50	82
RD-54C	SMRD-054C-GW090110	Tm-171	Total	40	NA	130	NA
RD-54C	SMRD-054C-GW090110	U-233/234	Filtered	0.021 K	0.034	0.011	0.014
RD-54C	SMRD-054C-GW090110	U-233/234	Suspended	0.0369	0.0071	0.01	0.0061
RD-54C	SMRD-054C-GW090110	U-233/234	Total	0.058	NA	0.015	NA
RD-54C	SMRD-054C-GW090110	U-235/236	Filtered	-0.0044 U	0.029	0.0031	0.01
RD-54C	SMRD-054C-GW090110	U-235/236	Suspended	0 U	0.0089	0.0033	0.0076
RD-54C	SMRD-054C-GW090110	U-235/236	Total	-0.0044	NA	0.0045	NA
RD-54C	SMRD-054C-GW090110	U-238	Filtered	0.002 U	0.057	0.015	0.028
RD-54C	SMRD-054C-GW090110	U-238	Suspended	0.0184	0.019	0.0079	0.0061
RD-54C	SMRD-054C-GW090110	U-238	Total	0.02	NA	0.017	NA
RD-56A	SMRD-56A-GW082610	Ac-227	Filtered	-3 U	9	2.7	4.3
RD-56A	SMRD-56A-GW082610	Ac-227	Suspended	-0.1 U	3.6	1.1	1.7
RD-56A	SMRD-56A-GW082610	Ac-227	Total	-3.1	NA	2.9	NA
RD-56A	SMRD-56A-GW082610	Ac-228	Filtered	3.5	5.3	1.6	2.5
RD-56A	SMRD-56A-GW082610	Ac-228	Suspended	-0.03 U B	3	0.78	1.4
RD-56A	SMRD-56A-GW082610	Ac-228	Total	3.5	NA	1.8	NA
RD-56A	SMRD-56A-GW082610	Ag-108	Filtered	0 U R	0.12	0.035	0.057
RD-56A	SMRD-56A-GW082610	Ag-108	Suspended	0.019 U R	0.046	0.014	0.022
RD-56A	SMRD-56A-GW082610	Ag-108	Total	0.019 R	NA	0.037	NA
RD-56A	SMRD-56A-GW082610	Ag-108m	Filtered	0 U R	1.3	0.37	0.61
RD-56A	SMRD-56A-GW082610	Ag-108m	Suspended	0.2 U R	0.49	0.15	0.24
RD-56A	SMRD-56A-GW082610	Ag-108m	Total	0.2 R	NA	0.4	NA
RD-56A	SMRD-56A-GW082610	Ba-133	Filtered	-2.2 U R	11	3.4	5.5
RD-56A	SMRD-56A-GW082610	Ba-133	Suspended	0.5 U R	5.8	1.7	2.8

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW082610	Ba-133	Total	-1.7 R	NA	3.8	NA
RD-56A	SMRD-56A-GW082610	Ba-137m	Filtered	0.43 U	1.4	0.4	0.64
RD-56A	SMRD-56A-GW082610	Ba-137m	Suspended	-0.22 U	0.69	0.21	0.33
RD-56A	SMRD-56A-GW082610	Ba-137m	Total	0.21	NA	0.45	NA
RD-56A	SMRD-56A-GW082610	Bi-212	Filtered	4 U	12	3.7	5.7
RD-56A	SMRD-56A-GW082610	Bi-212	Suspended	3.9	6.1	1.9	2.9
RD-56A	SMRD-56A-GW082610	Bi-212	Total	7.8	NA	4.1	NA
RD-56A	SMRD-56A-GW082610	Bi-214	Filtered	-0.5 U	3.3	1.2	1.6
RD-56A	SMRD-56A-GW082610	Bi-214	Suspended	0.03 U	1.7	0.56	0.83
RD-56A	SMRD-56A-GW082610	Bi-214	Total	-0.5	NA	1.4	NA
RD-56A	SMRD-56A-GW082610	Cd-113m	Filtered	2300 U	15000	4300	7000
RD-56A	SMRD-56A-GW082610	Cd-113m	Suspended	-600 U	6900	2000	3300
RD-56A	SMRD-56A-GW082610	Cd-113m	Total	1700	NA	4800	NA
RD-56A	SMRD-56A-GW082610	Cf-249	Filtered	0.1 U R	6.1	1.8	2.9
RD-56A	SMRD-56A-GW082610	Cf-249	Suspended	-0.87 U R	3.1	0.92	1.5
RD-56A	SMRD-56A-GW082610	Cf-249	Total	-0.7 R	NA	2	NA
RD-56A	SMRD-56A-GW082610	Co-60	Filtered	0 U	1.5	0.4	0.67
RD-56A	SMRD-56A-GW082610	Co-60	Suspended	0 U	0.86	0.24	0.4
RD-56A	SMRD-56A-GW082610	Co-60	Total	0	NA	0.47	NA
RD-56A	SMRD-56A-GW082610	Cs-134	Filtered	-0.17 U	1.6	0.46	0.75
RD-56A	SMRD-56A-GW082610	Cs-134	Suspended	0.15 U	0.81	0.24	0.39
RD-56A	SMRD-56A-GW082610	Cs-134	Total	-0.02 SK	NA	0.52	NA
RD-56A	SMRD-56A-GW082610	Cs-137	Filtered	0.45 U	1.4	0.43	0.68
RD-56A	SMRD-56A-GW082610	Cs-137	Suspended	-0.23 U	0.73	0.22	0.35
RD-56A	SMRD-56A-GW082610	Cs-137	Total	0.22	NA	0.48	NA
RD-56A	SMRD-56A-GW082610	Eu-152	Filtered	0.7 U	3.5	1	1.7
RD-56A	SMRD-56A-GW082610	Eu-152	Suspended	-0.41 U	1.8	0.54	0.88
RD-56A	SMRD-56A-GW082610	Eu-152	Total	0.3	NA	1.2	NA
RD-56A	SMRD-56A-GW082610	Eu-154	Filtered	-1.6 U	12	3.6	5.8
RD-56A	SMRD-56A-GW082610	Eu-154	Suspended	0.5 U	6	1.7	2.8
RD-56A	SMRD-56A-GW082610	Eu-154	Total	-1.1	NA	4	NA
RD-56A	SMRD-56A-GW082610	Eu-155	Filtered	0.57 U	3.2	0.96	1.6
RD-56A	SMRD-56A-GW082610	Eu-155	Suspended	0.11 U	1	0.31	0.5
RD-56A	SMRD-56A-GW082610	Eu-155	Total	0.7 SK	NA	1	NA
RD-56A	SMRD-56A-GW082610	gross_alpha	Filtered	7.07	0.44	0.55	0.23
RD-56A	SMRD-56A-GW082610	gross_alpha	Suspended	4.56	0.55	0.48	0.28
RD-56A	SMRD-56A-GW082610	gross_alpha	Total	11.6	NA	0.73	NA
RD-56A	SMRD-56A-GW082610	gross_beta	Filtered	4.8	2.6	1	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW082610	gross_beta	Suspended	0.76	0.72	0.24	0.42
RD-56A	SMRD-56A-GW082610	gross_beta	Total	5.6	NA	1	NA
RD-56A	SMRD-56A-GW082610	H-3	Filtered	-2 U	140	40	66
RD-56A	SMRD-56A-GW082610	H-3	Suspended	-8 U R	24	6	11
RD-56A	SMRD-56A-GW082610	H-3	Total	-10 R	NA	41	NA
RD-56A	SMRD-56A-GW082610	Ho-166m	Filtered	0.003 U	2	0.58	0.95
RD-56A	SMRD-56A-GW082610	Ho-166m	Suspended	0.14 U	1.1	0.34	0.55
RD-56A	SMRD-56A-GW082610	Ho-166m	Total	0.14 SK	NA	0.67	NA
RD-56A	SMRD-56A-GW082610	K-40	Filtered	8.1	17	5.1	7.7
RD-56A	SMRD-56A-GW082610	K-40	Suspended	5.1 U	12	3.4	5.8
RD-56A	SMRD-56A-GW082610	K-40	Total	13.2	NA	6.2	NA
RD-56A	SMRD-56A-GW082610	Na-22	Filtered	-0.29 U	2	0.58	0.94
RD-56A	SMRD-56A-GW082610	Na-22	Suspended	-0.04 U	0.77	0.22	0.36
RD-56A	SMRD-56A-GW082610	Na-22	Total	-0.32	NA	0.62	NA
RD-56A	SMRD-56A-GW082610	Nb-94	Filtered	-0.33 U	1.4	0.41	0.66
RD-56A	SMRD-56A-GW082610	Nb-94	Suspended	0.18 U	0.56	0.17	0.26
RD-56A	SMRD-56A-GW082610	Nb-94	Total	-0.15	NA	0.44	NA
RD-56A	SMRD-56A-GW082610	Np-236	Filtered	0.05 U	3	0.89	1.5
RD-56A	SMRD-56A-GW082610	Np-236	Suspended	-0.4 U	1.3	0.4	0.65
RD-56A	SMRD-56A-GW082610	Np-236	Total	-0.35 SK	NA	0.97	NA
RD-56A	SMRD-56A-GW082610	Np-239	Filtered	0.5 U	7.8	2.3	3.7
RD-56A	SMRD-56A-GW082610	Np-239	Suspended	-0.3 U	3.6	1.1	1.8
RD-56A	SMRD-56A-GW082610	Np-239	Total	0.3	NA	2.5	NA
RD-56A	SMRD-56A-GW082610	Pa-231	Filtered	-0.1 U	53	15	25
RD-56A	SMRD-56A-GW082610	Pa-231	Suspended	8.1 U	22	6.8	11
RD-56A	SMRD-56A-GW082610	Pa-231	Total	8	NA	17	NA
RD-56A	SMRD-56A-GW082610	Pb-212	Filtered	-0.9 U	2.8	1.4	1.3
RD-56A	SMRD-56A-GW082610	Pb-212	Suspended	0.48 U	1.3	0.41	0.62
RD-56A	SMRD-56A-GW082610	Pb-212	Total	-0.4	NA	1.5	NA
RD-56A	SMRD-56A-GW082610	Pb-214	Filtered	0.51 U	2.5	0.68	1.2
RD-56A	SMRD-56A-GW082610	Pb-214	Suspended	0.38 U	1.5	0.58	0.74
RD-56A	SMRD-56A-GW082610	Pb-214	Total	0.89	NA	0.9	NA
RD-56A	SMRD-56A-GW082610	Sb-125	Filtered	2.7 U	13	3.8	6.2
RD-56A	SMRD-56A-GW082610	Sb-125	Suspended	0.6 U	6.4	1.9	3.1
RD-56A	SMRD-56A-GW082610	Sb-125	Total	3.3 SK	NA	4.3	NA
RD-56A	SMRD-56A-GW082610	Sn-126	Filtered	0.57 U	1.5	0.45	0.71
RD-56A	SMRD-56A-GW082610	Sn-126	Suspended	0 U	0.83	0.24	0.4
RD-56A	SMRD-56A-GW082610	Sn-126	Total	0.57	NA	0.51	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW082610	Sr-90	Filtered	0.03 U	0.14	0.041	0.079
RD-56A	SMRD-56A-GW082610	Sr-90	Suspended	0.046 U	0.096	0.029	0.054
RD-56A	SMRD-56A-GW082610	Sr-90	Total	0.076	NA	0.05	NA
RD-56A	SMRD-56A-GW082610	Te-125m	Filtered	0.63 U	3	0.88	1.4
RD-56A	SMRD-56A-GW082610	Te-125m	Suspended	0.13 U	1.5	0.44	0.72
RD-56A	SMRD-56A-GW082610	Te-125m	Total	0.76 SK	NA	0.99	NA
RD-56A	SMRD-56A-GW082610	Th-231	Filtered	0.031	0.03	0.013	0.01
RD-56A	SMRD-56A-GW082610	Th-231	Suspended	0.0052 U	0.007	0.0037	0.006
RD-56A	SMRD-56A-GW082610	Th-231	Total	0.036	NA	0.014	NA
RD-56A	SMRD-56A-GW082610	Th-234	Filtered	19.9	23	8.1	11
RD-56A	SMRD-56A-GW082610	Th-234	Suspended	-1.7 U	8.7	3.1	4.3
RD-56A	SMRD-56A-GW082610	Th-234	Total	18.2	NA	8.7	NA
RD-56A	SMRD-56A-GW082610	Tl-208	Filtered	0.07 U	1.7	0.46	0.83
RD-56A	SMRD-56A-GW082610	Tl-208	Suspended	0.64	0.82	0.3	0.39
RD-56A	SMRD-56A-GW082610	Tl-208	Total	0.71	NA	0.55	NA
RD-56A	SMRD-56A-GW082610	Tm-171	Filtered	29 U	270	78	130
RD-56A	SMRD-56A-GW082610	Tm-171	Suspended	12 U	88	26	43
RD-56A	SMRD-56A-GW082610	Tm-171	Total	42	NA	82	NA
RD-56A	SMRD-56A-GW082610	U-233/234	Filtered	0.987 K	0.037	0.073	0.016
RD-56A	SMRD-56A-GW082610	U-233/234	Suspended	0.029	0.019	0.0089	0.0068
RD-56A	SMRD-56A-GW082610	U-233/234	Total	1.02	NA	0.074	NA
RD-56A	SMRD-56A-GW082610	U-235/236	Filtered	0.031	0.03	0.013	0.01
RD-56A	SMRD-56A-GW082610	U-235/236	Suspended	0.0052 U	0.007	0.0037	0.006
RD-56A	SMRD-56A-GW082610	U-235/236	Total	0.036	NA	0.014	NA
RD-56A	SMRD-56A-GW082610	U-238	Filtered	0.687	0.027	0.058	0.01
RD-56A	SMRD-56A-GW082610	U-238	Suspended	0.0289	0.019	0.0089	0.0068
RD-56A	SMRD-56A-GW082610	U-238	Total	0.716	NA	0.058	NA
RD-56B	SMRD-56B-GW083110	Ac-227	Filtered	-1.7 U	8.1	2.4	3.9
RD-56B	SMRD-56B-GW083110	Ac-227	Suspended	-2 U	4.8	1.4	2.3
RD-56B	SMRD-56B-GW083110	Ac-227	Total	-3.7	NA	2.8	NA
RD-56B	SMRD-56B-GW083110	Ac-228	Filtered	4.1	5	1.6	2.3
RD-56B	SMRD-56B-GW083110	Ac-228	Suspended	2.14	2.1	0.68	0.98
RD-56B	SMRD-56B-GW083110	Ac-228	Total	6.2	NA	1.7	NA
RD-56B	SMRD-56B-GW083110	Ag-108	Filtered	0.027 U R	0.088	0.026	0.041
RD-56B	SMRD-56B-GW083110	Ag-108	Suspended	-0.013 U R	0.051	0.015	0.024
RD-56B	SMRD-56B-GW083110	Ag-108	Total	0.14 R	NA	0.31	NA
RD-56B	SMRD-56B-GW083110	Ag-108m	Filtered	0.29 U R	0.95	0.28	0.45
RD-56B	SMRD-56B-GW083110	Ag-108m	Suspended	-0.14 U R	0.55	0.16	0.26

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW083110	Ag-108m	Total	0.15 R	NA	0.33	NA
RD-56B	SMRD-56B-GW083110	Am-241	Filtered	0.019 U	0.06	0.017	0.027
RD-56B	SMRD-56B-GW083110	Am-241	Suspended	0.024	0.051	0.016	0.022
RD-56B	SMRD-56B-GW083110	Am-241	Total	0.044	NA	0.024	NA
RD-56B	SMRD-56B-GW083110	Ba-133	Filtered	1.9 U R	12	3.4	5.5
RD-56B	SMRD-56B-GW083110	Ba-133	Suspended	-1.6 U R	6.2	1.9	3
RD-56B	SMRD-56B-GW083110	Ba-133	Total	0.3 R	NA	3.9	NA
RD-56B	SMRD-56B-GW083110	Ba-137m	Filtered	0.21 U	1.5	0.43	0.69
RD-56B	SMRD-56B-GW083110	Ba-137m	Suspended	0.16 U	0.62	0.18	0.29
RD-56B	SMRD-56B-GW083110	Ba-137m	Total	0.38	NA	0.47	NA
RD-56B	SMRD-56B-GW083110	Bi-212	Filtered	-1.3 U	11	3.1	5
RD-56B	SMRD-56B-GW083110	Bi-212	Suspended	5.4	3.1	1.3	1.4
RD-56B	SMRD-56B-GW083110	Bi-212	Total	4.3	NA	3.4	NA
RD-56B	SMRD-56B-GW083110	Bi-214	Filtered	5.2	2.9	1.2	1.4
RD-56B	SMRD-56B-GW083110	Bi-214	Suspended	2.38	1.6	0.64	0.78
RD-56B	SMRD-56B-GW083110	Bi-214	Total	7.3	NA	1.4	NA
RD-56B	SMRD-56B-GW083110	C-14	Filtered	0.53 U	2.3	0.7	1.2
RD-56B	SMRD-56B-GW083110	C-14	Suspended	1.07 U R	2.3	0.71	1.1
RD-56B	SMRD-56B-GW083110	C-14	Total	1.6 R	NA	1	NA
RD-56B	SMRD-56B-GW083110	Cd-113m	Filtered	70 U	17000	5000	8200
RD-56B	SMRD-56B-GW083110	Cd-113m	Suspended	1600 U	7500	2200	3600
RD-56B	SMRD-56B-GW083110	Cd-113m	Total	1700	NA	5500	NA
RD-56B	SMRD-56B-GW083110	Cf-249	Filtered	0.2 U R	6.1	1.8	2.9
RD-56B	SMRD-56B-GW083110	Cf-249	Suspended	-0.41 U R	3.2	0.93	1.5
RD-56B	SMRD-56B-GW083110	Cf-249	Total	-0.2 R	NA	2	NA
RD-56B	SMRD-56B-GW083110	Cm-243/244	Filtered	0.022 U	0.074	0.021	0.035
RD-56B	SMRD-56B-GW083110	Cm-243/244	Suspended	0.028	0.061	0.019	0.028
RD-56B	SMRD-56B-GW083110	Cm-243/244	Total	0.05	NA	0.028	NA
RD-56B	SMRD-56B-GW083110	Cm-245/246	Filtered	0.0132	0.024	0.0078	0.0083
RD-56B	SMRD-56B-GW083110	Cm-245/246	Suspended	0.0195	0.0075	0.0074	0.0056
RD-56B	SMRD-56B-GW083110	Cm-245/246	Total	0.033	NA	0.011	NA
RD-56B	SMRD-56B-GW083110	Co-60	Filtered	0.14 U	1.7	0.49	0.79
RD-56B	SMRD-56B-GW083110	Co-60	Suspended	0.15 U	0.62	0.18	0.29
RD-56B	SMRD-56B-GW083110	Co-60	Total	0.3	NA	0.52	NA
RD-56B	SMRD-56B-GW083110	Cs-134	Filtered	-0.32 U	1.6	0.48	0.78
RD-56B	SMRD-56B-GW083110	Cs-134	Suspended	-0.26 U	0.76	0.23	0.37
RD-56B	SMRD-56B-GW083110	Cs-134	Total	-0.6	NA	0.54	NA
RD-56B	SMRD-56B-GW083110	Cs-137	Filtered	0.22 U	1.6	0.45	0.73

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW083110	Cs-137	Suspended	0.17 U	0.65	0.19	0.31
RD-56B	SMRD-56B-GW083110	Cs-137	Total	0.4	NA	0.49	NA
RD-56B	SMRD-56B-GW083110	Eu-152	Filtered	-1 U	3.6	1.1	1.7
RD-56B	SMRD-56B-GW083110	Eu-152	Suspended	-0.46 U	1.9	0.57	0.92
RD-56B	SMRD-56B-GW083110	Eu-152	Total	-1.4	NA	1.2	NA
RD-56B	SMRD-56B-GW083110	Eu-154	Filtered	-2.3 U	13	3.8	6.1
RD-56B	SMRD-56B-GW083110	Eu-154	Suspended	-1.2 U	6.2	1.8	2.9
RD-56B	SMRD-56B-GW083110	Eu-154	Total	-3.6	NA	4.2	NA
RD-56B	SMRD-56B-GW083110	Eu-155	Filtered	0.75 U	3	0.9	1.5
RD-56B	SMRD-56B-GW083110	Eu-155	Suspended	-0.1 U	1.2	0.37	0.6
RD-56B	SMRD-56B-GW083110	Eu-155	Total	0.65	NA	0.98	NA
RD-56B	SMRD-56B-GW083110	gross_alpha	Filtered	2.9	0.42	0.36	0.22
RD-56B	SMRD-56B-GW083110	gross_alpha	Suspended	0.2 U	0.62	0.18	0.32
RD-56B	SMRD-56B-GW083110	gross_alpha	Total	2.76	NA	0.38	NA
RD-56B	SMRD-56B-GW083110	gross_beta	Filtered	2.98	2.6	0.86	1.5
RD-56B	SMRD-56B-GW083110	gross_beta	Suspended	0.49	0.77	0.24	0.46
RD-56B	SMRD-56B-GW083110	gross_beta	Total	3.47	NA	0.9	NA
RD-56B	SMRD-56B-GW083110	H-3	Filtered	-49 U	140	40	68
RD-56B	SMRD-56B-GW083110	H-3	Suspended	6.6 U R	22	6.7	10
RD-56B	SMRD-56B-GW083110	H-3	Total	-43 R	NA	41	NA
RD-56B	SMRD-56B-GW083110	Ho-166m	Filtered	-0.16 U	2.2	0.62	1
RD-56B	SMRD-56B-GW083110	Ho-166m	Suspended	-0.27 U	1.2	0.35	0.56
RD-56B	SMRD-56B-GW083110	Ho-166m	Total	-0.43	NA	0.71	NA
RD-56B	SMRD-56B-GW083110	I-129	Filtered	0.06 U	0.51	0.15	0.25
RD-56B	SMRD-56B-GW083110	I-129	Suspended	-0.02 U	0.49	0.15	0.24
RD-56B	SMRD-56B-GW083110	I-129	Total	0.04	NA	0.21	NA
RD-56B	SMRD-56B-GW083110	K-40	Filtered	7.4 U	22	6.5	10
RD-56B	SMRD-56B-GW083110	K-40	Suspended	24.8	10	3.6	4.7
RD-56B	SMRD-56B-GW083110	K-40	Total	10.9	NA	7.4	NA
RD-56B	SMRD-56B-GW083110	Na-22	Filtered	0 U	1.5	0.42	0.68
RD-56B	SMRD-56B-GW083110	Na-22	Suspended	-0.24 U	0.84	0.25	0.4
RD-56B	SMRD-56B-GW083110	Na-22	Total	-0.24	NA	0.49	NA
RD-56B	SMRD-56B-GW083110	Nb-94	Filtered	-0.16 U	1.5	0.42	0.69
RD-56B	SMRD-56B-GW083110	Nb-94	Suspended	0.43	0.6	0.19	0.29
RD-56B	SMRD-56B-GW083110	Nb-94	Total	0.27	NA	0.46	NA
RD-56B	SMRD-56B-GW083110	Np-236	Filtered	-0.07 U	2.8	0.83	1.4
RD-56B	SMRD-56B-GW083110	Np-236	Suspended	0.42 U	1.2	0.37	0.59
RD-56B	SMRD-56B-GW083110	Np-236	Total	0.34	NA	0.9	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW083110	Np-237	Suspended	0.0036 U	0.0097	0.0036	0.0059
RD-56B	SMRD-56B-GW083110	Np-237	Total	0.0009	NA	0.0077	NA
RD-56B	SMRD-56B-GW083110	Np-239	Filtered	-0.2 U	8.6	2.5	4.2
RD-56B	SMRD-56B-GW083110	Np-239	Suspended	0.2 U	3.8	1.1	1.8
RD-56B	SMRD-56B-GW083110	Np-239	Total	0.006	NA	2.8	NA
RD-56B	SMRD-56B-GW083110	Pa-231	Filtered	0 U	66	19	32
RD-56B	SMRD-56B-GW083110	Pa-231	Suspended	-0.5 U	27	7.9	13
RD-56B	SMRD-56B-GW083110	Pa-231	Total	-0.5	NA	21	NA
RD-56B	SMRD-56B-GW083110	Pb-212	Filtered	-1.6 U	2.8	2	1.4
RD-56B	SMRD-56B-GW083110	Pb-212	Suspended	0.75	1.3	0.47	0.66
RD-56B	SMRD-56B-GW083110	Pb-212	Total	-1.2	NA	2.1	NA
RD-56B	SMRD-56B-GW083110	Pb-214	Filtered	0.47 U	2.7	0.81	1.3
RD-56B	SMRD-56B-GW083110	Pb-214	Suspended	3.88	1.1	0.44	0.54
RD-56B	SMRD-56B-GW083110	Pb-214	Total	4.35	NA	0.92	NA
RD-56B	SMRD-56B-GW083110	Pu-238	Filtered	0.005 U	0.064	0.016	0.03
RD-56B	SMRD-56B-GW083110	Pu-238	Suspended	0.0054 U	0.026	0.0065	0.0086
RD-56B	SMRD-56B-GW083110	Pu-238	Total	0.011	NA	0.017	NA
RD-56B	SMRD-56B-GW083110	Pu-239/240	Filtered	-0.0118 L U	0.045	0.0048	0.018
RD-56B	SMRD-56B-GW083110	Pu-239/240	Suspended	0 U	0.012	0.0026	0.0061
RD-56B	SMRD-56B-GW083110	Pu-239/240	Total	-0.0117 L	NA	0.0055	NA
RD-56B	SMRD-56B-GW083110	Pu-242	Filtered	0.0013 U	0.032	0.0059	0.011
RD-56B	SMRD-56B-GW083110	Pu-242	Suspended	-0.0016 U	0.022	0.0016	0.0061
RD-56B	SMRD-56B-GW083110	Pu-242	Total	-0.0003	NA	0.0061	NA
RD-56B	SMRD-56B-GW083110	Ra-226	Filtered	1.1	0.18	0.13	0.09
RD-56B	SMRD-56B-GW083110	Ra-226	Suspended	0.039 U	0.096	0.029	0.05
RD-56B	SMRD-56B-GW083110	Ra-226	Total	1.14	NA	0.13	NA
RD-56B	SMRD-56B-GW083110	Sb-125	Filtered	3.2 U	13	3.8	6.1
RD-56B	SMRD-56B-GW083110	Sb-125	Suspended	-1.7 U	5.9	1.8	2.9
RD-56B	SMRD-56B-GW083110	Sb-125	Total	1.5	NA	4.2	NA
RD-56B	SMRD-56B-GW083110	Sn-126	Filtered	0.25 U	1.5	0.43	0.69
RD-56B	SMRD-56B-GW083110	Sn-126	Suspended	0.3 U	0.74	0.22	0.35
RD-56B	SMRD-56B-GW083110	Sn-126	Total	0.54	NA	0.48	NA
RD-56B	SMRD-56B-GW083110	Sr-90	Filtered	0.1 U	0.32	0.094	0.19
RD-56B	SMRD-56B-GW083110	Sr-90	Suspended	0.046 U	0.15	0.044	0.088
RD-56B	SMRD-56B-GW083110	Sr-90	Total	0.15	NA	0.1	NA
RD-56B	SMRD-56B-GW083110	Tc-99	Filtered	-0.14 U	1.7	0.49	0.81
RD-56B	SMRD-56B-GW083110	Tc-99	Suspended	0.34 U	1.4	0.42	0.68
RD-56B	SMRD-56B-GW083110	Tc-99	Total	0.2	NA	0.64	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW083110	Te-125m	Filtered	0.75 U	2.9	0.87	1.4
RD-56B	SMRD-56B-GW083110	Te-125m	Suspended	-0.38 U	1.4	0.41	0.66
RD-56B	SMRD-56B-GW083110	Te-125m	Total	1.4	NA	4	NA
RD-56B	SMRD-56B-GW083110	Th-231	Filtered	0.05	0.033	0.019	0.009
RD-56B	SMRD-56B-GW083110	Th-231	Suspended	-0.0021 U	0.029	0.0066	0.0067
RD-56B	SMRD-56B-GW083110	Th-231	Total	0.048	NA	0.02	NA
RD-56B	SMRD-56B-GW083110	Th-234	Filtered	-3 U	25	9.1	12
RD-56B	SMRD-56B-GW083110	Th-234	Suspended	-5.4 U	9.3	4.8	4.6
RD-56B	SMRD-56B-GW083110	Th-234	Total	1.6	NA	9.6	NA
RD-56B	SMRD-56B-GW083110	Tl-208	Filtered	-1.2 U	1.9	4.2	0.9
RD-56B	SMRD-56B-GW083110	Tl-208	Suspended	0.39	0.77	0.25	0.37
RD-56B	SMRD-56B-GW083110	Tl-208	Total	-1	NA	4.2	NA
RD-56B	SMRD-56B-GW083110	Tm-171	Filtered	-20 U	360	110	170
RD-56B	SMRD-56B-GW083110	Tm-171	Suspended	-2 U	100	30	49
RD-56B	SMRD-56B-GW083110	Tm-171	Total	-20	NA	110	NA
RD-56B	SMRD-56B-GW083110	U-233/234	Filtered	0.622	0.049	0.064	0.021
RD-56B	SMRD-56B-GW083110	U-233/234	Suspended	-0.0086 U	0.028	0.0061	0.0076
RD-56B	SMRD-56B-GW083110	U-233/234	Total	0.613	NA	0.065	NA
RD-56B	SMRD-56B-GW083110	U-235/236	Filtered	0.05	0.033	0.019	0.009
RD-56B	SMRD-56B-GW083110	U-235/236	Suspended	-0.0021 U	0.029	0.0066	0.0067
RD-56B	SMRD-56B-GW083110	U-235/236	Total	0.048	NA	0.02	NA
RD-56B	SMRD-56B-GW083110	U-238	Filtered	0.46	0.036	0.054	0.013
RD-56B	SMRD-56B-GW083110	U-238	Suspended	0.0064	0.012	0.0091	0
RD-56B	SMRD-56B-GW083110	U-238	Total	0.466	NA	0.054	NA
RD-57	SMRD-57-GW081910	Ac-227	Filtered	14.6	6.1	2.3	2.9
RD-57	SMRD-57-GW081910	Ac-227	Suspended	-1.7 U	4.5	1.4	2.2
RD-57	SMRD-57-GW081910	Ac-227	Total	12.9	NA	2.6	NA
RD-57	SMRD-57-GW081910	Ac-228	Filtered	2.3	4.5	1.4	2
RD-57	SMRD-57-GW081910	Ac-228	Suspended	-1 U	3.1	1.4	1.5
RD-57	SMRD-57-GW081910	Ac-228	Total	1.4	NA	1.9	NA
RD-57	SMRD-57-GW081910	Ag-108	Filtered	0 U R	0.14	0.039	0.065
RD-57	SMRD-57-GW081910	Ag-108	Suspended	-0.013 U R	0.05	0.015	0.024
RD-57	SMRD-57-GW081910	Ag-108	Total	-0.013 R	NA	0.042	NA
RD-57	SMRD-57-GW081910	Ag-108m	Filtered	0 U R	1.5	0.42	0.69
RD-57	SMRD-57-GW081910	Ag-108m	Suspended	-0.14 U R	0.54	0.16	0.26
RD-57	SMRD-57-GW081910	Ag-108m	Total	-0.14 R	NA	0.45	NA
RD-57	SMRD-57-GW081910	Ba-133	Filtered	0.02 U R	14	4	6.5
RD-57	SMRD-57-GW081910	Ba-133	Suspended	-1.5 U R	6.2	1.8	3

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW081910	Ba-133	Total	-1.5 R	NA	4.4	NA
RD-57	SMRD-57-GW081910	Ba-137m	Filtered	0.66	1.1	0.35	0.51
RD-57	SMRD-57-GW081910	Ba-137m	Suspended	0.08 U	0.65	0.19	0.31
RD-57	SMRD-57-GW081910	Ba-137m	Total	0.75	NA	0.39	NA
RD-57	SMRD-57-GW081910	Bi-212	Filtered	4.6 U	13	3.8	5.8
RD-57	SMRD-57-GW081910	Bi-212	Suspended	1.8 U	5.4	1.6	2.5
RD-57	SMRD-57-GW081910	Bi-212	Total	6.4	NA	4.1	NA
RD-57	SMRD-57-GW081910	Bi-214	Filtered	4.4	4	1.7	1.9
RD-57	SMRD-57-GW081910	Bi-214	Suspended	0.65 U	1.5	0.46	0.71
RD-57	SMRD-57-GW081910	Bi-214	Total	5.1	NA	1.8	NA
RD-57	SMRD-57-GW081910	Cd-113m	Filtered	-4900 U	15000	4600	7300
RD-57	SMRD-57-GW081910	Cd-113m	Suspended	1000 U	7100	2100	3500
RD-57	SMRD-57-GW081910	Cd-113m	Total	-3900	NA	5100	NA
RD-57	SMRD-57-GW081910	Cf-249	Filtered	-2.3 U R	7.3	2.2	3.5
RD-57	SMRD-57-GW081910	Cf-249	Suspended	0.47 U R	2.8	0.84	1.4
RD-57	SMRD-57-GW081910	Cf-249	Total	-1.8 R	NA	2.3	NA
RD-57	SMRD-57-GW081910	Co-60	Filtered	0.29 U	1.8	0.52	0.83
RD-57	SMRD-57-GW081910	Co-60	Suspended	0.26 U	0.72	0.21	0.33
RD-57	SMRD-57-GW081910	Co-60	Total	0.56	NA	0.56	NA
RD-57	SMRD-57-GW081910	Cs-134	Filtered	-0.29 U	1.7	0.5	0.8
RD-57	SMRD-57-GW081910	Cs-134	Suspended	0.01 U	0.8	0.23	0.39
RD-57	SMRD-57-GW081910	Cs-134	Total	-0.28	NA	0.55	NA
RD-57	SMRD-57-GW081910	Cs-137	Filtered	0.7	1.2	0.37	0.54
RD-57	SMRD-57-GW081910	Cs-137	Suspended	0.09 U	0.69	0.2	0.33
RD-57	SMRD-57-GW081910	Cs-137	Total	0.79	NA	0.42	NA
RD-57	SMRD-57-GW081910	Eu-152	Filtered	-1.1 U	4.3	1.3	2
RD-57	SMRD-57-GW081910	Eu-152	Suspended	-0.35 U	1.8	0.52	0.85
RD-57	SMRD-57-GW081910	Eu-152	Total	-1.5	NA	1.4	NA
RD-57	SMRD-57-GW081910	Eu-154	Filtered	-0.6 U	13	3.7	6
RD-57	SMRD-57-GW081910	Eu-154	Suspended	-0.8 U	5.7	1.7	2.7
RD-57	SMRD-57-GW081910	Eu-154	Total	-1.4	NA	4	NA
RD-57	SMRD-57-GW081910	Eu-155	Filtered	0.3 U	3.4	1	1.6
RD-57	SMRD-57-GW081910	Eu-155	Suspended	0.05 U	1.2	0.36	0.59
RD-57	SMRD-57-GW081910	Eu-155	Total	0.4	NA	1.1	NA
RD-57	SMRD-57-GW081910	gross_alpha	Filtered	8.1	0.4	0.6	0.21
RD-57	SMRD-57-GW081910	gross_alpha	Suspended	0 U	0.62	0.15	0.33
RD-57	SMRD-57-GW081910	gross_alpha	Total	8.1	NA	0.62	NA
RD-57	SMRD-57-GW081910	gross_beta	Filtered	8.18	1.5	0.8	0.82

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW081910	gross_beta	Suspended	0.66	0.82	0.26	0.49
RD-57	SMRD-57-GW081910	gross_beta	Total	8.84	NA	0.84	NA
RD-57	SMRD-57-GW081910	H-3	Filtered	-15 U	140	41	67
RD-57	SMRD-57-GW081910	H-3	Suspended	2.2 U	13	3.7	5.7
RD-57	SMRD-57-GW081910	H-3	Total	-13	NA	41	NA
RD-57	SMRD-57-GW081910	Ho-166m	Filtered	0.03 U	1.6	0.45	0.73
RD-57	SMRD-57-GW081910	Ho-166m	Suspended	-0.009 U	1.1	0.33	0.54
RD-57	SMRD-57-GW081910	Ho-166m	Total	0.02	NA	0.56	NA
RD-57	SMRD-57-GW081910	K-40	Filtered	-19 U	25	31	12
RD-57	SMRD-57-GW081910	K-40	Suspended	-3.2 U	12	3.5	6
RD-57	SMRD-57-GW081910	K-40	Total	-22	NA	31	NA
RD-57	SMRD-57-GW081910	Na-22	Filtered	-0.32 U	1.9	0.55	0.88
RD-57	SMRD-57-GW081910	Na-22	Suspended	0.01 U	0.89	0.25	0.42
RD-57	SMRD-57-GW081910	Na-22	Total	-0.3	NA	0.61	NA
RD-57	SMRD-57-GW081910	Nb-94	Filtered	-0.11 U	1.2	0.35	0.57
RD-57	SMRD-57-GW081910	Nb-94	Suspended	0.13 U	0.64	0.19	0.31
RD-57	SMRD-57-GW081910	Nb-94	Total	0.02	NA	0.4	NA
RD-57	SMRD-57-GW081910	Np-236	Filtered	-0.68 U	2.8	0.84	1.4
RD-57	SMRD-57-GW081910	Np-236	Suspended	-0.28 U	1.2	0.37	0.6
RD-57	SMRD-57-GW081910	Np-236	Total	-0.96	NA	0.91	NA
RD-57	SMRD-57-GW081910	Np-239	Filtered	0.2 U	8.7	2.6	4.2
RD-57	SMRD-57-GW081910	Np-239	Suspended	-0.6 U	3.8	1.1	1.8
RD-57	SMRD-57-GW081910	Np-239	Total	-0.4	NA	2.8	NA
RD-57	SMRD-57-GW081910	Pa-231	Filtered	19 U	57	17	27
RD-57	SMRD-57-GW081910	Pa-231	Suspended	-8.3 U	28	8.3	13
RD-57	SMRD-57-GW081910	Pa-231	Total	11	NA	19	NA
RD-57	SMRD-57-GW081910	Pb-212	Filtered	1.83	2.7	0.88	1.3
RD-57	SMRD-57-GW081910	Pb-212	Suspended	0.76	1.3	0.45	0.63
RD-57	SMRD-57-GW081910	Pb-212	Total	2.59	NA	0.99	NA
RD-57	SMRD-57-GW081910	Pb-214	Filtered	1.3 U	3.1	1.1	1.5
RD-57	SMRD-57-GW081910	Pb-214	Suspended	1.6	1.3	0.48	0.64
RD-57	SMRD-57-GW081910	Pb-214	Total	2.9	NA	1.2	NA
RD-57	SMRD-57-GW081910	Sb-125	Filtered	-0.9 U	15	4.3	7.1
RD-57	SMRD-57-GW081910	Sb-125	Suspended	1.2 U	6	1.8	2.9
RD-57	SMRD-57-GW081910	Sb-125	Total	0.4	NA	4.7	NA
RD-57	SMRD-57-GW081910	Sn-126	Filtered	-0.2 U	1.5	0.45	0.72
RD-57	SMRD-57-GW081910	Sn-126	Suspended	0.11 U	0.77	0.23	0.37
RD-57	SMRD-57-GW081910	Sn-126	Total	-0.09	NA	0.5	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW081910	Sr-90	Suspended	-0.024 U	0.069	0.019	0.039
RD-57	SMRD-57-GW081910	Sr-90	Total	-0.012	NA	0.058	NA
RD-57	SMRD-57-GW081910	Te-125m	Filtered	-0.2 U	3.4	0.99	1.6
RD-57	SMRD-57-GW081910	Te-125m	Suspended	0.29 U	1.4	0.42	0.68
RD-57	SMRD-57-GW081910	Te-125m	Total	0.09	NA	1.1	NA
RD-57	SMRD-57-GW081910	Th-231	Filtered	0.203	0.042	0.037	0.015
RD-57	SMRD-57-GW081910	Th-231	Suspended	-0.0023 U	0.032	0.0023	0.0089
RD-57	SMRD-57-GW081910	Th-231	Total	0.2	NA	0.037	NA
RD-57	SMRD-57-GW081910	Th-234	Filtered	0.8 U	21	6.4	10
RD-57	SMRD-57-GW081910	Th-234	Suspended	3.5 U	8.6	2.9	4.2
RD-57	SMRD-57-GW081910	Th-234	Total	4.3	NA	7	NA
RD-57	SMRD-57-GW081910	Tl-208	Filtered	0.03 U	1.8	0.47	0.86
RD-57	SMRD-57-GW081910	Tl-208	Suspended	0.59	0.81	0.31	0.39
RD-57	SMRD-57-GW081910	Tl-208	Total	0.62	NA	0.56	NA
RD-57	SMRD-57-GW081910	Tm-171	Filtered	100 U	350	110	170
RD-57	SMRD-57-GW081910	Tm-171	Suspended	29 U	120	37	60
RD-57	SMRD-57-GW081910	Tm-171	Total	130	NA	110	NA
RD-57	SMRD-57-GW081910	U-233/234	Filtered	5.03	0.03	0.26	0.01
RD-57	SMRD-57-GW081910	U-233/234	Suspended	0.004 U	0.034	0.011	0.012
RD-57	SMRD-57-GW081910	U-233/234	Total	5.03	NA	0.26	NA
RD-57	SMRD-57-GW081910	U-235/236	Filtered	0.203	0.042	0.037	0.015
RD-57	SMRD-57-GW081910	U-235/236	Suspended	-0.0023 U	0.032	0.0023	0.0089
RD-57	SMRD-57-GW081910	U-235/236	Total	0.2	NA	0.037	NA
RD-57	SMRD-57-GW081910	U-238	Filtered	3.86	0.03	0.21	0.007
RD-57	SMRD-57-GW081910	U-238	Suspended	-0.0044 U	0.025	0.0053	0.0071
RD-57	SMRD-57-GW081910	U-238	Total	3.86	NA	0.21	NA
RD-63	SMRD-63-GW090210	Ac-227	Filtered	0 U	12	3.6	5.9
RD-63	SMRD-63-GW090210	Ac-227	Suspended	0 U	3.5	1	1.7
RD-63	SMRD-63-GW090210	Ac-227	Total	0	NA	3.7	NA
RD-63	SMRD-63-GW090210	Ac-228	Filtered	8.1 B	3.2	1.5	1.4
RD-63	SMRD-63-GW090210	Ac-228	Suspended	0.97	1.8	0.56	0.85
RD-63	SMRD-63-GW090210	Ac-228	Total	9 B	NA	1.6	NA
RD-63	SMRD-63-GW090210	Ag-108	Filtered	0.023 U R	0.1	0.03	0.048
RD-63	SMRD-63-GW090210	Ag-108	Suspended	0.0035 U R	0.03	0.0088	0.014
RD-63	SMRD-63-GW090210	Ag-108	Total	0.026 R	NA	0.032	NA
RD-63	SMRD-63-GW090210	Ag-108m	Filtered	0.24 U R	1.1	0.33	0.52
RD-63	SMRD-63-GW090210	Ag-108m	Suspended	0.038 U R	0.33	0.094	0.15
RD-63	SMRD-63-GW090210	Ag-108m	Total	0.28 R	NA	0.34	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW090210	Ba-133	Filtered	0.3 U R	14	4	6.6
RD-63	SMRD-63-GW090210	Ba-133	Suspended	-0.11 U R	3.3	0.97	1.6
RD-63	SMRD-63-GW090210	Ba-133	Total	0.2 R	NA	4.1	NA
RD-63	SMRD-63-GW090210	Ba-137m	Filtered	0.8	1.3	0.4	0.59
RD-63	SMRD-63-GW090210	Ba-137m	Suspended	0.37	0.42	0.14	0.19
RD-63	SMRD-63-GW090210	Ba-137m	Total	1.17	NA	0.42	NA
RD-63	SMRD-63-GW090210	Bi-212	Filtered	-0.03 U	13	3.7	6.1
RD-63	SMRD-63-GW090210	Bi-212	Suspended	1.1 U	4.1	1.2	1.9
RD-63	SMRD-63-GW090210	Bi-212	Total	1	NA	3.9	NA
RD-63	SMRD-63-GW090210	Bi-214	Filtered	2.5	3.4	1.2	1.6
RD-63	SMRD-63-GW090210	Bi-214	Suspended	0.34 U	0.95	0.32	0.45
RD-63	SMRD-63-GW090210	Bi-214	Total	2.8	NA	1.2	NA
RD-63	SMRD-63-GW090210	Cd-113m	Filtered	2100 U	16000	4700	7700
RD-63	SMRD-63-GW090210	Cd-113m	Suspended	400 U	4100	1200	2000
RD-63	SMRD-63-GW090210	Cd-113m	Total	2500	NA	4900	NA
RD-63	SMRD-63-GW090210	Cf-249	Filtered	0 U R	7	2	3.4
RD-63	SMRD-63-GW090210	Cf-249	Suspended	0.45 U B	1.7	0.5	0.79
RD-63	SMRD-63-GW090210	Cf-249	Total	0.4 B R	NA	2.1	NA
RD-63	SMRD-63-GW090210	Co-60	Filtered	0.24 U	1.7	0.47	0.74
RD-63	SMRD-63-GW090210	Co-60	Suspended	0.01 U	0.62	0.17	0.28
RD-63	SMRD-63-GW090210	Co-60	Total	0.25	NA	0.5	NA
RD-63	SMRD-63-GW090210	Cs-134	Filtered	0.23 U	1.6	0.45	0.73
RD-63	SMRD-63-GW090210	Cs-134	Suspended	0.11 U	0.49	0.14	0.23
RD-63	SMRD-63-GW090210	Cs-134	Total	0.34	NA	0.48	NA
RD-63	SMRD-63-GW090210	Cs-137	Filtered	0.84	1.3	0.42	0.62
RD-63	SMRD-63-GW090210	Cs-137	Suspended	0.39	0.44	0.14	0.21
RD-63	SMRD-63-GW090210	Cs-137	Total	1.24	NA	0.44	NA
RD-63	SMRD-63-GW090210	Eu-152	Filtered	-0.5 U	3.8	1.1	1.8
RD-63	SMRD-63-GW090210	Eu-152	Suspended	-0.37 U	1.2	0.37	0.6
RD-63	SMRD-63-GW090210	Eu-152	Total	-0.8	NA	1.2	NA
RD-63	SMRD-63-GW090210	Eu-154	Filtered	2 U	13	3.6	5.8
RD-63	SMRD-63-GW090210	Eu-154	Suspended	-0.4 U	3.8	1.1	1.8
RD-63	SMRD-63-GW090210	Eu-154	Total	1.5	NA	3.8	NA
RD-63	SMRD-63-GW090210	Eu-155	Filtered	0.1 U	3.6	1.1	1.7
RD-63	SMRD-63-GW090210	Eu-155	Suspended	0.09 U	0.7	0.21	0.34
RD-63	SMRD-63-GW090210	Eu-155	Total	0.2	NA	1.1	NA
RD-63	SMRD-63-GW090210	gross_alpha	Filtered	10.3	0.58	0.72	0.32
RD-63	SMRD-63-GW090210	gross_alpha	Suspended	0.69	0.56	0.22	0.29

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW090210	gross_alpha	Total	11.6	NA	0.82	NA
RD-63	SMRD-63-GW090210	gross_beta	Filtered	12.2	1.3	0.88	0.73
RD-63	SMRD-63-GW090210	gross_beta	Suspended	0.21 U	0.74	0.22	0.44
RD-63	SMRD-63-GW090210	gross_beta	Total	12.4	NA	0.91	NA
RD-63	SMRD-63-GW090210	H-3	Filtered	43 U	130	41	66
RD-63	SMRD-63-GW090210	H-3	Suspended	-8.3 U R	23	5.7	11
RD-63	SMRD-63-GW090210	H-3	Total	35 R	NA	41	NA
RD-63	SMRD-63-GW090210	Ho-166m	Filtered	-0.6 U	2.5	0.74	1.2
RD-63	SMRD-63-GW090210	Ho-166m	Suspended	0.09 U	0.58	0.16	0.26
RD-63	SMRD-63-GW090210	Ho-166m	Total	-0.5	NA	0.76	NA
RD-63	SMRD-63-GW090210	K-40	Filtered	6.3 U	24	7.6	11
RD-63	SMRD-63-GW090210	K-40	Suspended	3.4	6.5	2	3
RD-63	SMRD-63-GW090210	K-40	Total	9.7	NA	7.9	NA
RD-63	SMRD-63-GW090210	Na-22	Filtered	-0.34 U	1.9	0.54	0.86
RD-63	SMRD-63-GW090210	Na-22	Suspended	-0.02 U	0.69	0.19	0.31
RD-63	SMRD-63-GW090210	Na-22	Total	-0.36	NA	0.57	NA
RD-63	SMRD-63-GW090210	Nb-94	Filtered	0.5 U	1.2	0.35	0.53
RD-63	SMRD-63-GW090210	Nb-94	Suspended	0.13 U	0.48	0.14	0.23
RD-63	SMRD-63-GW090210	Nb-94	Total	0.63	NA	0.38	NA
RD-63	SMRD-63-GW090210	Np-236	Filtered	-0.55 U	2.5	0.74	1.2
RD-63	SMRD-63-GW090210	Np-236	Suspended	-0.1 U	0.72	0.21	0.35
RD-63	SMRD-63-GW090210	Np-236	Total	-0.65	NA	0.77	NA
RD-63	SMRD-63-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-63	SMRD-63-GW090210	Np-239	Filtered	-1.1 U	8.5	2.5	4.1
RD-63	SMRD-63-GW090210	Np-239	Suspended	-0.59 U	2.4	0.72	1.2
RD-63	SMRD-63-GW090210	Np-239	Total	-1.7	NA	2.6	NA
RD-63	SMRD-63-GW090210	Pa-231	Filtered	18 U	58	17	27
RD-63	SMRD-63-GW090210	Pa-231	Suspended	0.9 U	18	5.1	8.4
RD-63	SMRD-63-GW090210	Pa-231	Total	19	NA	18	NA
RD-63	SMRD-63-GW090210	Pb-212	Filtered	0.8 U	2.9	1	1.4
RD-63	SMRD-63-GW090210	Pb-212	Suspended	0.38	0.74	0.26	0.36
RD-63	SMRD-63-GW090210	Pb-212	Total	1.2	NA	1.1	NA
RD-63	SMRD-63-GW090210	Pb-214	Filtered	1.3 U	3.3	1.2	1.6
RD-63	SMRD-63-GW090210	Pb-214	Suspended	0.19 U	0.74	0.22	0.35
RD-63	SMRD-63-GW090210	Pb-214	Total	1.5	NA	1.2	NA
RD-63	SMRD-63-GW090210	Sb-125	Filtered	2 U	13	3.9	6.3
RD-63	SMRD-63-GW090210	Sb-125	Suspended	0.6 U	3.6	1.1	1.7
RD-63	SMRD-63-GW090210	Sb-125	Total	2.6	NA	4	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW090210	Sn-126	Filtered	0.64	1.4	0.42	0.64
RD-63	SMRD-63-GW090210	Sn-126	Suspended	0.16 U	0.57	0.17	0.27
RD-63	SMRD-63-GW090210	Sn-126	Total	0.81	NA	0.45	NA
RD-63	SMRD-63-GW090210	Sr-90	Filtered	0.071 U	0.14	0.044	0.081
RD-63	SMRD-63-GW090210	Sr-90	Suspended	0.02 U	0.11	0.032	0.061
RD-63	SMRD-63-GW090210	Sr-90	Total	0.09	NA	0.054	NA
RD-63	SMRD-63-GW090210	Te-125m	Filtered	0.46 U	3	0.9	1.5
RD-63	SMRD-63-GW090210	Te-125m	Suspended	0.14 U	0.84	0.25	0.4
RD-63	SMRD-63-GW090210	Te-125m	Total	0.6	NA	0.93	NA
RD-63	SMRD-63-GW090210	Th-231	Filtered	0.18	0.007	0.023	0.006
RD-63	SMRD-63-GW090210	Th-231	Suspended	-0.0029 U	0.021	0.0029	0.0068
RD-63	SMRD-63-GW090210	Th-231	Total	0.177	NA	0.023	NA
RD-63	SMRD-63-GW090210	Th-234	Filtered	12	21	6.8	10
RD-63	SMRD-63-GW090210	Th-234	Suspended	4	5.2	1.9	2.5
RD-63	SMRD-63-GW090210	Th-234	Total	16	NA	7	NA
RD-63	SMRD-63-GW090210	Tl-208	Filtered	-1 U	2	13000	1
RD-63	SMRD-63-GW090210	Tl-208	Suspended	-0.13 U	0.6	0.27	0.28
RD-63	SMRD-63-GW090210	Tl-208	Total	-2	NA	13000	NA
RD-63	SMRD-63-GW090210	Tm-171	Filtered	71 U	320	96	150
RD-63	SMRD-63-GW090210	Tm-171	Suspended	-17 U	68	20	33
RD-63	SMRD-63-GW090210	Tm-171	Total	54	NA	98	NA
RD-63	SMRD-63-GW090210	U-233/234	Filtered	5.32	0.02	0.25	0.005
RD-63	SMRD-63-GW090210	U-233/234	Suspended	0.001 U	0.0063	0.0052	0.0054
RD-63	SMRD-63-GW090210	U-233/234	Total	5.32	NA	0.25	NA
RD-63	SMRD-63-GW090210	U-235/236	Filtered	0.18	0.007	0.023	0.006
RD-63	SMRD-63-GW090210	U-235/236	Suspended	-0.0029 U	0.021	0.0029	0.0068
RD-63	SMRD-63-GW090210	U-235/236	Total	0.177	NA	0.023	NA
RD-63	SMRD-63-GW090210	U-238	Filtered	5.43	0.02	0.25	0.005
RD-63	SMRD-63-GW090210	U-238	Suspended	0.0084	0.0063	0.0062	0.0054
RD-63	SMRD-63-GW090210	U-238	Total	5.44	NA	0.25	NA
RD-64	SMRD-064-GW091010	Ac-227	Filtered	-4.6 U	10	3.2	5.1
RD-64	SMRD-064-GW091010	Ac-227	Suspended	-1.4 U	3.7	1.1	1.8
RD-64	SMRD-064-GW091010	Ac-227	Total	-6.1	NA	3.4	NA
RD-64	SMRD-064-GW091010	Ac-228	Filtered	4.2 B	5.4	1.7	2.5
RD-64	SMRD-064-GW091010	Ac-228	Suspended	0.88 U	2.1	0.62	0.95
RD-64	SMRD-064-GW091010	Ac-228	Total	5.1 B	NA	1.8	NA
RD-64	SMRD-064-GW091010	Ag-108	Filtered	-0.007 U R	0.1	0.029	0.047
RD-64	SMRD-064-GW091010	Ag-108	Suspended	0.007 U R	0.04	0.012	0.019

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-064-GW091010	Ag-108	Total	0.0003 R	NA	0.031	NA
RD-64	SMRD-064-GW091010	Ag-108m	Filtered	-0.07 U R	1.1	0.31	0.51
RD-64	SMRD-064-GW091010	Ag-108m	Suspended	0.08 U R	0.43	0.13	0.2
RD-64	SMRD-064-GW091010	Ag-108m	Total	0.003 R	NA	0.33	NA
RD-64	SMRD-064-GW091010	Ba-133	Filtered	0.6 U R	13	3.7	6
RD-64	SMRD-064-GW091010	Ba-133	Suspended	1.8 U R	5.2	1.6	2.5
RD-64	SMRD-064-GW091010	Ba-133	Total	2.4 R	NA	4	NA
RD-64	SMRD-064-GW091010	Ba-137m	Filtered	-0.37 U	1.6	0.47	0.76
RD-64	SMRD-064-GW091010	Ba-137m	Suspended	-0.11 U	0.81	0.33	0.39
RD-64	SMRD-064-GW091010	Ba-137m	Total	-0.48	NA	0.58	NA
RD-64	SMRD-064-GW091010	Bi-212	Filtered	6.5	12	3.6	5.3
RD-64	SMRD-064-GW091010	Bi-212	Suspended	-0.06 U	5.5	1.6	2.6
RD-64	SMRD-064-GW091010	Bi-212	Total	6.4	NA	3.9	NA
RD-64	SMRD-064-GW091010	Bi-214	Filtered	2.7	3.3	1.1	1.6
RD-64	SMRD-064-GW091010	Bi-214	Suspended	-0.7 U	1.6	1	0.8
RD-64	SMRD-064-GW091010	Bi-214	Total	2.1	NA	1.5	NA
RD-64	SMRD-064-GW091010	Cd-113m	Filtered	-700 U	17000	5100	8400
RD-64	SMRD-064-GW091010	Cd-113m	Suspended	-500 U	6900	2000	3300
RD-64	SMRD-064-GW091010	Cd-113m	Total	-1200	NA	5500	NA
RD-64	SMRD-064-GW091010	Cf-249	Filtered	1.3 U R	7	2.1	3.3
RD-64	SMRD-064-GW091010	Cf-249	Suspended	0.49 U B	2.7	0.81	1.3
RD-64	SMRD-064-GW091010	Cf-249	Total	1.8 B R	NA	2.2	NA
RD-64	SMRD-064-GW091010	Co-60	Filtered	0.26 U	1.8	0.51	0.82
RD-64	SMRD-064-GW091010	Co-60	Suspended	-0.1 U	0.74	0.21	0.34
RD-64	SMRD-064-GW091010	Co-60	Total	0.15	NA	0.55	NA
RD-64	SMRD-064-GW091010	Cs-134	Filtered	-0.41 U	1.8	0.52	0.83
RD-64	SMRD-064-GW091010	Cs-134	Suspended	0.01 U	0.67	0.19	0.32
RD-64	SMRD-064-GW091010	Cs-134	Total	-0.4	NA	0.55	NA
RD-64	SMRD-064-GW091010	Cs-137	Filtered	-0.39 U	1.7	0.5	0.8
RD-64	SMRD-064-GW091010	Cs-137	Suspended	-0.11 U	0.86	0.35	0.41
RD-64	SMRD-064-GW091010	Cs-137	Total	-0.5	NA	0.61	NA
RD-64	SMRD-064-GW091010	Eu-152	Filtered	-0.44 U	3.2	0.94	1.5
RD-64	SMRD-064-GW091010	Eu-152	Suspended	-0.05 U	1.6	0.47	0.77
RD-64	SMRD-064-GW091010	Eu-152	Total	-0.5	NA	1.1	NA
RD-64	SMRD-064-GW091010	Eu-154	Filtered	3.7 U	13	3.9	6.1
RD-64	SMRD-064-GW091010	Eu-154	Suspended	-1.2 U	5.3	1.5	2.5
RD-64	SMRD-064-GW091010	Eu-154	Total	2.5	NA	4.2	NA
RD-64	SMRD-064-GW091010	Eu-155	Filtered	0.63 U	2.9	0.85	1.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-064-GW091010	Eu-155	Suspended	0.37 U	1.1	0.34	0.54
RD-64	SMRD-064-GW091010	Eu-155	Total	1	NA	0.92	NA
RD-64	SMRD-064-GW091010	gross_alpha	Filtered	5.38	0.55	0.48	0.3
RD-64	SMRD-064-GW091010	gross_alpha	Suspended	0.05 U	0.49	0.13	0.26
RD-64	SMRD-064-GW091010	gross_alpha	Total	5.64	NA	0.53	NA
RD-64	SMRD-064-GW091010	gross_beta	Filtered	5.64	1.2	0.6	0.7
RD-64	SMRD-064-GW091010	gross_beta	Suspended	-0.42 L U	0.75	0.19	0.45
RD-64	SMRD-064-GW091010	gross_beta	Total	5.22	NA	0.63	NA
RD-64	SMRD-064-GW091010	H-3	Filtered	78	130	41	65
RD-64	SMRD-064-GW091010	H-3	Suspended	-2.2 U R	13	3.4	5.8
RD-64	SMRD-064-GW091010	H-3	Total	76 R	NA	41	NA
RD-64	SMRD-064-GW091010	Ho-166m	Filtered	-0.56 U	2.5	0.72	1.1
RD-64	SMRD-064-GW091010	Ho-166m	Suspended	-0.2 U	1	0.3	0.48
RD-64	SMRD-064-GW091010	Ho-166m	Total	-0.77	NA	0.78	NA
RD-64	SMRD-064-GW091010	K-40	Filtered	-6.8 U	25	8.9	11
RD-64	SMRD-064-GW091010	K-40	Suspended	-5.4 U	11	7.5	4.9
RD-64	SMRD-064-GW091010	K-40	Total	-12	NA	12	NA
RD-64	SMRD-064-GW091010	Na-22	Filtered	0.66 U	1.7	0.52	0.78
RD-64	SMRD-064-GW091010	Na-22	Suspended	0.21 U	0.81	0.24	0.37
RD-64	SMRD-064-GW091010	Na-22	Total	0.86	NA	0.57	NA
RD-64	SMRD-064-GW091010	Nb-94	Filtered	0.69	1.2	0.37	0.56
RD-64	SMRD-064-GW091010	Nb-94	Suspended	0.15 U	0.56	0.17	0.26
RD-64	SMRD-064-GW091010	Nb-94	Total	0.84	NA	0.41	NA
RD-64	SMRD-064-GW091010	Np-236	Filtered	-0.09 U	2.7	0.8	1.3
RD-64	SMRD-064-GW091010	Np-236	Suspended	-0.2 U	1.2	0.35	0.58
RD-64	SMRD-064-GW091010	Np-236	Total	-0.29	NA	0.87	NA
RD-64	SMRD-064-GW091010	Np-236a	Total	0 R	NA	0	NA
RD-64	SMRD-064-GW091010	Np-239	Filtered	-4.9 U	8.9	2.7	4.3
RD-64	SMRD-064-GW091010	Np-239	Suspended	-0.98 U	3.3	0.99	1.6
RD-64	SMRD-064-GW091010	Np-239	Total	-5.9 L	NA	2.9	NA
RD-64	SMRD-064-GW091010	Pa-231	Filtered	-5 U	58	17	28
RD-64	SMRD-064-GW091010	Pa-231	Suspended	-0.3 U	21	6.1	10
RD-64	SMRD-064-GW091010	Pa-231	Total	-6	NA	18	NA
RD-64	SMRD-064-GW091010	Pb-212	Filtered	0.59 U	2.9	0.96	1.4
RD-64	SMRD-064-GW091010	Pb-212	Suspended	0.42 U	1.1	0.44	0.55
RD-64	SMRD-064-GW091010	Pb-212	Total	1	NA	1.1	NA
RD-64	SMRD-064-GW091010	Pb-214	Filtered	1 U	3.2	1	1.5
RD-64	SMRD-064-GW091010	Pb-214	Suspended	-1.1 U	1.4	1.3	0.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-064-GW091010	Pb-214	Total	-0.08	NA	1.7	NA
RD-64	SMRD-064-GW091010	Sb-125	Filtered	-0.05 U	11	3.3	5.5
RD-64	SMRD-064-GW091010	Sb-125	Suspended	1 U	6.1	1.8	3
RD-64	SMRD-064-GW091010	Sb-125	Total	1	NA	3.8	NA
RD-64	SMRD-064-GW091010	Sn-126	Filtered	0.07 U	1.8	0.52	0.85
RD-64	SMRD-064-GW091010	Sn-126	Suspended	0.28 U	0.66	0.2	0.31
RD-64	SMRD-064-GW091010	Sn-126	Total	0.35	NA	0.56	NA
RD-64	SMRD-064-GW091010	Sr-90	Filtered	-0.018 U	0.1	0.029	0.057
RD-64	SMRD-064-GW091010	Sr-90	Suspended	-0.03 U	0.1	0.029	0.059
RD-64	SMRD-064-GW091010	Sr-90	Total	-0.047	NA	0.041	NA
RD-64	SMRD-064-GW091010	Te-125m	Filtered	-0.01 U	2.6	0.77	1.3
RD-64	SMRD-064-GW091010	Te-125m	Suspended	0.24 U	1.4	0.42	0.68
RD-64	SMRD-064-GW091010	Te-125m	Total	0.23	NA	0.87	NA
RD-64	SMRD-064-GW091010	Th-231	Filtered	0.094	0.007	0.016	0.006
RD-64	SMRD-064-GW091010	Th-231	Suspended	0 U	0.035	0.0067	0.011
RD-64	SMRD-064-GW091010	Th-231	Total	0.094	NA	0.017	NA
RD-64	SMRD-064-GW091010	Th-234	Filtered	-4 U	22	8.2	11
RD-64	SMRD-064-GW091010	Th-234	Suspended	6.4	7.4	2.7	3.6
RD-64	SMRD-064-GW091010	Th-234	Total	2.4	NA	8.6	NA
RD-64	SMRD-064-GW091010	Tl-208	Filtered	-0.54 U	1.8	0.99	0.86
RD-64	SMRD-064-GW091010	Tl-208	Suspended	-0.01 U	0.75	0.21	0.36
RD-64	SMRD-064-GW091010	Tl-208	Total	-0.5	NA	1	NA
RD-64	SMRD-064-GW091010	Tm-171	Filtered	130 U	360	110	170
RD-64	SMRD-064-GW091010	Tm-171	Suspended	-144 R U	130	40	62
RD-64	SMRD-064-GW091010	Tm-171	Total	-10 R	NA	120	NA
RD-64	SMRD-064-GW091010	U-233/234	Filtered	2.46	0.02	0.13	0.007
RD-64	SMRD-064-GW091010	U-233/234	Suspended	0.057	0.05	0.021	0.02
RD-64	SMRD-064-GW091010	U-233/234	Total	2.52	NA	0.13	NA
RD-64	SMRD-064-GW091010	U-235/236	Filtered	0.094	0.007	0.016	0.006
RD-64	SMRD-064-GW091010	U-235/236	Suspended	0 U	0.035	0.0067	0.011
RD-64	SMRD-064-GW091010	U-235/236	Total	0.094	NA	0.017	NA
RD-64	SMRD-064-GW091010	U-238	Filtered	1.88	0.006	0.1	0.005
RD-64	SMRD-064-GW091010	U-238	Suspended	0.061	0.035	0.019	0.012
RD-64	SMRD-064-GW091010	U-238	Total	1.94	NA	0.1	NA
RD-65	SMRD-65-GW090210	Ac-227	Filtered	-3.5 U	9.1	2.8	4.4
RD-65	SMRD-65-GW090210	Ac-227	Suspended	-1.4 U	4.7	1.4	2.3
RD-65	SMRD-65-GW090210	Ac-227	Total	-4.9	NA	3.1	NA
RD-65	SMRD-65-GW090210	Ac-228	Filtered	3.3 B	4.1	1.3	1.9

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW090210	Ac-228	Suspended	5.5	2	0.83	0.92
RD-65	SMRD-65-GW090210	Ac-228	Total	8.8 B	NA	1.5	NA
RD-65	SMRD-65-GW090210	Ag-108	Filtered	0.001 U R	0.098	0.029	0.047
RD-65	SMRD-65-GW090210	Ag-108	Suspended	-0.001 U R	0.063	0.019	0.031
RD-65	SMRD-65-GW090210	Ag-108	Total	0.0001 R	NA	0.034	NA
RD-65	SMRD-65-GW090210	Ag-108m	Filtered	0.02 U R	1.1	0.31	0.51
RD-65	SMRD-65-GW090210	Ag-108m	Suspended	-0.01 U R	0.68	0.2	0.33
RD-65	SMRD-65-GW090210	Ag-108m	Total	0.001 R	NA	0.37	NA
RD-65	SMRD-65-GW090210	Ba-133	Filtered	-0.8 U R	13	3.9	6.4
RD-65	SMRD-65-GW090210	Ba-133	Suspended	-1 U R	6	1.8	2.9
RD-65	SMRD-65-GW090210	Ba-133	Total	-1.8 R	NA	4.3	NA
RD-65	SMRD-65-GW090210	Ba-137m	Filtered	0.29 U	1.2	0.35	0.56
RD-65	SMRD-65-GW090210	Ba-137m	Suspended	-0.02 U	0.66	0.19	0.31
RD-65	SMRD-65-GW090210	Ba-137m	Total	0.27	NA	0.4	NA
RD-65	SMRD-65-GW090210	Bi-212	Filtered	-9 U	11	15	5
RD-65	SMRD-65-GW090210	Bi-212	Suspended	0.4 U	6.7	1.9	3.2
RD-65	SMRD-65-GW090210	Bi-212	Total	-8	NA	15	NA
RD-65	SMRD-65-GW090210	Bi-214	Filtered	3.3	3.1	1.2	1.5
RD-65	SMRD-65-GW090210	Bi-214	Suspended	0.35 U	1.9	0.73	0.9
RD-65	SMRD-65-GW090210	Bi-214	Total	3.7	NA	1.4	NA
RD-65	SMRD-65-GW090210	Cd-113m	Filtered	3000 U	14000	4100	6600
RD-65	SMRD-65-GW090210	Cd-113m	Suspended	600 U	8200	2400	4000
RD-65	SMRD-65-GW090210	Cd-113m	Total	3600	NA	4700	NA
RD-65	SMRD-65-GW090210	Cf-249	Filtered	1.4 U R	5.5	1.7	2.7
RD-65	SMRD-65-GW090210	Cf-249	Suspended	-1.03 U B	3.1	0.95	1.5
RD-65	SMRD-65-GW090210	Cf-249	Total	0.3 B R	NA	1.9	NA
RD-65	SMRD-65-GW090210	Co-60	Filtered	0.3 U	1.3	0.37	0.59
RD-65	SMRD-65-GW090210	Co-60	Suspended	0.05 U	0.76	0.22	0.35
RD-65	SMRD-65-GW090210	Co-60	Total	0.34	NA	0.43	NA
RD-65	SMRD-65-GW090210	Cs-134	Filtered	0.27 U	1.2	0.35	0.56
RD-65	SMRD-65-GW090210	Cs-134	Suspended	-0.13 U	0.88	0.26	0.42
RD-65	SMRD-65-GW090210	Cs-134	Total	0.13	NA	0.44	NA
RD-65	SMRD-65-GW090210	Cs-137	Filtered	0.31 U	1.2	0.37	0.59
RD-65	SMRD-65-GW090210	Cs-137	Suspended	-0.03 U	0.7	0.2	0.33
RD-65	SMRD-65-GW090210	Cs-137	Total	0.28	NA	0.42	NA
RD-65	SMRD-65-GW090210	Eu-152	Filtered	0.11 U	3.2	0.92	1.5
RD-65	SMRD-65-GW090210	Eu-152	Suspended	0 U	1.9	0.54	0.9
RD-65	SMRD-65-GW090210	Eu-152	Total	0.1	NA	1.1	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW090210	Eu-154	Filtered	0.8 U	10	2.9	4.8
RD-65	SMRD-65-GW090210	Eu-154	Suspended	2.7	5.5	1.7	2.6
RD-65	SMRD-65-GW090210	Eu-154	Total	3.5	NA	3.4	NA
RD-65	SMRD-65-GW090210	Eu-155	Filtered	0.5 U	3.6	1.1	1.7
RD-65	SMRD-65-GW090210	Eu-155	Suspended	0.23 U	1.4	0.42	0.69
RD-65	SMRD-65-GW090210	Eu-155	Total	0.8	NA	1.1	NA
RD-65	SMRD-65-GW090310	gross_alpha	Filtered	4.02	0.48	0.41	0.26
RD-65	SMRD-65-GW090310	gross_alpha	Suspended	-0.158 L U	0.4	0.061	0.2
RD-65	SMRD-65-GW090310	gross_alpha	Total	3.86	NA	0.42	NA
RD-65	SMRD-65-GW090310	gross_beta	Filtered	4	1.1	0.51	0.65
RD-65	SMRD-65-GW090310	gross_beta	Suspended	0.53	0.8	0.25	0.48
RD-65	SMRD-65-GW090310	gross_beta	Total	4.53	NA	0.57	NA
RD-65	SMRD-65-GW090210	H-3	Filtered	15 U	130	38	63
RD-65	SMRD-65-GW090210	H-3	Suspended	8.2 R	16	5.1	7.1
RD-65	SMRD-65-GW090210	H-3	Total	23 R	NA	39	NA
RD-65	SMRD-65-GW090210	Ho-166m	Filtered	0.27 U	1.7	0.51	0.82
RD-65	SMRD-65-GW090210	Ho-166m	Suspended	0.04 U	0.9	0.26	0.42
RD-65	SMRD-65-GW090210	Ho-166m	Total	0.3	NA	0.57	NA
RD-65	SMRD-65-GW090210	K-40	Filtered	13.5	25	7.3	12
RD-65	SMRD-65-GW090210	K-40	Suspended	-0.8 U	14	3.5	6.9
RD-65	SMRD-65-GW090210	K-40	Total	12.7	NA	8.1	NA
RD-65	SMRD-65-GW090210	Na-22	Filtered	-0.14 U	1.4	0.41	0.66
RD-65	SMRD-65-GW090210	Na-22	Suspended	-0.19 U	0.85	0.25	0.39
RD-65	SMRD-65-GW090210	Na-22	Total	-0.33	NA	0.48	NA
RD-65	SMRD-65-GW090210	Nb-94	Filtered	0.04 U	1.3	0.39	0.64
RD-65	SMRD-65-GW090210	Nb-94	Suspended	0.08 U	0.75	0.22	0.36
RD-65	SMRD-65-GW090210	Nb-94	Total	0.12	NA	0.45	NA
RD-65	SMRD-65-GW090210	Np-236	Filtered	0.006 U	2.9	0.87	1.4
RD-65	SMRD-65-GW090210	Np-236	Suspended	0.31 U	1.3	0.39	0.63
RD-65	SMRD-65-GW090210	Np-236	Total	0.31	NA	0.95	NA
RD-65	SMRD-65-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-65	SMRD-65-GW090210	Np-239	Filtered	-1.3 U	8.1	2.4	3.9
RD-65	SMRD-65-GW090210	Np-239	Suspended	-0.6 U	4.1	1.2	2
RD-65	SMRD-65-GW090210	Np-239	Total	-1.9	NA	2.7	NA
RD-65	SMRD-65-GW090210	Pa-231	Filtered	0 U	55	16	26
RD-65	SMRD-65-GW090210	Pa-231	Suspended	-0.2 U	26	7.5	12
RD-65	SMRD-65-GW090210	Pa-231	Total	-0.2	NA	18	NA
RD-65	SMRD-65-GW090210	Pb-212	Filtered	0.47 U	2.9	0.9	1.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW090210	Pb-212	Suspended	-0.36 U	1.6	0.56	0.77
RD-65	SMRD-65-GW090210	Pb-212	Total	0.1	NA	1.1	NA
RD-65	SMRD-65-GW090210	Pb-214	Filtered	1.54	2.7	0.96	1.3
RD-65	SMRD-65-GW090210	Pb-214	Suspended	0.51 U	1.4	0.46	0.67
RD-65	SMRD-65-GW090210	Pb-214	Total	2.1	NA	1.1	NA
RD-65	SMRD-65-GW090210	Sb-125	Filtered	-5.3 U	15	4.6	7.4
RD-65	SMRD-65-GW090210	Sb-125	Suspended	0.2 U	7.2	2.1	3.5
RD-65	SMRD-65-GW090210	Sb-125	Total	-5.1	NA	5	NA
RD-65	SMRD-65-GW090210	Sn-126	Filtered	0.08 U	1.3	0.37	0.6
RD-65	SMRD-65-GW090210	Sn-126	Suspended	0.3 U	0.7	0.21	0.33
RD-65	SMRD-65-GW090210	Sn-126	Total	0.38	NA	0.42	NA
RD-65	SMRD-65-GW090310	Sr-90	Filtered	-0.014 U	0.16	0.047	0.093
RD-65	SMRD-65-GW090310	Sr-90	Suspended	0.026 U	0.1	0.03	0.057
RD-65	SMRD-65-GW090310	Sr-90	Total	0.012	NA	0.056	NA
RD-65	SMRD-65-GW090210	Te-125m	Filtered	-1.2 U	3.5	1.1	1.7
RD-65	SMRD-65-GW090210	Te-125m	Suspended	0.04 U	1.7	0.49	0.81
RD-65	SMRD-65-GW090210	Te-125m	Total	-1.2	NA	1.2	NA
RD-65	SMRD-65-GW090210	Th-231	Filtered	0.046	0.02	0.012	0.006
RD-65	SMRD-65-GW090210	Th-231	Suspended	0 U	0.021	0.004	0.0067
RD-65	SMRD-65-GW090210	Th-231	Total	0.046	NA	0.013	NA
RD-65	SMRD-65-GW090210	Th-234	Filtered	-6.5 U	21	8.9	10
RD-65	SMRD-65-GW090210	Th-234	Suspended	1.1 U	8.6	3.1	4.2
RD-65	SMRD-65-GW090210	Th-234	Total	-5.5	NA	9.4	NA
RD-65	SMRD-65-GW090210	Tl-208	Filtered	0.5 U	1.7	0.62	0.81
RD-65	SMRD-65-GW090210	Tl-208	Suspended	0.14 U	0.98	0.33	0.47
RD-65	SMRD-65-GW090210	Tl-208	Total	0.64	NA	0.7	NA
RD-65	SMRD-65-GW090210	Tm-171	Filtered	30 U	420	120	200
RD-65	SMRD-65-GW090210	Tm-171	Suspended	-42 U	140	43	70
RD-65	SMRD-65-GW090210	Tm-171	Total	-20	NA	130	NA
RD-65	SMRD-65-GW090210	U-233/234	Filtered	1.58	0.016	0.089	0.005
RD-65	SMRD-65-GW090210	U-233/234	Suspended	0.014	0.03	0.011	0.012
RD-65	SMRD-65-GW090210	U-233/234	Total	1.59	NA	0.089	NA
RD-65	SMRD-65-GW090210	U-235/236	Filtered	0.046	0.02	0.012	0.006
RD-65	SMRD-65-GW090210	U-235/236	Suspended	0 U	0.021	0.004	0.0067
RD-65	SMRD-65-GW090210	U-235/236	Total	0.046	NA	0.013	NA
RD-65	SMRD-65-GW090210	U-238	Filtered	0.928	0.006	0.06	0.005
RD-65	SMRD-65-GW090210	U-238	Suspended	-0.0039 U	0.021	0.0056	0.0075
RD-65	SMRD-65-GW090210	U-238	Total	0.924	NA	0.06	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW082310	Ac-227	Filtered	-1.5 U	9.2	2.7	4.4
RD-70	SMRD-70-GW082310	Ac-227	Suspended	-2.6 U	4.2	1.3	2
RD-70	SMRD-70-GW082310	Ac-227	Total	-4.1	NA	3	NA
RD-70	SMRD-70-GW082310	Ac-228	Filtered	1.3 U	4.9	1.4	2.3
RD-70	SMRD-70-GW082310	Ac-228	Suspended	2.34	2.2	0.72	1
RD-70	SMRD-70-GW082310	Ac-228	Total	3.6	NA	1.6	NA
RD-70	SMRD-70-GW082310	Ag-108	Filtered	0.014 U R	0.09	0.026	0.042
RD-70	SMRD-70-GW082310	Ag-108	Suspended	0.0009 U R	0.045	0.013	0.021
RD-70	SMRD-70-GW082310	Ag-108	Total	0.015 R	NA	0.029	NA
RD-70	SMRD-70-GW082310	Ag-108m	Filtered	0.15 U R	0.97	0.28	0.46
RD-70	SMRD-70-GW082310	Ag-108m	Suspended	0.01 U R	0.48	0.14	0.23
RD-70	SMRD-70-GW082310	Ag-108m	Total	0.16 R	NA	0.32	NA
RD-70	SMRD-70-GW082310	Ba-133	Filtered	6 R	12	3.7	5.9
RD-70	SMRD-70-GW082310	Ba-133	Suspended	-0.1 U R	6.4	1.9	3.1
RD-70	SMRD-70-GW082310	Ba-133	Total	5.9 R	NA	4.2	NA
RD-70	SMRD-70-GW082310	Ba-137m	Filtered	-0.23 U	1.2	0.36	0.57
RD-70	SMRD-70-GW082310	Ba-137m	Suspended	0 U	0.7	0.2	0.33
RD-70	SMRD-70-GW082310	Ba-137m	Total	-0.23	NA	0.41	NA
RD-70	SMRD-70-GW082310	Bi-212	Filtered	-0.8 U	11	3.2	5.3
RD-70	SMRD-70-GW082310	Bi-212	Suspended	-2 U	7	43	3
RD-70	SMRD-70-GW082310	Bi-212	Total	-3	NA	43	NA
RD-70	SMRD-70-GW082310	Bi-214	Filtered	-0.3 U	3.2	1	1.5
RD-70	SMRD-70-GW082310	Bi-214	Suspended	1.22	1.6	0.6	0.76
RD-70	SMRD-70-GW082310	Bi-214	Total	0.9	NA	1.2	NA
RD-70	SMRD-70-GW082310	Cd-113m	Filtered	-200 U	13000	3800	6200
RD-70	SMRD-70-GW082310	Cd-113m	Suspended	-1400 U	7500	2200	3600
RD-70	SMRD-70-GW082310	Cd-113m	Total	-1500	NA	4400	NA
RD-70	SMRD-70-GW082310	Cf-249	Filtered	1.4 U R	6	1.8	2.9
RD-70	SMRD-70-GW082310	Cf-249	Suspended	0.02 U R	2.5	0.72	1.2
RD-70	SMRD-70-GW082310	Cf-249	Total	1.5 R	NA	1.9	NA
RD-70	SMRD-70-GW082310	Co-60	Filtered	0.28 U	1.4	0.41	0.65
RD-70	SMRD-70-GW082310	Co-60	Suspended	0.33 U	0.75	0.23	0.35
RD-70	SMRD-70-GW082310	Co-60	Total	0.6	NA	0.47	NA
RD-70	SMRD-70-GW082310	Cs-134	Filtered	0 U	2.3	0.68	1.1
RD-70	SMRD-70-GW082310	Cs-134	Suspended	-0.007 U	0.78	0.23	0.37
RD-70	SMRD-70-GW082310	Cs-134	Total	-0.007	NA	0.71	NA
RD-70	SMRD-70-GW082310	Cs-137	Filtered	-0.24 U	1.3	0.38	0.6
RD-70	SMRD-70-GW082310	Cs-137	Suspended	0 U	0.74	0.21	0.35

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW082310	Cs-137	Total	-0.24	NA	0.43	NA
RD-70	SMRD-70-GW082310	Eu-152	Filtered	0.12 U	3.2	0.94	1.5
RD-70	SMRD-70-GW082310	Eu-152	Suspended	0.004 U	1.8	0.54	0.89
RD-70	SMRD-70-GW082310	Eu-152	Total	0.1	NA	1.1	NA
RD-70	SMRD-70-GW082310	Eu-154	Filtered	1.2 U	11	3.2	5.3
RD-70	SMRD-70-GW082310	Eu-154	Suspended	1.7 U	5.8	1.7	2.7
RD-70	SMRD-70-GW082310	Eu-154	Total	2.9	NA	3.7	NA
RD-70	SMRD-70-GW082310	Eu-155	Filtered	0.34 U	2.7	0.81	1.3
RD-70	SMRD-70-GW082310	Eu-155	Suspended	0.41 U	1.1	0.33	0.53
RD-70	SMRD-70-GW082310	Eu-155	Total	0.75	NA	0.87	NA
RD-70	SMRD-70-GW082310	gross_alpha	Filtered	3.11	0.48	0.36	0.26
RD-70	SMRD-70-GW082310	gross_alpha	Suspended	0.24 U	0.49	0.15	0.26
RD-70	SMRD-70-GW082310	gross_alpha	Total	3.34	NA	0.39	NA
RD-70	SMRD-70-GW082310	gross_beta	Filtered	3.6	3	1	1.7
RD-70	SMRD-70-GW082310	gross_beta	Suspended	0.57	0.78	0.25	0.46
RD-70	SMRD-70-GW082310	gross_beta	Total	4.2	NA	1.1	NA
RD-70	SMRD-70-GW082310	H-3	Filtered	-10 U	140	40	67
RD-70	SMRD-70-GW082310	H-3	Suspended	3.7 U	13	3.7	5.5
RD-70	SMRD-70-GW082310	H-3	Total	-6	NA	41	NA
RD-70	SMRD-70-GW082310	Ho-166m	Filtered	0.86 U	2	0.59	0.91
RD-70	SMRD-70-GW082310	Ho-166m	Suspended	-0.37 U	1.2	0.36	0.58
RD-70	SMRD-70-GW082310	Ho-166m	Total	0.49	NA	0.7	NA
RD-70	SMRD-70-GW082310	K-40	Filtered	15.1	14	4.8	6.4
RD-70	SMRD-70-GW082310	K-40	Suspended	2.2 U	10	2.5	4.8
RD-70	SMRD-70-GW082310	K-40	Total	17.2	NA	5.4	NA
RD-70	SMRD-70-GW082310	Na-22	Filtered	0.11 U	1.5	0.43	0.7
RD-70	SMRD-70-GW082310	Na-22	Suspended	0.01 U	0.75	0.21	0.34
RD-70	SMRD-70-GW082310	Na-22	Total	0.12	NA	0.48	NA
RD-70	SMRD-70-GW082310	Nb-94	Filtered	-0.11 U	1.2	0.35	0.56
RD-70	SMRD-70-GW082310	Nb-94	Suspended	0.19 U	0.68	0.2	0.32
RD-70	SMRD-70-GW082310	Nb-94	Total	0.08	NA	0.4	NA
RD-70	SMRD-70-GW082310	Np-236	Filtered	-0.55 U	2.5	0.76	1.2
RD-70	SMRD-70-GW082310	Np-236	Suspended	0.09 U	1.2	0.36	0.58
RD-70	SMRD-70-GW082310	Np-236	Total	-0.46	NA	0.84	NA
RD-70	SMRD-70-GW082310	Np-239	Filtered	-0.6 U	8	2.3	3.8
RD-70	SMRD-70-GW082310	Np-239	Suspended	-0.03 U	3.8	1.1	1.8
RD-70	SMRD-70-GW082310	Np-239	Total	-0.6	NA	2.6	NA
RD-70	SMRD-70-GW082310	Pa-231	Filtered	14 U	62	18	30

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW082310	Pa-231	Suspended	0 U	29	8.7	14
RD-70	SMRD-70-GW082310	Pa-231	Total	14	NA	20	NA
RD-70	SMRD-70-GW082310	Pb-212	Filtered	0.7 U	2.6	0.97	1.3
RD-70	SMRD-70-GW082310	Pb-212	Suspended	0.53 U	1.2	0.4	0.58
RD-70	SMRD-70-GW082310	Pb-212	Total	1.2	NA	1.1	NA
RD-70	SMRD-70-GW082310	Pb-214	Filtered	0.01 U	2.9	0.78	1.4
RD-70	SMRD-70-GW082310	Pb-214	Suspended	0.52 U	1.5	0.42	0.73
RD-70	SMRD-70-GW082310	Pb-214	Total	0.53	NA	0.88	NA
RD-70	SMRD-70-GW082310	Sb-125	Filtered	-1.8 U	13	3.8	6.3
RD-70	SMRD-70-GW082310	Sb-125	Suspended	0 U	6.1	1.8	2.9
RD-70	SMRD-70-GW082310	Sb-125	Total	-1.8	NA	4.2	NA
RD-70	SMRD-70-GW082310	Sn-126	Filtered	0.47 U	1.4	0.41	0.64
RD-70	SMRD-70-GW082310	Sn-126	Suspended	0.34	0.67	0.21	0.32
RD-70	SMRD-70-GW082310	Sn-126	Total	0.81	NA	0.46	NA
RD-70	SMRD-70-GW082310	Sr-90	Suspended	0.027 U	0.06	0.018	0.034
RD-70	SMRD-70-GW082310	Sr-90	Total	0.108	NA	0.061	NA
RD-70	SMRD-70-GW082310	Te-125m	Filtered	-0.43 U	3	0.89	1.4
RD-70	SMRD-70-GW082310	Te-125m	Suspended	0 U	1.4	0.41	0.68
RD-70	SMRD-70-GW082310	Te-125m	Total	-0.43	NA	0.98	NA
RD-70	SMRD-70-GW082310	Th-231	Filtered	0.024	0.034	0.014	0.009
RD-70	SMRD-70-GW082310	Th-231	Suspended	0 U	0.016	0.0022	0.0084
RD-70	SMRD-70-GW082310	Th-231	Total	0.024	NA	0.014	NA
RD-70	SMRD-70-GW082310	Th-234	Filtered	3.3 U	23	7.7	11
RD-70	SMRD-70-GW082310	Th-234	Suspended	-0.7 U	7	2.4	3.4
RD-70	SMRD-70-GW082310	Th-234	Total	2.5	NA	8	NA
RD-70	SMRD-70-GW082310	Tl-208	Filtered	0.95	1.6	0.59	0.73
RD-70	SMRD-70-GW082310	Tl-208	Suspended	0.99	0.84	0.35	0.4
RD-70	SMRD-70-GW082310	Tl-208	Total	1.94	NA	0.69	NA
RD-70	SMRD-70-GW082310	Tm-171	Filtered	100 U	350	100	170
RD-70	SMRD-70-GW082310	Tm-171	Suspended	45 U	120	37	59
RD-70	SMRD-70-GW082310	Tm-171	Total	140	NA	110	NA
RD-70	SMRD-70-GW082310	U-233/234	Filtered	1.4	0.04	0.11	0.02
RD-70	SMRD-70-GW082310	U-233/234	Suspended	-0.0064 U	0.04	0.0093	0.017
RD-70	SMRD-70-GW082310	U-233/234	Total	1.39	NA	0.11	NA
RD-70	SMRD-70-GW082310	U-235/236	Filtered	0.024	0.034	0.014	0.009
RD-70	SMRD-70-GW082310	U-235/236	Suspended	0 U	0.016	0.0022	0.0084
RD-70	SMRD-70-GW082310	U-235/236	Total	0.024	NA	0.014	NA
RD-70	SMRD-70-GW082310	U-238	Filtered	0.92	0.032	0.08	0.011

Table D.1
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW082310	U-238	Suspended	0.013	0.029	0.011	0.01
RD-70	SMRD-70-GW082310	U-238	Total	0.933	NA	0.081	NA
RD-85	SMRD-085-GW081910	Ac-227	Filtered	-2.3 U	9.1	2.7	4.4
RD-85	SMRD-085-GW081910	Ac-227	Suspended	-2.6 U	4.7	1.4	2.3
RD-85	SMRD-085-GW081910	Ac-227	Total	-4.9	NA	3.1	NA
RD-85	SMRD-085-GW081910	Ac-228	Filtered	5.1	4.8	1.6	2.2
RD-85	SMRD-085-GW081910	Ac-228	Suspended	2.8	2.4	0.78	1.1
RD-85	SMRD-085-GW081910	Ac-228	Total	7.9	NA	1.8	NA
RD-85	SMRD-085-GW081910	Ag-108	Filtered	0.049 R	0.074	0.023	0.034
RD-85	SMRD-085-GW081910	Ag-108	Suspended	0.018 U R	0.048	0.014	0.023
RD-85	SMRD-085-GW081910	Ag-108	Total	0.067 R	NA	0.027	NA
RD-85	SMRD-085-GW081910	Ag-108m	Filtered	0.53 R	0.8	0.25	0.37
RD-85	SMRD-085-GW081910	Ag-108m	Suspended	0.19 U R	0.52	0.16	0.25
RD-85	SMRD-085-GW081910	Ag-108m	Total	0.72 R	NA	0.29	NA
RD-85	SMRD-085-GW081910	Ba-133	Filtered	3 U R	14	4.1	6.6
RD-85	SMRD-085-GW081910	Ba-133	Suspended	0.3 U R	6.3	1.9	3.1
RD-85	SMRD-085-GW081910	Ba-133	Total	3.3 R	NA	4.5	NA
RD-85	SMRD-085-GW081910	Ba-137m	Filtered	0.04 U	1.5	0.44	0.72
RD-85	SMRD-085-GW081910	Ba-137m	Suspended	0.15 U	0.5	0.15	0.23
RD-85	SMRD-085-GW081910	Ba-137m	Total	0.18	NA	0.46	NA
RD-85	SMRD-085-GW081910	Bi-212	Filtered	0 U	19	5.5	9.1
RD-85	SMRD-085-GW081910	Bi-212	Suspended	3	5.9	1.8	2.8
RD-85	SMRD-085-GW081910	Bi-212	Total	3	NA	5.8	NA
RD-85	SMRD-085-GW081910	Bi-214	Filtered	2.3	3.4	1.2	1.6
RD-85	SMRD-085-GW081910	Bi-214	Suspended	0.66 U	1.6	0.53	0.76
RD-85	SMRD-085-GW081910	Bi-214	Total	3	NA	1.3	NA
RD-85	SMRD-085-GW081910	Cd-113m	Filtered	-3400 U	16000	4900	7900
RD-85	SMRD-085-GW081910	Cd-113m	Suspended	1600 U	7200	2100	3500
RD-85	SMRD-085-GW081910	Cd-113m	Total	-1900	NA	5300	NA
RD-85	SMRD-085-GW081910	Cf-249	Filtered	1.3 U R	6.5	1.9	3.1
RD-85	SMRD-085-GW081910	Cf-249	Suspended	0.33 U R	3.2	0.95	1.6
RD-85	SMRD-085-GW081910	Cf-249	Total	1.6 R	NA	2.1	NA
RD-85	SMRD-085-GW081910	Co-60	Filtered	-0.19 U	1.7	0.48	0.77
RD-85	SMRD-085-GW081910	Co-60	Suspended	0 U	1.3	0.37	0.6
RD-85	SMRD-085-GW081910	Co-60	Total	-0.19	NA	0.6	NA
RD-85	SMRD-085-GW081910	Cs-134	Filtered	-0.02 U	1.5	0.44	0.72
RD-85	SMRD-085-GW081910	Cs-134	Suspended	0.02 U	1.2	0.37	0.6
RD-85	SMRD-085-GW081910	Cs-134	Total	0.007	NA	0.57	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-085-GW081910	Cs-137	Filtered	0.04 U	1.6	0.46	0.76
RD-85	SMRD-085-GW081910	Cs-137	Suspended	0.16 U	0.52	0.16	0.24
RD-85	SMRD-085-GW081910	Cs-137	Total	0.19	NA	0.49	NA
RD-85	SMRD-085-GW081910	Eu-152	Filtered	0.04 U	3.9	1.1	1.9
RD-85	SMRD-085-GW081910	Eu-152	Suspended	-0.03 U	1.6	0.45	0.74
RD-85	SMRD-085-GW081910	Eu-152	Total	0.01	NA	1.2	NA
RD-85	SMRD-085-GW081910	Eu-154	Filtered	-1.7 U	13	3.8	6.2
RD-85	SMRD-085-GW081910	Eu-154	Suspended	0.1 U	6.2	1.8	2.9
RD-85	SMRD-085-GW081910	Eu-154	Total	-1.5	NA	4.2	NA
RD-85	SMRD-085-GW081910	Eu-155	Filtered	0.97 U	3.1	0.94	1.5
RD-85	SMRD-085-GW081910	Eu-155	Suspended	-0.27 U	1.3	0.39	0.63
RD-85	SMRD-085-GW081910	Eu-155	Total	0.7	NA	1	NA
RD-85	SMRD-085-GW081910	gross_alpha	Filtered	6.7	0.46	0.55	0.24
RD-85	SMRD-085-GW081910	gross_alpha	Suspended	4.45	0.66	0.48	0.36
RD-85	SMRD-085-GW081910	gross_alpha	Total	11.2	NA	0.73	NA
RD-85	SMRD-085-GW081910	gross_beta	Filtered	5.22	2.2	0.9	1.3
RD-85	SMRD-085-GW081910	gross_beta	Suspended	2.61	0.79	0.36	0.45
RD-85	SMRD-085-GW081910	gross_beta	Total	7.84	NA	0.97	NA
RD-85	SMRD-085-GW081910	H-3	Filtered	54 U	130	40	65
RD-85	SMRD-085-GW081910	H-3	Suspended	3.8 U	12	3.6	5.2
RD-85	SMRD-085-GW081910	H-3	Total	58	NA	40	NA
RD-85	SMRD-085-GW081910	Ho-166m	Filtered	0.5 U	2	0.59	0.93
RD-85	SMRD-085-GW081910	Ho-166m	Suspended	0.02 U	1.1	0.32	0.53
RD-85	SMRD-085-GW081910	Ho-166m	Total	0.52	NA	0.67	NA
RD-85	SMRD-085-GW081910	K-40	Filtered	3 U	22	5.9	10
RD-85	SMRD-085-GW081910	K-40	Suspended	10.8	8.9	2.7	4.2
RD-85	SMRD-085-GW081910	K-40	Total	13.8	NA	6.4	NA
RD-85	SMRD-085-GW081910	Na-22	Filtered	-0.14 U	1.9	0.53	0.87
RD-85	SMRD-085-GW081910	Na-22	Suspended	-0.08 U	0.85	0.24	0.39
RD-85	SMRD-085-GW081910	Na-22	Total	-0.22	NA	0.59	NA
RD-85	SMRD-085-GW081910	Nb-94	Filtered	0.19 U	1.5	0.43	0.7
RD-85	SMRD-085-GW081910	Nb-94	Suspended	0.08 U	0.56	0.16	0.27
RD-85	SMRD-085-GW081910	Nb-94	Total	0.27	NA	0.46	NA
RD-85	SMRD-085-GW081910	Np-236	Filtered	-0.13 U	1.9	0.55	0.89
RD-85	SMRD-085-GW081910	Np-236	Suspended	0.02 U	1.1	0.32	0.53
RD-85	SMRD-085-GW081910	Np-236	Total	-0.11	NA	0.63	NA
RD-85	SMRD-085-GW081910	Np-239	Filtered	0.9 U	7.6	2.2	3.6
RD-85	SMRD-085-GW081910	Np-239	Suspended	-0.2 U	3.5	1	1.7

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-085-GW081910	Np-239	Total	0.7	NA	2.5	NA
RD-85	SMRD-085-GW081910	Pa-231	Filtered	-18 U	66	20	32
RD-85	SMRD-085-GW081910	Pa-231	Suspended	0.9 U	28	8.2	14
RD-85	SMRD-085-GW081910	Pa-231	Total	-17	NA	21	NA
RD-85	SMRD-085-GW081910	Pb-212	Filtered	0 U	2.8	0.87	1.3
RD-85	SMRD-085-GW081910	Pb-212	Suspended	1.83	1.3	0.49	0.63
RD-85	SMRD-085-GW081910	Pb-212	Total	1.8	NA	1	NA
RD-85	SMRD-085-GW081910	Pb-214	Filtered	1.8	3.2	1.1	1.5
RD-85	SMRD-085-GW081910	Pb-214	Suspended	1.83	1.4	0.52	0.68
RD-85	SMRD-085-GW081910	Pb-214	Total	3.6	NA	1.3	NA
RD-85	SMRD-085-GW081910	Sb-125	Filtered	1.9 U	9.9	2.9	4.7
RD-85	SMRD-085-GW081910	Sb-125	Suspended	0.0007 U	6.1	1.8	3
RD-85	SMRD-085-GW081910	Sb-125	Total	1.9	NA	3.4	NA
RD-85	SMRD-085-GW081910	Sn-126	Filtered	0.09 U	1.7	0.5	0.81
RD-85	SMRD-085-GW081910	Sn-126	Suspended	0.02 U	0.8	0.23	0.38
RD-85	SMRD-085-GW081910	Sn-126	Total	0.11	NA	0.55	NA
RD-85	SMRD-085-GW081910	Sr-90	Suspended	-0.024 U	0.07	0.019	0.04
RD-85	SMRD-085-GW081910	Sr-90	Total	0.022	NA	0.067	NA
RD-85	SMRD-085-GW081910	Te-125m	Filtered	0.44 U	2.3	0.68	1.1
RD-85	SMRD-085-GW081910	Te-125m	Suspended	0.0002 U	1.4	0.42	0.68
RD-85	SMRD-085-GW081910	Te-125m	Total	0.44	NA	0.79	NA
RD-85	SMRD-085-GW081910	Th-231	Filtered	0.159	0.017	0.033	0.009
RD-85	SMRD-085-GW081910	Th-231	Suspended	0.0015 U	0.036	0.0068	0.012
RD-85	SMRD-085-GW081910	Th-231	Total	0.161	NA	0.033	NA
RD-85	SMRD-085-GW081910	Th-234	Filtered	14	21	6.5	10
RD-85	SMRD-085-GW081910	Th-234	Suspended	0.7 U	7.4	2.4	3.6
RD-85	SMRD-085-GW081910	Th-234	Total	14.8	NA	6.9	NA
RD-85	SMRD-085-GW081910	Tl-208	Filtered	-0.009 U	2	0.54	0.96
RD-85	SMRD-085-GW081910	Tl-208	Suspended	0.66	0.81	0.3	0.39
RD-85	SMRD-085-GW081910	Tl-208	Total	0.65	NA	0.62	NA
RD-85	SMRD-085-GW081910	Tm-171	Filtered	146 U	320	97	150
RD-85	SMRD-085-GW081910	Tm-171	Suspended	0 U	130	39	64
RD-85	SMRD-085-GW081910	Tm-171	Total	150	NA	100	NA
RD-85	SMRD-085-GW081910	U-233/234	Filtered	2.35	0.03	0.15	0.007
RD-85	SMRD-085-GW081910	U-233/234	Suspended	0.037	0.041	0.017	0.017
RD-85	SMRD-085-GW081910	U-233/234	Total	2.38	NA	0.15	NA
RD-85	SMRD-085-GW081910	U-235/236	Filtered	0.159	0.017	0.033	0.009
RD-85	SMRD-085-GW081910	U-235/236	Suspended	0.0015 U	0.036	0.0068	0.012

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-085-GW081910	U-235/236	Total	0.161	NA	0.033	NA
RD-85	SMRD-085-GW081910	U-238	Filtered	1.93	0.03	0.13	0.007
RD-85	SMRD-085-GW081910	U-238	Suspended	0.019 U	0.067	0.02	0.033
RD-85	SMRD-085-GW081910	U-238	Total	1.95	NA	0.13	NA
RD-86	SMRD-086-GW081910	Ac-227	Filtered	-3.6 U	8.9	2.7	4.4
RD-86	SMRD-086-GW081910	Ac-227	Suspended	-1.2 U	4.4	1.3	2.1
RD-86	SMRD-086-GW081910	Ac-227	Total	-4.8	NA	3	NA
RD-86	SMRD-086-GW081910	Ac-228	Filtered	7.8	3.5	1.9	1.6
RD-86	SMRD-086-GW081910	Ac-228	Suspended	2.9	2.4	0.8	1.2
RD-86	SMRD-086-GW081910	Ac-228	Total	10.7	NA	2	NA
RD-86	SMRD-086-GW081910	Ag-108	Filtered	-0.0001 U R	0.087	0.025	0.041
RD-86	SMRD-086-GW081910	Ag-108	Suspended	-0.002 U R	0.054	0.016	0.026
RD-86	SMRD-086-GW081910	Ag-108	Total	-0.003 R	NA	0.03	NA
RD-86	SMRD-086-GW081910	Ag-108m	Filtered	-0.002 U R	0.93	0.27	0.45
RD-86	SMRD-086-GW081910	Ag-108m	Suspended	-0.03 U R	0.58	0.17	0.28
RD-86	SMRD-086-GW081910	Ag-108m	Total	-0.03 R	NA	0.32	NA
RD-86	SMRD-086-GW081910	Ba-133	Filtered	-2.1 U R	12	3.6	5.9
RD-86	SMRD-086-GW081910	Ba-133	Suspended	0.5 U R	6.2	1.8	3
RD-86	SMRD-086-GW081910	Ba-133	Total	-1.7 R	NA	4	NA
RD-86	SMRD-086-GW081910	Ba-137m	Filtered	-0.5 U	1.2	0.37	0.59
RD-86	SMRD-086-GW081910	Ba-137m	Suspended	0.12 U	0.57	0.17	0.27
RD-86	SMRD-086-GW081910	Ba-137m	Total	-0.38	NA	0.41	NA
RD-86	SMRD-086-GW081910	Bi-212	Filtered	-2.2 U	11	6.3	5.1
RD-86	SMRD-086-GW081910	Bi-212	Suspended	0.2 U	6.2	1.7	3
RD-86	SMRD-086-GW081910	Bi-212	Total	-2	NA	6.5	NA
RD-86	SMRD-086-GW081910	Bi-214	Filtered	2.2	3.2	1.4	1.6
RD-86	SMRD-086-GW081910	Bi-214	Suspended	1.24	1.6	0.55	0.75
RD-86	SMRD-086-GW081910	Bi-214	Total	3.5	NA	1.5	NA
RD-86	SMRD-086-GW081910	Cd-113m	Filtered	600 U	11000	3300	5400
RD-86	SMRD-086-GW081910	Cd-113m	Suspended	60 U	6700	2000	3200
RD-86	SMRD-086-GW081910	Cd-113m	Total	700	NA	3800	NA
RD-86	SMRD-086-GW081910	Cf-249	Filtered	1.7 U R	5.4	1.6	2.6
RD-86	SMRD-086-GW081910	Cf-249	Suspended	-0.18 U R	2.5	0.74	1.2
RD-86	SMRD-086-GW081910	Cf-249	Total	1.5 R	NA	1.8	NA
RD-86	SMRD-086-GW081910	Co-60	Filtered	0 U	1.7	0.5	0.82
RD-86	SMRD-086-GW081910	Co-60	Suspended	-0.02 U	0.74	0.21	0.34
RD-86	SMRD-086-GW081910	Co-60	Total	-0.02	NA	0.54	NA
RD-86	SMRD-086-GW081910	Cs-134	Filtered	-0.31 U	1.4	0.43	0.69

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-086-GW081910	Cs-134	Suspended	0.09 U	0.62	0.18	0.3
RD-86	SMRD-086-GW081910	Cs-134	Total	-0.22	NA	0.47	NA
RD-86	SMRD-086-GW081910	Cs-137	Filtered	-0.53 U	1.3	0.39	0.62
RD-86	SMRD-086-GW081910	Cs-137	Suspended	0.13 U	0.61	0.18	0.29
RD-86	SMRD-086-GW081910	Cs-137	Total	-0.4	NA	0.43	NA
RD-86	SMRD-086-GW081910	Eu-152	Filtered	-0.9 U	3.5	1.1	1.7
RD-86	SMRD-086-GW081910	Eu-152	Suspended	0.26 U	1.4	0.41	0.66
RD-86	SMRD-086-GW081910	Eu-152	Total	-0.6	NA	1.1	NA
RD-86	SMRD-086-GW081910	Eu-154	Filtered	0.5 U	9.7	2.8	4.6
RD-86	SMRD-086-GW081910	Eu-154	Suspended	-0.5 U	6.2	1.8	2.9
RD-86	SMRD-086-GW081910	Eu-154	Total	-0.06	NA	3.3	NA
RD-86	SMRD-086-GW081910	Eu-155	Filtered	0.2 U	3.6	1.1	1.7
RD-86	SMRD-086-GW081910	Eu-155	Suspended	-0.05 U	1.2	0.37	0.6
RD-86	SMRD-086-GW081910	Eu-155	Total	0.2	NA	1.1	NA
RD-86	SMRD-086-GW081910	gross_alpha	Filtered	3.97	0.42	0.4	0.22
RD-86	SMRD-086-GW081910	gross_alpha	Suspended	0.14 U	0.76	0.21	0.41
RD-86	SMRD-086-GW081910	gross_alpha	Total	4.11	NA	0.46	NA
RD-86	SMRD-086-GW081910	gross_beta	Filtered	206	2.4	8.5	1.4
RD-86	SMRD-086-GW081910	gross_beta	Suspended	0.64	0.74	0.24	0.44
RD-86	SMRD-086-GW081910	gross_beta	Total	206	NA	8.5	NA
RD-86	SMRD-086-GW081910	H-3	Filtered	-5 U	140	40	66
RD-86	SMRD-086-GW081910	H-3	Suspended	3.5 U	13	3.8	5.6
RD-86	SMRD-086-GW081910	H-3	Total	-2	NA	40	NA
RD-86	SMRD-086-GW081910	Ho-166m	Filtered	-0.18 U	1.9	0.55	0.9
RD-86	SMRD-086-GW081910	Ho-166m	Suspended	0.23 U	1	0.31	0.5
RD-86	SMRD-086-GW081910	Ho-166m	Total	0.05	NA	0.63	NA
RD-86	SMRD-086-GW081910	K-40	Filtered	-1.3 U	25	7.5	12
RD-86	SMRD-086-GW081910	K-40	Suspended	6.7	9.6	3.4	4.5
RD-86	SMRD-086-GW081910	K-40	Total	5.4	NA	8.3	NA
RD-86	SMRD-086-GW081910	Na-22	Filtered	-0.27 U	1.3	0.38	0.61
RD-86	SMRD-086-GW081910	Na-22	Suspended	0.11 U	0.79	0.23	0.37
RD-86	SMRD-086-GW081910	Na-22	Total	-0.15	NA	0.45	NA
RD-86	SMRD-086-GW081910	Nb-94	Filtered	0 U	1.2	0.36	0.59
RD-86	SMRD-086-GW081910	Nb-94	Suspended	0 U	0.75	0.22	0.36
RD-86	SMRD-086-GW081910	Nb-94	Total	0	NA	0.42	NA
RD-86	SMRD-086-GW081910	Np-236	Filtered	0.33 U	2.2	0.66	1.1
RD-86	SMRD-086-GW081910	Np-236	Suspended	-0.15 U	1.2	0.36	0.59
RD-86	SMRD-086-GW081910	Np-236	Total	0.17	NA	0.75	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-086-GW081910	Np-239	Filtered	1.7 U	6.9	2.1	3.3
RD-86	SMRD-086-GW081910	Np-239	Suspended	-1.2 U	3.7	1.1	1.8
RD-86	SMRD-086-GW081910	Np-239	Total	0.4	NA	2.3	NA
RD-86	SMRD-086-GW081910	Pa-231	Filtered	18 U	54	16	26
RD-86	SMRD-086-GW081910	Pa-231	Suspended	0 U	26	7.7	13
RD-86	SMRD-086-GW081910	Pa-231	Total	18	NA	18	NA
RD-86	SMRD-086-GW081910	Pb-212	Filtered	-0.8 U	3.2	1	1.6
RD-86	SMRD-086-GW081910	Pb-212	Suspended	-0.02 U	1.2	0.42	0.61
RD-86	SMRD-086-GW081910	Pb-212	Total	-0.8	NA	1.1	NA
RD-86	SMRD-086-GW081910	Pb-214	Filtered	1.72	2.5	0.86	1.2
RD-86	SMRD-086-GW081910	Pb-214	Suspended	1.14	1.4	0.56	0.7
RD-86	SMRD-086-GW081910	Pb-214	Total	2.9	NA	1	NA
RD-86	SMRD-086-GW081910	Sb-125	Filtered	-1 U	15	4.3	7.1
RD-86	SMRD-086-GW081910	Sb-125	Suspended	-1.6 U	6.2	1.9	3
RD-86	SMRD-086-GW081910	Sb-125	Total	-2.6	NA	4.7	NA
RD-86	SMRD-086-GW081910	Sn-126	Filtered	0.3 U	1.2	0.36	0.57
RD-86	SMRD-086-GW081910	Sn-126	Suspended	0.17 U	0.7	0.21	0.33
RD-86	SMRD-086-GW081910	Sn-126	Total	0.46	NA	0.41	NA
RD-86	SMRD-086-GW081910	Sr-90	Suspended	0.025 U	0.074	0.022	0.042
RD-86	SMRD-086-GW081910	Sr-90	Total	0.092	NA	0.067	NA
RD-86	SMRD-086-GW081910	Te-125m	Filtered	-0.23 U	3.4	0.998	1.6
RD-86	SMRD-086-GW081910	Te-125m	Suspended	-0.37 U	1.4	0.43	0.7
RD-86	SMRD-086-GW081910	Te-125m	Total	-0.6	NA	1.1	NA
RD-86	SMRD-086-GW081910	Th-231	Filtered	0.102	0.016	0.025	0.009
RD-86	SMRD-086-GW081910	Th-231	Suspended	0 U	0.015	0.0021	0.008
RD-86	SMRD-086-GW081910	Th-231	Total	0.102	NA	0.025	NA
RD-86	SMRD-086-GW081910	Th-234	Filtered	8.5 U	24	8.9	12
RD-86	SMRD-086-GW081910	Th-234	Suspended	5.4	7.4	2.5	3.6
RD-86	SMRD-086-GW081910	Th-234	Total	13.9	NA	9.3	NA
RD-86	SMRD-086-GW081910	Tl-208	Filtered	0.19 U	1.5	0.47	0.74
RD-86	SMRD-086-GW081910	Tl-208	Suspended	0.31 U	0.82	0.3	0.39
RD-86	SMRD-086-GW081910	Tl-208	Total	0.49	NA	0.56	NA
RD-86	SMRD-086-GW081910	Tm-171	Filtered	190 U	430	130	210
RD-86	SMRD-086-GW081910	Tm-171	Suspended	44 U	120	37	60
RD-86	SMRD-086-GW081910	Tm-171	Total	230	NA	130	NA
RD-86	SMRD-086-GW081910	U-233/234	Filtered	1.98	0.04	0.13	0.01
RD-86	SMRD-086-GW081910	U-233/234	Suspended	0.024	0.033	0.014	0.013
RD-86	SMRD-086-GW081910	U-233/234	Total	2	NA	0.13	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-086-GW081910	U-235/236	Filtered	0.102	0.016	0.025	0.009
RD-86	SMRD-086-GW081910	U-235/236	Suspended	0 U	0.015	0.0021	0.008
RD-86	SMRD-086-GW081910	U-235/236	Total	0.102	NA	0.025	NA
RD-86	SMRD-086-GW081910	U-238	Filtered	2	0.02	0.13	0.007
RD-86	SMRD-086-GW081910	U-238	Suspended	0.024	0.03	0.013	0.011
RD-86	SMRD-086-GW081910	U-238	Total	2.02	NA	0.13	NA
RD-87	SMRD-087-GW090210	Ac-227	Filtered	-3.3 U	9	2.7	4.4
RD-87	SMRD-087-GW090210	Ac-227	Suspended	-2.5 U	4.3	1.3	2.1
RD-87	SMRD-087-GW090210	Ac-227	Total	-5.8	NA	3	NA
RD-87	SMRD-087-GW090210	Ac-228	Filtered	0.7 U B	4.6	1.3	2.1
RD-87	SMRD-087-GW090210	Ac-228	Suspended	1.66	2.2	0.7	1
RD-87	SMRD-087-GW090210	Ac-228	Total	2.3 B	NA	1.5	NA
RD-87	SMRD-087-GW090210	Ag-108	Filtered	0.031 U R	0.11	0.034	0.055
RD-87	SMRD-087-GW090210	Ag-108	Suspended	0.015 U R	0.051	0.015	0.024
RD-87	SMRD-087-GW090210	Ag-108	Total	0.046 R	NA	0.037	NA
RD-87	SMRD-087-GW090210	Ag-108m	Filtered	0.33 U R	1.2	0.37	0.59
RD-87	SMRD-087-GW090210	Ag-108m	Suspended	0.16 U R	0.55	0.16	0.26
RD-87	SMRD-087-GW090210	Ag-108m	Total	0.49 R	NA	0.4	NA
RD-87	SMRD-087-GW090210	Ba-133	Filtered	-2.5 U R	14	4.1	6.6
RD-87	SMRD-087-GW090210	Ba-133	Suspended	0.1 U R	4.6	1.3	2.2
RD-87	SMRD-087-GW090210	Ba-133	Total	-2.4 R	NA	4.3	NA
RD-87	SMRD-087-GW090210	Ba-137m	Filtered	-0.02 U	1.3	0.37	0.61
RD-87	SMRD-087-GW090210	Ba-137m	Suspended	0.24 U	0.63	0.19	0.3
RD-87	SMRD-087-GW090210	Ba-137m	Total	0.22	NA	0.42	NA
RD-87	SMRD-087-GW090210	Bi-212	Filtered	-2.6 U	12	3.5	5.6
RD-87	SMRD-087-GW090210	Bi-212	Suspended	3.2	6.2	1.9	2.9
RD-87	SMRD-087-GW090210	Bi-212	Total	0.5	NA	4	NA
RD-87	SMRD-087-GW090210	Bi-214	Filtered	-0.8 U	3.2	1.5	1.5
RD-87	SMRD-087-GW090210	Bi-214	Suspended	1.17	1.8	0.81	0.88
RD-87	SMRD-087-GW090210	Bi-214	Total	0.4	NA	1.7	NA
RD-87	SMRD-087-GW090210	Cd-113m	Filtered	3800 U	14000	4200	6800
RD-87	SMRD-087-GW090210	Cd-113m	Suspended	2700	5300	1600	2500
RD-87	SMRD-087-GW090210	Cd-113m	Total	6600	NA	4500	NA
RD-87	SMRD-087-GW090210	Cf-249	Filtered	-1.4 U R	6.7	2	3.2
RD-87	SMRD-087-GW090210	Cf-249	Suspended	-0.02 U B	3	0.87	1.4
RD-87	SMRD-087-GW090210	Cf-249	Total	-1.5 B R	NA	2.2	NA
RD-87	SMRD-087-GW090210	Co-60	Filtered	0.3 U	1.6	0.46	0.72
RD-87	SMRD-087-GW090210	Co-60	Suspended	-0.13 U	0.83	0.24	0.38

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-087-GW090210	Co-60	Total	0.17	NA	0.52	NA
RD-87	SMRD-087-GW090210	Cs-134	Filtered	0.08 U	1.5	0.44	0.72
RD-87	SMRD-087-GW090210	Cs-134	Suspended	-0.22 U	0.84	0.25	0.41
RD-87	SMRD-087-GW090210	Cs-134	Total	-0.14	NA	0.5	NA
RD-87	SMRD-087-GW090210	Cs-137	Filtered	-0.03 U	1.4	0.39	0.64
RD-87	SMRD-087-GW090210	Cs-137	Suspended	0.26 U	0.66	0.2	0.31
RD-87	SMRD-087-GW090210	Cs-137	Total	0.23	NA	0.44	NA
RD-87	SMRD-087-GW090210	Eu-152	Filtered	-0.9 U	4	1.2	1.9
RD-87	SMRD-087-GW090210	Eu-152	Suspended	0.51 U	1.8	0.53	0.85
RD-87	SMRD-087-GW090210	Eu-152	Total	-0.4	NA	1.3	NA
RD-87	SMRD-087-GW090210	Eu-154	Filtered	2 U	10	3	4.7
RD-87	SMRD-087-GW090210	Eu-154	Suspended	-1.6 U	6.7	2	3.2
RD-87	SMRD-087-GW090210	Eu-154	Total	0.5	NA	3.6	NA
RD-87	SMRD-087-GW090210	Eu-155	Filtered	1.05 U	3.2	0.96	1.5
RD-87	SMRD-087-GW090210	Eu-155	Suspended	0.01 U	1.2	0.35	0.57
RD-87	SMRD-087-GW090210	Eu-155	Total	1.1	NA	1	NA
RD-87	SMRD-087-GW090210	gross_alpha	Filtered	17.9	0.4	1.1	0.2
RD-87	SMRD-087-GW090210	gross_alpha	Suspended	0.43	0.74	0.23	0.4
RD-87	SMRD-087-GW090210	gross_alpha	Total	18.3	NA	1.1	NA
RD-87	SMRD-087-GW090210	gross_beta	Filtered	11.7	2	1.1	1.1
RD-87	SMRD-087-GW090210	gross_beta	Suspended	3.09	0.73	0.35	0.43
RD-87	SMRD-087-GW090210	gross_beta	Total	14.8	NA	1.2	NA
RD-87	SMRD-087-GW090210	H-3	Filtered	7630	130	350	60
RD-87	SMRD-087-GW090210	H-3	Total	7630 R	NA	350	NA
RD-87	SMRD-087-GW090210	Ho-166m	Filtered	-0.25 U	2.3	0.65	1.1
RD-87	SMRD-087-GW090210	Ho-166m	Suspended	-0.01 U	1	0.3	0.49
RD-87	SMRD-087-GW090210	Ho-166m	Total	-0.26	NA	0.72	NA
RD-87	SMRD-087-GW090210	K-40	Filtered	13.6	15	4.9	6.8
RD-87	SMRD-087-GW090210	K-40	Suspended	-5.3 U	11	5.3	5.2
RD-87	SMRD-087-GW090210	K-40	Total	8.3	NA	7.2	NA
RD-87	SMRD-087-GW090210	Na-22	Filtered	-0.28 U	1.8	0.51	0.82
RD-87	SMRD-087-GW090210	Na-22	Suspended	0.14 U	0.84	0.24	0.39
RD-87	SMRD-087-GW090210	Na-22	Total	-0.14	NA	0.57	NA
RD-87	SMRD-087-GW090210	Nb-94	Filtered	-0.4 U	1.3	0.38	0.6
RD-87	SMRD-087-GW090210	Nb-94	Suspended	-0.19 U	0.65	0.19	0.31
RD-87	SMRD-087-GW090210	Nb-94	Total	-0.59	NA	0.42	NA
RD-87	SMRD-087-GW090210	Np-236	Filtered	-0.1 U	2.7	0.8	1.3
RD-87	SMRD-087-GW090210	Np-236	Suspended	0.12 U	1.1	0.34	0.55

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-087-GW090210	Np-236	Total	0.02	NA	0.87	NA
RD-87	SMRD-087-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-87	SMRD-087-GW090210	Np-239	Filtered	-1.8 U	8	2.4	3.9
RD-87	SMRD-087-GW090210	Np-239	Suspended	0.23 U	2.9	0.86	1.4
RD-87	SMRD-087-GW090210	Np-239	Total	-1.6	NA	2.5	NA
RD-87	SMRD-087-GW090210	Pa-231	Filtered	23	47	14	22
RD-87	SMRD-087-GW090210	Pa-231	Suspended	8 U	27	8.2	13
RD-87	SMRD-087-GW090210	Pa-231	Total	31	NA	16	NA
RD-87	SMRD-087-GW090210	Pb-212	Filtered	0.8 U	2.6	0.97	1.2
RD-87	SMRD-087-GW090210	Pb-212	Suspended	0.83	1.3	0.47	0.62
RD-87	SMRD-087-GW090210	Pb-212	Total	1.6	NA	1.1	NA
RD-87	SMRD-087-GW090210	Pb-214	Filtered	-0.15 U	3	0.94	1.4
RD-87	SMRD-087-GW090210	Pb-214	Suspended	0.26 U	1.4	0.52	0.7
RD-87	SMRD-087-GW090210	Pb-214	Total	0.1	NA	1.1	NA
RD-87	SMRD-087-GW090210	Sb-125	Filtered	1.6 U	13	3.8	6.3
RD-87	SMRD-087-GW090210	Sb-125	Suspended	-1.8 U	6.3	1.9	3
RD-87	SMRD-087-GW090210	Sb-125	Total	-0.2	NA	4.3	NA
RD-87	SMRD-087-GW090210	Sn-126	Filtered	0.55 U	1.5	0.45	0.7
RD-87	SMRD-087-GW090210	Sn-126	Suspended	0.18 U	0.84	0.25	0.4
RD-87	SMRD-087-GW090210	Sn-126	Total	0.73	NA	0.51	NA
RD-87	SMRD-087-GW090210	Sr-90	Filtered	0.003 U	0.17	0.05	0.098
RD-87	SMRD-087-GW090210	Sr-90	Suspended	-0.057 U	0.11	0.029	0.061
RD-87	SMRD-087-GW090210	Sr-90	Total	-0.054	NA	0.058	NA
RD-87	SMRD-087-GW090210	Te-125m	Filtered	0.37 U	3	0.89	1.4
RD-87	SMRD-087-GW090210	Te-125m	Suspended	-0.41 U	1.4	0.43	0.7
RD-87	SMRD-087-GW090210	Te-125m	Total	-0.04	NA	0.99	NA
RD-87	SMRD-087-GW090210	Th-231	Filtered	0.361	0.019	0.034	0.006
RD-87	SMRD-087-GW090210	Th-231	Suspended	0.0103	0.007	0.0052	0.006
RD-87	SMRD-087-GW090210	Th-231	Total	0.371	NA	0.035	NA
RD-87	SMRD-087-GW090210	Th-234	Filtered	8.6 U	23	7.6	11
RD-87	SMRD-087-GW090210	Th-234	Suspended	-2.3 U	7.3	3.3	3.6
RD-87	SMRD-087-GW090210	Th-234	Total	6.3	NA	8.3	NA
RD-87	SMRD-087-GW090210	Tl-208	Filtered	-1 U	1.9	3.1	0.9
RD-87	SMRD-087-GW090210	Tl-208	Suspended	-0.06 U	0.99	0.31	0.48
RD-87	SMRD-087-GW090210	Tl-208	Total	-1	NA	3.1	NA
RD-87	SMRD-087-GW090210	Tm-171	Filtered	20 U	360	110	170
RD-87	SMRD-087-GW090210	Tm-171	Suspended	12 U	130	39	63
RD-87	SMRD-087-GW090210	Tm-171	Total	30	NA	110	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-087-GW090210	U-233/234	Filtered	8.58	0.03	0.38	0.01
RD-87	SMRD-087-GW090210	U-233/234	Suspended	-0.0044 U	0.015	0.0046	0.0048
RD-87	SMRD-087-GW090210	U-233/234	Total	8.58	NA	0.38	NA
RD-87	SMRD-087-GW090210	U-235/236	Filtered	0.361	0.019	0.034	0.006
RD-87	SMRD-087-GW090210	U-235/236	Suspended	0.0103	0.007	0.0052	0.006
RD-87	SMRD-087-GW090210	U-235/236	Total	0.371	NA	0.035	NA
RD-87	SMRD-087-GW090210	U-238	Filtered	8.14	0.02	0.37	0.007
RD-87	SMRD-087-GW090210	U-238	Suspended	-0.0058 U	0.019	0.0046	0.0068
RD-87	SMRD-087-GW090210	U-238	Total	8.14	NA	0.37	NA
RD-88	SMRD-088-GW090210	Ac-227	Filtered	-7.3 L U	10	3.2	5.1
RD-88	SMRD-088-GW090210	Ac-227	Suspended	-0.9 U	3.8	1.1	1.8
RD-88	SMRD-088-GW090210	Ac-227	Total	-8.2 L	NA	3.4	NA
RD-88	SMRD-088-GW090210	Ac-228	Filtered	0.3 U B	4.5	1.3	2.1
RD-88	SMRD-088-GW090210	Ac-228	Suspended	2.54	2.5	0.8	1.2
RD-88	SMRD-088-GW090210	Ac-228	Total	2.8 B	NA	1.5	NA
RD-88	SMRD-088-GW090210	Ag-108	Filtered	0 U R	0.097	0.028	0.047
RD-88	SMRD-088-GW090210	Ag-108	Suspended	0.016 U R	0.053	0.016	0.026
RD-88	SMRD-088-GW090210	Ag-108	Total	0.016 R	NA	0.033	NA
RD-88	SMRD-088-GW090210	Ag-108m	Filtered	0 U R	1	0.31	0.5
RD-88	SMRD-088-GW090210	Ag-108m	Suspended	0.17 U R	0.57	0.17	0.27
RD-88	SMRD-088-GW090210	Ag-108m	Total	0.17 R	NA	0.35	NA
RD-88	SMRD-088-GW090210	Ba-133	Filtered	3.7 U R	13	4	6.4
RD-88	SMRD-088-GW090210	Ba-133	Suspended	-1.6 U R	6	1.8	2.9
RD-88	SMRD-088-GW090210	Ba-133	Total	2.1 R	NA	4.4	NA
RD-88	SMRD-088-GW090210	Ba-137m	Filtered	0.08 U	1.2	0.36	0.59
RD-88	SMRD-088-GW090210	Ba-137m	Suspended	0.09 U	0.74	0.22	0.35
RD-88	SMRD-088-GW090210	Ba-137m	Total	0.17	NA	0.42	NA
RD-88	SMRD-088-GW090210	Bi-212	Filtered	1.1 U	11	3	5.2
RD-88	SMRD-088-GW090210	Bi-212	Suspended	4.1	5.7	1.8	2.7
RD-88	SMRD-088-GW090210	Bi-212	Total	5.2	NA	3.5	NA
RD-88	SMRD-088-GW090210	Bi-214	Filtered	-0.07 U	2.9	0.87	1.4
RD-88	SMRD-088-GW090210	Bi-214	Suspended	0.86	1.7	0.57	0.82
RD-88	SMRD-088-GW090210	Bi-214	Total	0.8	NA	1	NA
RD-88	SMRD-088-GW090210	Cd-113m	Filtered	3000 U	15000	4600	7500
RD-88	SMRD-088-GW090210	Cd-113m	Suspended	-1700 U	8100	2400	3900
RD-88	SMRD-088-GW090210	Cd-113m	Total	1300	NA	5200	NA
RD-88	SMRD-088-GW090210	Cf-249	Filtered	-1.9 U R	6.5	2	3.2
RD-88	SMRD-088-GW090210	Cf-249	Suspended	0.07 U B	3.4	0.99	1.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-088-GW090210	Cf-249	Total	-1.9 B R	NA	2.2	NA
RD-88	SMRD-088-GW090210	Co-60	Filtered	0.3 U	1.3	0.37	0.59
RD-88	SMRD-088-GW090210	Co-60	Suspended	0.02 U	0.87	0.25	0.41
RD-88	SMRD-088-GW090210	Co-60	Total	0.31	NA	0.44	NA
RD-88	SMRD-088-GW090210	Cs-134	Filtered	-0.18 U	1.6	0.46	0.76
RD-88	SMRD-088-GW090210	Cs-134	Suspended	0.97 SK	0.78	0.25	0.37
RD-88	SMRD-088-GW090210	Cs-134	Total	0.78	NA	0.53	NA
RD-88	SMRD-088-GW090210	Cs-137	Filtered	0.08 U	1.3	0.38	0.62
RD-88	SMRD-088-GW090210	Cs-137	Suspended	0.1 U	0.78	0.23	0.37
RD-88	SMRD-088-GW090210	Cs-137	Total	0.18	NA	0.44	NA
RD-88	SMRD-088-GW090210	Eu-152	Filtered	0.09 U	3.1	0.9	1.5
RD-88	SMRD-088-GW090210	Eu-152	Suspended	0.45 U	1.9	0.55	0.89
RD-88	SMRD-088-GW090210	Eu-152	Total	0.5	NA	1.1	NA
RD-88	SMRD-088-GW090210	Eu-154	Filtered	-1.1 U	10	3	4.9
RD-88	SMRD-088-GW090210	Eu-154	Suspended	1.9 U	6.4	1.9	3
RD-88	SMRD-088-GW090210	Eu-154	Total	0.8	NA	3.6	NA
RD-88	SMRD-088-GW090210	Eu-155	Filtered	-0.9 U	3.4	1	1.7
RD-88	SMRD-088-GW090210	Eu-155	Suspended	0.25 U	1.3	0.38	0.62
RD-88	SMRD-088-GW090210	Eu-155	Total	-0.7	NA	1.1	NA
RD-88	SMRD-088-GW090210	gross_alpha	Filtered	18.9	0.6	1.1	0.3
RD-88	SMRD-088-GW090210	gross_alpha	Suspended	14.9	0.9	1.1	0.5
RD-88	SMRD-088-GW090210	gross_alpha	Total	33.8	NA	1.6	NA
RD-88	SMRD-088-GW090210	gross_beta	Filtered	14.1	2.7	1.4	1.5
RD-88	SMRD-088-GW090210	gross_beta	Suspended	1.22	0.7	0.27	0.4
RD-88	SMRD-088-GW090210	gross_beta	Total	15.4	NA	1.4	NA
RD-88	SMRD-088-GW090210	H-3	Filtered	44800	200	2000	70
RD-88	SMRD-088-GW090210	H-3	Suspended	10.3 R	15	4.9	6.6
RD-88	SMRD-088-GW090210	H-3	Total	44800 R	NA	2000	NA
RD-88	SMRD-088-GW090210	Ho-166m	Filtered	-0.57 U	2.1	0.63	1
RD-88	SMRD-088-GW090210	Ho-166m	Suspended	0 U	1.3	0.38	0.63
RD-88	SMRD-088-GW090210	Ho-166m	Total	-0.57	NA	0.74	NA
RD-88	SMRD-088-GW090210	K-40	Filtered	20.7	26	7.2	12
RD-88	SMRD-088-GW090210	K-40	Suspended	-4.6 U	11	4.7	5.4
RD-88	SMRD-088-GW090210	K-40	Total	16.1	NA	8.6	NA
RD-88	SMRD-088-GW090210	Na-22	Filtered	0.05 U	1.4	0.4	0.66
RD-88	SMRD-088-GW090210	Na-22	Suspended	0.1 U	0.8	0.23	0.37
RD-88	SMRD-088-GW090210	Na-22	Total	0.14	NA	0.46	NA
RD-88	SMRD-088-GW090210	Nb-94	Filtered	0.12 U	1.2	0.35	0.57

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-088-GW090210	Nb-94	Suspended	0.14 U	0.69	0.2	0.33
RD-88	SMRD-088-GW090210	Nb-94	Total	0.26	NA	0.41	NA
RD-88	SMRD-088-GW090210	Np-236	Filtered	-1.01 U	3	0.91	1.5
RD-88	SMRD-088-GW090210	Np-236	Suspended	-0.33 U	1.3	0.38	0.61
RD-88	SMRD-088-GW090210	Np-236	Total	-1.34	NA	0.99	NA
RD-88	SMRD-088-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-88	SMRD-088-GW090210	Np-239	Filtered	0.6 U	8.2	2.4	4
RD-88	SMRD-088-GW090210	Np-239	Suspended	1.4 U	4	1.2	1.9
RD-88	SMRD-088-GW090210	Np-239	Total	2	NA	2.7	NA
RD-88	SMRD-088-GW090210	Pa-231	Filtered	3 U	59	18	29
RD-88	SMRD-088-GW090210	Pa-231	Suspended	3.8 U	30	8.9	14
RD-88	SMRD-088-GW090210	Pa-231	Total	7	NA	20	NA
RD-88	SMRD-088-GW090210	Pb-212	Filtered	-0.02 U	3	0.92	1.5
RD-88	SMRD-088-GW090210	Pb-212	Suspended	0.51 U	1.3	0.46	0.65
RD-88	SMRD-088-GW090210	Pb-212	Total	0.5	NA	1	NA
RD-88	SMRD-088-GW090210	Pb-214	Filtered	-0.2 U	2.9	1.1	1.4
RD-88	SMRD-088-GW090210	Pb-214	Suspended	0.28 U	1.5	0.48	0.71
RD-88	SMRD-088-GW090210	Pb-214	Total	0.1	NA	1.2	NA
RD-88	SMRD-088-GW090210	Sb-125	Filtered	7.3 SK	12	3.7	5.8
RD-88	SMRD-088-GW090210	Sb-125	Suspended	-0.06 U	6.7	2	3.3
RD-88	SMRD-088-GW090210	Sb-125	Total	7.3	NA	4.2	NA
RD-88	SMRD-088-GW090210	Sn-126	Filtered	-0.11 U	1.4	0.41	0.68
RD-88	SMRD-088-GW090210	Sn-126	Suspended	0.24 U	0.76	0.23	0.36
RD-88	SMRD-088-GW090210	Sn-126	Total	0.13	NA	0.47	NA
RD-88	SMRD-088-GW090210	Sr-90	Filtered	0.018 U	0.14	0.04	0.078
RD-88	SMRD-088-GW090210	Sr-90	Suspended	-0.019 U	0.096	0.027	0.054
RD-88	SMRD-088-GW090210	Sr-90	Total	-0.001	NA	0.048	NA
RD-88	SMRD-088-GW090210	Te-125m	Filtered	1.7 SK	2.8	0.85	1.3
RD-88	SMRD-088-GW090210	Te-125m	Suspended	-0.01 U	1.6	0.46	0.76
RD-88	SMRD-088-GW090210	Te-125m	Total	1.68	NA	0.96	NA
RD-88	SMRD-088-GW090210	Th-231	Filtered	0.611	0.008	0.049	0.007
RD-88	SMRD-088-GW090210	Th-231	Suspended	0.0136	0.0074	0.0061	0.0063
RD-88	SMRD-088-GW090210	Th-231	Total	0.625	NA	0.049	NA
RD-88	SMRD-088-GW090210	Th-234	Filtered	17.5	24	8.6	12
RD-88	SMRD-088-GW090210	Th-234	Suspended	1.1 U	8.6	3	4.2
RD-88	SMRD-088-GW090210	Th-234	Total	18.5	NA	9.1	NA
RD-88	SMRD-088-GW090210	Tl-208	Filtered	0.85 U	1.9	0.78	0.93
RD-88	SMRD-088-GW090210	Tl-208	Suspended	0.72	0.85	0.32	0.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-088-GW090210	Tl-208	Total	1.57	NA	0.84	NA
RD-88	SMRD-088-GW090210	Tm-171	Filtered	9 U	480	140	240
RD-88	SMRD-088-GW090210	Tm-171	Suspended	-52 U	140	44	70
RD-88	SMRD-088-GW090210	Tm-171	Total	-40	NA	150	NA
RD-88	SMRD-088-GW090210	U-233/234	Filtered	13.6	0.02	0.6	0.005
RD-88	SMRD-088-GW090210	U-233/234	Suspended	0.44	0.02	0.037	0.007
RD-88	SMRD-088-GW090210	U-233/234	Total	14.1	NA	0.6	NA
RD-88	SMRD-088-GW090210	U-235/236	Filtered	0.611	0.008	0.049	0.007
RD-88	SMRD-088-GW090210	U-235/236	Suspended	0.0136	0.0074	0.0061	0.0063
RD-88	SMRD-088-GW090210	U-235/236	Total	0.625	NA	0.049	NA
RD-88	SMRD-088-GW090210	U-238	Filtered	11.6	0.02	0.51	0.005
RD-88	SMRD-088-GW090210	U-238	Suspended	0.399	0.006	0.034	0.005
RD-88	SMRD-088-GW090210	U-238	Total	12	NA	0.52	NA
RD-90	SMRD-090-GW090210	Ac-227	Filtered	-7.8 L U	11	3.4	5.4
RD-90	SMRD-090-GW090210	Ac-227	Suspended	-2.9 L U	4.7	1.4	2.3
RD-90	SMRD-090-GW090210	Ac-227	Total	-10.7 L	NA	3.7	NA
RD-90	SMRD-090-GW090210	Ac-228	Filtered	13 B	3.8	2.2	1.7
RD-90	SMRD-090-GW090210	Ac-228	Suspended	0.14 U	3.3	0.87	1.6
RD-90	SMRD-090-GW090210	Ac-228	Total	13.1 B	NA	2.4	NA
RD-90	SMRD-090-GW090210	Ag-108	Filtered	0 U R	0.14	0.039	0.065
RD-90	SMRD-090-GW090210	Ag-108	Suspended	-0.023 U R	0.055	0.017	0.026
RD-90	SMRD-090-GW090210	Ag-108	Total	-0.023 R	NA	0.043	NA
RD-90	SMRD-090-GW090210	Ag-108m	Filtered	0 U R	1.5	0.42	0.7
RD-90	SMRD-090-GW090210	Ag-108m	Suspended	-0.24 U R	0.59	0.18	0.28
RD-90	SMRD-090-GW090210	Ag-108m	Total	-0.24 R	NA	0.46	NA
RD-90	SMRD-090-GW090210	Ba-133	Filtered	3 U R	14	4	6.5
RD-90	SMRD-090-GW090210	Ba-133	Suspended	-1 U R	6.3	1.9	3.1
RD-90	SMRD-090-GW090210	Ba-133	Total	2 R	NA	4.4	NA
RD-90	SMRD-090-GW090210	Ba-137m	Filtered	0.48 U	1.4	0.42	0.66
RD-90	SMRD-090-GW090210	Ba-137m	Suspended	0.12 U	0.65	0.19	0.31
RD-90	SMRD-090-GW090210	Ba-137m	Total	0.6	NA	0.46	NA
RD-90	SMRD-090-GW090210	Bi-212	Filtered	0.8 U	14	4	6.6
RD-90	SMRD-090-GW090210	Bi-212	Suspended	0.05 U	7	2	3.3
RD-90	SMRD-090-GW090210	Bi-212	Total	0.8	NA	4.5	NA
RD-90	SMRD-090-GW090210	Bi-214	Filtered	2.7	3.8	1.5	1.8
RD-90	SMRD-090-GW090210	Bi-214	Suspended	-0.72 U	1.9	0.94	0.91
RD-90	SMRD-090-GW090210	Bi-214	Total	2	NA	1.7	NA
RD-90	SMRD-090-GW090210	Cd-113m	Filtered	2600 U	17000	4900	8000

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-090-GW090210	Cd-113m	Suspended	1000 U	7300	2200	3500
RD-90	SMRD-090-GW090210	Cd-113m	Total	3600	NA	5400	NA
RD-90	SMRD-090-GW090210	Cf-249	Filtered	2.2 U R	6	1.8	2.8
RD-90	SMRD-090-GW090210	Cf-249	Suspended	0.14 U B	3	0.9	1.5
RD-90	SMRD-090-GW090210	Cf-249	Total	2.4 B R	NA	2	NA
RD-90	SMRD-090-GW090210	Co-60	Filtered	-0.004 U	1.4	0.37	0.62
RD-90	SMRD-090-GW090210	Co-60	Suspended	0.35 U	0.78	0.24	0.37
RD-90	SMRD-090-GW090210	Co-60	Total	0.35	NA	0.44	NA
RD-90	SMRD-090-GW090210	Cs-134	Filtered	0.01 U	1.5	0.44	0.72
RD-90	SMRD-090-GW090210	Cs-134	Suspended	0.07 U	0.87	0.26	0.42
RD-90	SMRD-090-GW090210	Cs-134	Total	0.08	NA	0.51	NA
RD-90	SMRD-090-GW090210	Cs-137	Filtered	0.5 U	1.5	0.44	0.69
RD-90	SMRD-090-GW090210	Cs-137	Suspended	0.13 U	0.69	0.2	0.33
RD-90	SMRD-090-GW090210	Cs-137	Total	0.63	NA	0.49	NA
RD-90	SMRD-090-GW090210	Eu-152	Filtered	1 U	4	1.2	1.9
RD-90	SMRD-090-GW090210	Eu-152	Suspended	-0.03 U	1.5	0.43	0.71
RD-90	SMRD-090-GW090210	Eu-152	Total	1	NA	1.3	NA
RD-90	SMRD-090-GW090210	Eu-154	Filtered	1.1 U	13	3.6	5.8
RD-90	SMRD-090-GW090210	Eu-154	Suspended	0.8 U	6.3	1.8	3
RD-90	SMRD-090-GW090210	Eu-154	Total	1.9	NA	4	NA
RD-90	SMRD-090-GW090210	Eu-155	Filtered	0.7 U	3.4	1	1.6
RD-90	SMRD-090-GW090210	Eu-155	Suspended	0.36 U	1.2	0.36	0.58
RD-90	SMRD-090-GW090210	Eu-155	Total	1.1	NA	1.1	NA
RD-90	SMRD-090-GW090210	gross_alpha	Filtered	12.4	0.46	0.84	0.24
RD-90	SMRD-090-GW090210	gross_alpha	Suspended	11.1	1.2	1.1	0.6
RD-90	SMRD-090-GW090210	gross_alpha	Total	23.5	NA	1.4	NA
RD-90	SMRD-090-GW090210	gross_beta	Filtered	16.5	1.3	1.1	0.8
RD-90	SMRD-090-GW090210	gross_beta	Suspended	11.9	1	0.77	0.54
RD-90	SMRD-090-GW090210	gross_beta	Total	28.4	NA	1.3	NA
RD-90	SMRD-090-GW090210	H-3	Filtered	41000	100	1800	70
RD-90	SMRD-090-GW090210	H-3	Suspended	12.2 R	20	6.3	9
RD-90	SMRD-090-GW090210	H-3	Total	41000 R	NA	1800	NA
RD-90	SMRD-090-GW090210	Ho-166m	Filtered	0 U	3.5	1	1.7
RD-90	SMRD-090-GW090210	Ho-166m	Suspended	0.18 U	0.86	0.25	0.41
RD-90	SMRD-090-GW090210	Ho-166m	Total	0.2	NA	1	NA
RD-90	SMRD-090-GW090210	K-40	Filtered	-6.8 U	23	9.2	11
RD-90	SMRD-090-GW090210	K-40	Suspended	4.7 U	12	3.1	5.7
RD-90	SMRD-090-GW090210	K-40	Total	-2.1	NA	9.7	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-090-GW090210	Na-22	Filtered	0.4 U	1.9	0.53	0.84
RD-90	SMRD-090-GW090210	Na-22	Suspended	0.14 U	0.82	0.24	0.38
RD-90	SMRD-090-GW090210	Na-22	Total	0.54	NA	0.58	NA
RD-90	SMRD-090-GW090210	Nb-94	Filtered	0 U	1.7	0.48	0.79
RD-90	SMRD-090-GW090210	Nb-94	Suspended	0.08 U	0.68	0.2	0.33
RD-90	SMRD-090-GW090210	Nb-94	Total	0.08	NA	0.52	NA
RD-90	SMRD-090-GW090210	Np-236	Filtered	-0.24 U	2.9	0.84	1.4
RD-90	SMRD-090-GW090210	Np-236	Suspended	0.31 U	1.2	0.36	0.58
RD-90	SMRD-090-GW090210	Np-236	Total	0.07	NA	0.92	NA
RD-90	SMRD-090-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-90	SMRD-090-GW090210	Np-239	Filtered	1.2 U	8.4	2.5	4
RD-90	SMRD-090-GW090210	Np-239	Suspended	1 U	3.7	1.1	1.8
RD-90	SMRD-090-GW090210	Np-239	Total	2.2	NA	2.7	NA
RD-90	SMRD-090-GW090210	Pa-231	Filtered	29	51	16	24
RD-90	SMRD-090-GW090210	Pa-231	Suspended	2.6 U	26	7.8	13
RD-90	SMRD-090-GW090210	Pa-231	Total	32	NA	17	NA
RD-90	SMRD-090-GW090210	Pb-212	Filtered	1.31 U	2.9	0.95	1.4
RD-90	SMRD-090-GW090210	Pb-212	Suspended	0.67	1.4	0.49	0.67
RD-90	SMRD-090-GW090210	Pb-212	Total	2	NA	1.1	NA
RD-90	SMRD-090-GW090210	Pb-214	Filtered	2.3	3.1	1	1.5
RD-90	SMRD-090-GW090210	Pb-214	Suspended	-0.54 U	1.4	0.61	0.69
RD-90	SMRD-090-GW090210	Pb-214	Total	1.8	NA	1.2	NA
RD-90	SMRD-090-GW090210	Sb-125	Filtered	-1.5 U	14	4.2	6.9
RD-90	SMRD-090-GW090210	Sb-125	Suspended	1.6 U	6.3	1.9	3.1
RD-90	SMRD-090-GW090210	Sb-125	Total	0.08	NA	4.6	NA
RD-90	SMRD-090-GW090210	Sn-126	Filtered	0.88	1.4	0.45	0.66
RD-90	SMRD-090-GW090210	Sn-126	Suspended	0 U	0.9	0.26	0.44
RD-90	SMRD-090-GW090210	Sn-126	Total	0.88	NA	0.52	NA
RD-90	SMRD-090-GW090210	Sr-90	Filtered	-0.023 U	0.13	0.036	0.073
RD-90	SMRD-090-GW090210	Sr-90	Suspended	0.006 U	0.093	0.027	0.052
RD-90	SMRD-090-GW090210	Sr-90	Total	-0.017	NA	0.045	NA
RD-90	SMRD-090-GW090210	Te-125m	Filtered	-0.34 U	3.3	0.98	1.6
RD-90	SMRD-090-GW090210	Te-125m	Suspended	0.36 U	1.5	0.44	0.71
RD-90	SMRD-090-GW090210	Te-125m	Total	0.02	NA	1.1	NA
RD-90	SMRD-090-GW090210	Th-231	Filtered	0.214	0.007	0.025	0.006
RD-90	SMRD-090-GW090210	Th-231	Suspended	0.0053 U	0.0072	0.0038	0.0062
RD-90	SMRD-090-GW090210	Th-231	Total	0.22	NA	0.025	NA
RD-90	SMRD-090-GW090210	Th-234	Filtered	9.2 U	24	7.9	12

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-090-GW090210	Th-234	Suspended	3.5 U	8.7	2.7	4.2
RD-90	SMRD-090-GW090210	Th-234	Total	12.6	NA	8.4	NA
RD-90	SMRD-090-GW090210	Tl-208	Filtered	-0.05 U	2	0.54	0.93
RD-90	SMRD-090-GW090210	Tl-208	Suspended	0.42	0.8	0.25	0.38
RD-90	SMRD-090-GW090210	Tl-208	Total	0.38	NA	0.6	NA
RD-90	SMRD-090-GW090210	Tm-171	Filtered	20 U	380	110	190
RD-90	SMRD-090-GW090210	Tm-171	Suspended	0.1 U	130	38	63
RD-90	SMRD-090-GW090210	Tm-171	Total	20	NA	120	NA
RD-90	SMRD-090-GW090210	U-233/234	Filtered	5.17	0.02	0.24	0.005
RD-90	SMRD-090-GW090210	U-233/234	Suspended	0.14	0.02	0.019	0.007
RD-90	SMRD-090-GW090210	U-233/234	Total	5.31	NA	0.24	NA
RD-90	SMRD-090-GW090210	U-235/236	Filtered	0.214	0.007	0.025	0.006
RD-90	SMRD-090-GW090210	U-235/236	Suspended	0.0053 U	0.0072	0.0038	0.0062
RD-90	SMRD-090-GW090210	U-235/236	Total	0.22	NA	0.025	NA
RD-90	SMRD-090-GW090210	U-238	Filtered	4.6	0.02	0.22	0.007
RD-90	SMRD-090-GW090210	U-238	Suspended	0.132	0.006	0.018	0.005
RD-90	SMRD-090-GW090210	U-238	Total	4.73	NA	0.22	NA
RD-91	SMRD-091-GW082510	Ac-227	Filtered	-9.6 L U	11	3.3	5.2
RD-91	SMRD-091-GW082510	Ac-227	Suspended	-4 L U	4.8	1.5	2.3
RD-91	SMRD-091-GW082510	Ac-227	Total	-13.6 R	NA	3.6	NA
RD-91	SMRD-091-GW082510	Ac-228	Filtered	4.6	3.9	1.3	1.9
RD-91	SMRD-091-GW082510	Ac-228	Suspended	-0.5 U	2.6	1.1	1.2
RD-91	SMRD-091-GW082510	Ac-228	Total	4.1	NA	1.7	NA
RD-91	SMRD-091-GW082510	Ag-108	Filtered	0.003 U R	0.084	0.024	0.04
RD-91	SMRD-091-GW082510	Ag-108	Suspended	-0.005 U R	0.049	0.014	0.024
RD-91	SMRD-091-GW082510	Ag-108	Total	-0.002 R	NA	0.028	NA
RD-91	SMRD-091-GW082510	Ag-108m	Filtered	0.03 U R	0.9	0.26	0.43
RD-91	SMRD-091-GW082510	Ag-108m	Suspended	-0.05 U R	0.53	0.16	0.25
RD-91	SMRD-091-GW082510	Ag-108m	Total	-0.02 R	NA	0.31	NA
RD-91	SMRD-091-GW082510	Ba-133	Filtered	-2.1 U R	13	3.9	6.3
RD-91	SMRD-091-GW082510	Ba-133	Suspended	-0.5 U R	6	1.8	2.9
RD-91	SMRD-091-GW082510	Ba-133	Total	-2.6 R	NA	4.3	NA
RD-91	SMRD-091-GW082510	Ba-137m	Filtered	-0.02 U	1.1	0.31	0.52
RD-91	SMRD-091-GW082510	Ba-137m	Suspended	0.25 U	0.59	0.18	0.28
RD-91	SMRD-091-GW082510	Ba-137m	Total	0.23	NA	0.36	NA
RD-91	SMRD-091-GW082510	Bi-212	Filtered	-0.2 U	11	3.2	5.3
RD-91	SMRD-091-GW082510	Bi-212	Suspended	5.1	5.3	1.7	2.5
RD-91	SMRD-091-GW082510	Bi-212	Total	5	NA	3.6	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-091-GW082510	Bi-214	Filtered	3.64	2.9	0.98	1.4
RD-91	SMRD-091-GW082510	Bi-214	Suspended	-0.01 U	1.5	0.46	0.73
RD-91	SMRD-091-GW082510	Bi-214	Total	3.6	NA	1.1	NA
RD-91	SMRD-091-GW082510	Cd-113m	Filtered	600 U	14000	4000	6600
RD-91	SMRD-091-GW082510	Cd-113m	Suspended	-1400 U	7700	2300	3700
RD-91	SMRD-091-GW082510	Cd-113m	Total	-800	NA	4600	NA
RD-91	SMRD-091-GW082510	Cf-249	Filtered	-1.3 U R	6.1	1.8	2.9
RD-91	SMRD-091-GW082510	Cf-249	Suspended	0.62 U R	3	0.89	1.4
RD-91	SMRD-091-GW082510	Cf-249	Total	-0.7 R	NA	2	NA
RD-91	SMRD-091-GW082510	Co-60	Filtered	-0.24 U	1.4	0.4	0.64
RD-91	SMRD-091-GW082510	Co-60	Suspended	0.34	0.7	0.21	0.33
RD-91	SMRD-091-GW082510	Co-60	Total	0.1	NA	0.45	NA
RD-91	SMRD-091-GW082510	Cs-134	Filtered	-0.02 U	1.4	0.42	0.7
RD-91	SMRD-091-GW082510	Cs-134	Suspended	0.23 U	0.78	0.23	0.38
RD-91	SMRD-091-GW082510	Cs-134	Total	0.21	NA	0.48	NA
RD-91	SMRD-091-GW082510	Cs-137	Filtered	-0.02 U	1.1	0.33	0.55
RD-91	SMRD-091-GW082510	Cs-137	Suspended	0.26 U	0.63	0.19	0.3
RD-91	SMRD-091-GW082510	Cs-137	Total	0.24	NA	0.38	NA
RD-91	SMRD-091-GW082510	Eu-152	Filtered	0.11 U	3.4	0.99	1.6
RD-91	SMRD-091-GW082510	Eu-152	Suspended	0.38 U	1.7	0.51	0.83
RD-91	SMRD-091-GW082510	Eu-152	Total	0.5	NA	1.1	NA
RD-91	SMRD-091-GW082510	Eu-154	Filtered	-0.2 U	11	3.2	5.3
RD-91	SMRD-091-GW082510	Eu-154	Suspended	1.4 U	5.6	1.7	2.6
RD-91	SMRD-091-GW082510	Eu-154	Total	1.2	NA	3.6	NA
RD-91	SMRD-091-GW082510	Eu-155	Filtered	0.3 U	3.5	1	1.7
RD-91	SMRD-091-GW082510	Eu-155	Suspended	0.25 U	1.2	0.36	0.59
RD-91	SMRD-091-GW082510	Eu-155	Total	0.6	NA	1.1	NA
RD-91	SMRD-091-GW082510	gross_alpha	Filtered	11	0.4	0.74	0.2
RD-91	SMRD-091-GW082510	gross_alpha	Suspended	5.4	0.64	0.57	0.33
RD-91	SMRD-091-GW082510	gross_alpha	Total	16.4	NA	0.94	NA
RD-91	SMRD-091-GW082510	gross_beta	Filtered	10.8	3	1.4	1.7
RD-91	SMRD-091-GW082510	gross_beta	Suspended	9.4	0.88	0.65	0.49
RD-91	SMRD-091-GW082510	gross_beta	Total	20.2	NA	1.5	NA
RD-91	SMRD-091-GW082510	H-3	Filtered	75	130	39	63
RD-91	SMRD-091-GW082510	H-3	Suspended	1.7 U	15	4.2	6.7
RD-91	SMRD-091-GW082510	H-3	Total	77	NA	40	NA
RD-91	SMRD-091-GW082510	Ho-166m	Filtered	0.15 U	1.9	0.56	0.91
RD-91	SMRD-091-GW082510	Ho-166m	Suspended	-0.14 U	1.1	0.33	0.54

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-091-GW082510	Ho-166m	Total	0.01	NA	0.65	NA
RD-91	SMRD-091-GW082510	K-40	Filtered	7.1 U	23	5.9	11
RD-91	SMRD-091-GW082510	K-40	Suspended	-3.9 U	13	3.7	6.1
RD-91	SMRD-091-GW082510	K-40	Total	3.2	NA	7	NA
RD-91	SMRD-091-GW082510	Na-22	Filtered	0.01 U	1.4	0.41	0.67
RD-91	SMRD-091-GW082510	Na-22	Suspended	0.08 U	0.83	0.24	0.39
RD-91	SMRD-091-GW082510	Na-22	Total	0.09	NA	0.47	NA
RD-91	SMRD-091-GW082510	Nb-94	Filtered	-0.2 U	1.1	0.33	0.54
RD-91	SMRD-091-GW082510	Nb-94	Suspended	0 U	0.72	0.21	0.35
RD-91	SMRD-091-GW082510	Nb-94	Total	-0.2	NA	0.39	NA
RD-91	SMRD-091-GW082510	Np-236	Filtered	0.08 U	2.8	0.84	1.4
RD-91	SMRD-091-GW082510	Np-236	Suspended	0 U	1.2	0.35	0.58
RD-91	SMRD-091-GW082510	Np-236	Total	0.08	NA	0.91	NA
RD-91	SMRD-091-GW082510	Np-239	Filtered	-0.3 U	7.6	2.2	3.7
RD-91	SMRD-091-GW082510	Np-239	Suspended	0.08 U	3.6	1.1	1.8
RD-91	SMRD-091-GW082510	Np-239	Total	-0.2	NA	2.5	NA
RD-91	SMRD-091-GW082510	Pa-231	Filtered	4 U	44	13	21
RD-91	SMRD-091-GW082510	Pa-231	Suspended	6 U	27	7.9	13
RD-91	SMRD-091-GW082510	Pa-231	Total	10	NA	15	NA
RD-91	SMRD-091-GW082510	Pb-212	Filtered	1.14 U	2.9	0.98	1.4
RD-91	SMRD-091-GW082510	Pb-212	Suspended	0.91	1.2	0.4	0.6
RD-91	SMRD-091-GW082510	Pb-212	Total	2.1	NA	1.1	NA
RD-91	SMRD-091-GW082510	Pb-214	Filtered	0.74 U	2.7	0.97	1.3
RD-91	SMRD-091-GW082510	Pb-214	Suspended	0.35 U	1.3	0.38	0.61
RD-91	SMRD-091-GW082510	Pb-214	Total	1.1	NA	1	NA
RD-91	SMRD-091-GW082510	Sb-125	Filtered	6.1 U	13	4.1	6.6
RD-91	SMRD-091-GW082510	Sb-125	Suspended	-1.5 U	6.4	1.9	3.1
RD-91	SMRD-091-GW082510	Sb-125	Total	4.6	NA	4.5	NA
RD-91	SMRD-091-GW082510	Sn-126	Filtered	0.08 U	1.2	0.35	0.57
RD-91	SMRD-091-GW082510	Sn-126	Suspended	0.05 U	0.82	0.24	0.39
RD-91	SMRD-091-GW082510	Sn-126	Total	0.13	NA	0.42	NA
RD-91	SMRD-091-GW082510	Sr-90	Filtered	0.041 U	0.26	0.076	0.16
RD-91	SMRD-091-GW082510	Sr-90	Suspended	0.141	0.14	0.048	0.085
RD-91	SMRD-091-GW082510	Sr-90	Total	0.182	NA	0.09	NA
RD-91	SMRD-091-GW082510	Te-125m	Filtered	1.4 U	3.1	0.94	1.5
RD-91	SMRD-091-GW082510	Te-125m	Suspended	-0.34 U	1.5	0.45	0.73
RD-91	SMRD-091-GW082510	Te-125m	Total	1.1	NA	1	NA
RD-91	SMRD-091-GW082510	Th-231	Filtered	0.251	0.036	0.044	0.01

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-091-GW082510	Th-231	Suspended	0.0106	0.033	0.0095	0.0093
RD-91	SMRD-091-GW082510	Th-231	Total	0.261	NA	0.045	NA
RD-91	SMRD-091-GW082510	Th-234	Filtered	3.7 U	23	7.9	11
RD-91	SMRD-091-GW082510	Th-234	Suspended	4 U	8.8	3	4.3
RD-91	SMRD-091-GW082510	Th-234	Total	7.7	NA	8.4	NA
RD-91	SMRD-091-GW082510	Tl-208	Filtered	0.35 U	1.7	0.66	0.84
RD-91	SMRD-091-GW082510	Tl-208	Suspended	0.3 U	0.75	0.23	0.36
RD-91	SMRD-091-GW082510	Tl-208	Total	0.65	NA	0.7	NA
RD-91	SMRD-091-GW082510	Tm-171	Filtered	90 U	430	130	210
RD-91	SMRD-091-GW082510	Tm-171	Suspended	-23 U	130	39	64
RD-91	SMRD-091-GW082510	Tm-171	Total	70	NA	130	NA
RD-91	SMRD-091-GW082510	U-233/234	Filtered	6.35	0.04	0.33	0.02
RD-91	SMRD-091-GW082510	U-233/234	Suspended	0.12	0.044	0.028	0.018
RD-91	SMRD-091-GW082510	U-233/234	Total	6.47	NA	0.33	NA
RD-91	SMRD-091-GW082510	U-235/236	Filtered	0.251	0.036	0.044	0.01
RD-91	SMRD-091-GW082510	U-235/236	Suspended	0.0106	0.033	0.0095	0.0093
RD-91	SMRD-091-GW082510	U-235/236	Total	0.261	NA	0.045	NA
RD-91	SMRD-091-GW082510	U-238	Filtered	5.32	0.03	0.28	0.01
RD-91	SMRD-091-GW082510	U-238	Suspended	0.096	0.035	0.025	0.013
RD-91	SMRD-091-GW082510	U-238	Total	5.41	NA	0.28	NA
RD-92	SMRD-092-GW082410	Ac-227	Filtered	-2.5 U	9	2.7	4.3
RD-92	SMRD-092-GW082410	Ac-227	Suspended	-0.9 U	3.8	1.1	1.9
RD-92	SMRD-092-GW082410	Ac-227	Total	-3.4	NA	2.9	NA
RD-92	SMRD-092-GW082410	Ac-228	Filtered	3.3	4.1	1.3	1.9
RD-92	SMRD-092-GW082410	Ac-228	Suspended	-0.9 U	2.9	1.1	1.4
RD-92	SMRD-092-GW082410	Ac-228	Total	2.4	NA	1.7	NA
RD-92	SMRD-092-GW082410	Ag-108	Filtered	0.01 U R	0.097	0.028	0.046
RD-92	SMRD-092-GW082410	Ag-108	Suspended	-0.012 U R	0.052	0.015	0.025
RD-92	SMRD-092-GW082410	Ag-108	Total	-0.003 R	NA	0.032	NA
RD-92	SMRD-092-GW082410	Ag-108m	Filtered	0.1 U R	1	0.3	0.49
RD-92	SMRD-092-GW082410	Ag-108m	Suspended	-0.13 U R	0.56	0.17	0.27
RD-92	SMRD-092-GW082410	Ag-108m	Total	-0.03 R	NA	0.34	NA
RD-92	SMRD-092-GW082410	Ba-133	Filtered	-0.007 U R	12	3.6	5.9
RD-92	SMRD-092-GW082410	Ba-133	Suspended	0 U R	6.4	1.9	3.1
RD-92	SMRD-092-GW082410	Ba-133	Total	-0.007 R	NA	4	NA
RD-92	SMRD-092-GW082410	Ba-137m	Filtered	-0.04 U	1.1	0.32	0.52
RD-92	SMRD-092-GW082410	Ba-137m	Suspended	-0.19 U	0.67	0.2	0.32
RD-92	SMRD-092-GW082410	Ba-137m	Total	-0.23	NA	0.37	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-092-GW082410	Bi-212	Filtered	0.1 U	12	3.4	5.6
RD-92	SMRD-092-GW082410	Bi-212	Suspended	3.2	5.6	1.7	2.7
RD-92	SMRD-092-GW082410	Bi-212	Total	3.3	NA	3.8	NA
RD-92	SMRD-092-GW082410	Bi-214	Filtered	0.02 U	2.9	0.79	1.4
RD-92	SMRD-092-GW082410	Bi-214	Suspended	-0.48 U	1.7	0.76	0.85
RD-92	SMRD-092-GW082410	Bi-214	Total	-0.5	NA	1.1	NA
RD-92	SMRD-092-GW082410	Cd-113m	Filtered	-3400 U	14000	4100	6600
RD-92	SMRD-092-GW082410	Cd-113m	Suspended	-1100 U	7300	2200	3600
RD-92	SMRD-092-GW082410	Cd-113m	Total	-4400	NA	4600	NA
RD-92	SMRD-092-GW082410	Cf-249	Filtered	-0.05 U R	6.3	1.8	3
RD-92	SMRD-092-GW082410	Cf-249	Suspended	-0.08 U R	2.8	0.82	1.3
RD-92	SMRD-092-GW082410	Cf-249	Total	-0.1 R	NA	2	NA
RD-92	SMRD-092-GW082410	Co-60	Filtered	-0.21 U	1.6	0.47	0.75
RD-92	SMRD-092-GW082410	Co-60	Suspended	0.25 U	0.73	0.22	0.34
RD-92	SMRD-092-GW082410	Co-60	Total	0.04	NA	0.51	NA
RD-92	SMRD-092-GW082410	Cs-134	Filtered	-0.36 U	1.5	0.46	0.73
RD-92	SMRD-092-GW082410	Cs-134	Suspended	-0.23 U	0.83	0.25	0.4
RD-92	SMRD-092-GW082410	Cs-134	Total	-0.59	NA	0.52	NA
RD-92	SMRD-092-GW082410	Cs-137	Filtered	-0.05 U	1.2	0.33	0.55
RD-92	SMRD-092-GW082410	Cs-137	Suspended	-0.2 U	0.7	0.21	0.34
RD-92	SMRD-092-GW082410	Cs-137	Total	-0.24	NA	0.39	NA
RD-92	SMRD-092-GW082410	Eu-152	Filtered	-0.3 U	3.8	1.1	1.8
RD-92	SMRD-092-GW082410	Eu-152	Suspended	0.32 U	1.7	0.5	0.82
RD-92	SMRD-092-GW082410	Eu-152	Total	0.01	NA	1.2	NA
RD-92	SMRD-092-GW082410	Eu-154	Filtered	1.2 U	11	3.1	5.1
RD-92	SMRD-092-GW082410	Eu-154	Suspended	0.03 U	4.9	1.4	2.3
RD-92	SMRD-092-GW082410	Eu-154	Total	1.2	NA	3.4	NA
RD-92	SMRD-092-GW082410	Eu-155	Filtered	-0.04 U	2.3	0.67	1.1
RD-92	SMRD-092-GW082410	Eu-155	Suspended	-0.17 U	1.2	0.35	0.57
RD-92	SMRD-092-GW082410	Eu-155	Total	-0.21	NA	0.75	NA
RD-92	SMRD-092-GW082410	gross_alpha	Filtered	1.68	0.45	0.27	0.23
RD-92	SMRD-092-GW082410	gross_alpha	Suspended	0.12 U	0.55	0.15	0.29
RD-92	SMRD-092-GW082410	gross_alpha	Total	1.8	NA	0.31	NA
RD-92	SMRD-092-GW082410	gross_beta	Filtered	2.05	1.3	0.47	0.78
RD-92	SMRD-092-GW082410	gross_beta	Suspended	0.12 U	0.73	0.21	0.43
RD-92	SMRD-092-GW082410	gross_beta	Total	2.16	NA	0.52	NA
RD-92	SMRD-092-GW082410	H-3	Filtered	46 U	130	38	62
RD-92	SMRD-092-GW082410	H-3	Suspended	7.3	14	4.4	6.1

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-092-GW082410	H-3	Total	53	NA	38	NA
RD-92	SMRD-092-GW082410	Ho-166m	Filtered	0 U	2	0.56	0.92
RD-92	SMRD-092-GW082410	Ho-166m	Suspended	0.15 U	1.1	0.33	0.54
RD-92	SMRD-092-GW082410	Ho-166m	Total	0.15	NA	0.65	NA
RD-92	SMRD-092-GW082410	K-40	Filtered	-17 U	22	55	10
RD-92	SMRD-092-GW082410	K-40	Suspended	4.9 U	12	3	5.6
RD-92	SMRD-092-GW082410	K-40	Total	-12	NA	55	NA
RD-92	SMRD-092-GW082410	Na-22	Filtered	0.41 U	1.5	0.44	0.68
RD-92	SMRD-092-GW082410	Na-22	Suspended	-0.15 U	0.84	0.25	0.4
RD-92	SMRD-092-GW082410	Na-22	Total	0.26	NA	0.5	NA
RD-92	SMRD-092-GW082410	Nb-94	Filtered	-0.19 U	1.2	0.36	0.58
RD-92	SMRD-092-GW082410	Nb-94	Suspended	-0.09 U	0.68	0.2	0.33
RD-92	SMRD-092-GW082410	Nb-94	Total	-0.28	NA	0.41	NA
RD-92	SMRD-092-GW082410	Np-236	Filtered	0.69 U	2.5	0.75	1.2
RD-92	SMRD-092-GW082410	Np-236	Suspended	0.14 U	1.1	0.32	0.52
RD-92	SMRD-092-GW082410	Np-236	Total	0.83	NA	0.81	NA
RD-92	SMRD-092-GW082410	Np-239	Filtered	0.2 U	7.6	2.2	3.7
RD-92	SMRD-092-GW082410	Np-239	Suspended	-0.3 U	3.7	1.1	1.8
RD-92	SMRD-092-GW082410	Np-239	Total	-0.2	NA	2.5	NA
RD-92	SMRD-092-GW082410	Pa-231	Filtered	15 U	54	16	26
RD-92	SMRD-092-GW082410	Pa-231	Suspended	3.2 U	25	7.5	12
RD-92	SMRD-092-GW082410	Pa-231	Total	19	NA	18	NA
RD-92	SMRD-092-GW082410	Pb-212	Filtered	0.67 U	2.2	0.76	1.1
RD-92	SMRD-092-GW082410	Pb-212	Suspended	0.35 U	1.2	0.37	0.58
RD-92	SMRD-092-GW082410	Pb-212	Total	1.02	NA	0.85	NA
RD-92	SMRD-092-GW082410	Pb-214	Filtered	-0.5 U	3	1.3	1.4
RD-92	SMRD-092-GW082410	Pb-214	Suspended	0.04 U	1.5	0.51	0.72
RD-92	SMRD-092-GW082410	Pb-214	Total	-0.5	NA	1.4	NA
RD-92	SMRD-092-GW082410	Sb-125	Filtered	3.2 U	11	3.4	5.5
RD-92	SMRD-092-GW082410	Sb-125	Suspended	-1.1 U	6.1	1.8	2.9
RD-92	SMRD-092-GW082410	Sb-125	Total	2.1	NA	3.9	NA
RD-92	SMRD-092-GW082410	Sn-126	Filtered	0.51 U	1.3	0.4	0.62
RD-92	SMRD-092-GW082410	Sn-126	Suspended	-0.09 U	0.81	0.24	0.39
RD-92	SMRD-092-GW082410	Sn-126	Total	0.42	NA	0.46	NA
RD-92	SMRD-092-GW082410	Sr-90	Filtered	0.04 U	0.25	0.073	0.15
RD-92	SMRD-092-GW082410	Sr-90	Suspended	0.091 U	0.16	0.05	0.096
RD-92	SMRD-092-GW082410	Sr-90	Total	0.131	NA	0.088	NA
RD-92	SMRD-092-GW082410	Te-125m	Filtered	0.74 U	2.6	0.79	1.3

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-092-GW082410	Te-125m	Suspended	-0.25 U	1.4	0.42	0.68
RD-92	SMRD-092-GW082410	Te-125m	Total	0.49	NA	0.89	NA
RD-92	SMRD-092-GW082410	Th-231	Filtered	0.009 U	0.043	0.011	0.014
RD-92	SMRD-092-GW082410	Th-231	Suspended	0.0038 U	0.031	0.0065	0.0087
RD-92	SMRD-092-GW082410	Th-231	Total	0.013	NA	0.013	NA
RD-92	SMRD-092-GW082410	Th-234	Filtered	-5.2 U	23	8.8	11
RD-92	SMRD-092-GW082410	Th-234	Suspended	-0.4 U	8.3	2.6	4.1
RD-92	SMRD-092-GW082410	Th-234	Total	-5.6	NA	9.2	NA
RD-92	SMRD-092-GW082410	Tl-208	Filtered	-0.15 U	1.7	0.58	0.8
RD-92	SMRD-092-GW082410	Tl-208	Suspended	0.41	0.84	0.31	0.4
RD-92	SMRD-092-GW082410	Tl-208	Total	0.25	NA	0.66	NA
RD-92	SMRD-092-GW082410	Tm-171	Filtered	70 U	350	100	170
RD-92	SMRD-092-GW082410	Tm-171	Suspended	6 U	120	36	59
RD-92	SMRD-092-GW082410	Tm-171	Total	70	NA	110	NA
RD-92	SMRD-092-GW082410	U-233/234	Filtered	1.01	0.039	0.088	0.014
RD-92	SMRD-092-GW082410	U-233/234	Suspended	0.015 U	0.039	0.014	0.016
RD-92	SMRD-092-GW082410	U-233/234	Total	1.03	NA	0.089	NA
RD-92	SMRD-092-GW082410	U-235/236	Filtered	0.009 U	0.043	0.011	0.014
RD-92	SMRD-092-GW082410	U-235/236	Suspended	0.0038 U	0.031	0.0065	0.0087
RD-92	SMRD-092-GW082410	U-235/236	Total	0.013	NA	0.013	NA
RD-92	SMRD-092-GW082410	U-238	Filtered	0.742	0.015	0.072	0.008
RD-92	SMRD-092-GW082410	U-238	Suspended	0.0103	0.025	0.01	0.007
RD-92	SMRD-092-GW082410	U-238	Total	0.752	NA	0.073	NA
RD-93	SMRD-093-GW090210	Ac-227	Filtered	0.6 U	9	2.7	4.4
RD-93	SMRD-093-GW090210	Ac-227	Suspended	-1.8 U	4.5	1.4	2.2
RD-93	SMRD-093-GW090210	Ac-227	Total	-1.2	NA	3	NA
RD-93	SMRD-093-GW090210	Ac-228	Filtered	2.2 B	4.9	1.5	2.2
RD-93	SMRD-093-GW090210	Ac-228	Suspended	2.18	2.3	0.74	1.1
RD-93	SMRD-093-GW090210	Ac-228	Total	4.4 B	NA	1.6	NA
RD-93	SMRD-093-GW090210	Ag-108	Filtered	0.045 U R	0.1	0.032	0.049
RD-93	SMRD-093-GW090210	Ag-108	Suspended	0.021 U R	0.047	0.014	0.022
RD-93	SMRD-093-GW090210	Ag-108	Total	0.066 R	NA	0.035	NA
RD-93	SMRD-093-GW090210	Ag-108m	Filtered	0.48 U R	1.1	0.34	0.53
RD-93	SMRD-093-GW090210	Ag-108m	Suspended	0.23 U R	0.51	0.15	0.24
RD-93	SMRD-093-GW090210	Ag-108m	Total	0.71 R	NA	0.37	NA
RD-93	SMRD-093-GW090210	Ba-133	Filtered	-2.6 U R	13	4	6.4
RD-93	SMRD-093-GW090210	Ba-133	Suspended	0.7 U R	6.3	1.9	3
RD-93	SMRD-093-GW090210	Ba-133	Total	-2 R	NA	4.4	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-093-GW090210	Ba-137m	Filtered	0.27 U	1.2	0.36	0.57
RD-93	SMRD-093-GW090210	Ba-137m	Suspended	-0.25 U	0.77	0.52	0.36
RD-93	SMRD-093-GW090210	Ba-137m	Total	0.01	NA	0.63	NA
RD-93	SMRD-093-GW090210	Bi-212	Filtered	4.9 U	12	3.5	5.4
RD-93	SMRD-093-GW090210	Bi-212	Suspended	-0.06 U	4.9	1.4	2.3
RD-93	SMRD-093-GW090210	Bi-212	Total	4.8	NA	3.8	NA
RD-93	SMRD-093-GW090210	Bi-214	Filtered	1.7	3	1.2	1.4
RD-93	SMRD-093-GW090210	Bi-214	Suspended	0.13 U	1.7	0.45	0.8
RD-93	SMRD-093-GW090210	Bi-214	Total	1.9	NA	1.2	NA
RD-93	SMRD-093-GW090210	Cd-113m	Filtered	-2100 U	17000	5200	8400
RD-93	SMRD-093-GW090210	Cd-113m	Suspended	1000 U	6400	1900	3000
RD-93	SMRD-093-GW090210	Cd-113m	Total	-1100	NA	5500	NA
RD-93	SMRD-093-GW090210	Cf-249	Filtered	3.2 R	5.9	1.8	2.8
RD-93	SMRD-093-GW090210	Cf-249	Suspended	1.79 B R	2.6	0.8	1.2
RD-93	SMRD-093-GW090210	Cf-249	Total	5 B R	NA	2	NA
RD-93	SMRD-093-GW090210	Co-60	Filtered	0.46 U	1.7	0.5	0.77
RD-93	SMRD-093-GW090210	Co-60	Suspended	-0.02 U	0.65	0.18	0.29
RD-93	SMRD-093-GW090210	Co-60	Total	0.44	NA	0.53	NA
RD-93	SMRD-093-GW090210	Cs-134	Filtered	-0.03 U	1.8	0.52	0.86
RD-93	SMRD-093-GW090210	Cs-134	Suspended	-0.46 U	0.99	0.3	0.48
RD-93	SMRD-093-GW090210	Cs-134	Total	-0.49	NA	0.6	NA
RD-93	SMRD-093-GW090210	Cs-137	Filtered	0.28 U	1.3	0.38	0.61
RD-93	SMRD-093-GW090210	Cs-137	Suspended	-0.27 U	0.81	0.55	0.38
RD-93	SMRD-093-GW090210	Cs-137	Total	0.02	NA	0.67	NA
RD-93	SMRD-093-GW090210	Eu-152	Filtered	0.08 U	2.9	0.84	1.4
RD-93	SMRD-093-GW090210	Eu-152	Suspended	0.39 U	1.8	0.52	0.84
RD-93	SMRD-093-GW090210	Eu-152	Total	0.47	NA	0.99	NA
RD-93	SMRD-093-GW090210	Eu-154	Filtered	1 U	9.4	2.6	4.2
RD-93	SMRD-093-GW090210	Eu-154	Suspended	1.5 U	6	1.8	2.8
RD-93	SMRD-093-GW090210	Eu-154	Total	2.4	NA	3.2	NA
RD-93	SMRD-093-GW090210	Eu-155	Filtered	0.6 U	3.3	0.98	1.6
RD-93	SMRD-093-GW090210	Eu-155	Suspended	0.32 U	1.3	0.39	0.64
RD-93	SMRD-093-GW090210	Eu-155	Total	0.9	NA	1.1	NA
RD-93	SMRD-093-GW090210	gross_alpha	Filtered	19.5	0.4	1.1	0.2
RD-93	SMRD-093-GW090210	gross_alpha	Suspended	6.8	1.8	1	0.9
RD-93	SMRD-093-GW090210	gross_alpha	Total	26.3	NA	1.5	NA
RD-93	SMRD-093-GW090210	gross_beta	Filtered	13.9	1.6	1	0.9
RD-93	SMRD-093-GW090210	gross_beta	Suspended	29.8	1	1.4	0.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-093-GW090210	gross_beta	Total	43.7	NA	1.8	NA
RD-93	SMRD-093-GW090210	H-3	Filtered	8200	150	370	70
RD-93	SMRD-093-GW090210	H-3	Suspended	8.4 R	14	4.4	6
RD-93	SMRD-093-GW090210	H-3	Total	8210 R	NA	370	NA
RD-93	SMRD-093-GW090210	Ho-166m	Filtered	0.005 U	2.3	0.66	1.1
RD-93	SMRD-093-GW090210	Ho-166m	Suspended	0.15 U	1.1	0.31	0.5
RD-93	SMRD-093-GW090210	Ho-166m	Total	0.16	NA	0.73	NA
RD-93	SMRD-093-GW090210	K-40	Filtered	8.7	16	5	7.5
RD-93	SMRD-093-GW090210	K-40	Suspended	14.7	9.4	3.4	4.4
RD-93	SMRD-093-GW090210	K-40	Total	23.4	NA	6.1	NA
RD-93	SMRD-093-GW090210	Na-22	Filtered	-0.35 U	1.9	0.55	0.87
RD-93	SMRD-093-GW090210	Na-22	Suspended	-0.02 U	0.87	0.24	0.4
RD-93	SMRD-093-GW090210	Na-22	Total	-0.36	NA	0.6	NA
RD-93	SMRD-093-GW090210	Nb-94	Filtered	-0.09 U	1.3	0.38	0.63
RD-93	SMRD-093-GW090210	Nb-94	Suspended	0.18 U	0.6	0.18	0.28
RD-93	SMRD-093-GW090210	Nb-94	Total	0.09	NA	0.42	NA
RD-93	SMRD-093-GW090210	Np-236	Filtered	1.23 SK	2.4	0.73	1.2
RD-93	SMRD-093-GW090210	Np-236	Suspended	-0.05 U	1.3	0.37	0.61
RD-93	SMRD-093-GW090210	Np-236	Total	1.18	NA	0.82	NA
RD-93	SMRD-093-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-93	SMRD-093-GW090210	Np-239	Filtered	0.7 U	6.8	2	3.2
RD-93	SMRD-093-GW090210	Np-239	Suspended	0 U	4.1	1.2	2
RD-93	SMRD-093-GW090210	Np-239	Total	0.7	NA	2.3	NA
RD-93	SMRD-093-GW090210	Pa-231	Filtered	6 U	54	16	26
RD-93	SMRD-093-GW090210	Pa-231	Suspended	0.04 U	26	7.6	13
RD-93	SMRD-093-GW090210	Pa-231	Total	6	NA	18	NA
RD-93	SMRD-093-GW090210	Pb-212	Filtered	-0.9 U	2.9	1.4	1.4
RD-93	SMRD-093-GW090210	Pb-212	Suspended	1.18	1.2	0.46	0.57
RD-93	SMRD-093-GW090210	Pb-212	Total	0.3	NA	1.5	NA
RD-93	SMRD-093-GW090210	Pb-214	Filtered	-1 U	3.1	2.2	1.5
RD-93	SMRD-093-GW090210	Pb-214	Suspended	-0.1 U	1.4	0.39	0.67
RD-93	SMRD-093-GW090210	Pb-214	Total	-1.2	NA	2.3	NA
RD-93	SMRD-093-GW090210	Sb-125	Filtered	-0.02 U	13	3.8	6.2
RD-93	SMRD-093-GW090210	Sb-125	Suspended	0.1 U	6.7	2	3.3
RD-93	SMRD-093-GW090210	Sb-125	Total	0.1	NA	4.3	NA
RD-93	SMRD-093-GW090210	Sn-126	Filtered	0.26 U	1.6	0.47	0.75
RD-93	SMRD-093-GW090210	Sn-126	Suspended	0.29 U	0.73	0.22	0.34
RD-93	SMRD-093-GW090210	Sn-126	Total	0.55	NA	0.52	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-093-GW090210	Sr-90	Filtered	0.001 U	0.14	0.041	0.08
RD-93	SMRD-093-GW090210	Sr-90	Suspended	0.047 U	0.1	0.032	0.059
RD-93	SMRD-093-GW090210	Sr-90	Total	0.048	NA	0.052	NA
RD-93	SMRD-093-GW090210	Te-125m	Filtered	-0.004 U	3	0.87	1.4
RD-93	SMRD-093-GW090210	Te-125m	Suspended	0.03 U	1.5	0.46	0.75
RD-93	SMRD-093-GW090210	Te-125m	Total	0.03	NA	0.99	NA
RD-93	SMRD-093-GW090210	Th-231	Filtered	0.376	0.007	0.036	0.006
RD-93	SMRD-093-GW090210	Th-231	Suspended	0.047	0.013	0.015	0.011
RD-93	SMRD-093-GW090210	Th-231	Total	0.423	NA	0.039	NA
RD-93	SMRD-093-GW090210	Th-234	Filtered	11.2 U	26	9.5	12
RD-93	SMRD-093-GW090210	Th-234	Suspended	0.6 U	8	2.8	3.9
RD-93	SMRD-093-GW090210	Th-234	Total	11.8	NA	9.9	NA
RD-93	SMRD-093-GW090210	Tl-208	Filtered	0.18 U	1.8	0.49	0.88
RD-93	SMRD-093-GW090210	Tl-208	Suspended	0.25 U	0.91	0.26	0.43
RD-93	SMRD-093-GW090210	Tl-208	Total	0.43	NA	0.55	NA
RD-93	SMRD-093-GW090210	Tm-171	Filtered	-50 U	370	110	180
RD-93	SMRD-093-GW090210	Tm-171	Suspended	-147 R U	140	43	67
RD-93	SMRD-093-GW090210	Tm-171	Total	-190 R	NA	120	NA
RD-93	SMRD-093-GW090210	U-233/234	Filtered	9.16	0.02	0.41	0.007
RD-93	SMRD-093-GW090210	U-233/234	Suspended	0.572	0.035	0.053	0.012
RD-93	SMRD-093-GW090210	U-233/234	Total	9.73	NA	0.41	NA
RD-93	SMRD-093-GW090210	U-235/236	Filtered	0.376	0.007	0.036	0.006
RD-93	SMRD-093-GW090210	U-235/236	Suspended	0.047	0.013	0.015	0.011
RD-93	SMRD-093-GW090210	U-235/236	Total	0.423	NA	0.039	NA
RD-93	SMRD-093-GW090210	U-238	Filtered	8.17	0.006	0.37	0.005
RD-93	SMRD-093-GW090210	U-238	Suspended	0.563	0.035	0.053	0.012
RD-93	SMRD-093-GW090210	U-238	Total	8.73	NA	0.37	NA
RD-94	SMRD-94-GW083110	Ac-227	Filtered	-7.8 L U	10	3.2	5.1
RD-94	SMRD-94-GW083110	Ac-227	Suspended	-6.9 R U	5.5	1.7	2.7
RD-94	SMRD-94-GW083110	Ac-227	Total	-14.6 R	NA	3.6	NA
RD-94	SMRD-94-GW083110	Ac-228	Filtered	3.9	3.7	1.2	1.7
RD-94	SMRD-94-GW083110	Ac-228	Suspended	-0.08 U	3.2	0.88	1.5
RD-94	SMRD-94-GW083110	Ac-228	Total	3.8	NA	1.5	NA
RD-94	SMRD-94-GW083110	Ag-108	Filtered	-0.001 U R	0.065	0.019	0.031
RD-94	SMRD-94-GW083110	Ag-108	Suspended	0.024 R	0.047	0.014	0.023
RD-94	SMRD-94-GW083110	Ag-108	Total	0.023 R	NA	0.024	NA
RD-94	SMRD-94-GW083110	Ag-108m	Filtered	-0.01 U R	0.7	0.2	0.33
RD-94	SMRD-94-GW083110	Ag-108m	Suspended	0.25 R	0.51	0.15	0.24

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW083110	Ag-108m	Total	0.24 R	NA	0.25	NA
RD-94	SMRD-94-GW083110	Ba-133	Filtered	-4.1 U R	13	4	6.5
RD-94	SMRD-94-GW083110	Ba-133	Suspended	0.7 U R	6.1	1.8	3
RD-94	SMRD-94-GW083110	Ba-133	Total	-3.5 R	NA	4.4	NA
RD-94	SMRD-94-GW083110	Ba-137m	Filtered	0.0005 U	1.2	0.34	0.57
RD-94	SMRD-94-GW083110	Ba-137m	Suspended	-0.03 U	0.55	0.16	0.26
RD-94	SMRD-94-GW083110	Ba-137m	Total	-0.03	NA	0.38	NA
RD-94	SMRD-94-GW083110	Bi-212	Filtered	-0.6 U	12	3.9	5.6
RD-94	SMRD-94-GW083110	Bi-212	Suspended	-2.5 U	6.3	1.9	3
RD-94	SMRD-94-GW083110	Bi-212	Total	-3	NA	4.4	NA
RD-94	SMRD-94-GW083110	Bi-214	Filtered	1 U	3	1.1	1.4
RD-94	SMRD-94-GW083110	Bi-214	Suspended	1.09	1.7	0.62	0.84
RD-94	SMRD-94-GW083110	Bi-214	Total	2.1	NA	1.2	NA
RD-94	SMRD-94-GW083110	Cd-113m	Filtered	-1300 U	15000	4500	7400
RD-94	SMRD-94-GW083110	Cd-113m	Suspended	-200 U	7100	2100	3400
RD-94	SMRD-94-GW083110	Cd-113m	Total	-1500	NA	5000	NA
RD-94	SMRD-94-GW083110	Cf-249	Filtered	-0.4 U R	5.5	1.6	2.7
RD-94	SMRD-94-GW083110	Cf-249	Suspended	0.92 U R	2.7	0.81	1.3
RD-94	SMRD-94-GW083110	Cf-249	Total	0.5 R	NA	1.8	NA
RD-94	SMRD-94-GW083110	Co-60	Filtered	0.16 U	1	0.29	0.46
RD-94	SMRD-94-GW083110	Co-60	Suspended	0.1 U	0.75	0.22	0.35
RD-94	SMRD-94-GW083110	Co-60	Total	0.25	NA	0.36	NA
RD-94	SMRD-94-GW083110	Cs-134	Filtered	-0.03 U	1.4	0.42	0.69
RD-94	SMRD-94-GW083110	Cs-134	Suspended	-0.05 U	0.84	0.25	0.41
RD-94	SMRD-94-GW083110	Cs-134	Total	-0.08 SK	NA	0.49	NA
RD-94	SMRD-94-GW083110	Cs-137	Filtered	0.0006 U	1.3	0.36	0.6
RD-94	SMRD-94-GW083110	Cs-137	Suspended	-0.03 U	0.59	0.17	0.28
RD-94	SMRD-94-GW083110	Cs-137	Total	-0.03	NA	0.4	NA
RD-94	SMRD-94-GW083110	Eu-152	Filtered	0.34 U	3.3	0.97	1.6
RD-94	SMRD-94-GW083110	Eu-152	Suspended	-0.07 U	2	0.59	0.97
RD-94	SMRD-94-GW083110	Eu-152	Total	0.3	NA	1.1	NA
RD-94	SMRD-94-GW083110	Eu-154	Filtered	-0.9 U	11	3.1	5.1
RD-94	SMRD-94-GW083110	Eu-154	Suspended	2.8	4.8	1.5	2.2
RD-94	SMRD-94-GW083110	Eu-154	Total	1.8	NA	3.4	NA
RD-94	SMRD-94-GW083110	Eu-155	Filtered	-0.2 U	3.4	1	1.7
RD-94	SMRD-94-GW083110	Eu-155	Suspended	-0.08 U	1.2	0.35	0.58
RD-94	SMRD-94-GW083110	Eu-155	Total	-0.2 SK	NA	1.1	NA
RD-94	SMRD-94-GW083110	gross_alpha	Filtered	15.2	0.36	0.91	0.18

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW083110	gross_alpha	Suspended	15.7	1	1.2	0.5
RD-94	SMRD-94-GW083110	gross_alpha	Total	30.9	NA	1.5	NA
RD-94	SMRD-94-GW083110	gross_beta	Filtered	12.5	2.9	1.4	1.7
RD-94	SMRD-94-GW083110	gross_beta	Suspended	9.36	0.97	0.67	0.53
RD-94	SMRD-94-GW083110	gross_beta	Total	21.9	NA	1.6	NA
RD-94	SMRD-94-GW083110	H-3	Filtered	9550 B	130	430	60
RD-94	SMRD-94-GW083110	H-3	Suspended	-4.9 U RB	19	4.8	8.4
RD-94	SMRD-94-GW083110	H-3	Total	9540 RB	NA	430	NA
RD-94	SMRD-94-GW083110	Ho-166m	Filtered	0.32 U	1.9	0.56	0.9
RD-94	SMRD-94-GW083110	Ho-166m	Suspended	-0.2 U	1.1	0.34	0.55
RD-94	SMRD-94-GW083110	Ho-166m	Total	0.12 SK	NA	0.65	NA
RD-94	SMRD-94-GW083110	K-40	Filtered	15.4	24	7	12
RD-94	SMRD-94-GW083110	K-40	Suspended	11	12	3.9	5.8
RD-94	SMRD-94-GW083110	K-40	Total	26.4	NA	8	NA
RD-94	SMRD-94-GW083110	Na-22	Filtered	0.18 U	1.1	0.32	0.51
RD-94	SMRD-94-GW083110	Na-22	Suspended	-0.05 U	0.7	0.2	0.32
RD-94	SMRD-94-GW083110	Na-22	Total	0.13	NA	0.37	NA
RD-94	SMRD-94-GW083110	Nb-94	Filtered	0.42	0.88	0.27	0.42
RD-94	SMRD-94-GW083110	Nb-94	Suspended	0.18 U	0.66	0.2	0.32
RD-94	SMRD-94-GW083110	Nb-94	Total	0.6	NA	0.33	NA
RD-94	SMRD-94-GW083110	Np-236	Filtered	-0.51 U	2.9	0.87	1.4
RD-94	SMRD-94-GW083110	Np-236	Suspended	0.16 U	0.86	0.25	0.41
RD-94	SMRD-94-GW083110	Np-236	Total	-0.34 SK	NA	0.91	NA
RD-94	SMRD-94-GW083110	Np-239	Filtered	-1.3 U	7.9	2.4	3.9
RD-94	SMRD-94-GW083110	Np-239	Suspended	-0.01 U	3.8	1.1	1.8
RD-94	SMRD-94-GW083110	Np-239	Total	-1.3	NA	2.6	NA
RD-94	SMRD-94-GW083110	Pa-231	Filtered	14 U	47	14	23
RD-94	SMRD-94-GW083110	Pa-231	Suspended	-0.9 U	31	9.1	15
RD-94	SMRD-94-GW083110	Pa-231	Total	13	NA	17	NA
RD-94	SMRD-94-GW083110	Pb-212	Filtered	-0.04 U	3	1	1.4
RD-94	SMRD-94-GW083110	Pb-212	Suspended	2.41	1.3	0.46	0.63
RD-94	SMRD-94-GW083110	Pb-212	Total	2.4	NA	1.1	NA
RD-94	SMRD-94-GW083110	Pb-214	Filtered	1.37	2.5	0.85	1.2
RD-94	SMRD-94-GW083110	Pb-214	Suspended	0.34 U	1.5	0.54	0.74
RD-94	SMRD-94-GW083110	Pb-214	Total	1.7	NA	1	NA
RD-94	SMRD-94-GW083110	Sb-125	Filtered	-2.5 U	15	4.4	7.2
RD-94	SMRD-94-GW083110	Sb-125	Suspended	1.3 U	6.4	1.9	3.1
RD-94	SMRD-94-GW083110	Sb-125	Total	-1.2 SK	NA	4.8	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW083110	Sn-126	Filtered	-0.02 U	1.3	0.37	0.6
RD-94	SMRD-94-GW083110	Sn-126	Suspended	0.06 U	0.82	0.24	0.39
RD-94	SMRD-94-GW083110	Sn-126	Total	0.04	NA	0.44	NA
RD-94	SMRD-94-GW083110	Sr-90	Filtered	0.04 U	0.18	0.053	0.11
RD-94	SMRD-94-GW083110	Sr-90	Suspended	0.002 U	0.11	0.031	0.061
RD-94	SMRD-94-GW083110	Sr-90	Total	0.042	NA	0.062	NA
RD-94	SMRD-94-GW083110	Te-125m	Filtered	-0.6 U	3.4	1	1.7
RD-94	SMRD-94-GW083110	Te-125m	Suspended	0.31 U	1.5	0.44	0.71
RD-94	SMRD-94-GW083110	Te-125m	Total	-0.3 SK	NA	1.1	NA
RD-94	SMRD-94-GW083110	Th-231	Filtered	0.612	0.007	0.048	0.006
RD-94	SMRD-94-GW083110	Th-231	Suspended	0.043	0.029	0.016	0.008
RD-94	SMRD-94-GW083110	Th-231	Total	0.655	NA	0.051	NA
RD-94	SMRD-94-GW083110	Th-234	Filtered	16.1	22	7.4	11
RD-94	SMRD-94-GW083110	Th-234	Suspended	6.1	8.5	2.7	4.2
RD-94	SMRD-94-GW083110	Th-234	Total	22.2	NA	7.9	NA
RD-94	SMRD-94-GW083110	Tl-208	Filtered	0.88	1.6	0.54	0.75
RD-94	SMRD-94-GW083110	Tl-208	Suspended	1.09	0.85	0.33	0.41
RD-94	SMRD-94-GW083110	Tl-208	Total	1.97	NA	0.63	NA
RD-94	SMRD-94-GW083110	Tm-171	Filtered	190 U	410	130	200
RD-94	SMRD-94-GW083110	Tm-171	Suspended	39 U	130	38	61
RD-94	SMRD-94-GW083110	Tm-171	Total	230	NA	130	NA
RD-94	SMRD-94-GW083110	U-233/234	Filtered	11.3	0.02	0.5	0.005
RD-94	SMRD-94-GW083110	U-233/234	Suspended	0.801	0.023	0.069	0.006
RD-94	SMRD-94-GW083110	U-233/234	Total	12.1	NA	0.5	NA
RD-94	SMRD-94-GW083110	U-235/236	Filtered	0.612	0.007	0.048	0.006
RD-94	SMRD-94-GW083110	U-235/236	Suspended	0.043	0.029	0.016	0.008
RD-94	SMRD-94-GW083110	U-235/236	Total	0.656	NA	0.051	NA
RD-94	SMRD-94-GW083110	U-238	Filtered	11.4	0.02	0.5	0.005
RD-94	SMRD-94-GW083110	U-238	Suspended	0.881	0.012	0.073	0.006
RD-94	SMRD-94-GW083110	U-238	Total	12.3	NA	0.51	NA
RD-95	SMRD-095-GW090210	Ac-227	Filtered	-0.2 U	12	3.5	5.8
RD-95	SMRD-095-GW090210	Ac-227	Suspended	-0.06 U	6	1.8	2.9
RD-95	SMRD-095-GW090210	Ac-227	Total	-0.2	NA	4	NA
RD-95	SMRD-095-GW090210	Ac-228	Filtered	7.9 B	3.4	1.3	1.5
RD-95	SMRD-095-GW090210	Ac-228	Suspended	0.2 U	2.9	0.73	1.4
RD-95	SMRD-095-GW090210	Ac-228	Total	8.1 B	NA	1.5	NA
RD-95	SMRD-095-GW090210	Ag-108	Filtered	-0.029 U R	0.11	0.034	0.054
RD-95	SMRD-095-GW090210	Ag-108	Suspended	0.009 U R	0.049	0.015	0.024

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-095-GW090210	Ag-108	Total	-0.019 R	NA	0.037	NA
RD-95	SMRD-095-GW090210	Ag-108m	Filtered	-0.31 U R	1.2	0.36	0.58
RD-95	SMRD-095-GW090210	Ag-108m	Suspended	0.1 U R	0.53	0.16	0.25
RD-95	SMRD-095-GW090210	Ag-108m	Total	-0.21 R	NA	0.4	NA
RD-95	SMRD-095-GW090210	Ba-133	Filtered	0.3 U R	13	3.8	6.2
RD-95	SMRD-095-GW090210	Ba-133	Suspended	1.4 U R	6.3	1.9	3.1
RD-95	SMRD-095-GW090210	Ba-133	Total	1.6 R	NA	4.2	NA
RD-95	SMRD-095-GW090210	Ba-137m	Filtered	0.65 U	1.5	0.45	0.69
RD-95	SMRD-095-GW090210	Ba-137m	Suspended	0.14 U	0.72	0.21	0.34
RD-95	SMRD-095-GW090210	Ba-137m	Total	0.8	NA	0.49	NA
RD-95	SMRD-095-GW090210	Bi-212	Filtered	-1.3 U	13	3.7	5.9
RD-95	SMRD-095-GW090210	Bi-212	Suspended	1.6 U	6.4	1.9	3.1
RD-95	SMRD-095-GW090210	Bi-212	Total	0.3	NA	4.1	NA
RD-95	SMRD-095-GW090210	Bi-214	Filtered	1.8	3.5	1.3	1.7
RD-95	SMRD-095-GW090210	Bi-214	Suspended	-0.59 U	1.9	0.95	0.92
RD-95	SMRD-095-GW090210	Bi-214	Total	1.2	NA	1.6	NA
RD-95	SMRD-095-GW090210	Cd-113m	Filtered	6500 U	16000	4900	7800
RD-95	SMRD-095-GW090210	Cd-113m	Suspended	-500 U	5500	1600	2600
RD-95	SMRD-095-GW090210	Cd-113m	Total	6000	NA	5200	NA
RD-95	SMRD-095-GW090210	Cf-249	Filtered	1.8 U R	6.5	1.9	3.1
RD-95	SMRD-095-GW090210	Cf-249	Suspended	0.47 U B	2.9	0.86	1.4
RD-95	SMRD-095-GW090210	Cf-249	Total	2.3 B R	NA	2.1	NA
RD-95	SMRD-095-GW090210	Co-60	Filtered	0.27 U	1.8	0.51	0.81
RD-95	SMRD-095-GW090210	Co-60	Suspended	0.34	0.7	0.21	0.32
RD-95	SMRD-095-GW090210	Co-60	Total	0.61	NA	0.55	NA
RD-95	SMRD-095-GW090210	Cs-134	Filtered	-0.42 U	1.6	0.46	0.73
RD-95	SMRD-095-GW090210	Cs-134	Suspended	-0.05 U	0.78	0.23	0.37
RD-95	SMRD-095-GW090210	Cs-134	Total	-0.46	NA	0.52	NA
RD-95	SMRD-095-GW090210	Cs-137	Filtered	0.69 U	1.6	0.47	0.73
RD-95	SMRD-095-GW090210	Cs-137	Suspended	0.15 U	0.76	0.22	0.36
RD-95	SMRD-095-GW090210	Cs-137	Total	0.84	NA	0.52	NA
RD-95	SMRD-095-GW090210	Eu-152	Filtered	-0.1 U	4.8	1.4	2.3
RD-95	SMRD-095-GW090210	Eu-152	Suspended	-0.04 U	1.4	0.42	0.69
RD-95	SMRD-095-GW090210	Eu-152	Total	-0.1	NA	1.5	NA
RD-95	SMRD-095-GW090210	Eu-154	Filtered	0 U	17	4.9	8.1
RD-95	SMRD-095-GW090210	Eu-154	Suspended	-0.5 U	5.7	1.7	2.7
RD-95	SMRD-095-GW090210	Eu-154	Total	-0.5	NA	5.2	NA
RD-95	SMRD-095-GW090210	Eu-155	Filtered	0.86 U	2.8	0.85	1.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-095-GW090210	Eu-155	Suspended	0.17 U	1.2	0.37	0.6
RD-95	SMRD-095-GW090210	Eu-155	Total	1.03	NA	0.93	NA
RD-95	SMRD-095-GW090210	gross_alpha	Filtered	15.7	0.7	1.1	0.4
RD-95	SMRD-095-GW090210	gross_alpha	Suspended	4.71	0.93	0.61	0.49
RD-95	SMRD-095-GW090210	gross_alpha	Total	20.4	NA	1.3	NA
RD-95	SMRD-095-GW090210	gross_beta	Filtered	11.5	2.2	1.2	1.3
RD-95	SMRD-095-GW090210	gross_beta	Suspended	2.36	0.77	0.34	0.44
RD-95	SMRD-095-GW090210	gross_beta	Total	13.9	NA	1.2	NA
RD-95	SMRD-095-GW090210	H-3	Filtered	59700	200	2700	70
RD-95	SMRD-095-GW090210	H-3	Suspended	-7.6 U R	24	5.9	11
RD-95	SMRD-095-GW090210	H-3	Total	59700 R	NA	2700	NA
RD-95	SMRD-095-GW090210	Ho-166m	Filtered	-0.04 U	1.8	0.5	0.82
RD-95	SMRD-095-GW090210	Ho-166m	Suspended	-0.14 U	1.1	0.33	0.53
RD-95	SMRD-095-GW090210	Ho-166m	Total	-0.18	NA	0.6	NA
RD-95	SMRD-095-GW090210	K-40	Filtered	-19 U	25	32	12
RD-95	SMRD-095-GW090210	K-40	Suspended	8.1	12	3.3	5.6
RD-95	SMRD-095-GW090210	K-40	Total	-11	NA	32	NA
RD-95	SMRD-095-GW090210	Na-22	Filtered	-0.1 U	1.9	0.54	0.88
RD-95	SMRD-095-GW090210	Na-22	Suspended	0.01 U	0.85	0.24	0.4
RD-95	SMRD-095-GW090210	Na-22	Total	-0.09	NA	0.59	NA
RD-95	SMRD-095-GW090210	Nb-94	Filtered	-0.03 U	1.4	0.39	0.64
RD-95	SMRD-095-GW090210	Nb-94	Suspended	0.22 U	0.62	0.18	0.29
RD-95	SMRD-095-GW090210	Nb-94	Total	0.19	NA	0.43	NA
RD-95	SMRD-095-GW090210	Np-236	Filtered	-0.28 U	2.6	0.78	1.3
RD-95	SMRD-095-GW090210	Np-236	Suspended	-0.33 U	1.3	0.38	0.63
RD-95	SMRD-095-GW090210	Np-236	Total	-0.62	NA	0.87	NA
RD-95	SMRD-095-GW090210	Np-236a	Total	0 R	NA	0	NA
RD-95	SMRD-095-GW090210	Np-239	Filtered	-2 U	9	2.7	4.4
RD-95	SMRD-095-GW090210	Np-239	Suspended	-0.1 U	3.6	1.1	1.7
RD-95	SMRD-095-GW090210	Np-239	Total	-2.1	NA	2.9	NA
RD-95	SMRD-095-GW090210	Pa-231	Filtered	-1 U	62	18	30
RD-95	SMRD-095-GW090210	Pa-231	Suspended	-1.8 U	27	8.1	13
RD-95	SMRD-095-GW090210	Pa-231	Total	-3	NA	20	NA
RD-95	SMRD-095-GW090210	Pb-212	Filtered	1.24 U	2.8	0.94	1.4
RD-95	SMRD-095-GW090210	Pb-212	Suspended	0.3 U	1.3	0.4	0.61
RD-95	SMRD-095-GW090210	Pb-212	Total	1.5	NA	1	NA
RD-95	SMRD-095-GW090210	Pb-214	Filtered	2	3.4	1.2	1.6
RD-95	SMRD-095-GW090210	Pb-214	Suspended	-0.29 U	1.6	0.51	0.78

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-095-GW090210	Pb-214	Total	1.7	NA	1.3	NA
RD-95	SMRD-095-GW090210	Sb-125	Filtered	-0.4 U	14	4.1	6.7
RD-95	SMRD-095-GW090210	Sb-125	Suspended	-1 U	6.3	1.9	3.1
RD-95	SMRD-095-GW090210	Sb-125	Total	-1.4	NA	4.5	NA
RD-95	SMRD-095-GW090210	Sn-126	Filtered	0.52 U	1.5	0.44	0.69
RD-95	SMRD-095-GW090210	Sn-126	Suspended	0.3 U	0.76	0.23	0.36
RD-95	SMRD-095-GW090210	Sn-126	Total	0.83	NA	0.5	NA
RD-95	SMRD-095-GW090210	Sr-90	Filtered	0.003 U	0.14	0.04	0.078
RD-95	SMRD-095-GW090210	Sr-90	Suspended	0.06	0.095	0.03	0.054
RD-95	SMRD-095-GW090210	Sr-90	Total	0.064	NA	0.05	NA
RD-95	SMRD-095-GW090210	Te-125m	Filtered	-0.09 U	3.2	0.94	1.5
RD-95	SMRD-095-GW090210	Te-125m	Suspended	-0.23 U	1.5	0.43	0.71
RD-95	SMRD-095-GW090210	Te-125m	Total	-0.3	NA	1	NA
RD-95	SMRD-095-GW090210	Th-231	Filtered	0.431	0.008	0.04	0.007
RD-95	SMRD-095-GW090210	Th-231	Suspended	0.0308	0.0076	0.0094	0.0065
RD-95	SMRD-095-GW090210	Th-231	Total	0.461	NA	0.041	NA
RD-95	SMRD-095-GW090210	Th-234	Filtered	11	22	6.7	11
RD-95	SMRD-095-GW090210	Th-234	Suspended	8.5	8.5	2.8	4.1
RD-95	SMRD-095-GW090210	Th-234	Total	19.5	NA	7.2	NA
RD-95	SMRD-095-GW090210	Tl-208	Filtered	1.12	1.6	0.52	0.76
RD-95	SMRD-095-GW090210	Tl-208	Suspended	-0.04 U	0.96	0.28	0.46
RD-95	SMRD-095-GW090210	Tl-208	Total	1.08	NA	0.59	NA
RD-95	SMRD-095-GW090210	Tm-171	Filtered	120 U	360	110	180
RD-95	SMRD-095-GW090210	Tm-171	Suspended	-49 U	120	37	59
RD-95	SMRD-095-GW090210	Tm-171	Total	70	NA	120	NA
RD-95	SMRD-095-GW090210	U-233/234	Filtered	9.45	0.02	0.42	0.008
RD-95	SMRD-095-GW090210	U-233/234	Suspended	0.439	0.017	0.037	0.005
RD-95	SMRD-095-GW090210	U-233/234	Total	9.89	NA	0.43	NA
RD-95	SMRD-095-GW090210	U-235/236	Filtered	0.431	0.008	0.04	0.007
RD-95	SMRD-095-GW090210	U-235/236	Suspended	0.0308	0.0076	0.0094	0.0065
RD-95	SMRD-095-GW090210	U-235/236	Total	0.461	NA	0.041	NA
RD-95	SMRD-095-GW090210	U-238	Filtered	8.43	0.02	0.38	0.008
RD-95	SMRD-095-GW090210	U-238	Suspended	0.425	0.029	0.037	0.012
RD-95	SMRD-095-GW090210	U-238	Total	8.85	NA	0.38	NA
RD-96	SMRD-96-GW081910	Ac-227	Filtered	0.05 U	9.7	2.9	4.7
RD-96	SMRD-96-GW081910	Ac-227	Suspended	-0.2 U	6.4	1.9	3.1
RD-96	SMRD-96-GW081910	Ac-227	Total	-0.1	NA	3.4	NA
RD-96	SMRD-96-GW081910	Ac-228	Filtered	3.4	5.1	1.6	2.4

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW081910	Ac-228	Suspended	2.16	2.6	0.82	1.2
RD-96	SMRD-96-GW081910	Ac-228	Total	5.5	NA	1.8	NA
RD-96	SMRD-96-GW081910	Ag-108	Filtered	-0.019 U R	0.12	0.035	0.057
RD-96	SMRD-96-GW081910	Ag-108	Suspended	-0.0001 U R	0.052	0.015	0.025
RD-96	SMRD-96-GW081910	Ag-108	Total	-0.019 R	NA	0.038	NA
RD-96	SMRD-96-GW081910	Ag-108m	Filtered	-0.2 U R	1.3	0.38	0.61
RD-96	SMRD-96-GW081910	Ag-108m	Suspended	-0.002 U R	0.56	0.16	0.27
RD-96	SMRD-96-GW081910	Ag-108m	Total	-0.2 R	NA	0.41	NA
RD-96	SMRD-96-GW081910	Ba-133	Filtered	-1.1 U R	14	4	6.6
RD-96	SMRD-96-GW081910	Ba-133	Suspended	0.3 U R	5.5	1.6	2.7
RD-96	SMRD-96-GW081910	Ba-133	Total	-0.7 R	NA	4.3	NA
RD-96	SMRD-96-GW081910	Ba-137m	Filtered	0 U	1.5	0.42	0.7
RD-96	SMRD-96-GW081910	Ba-137m	Suspended	0.13 U	0.7	0.21	0.33
RD-96	SMRD-96-GW081910	Ba-137m	Total	0.13	NA	0.47	NA
RD-96	SMRD-96-GW081910	Bi-212	Filtered	2.2 U	12	3.4	5.5
RD-96	SMRD-96-GW081910	Bi-212	Suspended	3.9	5.6	1.7	2.7
RD-96	SMRD-96-GW081910	Bi-212	Total	6.1	NA	3.9	NA
RD-96	SMRD-96-GW081910	Bi-214	Filtered	-0.8 U	3.8	1.3	1.8
RD-96	SMRD-96-GW081910	Bi-214	Suspended	1.4	1.9	0.8	0.91
RD-96	SMRD-96-GW081910	Bi-214	Total	0.6	NA	1.6	NA
RD-96	SMRD-96-GW081910	Cd-113m	Filtered	-300 U	16000	4500	7400
RD-96	SMRD-96-GW081910	Cd-113m	Suspended	2400 U	7100	2100	3400
RD-96	SMRD-96-GW081910	Cd-113m	Total	2100	NA	5000	NA
RD-96	SMRD-96-GW081910	Cf-249	Filtered	-0.8 U R	6.8	2	3.2
RD-96	SMRD-96-GW081910	Cf-249	Suspended	0.62 U R	2.8	0.83	1.3
RD-96	SMRD-96-GW081910	Cf-249	Total	-0.1 R	NA	2.1	NA
RD-96	SMRD-96-GW081910	Co-60	Filtered	-0.001 U	1.8	0.51	0.83
RD-96	SMRD-96-GW081910	Co-60	Suspended	0.13 U	0.74	0.21	0.34
RD-96	SMRD-96-GW081910	Co-60	Total	0.13	NA	0.55	NA
RD-96	SMRD-96-GW081910	Cs-134	Filtered	0.32 U	1.4	0.42	0.66
RD-96	SMRD-96-GW081910	Cs-134	Suspended	-0.14 U	0.95	0.28	0.46
RD-96	SMRD-96-GW081910	Cs-134	Total	0.18	NA	0.5	NA
RD-96	SMRD-96-GW081910	Cs-137	Filtered	0 U	1.6	0.45	0.74
RD-96	SMRD-96-GW081910	Cs-137	Suspended	0.13 U	0.74	0.22	0.35
RD-96	SMRD-96-GW081910	Cs-137	Total	0.13	NA	0.5	NA
RD-96	SMRD-96-GW081910	Eu-152	Filtered	0.08 U	3.7	1.1	1.8
RD-96	SMRD-96-GW081910	Eu-152	Suspended	0.11 U	1.8	0.52	0.86
RD-96	SMRD-96-GW081910	Eu-152	Total	0.2	NA	1.2	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW081910	Eu-154	Filtered	-0.3 U	8.9	2.4	3.9
RD-96	SMRD-96-GW081910	Eu-154	Suspended	-0.04 U	5	1.4	2.3
RD-96	SMRD-96-GW081910	Eu-154	Total	-0.3	NA	2.8	NA
RD-96	SMRD-96-GW081910	Eu-155	Filtered	0.334 U	3.4	0.997	1.6
RD-96	SMRD-96-GW081910	Eu-155	Suspended	0.31 U	1.2	0.37	0.6
RD-96	SMRD-96-GW081910	Eu-155	Total	0.6	NA	1.1	NA
RD-96	SMRD-96-GW081910	gross_alpha	Filtered	11.7	0.53	0.83	0.27
RD-96	SMRD-96-GW081910	gross_alpha	Suspended	8.63	0.59	0.7	0.31
RD-96	SMRD-96-GW081910	gross_alpha	Total	20.3	NA	1.1	NA
RD-96	SMRD-96-GW081910	gross_beta	Filtered	13.4	2.1	1.2	1.2
RD-96	SMRD-96-GW081910	gross_beta	Suspended	7.28	0.79	0.54	0.45
RD-96	SMRD-96-GW081910	gross_beta	Total	20.7	NA	1.3	NA
RD-96	SMRD-96-GW081910	H-3	Filtered	43 U	130	40	66
RD-96	SMRD-96-GW081910	H-3	Suspended	2.3 U	12	3.5	5.3
RD-96	SMRD-96-GW081910	H-3	Total	45	NA	41	NA
RD-96	SMRD-96-GW081910	Ho-166m	Filtered	-0.23 U	2.5	0.72	1.2
RD-96	SMRD-96-GW081910	Ho-166m	Suspended	0.23 U	1.1	0.32	0.51
RD-96	SMRD-96-GW081910	Ho-166m	Total	0.006	NA	0.79	NA
RD-96	SMRD-96-GW081910	K-40	Filtered	-5.2 U	23	7.8	10
RD-96	SMRD-96-GW081910	K-40	Suspended	6.4	9.7	3	4.6
RD-96	SMRD-96-GW081910	K-40	Total	1.2	NA	8.4	NA
RD-96	SMRD-96-GW081910	Na-22	Filtered	-0.01 U	1.6	0.44	0.72
RD-96	SMRD-96-GW081910	Na-22	Suspended	0.28 U	0.83	0.25	0.39
RD-96	SMRD-96-GW081910	Na-22	Total	0.27	NA	0.5	NA
RD-96	SMRD-96-GW081910	Nb-94	Filtered	0.45 U	1.2	0.35	0.54
RD-96	SMRD-96-GW081910	Nb-94	Suspended	0.15 U	0.7	0.21	0.33
RD-96	SMRD-96-GW081910	Nb-94	Total	0.61	NA	0.41	NA
RD-96	SMRD-96-GW081910	Np-236	Filtered	0.72 U	2.8	0.84	1.4
RD-96	SMRD-96-GW081910	Np-236	Suspended	0.02 U	1.2	0.35	0.57
RD-96	SMRD-96-GW081910	Np-236	Total	0.75	NA	0.91	NA
RD-96	SMRD-96-GW081910	Np-239	Filtered	1.3 U	8.8	2.6	4.2
RD-96	SMRD-96-GW081910	Np-239	Suspended	-0.8 U	4	1.2	1.9
RD-96	SMRD-96-GW081910	Np-239	Total	0.5	NA	2.9	NA
RD-96	SMRD-96-GW081910	Pa-231	Filtered	3 U	52	15	25
RD-96	SMRD-96-GW081910	Pa-231	Suspended	0.4 U	29	8.5	14
RD-96	SMRD-96-GW081910	Pa-231	Total	3	NA	17	NA
RD-96	SMRD-96-GW081910	Pb-212	Filtered	0.47 U	2.9	0.92	1.4
RD-96	SMRD-96-GW081910	Pb-212	Suspended	1.63	1.2	0.39	0.57

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW081910	Pb-212	Total	2.1	NA	0.99	NA
RD-96	SMRD-96-GW081910	Pb-214	Filtered	2.9	3	1	1.4
RD-96	SMRD-96-GW081910	Pb-214	Suspended	2.16	1.5	0.5	0.75
RD-96	SMRD-96-GW081910	Pb-214	Total	5	NA	1.1	NA
RD-96	SMRD-96-GW081910	Sb-125	Filtered	2.4 U	14	4.2	6.8
RD-96	SMRD-96-GW081910	Sb-125	Suspended	0.7 U	6.1	1.8	2.9
RD-96	SMRD-96-GW081910	Sb-125	Total	3	NA	4.5	NA
RD-96	SMRD-96-GW081910	Sn-126	Filtered	0.93	1.4	0.44	0.65
RD-96	SMRD-96-GW081910	Sn-126	Suspended	0.26 U	0.78	0.23	0.37
RD-96	SMRD-96-GW081910	Sn-126	Total	1.19	NA	0.5	NA
RD-96	SMRD-96-GW081910	Sr-90	Suspended	0.082	0.069	0.023	0.039
RD-96	SMRD-96-GW081910	Sr-90	Total	0.27	NA	0.076	NA
RD-96	SMRD-96-GW081910	Te-125m	Filtered	0.54 U	3.3	0.96	1.6
RD-96	SMRD-96-GW081910	Te-125m	Suspended	0.15 U	1.4	0.42	0.68
RD-96	SMRD-96-GW081910	Te-125m	Total	0.7	NA	1	NA
RD-96	SMRD-96-GW081910	Th-231	Filtered	0.225	0.016	0.038	0.009
RD-96	SMRD-96-GW081910	Th-231	Suspended	0.0056 U	0.015	0.0056	0.008
RD-96	SMRD-96-GW081910	Th-231	Total	0.231	NA	0.039	NA
RD-96	SMRD-96-GW081910	Th-234	Filtered	16.2	22	7.1	10
RD-96	SMRD-96-GW081910	Th-234	Suspended	2.3 U	7.2	2.3	3.5
RD-96	SMRD-96-GW081910	Th-234	Total	18.5	NA	7.5	NA
RD-96	SMRD-96-GW081910	Tl-208	Filtered	-0.7 U	1.8	1.3	0.9
RD-96	SMRD-96-GW081910	Tl-208	Suspended	0.78	0.85	0.35	0.41
RD-96	SMRD-96-GW081910	Tl-208	Total	0.1	NA	1.3	NA
RD-96	SMRD-96-GW081910	Tm-171	Filtered	9 U	330	98	160
RD-96	SMRD-96-GW081910	Tm-171	Suspended	-2 U	120	36	60
RD-96	SMRD-96-GW081910	Tm-171	Total	7	NA	100	NA
RD-96	SMRD-96-GW081910	U-233/234	Filtered	3.89	0.06	0.21	0.03
RD-96	SMRD-96-GW081910	U-233/234	Suspended	0.396	0.012	0.046	0.006
RD-96	SMRD-96-GW081910	U-233/234	Total	4.28	NA	0.22	NA
RD-96	SMRD-96-GW081910	U-235/236	Filtered	0.225	0.016	0.038	0.009
RD-96	SMRD-96-GW081910	U-235/236	Suspended	0.0056 U	0.015	0.0056	0.008
RD-96	SMRD-96-GW081910	U-235/236	Total	0.231	NA	0.039	NA
RD-96	SMRD-96-GW081910	U-238	Filtered	3.83	0.03	0.21	0.01
RD-96	SMRD-96-GW081910	U-238	Suspended	0.249	0.012	0.036	0.006
RD-96	SMRD-96-GW081910	U-238	Total	4.08	NA	0.21	NA
RD-98	SMRD-098-GW090210	Ac-227	Filtered	-9.1 L U	11	3.5	5.6
RD-98	SMRD-098-GW090210	Ac-227	Suspended	-1.4 U	2.8	0.85	1.3

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-098-GW090210	Ac-227	Total	-7	NA	3.5	NA
RD-98	SMRD-098-GW090210	Ac-228	Filtered	3.2	4.1	1.3	1.9
RD-98	SMRD-098-GW090210	Ac-228	Suspended	1.58	1.8	0.58	0.84
RD-98	SMRD-098-GW090210	Ac-228	Total	4.8	NA	1.4	NA
RD-98	SMRD-098-GW090210	Ag-108	Filtered	0.005 U R	0.093	0.027	0.045
RD-98	SMRD-098-GW090210	Ag-108	Suspended	0.0003 U R	0.032	0.0091	0.015
RD-98	SMRD-098-GW090210	Ag-108	Total	0.02 R	NA	0.32	NA
RD-98	SMRD-098-GW090210	Ag-108m	Filtered	0.05 U R	1	0.29	0.48
RD-98	SMRD-098-GW090210	Ag-108m	Suspended	0.003 U R	0.34	0.098	0.16
RD-98	SMRD-098-GW090210	Ag-108m	Total	0.03 R	NA	0.33	NA
RD-98	SMRD-098-GW090210	Am-241	Filtered	0.023	0.033	0.013	0.011
RD-98	SMRD-098-GW090210	Am-241	Suspended	0.019	0.033	0.011	0.012
RD-98	SMRD-098-GW090210	Am-241	Total	0.042	NA	0.017	NA
RD-98	SMRD-098-GW090210	Ba-133	Filtered	2.9 U R	13	3.9	6.3
RD-98	SMRD-098-GW090210	Ba-133	Suspended	-1 U R	4.1	1.2	2
RD-98	SMRD-098-GW090210	Ba-133	Total	2 R	NA	4	NA
RD-98	SMRD-098-GW090210	Ba-137m	Filtered	-0.25 U	1.2	0.37	0.59
RD-98	SMRD-098-GW090210	Ba-137m	Suspended	-0.02 U	0.48	0.14	0.22
RD-98	SMRD-098-GW090210	Ba-137m	Total	-0.28	NA	0.42	NA
RD-98	SMRD-098-GW090210	Bi-212	Filtered	5.7	9.3	2.9	4.4
RD-98	SMRD-098-GW090210	Bi-212	Suspended	0.05 U	4	1.1	1.9
RD-98	SMRD-098-GW090210	Bi-212	Total	5.6	NA	3.1	NA
RD-98	SMRD-098-GW090210	Bi-214	Filtered	6.1	3	1.2	1.4
RD-98	SMRD-098-GW090210	Bi-214	Suspended	0.26 U	1.2	0.42	0.57
RD-98	SMRD-098-GW090210	Bi-214	Total	5	NA	1.5	NA
RD-98	SMRD-098-GW090210	C-14	Filtered	1.11	2.2	0.69	1.1
RD-98	SMRD-098-GW090210	C-14	Suspended	-0.24 U R	2.1	0.64	1.1
RD-98	SMRD-098-GW090210	C-14	Total	0.87 R	NA	0.94	NA
RD-98	SMRD-098-GW090210	Cd-113m	Filtered	900 U	15000	4500	7500
RD-98	SMRD-098-GW090210	Cd-113m	Suspended	1100 U	4600	1400	2200
RD-98	SMRD-098-GW090210	Cd-113m	Total	2000	NA	4700	NA
RD-98	SMRD-098-GW090210	Cf-249	Filtered	-1.9 U R	6.6	2	3.2
RD-98	SMRD-098-GW090210	Cf-249	Suspended	-0.03 U R	2	0.57	0.94
RD-98	SMRD-098-GW090210	Cf-249	Total	-2 R	NA	2.1	NA
RD-98	SMRD-098-GW090210	Cm-243/244	Filtered	0.0013 U	0.032	0.006	0.011
RD-98	SMRD-098-GW090210	Cm-243/244	Suspended	-0.035 U	0.1	0.024	0.054
RD-98	SMRD-098-GW090210	Cm-243/244	Total	-0.034	NA	0.025	NA
RD-98	SMRD-098-GW090210	Cm-245/246	Filtered	0.0172	0.0077	0.007	0.0058

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-098-GW090210	Cm-245/246	Suspended	0.0228	0.027	0.0099	0.011
RD-98	SMRD-098-GW090210	Cm-245/246	Total	0.04	NA	0.012	NA
RD-98	SMRD-098-GW090210	Co-60	Filtered	0 U	0.9	0.25	0.41
RD-98	SMRD-098-GW090210	Co-60	Suspended	-0.01 U	0.64	0.18	0.29
RD-98	SMRD-098-GW090210	Co-60	Total	-0.06	NA	0.43	NA
RD-98	SMRD-098-GW090210	Cs-134	Filtered	-0.18 U	1.2	0.36	0.58
RD-98	SMRD-098-GW090210	Cs-134	Suspended	-0.23 U	0.59	0.18	0.28
RD-98	SMRD-098-GW090210	Cs-134	Total	-0.21	NA	0.43	NA
RD-98	SMRD-098-GW090210	Cs-137	Filtered	-0.26 U	1.3	0.39	0.63
RD-98	SMRD-098-GW090210	Cs-137	Suspended	-0.02 U	0.51	0.14	0.24
RD-98	SMRD-098-GW090210	Cs-137	Total	-0.3	NA	0.44	NA
RD-98	SMRD-098-GW090210	Eu-152	Filtered	-0.4 U	3.9	1.2	1.9
RD-98	SMRD-098-GW090210	Eu-152	Suspended	0.27 U	1.1	0.33	0.52
RD-98	SMRD-098-GW090210	Eu-152	Total	-0.07	NA	1.2	NA
RD-98	SMRD-098-GW090210	Eu-154	Filtered	0.3 U	10	3	4.9
RD-98	SMRD-098-GW090210	Eu-154	Suspended	-0.2 U	4	1.1	1.8
RD-98	SMRD-098-GW090210	Eu-154	Total	0.2	NA	3	NA
RD-98	SMRD-098-GW090210	Eu-155	Filtered	0.34 U	3	0.89	1.5
RD-98	SMRD-098-GW090210	Eu-155	Suspended	0.07 U	0.72	0.21	0.35
RD-98	SMRD-098-GW090210	Eu-155	Total	0.39	NA	0.91	NA
RD-98	SMRD-098-GW090210	gross_alpha	Filtered	4.28	0.44	0.45	0.23
RD-98	SMRD-098-GW090210	gross_alpha	Suspended	7.65	0.64	0.71	0.35
RD-98	SMRD-098-GW090210	gross_alpha	Total	12.7	NA	0.88	NA
RD-98	SMRD-098-GW090210	gross_beta	Filtered	14.7	2.8	1.4	1.6
RD-98	SMRD-098-GW090210	gross_beta	Suspended	2.76	0.81	0.36	0.48
RD-98	SMRD-098-GW090210	gross_beta	Total	17.5	NA	1.4	NA
RD-98	SMRD-098-GW090210	H-3	Filtered	-90 L U	140	40	70
RD-98	SMRD-098-GW090210	H-3	Suspended	13.2 R	19	6	9
RD-98	SMRD-098-GW090210	H-3	Total	-76 R	NA	41	NA
RD-98	SMRD-098-GW090210	Ho-166m	Filtered	-0.19 U	2.1	0.63	1
RD-98	SMRD-098-GW090210	Ho-166m	Suspended	-0.009 U	0.74	0.21	0.34
RD-98	SMRD-098-GW090210	Ho-166m	Total	-0.22	NA	0.67	NA
RD-98	SMRD-098-GW090210	I-129	Filtered	0.29	0.44	0.14	0.22
RD-98	SMRD-098-GW090210	I-129	Suspended	0.03 U	0.46	0.14	0.23
RD-98	SMRD-098-GW090210	I-129	Total	0.33	NA	0.19	NA
RD-98	SMRD-098-GW090210	K-40	Filtered	47.2	18	7.2	8.4
RD-98	SMRD-098-GW090210	K-40	Suspended	-2.3 U	8.8	2.8	4.1
RD-98	SMRD-098-GW090210	K-40	Total	8.5	NA	7.6	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-098-GW090210	Na-22	Filtered	-0.13 U	1.4	0.39	0.64
RD-98	SMRD-098-GW090210	Na-22	Suspended	0.05 U	0.6	0.17	0.27
RD-98	SMRD-098-GW090210	Na-22	Total	-0.05	NA	0.42	NA
RD-98	SMRD-098-GW090210	Nb-94	Filtered	-0.03 U	0.93	0.27	0.44
RD-98	SMRD-098-GW090210	Nb-94	Suspended	-0.09 U	0.45	0.13	0.21
RD-98	SMRD-098-GW090210	Nb-94	Total	0.09	NA	0.34	NA
RD-98	SMRD-098-GW090210	Np-236	Filtered	0.25 U	2.9	0.87	1.4
RD-98	SMRD-098-GW090210	Np-236	Suspended	-0.007 U	0.62	0.18	0.3
RD-98	SMRD-098-GW090210	Np-236	Total	0.33	NA	0.86	NA
RD-98	SMRD-098-GW090210	Np-237	Suspended	0 U	0.0098	0.0018	0.006
RD-98	SMRD-098-GW090210	Np-237	Total	0.0041	NA	0.0072	NA
RD-98	SMRD-098-GW090210	Np-239	Filtered	-0.2 U	8.2	2.4	4
RD-98	SMRD-098-GW090210	Np-239	Suspended	-0.59 U	1.9	0.58	0.92
RD-98	SMRD-098-GW090210	Np-239	Total	-0.7	NA	2.5	NA
RD-98	SMRD-098-GW090210	Pa-231	Filtered	-0.4 U	58	17	28
RD-98	SMRD-098-GW090210	Pa-231	Suspended	0.9 U	20	5.7	9.4
RD-98	SMRD-098-GW090210	Pa-231	Total	1	NA	18	NA
RD-98	SMRD-098-GW090210	Pb-212	Filtered	5.4	3.1	1.5	1.5
RD-98	SMRD-098-GW090210	Pb-212	Suspended	0.24 U	0.7	0.23	0.34
RD-98	SMRD-098-GW090210	Pb-212	Total	4.7	NA	1.6	NA
RD-98	SMRD-098-GW090210	Pb-214	Filtered	3.59	2.7	0.86	1.3
RD-98	SMRD-098-GW090210	Pb-214	Suspended	0.79	0.81	0.26	0.38
RD-98	SMRD-098-GW090210	Pb-214	Total	4.38	NA	0.88	NA
RD-98	SMRD-098-GW090210	Pu-238	Filtered	0.001 U	0.054	0.012	0.024
RD-98	SMRD-098-GW090210	Pu-238	Suspended	0.013 U	0.04	0.011	0.016
RD-98	SMRD-098-GW090210	Pu-238	Total	0.014	NA	0.017	NA
RD-98	SMRD-098-GW090210	Pu-239/240	Filtered	0.0099 U	0.036	0.0098	0.013
RD-98	SMRD-098-GW090210	Pu-239/240	Suspended	-0.004 U	0.037	0.006	0.015
RD-98	SMRD-098-GW090210	Pu-239/240	Total	0.006	NA	0.011	NA
RD-98	SMRD-098-GW090210	Pu-242	Filtered	0.0139	0.027	0.0094	0.0075
RD-98	SMRD-098-GW090210	Pu-242	Suspended	0.0058 U	0.028	0.007	0.0093
RD-98	SMRD-098-GW090210	Pu-242	Total	0.02	NA	0.012	NA
RD-98	SMRD-098-GW090210	Ra-226	Filtered	0.337	0.13	0.071	0.065
RD-98	SMRD-098-GW090210	Ra-226	Suspended	0.22	0.091	0.045	0.047
RD-98	SMRD-098-GW090210	Ra-226	Total	0.556	NA	0.084	NA
RD-98	SMRD-098-GW090210	Sb-125	Filtered	0.07 U	14	4.2	6.9
RD-98	SMRD-098-GW090210	Sb-125	Suspended	-0.03 U	3.3	0.97	1.6
RD-98	SMRD-098-GW090210	Sb-125	Total	-0.1	NA	4.3	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-098-GW090210	Sn-126	Filtered	-0.002 U	1.3	0.38	0.62
RD-98	SMRD-098-GW090210	Sn-126	Suspended	0.22 U	0.57	0.17	0.27
RD-98	SMRD-098-GW090210	Sn-126	Total	0.27	NA	0.4	NA
RD-98	SMRD-098-GW090210	Sr-90	Filtered	7	0.23	0.36	0.14
RD-98	SMRD-098-GW090210	Sr-90	Suspended	0.167	0.15	0.05	0.087
RD-98	SMRD-098-GW090210	Sr-90	Total	7.17	NA	0.36	NA
RD-98	SMRD-098-GW090210	Tc-99	Filtered	-0.01 U	1.7	0.5	0.82
RD-98	SMRD-098-GW090210	Tc-99	Suspended	0.004 U	1.3	0.38	0.63
RD-98	SMRD-098-GW090210	Tc-99	Total	-0.009	NA	0.63	NA
RD-98	SMRD-098-GW090210	Te-125m	Filtered	0.02 U	3.3	0.97	1.6
RD-98	SMRD-098-GW090210	Te-125m	Suspended	-0.008 U	0.77	0.22	0.37
RD-98	SMRD-098-GW090210	Te-125m	Total	-0.1	NA	4.1	NA
RD-98	SMRD-098-GW090210	Th-231	Filtered	0.098	0.019	0.027	0.01
RD-98	SMRD-098-GW090210	Th-231	Suspended	0.0066	0.018	0.0094	0
RD-98	SMRD-098-GW090210	Th-231	Total	0.105	NA	0.028	NA
RD-98	SMRD-098-GW090210	Th-234	Filtered	-3 U	26	11	13
RD-98	SMRD-098-GW090210	Th-234	Suspended	-3 U	5.5	2.3	2.7
RD-98	SMRD-098-GW090210	Th-234	Total	19.5	NA	9.9	NA
RD-98	SMRD-098-GW090210	Tl-208	Filtered	0.04 U	1.4	0.35	0.68
RD-98	SMRD-098-GW090210	Tl-208	Suspended	-0.5 U	0.7	7.5	0.3
RD-98	SMRD-098-GW090210	Tl-208	Total	-0.8	NA	7.5	NA
RD-98	SMRD-098-GW090210	Tm-171	Filtered	0.04 U	410	120	200
RD-98	SMRD-098-GW090210	Tm-171	Suspended	12 U	66	20	32
RD-98	SMRD-098-GW090210	Tm-171	Total	-2	NA	120	NA
RD-98	SMRD-098-GW090210	U-233/234	Filtered	2.18	0.03	0.14	0.008
RD-98	SMRD-098-GW090210	U-233/234	Suspended	0.141	0.032	0.031	0.009
RD-98	SMRD-098-GW090210	U-233/234	Total	2.32	NA	0.15	NA
RD-98	SMRD-098-GW090210	U-235/236	Filtered	0.098	0.019	0.027	0.01
RD-98	SMRD-098-GW090210	U-235/236	Suspended	0.0066	0.018	0.0094	0
RD-98	SMRD-098-GW090210	U-235/236	Total	0.105	NA	0.028	NA
RD-98	SMRD-098-GW090210	U-238	Filtered	1.52	0.04	0.11	0.01
RD-98	SMRD-098-GW090210	U-238	Suspended	0.108	0.027	0.026	0.006
RD-98	SMRD-098-GW090210	U-238	Total	1.62	NA	0.12	NA
RS-18	SMRS-18-GW082310	Ac-227	Filtered	0 U	11	3.3	5.4
RS-18	SMRS-18-GW082310	Ac-227	Suspended	0.8 U	4.1	1.2	2
RS-18	SMRS-18-GW082310	Ac-227	Total	0.8	NA	3.5	NA
RS-18	SMRS-18-GW082310	Ac-228	Filtered	2.3	4.1	1.3	2
RS-18	SMRS-18-GW082310	Ac-228	Suspended	-1.3 U	3.3	1.8	1.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW082310	Ac-228	Total	1	NA	2.2	NA
RS-18	SMRS-18-GW082310	Ag-108	Filtered	-0.006 U R	0.098	0.029	0.047
RS-18	SMRS-18-GW082310	Ag-108	Suspended	-0.0001 U R	0.05	0.014	0.024
RS-18	SMRS-18-GW082310	Ag-108	Total	-0.006 R	NA	0.032	NA
RS-18	SMRS-18-GW082310	Ag-108m	Filtered	-0.07 U R	1.1	0.31	0.51
RS-18	SMRS-18-GW082310	Ag-108m	Suspended	-0.0009 U R	0.53	0.16	0.26
RS-18	SMRS-18-GW082310	Ag-108m	Total	-0.07 R	NA	0.35	NA
RS-18	SMRS-18-GW082310	Ba-133	Filtered	2.6 U R	12	3.6	5.9
RS-18	SMRS-18-GW082310	Ba-133	Suspended	1.1 U R	6	1.8	2.9
RS-18	SMRS-18-GW082310	Ba-133	Total	3.7 R	NA	4.1	NA
RS-18	SMRS-18-GW082310	Ba-137m	Filtered	-0.28 U	1.2	0.35	0.57
RS-18	SMRS-18-GW082310	Ba-137m	Suspended	0.18 U	0.64	0.19	0.3
RS-18	SMRS-18-GW082310	Ba-137m	Total	-0.1	NA	0.4	NA
RS-18	SMRS-18-GW082310	Bi-212	Filtered	-0.7 U	11	3.8	5.3
RS-18	SMRS-18-GW082310	Bi-212	Suspended	3.2	6.4	1.9	3
RS-18	SMRS-18-GW082310	Bi-212	Total	2.6	NA	4.2	NA
RS-18	SMRS-18-GW082310	Bi-214	Filtered	1.3 U	3	1.1	1.4
RS-18	SMRS-18-GW082310	Bi-214	Suspended	1.48	1.7	0.66	0.83
RS-18	SMRS-18-GW082310	Bi-214	Total	2.8	NA	1.3	NA
RS-18	SMRS-18-GW082310	Cd-113m	Filtered	200 U	13000	3900	6400
RS-18	SMRS-18-GW082310	Cd-113m	Suspended	-1100 U	7500	2200	3700
RS-18	SMRS-18-GW082310	Cd-113m	Total	-900	NA	4500	NA
RS-18	SMRS-18-GW082310	Cf-249	Filtered	-0.2 U R	5.6	1.6	2.7
RS-18	SMRS-18-GW082310	Cf-249	Suspended	-0.38 U R	3.1	0.91	1.5
RS-18	SMRS-18-GW082310	Cf-249	Total	-0.6 R	NA	1.9	NA
RS-18	SMRS-18-GW082310	Co-60	Filtered	0.1 U	1.2	0.34	0.55
RS-18	SMRS-18-GW082310	Co-60	Suspended	0.11 U	0.74	0.21	0.35
RS-18	SMRS-18-GW082310	Co-60	Total	0.21	NA	0.4	NA
RS-18	SMRS-18-GW082310	Cs-134	Filtered	-0.54 U	1.4	0.43	0.69
RS-18	SMRS-18-GW082310	Cs-134	Suspended	0.39 U	0.88	0.11	0.43
RS-18	SMRS-18-GW082310	Cs-134	Total	-0.15	NA	0.45	NA
RS-18	SMRS-18-GW082310	Cs-137	Filtered	-0.3 U	1.3	0.37	0.6
RS-18	SMRS-18-GW082310	Cs-137	Suspended	0.19 U	0.68	0.2	0.32
RS-18	SMRS-18-GW082310	Cs-137	Total	-0.11	NA	0.42	NA
RS-18	SMRS-18-GW082310	Eu-152	Filtered	0.6 U	3.4	1	1.7
RS-18	SMRS-18-GW082310	Eu-152	Suspended	-0.07 U	1.7	0.51	0.84
RS-18	SMRS-18-GW082310	Eu-152	Total	0.5	NA	1.1	NA
RS-18	SMRS-18-GW082310	Eu-154	Filtered	-1.4 U	9.7	2.8	4.6

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW082310	Eu-154	Suspended	-1.4 U	6.8	2	3.2
RS-18	SMRS-18-GW082310	Eu-154	Total	-2.8	NA	3.5	NA
RS-18	SMRS-18-GW082310	Eu-155	Filtered	-0.6 U	3.4	1	1.6
RS-18	SMRS-18-GW082310	Eu-155	Suspended	-0.08 U	1.3	0.38	0.62
RS-18	SMRS-18-GW082310	Eu-155	Total	-0.7	NA	1.1	NA
RS-18	SMRS-18-GW082310	gross_alpha	Filtered	12.3	0.46	0.79	0.25
RS-18	SMRS-18-GW082310	gross_alpha	Suspended	6.07	0.9	0.71	0.47
RS-18	SMRS-18-GW082310	gross_alpha	Total	18.4	NA	1.1	NA
RS-18	SMRS-18-GW082310	gross_beta	Filtered	6.5	2.4	1	1.4
RS-18	SMRS-18-GW082310	gross_beta	Suspended	4.81	0.85	0.46	0.49
RS-18	SMRS-18-GW082310	gross_beta	Total	11.3	NA	1.1	NA
RS-18	SMRS-18-GW082310	H-3	Filtered	-47 U	140	41	67
RS-18	SMRS-18-GW082310	H-3	Suspended	4 U	13	3.7	5.4
RS-18	SMRS-18-GW082310	H-3	Total	-43	NA	41	NA
RS-18	SMRS-18-GW082310	Ho-166m	Filtered	-0.54 U	2	0.59	0.95
RS-18	SMRS-18-GW082310	Ho-166m	Suspended	-0.44 U	1.2	0.35	0.56
RS-18	SMRS-18-GW082310	Ho-166m	Total	-0.99	NA	0.69	NA
RS-18	SMRS-18-GW082310	K-40	Filtered	9.8 U	23	5.9	11
RS-18	SMRS-18-GW082310	K-40	Suspended	9.2	12	3.7	5.7
RS-18	SMRS-18-GW082310	K-40	Total	19.1	NA	7	NA
RS-18	SMRS-18-GW082310	Na-22	Filtered	0.12 U	1.3	0.37	0.6
RS-18	SMRS-18-GW082310	Na-22	Suspended	-0.06 U	0.73	0.21	0.34
RS-18	SMRS-18-GW082310	Na-22	Total	0.07	NA	0.43	NA
RS-18	SMRS-18-GW082310	Nb-94	Filtered	0.19 U	1.1	0.31	0.5
RS-18	SMRS-18-GW082310	Nb-94	Suspended	-0.04 U	0.74	0.22	0.35
RS-18	SMRS-18-GW082310	Nb-94	Total	0.14	NA	0.38	NA
RS-18	SMRS-18-GW082310	Np-236	Filtered	-0.44 U	2.8	0.85	1.4
RS-18	SMRS-18-GW082310	Np-236	Suspended	0.15 U	1.2	0.36	0.6
RS-18	SMRS-18-GW082310	Np-236	Total	-0.29	NA	0.92	NA
RS-18	SMRS-18-GW082310	Np-239	Filtered	1 U	7.9	2.4	3.9
RS-18	SMRS-18-GW082310	Np-239	Suspended	0.5 U	3.5	1	1.7
RS-18	SMRS-18-GW082310	Np-239	Total	1.5	NA	2.6	NA
RS-18	SMRS-18-GW082310	Pa-231	Filtered	5 U	47	14	23
RS-18	SMRS-18-GW082310	Pa-231	Suspended	-1.2 U	26	7.8	13
RS-18	SMRS-18-GW082310	Pa-231	Total	3	NA	16	NA
RS-18	SMRS-18-GW082310	Pb-212	Filtered	0.38 U	2.9	0.94	1.4
RS-18	SMRS-18-GW082310	Pb-212	Suspended	0.12 U	1.2	0.35	0.57
RS-18	SMRS-18-GW082310	Pb-212	Total	0.495	NA	0.999	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW082310	Pb-214	Filtered	-0.8 U	2.8	1.1	1.4
RS-18	SMRS-18-GW082310	Pb-214	Suspended	1.49	1.4	0.52	0.68
RS-18	SMRS-18-GW082310	Pb-214	Total	0.7	NA	1.2	NA
RS-18	SMRS-18-GW082310	Sb-125	Filtered	-3.3 U	15	4.4	7.1
RS-18	SMRS-18-GW082310	Sb-125	Suspended	-0.05 U	6	1.8	2.9
RS-18	SMRS-18-GW082310	Sb-125	Total	-3.4	NA	4.7	NA
RS-18	SMRS-18-GW082310	Sn-126	Filtered	0.36 U	1.3	0.39	0.62
RS-18	SMRS-18-GW082310	Sn-126	Suspended	0.33	0.57	0.18	0.27
RS-18	SMRS-18-GW082310	Sn-126	Total	0.69	NA	0.43	NA
RS-18	SMRS-18-GW082310	Sr-90	Filtered	0.06	0.053	0.017	0.029
RS-18	SMRS-18-GW082310	Sr-90	Suspended	0.009 U	0.053	0.015	0.03
RS-18	SMRS-18-GW082310	Sr-90	Total	0.07	NA	0.023	NA
RS-18	SMRS-18-GW082310	Te-125m	Filtered	-0.8 U	3.4	1	1.6
RS-18	SMRS-18-GW082310	Te-125m	Suspended	-0.01 U	1.4	0.41	0.68
RS-18	SMRS-18-GW082310	Te-125m	Total	-0.8	NA	1.1	NA
RS-18	SMRS-18-GW082310	Th-231	Filtered	0.289	0.019	0.046	0.01
RS-18	SMRS-18-GW082310	Th-231	Suspended	0.0062 U	0.017	0.0063	0.0089
RS-18	SMRS-18-GW082310	Th-231	Total	0.295	NA	0.047	NA
RS-18	SMRS-18-GW082310	Th-234	Filtered	12.1	21	7	10
RS-18	SMRS-18-GW082310	Th-234	Suspended	-0.2 U	8.4	2.6	4.1
RS-18	SMRS-18-GW082310	Th-234	Total	11.9	NA	7.4	NA
RS-18	SMRS-18-GW082310	Tl-208	Filtered	-0.22 U	1.6	0.59	0.75
RS-18	SMRS-18-GW082310	Tl-208	Suspended	0.14 U	0.85	0.31	0.41
RS-18	SMRS-18-GW082310	Tl-208	Total	-0.08	NA	0.66	NA
RS-18	SMRS-18-GW082310	Tm-171	Filtered	50 U	420	130	210
RS-18	SMRS-18-GW082310	Tm-171	Suspended	-31 U	130	39	64
RS-18	SMRS-18-GW082310	Tm-171	Total	20	NA	130	NA
RS-18	SMRS-18-GW082310	U-233/234	Filtered	6.77	0.04	0.34	0.01
RS-18	SMRS-18-GW082310	U-233/234	Suspended	0.154	0.025	0.03	0.007
RS-18	SMRS-18-GW082310	U-233/234	Total	6.93	NA	0.35	NA
RS-18	SMRS-18-GW082310	U-235/236	Filtered	0.289	0.019	0.046	0.01
RS-18	SMRS-18-GW082310	U-235/236	Suspended	0.0062 U	0.017	0.0063	0.0089
RS-18	SMRS-18-GW082310	U-235/236	Total	0.295	NA	0.047	NA
RS-18	SMRS-18-GW082310	U-238	Filtered	6.65	0.03	0.34	0.01
RS-18	SMRS-18-GW082310	U-238	Suspended	0.123	0.014	0.026	0.007
RS-18	SMRS-18-GW082310	U-238	Total	6.77	NA	0.34	NA
WS-07	SMWS-07-GW082710	Ac-227	Filtered	-4.2 U	9.2	2.8	4.5
WS-07	SMWS-07-GW082710	Ac-227	Suspended	1.56	2.6	0.8	1.2

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW082710	Ac-227	Total	-2.7	NA	2.9	NA
WS-07	SMWS-07-GW082710	Ac-228	Filtered	3.4	4.7	1.5	2.2
WS-07	SMWS-07-GW082710	Ac-228	Suspended	1.46	2.4	0.73	1.1
WS-07	SMWS-07-GW082710	Ac-228	Total	4.9	NA	1.7	NA
WS-07	SMWS-07-GW082710	Ag-108	Filtered	0.003 U R	0.11	0.031	0.052
WS-07	SMWS-07-GW082710	Ag-108	Suspended	0.012 U R	0.049	0.014	0.023
WS-07	SMWS-07-GW082710	Ag-108	Total	0.015 R	NA	0.035	NA
WS-07	SMWS-07-GW082710	Ag-108m	Filtered	0.03 U R	1.2	0.34	0.55
WS-07	SMWS-07-GW082710	Ag-108m	Suspended	0.13 U R	0.53	0.16	0.25
WS-07	SMWS-07-GW082710	Ag-108m	Total	0.16 R	NA	0.37	NA
WS-07	SMWS-07-GW082710	Ba-133	Filtered	0.3 U R	15	4.4	7.3
WS-07	SMWS-07-GW082710	Ba-133	Suspended	-1.6 U R	6.1	1.8	2.9
WS-07	SMWS-07-GW082710	Ba-133	Total	-1.3 R	NA	4.8	NA
WS-07	SMWS-07-GW082710	Ba-137m	Filtered	1.43	1.3	0.43	0.62
WS-07	SMWS-07-GW082710	Ba-137m	Suspended	-0.12 U	0.74	0.27	0.35
WS-07	SMWS-07-GW082710	Ba-137m	Total	1.31	NA	0.51	NA
WS-07	SMWS-07-GW082710	Bi-212	Filtered	-1.1 U	12	3.4	5.6
WS-07	SMWS-07-GW082710	Bi-212	Suspended	1.8 U	5.4	1.6	2.5
WS-07	SMWS-07-GW082710	Bi-212	Total	0.7	NA	3.8	NA
WS-07	SMWS-07-GW082710	Bi-214	Filtered	4.6	2.8	1.3	1.3
WS-07	SMWS-07-GW082710	Bi-214	Suspended	1.87	1.3	0.5	0.59
WS-07	SMWS-07-GW082710	Bi-214	Total	6.5	NA	1.4	NA
WS-07	SMWS-07-GW082710	Cd-113m	Filtered	-1900 U	16000	4800	7800
WS-07	SMWS-07-GW082710	Cd-113m	Suspended	1400 U	6700	2000	3200
WS-07	SMWS-07-GW082710	Cd-113m	Total	-500	NA	5200	NA
WS-07	SMWS-07-GW082710	Cf-249	Filtered	-1 U R	6.5	1.9	3.1
WS-07	SMWS-07-GW082710	Cf-249	Suspended	-1.38 U R	3	0.92	1.5
WS-07	SMWS-07-GW082710	Cf-249	Total	-2.4 R	NA	2.1	NA
WS-07	SMWS-07-GW082710	Co-60	Filtered	0.05 U	1.8	0.51	0.83
WS-07	SMWS-07-GW082710	Co-60	Suspended	0.29 U	0.75	0.23	0.34
WS-07	SMWS-07-GW082710	Co-60	Total	0.34	NA	0.56	NA
WS-07	SMWS-07-GW082710	Cs-134	Filtered	-0.06 U	2.4	0.69	1.1
WS-07	SMWS-07-GW082710	Cs-134	Suspended	-0.13 U	0.77	0.23	0.37
WS-07	SMWS-07-GW082710	Cs-134	Total	-0.2	NA	0.73	NA
WS-07	SMWS-07-GW082710	Cs-137	Filtered	1.51	1.4	0.46	0.66
WS-07	SMWS-07-GW082710	Cs-137	Suspended	-0.13 U	0.78	0.28	0.37
WS-07	SMWS-07-GW082710	Cs-137	Total	1.38	NA	0.54	NA
WS-07	SMWS-07-GW082710	Eu-152	Filtered	2.07	3.2	0.99	1.5

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW082710	Eu-152	Suspended	0.31 U	1.8	0.52	0.84
WS-07	SMWS-07-GW082710	Eu-152	Total	2.4	NA	1.1	NA
WS-07	SMWS-07-GW082710	Eu-154	Filtered	2.5 U	12	3.5	5.6
WS-07	SMWS-07-GW082710	Eu-154	Suspended	0.7 U	5.1	1.5	2.4
WS-07	SMWS-07-GW082710	Eu-154	Total	3.2	NA	3.8	NA
WS-07	SMWS-07-GW082710	Eu-155	Filtered	1.14 U	3.1	0.94	1.5
WS-07	SMWS-07-GW082710	Eu-155	Suspended	0.17 U	1.2	0.34	0.56
WS-07	SMWS-07-GW082710	Eu-155	Total	1.3	NA	1	NA
WS-07	SMWS-07-GW082710	gross_alpha	Filtered	3.46	0.51	0.37	0.28
WS-07	SMWS-07-GW082710	gross_alpha	Suspended	0.26 U	0.5	0.15	0.27
WS-07	SMWS-07-GW082710	gross_alpha	Total	3.72	NA	0.41	NA
WS-07	SMWS-07-GW082710	gross_beta	Filtered	5.6	1.4	0.66	0.8
WS-07	SMWS-07-GW082710	gross_beta	Suspended	4.44	0.76	0.42	0.45
WS-07	SMWS-07-GW082710	gross_beta	Total	10	NA	0.78	NA
WS-07	SMWS-07-GW082710	H-3	Filtered	22 U	140	43	70
WS-07	SMWS-07-GW082710	H-3	Suspended	4.2 U R	22	6.2	9.8
WS-07	SMWS-07-GW082710	H-3	Total	26 R	NA	43	NA
WS-07	SMWS-07-GW082710	H-3_Total	Filtered	21.6	28	8.8	13
WS-07	SMWS-07-GW082710	H-3_Total	Suspended	4.2 U R	19	5.3	8.3
WS-07	SMWS-07-GW082710	H-3_Total	Total	26 R	NA	10	NA
WS-07	SMWS-07-GW082710	Ho-166m	Filtered	-0.52 U	2.3	0.67	1.1
WS-07	SMWS-07-GW082710	Ho-166m	Suspended	0.21 U	1	0.29	0.47
WS-07	SMWS-07-GW082710	Ho-166m	Total	-0.3	NA	0.73	NA
WS-07	SMWS-07-GW082710	K-40	Filtered	15.9	18	5.8	8.3
WS-07	SMWS-07-GW082710	K-40	Suspended	-6 U	11	7	5
WS-07	SMWS-07-GW082710	K-40	Total	9.9	NA	9	NA
WS-07	SMWS-07-GW082710	Na-22	Filtered	-0.23 U	1.6	0.45	0.72
WS-07	SMWS-07-GW082710	Na-22	Suspended	0.23 U	0.88	0.26	0.41
WS-07	SMWS-07-GW082710	Na-22	Total	0.003	NA	0.52	NA
WS-07	SMWS-07-GW082710	Nb-94	Filtered	0.13 U	1.1	0.31	0.5
WS-07	SMWS-07-GW082710	Nb-94	Suspended	0.23	0.49	0.15	0.23
WS-07	SMWS-07-GW082710	Nb-94	Total	0.36	NA	0.34	NA
WS-07	SMWS-07-GW082710	Np-236	Filtered	0.05 U	2.8	0.84	1.4
WS-07	SMWS-07-GW082710	Np-236	Suspended	0.11 U	1.2	0.36	0.59
WS-07	SMWS-07-GW082710	Np-236	Total	0.16	NA	0.91	NA
WS-07	SMWS-07-GW082710	Np-239	Filtered	2.6 U	6.6	2	3.2
WS-07	SMWS-07-GW082710	Np-239	Suspended	-0.002 U	3.6	1	1.7
WS-07	SMWS-07-GW082710	Np-239	Total	2.6	NA	2.3	NA

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW082710	Pa-231	Filtered	1 U	59	17	28
WS-07	SMWS-07-GW082710	Pa-231	Suspended	-2.9 U	26	7.7	13
WS-07	SMWS-07-GW082710	Pa-231	Total	-2	NA	19	NA
WS-07	SMWS-07-GW082710	Pb-212	Filtered	1.42	2.4	0.91	1.2
WS-07	SMWS-07-GW082710	Pb-212	Suspended	1.03	0.97	0.33	0.47
WS-07	SMWS-07-GW082710	Pb-212	Total	2.45	NA	0.97	NA
WS-07	SMWS-07-GW082710	Pb-214	Filtered	0.74 U	3.2	0.9	1.5
WS-07	SMWS-07-GW082710	Pb-214	Suspended	1.37	1.2	0.38	0.56
WS-07	SMWS-07-GW082710	Pb-214	Total	2.12	NA	0.98	NA
WS-07	SMWS-07-GW082710	Sb-125	Filtered	2.4 U	13	3.8	6.1
WS-07	SMWS-07-GW082710	Sb-125	Suspended	2 U	5.7	1.7	2.8
WS-07	SMWS-07-GW082710	Sb-125	Total	4.4	NA	4.1	NA
WS-07	SMWS-07-GW082710	Sn-126	Filtered	0.46 U	1.5	0.43	0.68
WS-07	SMWS-07-GW082710	Sn-126	Suspended	-0.001 U	0.74	0.21	0.35
WS-07	SMWS-07-GW082710	Sn-126	Total	0.46	NA	0.48	NA
WS-07	SMWS-07-GW082710	Sr-90	Filtered	0.092 U	0.19	0.057	0.11
WS-07	SMWS-07-GW082710	Sr-90	Suspended	0.107	0.14	0.046	0.085
WS-07	SMWS-07-GW082710	Sr-90	Total	0.199	NA	0.073	NA
WS-07	SMWS-07-GW082710	Te-125m	Filtered	0.55 U	2.9	0.87	1.4
WS-07	SMWS-07-GW082710	Te-125m	Suspended	0.46 U	1.3	0.4	0.64
WS-07	SMWS-07-GW082710	Te-125m	Total	1.01	NA	0.96	NA
WS-07	SMWS-07-GW082710	Th-231	Filtered	0.085	0.007	0.015	0.006
WS-07	SMWS-07-GW082710	Th-231	Suspended	0 U	0.018	0.0025	0.0097
WS-07	SMWS-07-GW082710	Th-231	Total	0.085	NA	0.015	NA
WS-07	SMWS-07-GW082710	Th-234	Filtered	0.7 U	23	7.1	11
WS-07	SMWS-07-GW082710	Th-234	Suspended	-1 U	8.2	2.3	4
WS-07	SMWS-07-GW082710	Th-234	Total	-0.3	NA	7.5	NA
WS-07	SMWS-07-GW082710	Tl-208	Filtered	-0.04 U	1.6	0.46	0.77
WS-07	SMWS-07-GW082710	Tl-208	Suspended	-0.7 U	1	1.2	0.5
WS-07	SMWS-07-GW082710	Tl-208	Total	-0.8	NA	1.3	NA
WS-07	SMWS-07-GW082710	Tm-171	Filtered	0 U	380	110	190
WS-07	SMWS-07-GW082710	Tm-171	Suspended	-163 R U	130	42	65
WS-07	SMWS-07-GW082710	Tm-171	Total	-160	NA	120	NA
WS-07	SMWS-07-GW082710	U-233/234	Filtered	1.36	0.015	0.077	0.005
WS-07	SMWS-07-GW082710	U-233/234	Suspended	0.018	0.033	0.014	0.011
WS-07	SMWS-07-GW082710	U-233/234	Total	1.37	NA	0.079	NA
WS-07	SMWS-07-GW082710	U-235/236	Filtered	0.085	0.007	0.015	0.006
WS-07	SMWS-07-GW082710	U-235/236	Suspended	0 U	0.018	0.0025	0.0097

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW082710	U-235/236	Total	0.085	NA	0.015	NA
WS-07	SMWS-07-GW082710	U-238	Filtered	1.06	0.015	0.064	0.005
WS-07	SMWS-07-GW082710	U-238	Suspended	0.0033 U	0.015	0.0077	0.0077
WS-07	SMWS-07-GW082710	U-238	Total	1.07	NA	0.065	NA

Notes:

The MDC and Critical Value were not calculated for the "total" fraction of the sample as per the Qualiy Assurance Project Plan.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter

MDC - minimum detectable concentration

NA - not applicable

NORM - naturally occurring radioactive material

TPU - total propagated uncertainty

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-31-GW032511	Ac-227	Filtered	-5.7 U	9.4	2.9	4.6
ES-31	SMES-31-GW032511	Ac-227	Suspended	0.002 U	2.8	0.82	1.3
ES-31	SMES-31-GW032511	Ac-227	Total	-5.7	NA	3	NA
ES-31	SMES-31-GW032511	Ac-228	Filtered	3.01	2.9	0.96	1.4
ES-31	SMES-31-GW032511	Ac-228	Suspended	0.93	1.7	0.53	0.81
ES-31	SMES-31-GW032511	Ac-228	Total	3.9	NA	1.1	NA
ES-31	SMES-31-GW032511	Ag-108	Filtered	0.0007 U R	0.075	0.022	0.036
ES-31	SMES-31-GW032511	Ag-108	Suspended	0.003 U R	0.039	0.012	0.019
ES-31	SMES-31-GW032511	Ag-108	Total	0.004 R	NA	0.024	NA
ES-31	SMES-31-GW032511	Ag-108m	Filtered	0.008 U R	0.8	0.23	0.38
ES-31	SMES-31-GW032511	Ag-108m	Suspended	0.03 U R	0.42	0.12	0.2
ES-31	SMES-31-GW032511	Ag-108m	Total	0.04 R	NA	0.26	NA
ES-31	SMES-31-GW032511	Ba-133	Filtered	3.6 U R	11	3.2	5.1
ES-31	SMES-31-GW032511	Ba-133	Suspended	1.3 U R	4.4	1.3	2.1
ES-31	SMES-31-GW032511	Ba-133	Total	4.9 R	NA	3.5	NA
ES-31	SMES-31-GW032511	Ba-137m	Filtered	0.06 U	0.99	0.28	0.47
ES-31	SMES-31-GW032511	Ba-137m	Suspended	-0.05 U	0.55	0.16	0.26
ES-31	SMES-31-GW032511	Ba-137m	Total	0.006	NA	0.33	NA
ES-31	SMES-31-GW032511	Bi-212	Filtered	1.1 U	8.7	2.4	4.1
ES-31	SMES-31-GW032511	Bi-212	Suspended	1.9	3.6	1.1	1.7
ES-31	SMES-31-GW032511	Bi-212	Total	3	NA	2.6	NA
ES-31	SMES-31-GW032511	Bi-214	Filtered	1.16 U	2.5	0.76	1.2
ES-31	SMES-31-GW032511	Bi-214	Suspended	1.49	1.4	0.63	0.66
ES-31	SMES-31-GW032511	Bi-214	Total	2.65	NA	0.99	NA
ES-31	SMES-31-GW032511	Cd-113m	Filtered	-0.6 U	14000	4100	6800
ES-31	SMES-31-GW032511	Cd-113m	Suspended	1200 U	4700	1400	2300
ES-31	SMES-31-GW032511	Cd-113m	Total	1200	NA	4300	NA
ES-31	SMES-31-GW032511	Cf-249	Filtered	-1.2 U R	5.5	1.6	2.6
ES-31	SMES-31-GW032511	Cf-249	Suspended	-0.36 U R	2.5	0.74	1.2
ES-31	SMES-31-GW032511	Cf-249	Total	-1.6 R	NA	1.8	NA
ES-31	SMES-31-GW032511	Co-60	Filtered	0.06 U	1.2	0.34	0.55
ES-31	SMES-31-GW032511	Co-60	Suspended	-0.06 U	0.65	0.19	0.3
ES-31	SMES-31-GW032511	Co-60	Total	0.004	NA	0.38	NA
ES-31	SMES-31-GW032511	Cs-134	Filtered	-0.27 U	1.3	0.39	0.63
ES-31	SMES-31-GW032511	Cs-134	Suspended	-0.17 U	0.66	0.2	0.32
ES-31	SMES-31-GW032511	Cs-134	Total	-0.44 SK	NA	0.44	NA
ES-31	SMES-31-GW032511	Cs-137	Filtered	0.06 U	1	0.3	0.49
ES-31	SMES-31-GW032511	Cs-137	Suspended	-0.05 U	0.58	0.17	0.28

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-31-GW032511	Cs-137	Total	0.007	NA	0.35	NA
ES-31	SMES-31-GW032511	Eu-152	Filtered	0.64 U	3.1	0.91	1.5
ES-31	SMES-31-GW032511	Eu-152	Suspended	-0.15 U	1.4	0.42	0.68
ES-31	SMES-31-GW032511	Eu-152	Total	0.5	NA	1	NA
ES-31	SMES-31-GW032511	Eu-154	Filtered	-2.2 U	9.6	2.8	4.5
ES-31	SMES-31-GW032511	Eu-154	Suspended	0.5 U J	4.3	1.2	2
ES-31	SMES-31-GW032511	Eu-154	Total	-1.7	NA	3.1	NA
ES-31	SMES-31-GW032511	Eu-155	Filtered	1.36 U	2.8	0.87	1.4
ES-31	SMES-31-GW032511	Eu-155	Suspended	-0.009 U	0.78	0.23	0.37
ES-31	SMES-31-GW032511	Eu-155	Total	1.35 SK	NA	0.89	NA
ES-31	SMES-31-GW032511	gross_alpha	Filtered	5.1	0.42	0.46	0.22
ES-31	SMES-31-GW032511	gross_alpha	Suspended	0.83	0.97	0.33	0.51
ES-31	SMES-31-GW032511	gross_alpha	Total	5.93	NA	0.57	NA
ES-31	SMES-31-GW032511	gross_beta	Filtered	2.07	1.2	0.44	0.7
ES-31	SMES-31-GW032511	gross_beta	Suspended	0.16 U	1	0.31	0.61
ES-31	SMES-31-GW032511	gross_beta	Total	2.23	NA	0.53	NA
ES-31	SMES-31-GW032511	H-3	Total	69	120	36	57
ES-31	SMES-31-GW032511	Ho-166m	Filtered	0.2 U	2	0.58	0.95
ES-31	SMES-31-GW032511	Ho-166m	Suspended	-0.22 U	0.97	0.29	0.46
ES-31	SMES-31-GW032511	Ho-166m	Total	-0.02 SK	NA	0.65	NA
ES-31	SMES-31-GW032511	K-40	Filtered	-3.5 U	17	5.5	8.2
ES-31	SMES-31-GW032511	K-40	Suspended	2.8 U	7.6	2	3.6
ES-31	SMES-31-GW032511	K-40	Total	-0.7	NA	5.9	NA
ES-31	SMES-31-GW032511	Na-22	Filtered	0.12 U	1.1	0.31	0.5
ES-31	SMES-31-GW032511	Na-22	Suspended	-0.06 U	0.62	0.18	0.29
ES-31	SMES-31-GW032511	Na-22	Total	0.06	NA	0.36	NA
ES-31	SMES-31-GW032511	Nb-94	Filtered	-0.22 U	1.1	0.32	0.52
ES-31	SMES-31-GW032511	Nb-94	Suspended	0.17 U	0.57	0.17	0.27
ES-31	SMES-31-GW032511	Nb-94	Total	-0.05	NA	0.36	NA
ES-31	SMES-31-GW032511	Np-236	Filtered	0.32 U	2.6	0.78	1.3
ES-31	SMES-31-GW032511	Np-236	Suspended	0.1 U	0.95	0.28	0.46
ES-31	SMES-31-GW032511	Np-236	Total	0.42 SK	NA	0.83	NA
ES-31	SMES-31-GW032511	Np-239	Filtered	0.8 U	5.5	1.6	2.6
ES-31	SMES-31-GW032511	Np-239	Suspended	-0.29 U	3	0.89	1.5
ES-31	SMES-31-GW032511	Np-239	Total	0.6	NA	1.8	NA
ES-31	SMES-31-GW032511	Pa-231	Filtered	-13 U	51	15	25
ES-31	SMES-31-GW032511	Pa-231	Suspended	4.4 U	20	6	9.7
ES-31	SMES-31-GW032511	Pa-231	Total	-8	NA	16	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-31-GW032511	Pb-212	Filtered	0.53 U	2.5	0.82	1.2
ES-31	SMES-31-GW032511	Pb-212	Suspended	-0.1 U	0.85	0.34	0.41
ES-31	SMES-31-GW032511	Pb-212	Total	0.43	NA	0.89	NA
ES-31	SMES-31-GW032511	Pb-214	Filtered	0.21 U	2.8	0.77	1.4
ES-31	SMES-31-GW032511	Pb-214	Suspended	0.42 U	1.1	0.31	0.53
ES-31	SMES-31-GW032511	Pb-214	Total	0.63	NA	0.83	NA
ES-31	SMES-31-GW032511	Sb-125	Filtered	1.5 U	11	3.2	5.2
ES-31	SMES-31-GW032511	Sb-125	Suspended	-0.1 U	4.7	1.4	2.3
ES-31	SMES-31-GW032511	Sb-125	Total	1.4 SK	NA	3.5	NA
ES-31	SMES-31-GW032511	Sn-126	Filtered	0.3 U	1.1	0.32	0.52
ES-31	SMES-31-GW032511	Sn-126	Suspended	0.24 U	0.7	0.21	0.34
ES-31	SMES-31-GW032511	Sn-126	Total	0.54	NA	0.39	NA
ES-31	SMES-31-GW032511	Sr-90	Filtered	0.035 U	0.14	0.042	0.079
ES-31	SMES-31-GW032511	Sr-90	Suspended	0.033 U	0.098	0.029	0.055
ES-31	SMES-31-GW032511	Sr-90	Total	0.068	NA	0.051	NA
ES-31	SMES-31-GW032511	Te-125m	Filtered	0.34 U	2.5	0.74	1.2
ES-31	SMES-31-GW032511	Te-125m	Suspended	-0.03 U	1.1	0.32	0.52
ES-31	SMES-31-GW032511	Te-125m	Total	0.31 SK	NA	0.8	NA
ES-31	SMES-31-GW032511	Th-231	Filtered	0.126	0.007	0.019	0.005
ES-31	SMES-31-GW032511	Th-231	Suspended	0.003 U	0.017	0.0041	0.0052
ES-31	SMES-31-GW032511	Th-231	Total	0.129	NA	0.019	NA
ES-31	SMES-31-GW032511	Th-234	Filtered	15	21	7.1	10
ES-31	SMES-31-GW032511	Th-234	Suspended	-0.05 U	4.2	1.2	2
ES-31	SMES-31-GW032511	Th-234	Total	14.9	NA	7.2	NA
ES-31	SMES-31-GW032511	Tl-208	Filtered	0.14 U	1.4	0.47	0.66
ES-31	SMES-31-GW032511	Tl-208	Suspended	-0.04 U	0.59	0.19	0.28
ES-31	SMES-31-GW032511	Tl-208	Total	0.09	NA	0.51	NA
ES-31	SMES-31-GW032511	Tm-171	Filtered	7 U	260	78	130
ES-31	SMES-31-GW032511	Tm-171	Suspended	37 U	81	25	39
ES-31	SMES-31-GW032511	Tm-171	Total	44	NA	82	NA
ES-31	SMES-31-GW032511	U-233/234	Filtered	3.13	0.01	0.15	0.004
ES-31	SMES-31-GW032511	U-233/234	Suspended	0.019	0.013	0.008	0.0042
ES-31	SMES-31-GW032511	U-233/234	Total	3.15	NA	0.15	NA
ES-31	SMES-31-GW032511	U-235/236	Filtered	0.126	0.007	0.019	0.005
ES-31	SMES-31-GW032511	U-235/236	Suspended	0.003 U	0.017	0.0041	0.0052
ES-31	SMES-31-GW032511	U-235/236	Total	0.129	NA	0.019	NA
ES-31	SMES-31-GW032511	U-238	Filtered	2.86	0.02	0.14	0.007
ES-31	SMES-31-GW032511	U-238	Suspended	0.007	0.0055	0.0054	0.0042

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
ES-31	SMES-31-GW032511	U-238	Total	2.87	NA	0.14	NA
OS-10	SOOS-10-GW041811	Ac-227	Filtered	0.2 U	12	3.4	5.7
OS-10	SOOS-10-GW041811	Ac-227	Suspended	0.3 U	10	3.1	5.1
OS-10	SOOS-10-GW041811	Ac-227	Total	0.5	NA	4.6	NA
OS-10	SOOS-10-GW041811	Ac-228	Filtered	3.6	3.6	1.2	1.7
OS-10	SOOS-10-GW041811	Ac-228	Suspended	10.4	2.6	1.1	1.2
OS-10	SOOS-10-GW041811	Ac-228	Total	14	NA	1.6	NA
OS-10	SOOS-10-GW041811	Ag-108	Filtered	0 U R	0.1	0.03	0.049
OS-10	SOOS-10-GW041811	Ag-108	Suspended	0.006 U R	0.045	0.013	0.022
OS-10	SOOS-10-GW041811	Ag-108	Total	0.006 R	NA	0.033	NA
OS-10	SOOS-10-GW041811	Ag-108m	Filtered	0 U R	1.1	0.32	0.53
OS-10	SOOS-10-GW041811	Ag-108m	Suspended	0.06 U R	0.49	0.14	0.23
OS-10	SOOS-10-GW041811	Ag-108m	Total	0.06 R	NA	0.35	NA
OS-10	SOOS-10-GW041811	Ba-133	Filtered	2 U R	11	3.3	5.4
OS-10	SOOS-10-GW041811	Ba-133	Suspended	-1.2 U R	7	2.1	3.4
OS-10	SOOS-10-GW041811	Ba-133	Total	0.8 R	NA	3.9	NA
OS-10	SOOS-10-GW041811	Ba-137m	Filtered	-0.31 U	1.1	0.32	0.51
OS-10	SOOS-10-GW041811	Ba-137m	Suspended	1.43	0.73	0.25	0.35
OS-10	SOOS-10-GW041811	Ba-137m	Total	1.12	NA	0.41	NA
OS-10	SOOS-10-GW041811	Bi-212	Filtered	5.3	8.9	2.7	4.2
OS-10	SOOS-10-GW041811	Bi-212	Suspended	14.4	5.1	2.8	2.4
OS-10	SOOS-10-GW041811	Bi-212	Total	19.7	NA	3.9	NA
OS-10	SOOS-10-GW041811	Bi-214	Filtered	0.35 U	2.9	0.79	1.4
OS-10	SOOS-10-GW041811	Bi-214	Suspended	4.11	1.9	0.83	0.92
OS-10	SOOS-10-GW041811	Bi-214	Total	4.5	NA	1.1	NA
OS-10	SOOS-10-GW041811	Cd-113m	Filtered	2000 U	14000	4100	6600
OS-10	SOOS-10-GW041811	Cd-113m	Suspended	-10 U	8200	2400	4000
OS-10	SOOS-10-GW041811	Cd-113m	Total	1900	NA	4700	NA
OS-10	SOOS-10-GW041811	Cf-249	Filtered	1.6 U R	5.1	1.5	2.5
OS-10	SOOS-10-GW041811	Cf-249	Suspended	-1.1 U R	3.4	1	1.6
OS-10	SOOS-10-GW041811	Cf-249	Total	0.5 R	NA	1.8	NA
OS-10	SOOS-10-GW041811	Co-60	Filtered	0.01 U	1.3	0.36	0.6
OS-10	SOOS-10-GW041811	Co-60	Suspended	-0.005 U	0.8	0.23	0.37
OS-10	SOOS-10-GW041811	Co-60	Total	0.009	NA	0.43	NA
OS-10	SOOS-10-GW041811	Cs-134	Filtered	0.05 U	1.2	0.34	0.56
OS-10	SOOS-10-GW041811	Cs-134	Suspended	1 SK	0.52	0.21	0.24
OS-10	SOOS-10-GW041811	Cs-134	Total	1.05	NA	0.4	NA
OS-10	SOOS-10-GW041811	Cs-137	Filtered	-0.33 U	1.1	0.34	0.54

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-10	SOOS-10-GW041811	Cs-137	Suspended	1.51	0.78	0.27	0.37
OS-10	SOOS-10-GW041811	Cs-137	Total	1.18	NA	0.43	NA
OS-10	SOOS-10-GW041811	Eu-152	Filtered	-1.1 U	3.6	1.1	1.7
OS-10	SOOS-10-GW041811	Eu-152	Suspended	-0.37 U	2.2	0.64	1
OS-10	SOOS-10-GW041811	Eu-152	Total	-1.4	NA	1.2	NA
OS-10	SOOS-10-GW041811	Eu-154	Filtered	0.04 U	7.5	2.1	3.4
OS-10	SOOS-10-GW041811	Eu-154	Suspended	-1.8 U	7.4	2.2	3.6
OS-10	SOOS-10-GW041811	Eu-154	Total	-1.7	NA	3	NA
OS-10	SOOS-10-GW041811	Eu-155	Filtered	1 U	3.4	1	1.7
OS-10	SOOS-10-GW041811	Eu-155	Suspended	0.56 U	1.3	0.39	0.63
OS-10	SOOS-10-GW041811	Eu-155	Total	1.6	NA	1.1	NA
OS-10	SOOS-10-GW041811	gross_alpha	Filtered	1.45	0.59	0.3	0.3
OS-10	SOOS-10-GW041811	gross_alpha	Suspended	135	10	12	5
OS-10	SOOS-10-GW041811	gross_alpha	Total	136	NA	12	NA
OS-10	SOOS-10-GW041811	gross_beta	Filtered	6.15	1.3	0.65	0.77
OS-10	SOOS-10-GW041811	gross_beta	Suspended	139	8.8	7.8	5
OS-10	SOOS-10-GW041811	gross_beta	Total	145	NA	7.9	NA
OS-10	SOOS-10-GW041811	H-3	Total	63 U	150	44	72
OS-10	SOOS-10-GW041811	Ho-166m	Filtered	-0.16 U	1.7	0.5	0.82
OS-10	SOOS-10-GW041811	Ho-166m	Suspended	-0.01 U	1	0.3	0.49
OS-10	SOOS-10-GW041811	Ho-166m	Total	-0.18	NA	0.58	NA
OS-10	SOOS-10-GW041811	K-40	Filtered	-10.9 U	20	9	9.4
OS-10	SOOS-10-GW041811	K-40	Suspended	93.1	9.6	5.8	4.5
OS-10	SOOS-10-GW041811	K-40	Total	82	NA	11	NA
OS-10	SOOS-10-GW041811	Na-22	Filtered	0.22 U	1.1	0.33	0.52
OS-10	SOOS-10-GW041811	Na-22	Suspended	0.01 U	0.83	0.24	0.39
OS-10	SOOS-10-GW041811	Na-22	Total	0.23	NA	0.4	NA
OS-10	SOOS-10-GW041811	Nb-94	Filtered	-0.37 U	1.2	0.35	0.55
OS-10	SOOS-10-GW041811	Nb-94	Suspended	0.4	0.77	0.23	0.37
OS-10	SOOS-10-GW041811	Nb-94	Total	0.03	NA	0.42	NA
OS-10	SOOS-10-GW041811	Np-236	Filtered	0.19 U	2.8	0.83	1.4
OS-10	SOOS-10-GW041811	Np-236	Suspended	0.38 U	1.2	0.36	0.59
OS-10	SOOS-10-GW041811	Np-236	Total	0.56	NA	0.9	NA
OS-10	SOOS-10-GW041811	Np-239	Filtered	1.9 U	8.1	2.4	3.9
OS-10	SOOS-10-GW041811	Np-239	Suspended	0.1 U	4.6	1.4	2.2
OS-10	SOOS-10-GW041811	Np-239	Total	2	NA	2.8	NA
OS-10	SOOS-10-GW041811	Pa-231	Filtered	13 U	51	15	25
OS-10	SOOS-10-GW041811	Pa-231	Suspended	6.9 U	29	8.7	14

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-10	SOOS-10-GW041811	Pa-231	Total	20	NA	18	NA
OS-10	SOOS-10-GW041811	Pb-212	Filtered	0.92 U	2.2	0.66	1.1
OS-10	SOOS-10-GW041811	Pb-212	Suspended	8.32	1.3	0.67	0.65
OS-10	SOOS-10-GW041811	Pb-212	Total	9.24	NA	0.95	NA
OS-10	SOOS-10-GW041811	Pb-214	Filtered	0.84 U	2.4	0.86	1.2
OS-10	SOOS-10-GW041811	Pb-214	Suspended	4.88	1.6	0.66	0.78
OS-10	SOOS-10-GW041811	Pb-214	Total	5.7	NA	1.1	NA
OS-10	SOOS-10-GW041811	Sb-125	Filtered	-0.9 U	13	3.8	6.2
OS-10	SOOS-10-GW041811	Sb-125	Suspended	-0.09 U	6	1.8	2.9
OS-10	SOOS-10-GW041811	Sb-125	Total	-1	NA	4.2	NA
OS-10	SOOS-10-GW041811	Sn-126	Filtered	0.22 U	1.2	0.37	0.59
OS-10	SOOS-10-GW041811	Sn-126	Suspended	0.44	0.91	0.28	0.44
OS-10	SOOS-10-GW041811	Sn-126	Total	0.66	NA	0.46	NA
OS-10	SOOS-10-GW041811	Sr-90	Filtered	0.079	0.13	0.039	0.072
OS-10	SOOS-10-GW041811	Sr-90	Suspended	0.047 U	0.12	0.037	0.066
OS-10	SOOS-10-GW041811	Sr-90	Total	0.126	NA	0.054	NA
OS-10	SOOS-10-GW041811	Te-125m	Filtered	-0.2 U	2.9	0.87	1.4
OS-10	SOOS-10-GW041811	Te-125m	Suspended	-0.02 U	1.4	0.41	0.67
OS-10	SOOS-10-GW041811	Te-125m	Total	-0.22	NA	0.96	NA
OS-10	SOOS-10-GW041811	Th-231	Filtered	0.0007 U	0.023	0.0044	0.0071
OS-10	SOOS-10-GW041811	Th-231	Suspended	0.177	0.044	0.033	0.016
OS-10	SOOS-10-GW041811	Th-231	Total	0.177	NA	0.033	NA
OS-10	SOOS-10-GW041811	Th-234	Filtered	-4.5 U	23	7.8	11
OS-10	SOOS-10-GW041811	Th-234	Suspended	7.9	8.6	2	4.2
OS-10	SOOS-10-GW041811	Th-234	Total	3.4	NA	8	NA
OS-10	SOOS-10-GW041811	Tl-208	Filtered	0.03 U	1.4	0.5	0.69
OS-10	SOOS-10-GW041811	Tl-208	Suspended	3.1	0.75	0.36	0.36
OS-10	SOOS-10-GW041811	Tl-208	Total	3.13	NA	0.62	NA
OS-10	SOOS-10-GW041811	Tm-171	Filtered	120 U	350	110	170
OS-10	SOOS-10-GW041811	Tm-171	Suspended	72	130	40	64
OS-10	SOOS-10-GW041811	Tm-171	Total	190	NA	110	NA
OS-10	SOOS-10-GW041811	U-233/234	Filtered	0.442	0.007	0.04	0.006
OS-10	SOOS-10-GW041811	U-233/234	Suspended	3.23	0.03	0.18	0.009
OS-10	SOOS-10-GW041811	U-233/234	Total	3.67	NA	0.18	NA
OS-10	SOOS-10-GW041811	U-235/236	Filtered	0.0007 U	0.023	0.0044	0.0071
OS-10	SOOS-10-GW041811	U-235/236	Suspended	0.177	0.044	0.033	0.016
OS-10	SOOS-10-GW041811	U-235/236	Total	0.177	NA	0.033	NA
OS-10	SOOS-10-GW041811	U-238	Filtered	0.249	0.018	0.029	0.006

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-10	SOOS-10-GW041811	U-238	Suspended	2.83	0.03	0.16	0.009
OS-10	SOOS-10-GW041811	U-238	Total	3.08	NA	0.16	NA
OS-2	SOOS-02-GW041811	Ac-227	Filtered	2 U	8.7	2.6	4.3
OS-2	SOOS-02-GW041811	Ac-227	Suspended	-0.9 U	4.2	1.3	2
OS-2	SOOS-02-GW041811	Ac-227	Total	1.1	NA	2.9	NA
OS-2	SOOS-02-GW041811	Ac-228	Filtered	2.6	3.1	1	1.5
OS-2	SOOS-02-GW041811	Ac-228	Suspended	-0.07 U	2.9	0.82	1.4
OS-2	SOOS-02-GW041811	Ac-228	Total	2.5	NA	1.3	NA
OS-2	SOOS-02-GW041811	Ag-108	Filtered	0.049 R	0.076	0.023	0.036
OS-2	SOOS-02-GW041811	Ag-108	Suspended	0.001 U R	0.052	0.015	0.025
OS-2	SOOS-02-GW041811	Ag-108	Total	0.051 R	NA	0.028	NA
OS-2	SOOS-02-GW041811	Ag-108m	Filtered	0.53 R	0.81	0.25	0.39
OS-2	SOOS-02-GW041811	Ag-108m	Suspended	0.01 U R	0.56	0.16	0.27
OS-2	SOOS-02-GW041811	Ag-108m	Total	0.54 R	NA	0.3	NA
OS-2	SOOS-02-GW041811	Ba-133	Filtered	-2.7 U R	12	3.7	5.9
OS-2	SOOS-02-GW041811	Ba-133	Suspended	-1.2 U R	5.1	1.5	2.4
OS-2	SOOS-02-GW041811	Ba-133	Total	-4 R	NA	4	NA
OS-2	SOOS-02-GW041811	Ba-137m	Filtered	0.13 U	1	0.3	0.49
OS-2	SOOS-02-GW041811	Ba-137m	Suspended	0.31	0.64	0.2	0.31
OS-2	SOOS-02-GW041811	Ba-137m	Total	0.44	NA	0.36	NA
OS-2	SOOS-02-GW041811	Bi-212	Filtered	-1.6 U	9	5.1	4.3
OS-2	SOOS-02-GW041811	Bi-212	Suspended	1.4 U	5.5	1.6	2.6
OS-2	SOOS-02-GW041811	Bi-212	Total	-0.2	NA	5.4	NA
OS-2	SOOS-02-GW041811	Bi-214	Filtered	1.1 U	2.7	1	1.3
OS-2	SOOS-02-GW041811	Bi-214	Suspended	1.4	1.8	0.74	0.85
OS-2	SOOS-02-GW041811	Bi-214	Total	2.5	NA	1.3	NA
OS-2	SOOS-02-GW041811	Cd-113m	Filtered	200 U	13000	3700	6100
OS-2	SOOS-02-GW041811	Cd-113m	Suspended	0 U	7300	2100	3500
OS-2	SOOS-02-GW041811	Cd-113m	Total	200	NA	4300	NA
OS-2	SOOS-02-GW041811	Cf-249	Filtered	-1.6 U R	5.8	1.8	2.8
OS-2	SOOS-02-GW041811	Cf-249	Suspended	0.06 U R	3.3	0.97	1.6
OS-2	SOOS-02-GW041811	Cf-249	Total	-1.6 R	NA	2	NA
OS-2	SOOS-02-GW041811	Co-60	Filtered	0.07 U	1.2	0.33	0.53
OS-2	SOOS-02-GW041811	Co-60	Suspended	0 U	0.83	0.24	0.39
OS-2	SOOS-02-GW041811	Co-60	Total	0.07	NA	0.4	NA
OS-2	SOOS-02-GW041811	Cs-134	Filtered	-0.37 U	1.3	0.38	0.61
OS-2	SOOS-02-GW041811	Cs-134	Suspended	0 U	1	0.31	0.51
OS-2	SOOS-02-GW041811	Cs-134	Total	-0.37	NA	0.49	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-2	SOOS-02-GW041811	Cs-137	Filtered	0.14 U	1.1	0.32	0.52
OS-2	SOOS-02-GW041811	Cs-137	Suspended	0.33	0.68	0.21	0.32
OS-2	SOOS-02-GW041811	Cs-137	Total	0.47	NA	0.38	NA
OS-2	SOOS-02-GW041811	Eu-152	Filtered	-0.27 U	3.3	0.98	1.6
OS-2	SOOS-02-GW041811	Eu-152	Suspended	-0.16 U	1.7	0.51	0.83
OS-2	SOOS-02-GW041811	Eu-152	Total	-0.4	NA	1.1	NA
OS-2	SOOS-02-GW041811	Eu-154	Filtered	-0.2 U	7.7	2.2	3.6
OS-2	SOOS-02-GW041811	Eu-154	Suspended	-1.2 U	5.6	1.7	2.6
OS-2	SOOS-02-GW041811	Eu-154	Total	-1.3	NA	2.7	NA
OS-2	SOOS-02-GW041811	Eu-155	Filtered	0.88 U	2.8	0.84	1.4
OS-2	SOOS-02-GW041811	Eu-155	Suspended	0.009 U	1.2	0.34	0.57
OS-2	SOOS-02-GW041811	Eu-155	Total	0.89	NA	0.91	NA
OS-2	SOOS-02-GW041811	gross_alpha	Filtered	1.58	0.52	0.28	0.27
OS-2	SOOS-02-GW041811	gross_alpha	Suspended	0.65	0.46	0.18	0.24
OS-2	SOOS-02-GW041811	gross_alpha	Total	2.22	NA	0.34	NA
OS-2	SOOS-02-GW041811	gross_beta	Filtered	0.69	1	0.34	0.61
OS-2	SOOS-02-GW041811	gross_beta	Suspended	-0.07 U	0.83	0.24	0.49
OS-2	SOOS-02-GW041811	gross_beta	Total	0.62	NA	0.41	NA
OS-2	SOOS-02-GW041811	H-3	Total	26 U	150	43	71
OS-2	SOOS-02-GW041811	Ho-166m	Filtered	-0.2 U	1.8	0.51	0.83
OS-2	SOOS-02-GW041811	Ho-166m	Suspended	0.39 U	1.1	0.33	0.51
OS-2	SOOS-02-GW041811	Ho-166m	Total	0.2	NA	0.61	NA
OS-2	SOOS-02-GW041811	K-40	Filtered	-6.8 U	17	7.3	8.2
OS-2	SOOS-02-GW041811	K-40	Suspended	-6.3 U	11	5.8	5.3
OS-2	SOOS-02-GW041811	K-40	Total	-13	NA	9.3	NA
OS-2	SOOS-02-GW041811	Na-22	Filtered	-0.04 U	1.1	0.32	0.52
OS-2	SOOS-02-GW041811	Na-22	Suspended	-0.3 U	0.69	0.21	0.32
OS-2	SOOS-02-GW041811	Na-22	Total	-0.34	NA	0.38	NA
OS-2	SOOS-02-GW041811	Nb-94	Filtered	-0.24 U	1.1	0.31	0.5
OS-2	SOOS-02-GW041811	Nb-94	Suspended	0.06 U	0.69	0.2	0.33
OS-2	SOOS-02-GW041811	Nb-94	Total	-0.18	NA	0.37	NA
OS-2	SOOS-02-GW041811	Np-236	Filtered	-0.76 U	2.7	0.82	1.3
OS-2	SOOS-02-GW041811	Np-236	Suspended	-0.04 U	1.1	0.33	0.55
OS-2	SOOS-02-GW041811	Np-236	Total	-0.81	NA	0.88	NA
OS-2	SOOS-02-GW041811	Np-239	Filtered	0.2 U	6.6	1.9	3.2
OS-2	SOOS-02-GW041811	Np-239	Suspended	0.53 U	3.1	0.92	1.5
OS-2	SOOS-02-GW041811	Np-239	Total	0.8	NA	2.2	NA
OS-2	SOOS-02-GW041811	Pa-231	Filtered	13 U	49	15	24

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-2	SOOS-02-GW041811	Pa-231	Suspended	-0.3 U	28	8.1	13
OS-2	SOOS-02-GW041811	Pa-231	Total	13	NA	17	NA
OS-2	SOOS-02-GW041811	Pb-212	Filtered	-0.13 U	2.2	0.63	1.1
OS-2	SOOS-02-GW041811	Pb-212	Suspended	-0.03 U	1	0.32	0.5
OS-2	SOOS-02-GW041811	Pb-212	Total	-0.16	NA	0.71	NA
OS-2	SOOS-02-GW041811	Pb-214	Filtered	0.73 U	2.7	0.75	1.3
OS-2	SOOS-02-GW041811	Pb-214	Suspended	0.09 U	1.5	0.52	0.72
OS-2	SOOS-02-GW041811	Pb-214	Total	0.82	NA	0.92	NA
OS-2	SOOS-02-GW041811	Sb-125	Filtered	-0.7 U	12	3.6	5.9
OS-2	SOOS-02-GW041811	Sb-125	Suspended	-0.004 U	5.4	1.6	2.6
OS-2	SOOS-02-GW041811	Sb-125	Total	-0.7	NA	3.9	NA
OS-2	SOOS-02-GW041811	Sn-126	Filtered	-0.12 U	1.3	0.38	0.62
OS-2	SOOS-02-GW041811	Sn-126	Suspended	0.19 U	0.82	0.24	0.39
OS-2	SOOS-02-GW041811	Sn-126	Total	0.07	NA	0.45	NA
OS-2	SOOS-02-GW041811	Sr-90	Filtered	0.04 U	0.087	0.026	0.05
OS-2	SOOS-02-GW041811	Sr-90	Suspended	0.025 U	0.058	0.018	0.031
OS-2	SOOS-02-GW041811	Sr-90	Total	0.065	NA	0.032	NA
OS-2	SOOS-02-GW041811	Te-125m	Filtered	-0.16 U	2.8	0.83	1.4
OS-2	SOOS-02-GW041811	Te-125m	Suspended	-0.001 U	1.3	0.37	0.61
OS-2	SOOS-02-GW041811	Te-125m	Total	-0.16	NA	0.9	NA
OS-2	SOOS-02-GW041811	Th-231	Filtered	0.0087	0.0078	0.005	0.006
OS-2	SOOS-02-GW041811	Th-231	Suspended	0.0029 U	0.016	0.004	0.0051
OS-2	SOOS-02-GW041811	Th-231	Total	0.0116	NA	0.0064	NA
OS-2	SOOS-02-GW041811	Th-234	Filtered	4.4 U	21	6.9	10
OS-2	SOOS-02-GW041811	Th-234	Suspended	0.3 U	7.6	2.5	3.7
OS-2	SOOS-02-GW041811	Th-234	Total	4.7	NA	7.4	NA
OS-2	SOOS-02-GW041811	Tl-208	Filtered	-0.05 U	1.3	0.41	0.61
OS-2	SOOS-02-GW041811	Tl-208	Suspended	0.76	0.77	0.33	0.37
OS-2	SOOS-02-GW041811	Tl-208	Total	0.71	NA	0.52	NA
OS-2	SOOS-02-GW041811	Tm-171	Filtered	-10 U	380	110	190
OS-2	SOOS-02-GW041811	Tm-171	Suspended	14 U	120	35	57
OS-2	SOOS-02-GW041811	Tm-171	Total	-0.4	NA	120	NA
OS-2	SOOS-02-GW041811	U-233/234	Filtered	0.432	0.019	0.037	0.007
OS-2	SOOS-02-GW041811	U-233/234	Suspended	0.026	0.019	0.0095	0.0071
OS-2	SOOS-02-GW041811	U-233/234	Total	0.458	NA	0.038	NA
OS-2	SOOS-02-GW041811	U-235/236	Filtered	0.0087	0.0078	0.005	0.006
OS-2	SOOS-02-GW041811	U-235/236	Suspended	0.0029 U	0.016	0.004	0.0051
OS-2	SOOS-02-GW041811	U-235/236	Total	0.0116	NA	0.0064	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-2	SOOS-02-GW041811	U-238	Filtered	0.083	0.006	0.015	0.005
OS-2	SOOS-02-GW041811	U-238	Suspended	0.0059	0.0053	0.0052	0.0041
OS-2	SOOS-02-GW041811	U-238	Total	0.089	NA	0.016	NA
OS-3	SOOS-03-GW042111	Ac-227	Filtered	-3.4 U	9.1	2.7	4.4
OS-3	SOOS-03-GW042111	Ac-227	Suspended	-0.08 U	4.3	1.3	2.1
OS-3	SOOS-03-GW042111	Ac-227	Total	-3.5	NA	3	NA
OS-3	SOOS-03-GW042111	Ac-228	Filtered	4.4	4.4	1.5	2
OS-3	SOOS-03-GW042111	Ac-228	Suspended	1.75	2.5	0.79	1.2
OS-3	SOOS-03-GW042111	Ac-228	Total	6.2	NA	1.7	NA
OS-3	SOOS-03-GW042111	Ag-108	Filtered	-0.033 U R	0.13	0.037	0.06
OS-3	SOOS-03-GW042111	Ag-108	Suspended	0 U R	0.061	0.018	0.029
OS-3	SOOS-03-GW042111	Ag-108	Total	-0.033 R	NA	0.041	NA
OS-3	SOOS-03-GW042111	Ag-108m	Filtered	-0.36 U R	1.4	0.4	0.64
OS-3	SOOS-03-GW042111	Ag-108m	Suspended	0 U R	0.65	0.19	0.31
OS-3	SOOS-03-GW042111	Ag-108m	Total	-0.36 R	NA	0.44	NA
OS-3	SOOS-03-GW042111	Ba-133	Filtered	-0.2 U R	14	4.1	6.8
OS-3	SOOS-03-GW042111	Ba-133	Suspended	0.4 U R	6.9	2	3.3
OS-3	SOOS-03-GW042111	Ba-133	Total	0.2 R	NA	4.6	NA
OS-3	SOOS-03-GW042111	Ba-137m	Filtered	0.04 U	1.2	0.33	0.53
OS-3	SOOS-03-GW042111	Ba-137m	Suspended	0.03 U	0.67	0.19	0.31
OS-3	SOOS-03-GW042111	Ba-137m	Total	0.07	NA	0.38	NA
OS-3	SOOS-03-GW042111	Bi-212	Filtered	0.2 U	9.2	2.6	4.2
OS-3	SOOS-03-GW042111	Bi-212	Suspended	3.8	5.2	1.6	2.4
OS-3	SOOS-03-GW042111	Bi-212	Total	4	NA	3	NA
OS-3	SOOS-03-GW042111	Bi-214	Filtered	0.4 U	3.7	1	1.8
OS-3	SOOS-03-GW042111	Bi-214	Suspended	1.73	1.6	0.61	0.78
OS-3	SOOS-03-GW042111	Bi-214	Total	2.1	NA	1.2	NA
OS-3	SOOS-03-GW042111	Cd-113m	Filtered	3500 U	17000	5000	8000
OS-3	SOOS-03-GW042111	Cd-113m	Suspended	1800 U	7700	2300	3700
OS-3	SOOS-03-GW042111	Cd-113m	Total	5300	NA	5500	NA
OS-3	SOOS-03-GW042111	Cf-249	Filtered	0.08 U R	6.9	2	3.3
OS-3	SOOS-03-GW042111	Cf-249	Suspended	0.19 U R	3.3	0.95	1.6
OS-3	SOOS-03-GW042111	Cf-249	Total	0.3 R	NA	2.2	NA
OS-3	SOOS-03-GW042111	Co-60	Filtered	0.22 U	1.6	0.46	0.74
OS-3	SOOS-03-GW042111	Co-60	Suspended	-0.08 U	0.82	0.23	0.37
OS-3	SOOS-03-GW042111	Co-60	Total	0.13	NA	0.52	NA
OS-3	SOOS-03-GW042111	Cs-134	Filtered	-0.33 U	0.87	0.26	0.39
OS-3	SOOS-03-GW042111	Cs-134	Suspended	-0.008 U	0.73	0.21	0.35

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-3	SOOS-03-GW042111	Cs-134	Total	-0.34	NA	0.33	NA
OS-3	SOOS-03-GW042111	Cs-137	Filtered	0.04 U	1.2	0.34	0.56
OS-3	SOOS-03-GW042111	Cs-137	Suspended	0.04 U	0.71	0.2	0.33
OS-3	SOOS-03-GW042111	Cs-137	Total	0.08	NA	0.4	NA
OS-3	SOOS-03-GW042111	Eu-152	Filtered	-0.1 U	4.2	1.2	2
OS-3	SOOS-03-GW042111	Eu-152	Suspended	-0.13 U	1.8	0.52	0.86
OS-3	SOOS-03-GW042111	Eu-152	Total	-0.2	NA	1.3	NA
OS-3	SOOS-03-GW042111	Eu-154	Filtered	-1 U	12	3.4	5.5
OS-3	SOOS-03-GW042111	Eu-154	Suspended	-1.1 U	6.8	2	3.2
OS-3	SOOS-03-GW042111	Eu-154	Total	-2.1	NA	3.9	NA
OS-3	SOOS-03-GW042111	Eu-155	Filtered	0.54 U	3	0.89	1.4
OS-3	SOOS-03-GW042111	Eu-155	Suspended	0.15 U	1.4	0.42	0.69
OS-3	SOOS-03-GW042111	Eu-155	Total	0.69	NA	0.99	NA
OS-3	SOOS-03-GW042111	gross_alpha	Filtered	0.52	0.37	0.15	0.19
OS-3	SOOS-03-GW042111	gross_alpha	Suspended	1.13	1.5	0.51	0.77
OS-3	SOOS-03-GW042111	gross_alpha	Total	1.66	NA	0.53	NA
OS-3	SOOS-03-GW042111	gross_beta	Filtered	4.34	2.6	0.94	1.6
OS-3	SOOS-03-GW042111	gross_beta	Suspended	0.25 U	0.82	0.25	0.48
OS-3	SOOS-03-GW042111	gross_beta	Total	4.59	NA	0.97	NA
OS-3	SOOS-03-GW042111	H-3	Total	-24 U	170	50	83
OS-3	SOOS-03-GW042111	Ho-166m	Filtered	-0.26 U	2.2	0.62	1
OS-3	SOOS-03-GW042111	Ho-166m	Suspended	-0.02 U	1.2	0.34	0.57
OS-3	SOOS-03-GW042111	Ho-166m	Total	-0.28	NA	0.71	NA
OS-3	SOOS-03-GW042111	K-40	Filtered	7.1 U	18	4.7	8.2
OS-3	SOOS-03-GW042111	K-40	Suspended	2.5 U	10	2.4	4.7
OS-3	SOOS-03-GW042111	K-40	Total	9.6	NA	5.3	NA
OS-3	SOOS-03-GW042111	Na-22	Filtered	0.14 U	1.6	0.45	0.72
OS-3	SOOS-03-GW042111	Na-22	Suspended	-0.12 U	0.91	0.26	0.42
OS-3	SOOS-03-GW042111	Na-22	Total	0.02	NA	0.52	NA
OS-3	SOOS-03-GW042111	Nb-94	Filtered	-0.16 U	1.4	0.41	0.66
OS-3	SOOS-03-GW042111	Nb-94	Suspended	-0.13 U	0.71	0.21	0.33
OS-3	SOOS-03-GW042111	Nb-94	Total	-0.28	NA	0.46	NA
OS-3	SOOS-03-GW042111	Np-236	Filtered	0.04 U	3.2	0.94	1.5
OS-3	SOOS-03-GW042111	Np-236	Suspended	0.29 U	1.3	0.4	0.65
OS-3	SOOS-03-GW042111	Np-236	Total	0.3	NA	1	NA
OS-3	SOOS-03-GW042111	Np-239	Filtered	-0.2 U	8.4	2.5	4
OS-3	SOOS-03-GW042111	Np-239	Suspended	0.7 U	3.9	1.1	1.9
OS-3	SOOS-03-GW042111	Np-239	Total	0.5	NA	2.7	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-3	SOOS-03-GW042111	Pa-231	Filtered	20 U	59	18	28
OS-3	SOOS-03-GW042111	Pa-231	Suspended	-0.7 U	26	7.7	13
OS-3	SOOS-03-GW042111	Pa-231	Total	19	NA	19	NA
OS-3	SOOS-03-GW042111	Pb-212	Filtered	-0.36 U	2.3	0.84	1.1
OS-3	SOOS-03-GW042111	Pb-212	Suspended	0.55 U	1.2	0.4	0.58
OS-3	SOOS-03-GW042111	Pb-212	Total	0.19	NA	0.93	NA
OS-3	SOOS-03-GW042111	Pb-214	Filtered	0.82 U	2.9	0.91	1.4
OS-3	SOOS-03-GW042111	Pb-214	Suspended	0.66 U	1.4	0.51	0.69
OS-3	SOOS-03-GW042111	Pb-214	Total	1.5	NA	1	NA
OS-3	SOOS-03-GW042111	Sb-125	Filtered	-4.7 U	13	4	6.3
OS-3	SOOS-03-GW042111	Sb-125	Suspended	0.4 U	6.1	1.8	3
OS-3	SOOS-03-GW042111	Sb-125	Total	-4.3	NA	4.4	NA
OS-3	SOOS-03-GW042111	Sn-126	Filtered	-0.32 U	1.5	0.44	0.7
OS-3	SOOS-03-GW042111	Sn-126	Suspended	0.31 U	0.78	0.23	0.37
OS-3	SOOS-03-GW042111	Sn-126	Total	-0.01	NA	0.5	NA
OS-3	SOOS-03-GW042111	Sr-90	Filtered	0.009 U	0.1	0.029	0.056
OS-3	SOOS-03-GW042111	Sr-90	Suspended	0.029 U	0.059	0.018	0.032
OS-3	SOOS-03-GW042111	Sr-90	Total	0.095	NA	0.041	NA
OS-3	SOOS-03-GW042111	Te-125m	Filtered	-1.09 U	3	0.92	1.5
OS-3	SOOS-03-GW042111	Te-125m	Suspended	0.1 U	1.4	0.42	0.68
OS-3	SOOS-03-GW042111	Te-125m	Total	-1	NA	1	NA
OS-3	SOOS-03-GW042111	Th-231	Filtered	0 U	0.0068	0.002	0.0052
OS-3	SOOS-03-GW042111	Th-231	Suspended	0 U	0.0069	0.002	0.0053
OS-3	SOOS-03-GW042111	Th-231	Total	0	NA	0.0029	NA
OS-3	SOOS-03-GW042111	Th-234	Filtered	20.3	22	7.8	11
OS-3	SOOS-03-GW042111	Th-234	Suspended	3.5 U	8.6	2.9	4.2
OS-3	SOOS-03-GW042111	Th-234	Total	23.8	NA	8.3	NA
OS-3	SOOS-03-GW042111	Tl-208	Filtered	0.06 U	1.8	0.46	0.83
OS-3	SOOS-03-GW042111	Tl-208	Suspended	-0.1 U	0.86	0.28	0.41
OS-3	SOOS-03-GW042111	Tl-208	Total	-0.03	NA	0.53	NA
OS-3	SOOS-03-GW042111	Tm-171	Filtered	-5 U	260	76	120
OS-3	SOOS-03-GW042111	Tm-171	Suspended	-49 U	130	40	64
OS-3	SOOS-03-GW042111	Tm-171	Total	-54	NA	86	NA
OS-3	SOOS-03-GW042111	U-233/234	Filtered	0.271	0.017	0.027	0.006
OS-3	SOOS-03-GW042111	U-233/234	Suspended	-0.0001 U	0.014	0.0053	0.0043
OS-3	SOOS-03-GW042111	U-233/234	Total	0.27	NA	0.027	NA
OS-3	SOOS-03-GW042111	U-235/236	Filtered	0 U	0.0068	0.002	0.0052
OS-3	SOOS-03-GW042111	U-235/236	Suspended	0 U	0.0069	0.002	0.0053

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-3	SOOS-03-GW042111	U-235/236	Total	0	NA	0.0029	NA
OS-3	SOOS-03-GW042111	U-238	Filtered	0.092	0.005	0.015	0.004
OS-3	SOOS-03-GW042111	U-238	Suspended	-0.0055 U	0.014	0.0033	0.0043
OS-3	SOOS-03-GW042111	U-238	Total	0.086	NA	0.015	NA
OS-4	SOOS-04-GW042111	Ac-227	Filtered	0.2 U	11	3.4	5.6
OS-4	SOOS-04-GW042111	Ac-227	Suspended	-1.4 U	4.4	1.3	2.1
OS-4	SOOS-04-GW042111	Ac-227	Total	-1.2	NA	3.7	NA
OS-4	SOOS-04-GW042111	Ac-228	Filtered	2.9	3.8	1.2	1.8
OS-4	SOOS-04-GW042111	Ac-228	Suspended	-0.8 U	2.7	1.3	1.3
OS-4	SOOS-04-GW042111	Ac-228	Total	2.1	NA	1.8	NA
OS-4	SOOS-04-GW042111	Ag-108	Filtered	0.03 U R	0.078	0.023	0.037
OS-4	SOOS-04-GW042111	Ag-108	Suspended	0.016 U R	0.052	0.016	0.025
OS-4	SOOS-04-GW042111	Ag-108	Total	0.046 R	NA	0.028	NA
OS-4	SOOS-04-GW042111	Ag-108m	Filtered	0.33 U R	0.83	0.25	0.4
OS-4	SOOS-04-GW042111	Ag-108m	Suspended	0.17 U R	0.56	0.17	0.27
OS-4	SOOS-04-GW042111	Ag-108m	Total	0.5 R	NA	0.3	NA
OS-4	SOOS-04-GW042111	Ba-133	Filtered	-0.1 U R	12	3.5	5.7
OS-4	SOOS-04-GW042111	Ba-133	Suspended	0.5 U R	6.1	1.8	3
OS-4	SOOS-04-GW042111	Ba-133	Total	0.4 R	NA	3.9	NA
OS-4	SOOS-04-GW042111	Ba-137m	Filtered	-0.16 U	1	0.3	0.48
OS-4	SOOS-04-GW042111	Ba-137m	Suspended	0.26 U	0.57	0.17	0.27
OS-4	SOOS-04-GW042111	Ba-137m	Total	0.1	NA	0.35	NA
OS-4	SOOS-04-GW042111	Bi-212	Filtered	5.4	7.6	2.4	3.5
OS-4	SOOS-04-GW042111	Bi-212	Suspended	1 U	5.9	1.7	2.8
OS-4	SOOS-04-GW042111	Bi-212	Total	6.5	NA	2.9	NA
OS-4	SOOS-04-GW042111	Bi-214	Filtered	3.3	2.6	1.2	1.2
OS-4	SOOS-04-GW042111	Bi-214	Suspended	0.94	1.7	0.65	0.81
OS-4	SOOS-04-GW042111	Bi-214	Total	4.3	NA	1.3	NA
OS-4	SOOS-04-GW042111	Cd-113m	Filtered	1200 U	14000	4100	6700
OS-4	SOOS-04-GW042111	Cd-113m	Suspended	1600 U	7400	2200	3600
OS-4	SOOS-04-GW042111	Cd-113m	Total	2800	NA	4700	NA
OS-4	SOOS-04-GW042111	Cf-249	Filtered	-0.7 U R	5.5	1.6	2.7
OS-4	SOOS-04-GW042111	Cf-249	Suspended	-0.03 U R	3.3	0.98	1.6
OS-4	SOOS-04-GW042111	Cf-249	Total	-0.8 R	NA	1.9	NA
OS-4	SOOS-04-GW042111	Co-60	Filtered	-0.23 U	1.2	0.36	0.58
OS-4	SOOS-04-GW042111	Co-60	Suspended	0.06 U	0.76	0.22	0.35
OS-4	SOOS-04-GW042111	Co-60	Total	-0.17	NA	0.42	NA
OS-4	SOOS-04-GW042111	Cs-134	Filtered	-0.24 U	1.1	0.32	0.52

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-4	SOOS-04-GW042111	Cs-134	Suspended	0.14 U	0.69	0.2	0.33
OS-4	SOOS-04-GW042111	Cs-134	Total	-0.1	NA	0.38	NA
OS-4	SOOS-04-GW042111	Cs-137	Filtered	-0.17 U	1.1	0.32	0.51
OS-4	SOOS-04-GW042111	Cs-137	Suspended	0.27 U	0.61	0.18	0.29
OS-4	SOOS-04-GW042111	Cs-137	Total	0.11	NA	0.37	NA
OS-4	SOOS-04-GW042111	Eu-152	Filtered	0.97 U	3.2	0.95	1.5
OS-4	SOOS-04-GW042111	Eu-152	Suspended	0.25 U	1.8	0.54	0.88
OS-4	SOOS-04-GW042111	Eu-152	Total	1.2	NA	1.1	NA
OS-4	SOOS-04-GW042111	Eu-154	Filtered	0 U	11	3.1	5.1
OS-4	SOOS-04-GW042111	Eu-154	Suspended	1.9 U	5.1	1.5	2.4
OS-4	SOOS-04-GW042111	Eu-154	Total	1.9	NA	3.4	NA
OS-4	SOOS-04-GW042111	Eu-155	Filtered	0.01 U	3.1	0.92	1.5
OS-4	SOOS-04-GW042111	Eu-155	Suspended	-0.19 U	1.3	0.38	0.62
OS-4	SOOS-04-GW042111	Eu-155	Total	-0.17	NA	0.99	NA
OS-4	SOOS-04-GW042111	gross_alpha	Filtered	0.92	0.48	0.22	0.24
OS-4	SOOS-04-GW042111	gross_alpha	Suspended	0.77	1.1	0.36	0.6
OS-4	SOOS-04-GW042111	gross_alpha	Total	1.68	NA	0.43	NA
OS-4	SOOS-04-GW042111	gross_beta	Filtered	3.5	2.9	1	1.7
OS-4	SOOS-04-GW042111	gross_beta	Suspended	0.46	0.75	0.24	0.44
OS-4	SOOS-04-GW042111	gross_beta	Total	4	NA	1	NA
OS-4	SOOS-04-GW042111	H-3	Total	-61 U	170	49	84
OS-4	SOOS-04-GW042111	Ho-166m	Filtered	0.01 U	1.6	0.47	0.77
OS-4	SOOS-04-GW042111	Ho-166m	Suspended	-0.23 U	1.3	0.38	0.61
OS-4	SOOS-04-GW042111	Ho-166m	Total	-0.22	NA	0.6	NA
OS-4	SOOS-04-GW042111	K-40	Filtered	12.4	17	5.3	8.2
OS-4	SOOS-04-GW042111	K-40	Suspended	11.5	9.8	3.5	4.6
OS-4	SOOS-04-GW042111	K-40	Total	23.9	NA	6.4	NA
OS-4	SOOS-04-GW042111	Na-22	Filtered	0.03 U	1.1	0.32	0.53
OS-4	SOOS-04-GW042111	Na-22	Suspended	0.05 U	0.73	0.21	0.34
OS-4	SOOS-04-GW042111	Na-22	Total	0.08	NA	0.38	NA
OS-4	SOOS-04-GW042111	Nb-94	Filtered	0.17 U	1.1	0.32	0.52
OS-4	SOOS-04-GW042111	Nb-94	Suspended	-0.005 U	0.63	0.18	0.3
OS-4	SOOS-04-GW042111	Nb-94	Total	0.17	NA	0.37	NA
OS-4	SOOS-04-GW042111	Np-236	Filtered	0.57 U	2.8	0.84	1.4
OS-4	SOOS-04-GW042111	Np-236	Suspended	-0.19 U	1.2	0.37	0.6
OS-4	SOOS-04-GW042111	Np-236	Total	0.39	NA	0.92	NA
OS-4	SOOS-04-GW042111	Np-239	Filtered	0.6 U	6.6	1.9	3.2
OS-4	SOOS-04-GW042111	Np-239	Suspended	1.32	2.8	0.84	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-4	SOOS-04-GW042111	Np-239	Total	2	NA	2.1	NA
OS-4	SOOS-04-GW042111	Pa-231	Filtered	-7 U	53	16	26
OS-4	SOOS-04-GW042111	Pa-231	Suspended	-8.9 U	27	8.2	13
OS-4	SOOS-04-GW042111	Pa-231	Total	-16	NA	18	NA
OS-4	SOOS-04-GW042111	Pb-212	Filtered	0.35 U	2.5	0.85	1.2
OS-4	SOOS-04-GW042111	Pb-212	Suspended	0.42 U	1.2	0.41	0.56
OS-4	SOOS-04-GW042111	Pb-212	Total	0.77	NA	0.94	NA
OS-4	SOOS-04-GW042111	Pb-214	Filtered	0.16 U	2.8	0.75	1.3
OS-4	SOOS-04-GW042111	Pb-214	Suspended	-0.33 U	1.4	0.53	0.66
OS-4	SOOS-04-GW042111	Pb-214	Total	-0.17	NA	0.92	NA
OS-4	SOOS-04-GW042111	Sb-125	Filtered	-0.6 U	13	3.7	6.1
OS-4	SOOS-04-GW042111	Sb-125	Suspended	0.5 U	5.5	1.6	2.7
OS-4	SOOS-04-GW042111	Sb-125	Total	-0.1	NA	4.1	NA
OS-4	SOOS-04-GW042111	Sn-126	Filtered	0.18 U	1.2	0.36	0.59
OS-4	SOOS-04-GW042111	Sn-126	Suspended	0.36	0.74	0.23	0.35
OS-4	SOOS-04-GW042111	Sn-126	Total	0.54	NA	0.43	NA
OS-4	SOOS-04-GW042111	Sr-90	Filtered	0.057 U	0.11	0.033	0.06
OS-4	SOOS-04-GW042111	Sr-90	Suspended	0.013 U	0.052	0.015	0.029
OS-4	SOOS-04-GW042111	Sr-90	Total	0.069	NA	0.044	NA
OS-4	SOOS-04-GW042111	Te-125m	Filtered	-0.14 U	2.9	0.86	1.4
OS-4	SOOS-04-GW042111	Te-125m	Suspended	0.12 U	1.3	0.38	0.62
OS-4	SOOS-04-GW042111	Te-125m	Total	-0.03	NA	0.94	NA
OS-4	SOOS-04-GW042111	Th-231	Filtered	0.0153	0.0069	0.0063	0.0053
OS-4	SOOS-04-GW042111	Th-231	Suspended	0.0011 U	0.023	0.005	0.0081
OS-4	SOOS-04-GW042111	Th-231	Total	0.0164	NA	0.008	NA
OS-4	SOOS-04-GW042111	Th-234	Filtered	-7.6 U	24	9.8	12
OS-4	SOOS-04-GW042111	Th-234	Suspended	0.6 U	7.9	2.7	3.9
OS-4	SOOS-04-GW042111	Th-234	Total	-7	NA	10	NA
OS-4	SOOS-04-GW042111	Tl-208	Filtered	-0.72 U	1.6	0.88	0.76
OS-4	SOOS-04-GW042111	Tl-208	Suspended	0.56	0.73	0.3	0.35
OS-4	SOOS-04-GW042111	Tl-208	Total	-0.16	NA	0.93	NA
OS-4	SOOS-04-GW042111	Tm-171	Filtered	90 U	340	100	160
OS-4	SOOS-04-GW042111	Tm-171	Suspended	12 U	120	35	57
OS-4	SOOS-04-GW042111	Tm-171	Total	100	NA	110	NA
OS-4	SOOS-04-GW042111	U-233/234	Filtered	0.507	0.006	0.039	0.004
OS-4	SOOS-04-GW042111	U-233/234	Suspended	0.003 U	0.015	0.0061	0.0046
OS-4	SOOS-04-GW042111	U-233/234	Total	0.509	NA	0.039	NA
OS-4	SOOS-04-GW042111	U-235/236	Filtered	0.0153	0.0069	0.0063	0.0053

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-4	SOOS-04-GW042111	U-235/236	Suspended	0.0011 U	0.023	0.005	0.0081
OS-4	SOOS-04-GW042111	U-235/236	Total	0.0164	NA	0.008	NA
OS-4	SOOS-04-GW042111	U-238	Filtered	0.191	0.006	0.022	0.004
OS-4	SOOS-04-GW042111	U-238	Suspended	0.0009 U	0.006	0.0044	0.0046
OS-4	SOOS-04-GW042111	U-238	Total	0.192	NA	0.022	NA
OS-9	SOOS-09-GW041811	Ac-227	Filtered	-7.6 L U	12	3.7	5.9
OS-9	SOOS-09-GW041811	Ac-227	Suspended	-0.1 U	4.6	1.4	2.2
OS-9	SOOS-09-GW041811	Ac-227	Total	-7.7	NA	4	NA
OS-9	SOOS-09-GW041811	Ac-228	Filtered	2.7	5.1	1.6	2.4
OS-9	SOOS-09-GW041811	Ac-228	Suspended	1.34 U	3.1	0.86	1.5
OS-9	SOOS-09-GW041811	Ac-228	Total	4	NA	1.8	NA
OS-9	SOOS-09-GW041811	Ag-108	Filtered	0.004 U R	0.11	0.032	0.053
OS-9	SOOS-09-GW041811	Ag-108	Suspended	-0.005 U R	0.057	0.017	0.027
OS-9	SOOS-09-GW041811	Ag-108	Total	-0.0008 R	NA	0.036	NA
OS-9	SOOS-09-GW041811	Ag-108m	Filtered	0.05 U R	1.2	0.35	0.57
OS-9	SOOS-09-GW041811	Ag-108m	Suspended	-0.06 U R	0.61	0.18	0.3
OS-9	SOOS-09-GW041811	Ag-108m	Total	-0.009 R	NA	0.39	NA
OS-9	SOOS-09-GW041811	Ba-133	Filtered	-0.2 U R	13	3.7	6
OS-9	SOOS-09-GW041811	Ba-133	Suspended	-0.8 U R	6.4	1.9	3.1
OS-9	SOOS-09-GW041811	Ba-133	Total	-1 R	NA	4.1	NA
OS-9	SOOS-09-GW041811	Ba-137m	Filtered	-0.009 U	1.4	0.39	0.63
OS-9	SOOS-09-GW041811	Ba-137m	Suspended	0.11 U	0.72	0.21	0.34
OS-9	SOOS-09-GW041811	Ba-137m	Total	0.1	NA	0.44	NA
OS-9	SOOS-09-GW041811	Bi-212	Filtered	8.4	13	3.9	6
OS-9	SOOS-09-GW041811	Bi-212	Suspended	2.3 U	5.6	1.7	2.6
OS-9	SOOS-09-GW041811	Bi-212	Total	10.6	NA	4.3	NA
OS-9	SOOS-09-GW041811	Bi-214	Filtered	4.7	3.6	1.5	1.7
OS-9	SOOS-09-GW041811	Bi-214	Suspended	2.28	1.5	0.56	0.71
OS-9	SOOS-09-GW041811	Bi-214	Total	7	NA	1.6	NA
OS-9	SOOS-09-GW041811	Cd-113m	Filtered	2200 U	19000	5500	9000
OS-9	SOOS-09-GW041811	Cd-113m	Suspended	-1400 U	7500	2200	3600
OS-9	SOOS-09-GW041811	Cd-113m	Total	900	NA	5900	NA
OS-9	SOOS-09-GW041811	Cf-249	Filtered	-1.3 U R	7.4	2.2	3.6
OS-9	SOOS-09-GW041811	Cf-249	Suspended	0.009 U R	3.2	0.95	1.6
OS-9	SOOS-09-GW041811	Cf-249	Total	-1.3 R	NA	2.4	NA
OS-9	SOOS-09-GW041811	Co-60	Filtered	0.002 U	1.5	0.42	0.69
OS-9	SOOS-09-GW041811	Co-60	Suspended	0 U	0.63	0.18	0.29
OS-9	SOOS-09-GW041811	Co-60	Total	0.002	NA	0.45	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9	SOOS-09-GW041811	Cs-134	Filtered	-0.56 U	1.7	0.51	0.82
OS-9	SOOS-09-GW041811	Cs-134	Suspended	0.04 U	0.76	0.22	0.37
OS-9	SOOS-09-GW041811	Cs-134	Total	-0.52	NA	0.56	NA
OS-9	SOOS-09-GW041811	Cs-137	Filtered	-0.01 U	1.4	0.41	0.67
OS-9	SOOS-09-GW041811	Cs-137	Suspended	0.12 U	0.76	0.22	0.36
OS-9	SOOS-09-GW041811	Cs-137	Total	0.11	NA	0.46	NA
OS-9	SOOS-09-GW041811	Eu-152	Filtered	-0.6 U	4.1	1.2	2
OS-9	SOOS-09-GW041811	Eu-152	Suspended	0.63 U	1.7	0.51	0.81
OS-9	SOOS-09-GW041811	Eu-152	Total	0.04	NA	1.3	NA
OS-9	SOOS-09-GW041811	Eu-154	Filtered	3.1 U	12	3.4	5.4
OS-9	SOOS-09-GW041811	Eu-154	Suspended	-1 U	6.2	1.8	2.9
OS-9	SOOS-09-GW041811	Eu-154	Total	2.1	NA	3.9	NA
OS-9	SOOS-09-GW041811	Eu-155	Filtered	0.3 U	3.5	1	1.7
OS-9	SOOS-09-GW041811	Eu-155	Suspended	0.32 U	1.4	0.43	0.7
OS-9	SOOS-09-GW041811	Eu-155	Total	0.6	NA	1.1	NA
OS-9	SOOS-09-GW041811	gross_alpha	Filtered	0.81	0.41	0.19	0.21
OS-9	SOOS-09-GW041811	gross_alpha	Suspended	2.8	0.57	0.37	0.31
OS-9	SOOS-09-GW041811	gross_alpha	Total	3.61	NA	0.41	NA
OS-9	SOOS-09-GW041811	gross_beta	Filtered	2.07	2.5	0.82	1.5
OS-9	SOOS-09-GW041811	gross_beta	Suspended	1.53	0.92	0.33	0.55
OS-9	SOOS-09-GW041811	gross_beta	Total	3.6	NA	0.89	NA
OS-9	SOOS-09-GW041811	H-3	Total	38 U	150	45	74
OS-9	SOOS-09-GW041811	Ho-166m	Filtered	0.22 U	2.3	0.66	1.1
OS-9	SOOS-09-GW041811	Ho-166m	Suspended	0.07 U	1.2	0.36	0.59
OS-9	SOOS-09-GW041811	Ho-166m	Total	0.29	NA	0.76	NA
OS-9	SOOS-09-GW041811	K-40	Filtered	-3.9 U	23	6.8	11
OS-9	SOOS-09-GW041811	K-40	Suspended	9.3	13	4.1	6.1
OS-9	SOOS-09-GW041811	K-40	Total	5.3	NA	8	NA
OS-9	SOOS-09-GW041811	Na-22	Filtered	0.48 U	1.5	0.43	0.66
OS-9	SOOS-09-GW041811	Na-22	Suspended	0.08 U	0.71	0.2	0.33
OS-9	SOOS-09-GW041811	Na-22	Total	0.57	NA	0.48	NA
OS-9	SOOS-09-GW041811	Nb-94	Filtered	0.29 U	1.5	0.44	0.71
OS-9	SOOS-09-GW041811	Nb-94	Suspended	0.04 U	0.71	0.21	0.34
OS-9	SOOS-09-GW041811	Nb-94	Total	0.33	NA	0.49	NA
OS-9	SOOS-09-GW041811	Np-236	Filtered	-1 U	3.5	1.1	1.7
OS-9	SOOS-09-GW041811	Np-236	Suspended	-0.24 U	1.3	0.38	0.62
OS-9	SOOS-09-GW041811	Np-236	Total	-1.2	NA	1.1	NA
OS-9	SOOS-09-GW041811	Np-239	Filtered	0.4 U	8.9	2.6	4.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9	SOOS-09-GW041811	Np-239	Suspended	0.8 U	4	1.2	1.9
OS-9	SOOS-09-GW041811	Np-239	Total	1.2	NA	2.9	NA
OS-9	SOOS-09-GW041811	Pa-231	Filtered	-2 U	50	14	24
OS-9	SOOS-09-GW041811	Pa-231	Suspended	0.2 U	27	7.8	13
OS-9	SOOS-09-GW041811	Pa-231	Total	-1	NA	16	NA
OS-9	SOOS-09-GW041811	Pb-212	Filtered	0.37 U	2.7	0.81	1.3
OS-9	SOOS-09-GW041811	Pb-212	Suspended	1.79	1.2	0.45	0.56
OS-9	SOOS-09-GW041811	Pb-212	Total	2.16	NA	0.92	NA
OS-9	SOOS-09-GW041811	Pb-214	Filtered	-0.8 U	3.7	1.4	1.8
OS-9	SOOS-09-GW041811	Pb-214	Suspended	2.85	1.5	0.66	0.72
OS-9	SOOS-09-GW041811	Pb-214	Total	2.1	NA	1.6	NA
OS-9	SOOS-09-GW041811	Sb-125	Filtered	-1 U	14	4	6.5
OS-9	SOOS-09-GW041811	Sb-125	Suspended	-0.04 U	6.1	1.8	3
OS-9	SOOS-09-GW041811	Sb-125	Total	-1.1	NA	4.4	NA
OS-9	SOOS-09-GW041811	Sn-126	Filtered	-0.41 U	1.8	0.53	0.84
OS-9	SOOS-09-GW041811	Sn-126	Suspended	0.24 U	0.84	0.25	0.4
OS-9	SOOS-09-GW041811	Sn-126	Total	-0.17	NA	0.58	NA
OS-9	SOOS-09-GW041811	Sr-90	Filtered	0.006 U	0.12	0.035	0.069
OS-9	SOOS-09-GW041811	Sr-90	Suspended	0.02 U	0.064	0.019	0.034
OS-9	SOOS-09-GW041811	Sr-90	Total	0.026	NA	0.04	NA
OS-9	SOOS-09-GW041811	Te-125m	Filtered	-0.24 U	3.1	0.92	1.5
OS-9	SOOS-09-GW041811	Te-125m	Suspended	-0.01 U	1.4	0.42	0.69
OS-9	SOOS-09-GW041811	Te-125m	Total	-0.2	NA	1	NA
OS-9	SOOS-09-GW041811	Th-231	Filtered	0.0078	0.0071	0.0045	0.0054
OS-9	SOOS-09-GW041811	Th-231	Suspended	0.0249	0.018	0.0089	0.0056
OS-9	SOOS-09-GW041811	Th-231	Total	0.0327	NA	0.01	NA
OS-9	SOOS-09-GW041811	Th-234	Filtered	-3 U	28	11	14
OS-9	SOOS-09-GW041811	Th-234	Suspended	0.9 U	9.1	2.8	4.5
OS-9	SOOS-09-GW041811	Th-234	Total	-2	NA	11	NA
OS-9	SOOS-09-GW041811	Tl-208	Filtered	1.74	1.7	0.67	0.81
OS-9	SOOS-09-GW041811	Tl-208	Suspended	0.41	0.74	0.25	0.36
OS-9	SOOS-09-GW041811	Tl-208	Total	2.16	NA	0.71	NA
OS-9	SOOS-09-GW041811	Tm-171	Filtered	60 U	440	130	220
OS-9	SOOS-09-GW041811	Tm-171	Suspended	39 U	120	36	59
OS-9	SOOS-09-GW041811	Tm-171	Total	100	NA	140	NA
OS-9	SOOS-09-GW041811	U-233/234	Filtered	0.074	0.006	0.014	0.004
OS-9	SOOS-09-GW041811	U-233/234	Suspended	0.461	0.006	0.037	0.005
OS-9	SOOS-09-GW041811	U-233/234	Total	0.535	NA	0.04	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9	SOOS-09-GW041811	U-235/236	Filtered	0.0078	0.0071	0.0045	0.0054
OS-9	SOOS-09-GW041811	U-235/236	Suspended	0.0249	0.018	0.0089	0.0056
OS-9	SOOS-09-GW041811	U-235/236	Total	0.0327	NA	0.01	NA
OS-9	SOOS-09-GW041811	U-238	Filtered	0.071	0.014	0.013	0.004
OS-9	SOOS-09-GW041811	U-238	Suspended	0.478	0.006	0.038	0.005
OS-9	SOOS-09-GW041811	U-238	Total	0.548	NA	0.04	NA
OS-9R	SOOS-9R-GW040111	Ac-227	Filtered	-8.3 L U	9.6	3	4.7
OS-9R	SOOS-9R-GW040111	Ac-227	Suspended	-0.76 U	3.2	0.95	1.5
OS-9R	SOOS-9R-GW040111	Ac-227	Total	-9.1 L	NA	3.1	NA
OS-9R	SOOS-9R-GW040111	Ac-228	Filtered	1.93	3.1	0.97	1.5
OS-9R	SOOS-9R-GW040111	Ac-228	Suspended	1.39	1.7	0.53	0.77
OS-9R	SOOS-9R-GW040111	Ac-228	Total	3.3	NA	1.1	NA
OS-9R	SOOS-9R-GW040111	Ag-108	Filtered	0.016 U R	0.089	0.026	0.042
OS-9R	SOOS-9R-GW040111	Ag-108	Suspended	-0.003 U R	0.041	0.012	0.02
OS-9R	SOOS-9R-GW040111	Ag-108	Total	0.013 R	NA	0.029	NA
OS-9R	SOOS-9R-GW040111	Ag-108m	Filtered	0.17 U R	0.95	0.28	0.46
OS-9R	SOOS-9R-GW040111	Ag-108m	Suspended	-0.03 U R	0.45	0.13	0.21
OS-9R	SOOS-9R-GW040111	Ag-108m	Total	0.14 R	NA	0.31	NA
OS-9R	SOOS-9R-GW040111	Ba-133	Filtered	1.9 U R	11	3.3	5.3
OS-9R	SOOS-9R-GW040111	Ba-133	Suspended	0.4 U R	3.5	1	1.7
OS-9R	SOOS-9R-GW040111	Ba-133	Total	2.3 R	NA	3.4	NA
OS-9R	SOOS-9R-GW040111	Ba-137m	Filtered	0.21 U	0.98	0.29	0.46
OS-9R	SOOS-9R-GW040111	Ba-137m	Suspended	0.14 U	0.52	0.15	0.25
OS-9R	SOOS-9R-GW040111	Ba-137m	Total	0.36	NA	0.33	NA
OS-9R	SOOS-9R-GW040111	Bi-212	Filtered	-0.9 U	9.7	2.8	4.6
OS-9R	SOOS-9R-GW040111	Bi-212	Suspended	-0.04 U	3.9	1.1	1.8
OS-9R	SOOS-9R-GW040111	Bi-212	Total	-0.9	NA	3	NA
OS-9R	SOOS-9R-GW040111	Bi-214	Filtered	1.9	2.4	1	1.2
OS-9R	SOOS-9R-GW040111	Bi-214	Suspended	0.78	1.3	0.52	0.62
OS-9R	SOOS-9R-GW040111	Bi-214	Total	2.7	NA	1.2	NA
OS-9R	SOOS-9R-GW040111	Cd-113m	Filtered	3500 U	11000	3400	5500
OS-9R	SOOS-9R-GW040111	Cd-113m	Suspended	2000 U	5000	1500	2400
OS-9R	SOOS-9R-GW040111	Cd-113m	Total	5600	NA	3800	NA
OS-9R	SOOS-9R-GW040111	Cf-249	Filtered	0.2 U R	5.2	1.5	2.5
OS-9R	SOOS-9R-GW040111	Cf-249	Suspended	0.58 U R	2	0.6	0.95
OS-9R	SOOS-9R-GW040111	Cf-249	Total	0.8 R	NA	1.6	NA
OS-9R	SOOS-9R-GW040111	Co-60	Filtered	0.24 U	1.1	0.31	0.49
OS-9R	SOOS-9R-GW040111	Co-60	Suspended	0.1 U	0.54	0.16	0.25

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9R	SOOS-9R-GW040111	Co-60	Total	0.34	NA	0.35	NA
OS-9R	SOOS-9R-GW040111	Cs-134	Filtered	-0.03 U	1.4	0.4	0.66
OS-9R	SOOS-9R-GW040111	Cs-134	Suspended	-0.1 U	0.65	0.19	0.31
OS-9R	SOOS-9R-GW040111	Cs-134	Total	-0.14	NA	0.45	NA
OS-9R	SOOS-9R-GW040111	Cs-137	Filtered	0.23 U	1	0.31	0.49
OS-9R	SOOS-9R-GW040111	Cs-137	Suspended	0.15 U	0.55	0.16	0.26
OS-9R	SOOS-9R-GW040111	Cs-137	Total	0.38	NA	0.35	NA
OS-9R	SOOS-9R-GW040111	Eu-152	Filtered	-0.72 U	3.2	0.94	1.5
OS-9R	SOOS-9R-GW040111	Eu-152	Suspended	0.03 U	1.3	0.39	0.64
OS-9R	SOOS-9R-GW040111	Eu-152	Total	-0.7	NA	1	NA
OS-9R	SOOS-9R-GW040111	Eu-154	Filtered	-1.5 U	8.5	2.5	4
OS-9R	SOOS-9R-GW040111	Eu-154	Suspended	0.1 U	4.5	1.3	2.1
OS-9R	SOOS-9R-GW040111	Eu-154	Total	-1.4	NA	2.8	NA
OS-9R	SOOS-9R-GW040111	Eu-155	Filtered	-0.42 U	3.1	0.92	1.5
OS-9R	SOOS-9R-GW040111	Eu-155	Suspended	0.18 U	0.78	0.23	0.38
OS-9R	SOOS-9R-GW040111	Eu-155	Total	-0.23	NA	0.95	NA
OS-9R	SOOS-9R-GW040111	gross_alpha	Filtered	0.69	0.48	0.19	0.26
OS-9R	SOOS-9R-GW040111	gross_alpha	Suspended	1	0.49	0.22	0.27
OS-9R	SOOS-9R-GW040111	gross_alpha	Total	1.7	NA	0.29	NA
OS-9R	SOOS-9R-GW040111	gross_beta	Filtered	1.14 U	2.4	0.74	1.5
OS-9R	SOOS-9R-GW040111	gross_beta	Suspended	0.23 U	0.9	0.27	0.54
OS-9R	SOOS-9R-GW040111	gross_beta	Total	1.37	NA	0.79	NA
OS-9R	SOOS-9R-GW040111	H-3	Total	32 U	130	39	64
OS-9R	SOOS-9R-GW040111	Ho-166m	Filtered	-0.04 U	1.6	0.45	0.73
OS-9R	SOOS-9R-GW040111	Ho-166m	Suspended	-0.01 U	0.8	0.23	0.37
OS-9R	SOOS-9R-GW040111	Ho-166m	Total	-0.05	NA	0.5	NA
OS-9R	SOOS-9R-GW040111	K-40	Filtered	14.3	15	4.2	7.3
OS-9R	SOOS-9R-GW040111	K-40	Suspended	2.8 U	8.1	2.8	3.8
OS-9R	SOOS-9R-GW040111	K-40	Total	17.1	NA	5.1	NA
OS-9R	SOOS-9R-GW040111	Na-22	Filtered	0.15 U	1	0.29	0.46
OS-9R	SOOS-9R-GW040111	Na-22	Suspended	0.02 U	0.53	0.15	0.24
OS-9R	SOOS-9R-GW040111	Na-22	Total	0.16	NA	0.32	NA
OS-9R	SOOS-9R-GW040111	Nb-94	Filtered	0.14 U	1.1	0.32	0.52
OS-9R	SOOS-9R-GW040111	Nb-94	Suspended	-0.03 U	0.47	0.14	0.22
OS-9R	SOOS-9R-GW040111	Nb-94	Total	0.11	NA	0.35	NA
OS-9R	SOOS-9R-GW040111	Np-236	Filtered	-1.25 U	2.7	0.83	1.3
OS-9R	SOOS-9R-GW040111	Np-236	Suspended	0.19 U	0.94	0.28	0.46
OS-9R	SOOS-9R-GW040111	Np-236	Total	-1.05	NA	0.88	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9R	SOOS-9R-GW040111	Np-239	Filtered	0.05 U	6.8	2	3.3
OS-9R	SOOS-9R-GW040111	Np-239	Suspended	0.47 U	2.7	0.82	1.3
OS-9R	SOOS-9R-GW040111	Np-239	Total	0.5	NA	2.2	NA
OS-9R	SOOS-9R-GW040111	Pa-231	Filtered	18 U	44	13	21
OS-9R	SOOS-9R-GW040111	Pa-231	Suspended	6.2 U	19	5.8	9.3
OS-9R	SOOS-9R-GW040111	Pa-231	Total	24	NA	14	NA
OS-9R	SOOS-9R-GW040111	Pb-212	Filtered	0.83 U	2.2	0.68	1.1
OS-9R	SOOS-9R-GW040111	Pb-212	Suspended	-0.04 U	0.85	0.28	0.41
OS-9R	SOOS-9R-GW040111	Pb-212	Total	0.79	NA	0.74	NA
OS-9R	SOOS-9R-GW040111	Pb-214	Filtered	1.42	2.3	0.86	1.1
OS-9R	SOOS-9R-GW040111	Pb-214	Suspended	-0.02 U	1.1	0.31	0.54
OS-9R	SOOS-9R-GW040111	Pb-214	Total	1.4	NA	0.91	NA
OS-9R	SOOS-9R-GW040111	Sb-125	Filtered	0.2 U	11	3.3	5.5
OS-9R	SOOS-9R-GW040111	Sb-125	Suspended	0.7 U	4.2	1.2	2
OS-9R	SOOS-9R-GW040111	Sb-125	Total	1	NA	3.6	NA
OS-9R	SOOS-9R-GW040111	Sn-126	Filtered	0.48 U	1.1	0.33	0.52
OS-9R	SOOS-9R-GW040111	Sn-126	Suspended	0.34	0.64	0.19	0.3
OS-9R	SOOS-9R-GW040111	Sn-126	Total	0.83	NA	0.39	NA
OS-9R	SOOS-9R-GW040111	Sr-90	Filtered	-0.022	0.091	0.025	0.051
OS-9R	SOOS-9R-GW040111	Sr-90	Suspended	-0.03 L U	0.054	0.014	0.031
OS-9R	SOOS-9R-GW040111	Sr-90	Total	-0.052	NA	0.029	NA
OS-9R	SOOS-9R-GW040111	Te-125m	Filtered	0.05 U	2.6	0.77	1.3
OS-9R	SOOS-9R-GW040111	Te-125m	Suspended	0.17 U	0.96	0.29	0.46
OS-9R	SOOS-9R-GW040111	Te-125m	Total	0.22	NA	0.82	NA
OS-9R	SOOS-9R-GW040111	Th-231	Filtered	0.0024 U	0.0066	0.0024	0.0057
OS-9R	SOOS-9R-GW040111	Th-231	Suspended	-0.0019 U	0.016	0.0019	0.0051
OS-9R	SOOS-9R-GW040111	Th-231	Total	0.0005	NA	0.0031	NA
OS-9R	SOOS-9R-GW040111	Th-234	Filtered	-0.7 U	21	6.5	10
OS-9R	SOOS-9R-GW040111	Th-234	Suspended	1.1 U	4.9	1.5	2.4
OS-9R	SOOS-9R-GW040111	Th-234	Total	0.4	NA	6.6	NA
OS-9R	SOOS-9R-GW040111	Tl-208	Filtered	-0.35 U	1.4	0.53	0.69
OS-9R	SOOS-9R-GW040111	Tl-208	Suspended	-0.23 U	0.63	0.57	0.3
OS-9R	SOOS-9R-GW040111	Tl-208	Total	-0.58	NA	0.78	NA
OS-9R	SOOS-9R-GW040111	Tm-171	Filtered	80 U	340	100	170
OS-9R	SOOS-9R-GW040111	Tm-171	Suspended	29 U	82	25	40
OS-9R	SOOS-9R-GW040111	Tm-171	Total	110	NA	110	NA
OS-9R	SOOS-9R-GW040111	U-233/234	Filtered	0.0168	0.019	0.0083	0.0071
OS-9R	SOOS-9R-GW040111	U-233/234	Suspended	0.005	0.0053	0.0055	0.0041

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
OS-9R	SOOS-9R-GW040111	U-233/234	Total	0.0218	NA	0.01	NA
OS-9R	SOOS-9R-GW040111	U-235/236	Filtered	0.0024 U	0.0066	0.0024	0.0051
OS-9R	SOOS-9R-GW040111	U-235/236	Suspended	-0.0019 U	0.016	0.0019	0.0051
OS-9R	SOOS-9R-GW040111	U-235/236	Total	0.0005	NA	0.0031	NA
OS-9R	SOOS-9R-GW040111	U-238	Filtered	0.0091	0.016	0.0066	0.0057
OS-9R	SOOS-9R-GW040111	U-238	Suspended	0.0019 U	0.0053	0.0044	0.0041
OS-9R	SOOS-9R-GW040111	U-238	Total	0.011	NA	0.0079	NA
PZ-005	SMPZ-005-GW032311	Ac-227	Filtered	-8.3 L U	9.6	3	4.7
PZ-005	SMPZ-005-GW032311	Ac-227	Suspended	-2.9 L U	4.4	1.3	2.1
PZ-005	SMPZ-005-GW032311	Ac-227	Total	-11.2 R	NA	3.3	NA
PZ-005	SMPZ-005-GW032311	Ac-228	Filtered	2	3.5	1.1	1.6
PZ-005	SMPZ-005-GW032311	Ac-228	Suspended	3.52	1.9	0.7	0.91
PZ-005	SMPZ-005-GW032311	Ac-228	Total	5.5	NA	1.3	NA
PZ-005	SMPZ-005-GW032311	Ag-108	Filtered	0.009 U R	0.087	0.025	0.042
PZ-005	SMPZ-005-GW032311	Ag-108	Suspended	-0.013 U R	0.056	0.017	0.027
PZ-005	SMPZ-005-GW032311	Ag-108	Total	-0.004 R	NA	0.03	NA
PZ-005	SMPZ-005-GW032311	Ag-108m	Filtered	0.1 U R	0.93	0.27	0.45
PZ-005	SMPZ-005-GW032311	Ag-108m	Suspended	-0.14 U R	0.6	0.18	0.29
PZ-005	SMPZ-005-GW032311	Ag-108m	Total	-0.04 R	NA	0.33	NA
PZ-005	SMPZ-005-GW032311	Ba-133	Filtered	2.9 U R	10	3	4.9
PZ-005	SMPZ-005-GW032311	Ba-133	Suspended	-0.05 U R	5.4	1.6	2.6
PZ-005	SMPZ-005-GW032311	Ba-133	Total	2.8 R	NA	3.4	NA
PZ-005	SMPZ-005-GW032311	Ba-137m	Filtered	0.67	1.1	0.33	0.51
PZ-005	SMPZ-005-GW032311	Ba-137m	Suspended	-0.08 U	0.75	0.22	0.36
PZ-005	SMPZ-005-GW032311	Ba-137m	Total	0.59	NA	0.4	NA
PZ-005	SMPZ-005-GW032311	Bi-212	Filtered	-1.6 U	9.7	5.5	4.6
PZ-005	SMPZ-005-GW032311	Bi-212	Suspended	-0.8 U	5.6	3.3	2.7
PZ-005	SMPZ-005-GW032311	Bi-212	Total	-2.4	NA	6.4	NA
PZ-005	SMPZ-005-GW032311	Bi-214	Filtered	0.9 U	2.9	1.2	1.4
PZ-005	SMPZ-005-GW032311	Bi-214	Suspended	0.05 U	1.7	0.6	0.81
PZ-005	SMPZ-005-GW032311	Bi-214	Total	1	NA	1.3	NA
PZ-005	SMPZ-005-GW032311	Cd-113m	Filtered	5100 U	13000	3800	6100
PZ-005	SMPZ-005-GW032311	Cd-113m	Suspended	50 U	6900	2000	3300
PZ-005	SMPZ-005-GW032311	Cd-113m	Total	5100	NA	4300	NA
PZ-005	SMPZ-005-GW032311	Cf-249	Filtered	0.2 U R	5.3	1.6	2.6
PZ-005	SMPZ-005-GW032311	Cf-249	Suspended	0.3 U R	3.2	0.93	1.5
PZ-005	SMPZ-005-GW032311	Cf-249	Total	0.5 R	NA	1.8	NA
PZ-005	SMPZ-005-GW032311	Co-60	Filtered	0.14 U	1.1	0.31	0.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW032311	Co-60	Suspended	-0.09 U	0.78	0.22	0.36
PZ-005	SMPZ-005-GW032311	Co-60	Total	0.05	NA	0.38	NA
PZ-005	SMPZ-005-GW032311	Cs-134	Filtered	0 U	1.5	0.43	0.71
PZ-005	SMPZ-005-GW032311	Cs-134	Suspended	-0.02 U	0.74	0.22	0.36
PZ-005	SMPZ-005-GW032311	Cs-134	Total	-0.02	NA	0.48	NA
PZ-005	SMPZ-005-GW032311	Cs-137	Filtered	0.71	1.1	0.35	0.53
PZ-005	SMPZ-005-GW032311	Cs-137	Suspended	-0.09 U	0.8	0.23	0.38
PZ-005	SMPZ-005-GW032311	Cs-137	Total	0.62	NA	0.42	NA
PZ-005	SMPZ-005-GW032311	Eu-152	Filtered	-0.8 U	3.4	1	1.6
PZ-005	SMPZ-005-GW032311	Eu-152	Suspended	-0.34 U	1.8	0.53	0.86
PZ-005	SMPZ-005-GW032311	Eu-152	Total	-1.2	NA	1.1	NA
PZ-005	SMPZ-005-GW032311	Eu-154	Filtered	-1.1 U	9.3	2.7	4.4
PZ-005	SMPZ-005-GW032311	Eu-154	Suspended	2.7	5.7	1.7	2.7
PZ-005	SMPZ-005-GW032311	Eu-154	Total	1.6	NA	3.2	NA
PZ-005	SMPZ-005-GW032311	Eu-155	Filtered	-0.59 U	3	0.88	1.4
PZ-005	SMPZ-005-GW032311	Eu-155	Suspended	0.3 U	1.1	0.33	0.54
PZ-005	SMPZ-005-GW032311	Eu-155	Total	-0.29	NA	0.94	NA
PZ-005	SMPZ-005-GW032311	gross_alpha	Filtered	7.79	0.43	0.66	0.2
PZ-005	SMPZ-005-GW032311	gross_alpha	Suspended	1.87	0.9	0.42	0.47
PZ-005	SMPZ-005-GW032311	gross_alpha	Total	9.66	NA	0.78	NA
PZ-005	SMPZ-005-GW032311	gross_beta	Filtered	4.4	3.1	1.1	1.8
PZ-005	SMPZ-005-GW032311	gross_beta	Suspended	7.51	0.73	0.54	0.42
PZ-005	SMPZ-005-GW032311	gross_beta	Total	11.9	NA	1.3	NA
PZ-005	SMPZ-005-GW032311	H-3	Total	-6 U	150	45	75
PZ-005	SMPZ-005-GW032311	Ho-166m	Filtered	0.08 U	1.6	0.48	0.78
PZ-005	SMPZ-005-GW032311	Ho-166m	Suspended	-0.19 U	1.1	0.32	0.52
PZ-005	SMPZ-005-GW032311	Ho-166m	Total	-0.1	NA	0.57	NA
PZ-005	SMPZ-005-GW032311	K-40	Filtered	17.2	15	4.5	6.9
PZ-005	SMPZ-005-GW032311	K-40	Suspended	1.3 U	11	2.8	5.3
PZ-005	SMPZ-005-GW032311	K-40	Total	18.5	NA	5.3	NA
PZ-005	SMPZ-005-GW032311	Na-22	Filtered	0.21 U	1.1	0.31	0.49
PZ-005	SMPZ-005-GW032311	Na-22	Suspended	-0.17 U	0.75	0.22	0.35
PZ-005	SMPZ-005-GW032311	Na-22	Total	0.04	NA	0.38	NA
PZ-005	SMPZ-005-GW032311	Nb-94	Filtered	0.09 U	1	0.3	0.48
PZ-005	SMPZ-005-GW032311	Nb-94	Suspended	0.17 U	0.61	0.18	0.29
PZ-005	SMPZ-005-GW032311	Nb-94	Total	0.26	NA	0.35	NA
PZ-005	SMPZ-005-GW032311	Np-236	Filtered	-0.09 U	1.9	0.56	0.93
PZ-005	SMPZ-005-GW032311	Np-236	Suspended	-0.18 U	1.2	0.36	0.59

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW032311	Np-236	Total	-0.27	NA	0.67	NA
PZ-005	SMPZ-005-GW032311	Np-239	Filtered	0.2 U	6.8	2	3.3
PZ-005	SMPZ-005-GW032311	Np-239	Suspended	0.14 U	3.1	0.9	1.5
PZ-005	SMPZ-005-GW032311	Np-239	Total	0.3	NA	2.2	NA
PZ-005	SMPZ-005-GW032311	Pa-231	Filtered	1 U	49	14	24
PZ-005	SMPZ-005-GW032311	Pa-231	Suspended	0.3 U	26	7.6	13
PZ-005	SMPZ-005-GW032311	Pa-231	Total	2	NA	16	NA
PZ-005	SMPZ-005-GW032311	Pb-212	Filtered	-0.6 U	2.3	0.67	1.1
PZ-005	SMPZ-005-GW032311	Pb-212	Suspended	0.81	1.1	0.42	0.55
PZ-005	SMPZ-005-GW032311	Pb-212	Total	0.21	NA	0.79	NA
PZ-005	SMPZ-005-GW032311	Pb-214	Filtered	0.06 U	2.7	0.73	1.3
PZ-005	SMPZ-005-GW032311	Pb-214	Suspended	-1 U	1.6	0.96	0.79
PZ-005	SMPZ-005-GW032311	Pb-214	Total	-0.9	NA	1.2	NA
PZ-005	SMPZ-005-GW032311	Sb-125	Filtered	0.08 U	12	3.5	5.7
PZ-005	SMPZ-005-GW032311	Sb-125	Suspended	-0.7 U	5.7	1.7	2.7
PZ-005	SMPZ-005-GW032311	Sb-125	Total	-0.6	NA	3.9	NA
PZ-005	SMPZ-005-GW032311	Sn-126	Filtered	0.007 U	1.2	0.34	0.57
PZ-005	SMPZ-005-GW032311	Sn-126	Suspended	-0.26 U	0.86	0.26	0.41
PZ-005	SMPZ-005-GW032311	Sn-126	Total	-0.25	NA	0.43	NA
PZ-005	SMPZ-005-GW032311	Sr-90	Filtered	0.027 U	0.053	0.016	0.028
PZ-005	SMPZ-005-GW032311	Sr-90	Suspended	0.009 U	0.062	0.018	0.035
PZ-005	SMPZ-005-GW032311	Sr-90	Total	0.036	NA	0.024	NA
PZ-005	SMPZ-005-GW032311	Te-125m	Filtered	0.02 U	2.7	0.8	1.3
PZ-005	SMPZ-005-GW032311	Te-125m	Suspended	-0.17 U	1.3	0.39	0.63
PZ-005	SMPZ-005-GW032311	Te-125m	Total	-0.15	NA	0.89	NA
PZ-005	SMPZ-005-GW032311	Th-231	Filtered	0.276	0.008	0.031	0.007
PZ-005	SMPZ-005-GW032311	Th-231	Suspended	0.0129	0.007	0.0058	0.0054
PZ-005	SMPZ-005-GW032311	Th-231	Total	0.281	NA	0.036	NA
PZ-005	SMPZ-005-GW032311	Th-234	Filtered	-5.7 U	20	8	10
PZ-005	SMPZ-005-GW032311	Th-234	Suspended	2 U	7.1	2.2	3.4
PZ-005	SMPZ-005-GW032311	Th-234	Total	-3.7	NA	8.3	NA
PZ-005	SMPZ-005-GW032311	Tl-208	Filtered	0.31 U	1.4	0.5	0.66
PZ-005	SMPZ-005-GW032311	Tl-208	Suspended	0.29 U	0.73	0.26	0.35
PZ-005	SMPZ-005-GW032311	Tl-208	Total	0.61	NA	0.56	NA
PZ-005	SMPZ-005-GW032311	Tm-171	Filtered	180	340	100	170
PZ-005	SMPZ-005-GW032311	Tm-171	Suspended	28 U	110	33	54
PZ-005	SMPZ-005-GW032311	Tm-171	Total	200	NA	110	NA
PZ-005	SMPZ-005-GW032311	U-233/234	Filtered	5.74	0.02	0.27	0.005

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-005	SMPZ-005-GW032311	U-233/234	Suspended	0.129	0.014	0.018	0.004
PZ-005	SMPZ-005-GW032311	U-233/234	Total	6.13	NA	0.28	NA
PZ-005	SMPZ-005-GW032311	U-235/236	Filtered	0.276	0.008	0.031	0.007
PZ-005	SMPZ-005-GW032311	U-235/236	Suspended	0.0129	0.007	0.0058	0.0054
PZ-005	SMPZ-005-GW032311	U-235/236	Total	0.281	NA	0.036	NA
PZ-005	SMPZ-005-GW032311	U-238	Filtered	5.05	0.02	0.24	0.008
PZ-005	SMPZ-005-GW032311	U-238	Suspended	0.085	0.006	0.014	0.004
PZ-005	SMPZ-005-GW032311	U-238	Total	5.11	NA	0.24	NA
PZ-041	SMPZ-041-GW032511	Ac-227	Filtered	-0.1 U	11	3.2	5.3
PZ-041	SMPZ-041-GW032511	Ac-227	Suspended	0.09 U	2.7	0.81	1.3
PZ-041	SMPZ-041-GW032511	Ac-227	Total	-0.03	NA	3.3	NA
PZ-041	SMPZ-041-GW032511	Ac-228	Filtered	2.3	3.7	1.1	1.7
PZ-041	SMPZ-041-GW032511	Ac-228	Suspended	1.04	1.7	0.53	0.79
PZ-041	SMPZ-041-GW032511	Ac-228	Total	3.3	NA	1.2	NA
PZ-041	SMPZ-041-GW032511	Ag-108	Filtered	-0.01 U R	0.085	0.025	0.041
PZ-041	SMPZ-041-GW032511	Ag-108	Suspended	-0.0001 U R	0.041	0.012	0.02
PZ-041	SMPZ-041-GW032511	Ag-108	Total	-0.01 R	NA	0.028	NA
PZ-041	SMPZ-041-GW032511	Ag-108m	Filtered	-0.1 U R	0.91	0.27	0.44
PZ-041	SMPZ-041-GW032511	Ag-108m	Suspended	-0.0009 U R	0.44	0.13	0.21
PZ-041	SMPZ-041-GW032511	Ag-108m	Total	-0.11 R	NA	0.3	NA
PZ-041	SMPZ-041-GW032511	Ba-133	Filtered	4.3 U R	11	3.2	5.1
PZ-041	SMPZ-041-GW032511	Ba-133	Suspended	-0.9 U R	5	1.5	2.4
PZ-041	SMPZ-041-GW032511	Ba-133	Total	3.4 R	NA	3.5	NA
PZ-041	SMPZ-041-GW032511	Ba-137m	Filtered	-0.2 U	1.1	0.31	0.51
PZ-041	SMPZ-041-GW032511	Ba-137m	Suspended	0 U	0.64	0.19	0.31
PZ-041	SMPZ-041-GW032511	Ba-137m	Total	-0.2	NA	0.37	NA
PZ-041	SMPZ-041-GW032511	Bi-212	Filtered	-0.9 U	9.3	3.8	4.4
PZ-041	SMPZ-041-GW032511	Bi-212	Suspended	-1 U	4.2	1.3	2
PZ-041	SMPZ-041-GW032511	Bi-212	Total	-1.9	NA	4	NA
PZ-041	SMPZ-041-GW032511	Bi-214	Filtered	2.33	2.6	0.996	1.3
PZ-041	SMPZ-041-GW032511	Bi-214	Suspended	1.17	1.2	0.5	0.59
PZ-041	SMPZ-041-GW032511	Bi-214	Total	3.5	NA	1.1	NA
PZ-041	SMPZ-041-GW032511	Cd-113m	Filtered	-50 U	13000	3700	6100
PZ-041	SMPZ-041-GW032511	Cd-113m	Suspended	1 U	5300	1600	2600
PZ-041	SMPZ-041-GW032511	Cd-113m	Total	-40	NA	4000	NA
PZ-041	SMPZ-041-GW032511	Cf-249	Filtered	-0.07 U R	5.6	1.6	2.7
PZ-041	SMPZ-041-GW032511	Cf-249	Suspended	0.38 U R	2.1	0.63	1
PZ-041	SMPZ-041-GW032511	Cf-249	Total	0.3 R	NA	1.7	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW032511	Co-60	Filtered	-0.01 U	0.94	0.26	0.43
PZ-041	SMPZ-041-GW032511	Co-60	Suspended	0.01 U	0.6	0.17	0.28
PZ-041	SMPZ-041-GW032511	Co-60	Total	-0.002	NA	0.31	NA
PZ-041	SMPZ-041-GW032511	Cs-134	Filtered	-0.44 U	1.3	0.39	0.62
PZ-041	SMPZ-041-GW032511	Cs-134	Suspended	-0.18 U	0.61	0.18	0.29
PZ-041	SMPZ-041-GW032511	Cs-134	Total	-0.62 SK	NA	0.43	NA
PZ-041	SMPZ-041-GW032511	Cs-137	Filtered	-0.21 U	1.1	0.33	0.54
PZ-041	SMPZ-041-GW032511	Cs-137	Suspended	0 U	0.68	0.2	0.32
PZ-041	SMPZ-041-GW032511	Cs-137	Total	-0.21	NA	0.39	NA
PZ-041	SMPZ-041-GW032511	Eu-152	Filtered	0.94 U	3.1	0.93	1.5
PZ-041	SMPZ-041-GW032511	Eu-152	Suspended	0.32 U	1.1	0.33	0.52
PZ-041	SMPZ-041-GW032511	Eu-152	Total	1.27	NA	0.99	NA
PZ-041	SMPZ-041-GW032511	Eu-154	Filtered	-2.7 U	9.2	2.7	4.3
PZ-041	SMPZ-041-GW032511	Eu-154	Suspended	-1 U J	4.8	1.4	2.3
PZ-041	SMPZ-041-GW032511	Eu-154	Total	-3.7	NA	3.1	NA
PZ-041	SMPZ-041-GW032511	Eu-155	Filtered	0.58 U	2.9	0.86	1.4
PZ-041	SMPZ-041-GW032511	Eu-155	Suspended	0.14 U	0.74	0.22	0.36
PZ-041	SMPZ-041-GW032511	Eu-155	Total	0.72 SK	NA	0.89	NA
PZ-041	SMPZ-041-GW032511	gross_alpha	Filtered	7.52	0.57	0.65	0.3
PZ-041	SMPZ-041-GW032511	gross_alpha	Suspended	0.47	0.88	0.28	0.45
PZ-041	SMPZ-041-GW032511	gross_alpha	Total	8	NA	0.71	NA
PZ-041	SMPZ-041-GW032511	gross_beta	Filtered	10.4	2	0.996	1.2
PZ-041	SMPZ-041-GW032511	gross_beta	Suspended	0.47 U	0.92	0.29	0.54
PZ-041	SMPZ-041-GW032511	gross_beta	Total	10.9	NA	1	NA
PZ-041	SMPZ-041-GW032511	H-3	Total	105	120	37	56
PZ-041	SMPZ-041-GW032511	Ho-166m	Filtered	0.01 U	2	0.57	0.94
PZ-041	SMPZ-041-GW032511	Ho-166m	Suspended	0.33 U	0.78	0.24	0.37
PZ-041	SMPZ-041-GW032511	Ho-166m	Total	0.34 SK	NA	0.62	NA
PZ-041	SMPZ-041-GW032511	K-40	Filtered	15	15	4.8	7.2
PZ-041	SMPZ-041-GW032511	K-40	Suspended	-7.2 U	8.8	7.1	4.2
PZ-041	SMPZ-041-GW032511	K-40	Total	7.9	NA	8.6	NA
PZ-041	SMPZ-041-GW032511	Na-22	Filtered	-0.21 U	1.2	0.34	0.54
PZ-041	SMPZ-041-GW032511	Na-22	Suspended	-0.14 U	0.66	0.19	0.31
PZ-041	SMPZ-041-GW032511	Na-22	Total	-0.35	NA	0.39	NA
PZ-041	SMPZ-041-GW032511	Nb-94	Filtered	0.07 U	0.96	0.28	0.46
PZ-041	SMPZ-041-GW032511	Nb-94	Suspended	0.17 U	0.52	0.16	0.25
PZ-041	SMPZ-041-GW032511	Nb-94	Total	0.24	NA	0.32	NA
PZ-041	SMPZ-041-GW032511	Np-236	Filtered	0.25 U	1.9	0.58	0.94

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW032511	Np-236	Suspended	-0.31 U	0.95	0.29	0.46
PZ-041	SMPZ-041-GW032511	Np-236	Total	-0.06 SK	NA	0.64	NA
PZ-041	SMPZ-041-GW032511	Np-239	Filtered	0.3 U	5	1.5	2.4
PZ-041	SMPZ-041-GW032511	Np-239	Suspended	0.44 U	2.8	0.84	1.4
PZ-041	SMPZ-041-GW032511	Np-239	Total	0.7	NA	1.7	NA
PZ-041	SMPZ-041-GW032511	Pa-231	Filtered	0.2 U	49	14	24
PZ-041	SMPZ-041-GW032511	Pa-231	Suspended	0 U	20	5.8	9.6
PZ-041	SMPZ-041-GW032511	Pa-231	Total	0.2	NA	15	NA
PZ-041	SMPZ-041-GW032511	Pb-212	Filtered	0.78 U	2.4	0.78	1.2
PZ-041	SMPZ-041-GW032511	Pb-212	Suspended	-0.14 U	0.81	0.38	0.39
PZ-041	SMPZ-041-GW032511	Pb-212	Total	0.64	NA	0.86	NA
PZ-041	SMPZ-041-GW032511	Pb-214	Filtered	0.9 U	2.4	0.86	1.2
PZ-041	SMPZ-041-GW032511	Pb-214	Suspended	0.33 U	1	0.39	0.5
PZ-041	SMPZ-041-GW032511	Pb-214	Total	1.23	NA	0.94	NA
PZ-041	SMPZ-041-GW032511	Sb-125	Filtered	0.5 U	11	3.3	5.5
PZ-041	SMPZ-041-GW032511	Sb-125	Suspended	-0.003 U	3.7	1.1	1.8
PZ-041	SMPZ-041-GW032511	Sb-125	Total	0.5 SK	NA	3.5	NA
PZ-041	SMPZ-041-GW032511	Sn-126	Filtered	0.44 U	1.2	0.36	0.57
PZ-041	SMPZ-041-GW032511	Sn-126	Suspended	-0.004 U	0.6	0.17	0.28
PZ-041	SMPZ-041-GW032511	Sn-126	Total	0.43	NA	0.4	NA
PZ-041	SMPZ-041-GW032511	Sr-90	Filtered	0.025 U	0.21	0.061	0.12
PZ-041	SMPZ-041-GW032511	Sr-90	Suspended	-0.002 U	0.12	0.033	0.065
PZ-041	SMPZ-041-GW032511	Sr-90	Total	0.023	NA	0.07	NA
PZ-041	SMPZ-041-GW032511	Te-125m	Filtered	0.13 U	2.6	0.77	1.3
PZ-041	SMPZ-041-GW032511	Te-125m	Suspended	-0.0008 U	0.85	0.25	0.41
PZ-041	SMPZ-041-GW032511	Te-125m	Total	0.13 SK	NA	0.81	NA
PZ-041	SMPZ-041-GW032511	Th-231	Filtered	0.278	0.007	0.03	0.006
PZ-041	SMPZ-041-GW032511	Th-231	Suspended	0 U	0.0059	0.0017	0.0045
PZ-041	SMPZ-041-GW032511	Th-231	Total	0.278	NA	0.03	NA
PZ-041	SMPZ-041-GW032511	Th-234	Filtered	15.2	22	8	11
PZ-041	SMPZ-041-GW032511	Th-234	Suspended	0 U	5.3	1.6	2.6
PZ-041	SMPZ-041-GW032511	Th-234	Total	15.2	NA	8.2	NA
PZ-041	SMPZ-041-GW032511	Tl-208	Filtered	0.86	1.4	0.52	0.67
PZ-041	SMPZ-041-GW032511	Tl-208	Suspended	-0.4 U	0.7	27	0.3
PZ-041	SMPZ-041-GW032511	Tl-208	Total	0.4	NA	27	NA
PZ-041	SMPZ-041-GW032511	Tm-171	Filtered	-0.3 U	360	110	180
PZ-041	SMPZ-041-GW032511	Tm-171	Suspended	16 U	82	24	40
PZ-041	SMPZ-041-GW032511	Tm-171	Total	20	NA	110	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-041	SMPZ-041-GW032511	U-233/234	Filtered	6.71	0.01	0.31	0.005
PZ-041	SMPZ-041-GW032511	U-233/234	Suspended	0.0167	0.0047	0.0068	0.0036
PZ-041	SMPZ-041-GW032511	U-233/234	Total	6.72	NA	0.31	NA
PZ-041	SMPZ-041-GW032511	U-235/236	Filtered	0.278	0.007	0.03	0.006
PZ-041	SMPZ-041-GW032511	U-235/236	Suspended	0 U	0.0059	0.0017	0.0045
PZ-041	SMPZ-041-GW032511	U-235/236	Total	0.278	NA	0.03	NA
PZ-041	SMPZ-041-GW032511	U-238	Filtered	5.46	0.01	0.25	0.005
PZ-041	SMPZ-041-GW032511	U-238	Suspended	0.0174	0.0047	0.0066	0.0036
PZ-041	SMPZ-041-GW032511	U-238	Total	5.48	NA	0.25	NA
PZ-052	SMPZ-052-GW033111	Ac-227	Filtered	-0.8 U	8.3	2.5	4
PZ-052	SMPZ-052-GW033111	Ac-227	Suspended	-1.24 U	3.1	0.93	1.5
PZ-052	SMPZ-052-GW033111	Ac-227	Total	-2	NA	2.6	NA
PZ-052	SMPZ-052-GW033111	Ac-228	Filtered	3.1	3.4	1.1	1.6
PZ-052	SMPZ-052-GW033111	Ac-228	Suspended	1.48	1.8	0.57	0.84
PZ-052	SMPZ-052-GW033111	Ac-228	Total	4.5	NA	1.2	NA
PZ-052	SMPZ-052-GW033111	Ag-108	Filtered	-0.002 U R	0.082	0.024	0.039
PZ-052	SMPZ-052-GW033111	Ag-108	Suspended	0.0001 U R	0.036	0.01	0.017
PZ-052	SMPZ-052-GW033111	Ag-108	Total	-0.001 R	NA	0.026	NA
PZ-052	SMPZ-052-GW033111	Ag-108m	Filtered	-0.02 U R	0.88	0.26	0.42
PZ-052	SMPZ-052-GW033111	Ag-108m	Suspended	0.0009 U R	0.39	0.11	0.18
PZ-052	SMPZ-052-GW033111	Ag-108m	Total	-0.02 R	NA	0.28	NA
PZ-052	SMPZ-052-GW033111	Ba-133	Filtered	-1.4 U R	9.2	2.7	4.4
PZ-052	SMPZ-052-GW033111	Ba-133	Suspended	-0.9 U R	4.6	1.4	2.2
PZ-052	SMPZ-052-GW033111	Ba-133	Total	-2.2 R	NA	3	NA
PZ-052	SMPZ-052-GW033111	Ba-137m	Filtered	0 U	1.1	0.31	0.52
PZ-052	SMPZ-052-GW033111	Ba-137m	Suspended	0.1 U	0.44	0.13	0.2
PZ-052	SMPZ-052-GW033111	Ba-137m	Total	0.1	NA	0.34	NA
PZ-052	SMPZ-052-GW033111	Bi-212	Filtered	1.9 U	6.9	2	3.2
PZ-052	SMPZ-052-GW033111	Bi-212	Suspended	-1 U	3.7	1.1	1.8
PZ-052	SMPZ-052-GW033111	Bi-212	Total	0.9	NA	2.3	NA
PZ-052	SMPZ-052-GW033111	Bi-214	Filtered	-0.09 U	2.5	0.75	1.2
PZ-052	SMPZ-052-GW033111	Bi-214	Suspended	1.33	1.2	0.38	0.56
PZ-052	SMPZ-052-GW033111	Bi-214	Total	1.24	NA	0.84	NA
PZ-052	SMPZ-052-GW033111	Cd-113m	Filtered	3900 U	13000	3900	6300
PZ-052	SMPZ-052-GW033111	Cd-113m	Suspended	1100 U	4500	1300	2200
PZ-052	SMPZ-052-GW033111	Cd-113m	Total	5000	NA	4100	NA
PZ-052	SMPZ-052-GW033111	Cf-249	Filtered	0.5 U R	5.5	1.6	2.7
PZ-052	SMPZ-052-GW033111	Cf-249	Suspended	-0.65 U R	2.3	0.68	1.1

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW033111	Cf-249	Total	-0.2 R	NA	1.8	NA
PZ-052	SMPZ-052-GW033111	Co-60	Filtered	-0.16 U	1.4	0.4	0.65
PZ-052	SMPZ-052-GW033111	Co-60	Suspended	-0.005 U	0.44	0.12	0.2
PZ-052	SMPZ-052-GW033111	Co-60	Total	-0.16	NA	0.42	NA
PZ-052	SMPZ-052-GW033111	Cs-134	Filtered	-0.43 U	1.2	0.37	0.6
PZ-052	SMPZ-052-GW033111	Cs-134	Suspended	-0.19 U	0.66	0.2	0.32
PZ-052	SMPZ-052-GW033111	Cs-134	Total	-0.62	NA	0.42	NA
PZ-052	SMPZ-052-GW033111	Cs-137	Filtered	0 U	1.2	0.33	0.55
PZ-052	SMPZ-052-GW033111	Cs-137	Suspended	0.11 U	0.46	0.14	0.22
PZ-052	SMPZ-052-GW033111	Cs-137	Total	0.11	NA	0.36	NA
PZ-052	SMPZ-052-GW033111	Eu-152	Filtered	0.42 U	3.1	0.92	1.5
PZ-052	SMPZ-052-GW033111	Eu-152	Suspended	0.16 U	1.4	0.4	0.66
PZ-052	SMPZ-052-GW033111	Eu-152	Total	0.6	NA	1	NA
PZ-052	SMPZ-052-GW033111	Eu-154	Filtered	-1.4 U	8.8	2.6	4.1
PZ-052	SMPZ-052-GW033111	Eu-154	Suspended	1.1 U	4.1	1.2	1.9
PZ-052	SMPZ-052-GW033111	Eu-154	Total	-0.3	NA	2.8	NA
PZ-052	SMPZ-052-GW033111	Eu-155	Filtered	0.87 U	2.7	0.82	1.3
PZ-052	SMPZ-052-GW033111	Eu-155	Suspended	0.13 U	0.94	0.28	0.45
PZ-052	SMPZ-052-GW033111	Eu-155	Total	1	NA	0.87	NA
PZ-052	SMPZ-052-GW033111	gross_alpha	Filtered	29.8	0.5	1.5	0.2
PZ-052	SMPZ-052-GW033111	gross_alpha	Suspended	0.56	0.42	0.17	0.22
PZ-052	SMPZ-052-GW033111	gross_alpha	Total	22.9	NA	1.3	NA
PZ-052	SMPZ-052-GW033111	gross_beta	Filtered	7.3	4.6	1.7	2.7
PZ-052	SMPZ-052-GW033111	gross_beta	Suspended	0.93	0.86	0.29	0.51
PZ-052	SMPZ-052-GW033111	gross_beta	Total	8.3	NA	1.8	NA
PZ-052	SMPZ-052-GW033111	H-3	Total	-32 U	160	46	78
PZ-052	SMPZ-052-GW033111	Ho-166m	Filtered	-0.31 U	2	0.59	0.95
PZ-052	SMPZ-052-GW033111	Ho-166m	Suspended	0 U	1.1	0.31	0.51
PZ-052	SMPZ-052-GW033111	Ho-166m	Total	-0.31	NA	0.67	NA
PZ-052	SMPZ-052-GW033111	K-40	Filtered	8.7	18	5.7	8.5
PZ-052	SMPZ-052-GW033111	K-40	Suspended	-2.6 U	8.7	3.1	4.1
PZ-052	SMPZ-052-GW033111	K-40	Total	6	NA	6.5	NA
PZ-052	SMPZ-052-GW033111	Na-22	Filtered	0.35 U	1.1	0.33	0.51
PZ-052	SMPZ-052-GW033111	Na-22	Suspended	-0.04 U	0.59	0.17	0.27
PZ-052	SMPZ-052-GW033111	Na-22	Total	0.31	NA	0.37	NA
PZ-052	SMPZ-052-GW033111	Nb-94	Filtered	-0.1 U	1.1	0.31	0.51
PZ-052	SMPZ-052-GW033111	Nb-94	Suspended	0.03 U	0.52	0.15	0.25
PZ-052	SMPZ-052-GW033111	Nb-94	Total	-0.07	NA	0.35	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW033111	Np-236	Filtered	0.09 U	2.2	0.64	1.1
PZ-052	SMPZ-052-GW033111	Np-236	Suspended	0.18 U	0.96	0.28	0.46
PZ-052	SMPZ-052-GW033111	Np-236	Total	0.27	NA	0.7	NA
PZ-052	SMPZ-052-GW033111	Np-239	Filtered	-1.6 U	7.8	2.3	3.8
PZ-052	SMPZ-052-GW033111	Np-239	Suspended	0.19 U	2.9	0.84	1.4
PZ-052	SMPZ-052-GW033111	Np-239	Total	-1.4	NA	2.5	NA
PZ-052	SMPZ-052-GW033111	Pa-231	Filtered	0.3 U	52	15	25
PZ-052	SMPZ-052-GW033111	Pa-231	Suspended	3 U	20	6	9.7
PZ-052	SMPZ-052-GW033111	Pa-231	Total	3	NA	16	NA
PZ-052	SMPZ-052-GW033111	Pb-212	Filtered	0.11 U	2.2	0.64	1.1
PZ-052	SMPZ-052-GW033111	Pb-212	Suspended	0.44	0.72	0.29	0.35
PZ-052	SMPZ-052-GW033111	Pb-212	Total	0.55	NA	0.7	NA
PZ-052	SMPZ-052-GW033111	Pb-214	Filtered	1.78	2.2	0.77	1.1
PZ-052	SMPZ-052-GW033111	Pb-214	Suspended	0.36 U	1.1	0.31	0.54
PZ-052	SMPZ-052-GW033111	Pb-214	Total	2.14	NA	0.83	NA
PZ-052	SMPZ-052-GW033111	Sb-125	Filtered	3.1 U	10	3.1	5
PZ-052	SMPZ-052-GW033111	Sb-125	Suspended	0.05 U	3.9	1.1	1.9
PZ-052	SMPZ-052-GW033111	Sb-125	Total	3.2	NA	3.3	NA
PZ-052	SMPZ-052-GW033111	Sn-126	Filtered	0.56	1	0.32	0.49
PZ-052	SMPZ-052-GW033111	Sn-126	Suspended	0.29 U	0.62	0.19	0.3
PZ-052	SMPZ-052-GW033111	Sn-126	Total	0.84	NA	0.37	NA
PZ-052	SMPZ-052-GW033111	Sr-90	Filtered	0.068	0.11	0.034	0.062
PZ-052	SMPZ-052-GW033111	Sr-90	Suspended	0.045	0.066	0.02	0.038
PZ-052	SMPZ-052-GW033111	Sr-90	Total	0.113	NA	0.04	NA
PZ-052	SMPZ-052-GW033111	Te-125m	Filtered	0.73 U	2.4	0.71	1.1
PZ-052	SMPZ-052-GW033111	Te-125m	Suspended	0.01 U	0.89	0.26	0.43
PZ-052	SMPZ-052-GW033111	Te-125m	Total	0.74	NA	0.76	NA
PZ-052	SMPZ-052-GW033111	Th-231	Filtered	0.669	0.017	0.05	0.005
PZ-052	SMPZ-052-GW033111	Th-231	Suspended	0.0005 U	0.016	0.0031	0.0051
PZ-052	SMPZ-052-GW033111	Th-231	Total	0.671	NA	0.051	NA
PZ-052	SMPZ-052-GW033111	Th-234	Filtered	20.7	24	9.2	12
PZ-052	SMPZ-052-GW033111	Th-234	Suspended	-0.07 U	5	1.5	2.4
PZ-052	SMPZ-052-GW033111	Th-234	Total	20.6	NA	9.3	NA
PZ-052	SMPZ-052-GW033111	Tl-208	Filtered	0.52 U	1.3	0.5	0.65
PZ-052	SMPZ-052-GW033111	Tl-208	Suspended	0.01 U	0.61	0.17	0.29
PZ-052	SMPZ-052-GW033111	Tl-208	Total	0.53	NA	0.52	NA
PZ-052	SMPZ-052-GW033111	Tm-171	Filtered	-60 U	350	110	170
PZ-052	SMPZ-052-GW033111	Tm-171	Suspended	50	82	25	40

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-052	SMPZ-052-GW033111	Tm-171	Total	-10	NA	110	NA
PZ-052	SMPZ-052-GW033111	U-233/234	Filtered	14.7	0.006	0.64	0.004
PZ-052	SMPZ-052-GW033111	U-233/234	Suspended	0.0076	0.013	0.0064	0.0041
PZ-052	SMPZ-052-GW033111	U-233/234	Total	14.7	NA	0.64	NA
PZ-052	SMPZ-052-GW033111	U-235/236	Filtered	0.669	0.017	0.05	0.005
PZ-052	SMPZ-052-GW033111	U-235/236	Suspended	0.0005 U	0.016	0.0031	0.0051
PZ-052	SMPZ-052-GW033111	U-235/236	Total	0.669	NA	0.05	NA
PZ-052	SMPZ-052-GW033111	U-238	Filtered	12.9	0.02	0.57	0.006
PZ-052	SMPZ-052-GW033111	U-238	Suspended	0.0099	0.0053	0.0059	0.0041
PZ-052	SMPZ-052-GW033111	U-238	Total	12.9	NA	0.57	NA
PZ-055	SMPZ-055-GW033111	H-3	Total	-44 U	140	42	70
PZ-056	SMPZ-056-GW032811	Ac-227	Filtered	-5 U	9.5	2.9	4.6
PZ-056	SMPZ-056-GW032811	Ac-227	Suspended	0 U	3.4	1	1.7
PZ-056	SMPZ-056-GW032811	Ac-227	Total	-5	NA	3.1	NA
PZ-056	SMPZ-056-GW032811	Ac-228	Filtered	2.1	3.5	1.1	1.6
PZ-056	SMPZ-056-GW032811	Ac-228	Suspended	1.23	1.5	0.48	0.7
PZ-056	SMPZ-056-GW032811	Ac-228	Total	3.3	NA	1.2	NA
PZ-056	SMPZ-056-GW032811	Ag-108	Filtered	-0.016 U	0.094	0.028	0.045
PZ-056	SMPZ-056-GW032811	Ag-108	Suspended	0.005 U	0.038	0.011	0.018
PZ-056	SMPZ-056-GW032811	Ag-108	Total	-0.01	NA	0.03	NA
PZ-056	SMPZ-056-GW032811	Ag-108m	Filtered	-0.17 U	1	0.3	0.48
PZ-056	SMPZ-056-GW032811	Ag-108m	Suspended	0.06 U	0.41	0.12	0.19
PZ-056	SMPZ-056-GW032811	Ag-108m	Total	-0.11	NA	0.32	NA
PZ-056	SMPZ-056-GW032811	Ba-133	Filtered	0.9 U	12	3.4	5.6
PZ-056	SMPZ-056-GW032811	Ba-133	Suspended	0.09 U	4.5	1.3	2.1
PZ-056	SMPZ-056-GW032811	Ba-133	Total	1	NA	3.7	NA
PZ-056	SMPZ-056-GW032811	Ba-137m	Filtered	-0.01 U	1.1	0.32	0.52
PZ-056	SMPZ-056-GW032811	Ba-137m	Suspended	0 U	0.52	0.15	0.25
PZ-056	SMPZ-056-GW032811	Ba-137m	Total	-0.01	NA	0.35	NA
PZ-056	SMPZ-056-GW032811	Bi-212	Filtered	0 U	12	3.5	5.8
PZ-056	SMPZ-056-GW032811	Bi-212	Suspended	1.3 U	3.6	1.1	1.7
PZ-056	SMPZ-056-GW032811	Bi-212	Total	1.3	NA	3.7	NA
PZ-056	SMPZ-056-GW032811	Bi-214	Filtered	0.73 U	2.7	0.95	1.3
PZ-056	SMPZ-056-GW032811	Bi-214	Suspended	0.89	1.2	0.5	0.6
PZ-056	SMPZ-056-GW032811	Bi-214	Total	1.6	NA	1.1	NA
PZ-056	SMPZ-056-GW032811	Cd-113m	Filtered	1900 U	13000	3900	6400
PZ-056	SMPZ-056-GW032811	Cd-113m	Suspended	-700 U	5600	1700	2700
PZ-056	SMPZ-056-GW032811	Cd-113m	Total	1200	NA	4200	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-056	SMPZ-056-GW032811	Cf-249	Filtered	-0.3 U	6.2	1.8	3
PZ-056	SMPZ-056-GW032811	Cf-249	Suspended	-0.47 U	2.4	0.72	1.2
PZ-056	SMPZ-056-GW032811	Cf-249	Total	-0.7	NA	1.9	NA
PZ-056	SMPZ-056-GW032811	Co-60	Filtered	0.21 U	1.4	0.39	0.63
PZ-056	SMPZ-056-GW032811	Co-60	Suspended	0 U	0.42	0.11	0.19
PZ-056	SMPZ-056-GW032811	Co-60	Total	0.21	NA	0.41	NA
PZ-056	SMPZ-056-GW032811	Cs-134	Filtered	-0.25 U	1.1	0.34	0.54
PZ-056	SMPZ-056-GW032811	Cs-134	Suspended	0.258 U	0.66	0.075	0.32
PZ-056	SMPZ-056-GW032811	Cs-134	Total	0.005	NA	0.34	NA
PZ-056	SMPZ-056-GW032811	Cs-137	Filtered	-0.01 U	1.2	0.34	0.55
PZ-056	SMPZ-056-GW032811	Cs-137	Suspended	0 U	0.55	0.16	0.26
PZ-056	SMPZ-056-GW032811	Cs-137	Total	-0.01	NA	0.37	NA
PZ-056	SMPZ-056-GW032811	Eu-152	Filtered	0.24 U	3.3	0.96	1.6
PZ-056	SMPZ-056-GW032811	Eu-152	Suspended	-0.17 U	1.4	0.41	0.67
PZ-056	SMPZ-056-GW032811	Eu-152	Total	0.07	NA	1	NA
PZ-056	SMPZ-056-GW032811	Eu-154	Filtered	-3.5 U	12	3.5	5.6
PZ-056	SMPZ-056-GW032811	Eu-154	Suspended	-0.03 U	4	1.1	1.8
PZ-056	SMPZ-056-GW032811	Eu-154	Total	-3.5	NA	3.7	NA
PZ-056	SMPZ-056-GW032811	Eu-155	Filtered	0.08 U	3.3	0.97	1.6
PZ-056	SMPZ-056-GW032811	Eu-155	Suspended	0.03 U	0.91	0.27	0.44
PZ-056	SMPZ-056-GW032811	Eu-155	Total	0.1	NA	1	NA
PZ-056	SMPZ-056-GW032811	gross_alpha	Filtered	0.75 L	0.78	0.27	0.43
PZ-056	SMPZ-056-GW032811	gross_alpha	Suspended	1.95	0.47	0.28	0.25
PZ-056	SMPZ-056-GW032811	gross_alpha	Total	2.7	NA	0.39	NA
PZ-056	SMPZ-056-GW032811	gross_beta	Filtered	1.87	1.1	0.41	0.67
PZ-056	SMPZ-056-GW032811	gross_beta	Suspended	0.96	1.2	0.4	0.72
PZ-056	SMPZ-056-GW032811	gross_beta	Total	2.83	NA	0.57	NA
PZ-056	SMPZ-056-GW032811	H-3	Total	16 U	150	45	74
PZ-056	SMPZ-056-GW032811	Ho-166m	Filtered	0.62 U	1.4	0.44	0.66
PZ-056	SMPZ-056-GW032811	Ho-166m	Suspended	0.31 U	0.87	0.26	0.41
PZ-056	SMPZ-056-GW032811	Ho-166m	Total	0.93	NA	0.51	NA
PZ-056	SMPZ-056-GW032811	K-40	Filtered	-1.8 U	17	4.7	8
PZ-056	SMPZ-056-GW032811	K-40	Suspended	-5.8 U	8.7	5.3	4.1
PZ-056	SMPZ-056-GW032811	K-40	Total	-7.6	NA	7.1	NA
PZ-056	SMPZ-056-GW032811	Na-22	Filtered	0.07 U	1.4	0.39	0.64
PZ-056	SMPZ-056-GW032811	Na-22	Suspended	0.07 U	0.5	0.14	0.23
PZ-056	SMPZ-056-GW032811	Na-22	Total	0.14	NA	0.42	NA
PZ-056	SMPZ-056-GW032811	Nb-94	Filtered	0.38 U	1.1	0.32	0.51

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-056	SMPZ-056-GW032811	Nb-94	Suspended	-0.14 U	0.55	0.16	0.26
PZ-056	SMPZ-056-GW032811	Nb-94	Total	0.25	NA	0.36	NA
PZ-056	SMPZ-056-GW032811	Np-236	Filtered	1 U	2.5	0.75	1.2
PZ-056	SMPZ-056-GW032811	Np-236	Suspended	-0.18 U	0.95	0.28	0.46
PZ-056	SMPZ-056-GW032811	Np-236	Total	0.82	NA	0.81	NA
PZ-056	SMPZ-056-GW032811	Np-239	Filtered	2.7 U	7.6	2.3	3.7
PZ-056	SMPZ-056-GW032811	Np-239	Suspended	-0.59 U	2.9	0.85	1.4
PZ-056	SMPZ-056-GW032811	Np-239	Total	2.1	NA	2.4	NA
PZ-056	SMPZ-056-GW032811	Pa-231	Filtered	-11 U	55	16	27
PZ-056	SMPZ-056-GW032811	Pa-231	Suspended	-5 U	20	6	9.7
PZ-056	SMPZ-056-GW032811	Pa-231	Total	-16	NA	17	NA
PZ-056	SMPZ-056-GW032811	Pb-212	Filtered	-0.74 U	2.3	0.91	1.1
PZ-056	SMPZ-056-GW032811	Pb-212	Suspended	0.09 U	0.85	0.24	0.41
PZ-056	SMPZ-056-GW032811	Pb-212	Total	-0.64	NA	0.94	NA
PZ-056	SMPZ-056-GW032811	Pb-214	Filtered	-0.6 U	2.8	1.2	1.4
PZ-056	SMPZ-056-GW032811	Pb-214	Suspended	0.45 U	1.1	0.31	0.54
PZ-056	SMPZ-056-GW032811	Pb-214	Total	-0.1	NA	1.3	NA
PZ-056	SMPZ-056-GW032811	Sb-125	Filtered	-0.7 U	13	3.8	6.2
PZ-056	SMPZ-056-GW032811	Sb-125	Suspended	-0.6 U	4.5	1.3	2.2
PZ-056	SMPZ-056-GW032811	Sb-125	Total	-1.3	NA	4	NA
PZ-056	SMPZ-056-GW032811	Sn-126	Filtered	0.27 U	1.3	0.37	0.6
PZ-056	SMPZ-056-GW032811	Sn-126	Suspended	0.22 U	0.62	0.19	0.29
PZ-056	SMPZ-056-GW032811	Sn-126	Total	0.49	NA	0.42	NA
PZ-056	SMPZ-056-GW032811	Sr-90	Filtered	0.018 U	0.085	0.025	0.048
PZ-056	SMPZ-056-GW032811	Sr-90	Suspended	-0.029 U	0.065	0.018	0.037
PZ-056	SMPZ-056-GW032811	Sr-90	Total	-0.011	NA	0.031	NA
PZ-056	SMPZ-056-GW032811	Te-125m	Filtered	-0.15 U	3	0.88	1.4
PZ-056	SMPZ-056-GW032811	Te-125m	Suspended	-0.15 U	1	0.31	0.5
PZ-056	SMPZ-056-GW032811	Te-125m	Total	-0.3	NA	0.93	NA
PZ-056	SMPZ-056-GW032811	Th-231	Filtered	0.295	0.007	0.03	0.005
PZ-056	SMPZ-056-GW032811	Th-231	Suspended	0.0005 U	0.016	0.0031	0.005
PZ-056	SMPZ-056-GW032811	Th-231	Total	0.295	NA	0.03	NA
PZ-056	SMPZ-056-GW032811	Th-234	Filtered	11.2	23	8.4	11
PZ-056	SMPZ-056-GW032811	Th-234	Suspended	1 U	4.8	1.4	2.3
PZ-056	SMPZ-056-GW032811	Th-234	Total	12.2	NA	8.5	NA
PZ-056	SMPZ-056-GW032811	Tl-208	Filtered	-0.05 U	1.4	0.51	0.69
PZ-056	SMPZ-056-GW032811	Tl-208	Suspended	-0.4 U	0.7	7.3	0.3
PZ-056	SMPZ-056-GW032811	Tl-208	Total	-0.4	NA	7.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-056	SMPZ-056-GW032811	Tm-171	Filtered	-54 U	320	95	160
PZ-056	SMPZ-056-GW032811	Tm-171	Suspended	23 U	83	25	40
PZ-056	SMPZ-056-GW032811	Tm-171	Total	-31	NA	98	NA
PZ-056	SMPZ-056-GW032811	U-233/234	Filtered	5.51	0.01	0.25	0.004
PZ-056	SMPZ-056-GW032811	U-233/234	Suspended	0.018	0.013	0.0077	0.0041
PZ-056	SMPZ-056-GW032811	U-233/234	Total	5.53	NA	0.25	NA
PZ-056	SMPZ-056-GW032811	U-235/236	Filtered	0.295	0.007	0.03	0.005
PZ-056	SMPZ-056-GW032811	U-235/236	Suspended	0.0005 U	0.016	0.0031	0.005
PZ-056	SMPZ-056-GW032811	U-235/236	Total	0.295	NA	0.03	NA
PZ-056	SMPZ-056-GW032811	U-238	Filtered	4.57	0.005	0.21	0.004
PZ-056	SMPZ-056-GW032811	U-238	Suspended	0.0278	0.0053	0.0083	0.004
PZ-056	SMPZ-056-GW032811	U-238	Total	4.6	NA	0.21	NA
PZ-098	SMPZ-098-GW032911	Ac-227	Filtered	-8.1 L U	9.6	3	4.7
PZ-098	SMPZ-098-GW032911	Ac-227	Suspended	-0.03 U	4.5	1.3	2.2
PZ-098	SMPZ-098-GW032911	Ac-227	Total	-8.1 L	NA	3.3	NA
PZ-098	SMPZ-098-GW032911	Ac-228	Filtered	-0.06 U	3.5	0.99	1.6
PZ-098	SMPZ-098-GW032911	Ac-228	Suspended	-0.49 U	2.8	0.94	1.3
PZ-098	SMPZ-098-GW032911	Ac-228	Total	-0.6	NA	1.4	NA
PZ-098	SMPZ-098-GW032911	Ag-108	Filtered	-0.013 U R	0.098	0.029	0.047
PZ-098	SMPZ-098-GW032911	Ag-108	Suspended	-0.02 U R	0.06	0.018	0.029
PZ-098	SMPZ-098-GW032911	Ag-108	Total	-0.033 R	NA	0.034	NA
PZ-098	SMPZ-098-GW032911	Ag-108m	Filtered	-0.14 U R	1	0.31	0.5
PZ-098	SMPZ-098-GW032911	Ag-108m	Suspended	-0.21 U R	0.65	0.2	0.31
PZ-098	SMPZ-098-GW032911	Ag-108m	Total	-0.35 R	NA	0.36	NA
PZ-098	SMPZ-098-GW032911	Ba-133	Filtered	1.3 U R	12	3.7	6
PZ-098	SMPZ-098-GW032911	Ba-133	Suspended	1.4 U R	5.8	1.7	2.8
PZ-098	SMPZ-098-GW032911	Ba-133	Total	2.7 R	NA	4	NA
PZ-098	SMPZ-098-GW032911	Ba-137m	Filtered	0.02 U	1.2	0.35	0.57
PZ-098	SMPZ-098-GW032911	Ba-137m	Suspended	-0.02 U	0.72	0.21	0.35
PZ-098	SMPZ-098-GW032911	Ba-137m	Total	-0.005	NA	0.41	NA
PZ-098	SMPZ-098-GW032911	Bi-212	Filtered	12.3	5.6	2.9	2.5
PZ-098	SMPZ-098-GW032911	Bi-212	Suspended	1.8 U	5.7	1.7	2.7
PZ-098	SMPZ-098-GW032911	Bi-212	Total	14.1	NA	3.3	NA
PZ-098	SMPZ-098-GW032911	Bi-214	Filtered	0.5 U	2.9	1	1.4
PZ-098	SMPZ-098-GW032911	Bi-214	Suspended	1.42	1.6	0.64	0.79
PZ-098	SMPZ-098-GW032911	Bi-214	Total	1.9	NA	1.2	NA
PZ-098	SMPZ-098-GW032911	Cd-113m	Filtered	100 U	14000	4200	6900
PZ-098	SMPZ-098-GW032911	Cd-113m	Suspended	1100 U	6500	1900	3100

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW032911	Cd-113m	Total	1200	NA	4600	NA
PZ-098	SMPZ-098-GW032911	Cf-249	Filtered	-0.03 U R	5.8	1.7	2.8
PZ-098	SMPZ-098-GW032911	Cf-249	Suspended	0.06 U R	3.1	0.91	1.5
PZ-098	SMPZ-098-GW032911	Cf-249	Total	0.03 R	NA	1.9	NA
PZ-098	SMPZ-098-GW032911	Co-60	Filtered	0.06 U	1.3	0.37	0.61
PZ-098	SMPZ-098-GW032911	Co-60	Suspended	0 U	0.97	0.28	0.46
PZ-098	SMPZ-098-GW032911	Co-60	Total	0.06	NA	0.46	NA
PZ-098	SMPZ-098-GW032911	Cs-134	Filtered	-0.24 U	1.2	0.34	0.55
PZ-098	SMPZ-098-GW032911	Cs-134	Suspended	-0.12 U	0.79	0.23	0.38
PZ-098	SMPZ-098-GW032911	Cs-134	Total	-0.35	NA	0.41	NA
PZ-098	SMPZ-098-GW032911	Cs-137	Filtered	0.02 U	1.3	0.37	0.61
PZ-098	SMPZ-098-GW032911	Cs-137	Suspended	-0.02 U	0.76	0.22	0.37
PZ-098	SMPZ-098-GW032911	Cs-137	Total	-0.005	NA	0.43	NA
PZ-098	SMPZ-098-GW032911	Eu-152	Filtered	0.34 U	3.2	0.93	1.5
PZ-098	SMPZ-098-GW032911	Eu-152	Suspended	0.07 U	1.9	0.55	0.91
PZ-098	SMPZ-098-GW032911	Eu-152	Total	0.4	NA	1.1	NA
PZ-098	SMPZ-098-GW032911	Eu-154	Filtered	0.2 U	9.7	2.7	4.5
PZ-098	SMPZ-098-GW032911	Eu-154	Suspended	1.5 U	5.7	1.7	2.7
PZ-098	SMPZ-098-GW032911	Eu-154	Total	1.7	NA	3.2	NA
PZ-098	SMPZ-098-GW032911	Eu-155	Filtered	0.84 U	3.3	0.99	1.6
PZ-098	SMPZ-098-GW032911	Eu-155	Suspended	-0.1 U	1.4	0.41	0.68
PZ-098	SMPZ-098-GW032911	Eu-155	Total	0.7	NA	1.1	NA
PZ-098	SMPZ-098-GW032911	gross_alpha	Filtered	8.77	0.41	0.63	0.21
PZ-098	SMPZ-098-GW032911	gross_alpha	Suspended	0.26 U	0.51	0.16	0.27
PZ-098	SMPZ-098-GW032911	gross_alpha	Total	9.03	NA	0.65	NA
PZ-098	SMPZ-098-GW032911	gross_beta	Filtered	3.42	2.8	0.98	1.6
PZ-098	SMPZ-098-GW032911	gross_beta	Suspended	0.68	0.87	0.28	0.52
PZ-098	SMPZ-098-GW032911	gross_beta	Total	4.1	NA	1	NA
PZ-098	SMPZ-098-GW032911	H-3	Total	-20 U	140	41	68
PZ-098	SMPZ-098-GW032911	Ho-166m	Filtered	0.1 U	1.5	0.42	0.69
PZ-098	SMPZ-098-GW032911	Ho-166m	Suspended	0.3 U	1.1	0.33	0.54
PZ-098	SMPZ-098-GW032911	Ho-166m	Total	0.4	NA	0.54	NA
PZ-098	SMPZ-098-GW032911	K-40	Filtered	-11 U	18	16	9
PZ-098	SMPZ-098-GW032911	K-40	Suspended	-1 U	12	3.9	5.9
PZ-098	SMPZ-098-GW032911	K-40	Total	-12	NA	16	NA
PZ-098	SMPZ-098-GW032911	Na-22	Filtered	-0.003 U	1.2	0.35	0.57
PZ-098	SMPZ-098-GW032911	Na-22	Suspended	0 U	1	0.29	0.48
PZ-098	SMPZ-098-GW032911	Na-22	Total	-0.003	NA	0.45	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW032911	Nb-94	Filtered	0.002 U	1.1	0.31	0.51
PZ-098	SMPZ-098-GW032911	Nb-94	Suspended	-0.17 U	0.69	0.2	0.33
PZ-098	SMPZ-098-GW032911	Nb-94	Total	-0.17	NA	0.37	NA
PZ-098	SMPZ-098-GW032911	Np-236	Filtered	-0.48 U	3	0.9	1.5
PZ-098	SMPZ-098-GW032911	Np-236	Suspended	-0.16 U	1.3	0.38	0.62
PZ-098	SMPZ-098-GW032911	Np-236	Total	-0.64	NA	0.98	NA
PZ-098	SMPZ-098-GW032911	Np-239	Filtered	0.4 U	7.7	2.3	3.7
PZ-098	SMPZ-098-GW032911	Np-239	Suspended	0.7 U	3.7	1.1	1.8
PZ-098	SMPZ-098-GW032911	Np-239	Total	1.1	NA	2.5	NA
PZ-098	SMPZ-098-GW032911	Pa-231	Filtered	15 U	51	15	25
PZ-098	SMPZ-098-GW032911	Pa-231	Suspended	-3.4 U	27	7.9	13
PZ-098	SMPZ-098-GW032911	Pa-231	Total	11	NA	17	NA
PZ-098	SMPZ-098-GW032911	Pb-212	Filtered	0.61 U	2.4	0.77	1.2
PZ-098	SMPZ-098-GW032911	Pb-212	Suspended	0.17 U	1.1	0.36	0.52
PZ-098	SMPZ-098-GW032911	Pb-212	Total	0.78	NA	0.84	NA
PZ-098	SMPZ-098-GW032911	Pb-214	Filtered	1.4	2.6	1	1.2
PZ-098	SMPZ-098-GW032911	Pb-214	Suspended	1.53	1.4	0.56	0.67
PZ-098	SMPZ-098-GW032911	Pb-214	Total	2.9	NA	1.2	NA
PZ-098	SMPZ-098-GW032911	Sb-125	Filtered	-3 U	13	4	6.4
PZ-098	SMPZ-098-GW032911	Sb-125	Suspended	-0.9 U	5.6	1.7	2.7
PZ-098	SMPZ-098-GW032911	Sb-125	Total	-3.9	NA	4.3	NA
PZ-098	SMPZ-098-GW032911	Sn-126	Filtered	-0.007 U	1.3	0.36	0.6
PZ-098	SMPZ-098-GW032911	Sn-126	Suspended	0.29 U	0.8	0.24	0.38
PZ-098	SMPZ-098-GW032911	Sn-126	Total	0.28	NA	0.44	NA
PZ-098	SMPZ-098-GW032911	Sr-90	Filtered	0.026 U	0.16	0.046	0.083
PZ-098	SMPZ-098-GW032911	Sr-90	Suspended	0.006 U	0.055	0.016	0.031
PZ-098	SMPZ-098-GW032911	Sr-90	Total	0.032	NA	0.049	NA
PZ-098	SMPZ-098-GW032911	Te-125m	Filtered	-0.7 U	3.1	0.92	1.5
PZ-098	SMPZ-098-GW032911	Te-125m	Suspended	-0.21 U	1.3	0.39	0.63
PZ-098	SMPZ-098-GW032911	Te-125m	Total	-0.912	NA	0.996	NA
PZ-098	SMPZ-098-GW032911	Th-231	Filtered	0.239	0.007	0.026	0.006
PZ-098	SMPZ-098-GW032911	Th-231	Suspended	0.0049 U	0.0066	0.0035	0.0051
PZ-098	SMPZ-098-GW032911	Th-231	Total	0.244	NA	0.026	NA
PZ-098	SMPZ-098-GW032911	Th-234	Filtered	9.6 U	20	6.6	9.8
PZ-098	SMPZ-098-GW032911	Th-234	Suspended	3.2 U	8.7	2.8	4.3
PZ-098	SMPZ-098-GW032911	Th-234	Total	12.8	NA	7.1	NA
PZ-098	SMPZ-098-GW032911	Tl-208	Filtered	0.74	1.5	0.56	0.71
PZ-098	SMPZ-098-GW032911	Tl-208	Suspended	-0.16 U	0.71	0.29	0.34

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-098	SMPZ-098-GW032911	Tl-208	Total	0.58	NA	0.63	NA
PZ-098	SMPZ-098-GW032911	Tm-171	Filtered	166	320	97	150
PZ-098	SMPZ-098-GW032911	Tm-171	Suspended	55	100	31	50
PZ-098	SMPZ-098-GW032911	Tm-171	Total	220	NA	100	NA
PZ-098	SMPZ-098-GW032911	U-233/234	Filtered	5.54	0.01	0.25	0.005
PZ-098	SMPZ-098-GW032911	U-233/234	Suspended	0.0115	0.013	0.007	0.0041
PZ-098	SMPZ-098-GW032911	U-233/234	Total	5.55	NA	0.25	NA
PZ-098	SMPZ-098-GW032911	U-235/236	Filtered	0.239	0.007	0.026	0.006
PZ-098	SMPZ-098-GW032911	U-235/236	Suspended	0.0049 U	0.0066	0.0035	0.0051
PZ-098	SMPZ-098-GW032911	U-235/236	Total	0.244	NA	0.026	NA
PZ-098	SMPZ-098-GW032911	U-238	Filtered	5.26	0.01	0.24	0.004
PZ-098	SMPZ-098-GW032911	U-238	Suspended	0.0083	0.013	0.0061	0.0041
PZ-098	SMPZ-098-GW032911	U-238	Total	5.27	NA	0.24	NA
PZ-100	SMPZ-100-GW031811	Ac-227	Filtered	-0.2 U	13	3.8	6.3
PZ-100	SMPZ-100-GW031811	Ac-227	Suspended	-2.1 U	4.1	1.3	2
PZ-100	SMPZ-100-GW031811	Ac-227	Total	-2.2	NA	4	NA
PZ-100	SMPZ-100-GW031811	Ac-228	Filtered	3.5	4.6	1.5	2.1
PZ-100	SMPZ-100-GW031811	Ac-228	Suspended	1.5	2.2	0.68	0.98
PZ-100	SMPZ-100-GW031811	Ac-228	Total	5	NA	1.6	NA
PZ-100	SMPZ-100-GW031811	Ag-108	Filtered	0.032 U	0.11	0.032	0.05
PZ-100	SMPZ-100-GW031811	Ag-108	Suspended	0.015 U	0.035	0.01	0.016
PZ-100	SMPZ-100-GW031811	Ag-108	Total	0.047	NA	0.033	NA
PZ-100	SMPZ-100-GW031811	Ag-108m	Filtered	0.34 U	1.1	0.34	0.54
PZ-100	SMPZ-100-GW031811	Ag-108m	Suspended	0.16 U	0.37	0.11	0.17
PZ-100	SMPZ-100-GW031811	Ag-108m	Total	0.5	NA	0.36	NA
PZ-100	SMPZ-100-GW031811	Ba-133	Filtered	0.8 U	12	3.5	5.7
PZ-100	SMPZ-100-GW031811	Ba-133	Suspended	2.1	4.1	1.3	1.9
PZ-100	SMPZ-100-GW031811	Ba-133	Total	2.8	NA	3.7	NA
PZ-100	SMPZ-100-GW031811	Ba-137m	Filtered	0.1 U	1.3	0.37	0.6
PZ-100	SMPZ-100-GW031811	Ba-137m	Suspended	-0.002 U	0.58	0.16	0.27
PZ-100	SMPZ-100-GW031811	Ba-137m	Total	0.09	NA	0.4	NA
PZ-100	SMPZ-100-GW031811	Bi-212	Filtered	-7 U	14	33	6
PZ-100	SMPZ-100-GW031811	Bi-212	Suspended	-1.7 U	5.8	3.9	2.7
PZ-100	SMPZ-100-GW031811	Bi-212	Total	-8	NA	34	NA
PZ-100	SMPZ-100-GW031811	Bi-214	Filtered	0.04 U	3.7	0.96	1.8
PZ-100	SMPZ-100-GW031811	Bi-214	Suspended	1.18	1.4	0.5	0.68
PZ-100	SMPZ-100-GW031811	Bi-214	Total	1.2	NA	1.1	NA
PZ-100	SMPZ-100-GW031811	Cd-113m	Filtered	1000 U	16000	4700	7800

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW031811	Cd-113m	Suspended	-1500 U	6300	1900	3000
PZ-100	SMPZ-100-GW031811	Cd-113m	Total	-400	NA	5100	NA
PZ-100	SMPZ-100-GW031811	Cf-249	Filtered	0.3 U	6.3	1.8	3
PZ-100	SMPZ-100-GW031811	Cf-249	Suspended	-0.72 U	3.1	0.91	1.5
PZ-100	SMPZ-100-GW031811	Cf-249	Total	-0.5	NA	2	NA
PZ-100	SMPZ-100-GW031811	Co-60	Filtered	0.2 U	1.8	0.51	0.83
PZ-100	SMPZ-100-GW031811	Co-60	Suspended	0.31 U	0.75	0.22	0.34
PZ-100	SMPZ-100-GW031811	Co-60	Total	0.5	NA	0.56	NA
PZ-100	SMPZ-100-GW031811	Cs-134	Filtered	-0.24 U	1.6	0.46	0.74
PZ-100	SMPZ-100-GW031811	Cs-134	Suspended	0.08 U	0.68	0.2	0.32
PZ-100	SMPZ-100-GW031811	Cs-134	Total	-0.17	NA	0.5	NA
PZ-100	SMPZ-100-GW031811	Cs-137	Filtered	0.1 U	1.4	0.39	0.63
PZ-100	SMPZ-100-GW031811	Cs-137	Suspended	-0.002 U	0.61	0.17	0.28
PZ-100	SMPZ-100-GW031811	Cs-137	Total	0.1	NA	0.43	NA
PZ-100	SMPZ-100-GW031811	Eu-152	Filtered	0.7 U	4	1.2	1.9
PZ-100	SMPZ-100-GW031811	Eu-152	Suspended	0.51 U	1.5	0.45	0.71
PZ-100	SMPZ-100-GW031811	Eu-152	Total	1.2	NA	1.3	NA
PZ-100	SMPZ-100-GW031811	Eu-154	Filtered	-2.7 U	14	4.1	6.6
PZ-100	SMPZ-100-GW031811	Eu-154	Suspended	0.8 U	5	1.4	2.3
PZ-100	SMPZ-100-GW031811	Eu-154	Total	-1.9	NA	4.4	NA
PZ-100	SMPZ-100-GW031811	Eu-155	Filtered	-0.75 U	3.2	0.94	1.5
PZ-100	SMPZ-100-GW031811	Eu-155	Suspended	0.06 U	0.89	0.26	0.43
PZ-100	SMPZ-100-GW031811	Eu-155	Total	-0.69	NA	0.98	NA
PZ-100	SMPZ-100-GW031811	gross_alpha	Filtered	25.9 L	0.5	1.4	0.3
PZ-100	SMPZ-100-GW031811	gross_alpha	Suspended	1	0.44	0.21	0.23
PZ-100	SMPZ-100-GW031811	gross_alpha	Total	26.9	NA	1.4	NA
PZ-100	SMPZ-100-GW031811	gross_beta	Filtered	9.1	4.1	1.6	2.3
PZ-100	SMPZ-100-GW031811	gross_beta	Suspended	0.96	1.1	0.36	0.67
PZ-100	SMPZ-100-GW031811	gross_beta	Total	10.1	NA	1.7	NA
PZ-100	SMPZ-100-GW031811	H-3	Total	-30 U	190	56	94
PZ-100	SMPZ-100-GW031811	Ho-166m	Filtered	-0.05 U	2.2	0.61	1
PZ-100	SMPZ-100-GW031811	Ho-166m	Suspended	-0.04 U	0.95	0.27	0.44
PZ-100	SMPZ-100-GW031811	Ho-166m	Total	-0.1	NA	0.67	NA
PZ-100	SMPZ-100-GW031811	K-40	Filtered	-14 U	23	19	11
PZ-100	SMPZ-100-GW031811	K-40	Suspended	2.8 U	9.8	2.5	4.5
PZ-100	SMPZ-100-GW031811	K-40	Total	-12	NA	19	NA
PZ-100	SMPZ-100-GW031811	Na-22	Filtered	-0.04 U	1.8	0.49	0.81
PZ-100	SMPZ-100-GW031811	Na-22	Suspended	0.21 U	0.74	0.22	0.33

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW031811	Na-22	Total	0.17	NA	0.54	NA
PZ-100	SMPZ-100-GW031811	Nb-94	Filtered	-0.03 U	1.2	0.35	0.58
PZ-100	SMPZ-100-GW031811	Nb-94	Suspended	-0.08 U	0.67	0.19	0.31
PZ-100	SMPZ-100-GW031811	Nb-94	Total	-0.11	NA	0.4	NA
PZ-100	SMPZ-100-GW031811	Np-236	Filtered	-0.55 U	3.1	0.91	1.5
PZ-100	SMPZ-100-GW031811	Np-236	Suspended	-0.02 U	1	0.31	0.5
PZ-100	SMPZ-100-GW031811	Np-236	Total	-0.56	NA	0.96	NA
PZ-100	SMPZ-100-GW031811	Np-239	Filtered	-0.3 U	8.9	2.6	4.3
PZ-100	SMPZ-100-GW031811	Np-239	Suspended	-0.02 U	3.2	0.94	1.5
PZ-100	SMPZ-100-GW031811	Np-239	Total	-0.4	NA	2.8	NA
PZ-100	SMPZ-100-GW031811	Pa-231	Filtered	1 U	71	21	34
PZ-100	SMPZ-100-GW031811	Pa-231	Suspended	9.7 U	24	7.1	11
PZ-100	SMPZ-100-GW031811	Pa-231	Total	11	NA	22	NA
PZ-100	SMPZ-100-GW031811	Pb-212	Filtered	1.86	2.3	0.74	1.1
PZ-100	SMPZ-100-GW031811	Pb-212	Suspended	0.55	1	0.37	0.5
PZ-100	SMPZ-100-GW031811	Pb-212	Total	2.41	NA	0.83	NA
PZ-100	SMPZ-100-GW031811	Pb-214	Filtered	1.1 U	3.3	1.2	1.6
PZ-100	SMPZ-100-GW031811	Pb-214	Suspended	0.64	1.3	0.42	0.6
PZ-100	SMPZ-100-GW031811	Pb-214	Total	1.7	NA	1.3	NA
PZ-100	SMPZ-100-GW031811	Sb-125	Filtered	-2.5 U	14	4.1	6.7
PZ-100	SMPZ-100-GW031811	Sb-125	Suspended	0.5 U	4.8	1.4	2.3
PZ-100	SMPZ-100-GW031811	Sb-125	Total	-2	NA	4.4	NA
PZ-100	SMPZ-100-GW031811	Sn-126	Filtered	0.35 U	1.5	0.45	0.72
PZ-100	SMPZ-100-GW031811	Sn-126	Suspended	0.29 U	0.69	0.21	0.32
PZ-100	SMPZ-100-GW031811	Sn-126	Total	0.64	NA	0.5	NA
PZ-100	SMPZ-100-GW031811	Sr-90	Filtered	0.115 U	0.25	0.076	0.15
PZ-100	SMPZ-100-GW031811	Sr-90	Suspended	-0.038 U	0.18	0.049	0.11
PZ-100	SMPZ-100-GW031811	Sr-90	Total	0.076	NA	0.09	NA
PZ-100	SMPZ-100-GW031811	Te-125m	Filtered	-0.58 U	3.2	0.96	1.6
PZ-100	SMPZ-100-GW031811	Te-125m	Suspended	0.12 U	1.1	0.33	0.54
PZ-100	SMPZ-100-GW031811	Te-125m	Total	-0.5	NA	1	NA
PZ-100	SMPZ-100-GW031811	Th-231	Filtered	0.623	0.008	0.051	0.006
PZ-100	SMPZ-100-GW031811	Th-231	Suspended	0 U	0.0061	0.0018	0.0047
PZ-100	SMPZ-100-GW031811	Th-231	Total	0.623	NA	0.051	NA
PZ-100	SMPZ-100-GW031811	Th-234	Filtered	12.9	23	7.6	11
PZ-100	SMPZ-100-GW031811	Th-234	Suspended	-1.8 U	6.8	2.6	3.3
PZ-100	SMPZ-100-GW031811	Th-234	Total	11	NA	8.1	NA
PZ-100	SMPZ-100-GW031811	Tl-208	Filtered	0.93	1.5	0.46	0.68

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-100	SMPZ-100-GW031811	Tl-208	Suspended	0.5	0.66	0.22	0.31
PZ-100	SMPZ-100-GW031811	Tl-208	Total	1.43	NA	0.51	NA
PZ-100	SMPZ-100-GW031811	Tm-171	Filtered	29 U	330	98	160
PZ-100	SMPZ-100-GW031811	Tm-171	Suspended	-21 U	95	28	46
PZ-100	SMPZ-100-GW031811	Tm-171	Total	7	NA	100	NA
PZ-100	SMPZ-100-GW031811	U-233/234	Filtered	15	0.007	0.66	0.005
PZ-100	SMPZ-100-GW031811	U-233/234	Suspended	0.027	0.015	0.0088	0.0053
PZ-100	SMPZ-100-GW031811	U-233/234	Total	15	NA	0.66	NA
PZ-100	SMPZ-100-GW031811	U-235/236	Filtered	0.623	0.008	0.051	0.006
PZ-100	SMPZ-100-GW031811	U-235/236	Suspended	0 U	0.0061	0.0018	0.0047
PZ-100	SMPZ-100-GW031811	U-235/236	Total	0.623	NA	0.051	NA
PZ-100	SMPZ-100-GW031811	U-238	Filtered	13.7	0.007	0.6	0.005
PZ-100	SMPZ-100-GW031811	U-238	Suspended	0.0215	0.0049	0.0072	0.0037
PZ-100	SMPZ-100-GW031811	U-238	Total	13.7	NA	0.6	NA
PZ-101	SMPZ-101-GW032811	Ac-227	Filtered	-1.3 U	7.5	2.2	3.6
PZ-101	SMPZ-101-GW032811	Ac-227	Suspended	0 U	5.2	1.5	2.5
PZ-101	SMPZ-101-GW032811	Ac-227	Total	-1.3	NA	2.7	NA
PZ-101	SMPZ-101-GW032811	Ac-228	Filtered	2.6	4	1.2	1.9
PZ-101	SMPZ-101-GW032811	Ac-228	Suspended	0.29 U	2.9	0.74	1.4
PZ-101	SMPZ-101-GW032811	Ac-228	Total	2.9	NA	1.5	NA
PZ-101	SMPZ-101-GW032811	Ag-108	Filtered	0.023 U	0.081	0.024	0.038
PZ-101	SMPZ-101-GW032811	Ag-108	Suspended	0.014 U	0.047	0.014	0.023
PZ-101	SMPZ-101-GW032811	Ag-108	Total	0.038	NA	0.028	NA
PZ-101	SMPZ-101-GW032811	Ag-108m	Filtered	0.25 U	0.87	0.26	0.41
PZ-101	SMPZ-101-GW032811	Ag-108m	Suspended	0.15 U	0.51	0.15	0.24
PZ-101	SMPZ-101-GW032811	Ag-108m	Total	0.4	NA	0.3	NA
PZ-101	SMPZ-101-GW032811	Ba-133	Filtered	-0.2 U	13	3.8	6.3
PZ-101	SMPZ-101-GW032811	Ba-133	Suspended	-0.06 U	5.8	1.7	2.8
PZ-101	SMPZ-101-GW032811	Ba-133	Total	-0.3	NA	4.2	NA
PZ-101	SMPZ-101-GW032811	Ba-137m	Filtered	0.38 U	1.1	0.33	0.52
PZ-101	SMPZ-101-GW032811	Ba-137m	Suspended	0.17 U	0.68	0.2	0.32
PZ-101	SMPZ-101-GW032811	Ba-137m	Total	0.55	NA	0.39	NA
PZ-101	SMPZ-101-GW032811	Bi-212	Filtered	3 U	9.3	2.8	4.4
PZ-101	SMPZ-101-GW032811	Bi-212	Suspended	1.3 U	5.8	1.7	2.8
PZ-101	SMPZ-101-GW032811	Bi-212	Total	4.3	NA	3.3	NA
PZ-101	SMPZ-101-GW032811	Bi-214	Filtered	-1 U	3.1	1.5	1.5
PZ-101	SMPZ-101-GW032811	Bi-214	Suspended	2.22	1.5	0.62	0.74
PZ-101	SMPZ-101-GW032811	Bi-214	Total	1.2	NA	1.6	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-101	SMPZ-101-GW032811	Cd-113m	Filtered	-900 U	15000	4400	7200
PZ-101	SMPZ-101-GW032811	Cd-113m	Suspended	100 U	7300	2100	3500
PZ-101	SMPZ-101-GW032811	Cd-113m	Total	-700	NA	4900	NA
PZ-101	SMPZ-101-GW032811	Cf-249	Filtered	-1.4 U	5.9	1.8	2.8
PZ-101	SMPZ-101-GW032811	Cf-249	Suspended	-0.19 U	3.2	0.94	1.5
PZ-101	SMPZ-101-GW032811	Cf-249	Total	-1.6	NA	2	NA
PZ-101	SMPZ-101-GW032811	Co-60	Filtered	-0.29 U	1.4	0.4	0.64
PZ-101	SMPZ-101-GW032811	Co-60	Suspended	0.05 U	0.71	0.2	0.33
PZ-101	SMPZ-101-GW032811	Co-60	Total	-0.24	NA	0.45	NA
PZ-101	SMPZ-101-GW032811	Cs-134	Filtered	-0.34 U	1.3	0.38	0.6
PZ-101	SMPZ-101-GW032811	Cs-134	Suspended	0.25 U	0.7	0.21	0.34
PZ-101	SMPZ-101-GW032811	Cs-134	Total	-0.09	NA	0.43	NA
PZ-101	SMPZ-101-GW032811	Cs-137	Filtered	0.4 U	1.2	0.35	0.55
PZ-101	SMPZ-101-GW032811	Cs-137	Suspended	0.18 U	0.72	0.21	0.34
PZ-101	SMPZ-101-GW032811	Cs-137	Total	0.58	NA	0.41	NA
PZ-101	SMPZ-101-GW032811	Eu-152	Filtered	1.42	2.8	0.86	1.3
PZ-101	SMPZ-101-GW032811	Eu-152	Suspended	-0.48 U	1.9	0.57	0.92
PZ-101	SMPZ-101-GW032811	Eu-152	Total	0.9	NA	1	NA
PZ-101	SMPZ-101-GW032811	Eu-154	Filtered	0.3 U	9.5	2.7	4.4
PZ-101	SMPZ-101-GW032811	Eu-154	Suspended	0.6 U	6.2	1.8	2.9
PZ-101	SMPZ-101-GW032811	Eu-154	Total	0.9	NA	3.2	NA
PZ-101	SMPZ-101-GW032811	Eu-155	Filtered	0.2 U	3	0.89	1.5
PZ-101	SMPZ-101-GW032811	Eu-155	Suspended	-0.29 U	1.4	0.42	0.68
PZ-101	SMPZ-101-GW032811	Eu-155	Total	-0.09	NA	0.99	NA
PZ-101	SMPZ-101-GW032811	gross_alpha	Filtered	7.91 L	0.67	0.69	0.36
PZ-101	SMPZ-101-GW032811	gross_alpha	Suspended	5.08	0.57	0.52	0.3
PZ-101	SMPZ-101-GW032811	gross_alpha	Total	13	NA	0.86	NA
PZ-101	SMPZ-101-GW032811	gross_beta	Filtered	2.33	2.3	0.76	1.3
PZ-101	SMPZ-101-GW032811	gross_beta	Suspended	8.27	1.2	0.7	0.67
PZ-101	SMPZ-101-GW032811	gross_beta	Total	10.6	NA	1	NA
PZ-101	SMPZ-101-GW032811	H-3	Total	46 U	150	45	72
PZ-101	SMPZ-101-GW032811	Ho-166m	Filtered	0.004 U	1.8	0.52	0.85
PZ-101	SMPZ-101-GW032811	Ho-166m	Suspended	0 U	1.3	0.36	0.6
PZ-101	SMPZ-101-GW032811	Ho-166m	Total	0.004	NA	0.63	NA
PZ-101	SMPZ-101-GW032811	K-40	Filtered	2.1 U	15	3.9	7
PZ-101	SMPZ-101-GW032811	K-40	Suspended	-3.9 U	13	3.9	6.2
PZ-101	SMPZ-101-GW032811	K-40	Total	-1.8	NA	5.5	NA
PZ-101	SMPZ-101-GW032811	Na-22	Filtered	-0.08 U	1.4	0.39	0.63

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-101	SMPZ-101-GW032811	Na-22	Suspended	0.03 U	0.59	0.17	0.27
PZ-101	SMPZ-101-GW032811	Na-22	Total	-0.05	NA	0.42	NA
PZ-101	SMPZ-101-GW032811	Nb-94	Filtered	-0.001 U	1.1	0.33	0.54
PZ-101	SMPZ-101-GW032811	Nb-94	Suspended	-0.02 U	0.75	0.22	0.36
PZ-101	SMPZ-101-GW032811	Nb-94	Total	-0.02	NA	0.4	NA
PZ-101	SMPZ-101-GW032811	Np-236	Filtered	-0.05 U	3	0.88	1.5
PZ-101	SMPZ-101-GW032811	Np-236	Suspended	0.03 U	1.3	0.38	0.63
PZ-101	SMPZ-101-GW032811	Np-236	Total	-0.01	NA	0.96	NA
PZ-101	SMPZ-101-GW032811	Np-239	Filtered	1.5 U	7.6	2.3	3.7
PZ-101	SMPZ-101-GW032811	Np-239	Suspended	-0.27 U	3.3	0.98	1.6
PZ-101	SMPZ-101-GW032811	Np-239	Total	1.2	NA	2.5	NA
PZ-101	SMPZ-101-GW032811	Pa-231	Filtered	12 U	54	16	26
PZ-101	SMPZ-101-GW032811	Pa-231	Suspended	0.3 U	25	7.3	12
PZ-101	SMPZ-101-GW032811	Pa-231	Total	12	NA	18	NA
PZ-101	SMPZ-101-GW032811	Pb-212	Filtered	1.07 U	2.5	0.88	1.2
PZ-101	SMPZ-101-GW032811	Pb-212	Suspended	0.84	1.2	0.45	0.57
PZ-101	SMPZ-101-GW032811	Pb-212	Total	1.91	NA	0.99	NA
PZ-101	SMPZ-101-GW032811	Pb-214	Filtered	2.11	2.5	0.99	1.2
PZ-101	SMPZ-101-GW032811	Pb-214	Suspended	0.99	1.3	0.49	0.63
PZ-101	SMPZ-101-GW032811	Pb-214	Total	3.1	NA	1.1	NA
PZ-101	SMPZ-101-GW032811	Sb-125	Filtered	0.2 U	13	3.7	6.1
PZ-101	SMPZ-101-GW032811	Sb-125	Suspended	1.7 U	5.4	1.6	2.6
PZ-101	SMPZ-101-GW032811	Sb-125	Total	1.9	NA	4.1	NA
PZ-101	SMPZ-101-GW032811	Sn-126	Filtered	0.56 U	1.3	0.39	0.6
PZ-101	SMPZ-101-GW032811	Sn-126	Suspended	0.2 U	0.78	0.23	0.37
PZ-101	SMPZ-101-GW032811	Sn-126	Total	0.76	NA	0.45	NA
PZ-101	SMPZ-101-GW032811	Sr-90	Filtered	0.007 U	0.22	0.064	0.13
PZ-101	SMPZ-101-GW032811	Sr-90	Suspended	0.071	0.11	0.035	0.064
PZ-101	SMPZ-101-GW032811	Sr-90	Total	0.078	NA	0.073	NA
PZ-101	SMPZ-101-GW032811	Te-125m	Filtered	0.04 U	2.9	0.86	1.4
PZ-101	SMPZ-101-GW032811	Te-125m	Suspended	0.39 U	1.3	0.38	0.61
PZ-101	SMPZ-101-GW032811	Te-125m	Total	0.43	NA	0.94	NA
PZ-101	SMPZ-101-GW032811	Th-231	Filtered	0.0053	0.016	0.0046	0.0051
PZ-101	SMPZ-101-GW032811	Th-231	Suspended	0.001 U	0.02	0.0043	0.0071
PZ-101	SMPZ-101-GW032811	Th-231	Total	0.0063	NA	0.0064	NA
PZ-101	SMPZ-101-GW032811	Th-234	Filtered	8 U	21	7.2	10
PZ-101	SMPZ-101-GW032811	Th-234	Suspended	0.3 U	9	3	4.4
PZ-101	SMPZ-101-GW032811	Th-234	Total	8.3	NA	7.8	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-101	SMPZ-101-GW032811	Tl-208	Filtered	0.18 U	1.4	0.5	0.68
PZ-101	SMPZ-101-GW032811	Tl-208	Suspended	-0.42 U	0.96	0.6	0.47
PZ-101	SMPZ-101-GW032811	Tl-208	Total	-0.23	NA	0.78	NA
PZ-101	SMPZ-101-GW032811	Tm-171	Filtered	170	350	110	170
PZ-101	SMPZ-101-GW032811	Tm-171	Suspended	3 U	120	36	59
PZ-101	SMPZ-101-GW032811	Tm-171	Total	180	NA	110	NA
PZ-101	SMPZ-101-GW032811	U-233/234	Filtered	0.0249	0.0053	0.0083	0.0041
PZ-101	SMPZ-101-GW032811	U-233/234	Suspended	0.038	0.0052	0.0098	0.004
PZ-101	SMPZ-101-GW032811	U-233/234	Total	0.063	NA	0.013	NA
PZ-101	SMPZ-101-GW032811	U-235/236	Filtered	0.0053	0.016	0.0046	0.0051
PZ-101	SMPZ-101-GW032811	U-235/236	Suspended	0.001 U	0.02	0.0043	0.0071
PZ-101	SMPZ-101-GW032811	U-235/236	Total	0.0063	NA	0.0064	NA
PZ-101	SMPZ-101-GW032811	U-238	Filtered	0.0255	0.0053	0.0081	0.0041
PZ-101	SMPZ-101-GW032811	U-238	Suspended	0.0313	0.013	0.0091	0.004
PZ-101	SMPZ-101-GW032811	U-238	Total	0.057	NA	0.012	NA
PZ-102	SMPZ-102-GW033011	Ac-227	Filtered	-3.9 U	8.1	2.5	4
PZ-102	SMPZ-102-GW033011	Ac-227	Suspended	-2.8 L U	4.2	1.3	2.1
PZ-102	SMPZ-102-GW033011	Ac-227	Total	-6.7 L	NA	2.8	NA
PZ-102	SMPZ-102-GW033011	Ac-228	Filtered	1.7	3.5	1.1	1.6
PZ-102	SMPZ-102-GW033011	Ac-228	Suspended	-0.9 U	2.9	1.3	1.4
PZ-102	SMPZ-102-GW033011	Ac-228	Total	0.9	NA	1.7	NA
PZ-102	SMPZ-102-GW033011	Ag-108	Filtered	-0.008 U R	0.088	0.026	0.042
PZ-102	SMPZ-102-GW033011	Ag-108	Suspended	-0.002 U R	0.051	0.015	0.025
PZ-102	SMPZ-102-GW033011	Ag-108	Total	-0.01 R	NA	0.03	NA
PZ-102	SMPZ-102-GW033011	Ag-108m	Filtered	-0.08 U R	0.95	0.28	0.46
PZ-102	SMPZ-102-GW033011	Ag-108m	Suspended	-0.02 U R	0.55	0.16	0.26
PZ-102	SMPZ-102-GW033011	Ag-108m	Total	-0.11 R	NA	0.32	NA
PZ-102	SMPZ-102-GW033011	Ba-133	Filtered	-2 U R	11	3.4	5.5
PZ-102	SMPZ-102-GW033011	Ba-133	Suspended	-1.1 U R	5.8	1.7	2.8
PZ-102	SMPZ-102-GW033011	Ba-133	Total	-3.1 R	NA	3.8	NA
PZ-102	SMPZ-102-GW033011	Ba-137m	Filtered	0.25 U	1	0.3	0.48
PZ-102	SMPZ-102-GW033011	Ba-137m	Suspended	0.2 U	0.7	0.21	0.33
PZ-102	SMPZ-102-GW033011	Ba-137m	Total	0.45	NA	0.36	NA
PZ-102	SMPZ-102-GW033011	Bi-212	Filtered	-0.3 U	9.5	3.1	4.5
PZ-102	SMPZ-102-GW033011	Bi-212	Suspended	1.9 U	5.4	1.6	2.6
PZ-102	SMPZ-102-GW033011	Bi-212	Total	1.5	NA	3.5	NA
PZ-102	SMPZ-102-GW033011	Bi-214	Filtered	2	2.6	1	1.3
PZ-102	SMPZ-102-GW033011	Bi-214	Suspended	0.75	1.5	0.52	0.74

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-102	SMPZ-102-GW033011	Bi-214	Total	2.8	NA	1.1	NA
PZ-102	SMPZ-102-GW033011	Cd-113m	Filtered	-1200 U	14000	4000	6600
PZ-102	SMPZ-102-GW033011	Cd-113m	Suspended	0 U	7000	2100	3400
PZ-102	SMPZ-102-GW033011	Cd-113m	Total	-1200	NA	4500	NA
PZ-102	SMPZ-102-GW033011	Cf-249	Filtered	-0.2 U R	5.2	1.5	2.5
PZ-102	SMPZ-102-GW033011	Cf-249	Suspended	0.28 U R	3	0.9	1.5
PZ-102	SMPZ-102-GW033011	Cf-249	Total	0.1 R	NA	1.8	NA
PZ-102	SMPZ-102-GW033011	Co-60	Filtered	0.01 U	1.1	0.3	0.49
PZ-102	SMPZ-102-GW033011	Co-60	Suspended	0.02 U	0.6	0.17	0.28
PZ-102	SMPZ-102-GW033011	Co-60	Total	0.03	NA	0.34	NA
PZ-102	SMPZ-102-GW033011	Cs-134	Filtered	0.01 U	1.2	0.35	0.58
PZ-102	SMPZ-102-GW033011	Cs-134	Suspended	-0.06 U	0.79	0.23	0.38
PZ-102	SMPZ-102-GW033011	Cs-134	Total	-0.05	NA	0.42	NA
PZ-102	SMPZ-102-GW033011	Cs-137	Filtered	0.26 U	1.1	0.31	0.5
PZ-102	SMPZ-102-GW033011	Cs-137	Suspended	0.21 U	0.74	0.22	0.35
PZ-102	SMPZ-102-GW033011	Cs-137	Total	0.47	NA	0.38	NA
PZ-102	SMPZ-102-GW033011	Eu-152	Filtered	0.03 U	2.8	0.81	1.3
PZ-102	SMPZ-102-GW033011	Eu-152	Suspended	-0.32 U	1.9	0.56	0.91
PZ-102	SMPZ-102-GW033011	Eu-152	Total	-0.29	NA	0.99	NA
PZ-102	SMPZ-102-GW033011	Eu-154	Filtered	4.4	8.5	2.6	4
PZ-102	SMPZ-102-GW033011	Eu-154	Suspended	0.2 U	5.6	1.6	2.6
PZ-102	SMPZ-102-GW033011	Eu-154	Total	4.7	NA	3	NA
PZ-102	SMPZ-102-GW033011	Eu-155	Filtered	0.4 U	2.9	0.86	1.4
PZ-102	SMPZ-102-GW033011	Eu-155	Suspended	-0.02 U	1.1	0.33	0.55
PZ-102	SMPZ-102-GW033011	Eu-155	Total	0.38	NA	0.92	NA
PZ-102	SMPZ-102-GW033011	gross_alpha	Filtered	0.66	0.5	0.2	0.26
PZ-102	SMPZ-102-GW033011	gross_alpha	Suspended	4.51	0.75	0.55	0.39
PZ-102	SMPZ-102-GW033011	gross_alpha	Total	4.99	NA	0.59	NA
PZ-102	SMPZ-102-GW033011	gross_beta	Filtered	2.6	1	0.41	0.59
PZ-102	SMPZ-102-GW033011	gross_beta	Suspended	2.42	0.8	0.34	0.47
PZ-102	SMPZ-102-GW033011	gross_beta	Total	5.02	NA	0.53	NA
PZ-102	SMPZ-102-GW033011	H-3	Total	25 U	140	43	69
PZ-102	SMPZ-102-GW033011	Ho-166m	Filtered	-0.04 U	1.7	0.49	0.81
PZ-102	SMPZ-102-GW033011	Ho-166m	Suspended	-0.12 U	0.98	0.29	0.46
PZ-102	SMPZ-102-GW033011	Ho-166m	Total	-0.16	NA	0.57	NA
PZ-102	SMPZ-102-GW033011	K-40	Filtered	5 U	16	4.1	7.8
PZ-102	SMPZ-102-GW033011	K-40	Suspended	5 U	12	3.5	5.6
PZ-102	SMPZ-102-GW033011	K-40	Total	9.9	NA	5.4	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-102	SMPZ-102-GW033011	Na-22	Filtered	0.08 U	1.1	0.3	0.49
PZ-102	SMPZ-102-GW033011	Na-22	Suspended	-0.21 U	0.79	0.23	0.37
PZ-102	SMPZ-102-GW033011	Na-22	Total	-0.13	NA	0.38	NA
PZ-102	SMPZ-102-GW033011	Nb-94	Filtered	0.23 U	1.1	0.32	0.52
PZ-102	SMPZ-102-GW033011	Nb-94	Suspended	0.002 U	0.68	0.2	0.33
PZ-102	SMPZ-102-GW033011	Nb-94	Total	0.23	NA	0.38	NA
PZ-102	SMPZ-102-GW033011	Np-236	Filtered	0.76 U	2.2	0.66	1.1
PZ-102	SMPZ-102-GW033011	Np-236	Suspended	-0.37 U	1.2	0.37	0.6
PZ-102	SMPZ-102-GW033011	Np-236	Total	0.39	NA	0.76	NA
PZ-102	SMPZ-102-GW033011	Np-239	Filtered	0.7 U	7	2.1	3.4
PZ-102	SMPZ-102-GW033011	Np-239	Suspended	0.09 U	3.1	0.92	1.5
PZ-102	SMPZ-102-GW033011	Np-239	Total	0.8	NA	2.3	NA
PZ-102	SMPZ-102-GW033011	Pa-231	Filtered	3 U	49	14	23
PZ-102	SMPZ-102-GW033011	Pa-231	Suspended	4.6 U	26	7.8	13
PZ-102	SMPZ-102-GW033011	Pa-231	Total	7	NA	16	NA
PZ-102	SMPZ-102-GW033011	Pb-212	Filtered	0.79 U	2.4	0.81	1.2
PZ-102	SMPZ-102-GW033011	Pb-212	Suspended	1.09	1	0.35	0.49
PZ-102	SMPZ-102-GW033011	Pb-212	Total	1.88	NA	0.89	NA
PZ-102	SMPZ-102-GW033011	Pb-214	Filtered	0.49 U	2.4	0.89	1.2
PZ-102	SMPZ-102-GW033011	Pb-214	Suspended	1.2	1.3	0.54	0.65
PZ-102	SMPZ-102-GW033011	Pb-214	Total	1.7	NA	1	NA
PZ-102	SMPZ-102-GW033011	Sb-125	Filtered	4.2 U	11	3.5	5.6
PZ-102	SMPZ-102-GW033011	Sb-125	Suspended	1.2 U	5.2	1.6	2.5
PZ-102	SMPZ-102-GW033011	Sb-125	Total	5.4	NA	3.8	NA
PZ-102	SMPZ-102-GW033011	Sn-126	Filtered	0.03 U	1	0.3	0.49
PZ-102	SMPZ-102-GW033011	Sn-126	Suspended	0.37 B	0.77	0.24	0.37
PZ-102	SMPZ-102-GW033011	Sn-126	Total	0.4	NA	0.38	NA
PZ-102	SMPZ-102-GW033011	Sr-90	Filtered	0.002 U	0.088	0.025	0.05
PZ-102	SMPZ-102-GW033011	Sr-90	Suspended	0.046	0.058	0.018	0.033
PZ-102	SMPZ-102-GW033011	Sr-90	Total	0.048	NA	0.031	NA
PZ-102	SMPZ-102-GW033011	Te-125m	Filtered	0.98 U	2.6	0.8	1.3
PZ-102	SMPZ-102-GW033011	Te-125m	Suspended	0.28 U	1.2	0.36	0.59
PZ-102	SMPZ-102-GW033011	Te-125m	Total	1.25	NA	0.88	NA
PZ-102	SMPZ-102-GW033011	Th-231	Filtered	0.0073	0.0066	0.0042	0.0051
PZ-102	SMPZ-102-GW033011	Th-231	Suspended	0.0074	0.0067	0.0043	0.0051
PZ-102	SMPZ-102-GW033011	Th-231	Total	0.0147	NA	0.006	NA
PZ-102	SMPZ-102-GW033011	Th-234	Filtered	-6.9 U	24	9.3	12
PZ-102	SMPZ-102-GW033011	Th-234	Suspended	-0.5 U	8.7	2.8	4.2

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-102	SMPZ-102-GW033011	Th-234	Total	-7.4	NA	9.7	NA
PZ-102	SMPZ-102-GW033011	Tl-208	Filtered	0.6 U	1.4	0.52	0.66
PZ-102	SMPZ-102-GW033011	Tl-208	Suspended	0.3 U	0.79	0.3	0.38
PZ-102	SMPZ-102-GW033011	Tl-208	Total	0.9	NA	0.6	NA
PZ-102	SMPZ-102-GW033011	Tm-171	Filtered	210	340	100	160
PZ-102	SMPZ-102-GW033011	Tm-171	Suspended	3 U	120	35	57
PZ-102	SMPZ-102-GW033011	Tm-171	Total	210	NA	110	NA
PZ-102	SMPZ-102-GW033011	U-233/234	Filtered	0.0028 U	0.016	0.006	0.0058
PZ-102	SMPZ-102-GW033011	U-233/234	Suspended	0.092	0.019	0.015	0.007
PZ-102	SMPZ-102-GW033011	U-233/234	Total	0.094	NA	0.016	NA
PZ-102	SMPZ-102-GW033011	U-235/236	Filtered	0.0073	0.0066	0.0042	0.0051
PZ-102	SMPZ-102-GW033011	U-235/236	Suspended	0.0074	0.0067	0.0043	0.0051
PZ-102	SMPZ-102-GW033011	U-235/236	Total	0.0147	NA	0.006	NA
PZ-102	SMPZ-102-GW033011	U-238	Filtered	0.001 U	0.013	0.0046	0.0041
PZ-102	SMPZ-102-GW033011	U-238	Suspended	0.083	0.005	0.014	0.004
PZ-102	SMPZ-102-GW033011	U-238	Total	0.084	NA	0.015	NA
PZ-103	SMPZ-103-GW032511	Ac-227	Filtered	-0.22 U	0.82	0.25	0.4
PZ-103	SMPZ-103-GW032511	Ac-227	Suspended	-4.3 L U	5.4	1.7	2.6
PZ-103	SMPZ-103-GW032511	Ac-227	Total	-4.5 L	NA	1.7	NA
PZ-103	SMPZ-103-GW032511	Ac-228	Filtered	-0.007 U	0.39	0.11	0.18
PZ-103	SMPZ-103-GW032511	Ac-228	Suspended	1.59	2.3	0.72	1.1
PZ-103	SMPZ-103-GW032511	Ac-228	Total	1.58	NA	0.73	NA
PZ-103	SMPZ-103-GW032511	Ag-108	Filtered	-0.0037 U R	0.01	0.0031	0.0049
PZ-103	SMPZ-103-GW032511	Ag-108	Suspended	0.018 U R	0.051	0.015	0.024
PZ-103	SMPZ-103-GW032511	Ag-108	Total	0.014 R	NA	0.015	NA
PZ-103	SMPZ-103-GW032511	Ag-108m	Filtered	-0.04 U R	0.11	0.033	0.053
PZ-103	SMPZ-103-GW032511	Ag-108m	Suspended	0.19 U R	0.54	0.16	0.26
PZ-103	SMPZ-103-GW032511	Ag-108m	Total	0.16 R	NA	0.17	NA
PZ-103	SMPZ-103-GW032511	Ba-133	Filtered	0.03 U R	1.2	0.36	0.6
PZ-103	SMPZ-103-GW032511	Ba-133	Suspended	2.3 U R	5.7	1.7	2.7
PZ-103	SMPZ-103-GW032511	Ba-133	Total	2.3 R	NA	1.8	NA
PZ-103	SMPZ-103-GW032511	Ba-137m	Filtered	-0.03 U	0.12	0.034	0.055
PZ-103	SMPZ-103-GW032511	Ba-137m	Suspended	0.18 U	0.65	0.19	0.3
PZ-103	SMPZ-103-GW032511	Ba-137m	Total	0.15	NA	0.19	NA
PZ-103	SMPZ-103-GW032511	Bi-212	Filtered	0.51	0.81	0.25	0.38
PZ-103	SMPZ-103-GW032511	Bi-212	Suspended	2.4	4.9	1.5	2.3
PZ-103	SMPZ-103-GW032511	Bi-212	Total	2.9	NA	1.5	NA
PZ-103	SMPZ-103-GW032511	Bi-214	Filtered	0.054 U	0.26	0.086	0.12

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW032511	Bi-214	Suspended	1.32	1.8	0.7	0.85
PZ-103	SMPZ-103-GW032511	Bi-214	Total	1.37	NA	0.71	NA
PZ-103	SMPZ-103-GW032511	Cd-113m	Filtered	0 U	1400	420	700
PZ-103	SMPZ-103-GW032511	Cd-113m	Suspended	1200 U	6700	2000	3200
PZ-103	SMPZ-103-GW032511	Cd-113m	Total	1200	NA	2000	NA
PZ-103	SMPZ-103-GW032511	Cf-249	Filtered	-0.009 U R	0.57	0.17	0.27
PZ-103	SMPZ-103-GW032511	Cf-249	Suspended	-0.43 U R	2.4	0.7	1.1
PZ-103	SMPZ-103-GW032511	Cf-249	Total	-0.44 R	NA	0.72	NA
PZ-103	SMPZ-103-GW032511	Co-60	Filtered	-0.004 U	0.13	0.037	0.06
PZ-103	SMPZ-103-GW032511	Co-60	Suspended	-0.13 U	0.82	0.23	0.37
PZ-103	SMPZ-103-GW032511	Co-60	Total	-0.13	NA	0.24	NA
PZ-103	SMPZ-103-GW032511	Cs-134	Filtered	0.013 U	0.11	0.032	0.052
PZ-103	SMPZ-103-GW032511	Cs-134	Suspended	-0.27 U	0.85	0.25	0.41
PZ-103	SMPZ-103-GW032511	Cs-134	Total	-0.26 SK	NA	0.26	NA
PZ-103	SMPZ-103-GW032511	Cs-137	Filtered	-0.031 U	0.12	0.036	0.058
PZ-103	SMPZ-103-GW032511	Cs-137	Suspended	0.19 U	0.68	0.2	0.32
PZ-103	SMPZ-103-GW032511	Cs-137	Total	0.16	NA	0.2	NA
PZ-103	SMPZ-103-GW032511	Eu-152	Filtered	0.136 U	0.31	0.093	0.15
PZ-103	SMPZ-103-GW032511	Eu-152	Suspended	0.02 U	1.8	0.53	0.87
PZ-103	SMPZ-103-GW032511	Eu-152	Total	0.15	NA	0.54	NA
PZ-103	SMPZ-103-GW032511	Eu-154	Filtered	-0.04 U	0.98	0.28	0.46
PZ-103	SMPZ-103-GW032511	Eu-154	Suspended	-0.5 U J	6.6	1.9	3.1
PZ-103	SMPZ-103-GW032511	Eu-154	Total	-0.5	NA	1.9	NA
PZ-103	SMPZ-103-GW032511	Eu-155	Filtered	0.004 U	0.34	0.1	0.17
PZ-103	SMPZ-103-GW032511	Eu-155	Suspended	0.23 U	1.4	0.42	0.68
PZ-103	SMPZ-103-GW032511	Eu-155	Total	0.24 SK	NA	0.43	NA
PZ-103	SMPZ-103-GW032511	gross_alpha	Filtered	3.93	0.42	0.42	0.21
PZ-103	SMPZ-103-GW032511	gross_alpha	Suspended	3.7	2.6	1	1.4
PZ-103	SMPZ-103-GW032511	gross_alpha	Total	7.6	NA	1.1	NA
PZ-103	SMPZ-103-GW032511	gross_beta	Filtered	5.3	2.7	1	1.6
PZ-103	SMPZ-103-GW032511	gross_beta	Suspended	7.65	1.1	0.66	0.66
PZ-103	SMPZ-103-GW032511	gross_beta	Total	13	NA	1.2	NA
PZ-103	SMPZ-103-GW032511	H-3	Total	-13 U	140	41	68
PZ-103	SMPZ-103-GW032511	Ho-166m	Filtered	-0.0001 U	0.19	0.054	0.089
PZ-103	SMPZ-103-GW032511	Ho-166m	Suspended	-0.02 U	1.2	0.33	0.55
PZ-103	SMPZ-103-GW032511	Ho-166m	Total	-0.03 SK	NA	0.34	NA
PZ-103	SMPZ-103-GW032511	K-40	Filtered	-0.03 U	1.5	0.39	0.71
PZ-103	SMPZ-103-GW032511	K-40	Suspended	1.4 U	12	2.9	5.7

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW032511	K-40	Total	1.4	NA	3	NA
PZ-103	SMPZ-103-GW032511	Na-22	Filtered	0.012 U	0.13	0.037	0.06
PZ-103	SMPZ-103-GW032511	Na-22	Suspended	0.21 U	0.8	0.23	0.36
PZ-103	SMPZ-103-GW032511	Na-22	Total	0.22	NA	0.24	NA
PZ-103	SMPZ-103-GW032511	Nb-94	Filtered	0.002 U	0.091	0.026	0.042
PZ-103	SMPZ-103-GW032511	Nb-94	Suspended	0.21 U	0.6	0.18	0.28
PZ-103	SMPZ-103-GW032511	Nb-94	Total	0.21	NA	0.18	NA
PZ-103	SMPZ-103-GW032511	Np-236	Filtered	-0.003 U	0.24	0.69	0.11
PZ-103	SMPZ-103-GW032511	Np-236	Suspended	-0.04 U	1.5	0.45	0.74
PZ-103	SMPZ-103-GW032511	Np-236	Total	-0.04 SK	NA	0.83	NA
PZ-103	SMPZ-103-GW032511	Np-239	Filtered	0.01 U	0.71	0.21	0.34
PZ-103	SMPZ-103-GW032511	Np-239	Suspended	-1 U	4.1	1.2	2
PZ-103	SMPZ-103-GW032511	Np-239	Total	-1	NA	1.2	NA
PZ-103	SMPZ-103-GW032511	Pa-231	Filtered	0.07 U	5.3	1.6	2.6
PZ-103	SMPZ-103-GW032511	Pa-231	Suspended	6.2 U	26	7.6	12
PZ-103	SMPZ-103-GW032511	Pa-231	Total	6.3	NA	7.8	NA
PZ-103	SMPZ-103-GW032511	Pb-212	Filtered	0.051 U	0.23	0.069	0.11
PZ-103	SMPZ-103-GW032511	Pb-212	Suspended	0.97	1.4	0.57	0.69
PZ-103	SMPZ-103-GW032511	Pb-212	Total	1.02	NA	0.57	NA
PZ-103	SMPZ-103-GW032511	Pb-214	Filtered	0.194	0.23	0.082	0.11
PZ-103	SMPZ-103-GW032511	Pb-214	Suspended	0.64 U	1.4	0.48	0.68
PZ-103	SMPZ-103-GW032511	Pb-214	Total	0.83	NA	0.49	NA
PZ-103	SMPZ-103-GW032511	Sb-125	Filtered	0.23 U	1.3	0.39	0.63
PZ-103	SMPZ-103-GW032511	Sb-125	Suspended	-0.5 U	6.2	1.8	3
PZ-103	SMPZ-103-GW032511	Sb-125	Total	-0.3 SK	NA	1.9	NA
PZ-103	SMPZ-103-GW032511	Sn-126	Filtered	0.046 U	0.11	0.033	0.051
PZ-103	SMPZ-103-GW032511	Sn-126	Suspended	0.23 U	0.76	0.23	0.36
PZ-103	SMPZ-103-GW032511	Sn-126	Total	0.28	NA	0.23	NA
PZ-103	SMPZ-103-GW032511	Sr-90	Filtered	0.039 U	0.15	0.045	0.085
PZ-103	SMPZ-103-GW032511	Sr-90	Suspended	0.088	0.11	0.034	0.06
PZ-103	SMPZ-103-GW032511	Sr-90	Total	0.127	NA	0.056	NA
PZ-103	SMPZ-103-GW032511	Te-125m	Filtered	0.054 U	0.3	0.089	0.14
PZ-103	SMPZ-103-GW032511	Te-125m	Suspended	-0.12 U	1.4	0.42	0.69
PZ-103	SMPZ-103-GW032511	Te-125m	Total	-0.06 SK	NA	0.43	NA
PZ-103	SMPZ-103-GW032511	Th-231	Filtered	0.102	0.007	0.016	0.005
PZ-103	SMPZ-103-GW032511	Th-231	Suspended	0.0032 U	0.019	0.0048	0.0068
PZ-103	SMPZ-103-GW032511	Th-231	Total	0.105	NA	0.017	NA
PZ-103	SMPZ-103-GW032511	Th-234	Filtered	0.81 U	2.1	0.73	1

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-103	SMPZ-103-GW032511	Th-234	Suspended	3.7 U	8.6	2.9	4.2
PZ-103	SMPZ-103-GW032511	Th-234	Total	4.5	NA	3	NA
PZ-103	SMPZ-103-GW032511	Tl-208	Filtered	-0.029 U	0.15	0.054	0.072
PZ-103	SMPZ-103-GW032511	Tl-208	Suspended	0.57	0.82	0.31	0.39
PZ-103	SMPZ-103-GW032511	Tl-208	Total	0.54	NA	0.31	NA
PZ-103	SMPZ-103-GW032511	Tm-171	Filtered	8 U	36	11	18
PZ-103	SMPZ-103-GW032511	Tm-171	Suspended	-3 U	150	45	73
PZ-103	SMPZ-103-GW032511	Tm-171	Total	5	NA	46	NA
PZ-103	SMPZ-103-GW032511	U-233/234	Filtered	2.21	0.005	0.11	0.004
PZ-103	SMPZ-103-GW032511	U-233/234	Suspended	0.261	0.012	0.025	0.004
PZ-103	SMPZ-103-GW032511	U-233/234	Total	2.47	NA	0.12	NA
PZ-103	SMPZ-103-GW032511	U-235/236	Filtered	0.102	0.007	0.016	0.005
PZ-103	SMPZ-103-GW032511	U-235/236	Suspended	0.0032 U	0.019	0.0048	0.0068
PZ-103	SMPZ-103-GW032511	U-235/236	Total	0.105	NA	0.017	NA
PZ-103	SMPZ-103-GW032511	U-238	Filtered	1.67	0.005	0.091	0.004
PZ-103	SMPZ-103-GW032511	U-238	Suspended	0.295	0.015	0.027	0.005
PZ-103	SMPZ-103-GW032511	U-238	Total	1.97	NA	0.095	NA
PZ-105	SMPZ-105-GW032311	Ac-227	Filtered	0 U	10	3	5
PZ-105	SMPZ-105-GW032311	Ac-227	Suspended	-1.33 U	2.6	0.8	1.3
PZ-105	SMPZ-105-GW032311	Ac-227	Total	-1.3	NA	3.1	NA
PZ-105	SMPZ-105-GW032311	Ac-228	Filtered	3	3.6	1.1	1.7
PZ-105	SMPZ-105-GW032311	Ac-228	Suspended	1.5	1.5	0.5	0.7
PZ-105	SMPZ-105-GW032311	Ac-228	Total	4.5	NA	1.2	NA
PZ-105	SMPZ-105-GW032311	Ag-108	Filtered	0.002 U R	0.081	0.023	0.039
PZ-105	SMPZ-105-GW032311	Ag-108	Suspended	0.0029 U R	0.03	0.0087	0.014
PZ-105	SMPZ-105-GW032311	Ag-108	Total	0.005 R	NA	0.025	NA
PZ-105	SMPZ-105-GW032311	Ag-108m	Filtered	0.02 U R	0.87	0.25	0.41
PZ-105	SMPZ-105-GW032311	Ag-108m	Suspended	0.031 U R	0.32	0.093	0.15
PZ-105	SMPZ-105-GW032311	Ag-108m	Total	0.05 R	NA	0.27	NA
PZ-105	SMPZ-105-GW032311	Ba-133	Filtered	-0.08 U R	9.8	2.9	4.7
PZ-105	SMPZ-105-GW032311	Ba-133	Suspended	0.5 U R	4	1.2	1.9
PZ-105	SMPZ-105-GW032311	Ba-133	Total	0.4 R	NA	3.1	NA
PZ-105	SMPZ-105-GW032311	Ba-137m	Filtered	0.26 U	1.1	0.33	0.53
PZ-105	SMPZ-105-GW032311	Ba-137m	Suspended	0.22	0.39	0.12	0.18
PZ-105	SMPZ-105-GW032311	Ba-137m	Total	0.48	NA	0.35	NA
PZ-105	SMPZ-105-GW032311	Bi-212	Filtered	5.6	8.2	2.5	3.9
PZ-105	SMPZ-105-GW032311	Bi-212	Suspended	0.3 U	3.9	1.1	1.8
PZ-105	SMPZ-105-GW032311	Bi-212	Total	5.9	NA	2.8	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW032311	Bi-214	Filtered	0.53 U	2.6	0.9	1.3
PZ-105	SMPZ-105-GW032311	Bi-214	Suspended	0.78	0.86	0.28	0.4
PZ-105	SMPZ-105-GW032311	Bi-214	Total	1.32	NA	0.94	NA
PZ-105	SMPZ-105-GW032311	Cd-113m	Filtered	100 U	13000	3900	6500
PZ-105	SMPZ-105-GW032311	Cd-113m	Suspended	0 U	4600	1300	2200
PZ-105	SMPZ-105-GW032311	Cd-113m	Total	100	NA	4200	NA
PZ-105	SMPZ-105-GW032311	Cf-249	Filtered	2.4 U R	5.4	1.6	2.6
PZ-105	SMPZ-105-GW032311	Cf-249	Suspended	-0.29 U R	1.9	0.57	0.92
PZ-105	SMPZ-105-GW032311	Cf-249	Total	2.1 R	NA	1.7	NA
PZ-105	SMPZ-105-GW032311	Co-60	Filtered	0 U	1	0.28	0.46
PZ-105	SMPZ-105-GW032311	Co-60	Suspended	0.04 U	0.54	0.15	0.24
PZ-105	SMPZ-105-GW032311	Co-60	Total	0.04	NA	0.31	NA
PZ-105	SMPZ-105-GW032311	Cs-134	Filtered	0.45 U	1.1	0.32	0.51
PZ-105	SMPZ-105-GW032311	Cs-134	Suspended	0.04 U	0.47	0.14	0.22
PZ-105	SMPZ-105-GW032311	Cs-134	Total	0.49	NA	0.35	NA
PZ-105	SMPZ-105-GW032311	Cs-137	Filtered	0.27 U	1.2	0.35	0.56
PZ-105	SMPZ-105-GW032311	Cs-137	Suspended	0.23	0.42	0.13	0.19
PZ-105	SMPZ-105-GW032311	Cs-137	Total	0.5	NA	0.37	NA
PZ-105	SMPZ-105-GW032311	Eu-152	Filtered	-0.65 U	3.3	0.98	1.6
PZ-105	SMPZ-105-GW032311	Eu-152	Suspended	0 U	1.3	0.37	0.61
PZ-105	SMPZ-105-GW032311	Eu-152	Total	-0.6	NA	1	NA
PZ-105	SMPZ-105-GW032311	Eu-154	Filtered	3.4 U	7.9	2.4	3.7
PZ-105	SMPZ-105-GW032311	Eu-154	Suspended	1.3 U	3.6	1.1	1.6
PZ-105	SMPZ-105-GW032311	Eu-154	Total	4.7	NA	2.6	NA
PZ-105	SMPZ-105-GW032311	Eu-155	Filtered	-0.5 U	2.7	0.82	1.3
PZ-105	SMPZ-105-GW032311	Eu-155	Suspended	0.14 U	0.67	0.2	0.32
PZ-105	SMPZ-105-GW032311	Eu-155	Total	-0.36	NA	0.84	NA
PZ-105	SMPZ-105-GW032311	gross_alpha	Filtered	18.8	0.3	1.1	0.2
PZ-105	SMPZ-105-GW032311	gross_alpha	Suspended	19.6	6.1	3.3	3.2
PZ-105	SMPZ-105-GW032311	gross_alpha	Total	38.4	NA	3.5	NA
PZ-105	SMPZ-105-GW032311	gross_beta	Filtered	7.5	3.3	1.3	1.9
PZ-105	SMPZ-105-GW032311	gross_beta	Suspended	1.39	0.7	0.27	0.4
PZ-105	SMPZ-105-GW032311	gross_beta	Total	8.9	NA	1.3	NA
PZ-105	SMPZ-105-GW032311	H-3	Total	24 U	160	46	76
PZ-105	SMPZ-105-GW032311	Ho-166m	Filtered	0 U	2.1	0.6	1
PZ-105	SMPZ-105-GW032311	Ho-166m	Suspended	0.15 U	0.66	0.19	0.31
PZ-105	SMPZ-105-GW032311	Ho-166m	Total	0.15	NA	0.63	NA
PZ-105	SMPZ-105-GW032311	K-40	Filtered	15.2	17	5	8.1

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW032311	K-40	Suspended	-3.2 U	8	6.3	3.7
PZ-105	SMPZ-105-GW032311	K-40	Total	11.9	NA	8	NA
PZ-105	SMPZ-105-GW032311	Na-22	Filtered	0 U	1.8	0.51	0.84
PZ-105	SMPZ-105-GW032311	Na-22	Suspended	0.04 U	0.64	0.18	0.29
PZ-105	SMPZ-105-GW032311	Na-22	Total	0.04	NA	0.54	NA
PZ-105	SMPZ-105-GW032311	Nb-94	Filtered	0.39 U	0.98	0.3	0.47
PZ-105	SMPZ-105-GW032311	Nb-94	Suspended	-0.05 U	0.42	0.12	0.2
PZ-105	SMPZ-105-GW032311	Nb-94	Total	0.35	NA	0.32	NA
PZ-105	SMPZ-105-GW032311	Np-236	Filtered	-0.95 U	2.6	0.79	1.3
PZ-105	SMPZ-105-GW032311	Np-236	Suspended	-0.21 U	0.58	0.17	0.28
PZ-105	SMPZ-105-GW032311	Np-236	Total	-1.16	NA	0.81	NA
PZ-105	SMPZ-105-GW032311	Np-239	Filtered	1.1 U	7	2.1	3.4
PZ-105	SMPZ-105-GW032311	Np-239	Suspended	-0.02 U	1.7	0.48	0.79
PZ-105	SMPZ-105-GW032311	Np-239	Total	1	NA	2.1	NA
PZ-105	SMPZ-105-GW032311	Pa-231	Filtered	0.6 U	48	14	23
PZ-105	SMPZ-105-GW032311	Pa-231	Suspended	-0.1 U	17	4.9	8.1
PZ-105	SMPZ-105-GW032311	Pa-231	Total	0.5	NA	15	NA
PZ-105	SMPZ-105-GW032311	Pb-212	Filtered	1.18 U	2.4	0.86	1.2
PZ-105	SMPZ-105-GW032311	Pb-212	Suspended	0.15 U	0.61	0.19	0.29
PZ-105	SMPZ-105-GW032311	Pb-212	Total	1.34	NA	0.88	NA
PZ-105	SMPZ-105-GW032311	Pb-214	Filtered	0.52 U	2.5	0.97	1.2
PZ-105	SMPZ-105-GW032311	Pb-214	Suspended	0.11 U	0.89	0.25	0.42
PZ-105	SMPZ-105-GW032311	Pb-214	Total	0.6	NA	1	NA
PZ-105	SMPZ-105-GW032311	Sb-125	Filtered	1.8 U	11	3.2	5.2
PZ-105	SMPZ-105-GW032311	Sb-125	Suspended	-0.6 U	3.4	1	1.6
PZ-105	SMPZ-105-GW032311	Sb-125	Total	1.1	NA	3.4	NA
PZ-105	SMPZ-105-GW032311	Sn-126	Filtered	0.62	0.92	0.29	0.43
PZ-105	SMPZ-105-GW032311	Sn-126	Suspended	0.22	0.44	0.13	0.2
PZ-105	SMPZ-105-GW032311	Sn-126	Total	0.84	NA	0.32	NA
PZ-105	SMPZ-105-GW032311	Sr-90	Filtered	0.041	0.049	0.015	0.026
PZ-105	SMPZ-105-GW032311	Sr-90	Suspended	-0.019 U	0.057	0.016	0.032
PZ-105	SMPZ-105-GW032311	Sr-90	Total	0.021	NA	0.022	NA
PZ-105	SMPZ-105-GW032311	Te-125m	Filtered	0.41 U	2.5	0.74	1.2
PZ-105	SMPZ-105-GW032311	Te-125m	Suspended	-0.15 U	0.79	0.23	0.38
PZ-105	SMPZ-105-GW032311	Te-125m	Total	0.26	NA	0.78	NA
PZ-105	SMPZ-105-GW032311	Th-231	Filtered	0.43	0.007	0.038	0.006
PZ-105	SMPZ-105-GW032311	Th-231	Suspended	0.015	0.0068	0.0062	0.0052
PZ-105	SMPZ-105-GW032311	Th-231	Total	0.487	NA	0.042	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-105	SMPZ-105-GW032311	Th-234	Filtered	10.4	21	7.3	10
PZ-105	SMPZ-105-GW032311	Th-234	Suspended	0.5 U	4.8	1.4	2.3
PZ-105	SMPZ-105-GW032311	Th-234	Total	10.9	NA	7.4	NA
PZ-105	SMPZ-105-GW032311	Tl-208	Filtered	0.57 U	1.3	0.47	0.61
PZ-105	SMPZ-105-GW032311	Tl-208	Suspended	-0.1 U	0.54	0.27	0.25
PZ-105	SMPZ-105-GW032311	Tl-208	Total	0.47	NA	0.54	NA
PZ-105	SMPZ-105-GW032311	Tm-171	Filtered	-0.07 U	340	100	170
PZ-105	SMPZ-105-GW032311	Tm-171	Suspended	-3 U	64	19	31
PZ-105	SMPZ-105-GW032311	Tm-171	Total	-3	NA	100	NA
PZ-105	SMPZ-105-GW032311	U-233/234	Filtered	10.2	0.006	0.45	0.005
PZ-105	SMPZ-105-GW032311	U-233/234	Suspended	0.42	0.005	0.034	0.004
PZ-105	SMPZ-105-GW032311	U-233/234	Total	9.71	NA	0.42	NA
PZ-105	SMPZ-105-GW032311	U-235/236	Filtered	0.43	0.007	0.038	0.006
PZ-105	SMPZ-105-GW032311	U-235/236	Suspended	0.015	0.0068	0.0062	0.0052
PZ-105	SMPZ-105-GW032311	U-235/236	Total	0.487	NA	0.042	NA
PZ-105	SMPZ-105-GW032311	U-238	Filtered	9.58	0.02	0.43	0.005
PZ-105	SMPZ-105-GW032311	U-238	Suspended	0.426	0.005	0.035	0.004
PZ-105	SMPZ-105-GW032311	U-238	Total	9.52	NA	0.41	NA
PZ-106	SMPZ-106-GW031811	Ac-227	Filtered	-3.1 U	9.4	2.8	4.6
PZ-106	SMPZ-106-GW031811	Ac-227	Suspended	-0.4 U	3.6	1.1	1.7
PZ-106	SMPZ-106-GW031811	Ac-227	Total	-3.5	NA	3	NA
PZ-106	SMPZ-106-GW031811	Ac-228	Filtered	1.2 U	4.6	1.3	2.1
PZ-106	SMPZ-106-GW031811	Ac-228	Suspended	0.13 U	2.7	0.71	1.3
PZ-106	SMPZ-106-GW031811	Ac-228	Total	1.3	NA	1.5	NA
PZ-106	SMPZ-106-GW031811	Ag-108	Filtered	-0.022 U	0.098	0.029	0.046
PZ-106	SMPZ-106-GW031811	Ag-108	Suspended	-0.0006 U	0.052	0.015	0.025
PZ-106	SMPZ-106-GW031811	Ag-108	Total	-0.022	NA	0.033	NA
PZ-106	SMPZ-106-GW031811	Ag-108m	Filtered	-0.23 U	1.1	0.31	0.5
PZ-106	SMPZ-106-GW031811	Ag-108m	Suspended	-0.007 U	0.56	0.16	0.27
PZ-106	SMPZ-106-GW031811	Ag-108m	Total	-0.24	NA	0.35	NA
PZ-106	SMPZ-106-GW031811	Ba-133	Filtered	2.3 U	12	3.6	5.9
PZ-106	SMPZ-106-GW031811	Ba-133	Suspended	-0.2 U	6	1.8	2.9
PZ-106	SMPZ-106-GW031811	Ba-133	Total	2.1	NA	4	NA
PZ-106	SMPZ-106-GW031811	Ba-137m	Filtered	0.47 U	1.1	0.33	0.51
PZ-106	SMPZ-106-GW031811	Ba-137m	Suspended	0.08 U	0.72	0.21	0.35
PZ-106	SMPZ-106-GW031811	Ba-137m	Total	0.55	NA	0.39	NA
PZ-106	SMPZ-106-GW031811	Bi-212	Filtered	3.5 U	9.6	2.9	4.4
PZ-106	SMPZ-106-GW031811	Bi-212	Suspended	2 U	5.4	1.6	2.6

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW031811	Bi-212	Total	5.5	NA	3.3	NA
PZ-106	SMPZ-106-GW031811	Bi-214	Filtered	1.66	2.4	0.75	1.1
PZ-106	SMPZ-106-GW031811	Bi-214	Suspended	0.37 U	1.6	0.57	0.78
PZ-106	SMPZ-106-GW031811	Bi-214	Total	2.03	NA	0.94	NA
PZ-106	SMPZ-106-GW031811	Cd-113m	Filtered	-50 U	13000	3900	6400
PZ-106	SMPZ-106-GW031811	Cd-113m	Suspended	20 U	5400	1600	2600
PZ-106	SMPZ-106-GW031811	Cd-113m	Total	-30	NA	4200	NA
PZ-106	SMPZ-106-GW031811	Cf-249	Filtered	1.5 U	5.3	1.6	2.5
PZ-106	SMPZ-106-GW031811	Cf-249	Suspended	0.22 U	2.6	0.76	1.2
PZ-106	SMPZ-106-GW031811	Cf-249	Total	1.7	NA	1.8	NA
PZ-106	SMPZ-106-GW031811	Co-60	Filtered	0.37 U	1.5	0.42	0.66
PZ-106	SMPZ-106-GW031811	Co-60	Suspended	0.04 U	0.76	0.22	0.35
PZ-106	SMPZ-106-GW031811	Co-60	Total	0.41	NA	0.48	NA
PZ-106	SMPZ-106-GW031811	Cs-134	Filtered	0.23 U	1.3	0.38	0.61
PZ-106	SMPZ-106-GW031811	Cs-134	Suspended	-0.06 U	0.69	0.2	0.33
PZ-106	SMPZ-106-GW031811	Cs-134	Total	0.17	NA	0.43	NA
PZ-106	SMPZ-106-GW031811	Cs-137	Filtered	0.5 U	1.2	0.35	0.54
PZ-106	SMPZ-106-GW031811	Cs-137	Suspended	0.09 U	0.76	0.22	0.36
PZ-106	SMPZ-106-GW031811	Cs-137	Total	0.58	NA	0.42	NA
PZ-106	SMPZ-106-GW031811	Eu-152	Filtered	-0.55 U	3.4	0.99	1.6
PZ-106	SMPZ-106-GW031811	Eu-152	Suspended	0.47 U	1.6	0.49	0.79
PZ-106	SMPZ-106-GW031811	Eu-152	Total	-0.08	NA	1.1	NA
PZ-106	SMPZ-106-GW031811	Eu-154	Filtered	-0.5 U	12	3.3	5.5
PZ-106	SMPZ-106-GW031811	Eu-154	Suspended	0 U	5.6	1.6	2.6
PZ-106	SMPZ-106-GW031811	Eu-154	Total	-0.5	NA	3.7	NA
PZ-106	SMPZ-106-GW031811	Eu-155	Filtered	0.1 U	3.1	0.93	1.5
PZ-106	SMPZ-106-GW031811	Eu-155	Suspended	0.04 U	1.2	0.36	0.6
PZ-106	SMPZ-106-GW031811	Eu-155	Total	0.14	NA	0.99	NA
PZ-106	SMPZ-106-GW031811	gross_alpha	Filtered	5.62 L	0.45	0.49	0.23
PZ-106	SMPZ-106-GW031811	gross_alpha	Suspended	0.33	0.36	0.13	0.18
PZ-106	SMPZ-106-GW031811	gross_alpha	Total	5.96	NA	0.51	NA
PZ-106	SMPZ-106-GW031811	gross_beta	Filtered	2.06	2.3	0.79	1.4
PZ-106	SMPZ-106-GW031811	gross_beta	Suspended	1.21	1.2	0.39	0.7
PZ-106	SMPZ-106-GW031811	gross_beta	Total	3.27	NA	0.88	NA
PZ-106	SMPZ-106-GW031811	H-3	Total	-46 U	150	44	75
PZ-106	SMPZ-106-GW031811	Ho-166m	Filtered	0.69 U	2.2	0.64	1
PZ-106	SMPZ-106-GW031811	Ho-166m	Suspended	0.3 U	0.98	0.29	0.47
PZ-106	SMPZ-106-GW031811	Ho-166m	Total	1	NA	0.7	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW031811	K-40	Filtered	11.6	17	5.7	7.7
PZ-106	SMPZ-106-GW031811	K-40	Suspended	-0.1 U	12	2.8	5.5
PZ-106	SMPZ-106-GW031811	K-40	Total	11.5	NA	6.4	NA
PZ-106	SMPZ-106-GW031811	Na-22	Filtered	0.02 U	1.5	0.41	0.67
PZ-106	SMPZ-106-GW031811	Na-22	Suspended	-0.12 U	0.65	0.19	0.3
PZ-106	SMPZ-106-GW031811	Na-22	Total	-0.1	NA	0.45	NA
PZ-106	SMPZ-106-GW031811	Nb-94	Filtered	-0.002 U	1.3	0.37	0.6
PZ-106	SMPZ-106-GW031811	Nb-94	Suspended	0.0007 U	0.65	0.19	0.31
PZ-106	SMPZ-106-GW031811	Nb-94	Total	-0.001	NA	0.41	NA
PZ-106	SMPZ-106-GW031811	Np-236	Filtered	0.32 U	2.4	0.72	1.2
PZ-106	SMPZ-106-GW031811	Np-236	Suspended	0.15 U	1.2	0.34	0.56
PZ-106	SMPZ-106-GW031811	Np-236	Total	0.47	NA	0.8	NA
PZ-106	SMPZ-106-GW031811	Np-239	Filtered	0.8 U	7.3	2.1	3.5
PZ-106	SMPZ-106-GW031811	Np-239	Suspended	0.3 U	3.6	1.1	1.7
PZ-106	SMPZ-106-GW031811	Np-239	Total	1.1	NA	2.4	NA
PZ-106	SMPZ-106-GW031811	Pa-231	Filtered	-4 U	55	16	27
PZ-106	SMPZ-106-GW031811	Pa-231	Suspended	-7.7 U	29	8.6	14
PZ-106	SMPZ-106-GW031811	Pa-231	Total	-12	NA	18	NA
PZ-106	SMPZ-106-GW031811	Pb-212	Filtered	1.78	1.9	0.66	0.92
PZ-106	SMPZ-106-GW031811	Pb-212	Suspended	0.06 U	1.1	0.33	0.52
PZ-106	SMPZ-106-GW031811	Pb-212	Total	1.84	NA	0.74	NA
PZ-106	SMPZ-106-GW031811	Pb-214	Filtered	1.88	2.3	0.9	1.1
PZ-106	SMPZ-106-GW031811	Pb-214	Suspended	-0.18 U	1.5	0.59	0.73
PZ-106	SMPZ-106-GW031811	Pb-214	Total	1.7	NA	1.1	NA
PZ-106	SMPZ-106-GW031811	Sb-125	Filtered	0.9 U	11	3.3	5.5
PZ-106	SMPZ-106-GW031811	Sb-125	Suspended	0.5 U	4	1.2	1.9
PZ-106	SMPZ-106-GW031811	Sb-125	Total	1.4	NA	3.5	NA
PZ-106	SMPZ-106-GW031811	Sn-126	Filtered	0.21 U	1.3	0.39	0.62
PZ-106	SMPZ-106-GW031811	Sn-126	Suspended	0.09 U	0.81	0.24	0.39
PZ-106	SMPZ-106-GW031811	Sn-126	Total	0.31	NA	0.46	NA
PZ-106	SMPZ-106-GW031811	Sr-90	Filtered	0.051 U	0.17	0.051	0.1
PZ-106	SMPZ-106-GW031811	Sr-90	Suspended	-0.047 U	0.18	0.049	0.11
PZ-106	SMPZ-106-GW031811	Sr-90	Total	0.004	NA	0.07	NA
PZ-106	SMPZ-106-GW031811	Te-125m	Filtered	0.2 U	2.6	0.77	1.3
PZ-106	SMPZ-106-GW031811	Te-125m	Suspended	0.12 U	0.92	0.27	0.44
PZ-106	SMPZ-106-GW031811	Te-125m	Total	0.32	NA	0.82	NA
PZ-106	SMPZ-106-GW031811	Th-231	Filtered	0.186	0.008	0.024	0.006
PZ-106	SMPZ-106-GW031811	Th-231	Suspended	0 U	0.0061	0.0018	0.0047

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-106	SMPZ-106-GW031811	Th-231	Total	0.186	NA	0.024	NA
PZ-106	SMPZ-106-GW031811	Th-234	Filtered	16	22	7.3	11
PZ-106	SMPZ-106-GW031811	Th-234	Suspended	3.5 U	8.4	2.7	4.1
PZ-106	SMPZ-106-GW031811	Th-234	Total	19.5	NA	7.8	NA
PZ-106	SMPZ-106-GW031811	Tl-208	Filtered	-0.9 U	2	14	0.8
PZ-106	SMPZ-106-GW031811	Tl-208	Suspended	-0.33 U	0.87	0.44	0.42
PZ-106	SMPZ-106-GW031811	Tl-208	Total	-1	NA	14	NA
PZ-106	SMPZ-106-GW031811	Tm-171	Filtered	-7 U	290	84	140
PZ-106	SMPZ-106-GW031811	Tm-171	Suspended	30 U	100	31	51
PZ-106	SMPZ-106-GW031811	Tm-171	Total	23	NA	90	NA
PZ-106	SMPZ-106-GW031811	U-233/234	Filtered	3.73	0.02	0.18	0.005
PZ-106	SMPZ-106-GW031811	U-233/234	Suspended	0.0138	0.0049	0.0065	0.0037
PZ-106	SMPZ-106-GW031811	U-233/234	Total	3.74	NA	0.18	NA
PZ-106	SMPZ-106-GW031811	U-235/236	Filtered	0.186	0.008	0.024	0.006
PZ-106	SMPZ-106-GW031811	U-235/236	Suspended	0 U	0.0061	0.0018	0.0047
PZ-106	SMPZ-106-GW031811	U-235/236	Total	0.186	NA	0.024	NA
PZ-106	SMPZ-106-GW031811	U-238	Filtered	3.2	0.02	0.16	0.008
PZ-106	SMPZ-106-GW031811	U-238	Suspended	0.0166	0.012	0.0069	0.0037
PZ-106	SMPZ-106-GW031811	U-238	Total	3.21	NA	0.16	NA
PZ-108	SMPZ-108-GW031711	Ac-227	Filtered	-0.02 U	8.6	2.5	4.2
PZ-108	SMPZ-108-GW031711	Ac-227	Suspended	-2.7 U	4.5	1.4	2.2
PZ-108	SMPZ-108-GW031711	Ac-227	Total	-2.7	NA	2.9	NA
PZ-108	SMPZ-108-GW031711	Ac-228	Filtered	2.2	4.5	1.4	2
PZ-108	SMPZ-108-GW031711	Ac-228	Suspended	-0.33 U	2.8	0.97	1.4
PZ-108	SMPZ-108-GW031711	Ac-228	Total	1.9	NA	1.7	NA
PZ-108	SMPZ-108-GW031711	Ag-108	Filtered	0 R	0.12	0.035	0.058
PZ-108	SMPZ-108-GW031711	Ag-108	Suspended	-0.014 R	0.056	0.017	0.027
PZ-108	SMPZ-108-GW031711	Ag-108	Total	-0.014 R	NA	0.039	NA
PZ-108	SMPZ-108-GW031711	Ag-108m	Filtered	0 R	1.3	0.38	0.62
PZ-108	SMPZ-108-GW031711	Ag-108m	Suspended	-0.15 R	0.6	0.18	0.29
PZ-108	SMPZ-108-GW031711	Ag-108m	Total	-0.15 R	NA	0.42	NA
PZ-108	SMPZ-108-GW031711	Ba-133	Filtered	0.4 R	14	4.2	6.9
PZ-108	SMPZ-108-GW031711	Ba-133	Suspended	-0.2 R	5.5	1.6	2.6
PZ-108	SMPZ-108-GW031711	Ba-133	Total	0.2 R	NA	4.5	NA
PZ-108	SMPZ-108-GW031711	Ba-137m	Filtered	0.34 U	1.6	0.47	0.76
PZ-108	SMPZ-108-GW031711	Ba-137m	Suspended	0.09 U	0.66	0.19	0.32
PZ-108	SMPZ-108-GW031711	Ba-137m	Total	0.43	NA	0.51	NA
PZ-108	SMPZ-108-GW031711	Bi-212	Filtered	-10 U	14	27	7

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW031711	Bi-212	Suspended	1.6 U	5.3	1.6	2.5
PZ-108	SMPZ-108-GW031711	Bi-212	Total	-9	NA	27	NA
PZ-108	SMPZ-108-GW031711	Bi-214	Filtered	2.9	3.6	1.5	1.7
PZ-108	SMPZ-108-GW031711	Bi-214	Suspended	0.46 U	1.8	0.71	0.86
PZ-108	SMPZ-108-GW031711	Bi-214	Total	3.4	NA	1.7	NA
PZ-108	SMPZ-108-GW031711	Cd-113m	Filtered	-1100 U	16000	4600	7500
PZ-108	SMPZ-108-GW031711	Cd-113m	Suspended	-70 U	4700	1400	2200
PZ-108	SMPZ-108-GW031711	Cd-113m	Total	-1200	NA	4800	NA
PZ-108	SMPZ-108-GW031711	Cf-249	Filtered	1.7 R	6.6	2	3.1
PZ-108	SMPZ-108-GW031711	Cf-249	Suspended	0.86 R	3.1	0.92	1.5
PZ-108	SMPZ-108-GW031711	Cf-249	Total	2.6 R	NA	2.2	NA
PZ-108	SMPZ-108-GW031711	Co-60	Filtered	0.63	1.4	0.43	0.63
PZ-108	SMPZ-108-GW031711	Co-60	Suspended	-0.02 U	0.75	0.21	0.35
PZ-108	SMPZ-108-GW031711	Co-60	Total	0.61	NA	0.48	NA
PZ-108	SMPZ-108-GW031711	Cs-134	Filtered	-0.29 U	1.5	0.43	0.7
PZ-108	SMPZ-108-GW031711	Cs-134	Suspended	-0.12 U	0.72	0.21	0.35
PZ-108	SMPZ-108-GW031711	Cs-134	Total	-0.4	NA	0.48	NA
PZ-108	SMPZ-108-GW031711	Cs-137	Filtered	0.36 U	1.7	0.5	0.8
PZ-108	SMPZ-108-GW031711	Cs-137	Suspended	0.09 U	0.7	0.21	0.33
PZ-108	SMPZ-108-GW031711	Cs-137	Total	0.46	NA	0.54	NA
PZ-108	SMPZ-108-GW031711	Eu-152	Filtered	-0.12 U	3.2	0.93	1.5
PZ-108	SMPZ-108-GW031711	Eu-152	Suspended	-0.1 U	1.5	0.44	0.72
PZ-108	SMPZ-108-GW031711	Eu-152	Total	-0.2	NA	1	NA
PZ-108	SMPZ-108-GW031711	Eu-154	Filtered	0.5 U	10	2.8	4.5
PZ-108	SMPZ-108-GW031711	Eu-154	Suspended	1.6 U	4.9	1.5	2.3
PZ-108	SMPZ-108-GW031711	Eu-154	Total	2.2	NA	3.1	NA
PZ-108	SMPZ-108-GW031711	Eu-155	Filtered	1.01 U	3.1	0.93	1.5
PZ-108	SMPZ-108-GW031711	Eu-155	Suspended	-0.04 U	1.2	0.35	0.58
PZ-108	SMPZ-108-GW031711	Eu-155	Total	0.966	NA	0.996	NA
PZ-108	SMPZ-108-GW031711	gross_alpha	Filtered	32.3	0.5	1.6	0.3
PZ-108	SMPZ-108-GW031711	gross_alpha	Suspended	0.18 U	0.68	0.19	0.35
PZ-108	SMPZ-108-GW031711	gross_alpha	Total	32.5	NA	1.6	NA
PZ-108	SMPZ-108-GW031711	gross_beta	Filtered	10.1	3	1.4	1.7
PZ-108	SMPZ-108-GW031711	gross_beta	Suspended	0.57	0.79	0.25	0.47
PZ-108	SMPZ-108-GW031711	gross_beta	Total	10.7	NA	1.4	NA
PZ-108	SMPZ-108-GW031711	H-3	Total	-20 U	140	41	68
PZ-108	SMPZ-108-GW031711	Ho-166m	Filtered	-0.06 U	2.2	0.61	1
PZ-108	SMPZ-108-GW031711	Ho-166m	Suspended	-0.32 U	1.1	0.33	0.54

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW031711	Ho-166m	Total	-0.38	NA	0.7	NA
PZ-108	SMPZ-108-GW031711	K-40	Filtered	-9 U	26	13	12
PZ-108	SMPZ-108-GW031711	K-40	Suspended	-7 U	13	6.3	6.2
PZ-108	SMPZ-108-GW031711	K-40	Total	-16	NA	14	NA
PZ-108	SMPZ-108-GW031711	Na-22	Filtered	0.31 U	1.5	0.44	0.69
PZ-108	SMPZ-108-GW031711	Na-22	Suspended	0 U	0.68	0.19	0.32
PZ-108	SMPZ-108-GW031711	Na-22	Total	0.31	NA	0.48	NA
PZ-108	SMPZ-108-GW031711	Nb-94	Filtered	-0.43 U	1.6	0.47	0.75
PZ-108	SMPZ-108-GW031711	Nb-94	Suspended	-0.2 U	0.7	0.21	0.33
PZ-108	SMPZ-108-GW031711	Nb-94	Total	-0.63	NA	0.52	NA
PZ-108	SMPZ-108-GW031711	Np-236	Filtered	-0.82 U	2.9	0.86	1.4
PZ-108	SMPZ-108-GW031711	Np-236	Suspended	0.01 U	1.2	0.34	0.56
PZ-108	SMPZ-108-GW031711	Np-236	Total	-0.81	NA	0.92	NA
PZ-108	SMPZ-108-GW031711	Np-239	Filtered	1.2 U	7.9	2.3	3.8
PZ-108	SMPZ-108-GW031711	Np-239	Suspended	-1.3 U	3.9	1.2	1.9
PZ-108	SMPZ-108-GW031711	Np-239	Total	-0.2	NA	2.6	NA
PZ-108	SMPZ-108-GW031711	Pa-231	Filtered	-21 U	64	19	31
PZ-108	SMPZ-108-GW031711	Pa-231	Suspended	-4.2 U	28	8.4	14
PZ-108	SMPZ-108-GW031711	Pa-231	Total	-25	NA	21	NA
PZ-108	SMPZ-108-GW031711	Pb-212	Filtered	0.41 U	2.4	0.81	1.2
PZ-108	SMPZ-108-GW031711	Pb-212	Suspended	-0.07 U	1.1	0.37	0.54
PZ-108	SMPZ-108-GW031711	Pb-212	Total	0.34	NA	0.89	NA
PZ-108	SMPZ-108-GW031711	Pb-214	Filtered	0.5 U	3.2	1.1	1.5
PZ-108	SMPZ-108-GW031711	Pb-214	Suspended	0.42 U	1.5	0.54	0.72
PZ-108	SMPZ-108-GW031711	Pb-214	Total	0.9	NA	1.2	NA
PZ-108	SMPZ-108-GW031711	Sb-125	Filtered	-3.3 U	13	4	6.4
PZ-108	SMPZ-108-GW031711	Sb-125	Suspended	0.001 U	5.7	1.7	2.8
PZ-108	SMPZ-108-GW031711	Sb-125	Total	-3.3	NA	4.3	NA
PZ-108	SMPZ-108-GW031711	Sn-126	Filtered	0.08 U	1.6	0.45	0.73
PZ-108	SMPZ-108-GW031711	Sn-126	Suspended	0.11 U	0.74	0.22	0.35
PZ-108	SMPZ-108-GW031711	Sn-126	Total	0.18	NA	0.5	NA
PZ-108	SMPZ-108-GW031711	Sr-90	Filtered	0.043 U	0.13	0.039	0.074
PZ-108	SMPZ-108-GW031711	Sr-90	Suspended	0.087	0.14	0.044	0.085
PZ-108	SMPZ-108-GW031711	Sr-90	Total	0.13	NA	0.059	NA
PZ-108	SMPZ-108-GW031711	Te-125m	Filtered	-0.76 U	3.1	0.92	1.5
PZ-108	SMPZ-108-GW031711	Te-125m	Suspended	0.0003 U	1.3	0.39	0.64
PZ-108	SMPZ-108-GW031711	Te-125m	Total	-0.756	NA	0.999	NA
PZ-108	SMPZ-108-GW031711	Th-231	Filtered	0.803	0.022	0.062	0.007

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-108	SMPZ-108-GW031711	Th-231	Suspended	0.0026 U	0.007	0.0026	0.006
PZ-108	SMPZ-108-GW031711	Th-231	Total	0.825	NA	0.063	NA
PZ-108	SMPZ-108-GW031711	Th-234	Filtered	15.7	24	8.5	12
PZ-108	SMPZ-108-GW031711	Th-234	Suspended	1.7 U	9	3.1	4.4
PZ-108	SMPZ-108-GW031711	Th-234	Total	17.4	NA	9.1	NA
PZ-108	SMPZ-108-GW031711	Tl-208	Filtered	-0.6 U	1.8	1.2	0.8
PZ-108	SMPZ-108-GW031711	Tl-208	Suspended	-0.24 U	0.81	0.33	0.39
PZ-108	SMPZ-108-GW031711	Tl-208	Total	-0.9	NA	1.2	NA
PZ-108	SMPZ-108-GW031711	Tm-171	Filtered	-74 U	290	88	140
PZ-108	SMPZ-108-GW031711	Tm-171	Suspended	-1 U	120	35	58
PZ-108	SMPZ-108-GW031711	Tm-171	Total	-75	NA	95	NA
PZ-108	SMPZ-108-GW031711	U-233/234	Filtered	16.2	0.02	0.71	0.008
PZ-108	SMPZ-108-GW031711	U-233/234	Suspended	0.0142	0.015	0.0078	0.0048
PZ-108	SMPZ-108-GW031711	U-233/234	Total	16.2	NA	0.71	NA
PZ-108	SMPZ-108-GW031711	U-235/236	Filtered	0.803	0.022	0.062	0.007
PZ-108	SMPZ-108-GW031711	U-235/236	Suspended	0.0026 U	0.007	0.0026	0.006
PZ-108	SMPZ-108-GW031711	U-235/236	Total	0.806	NA	0.062	NA
PZ-108	SMPZ-108-GW031711	U-238	Filtered	15.8	0.007	0.7	0.006
PZ-108	SMPZ-108-GW031711	U-238	Suspended	0.019	0.015	0.008	0.0048
PZ-108	SMPZ-108-GW031711	U-238	Total	15.9	NA	0.7	NA
PZ-109	SMPZ-109-GW032411	Ac-227	Filtered	-10.1 R U	9.9	3.1	4.8
PZ-109	SMPZ-109-GW032411	Ac-227	Suspended	-3.7 L U	4.6	1.4	2.3
PZ-109	SMPZ-109-GW032411	Ac-227	Total	-13.8 R	NA	3.4	NA
PZ-109	SMPZ-109-GW032411	Ac-228	Filtered	1.9	3.5	1.1	1.6
PZ-109	SMPZ-109-GW032411	Ac-228	Suspended	-1.5 U	3	2.1	1.5
PZ-109	SMPZ-109-GW032411	Ac-228	Total	0.4	NA	2.4	NA
PZ-109	SMPZ-109-GW032411	Ag-108	Filtered	-0.032 U R	0.089	0.027	0.043
PZ-109	SMPZ-109-GW032411	Ag-108	Suspended	0.013 U R	0.053	0.016	0.026
PZ-109	SMPZ-109-GW032411	Ag-108	Total	-0.019 R	NA	0.031	NA
PZ-109	SMPZ-109-GW032411	Ag-108m	Filtered	-0.34 U R	0.96	0.29	0.46
PZ-109	SMPZ-109-GW032411	Ag-108m	Suspended	0.14 U R	0.57	0.17	0.28
PZ-109	SMPZ-109-GW032411	Ag-108m	Total	-0.2 R	NA	0.33	NA
PZ-109	SMPZ-109-GW032411	Ba-133	Filtered	-0.9 U R	11	3.4	5.5
PZ-109	SMPZ-109-GW032411	Ba-133	Suspended	0.3 U R	5.1	1.5	2.4
PZ-109	SMPZ-109-GW032411	Ba-133	Total	-0.6 R	NA	3.7	NA
PZ-109	SMPZ-109-GW032411	Ba-137m	Filtered	0.09 U	1.1	0.32	0.51
PZ-109	SMPZ-109-GW032411	Ba-137m	Suspended	0.16 U	0.65	0.19	0.31
PZ-109	SMPZ-109-GW032411	Ba-137m	Total	0.25	NA	0.37	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW032411	Bi-212	Filtered	0.3 U	9.3	2.6	4.4
PZ-109	SMPZ-109-GW032411	Bi-212	Suspended	3	5.6	1.7	2.7
PZ-109	SMPZ-109-GW032411	Bi-212	Total	3.3	NA	3.1	NA
PZ-109	SMPZ-109-GW032411	Bi-214	Filtered	3.08	3.2	0.91	1.5
PZ-109	SMPZ-109-GW032411	Bi-214	Suspended	1.16	1.5	0.52	0.71
PZ-109	SMPZ-109-GW032411	Bi-214	Total	4.2	NA	1	NA
PZ-109	SMPZ-109-GW032411	Cd-113m	Filtered	3700 U	13000	3800	6100
PZ-109	SMPZ-109-GW032411	Cd-113m	Suspended	-1100 U	7000	2100	3400
PZ-109	SMPZ-109-GW032411	Cd-113m	Total	2600	NA	4300	NA
PZ-109	SMPZ-109-GW032411	Cf-249	Filtered	0.05 U R	5.2	1.5	2.5
PZ-109	SMPZ-109-GW032411	Cf-249	Suspended	-0.55 U R	3	0.89	1.4
PZ-109	SMPZ-109-GW032411	Cf-249	Total	-0.5 R	NA	1.8	NA
PZ-109	SMPZ-109-GW032411	Co-60	Filtered	0.18 U	0.98	0.28	0.45
PZ-109	SMPZ-109-GW032411	Co-60	Suspended	0.24 U	0.68	0.2	0.31
PZ-109	SMPZ-109-GW032411	Co-60	Total	0.43	NA	0.35	NA
PZ-109	SMPZ-109-GW032411	Cs-134	Filtered	-0.002 U	1.2	0.35	0.58
PZ-109	SMPZ-109-GW032411	Cs-134	Suspended	-0.004 U	0.73	0.21	0.35
PZ-109	SMPZ-109-GW032411	Cs-134	Total	-0.005	NA	0.41	NA
PZ-109	SMPZ-109-GW032411	Cs-137	Filtered	0.09 U	1.1	0.33	0.54
PZ-109	SMPZ-109-GW032411	Cs-137	Suspended	0.17 U	0.68	0.2	0.33
PZ-109	SMPZ-109-GW032411	Cs-137	Total	0.26	NA	0.39	NA
PZ-109	SMPZ-109-GW032411	Eu-152	Filtered	0.22 U	3	0.88	1.4
PZ-109	SMPZ-109-GW032411	Eu-152	Suspended	0.1 U	1.5	0.45	0.74
PZ-109	SMPZ-109-GW032411	Eu-152	Total	0.31	NA	0.99	NA
PZ-109	SMPZ-109-GW032411	Eu-154	Filtered	-1.5 U	9.2	2.7	4.3
PZ-109	SMPZ-109-GW032411	Eu-154	Suspended	1.6 U	5.2	1.5	2.4
PZ-109	SMPZ-109-GW032411	Eu-154	Total	0.06	NA	3.1	NA
PZ-109	SMPZ-109-GW032411	Eu-155	Filtered	-0.37 U	3	0.88	1.4
PZ-109	SMPZ-109-GW032411	Eu-155	Suspended	-0.27 U	1.4	0.42	0.68
PZ-109	SMPZ-109-GW032411	Eu-155	Total	-0.64	NA	0.97	NA
PZ-109	SMPZ-109-GW032411	gross_alpha	Filtered	7.49	0.72	0.65	0.39
PZ-109	SMPZ-109-GW032411	gross_alpha	Suspended	0.61	0.57	0.21	0.3
PZ-109	SMPZ-109-GW032411	gross_alpha	Total	8.1	NA	0.68	NA
PZ-109	SMPZ-109-GW032411	gross_beta	Filtered	5.69	2.1	0.9	1.2
PZ-109	SMPZ-109-GW032411	gross_beta	Suspended	1.07	0.85	0.29	0.5
PZ-109	SMPZ-109-GW032411	gross_beta	Total	6.76	NA	0.95	NA
PZ-109	SMPZ-109-GW032411	H-3	Total	-17 U	140	42	69
PZ-109	SMPZ-109-GW032411	Ho-166m	Filtered	-0.26 U	2	0.59	0.95

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW032411	Ho-166m	Suspended	-0.26 U	1.2	0.34	0.56
PZ-109	SMPZ-109-GW032411	Ho-166m	Total	-0.52	NA	0.68	NA
PZ-109	SMPZ-109-GW032411	K-40	Filtered	-1.5 U	17	4.3	7.9
PZ-109	SMPZ-109-GW032411	K-40	Suspended	6.6	12	4.1	6
PZ-109	SMPZ-109-GW032411	K-40	Total	5.1	NA	6	NA
PZ-109	SMPZ-109-GW032411	Na-22	Filtered	0.21 U	1.2	0.34	0.55
PZ-109	SMPZ-109-GW032411	Na-22	Suspended	-0.1 U	0.81	0.23	0.38
PZ-109	SMPZ-109-GW032411	Na-22	Total	0.12	NA	0.41	NA
PZ-109	SMPZ-109-GW032411	Nb-94	Filtered	-0.05 U	0.87	0.25	0.41
PZ-109	SMPZ-109-GW032411	Nb-94	Suspended	-0.09 U	0.55	0.16	0.26
PZ-109	SMPZ-109-GW032411	Nb-94	Total	-0.14	NA	0.3	NA
PZ-109	SMPZ-109-GW032411	Np-236	Filtered	-0.59 U	2.7	0.8	1.3
PZ-109	SMPZ-109-GW032411	Np-236	Suspended	0.33 U	1.2	0.35	0.57
PZ-109	SMPZ-109-GW032411	Np-236	Total	-0.26	NA	0.87	NA
PZ-109	SMPZ-109-GW032411	Np-239	Filtered	-0.1 U	6.9	2	3.4
PZ-109	SMPZ-109-GW032411	Np-239	Suspended	-0.7 U	3.6	1.1	1.7
PZ-109	SMPZ-109-GW032411	Np-239	Total	-0.8	NA	2.3	NA
PZ-109	SMPZ-109-GW032411	Pa-231	Filtered	11 U	52	15	25
PZ-109	SMPZ-109-GW032411	Pa-231	Suspended	1.9 U	25	7.3	12
PZ-109	SMPZ-109-GW032411	Pa-231	Total	13	NA	17	NA
PZ-109	SMPZ-109-GW032411	Pb-212	Filtered	1.45	2.4	0.83	1.2
PZ-109	SMPZ-109-GW032411	Pb-212	Suspended	0.73	0.96	0.3	0.47
PZ-109	SMPZ-109-GW032411	Pb-212	Total	2.18	NA	0.89	NA
PZ-109	SMPZ-109-GW032411	Pb-214	Filtered	0.45 U	2.5	0.92	1.2
PZ-109	SMPZ-109-GW032411	Pb-214	Suspended	0.25 U	1.2	0.41	0.6
PZ-109	SMPZ-109-GW032411	Pb-214	Total	0.7	NA	1	NA
PZ-109	SMPZ-109-GW032411	Sb-125	Filtered	-1.7 U	12	3.5	5.8
PZ-109	SMPZ-109-GW032411	Sb-125	Suspended	-0.005 U	4.7	1.4	2.3
PZ-109	SMPZ-109-GW032411	Sb-125	Total	-1.7	NA	3.8	NA
PZ-109	SMPZ-109-GW032411	Sn-126	Filtered	0.15 U	1.2	0.35	0.57
PZ-109	SMPZ-109-GW032411	Sn-126	Suspended	0.27 U	0.87	0.26	0.42
PZ-109	SMPZ-109-GW032411	Sn-126	Total	0.42	NA	0.43	NA
PZ-109	SMPZ-109-GW032411	Sr-90	Filtered	0.042	0.071	0.022	0.04
PZ-109	SMPZ-109-GW032411	Sr-90	Suspended	0.012 U	0.067	0.02	0.038
PZ-109	SMPZ-109-GW032411	Sr-90	Total	0.055	NA	0.03	NA
PZ-109	SMPZ-109-GW032411	Te-125m	Filtered	-0.4 U	2.7	0.82	1.3
PZ-109	SMPZ-109-GW032411	Te-125m	Suspended	-0.001 U	1.1	0.32	0.52
PZ-109	SMPZ-109-GW032411	Te-125m	Total	-0.4	NA	0.88	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-109	SMPZ-109-GW032411	Th-231	Filtered	0.216	0.007	0.025	0.005
PZ-109	SMPZ-109-GW032411	Th-231	Suspended	0.001 U	0.02	0.0047	0.0072
PZ-109	SMPZ-109-GW032411	Th-231	Total	0.217	NA	0.025	NA
PZ-109	SMPZ-109-GW032411	Th-234	Filtered	0.07 U	21	6.6	10
PZ-109	SMPZ-109-GW032411	Th-234	Suspended	-0.4 U	8.5	2.6	4.1
PZ-109	SMPZ-109-GW032411	Th-234	Total	-0.3	NA	7.1	NA
PZ-109	SMPZ-109-GW032411	Tl-208	Filtered	0.52 U	1.3	0.47	0.63
PZ-109	SMPZ-109-GW032411	Tl-208	Suspended	-0.14 U	0.89	0.31	0.43
PZ-109	SMPZ-109-GW032411	Tl-208	Total	0.38	NA	0.56	NA
PZ-109	SMPZ-109-GW032411	Tm-171	Filtered	0 U	340	100	170
PZ-109	SMPZ-109-GW032411	Tm-171	Suspended	11 U	110	34	56
PZ-109	SMPZ-109-GW032411	Tm-171	Total	10	NA	110	NA
PZ-109	SMPZ-109-GW032411	U-233/234	Filtered	5.84	0.005	0.27	0.004
PZ-109	SMPZ-109-GW032411	U-233/234	Suspended	0.0263	0.013	0.0088	0.0041
PZ-109	SMPZ-109-GW032411	U-233/234	Total	5.87	NA	0.27	NA
PZ-109	SMPZ-109-GW032411	U-235/236	Filtered	0.216	0.007	0.025	0.005
PZ-109	SMPZ-109-GW032411	U-235/236	Suspended	0.001 U	0.02	0.0044	0.0072
PZ-109	SMPZ-109-GW032411	U-235/236	Total	0.217	NA	0.025	NA
PZ-109	SMPZ-109-GW032411	U-238	Filtered	5.18	0.005	0.24	0.004
PZ-109	SMPZ-109-GW032411	U-238	Suspended	0.0365	0.013	0.0097	0.0041
PZ-109	SMPZ-109-GW032411	U-238	Total	5.22	NA	0.24	NA
PZ-111	SMPZ-111-GW033111	Ac-227	Filtered	0.2 U	11	3.4	5.6
PZ-111	SMPZ-111-GW033111	Ac-227	Suspended	-3.6 L U	4.7	1.4	2.3
PZ-111	SMPZ-111-GW033111	Ac-227	Total	-3.4	NA	3.7	NA
PZ-111	SMPZ-111-GW033111	Ac-228	Filtered	2.3	3.6	1.1	1.7
PZ-111	SMPZ-111-GW033111	Ac-228	Suspended	0.8 U	2.1	0.62	0.97
PZ-111	SMPZ-111-GW033111	Ac-228	Total	3	NA	1.3	NA
PZ-111	SMPZ-111-GW033111	Ag-108	Filtered	-0.019 U R	0.096	0.028	0.046
PZ-111	SMPZ-111-GW033111	Ag-108	Suspended	0.018 U R	0.042	0.013	0.02
PZ-111	SMPZ-111-GW033111	Ag-108	Total	-0.0008 R	NA	0.031	NA
PZ-111	SMPZ-111-GW033111	Ag-108m	Filtered	-0.2 U R	1	0.31	0.5
PZ-111	SMPZ-111-GW033111	Ag-108m	Suspended	0.19 U R	0.46	0.14	0.22
PZ-111	SMPZ-111-GW033111	Ag-108m	Total	-0.008 R	NA	0.34	NA
PZ-111	SMPZ-111-GW033111	Ba-133	Filtered	2 U R	11	3.3	5.4
PZ-111	SMPZ-111-GW033111	Ba-133	Suspended	0.08 U R	4.8	1.4	2.3
PZ-111	SMPZ-111-GW033111	Ba-133	Total	2 R	NA	3.6	NA
PZ-111	SMPZ-111-GW033111	Ba-137m	Filtered	0.24 U	1	0.3	0.48
PZ-111	SMPZ-111-GW033111	Ba-137m	Suspended	0.14 U	0.51	0.15	0.24

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-111	SMPZ-111-GW033111	Ba-137m	Total	0.38	NA	0.33	NA
PZ-111	SMPZ-111-GW033111	Bi-212	Filtered	2.9 U	7.3	2.2	3.4
PZ-111	SMPZ-111-GW033111	Bi-212	Suspended	3.2	4.6	1.4	2.2
PZ-111	SMPZ-111-GW033111	Bi-212	Total	6.1	NA	2.6	NA
PZ-111	SMPZ-111-GW033111	Bi-214	Filtered	-0.4 U	2.8	1.1	1.4
PZ-111	SMPZ-111-GW033111	Bi-214	Suspended	1.51	1.6	0.68	0.78
PZ-111	SMPZ-111-GW033111	Bi-214	Total	1.1	NA	1.3	NA
PZ-111	SMPZ-111-GW033111	Cd-113m	Filtered	-100 U	14000	4100	6800
PZ-111	SMPZ-111-GW033111	Cd-113m	Suspended	2200 U	6300	1900	3000
PZ-111	SMPZ-111-GW033111	Cd-113m	Total	2100	NA	4500	NA
PZ-111	SMPZ-111-GW033111	Cf-249	Filtered	1 U R	5.2	1.5	2.5
PZ-111	SMPZ-111-GW033111	Cf-249	Suspended	0.06 U R	2.8	0.81	1.3
PZ-111	SMPZ-111-GW033111	Cf-249	Total	1.1 R	NA	1.7	NA
PZ-111	SMPZ-111-GW033111	Co-60	Filtered	0.09 U	1.2	0.34	0.55
PZ-111	SMPZ-111-GW033111	Co-60	Suspended	0.16 U	0.6	0.18	0.28
PZ-111	SMPZ-111-GW033111	Co-60	Total	0.25	NA	0.38	NA
PZ-111	SMPZ-111-GW033111	Cs-134	Filtered	0.18 U	1.1	0.32	0.53
PZ-111	SMPZ-111-GW033111	Cs-134	Suspended	-0.07 U	0.67	0.2	0.32
PZ-111	SMPZ-111-GW033111	Cs-134	Total	0.1	NA	0.38	NA
PZ-111	SMPZ-111-GW033111	Cs-137	Filtered	0.25 U	1.1	0.31	0.5
PZ-111	SMPZ-111-GW033111	Cs-137	Suspended	0.15 U	0.54	0.16	0.25
PZ-111	SMPZ-111-GW033111	Cs-137	Total	0.4	NA	0.35	NA
PZ-111	SMPZ-111-GW033111	Eu-152	Filtered	1.09 U	2.4	0.72	1.1
PZ-111	SMPZ-111-GW033111	Eu-152	Suspended	-0.51 U	1.8	0.53	0.86
PZ-111	SMPZ-111-GW033111	Eu-152	Total	0.58	NA	0.9	NA
PZ-111	SMPZ-111-GW033111	Eu-154	Filtered	2.6 U	10	3.1	5
PZ-111	SMPZ-111-GW033111	Eu-154	Suspended	-0.9 U	5.3	1.6	2.5
PZ-111	SMPZ-111-GW033111	Eu-154	Total	1.8	NA	3.5	NA
PZ-111	SMPZ-111-GW033111	Eu-155	Filtered	0 U	3.3	0.97	1.6
PZ-111	SMPZ-111-GW033111	Eu-155	Suspended	0.29 U	0.98	0.29	0.47
PZ-111	SMPZ-111-GW033111	Eu-155	Total	0.3	NA	1	NA
PZ-111	SMPZ-111-GW033111	gross_alpha	Filtered	2.09	0.59	0.34	0.31
PZ-111	SMPZ-111-GW033111	gross_alpha	Suspended	2.65	0.44	0.32	0.23
PZ-111	SMPZ-111-GW033111	gross_alpha	Total	5.9	NA	0.5	NA
PZ-111	SMPZ-111-GW033111	gross_beta	Filtered	3.9	3	1.1	1.8
PZ-111	SMPZ-111-GW033111	gross_beta	Suspended	0.28 U	0.81	0.24	0.48
PZ-111	SMPZ-111-GW033111	gross_beta	Total	4.2	NA	1.1	NA
PZ-111	SMPZ-111-GW033111	H-3	Total	-7 U	140	42	69

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-111	SMPZ-111-GW033111	Ho-166m	Filtered	0.74 SK	1.2	0.37	0.55
PZ-111	SMPZ-111-GW033111	Ho-166m	Suspended	-0.25 U	1.1	0.31	0.51
PZ-111	SMPZ-111-GW033111	Ho-166m	Total	0.49 SK	NA	0.49	NA
PZ-111	SMPZ-111-GW033111	K-40	Filtered	12	17	5.5	8.1
PZ-111	SMPZ-111-GW033111	K-40	Suspended	-1.5 U	9.7	2.7	4.6
PZ-111	SMPZ-111-GW033111	K-40	Total	10.5	NA	6.1	NA
PZ-111	SMPZ-111-GW033111	Na-22	Filtered	0.44 U	1	0.31	0.46
PZ-111	SMPZ-111-GW033111	Na-22	Suspended	-0.03 U	0.65	0.18	0.3
PZ-111	SMPZ-111-GW033111	Na-22	Total	0.41	NA	0.36	NA
PZ-111	SMPZ-111-GW033111	Nb-94	Filtered	-0.42 U	1.3	0.38	0.6
PZ-111	SMPZ-111-GW033111	Nb-94	Suspended	-0.11 U	0.66	0.19	0.32
PZ-111	SMPZ-111-GW033111	Nb-94	Total	-0.52	NA	0.42	NA
PZ-111	SMPZ-111-GW033111	Np-236	Filtered	-0.58 U	2.9	0.86	1.4
PZ-111	SMPZ-111-GW033111	Np-236	Suspended	0.22 U	0.98	0.29	0.47
PZ-111	SMPZ-111-GW033111	Np-236	Total	-0.35	NA	0.91	NA
PZ-111	SMPZ-111-GW033111	Np-239	Filtered	2 U	6.4	1.9	3.1
PZ-111	SMPZ-111-GW033111	Np-239	Suspended	-0.04 U	3.4	0.99	1.6
PZ-111	SMPZ-111-GW033111	Np-239	Total	1.9	NA	2.2	NA
PZ-111	SMPZ-111-GW033111	Pa-231	Filtered	-2 U	53	16	26
PZ-111	SMPZ-111-GW033111	Pa-231	Suspended	4.5 U	23	6.9	11
PZ-111	SMPZ-111-GW033111	Pa-231	Total	2	NA	17	NA
PZ-111	SMPZ-111-GW033111	Pb-212	Filtered	0.55 U	2.2	0.68	1.1
PZ-111	SMPZ-111-GW033111	Pb-212	Suspended	0.38 U	1.1	0.33	0.53
PZ-111	SMPZ-111-GW033111	Pb-212	Total	0.93	NA	0.75	NA
PZ-111	SMPZ-111-GW033111	Pb-214	Filtered	0.19 U	2.4	0.82	1.1
PZ-111	SMPZ-111-GW033111	Pb-214	Suspended	1.37	1.2	0.47	0.59
PZ-111	SMPZ-111-GW033111	Pb-214	Total	1.57	NA	0.94	NA
PZ-111	SMPZ-111-GW033111	Sb-125	Filtered	-2.3 U	13	4	6.5
PZ-111	SMPZ-111-GW033111	Sb-125	Suspended	-1.2 U	5.2	1.6	2.5
PZ-111	SMPZ-111-GW033111	Sb-125	Total	-3.5	NA	4.3	NA
PZ-111	SMPZ-111-GW033111	Sn-126	Filtered	0.34 U	1.3	0.37	0.6
PZ-111	SMPZ-111-GW033111	Sn-126	Suspended	0.29 U	0.71	0.22	0.34
PZ-111	SMPZ-111-GW033111	Sn-126	Total	0.63	NA	0.43	NA
PZ-111	SMPZ-111-GW033111	Sr-90	Filtered	0.038 U	0.14	0.041	0.078
PZ-111	SMPZ-111-GW033111	Sr-90	Suspended	0.014 U	0.049	0.014	0.027
PZ-111	SMPZ-111-GW033111	Sr-90	Total	0.051	NA	0.044	NA
PZ-111	SMPZ-111-GW033111	Te-125m	Filtered	-0.54 U	3.1	0.92	1.5
PZ-111	SMPZ-111-GW033111	Te-125m	Suspended	-0.28 U	1.2	0.36	0.59

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-111	SMPZ-111-GW033111	Te-125m	Total	-0.81	NA	0.99	NA
PZ-111	SMPZ-111-GW033111	Th-231	Filtered	0.099	0.017	0.017	0.005
PZ-111	SMPZ-111-GW033111	Th-231	Suspended	0.0027 U	0.0074	0.0027	0.0057
PZ-111	SMPZ-111-GW033111	Th-231	Total	0.102	NA	0.017	NA
PZ-111	SMPZ-111-GW033111	Th-234	Filtered	3.4 U	22	6.6	11
PZ-111	SMPZ-111-GW033111	Th-234	Suspended	2.3 U	7.4	2.6	3.6
PZ-111	SMPZ-111-GW033111	Th-234	Total	5.7	NA	7.1	NA
PZ-111	SMPZ-111-GW033111	Tl-208	Filtered	0.7	1.4	0.5	0.65
PZ-111	SMPZ-111-GW033111	Tl-208	Suspended	0.37	0.69	0.24	0.33
PZ-111	SMPZ-111-GW033111	Tl-208	Total	1.06	NA	0.55	NA
PZ-111	SMPZ-111-GW033111	Tm-171	Filtered	-10 U	330	97	160
PZ-111	SMPZ-111-GW033111	Tm-171	Suspended	11 U	86	26	42
PZ-111	SMPZ-111-GW033111	Tm-171	Total	1	NA	100	NA
PZ-111	SMPZ-111-GW033111	U-233/234	Filtered	2.3	0.02	0.12	0.007
PZ-111	SMPZ-111-GW033111	U-233/234	Suspended	0.065	0.015	0.013	0.005
PZ-111	SMPZ-111-GW033111	U-233/234	Total	2.36	NA	0.12	NA
PZ-111	SMPZ-111-GW033111	U-235/236	Filtered	0.099	0.017	0.017	0.005
PZ-111	SMPZ-111-GW033111	U-235/236	Suspended	0.0027 U	0.0074	0.0027	0.0057
PZ-111	SMPZ-111-GW033111	U-235/236	Total	0.102	NA	0.017	NA
PZ-111	SMPZ-111-GW033111	U-238	Filtered	1.94	0.005	0.1	0.004
PZ-111	SMPZ-111-GW033111	U-238	Suspended	0.042	0.021	0.012	0.008
PZ-111	SMPZ-111-GW033111	U-238	Total	1.98	NA	0.1	NA
PZ-112	SMPZ-112-GW031811	Ac-227	Filtered	-3.8 U	8.7	2.6	4.2
PZ-112	SMPZ-112-GW031811	Ac-227	Suspended	-1 U	4.2	1.3	2
PZ-112	SMPZ-112-GW031811	Ac-227	Total	-4.8	NA	2.9	NA
PZ-112	SMPZ-112-GW031811	Ac-228	Filtered	3.3	3.3	1.1	1.5
PZ-112	SMPZ-112-GW031811	Ac-228	Suspended	2.18	2.3	0.73	1.1
PZ-112	SMPZ-112-GW031811	Ac-228	Total	5.5	NA	1.3	NA
PZ-112	SMPZ-112-GW031811	Ag-108	Filtered	-0.012 U	0.092	0.027	0.044
PZ-112	SMPZ-112-GW031811	Ag-108	Suspended	0.004 U	0.046	0.013	0.022
PZ-112	SMPZ-112-GW031811	Ag-108	Total	-0.008	NA	0.03	NA
PZ-112	SMPZ-112-GW031811	Ag-108m	Filtered	-0.13 U	0.99	0.29	0.48
PZ-112	SMPZ-112-GW031811	Ag-108m	Suspended	0.05 U	0.49	0.14	0.23
PZ-112	SMPZ-112-GW031811	Ag-108m	Total	-0.09	NA	0.33	NA
PZ-112	SMPZ-112-GW031811	Ba-133	Filtered	0 U	13	3.7	6.1
PZ-112	SMPZ-112-GW031811	Ba-133	Suspended	0.5 U	6.1	1.8	3
PZ-112	SMPZ-112-GW031811	Ba-133	Total	0.5	NA	4.1	NA
PZ-112	SMPZ-112-GW031811	Ba-137m	Filtered	-0.23 U	1	0.31	0.49

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW031811	Ba-137m	Suspended	0.16 U	0.69	0.2	0.33
PZ-112	SMPZ-112-GW031811	Ba-137m	Total	-0.06	NA	0.37	NA
PZ-112	SMPZ-112-GW031811	Bi-212	Filtered	-3 U	9.4	5.6	4.5
PZ-112	SMPZ-112-GW031811	Bi-212	Suspended	-3.4 U	5.4	7.4	2.6
PZ-112	SMPZ-112-GW031811	Bi-212	Total	-6.4	NA	9.3	NA
PZ-112	SMPZ-112-GW031811	Bi-214	Filtered	1.67	2.5	0.75	1.2
PZ-112	SMPZ-112-GW031811	Bi-214	Suspended	1.71	1.9	0.83	0.93
PZ-112	SMPZ-112-GW031811	Bi-214	Total	3.4	NA	1.1	NA
PZ-112	SMPZ-112-GW031811	Cd-113m	Filtered	4400 U	12000	3700	5900
PZ-112	SMPZ-112-GW031811	Cd-113m	Suspended	400 U	6800	2000	3300
PZ-112	SMPZ-112-GW031811	Cd-113m	Total	4800	NA	4200	NA
PZ-112	SMPZ-112-GW031811	Cf-249	Filtered	-1 U	5.6	1.7	2.7
PZ-112	SMPZ-112-GW031811	Cf-249	Suspended	1.25 U	3	0.9	1.4
PZ-112	SMPZ-112-GW031811	Cf-249	Total	0.2	NA	1.9	NA
PZ-112	SMPZ-112-GW031811	Co-60	Filtered	0.17 U	1.1	0.31	0.49
PZ-112	SMPZ-112-GW031811	Co-60	Suspended	0.18 U	0.76	0.22	0.35
PZ-112	SMPZ-112-GW031811	Co-60	Total	0.35	NA	0.38	NA
PZ-112	SMPZ-112-GW031811	Cs-134	Filtered	0.31 U	0.87	0.26	0.41
PZ-112	SMPZ-112-GW031811	Cs-134	Suspended	-0.22 U	0.8	0.24	0.38
PZ-112	SMPZ-112-GW031811	Cs-134	Total	0.09	NA	0.35	NA
PZ-112	SMPZ-112-GW031811	Cs-137	Filtered	-0.24 U	1.1	0.32	0.52
PZ-112	SMPZ-112-GW031811	Cs-137	Suspended	0.17 U	0.72	0.21	0.34
PZ-112	SMPZ-112-GW031811	Cs-137	Total	-0.07	NA	0.39	NA
PZ-112	SMPZ-112-GW031811	Eu-152	Filtered	-0.63 U	2.9	0.87	1.4
PZ-112	SMPZ-112-GW031811	Eu-152	Suspended	0.48 U	1.8	0.53	0.86
PZ-112	SMPZ-112-GW031811	Eu-152	Total	-0.1	NA	1	NA
PZ-112	SMPZ-112-GW031811	Eu-154	Filtered	-2.6 U	9.9	2.9	4.7
PZ-112	SMPZ-112-GW031811	Eu-154	Suspended	-0.02 U	6.2	1.8	2.9
PZ-112	SMPZ-112-GW031811	Eu-154	Total	-2.7	NA	3.4	NA
PZ-112	SMPZ-112-GW031811	Eu-155	Filtered	-0.0002 U	3	0.88	1.4
PZ-112	SMPZ-112-GW031811	Eu-155	Suspended	-0.02 U	1.3	0.4	0.66
PZ-112	SMPZ-112-GW031811	Eu-155	Total	-0.02	NA	0.96	NA
PZ-112	SMPZ-112-GW031811	gross_alpha	Filtered	0.58 L	0.5	0.19	0.26
PZ-112	SMPZ-112-GW031811	gross_alpha	Suspended	0.63	0.4	0.17	0.2
PZ-112	SMPZ-112-GW031811	gross_alpha	Total	1.21	NA	0.26	NA
PZ-112	SMPZ-112-GW031811	gross_beta	Filtered	1.2 U	2.4	0.74	1.4
PZ-112	SMPZ-112-GW031811	gross_beta	Suspended	1	0.99	0.33	0.58
PZ-112	SMPZ-112-GW031811	gross_beta	Total	2.2	NA	0.82	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW031811	H-3	Total	82	160	50	79
PZ-112	SMPZ-112-GW031811	Ho-166m	Filtered	-0.38 U	1.9	0.57	0.92
PZ-112	SMPZ-112-GW031811	Ho-166m	Suspended	0.5	1	0.31	0.49
PZ-112	SMPZ-112-GW031811	Ho-166m	Total	0.13	NA	0.65	NA
PZ-112	SMPZ-112-GW031811	K-40	Filtered	14.8	18	5.9	8.5
PZ-112	SMPZ-112-GW031811	K-40	Suspended	2.1 U	9.3	2.4	4.4
PZ-112	SMPZ-112-GW031811	K-40	Total	16.9	NA	6.3	NA
PZ-112	SMPZ-112-GW031811	Na-22	Filtered	0 U	2.2	0.63	1
PZ-112	SMPZ-112-GW031811	Na-22	Suspended	0 U	1.2	0.35	0.57
PZ-112	SMPZ-112-GW031811	Na-22	Total	0	NA	0.72	NA
PZ-112	SMPZ-112-GW031811	Nb-94	Filtered	0.14 U	1.1	0.32	0.53
PZ-112	SMPZ-112-GW031811	Nb-94	Suspended	-0.16 U	0.69	0.21	0.33
PZ-112	SMPZ-112-GW031811	Nb-94	Total	-0.02	NA	0.38	NA
PZ-112	SMPZ-112-GW031811	Np-236	Filtered	-0.07 U	2.7	0.81	1.3
PZ-112	SMPZ-112-GW031811	Np-236	Suspended	-0.37 U	1.3	0.38	0.61
PZ-112	SMPZ-112-GW031811	Np-236	Total	-0.45	NA	0.9	NA
PZ-112	SMPZ-112-GW031811	Np-239	Filtered	-0.3 U	7.8	2.3	3.8
PZ-112	SMPZ-112-GW031811	Np-239	Suspended	0.6 U	3.8	1.1	1.9
PZ-112	SMPZ-112-GW031811	Np-239	Total	0.3	NA	2.6	NA
PZ-112	SMPZ-112-GW031811	Pa-231	Filtered	13 U	49	15	24
PZ-112	SMPZ-112-GW031811	Pa-231	Suspended	0.9 U	27	7.8	13
PZ-112	SMPZ-112-GW031811	Pa-231	Total	14	NA	17	NA
PZ-112	SMPZ-112-GW031811	Pb-212	Filtered	-0.1 U	2.5	0.94	1.2
PZ-112	SMPZ-112-GW031811	Pb-212	Suspended	0.47 U	1.1	0.35	0.53
PZ-112	SMPZ-112-GW031811	Pb-212	Total	0.4	NA	1	NA
PZ-112	SMPZ-112-GW031811	Pb-214	Filtered	0.47 U	2.3	0.73	1.1
PZ-112	SMPZ-112-GW031811	Pb-214	Suspended	0.19 U	1.5	0.47	0.7
PZ-112	SMPZ-112-GW031811	Pb-214	Total	0.66	NA	0.86	NA
PZ-112	SMPZ-112-GW031811	Sb-125	Filtered	0.09 U	11	3.4	5.6
PZ-112	SMPZ-112-GW031811	Sb-125	Suspended	2 U	5.5	1.7	2.7
PZ-112	SMPZ-112-GW031811	Sb-125	Total	2.1	NA	3.8	NA
PZ-112	SMPZ-112-GW031811	Sn-126	Filtered	0.52 U	1.1	0.34	0.53
PZ-112	SMPZ-112-GW031811	Sn-126	Suspended	0.51	0.77	0.24	0.37
PZ-112	SMPZ-112-GW031811	Sn-126	Total	1.03	NA	0.41	NA
PZ-112	SMPZ-112-GW031811	Sr-90	Filtered	0.015 U	0.2	0.058	0.12
PZ-112	SMPZ-112-GW031811	Sr-90	Suspended	-0.04 U	0.17	0.045	0.1
PZ-112	SMPZ-112-GW031811	Sr-90	Total	-0.025	NA	0.073	NA
PZ-112	SMPZ-112-GW031811	Te-125m	Filtered	0.02 U	2.6	0.78	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-112	SMPZ-112-GW031811	Te-125m	Suspended	0.46 U	1.3	0.38	0.62
PZ-112	SMPZ-112-GW031811	Te-125m	Total	0.48	NA	0.87	NA
PZ-112	SMPZ-112-GW031811	Th-231	Filtered	0.0153	0.0069	0.0063	0.0053
PZ-112	SMPZ-112-GW031811	Th-231	Suspended	0.0044 U	0.0059	0.0031	0.0046
PZ-112	SMPZ-112-GW031811	Th-231	Total	0.0197	NA	0.007	NA
PZ-112	SMPZ-112-GW031811	Th-234	Filtered	-3.6 U	21	8.4	11
PZ-112	SMPZ-112-GW031811	Th-234	Suspended	-0.3 U	7.7	2.8	3.8
PZ-112	SMPZ-112-GW031811	Th-234	Total	-4	NA	8.8	NA
PZ-112	SMPZ-112-GW031811	Tl-208	Filtered	0.58 U	1.3	0.45	0.62
PZ-112	SMPZ-112-GW031811	Tl-208	Suspended	0.11 U	0.77	0.28	0.37
PZ-112	SMPZ-112-GW031811	Tl-208	Total	0.68	NA	0.53	NA
PZ-112	SMPZ-112-GW031811	Tm-171	Filtered	19 U	320	94	150
PZ-112	SMPZ-112-GW031811	Tm-171	Suspended	14 U	110	34	55
PZ-112	SMPZ-112-GW031811	Tm-171	Total	33	NA	99.9	NA
PZ-112	SMPZ-112-GW031811	U-233/234	Filtered	0.322	0.02	0.03	0.007
PZ-112	SMPZ-112-GW031811	U-233/234	Suspended	0.044	0.012	0.01	0.004
PZ-112	SMPZ-112-GW031811	U-233/234	Total	0.366	NA	0.031	NA
PZ-112	SMPZ-112-GW031811	U-235/236	Filtered	0.0153	0.0069	0.0063	0.0053
PZ-112	SMPZ-112-GW031811	U-235/236	Suspended	0.0044 U	0.0059	0.0031	0.0046
PZ-112	SMPZ-112-GW031811	U-235/236	Total	0.0197	NA	0.007	NA
PZ-112	SMPZ-112-GW031811	U-238	Filtered	0.294	0.014	0.028	0.004
PZ-112	SMPZ-112-GW031811	U-238	Suspended	-0.0029 U	0.015	0.004	0.0052
PZ-112	SMPZ-112-GW031811	U-238	Total	0.291	NA	0.028	NA
PZ-113	SMPZ-113-GW032911	Ac-227	Filtered	0.8 U	7.5	2.2	3.6
PZ-113	SMPZ-113-GW032911	Ac-227	Suspended	0.1 U	5.8	1.7	2.8
PZ-113	SMPZ-113-GW032911	Ac-227	Total	0.9	NA	2.8	NA
PZ-113	SMPZ-113-GW032911	Ac-228	Filtered	1 U	4	1.2	1.9
PZ-113	SMPZ-113-GW032911	Ac-228	Suspended	-0.27 U	2.8	0.95	1.4
PZ-113	SMPZ-113-GW032911	Ac-228	Total	0.8	NA	1.5	NA
PZ-113	SMPZ-113-GW032911	Ag-108	Filtered	-0.013 U R	0.091	0.027	0.043
PZ-113	SMPZ-113-GW032911	Ag-108	Suspended	0.0001 U R	0.051	0.015	0.024
PZ-113	SMPZ-113-GW032911	Ag-108	Total	-0.013 R	NA	0.03	NA
PZ-113	SMPZ-113-GW032911	Ag-108m	Filtered	-0.14 U R	0.98	0.29	0.46
PZ-113	SMPZ-113-GW032911	Ag-108m	Suspended	0.0007 U R	0.54	0.16	0.26
PZ-113	SMPZ-113-GW032911	Ag-108m	Total	-0.14 R	NA	0.33	NA
PZ-113	SMPZ-113-GW032911	Ba-133	Filtered	-2.8 U R	13	4	6.5
PZ-113	SMPZ-113-GW032911	Ba-133	Suspended	-0.4 U R	6.1	1.8	3
PZ-113	SMPZ-113-GW032911	Ba-133	Total	-3.2 R	NA	4.4	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-113	SMPZ-113-GW032911	Ba-137m	Filtered	0.02 U	1.2	0.34	0.56
PZ-113	SMPZ-113-GW032911	Ba-137m	Suspended	0 U	0.78	0.23	0.37
PZ-113	SMPZ-113-GW032911	Ba-137m	Total	0.02	NA	0.41	NA
PZ-113	SMPZ-113-GW032911	Bi-212	Filtered	3.6 U	9.8	2.9	4.6
PZ-113	SMPZ-113-GW032911	Bi-212	Suspended	1.6 U	5.2	1.5	2.4
PZ-113	SMPZ-113-GW032911	Bi-212	Total	5.1	NA	3.3	NA
PZ-113	SMPZ-113-GW032911	Bi-214	Filtered	3.9	2.7	1.1	1.3
PZ-113	SMPZ-113-GW032911	Bi-214	Suspended	1.75	1.7	0.74	0.85
PZ-113	SMPZ-113-GW032911	Bi-214	Total	5.7	NA	1.3	NA
PZ-113	SMPZ-113-GW032911	Cd-113m	Filtered	500 U	13000	3900	6300
PZ-113	SMPZ-113-GW032911	Cd-113m	Suspended	-2300 U	7600	2300	3700
PZ-113	SMPZ-113-GW032911	Cd-113m	Total	-1800	NA	4500	NA
PZ-113	SMPZ-113-GW032911	Cf-249	Filtered	0.5 U R	5.7	1.7	2.7
PZ-113	SMPZ-113-GW032911	Cf-249	Suspended	0.96 U R	3	0.89	1.4
PZ-113	SMPZ-113-GW032911	Cf-249	Total	1.4 R	NA	1.9	NA
PZ-113	SMPZ-113-GW032911	Co-60	Filtered	0.04 U	1.1	0.3	0.5
PZ-113	SMPZ-113-GW032911	Co-60	Suspended	0.04 U	0.71	0.2	0.33
PZ-113	SMPZ-113-GW032911	Co-60	Total	0.07	NA	0.36	NA
PZ-113	SMPZ-113-GW032911	Cs-134	Filtered	-0.01 U	1.3	0.37	0.62
PZ-113	SMPZ-113-GW032911	Cs-134	Suspended	0.2 U	0.8	0.24	0.38
PZ-113	SMPZ-113-GW032911	Cs-134	Total	0.18	NA	0.44	NA
PZ-113	SMPZ-113-GW032911	Cs-137	Filtered	0.02 U	1.3	0.36	0.6
PZ-113	SMPZ-113-GW032911	Cs-137	Suspended	0 U	0.82	0.24	0.39
PZ-113	SMPZ-113-GW032911	Cs-137	Total	0.02	NA	0.43	NA
PZ-113	SMPZ-113-GW032911	Eu-152	Filtered	-0.7 U	3.5	1	1.7
PZ-113	SMPZ-113-GW032911	Eu-152	Suspended	0.14 U	1.9	0.55	0.9
PZ-113	SMPZ-113-GW032911	Eu-152	Total	-0.5	NA	1.2	NA
PZ-113	SMPZ-113-GW032911	Eu-154	Filtered	-1.5 U	10	2.9	4.7
PZ-113	SMPZ-113-GW032911	Eu-154	Suspended	2.2	4.2	1.3	1.9
PZ-113	SMPZ-113-GW032911	Eu-154	Total	0.7	NA	3.2	NA
PZ-113	SMPZ-113-GW032911	Eu-155	Filtered	1.2 U	3.4	1	1.6
PZ-113	SMPZ-113-GW032911	Eu-155	Suspended	0.34 U	1.2	0.35	0.56
PZ-113	SMPZ-113-GW032911	Eu-155	Total	1.5	NA	1.1	NA
PZ-113	SMPZ-113-GW032911	gross_alpha	Filtered	3.06	0.49	0.35	0.26
PZ-113	SMPZ-113-GW032911	gross_alpha	Suspended	0.66	0.46	0.19	0.23
PZ-113	SMPZ-113-GW032911	gross_alpha	Total	3.72	NA	0.4	NA
PZ-113	SMPZ-113-GW032911	gross_beta	Filtered	4.41	1.1	0.52	0.62
PZ-113	SMPZ-113-GW032911	gross_beta	Suspended	11.6	1.1	0.78	0.63

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-113	SMPZ-113-GW032911	gross_beta	Total	16	NA	0.94	NA
PZ-113	SMPZ-113-GW032911	H-3	Total	-35 U	130	37	63
PZ-113	SMPZ-113-GW032911	Ho-166m	Filtered	0.17 U	1.6	0.44	0.72
PZ-113	SMPZ-113-GW032911	Ho-166m	Suspended	-0.07 U	1.1	0.31	0.51
PZ-113	SMPZ-113-GW032911	Ho-166m	Total	0.1	NA	0.54	NA
PZ-113	SMPZ-113-GW032911	K-40	Filtered	14.8	16	5.7	7.7
PZ-113	SMPZ-113-GW032911	K-40	Suspended	-3 U	11	3.6	5.1
PZ-113	SMPZ-113-GW032911	K-40	Total	11.8	NA	6.8	NA
PZ-113	SMPZ-113-GW032911	Na-22	Filtered	0.27 U	1.3	0.37	0.58
PZ-113	SMPZ-113-GW032911	Na-22	Suspended	-0.14 U	0.81	0.24	0.38
PZ-113	SMPZ-113-GW032911	Na-22	Total	0.13	NA	0.44	NA
PZ-113	SMPZ-113-GW032911	Nb-94	Filtered	0.03 U	1.2	0.33	0.54
PZ-113	SMPZ-113-GW032911	Nb-94	Suspended	0.08 U	0.64	0.19	0.31
PZ-113	SMPZ-113-GW032911	Nb-94	Total	0.11	NA	0.38	NA
PZ-113	SMPZ-113-GW032911	Np-236	Filtered	-0.18 U	2.7	0.79	1.3
PZ-113	SMPZ-113-GW032911	Np-236	Suspended	-0.24 U	1.3	0.38	0.61
PZ-113	SMPZ-113-GW032911	Np-236	Total	-0.43	NA	0.88	NA
PZ-113	SMPZ-113-GW032911	Np-239	Filtered	-1.1 U	8.2	2.4	4
PZ-113	SMPZ-113-GW032911	Np-239	Suspended	0.5 U	3.4	1	1.7
PZ-113	SMPZ-113-GW032911	Np-239	Total	-0.6	NA	2.6	NA
PZ-113	SMPZ-113-GW032911	Pa-231	Filtered	-8 U	55	16	27
PZ-113	SMPZ-113-GW032911	Pa-231	Suspended	8.1 U	26	7.8	13
PZ-113	SMPZ-113-GW032911	Pa-231	Total	-0.3	NA	18	NA
PZ-113	SMPZ-113-GW032911	Pb-212	Filtered	1.01 U	2.6	0.94	1.3
PZ-113	SMPZ-113-GW032911	Pb-212	Suspended	0.76	1.2	0.46	0.59
PZ-113	SMPZ-113-GW032911	Pb-212	Total	1.8	NA	1.1	NA
PZ-113	SMPZ-113-GW032911	Pb-214	Filtered	1.63	2.4	0.85	1.1
PZ-113	SMPZ-113-GW032911	Pb-214	Suspended	0.54 U	1.5	0.56	0.74
PZ-113	SMPZ-113-GW032911	Pb-214	Total	2.2	NA	1	NA
PZ-113	SMPZ-113-GW032911	Sb-125	Filtered	-0.2 U	13	3.9	6.4
PZ-113	SMPZ-113-GW032911	Sb-125	Suspended	0.7 U	5.2	1.5	2.5
PZ-113	SMPZ-113-GW032911	Sb-125	Total	0.5	NA	4.2	NA
PZ-113	SMPZ-113-GW032911	Sn-126	Filtered	-0.12 U	1.4	0.42	0.68
PZ-113	SMPZ-113-GW032911	Sn-126	Suspended	0.27 U	0.69	0.21	0.33
PZ-113	SMPZ-113-GW032911	Sn-126	Total	0.15	NA	0.47	NA
PZ-113	SMPZ-113-GW032911	Sr-90	Filtered	-0.025 U	0.2	0.059	0.11
PZ-113	SMPZ-113-GW032911	Sr-90	Suspended	0.011 U	0.065	0.019	0.037
PZ-113	SMPZ-113-GW032911	Sr-90	Total	-0.014	NA	0.062	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-113	SMPZ-113-GW032911	Te-125m	Filtered	-0.05 U	3.1	0.9	1.5
PZ-113	SMPZ-113-GW032911	Te-125m	Suspended	0.16 U	1.2	0.35	0.58
PZ-113	SMPZ-113-GW032911	Te-125m	Total	0.11	NA	0.97	NA
PZ-113	SMPZ-113-GW032911	Th-231	Filtered	0.089	0.007	0.016	0.006
PZ-113	SMPZ-113-GW032911	Th-231	Suspended	-0.002 U	0.017	0.002	0.0053
PZ-113	SMPZ-113-GW032911	Th-231	Total	0.087	NA	0.016	NA
PZ-113	SMPZ-113-GW032911	Th-234	Filtered	7.7 U	22	7.2	10
PZ-113	SMPZ-113-GW032911	Th-234	Suspended	-1.7 U	7	2.5	3.4
PZ-113	SMPZ-113-GW032911	Th-234	Total	6	NA	7.7	NA
PZ-113	SMPZ-113-GW032911	Tl-208	Filtered	-0.8 U	1.6	1.1	0.8
PZ-113	SMPZ-113-GW032911	Tl-208	Suspended	0.58	0.73	0.29	0.35
PZ-113	SMPZ-113-GW032911	Tl-208	Total	-0.2	NA	1.1	NA
PZ-113	SMPZ-113-GW032911	Tm-171	Filtered	-20 U	340	100	170
PZ-113	SMPZ-113-GW032911	Tm-171	Suspended	12 U	110	32	53
PZ-113	SMPZ-113-GW032911	Tm-171	Total	-7	NA	110	NA
PZ-113	SMPZ-113-GW032911	U-233/234	Filtered	1.85	0.019	0.099	0.007
PZ-113	SMPZ-113-GW032911	U-233/234	Suspended	0.096	0.006	0.015	0.004
PZ-113	SMPZ-113-GW032911	U-233/234	Total	1.95	NA	0.1	NA
PZ-113	SMPZ-113-GW032911	U-235/236	Filtered	0.089	0.007	0.016	0.006
PZ-113	SMPZ-113-GW032911	U-235/236	Suspended	-0.002 U	0.017	0.002	0.0053
PZ-113	SMPZ-113-GW032911	U-235/236	Total	0.087	NA	0.016	NA
PZ-113	SMPZ-113-GW032911	U-238	Filtered	1.08	0.019	0.066	0.007
PZ-113	SMPZ-113-GW032911	U-238	Suspended	0.093	0.017	0.015	0.006
PZ-113	SMPZ-113-GW032911	U-238	Total	1.17	NA	0.067	NA
PZ-114	SMPZ-114-GW032811	Ac-227	Filtered	-9.7 U	16	4.9	7.8
PZ-114	SMPZ-114-GW032811	Ac-227	Suspended	-10 R U	8.8	2.7	4.3
PZ-114	SMPZ-114-GW032811	Ac-227	Total	-19.7 R	NA	5.6	NA
PZ-114	SMPZ-114-GW032811	Ac-228	Filtered	2.3 U	8	2.4	3.8
PZ-114	SMPZ-114-GW032811	Ac-228	Suspended	5.1	5.4	2.4	2.6
PZ-114	SMPZ-114-GW032811	Ac-228	Total	7.4	NA	3.4	NA
PZ-114	SMPZ-114-GW032811	Ag-108	Filtered	-0.044 U	0.18	0.053	0.085
PZ-114	SMPZ-114-GW032811	Ag-108	Suspended	0.009 U	0.099	0.029	0.048
PZ-114	SMPZ-114-GW032811	Ag-108	Total	-0.035	NA	0.06	NA
PZ-114	SMPZ-114-GW032811	Ag-108m	Filtered	-0.47 U	1.9	0.57	0.92
PZ-114	SMPZ-114-GW032811	Ag-108m	Suspended	0.1 U	1.1	0.32	0.52
PZ-114	SMPZ-114-GW032811	Ag-108m	Total	-0.37	NA	0.65	NA
PZ-114	SMPZ-114-GW032811	Ba-133	Filtered	-1.2 U	23	6.7	11
PZ-114	SMPZ-114-GW032811	Ba-133	Suspended	-2.3 U	11	3.4	5.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-114	SMPZ-114-GW032811	Ba-133	Total	-3.5	NA	7.5	NA
PZ-114	SMPZ-114-GW032811	Ba-137m	Filtered	-0.62 U	2.2	0.66	1.1
PZ-114	SMPZ-114-GW032811	Ba-137m	Suspended	-0.13 U	1	0.3	0.48
PZ-114	SMPZ-114-GW032811	Ba-137m	Total	-0.75	NA	0.72	NA
PZ-114	SMPZ-114-GW032811	Bi-212	Filtered	9.4	17	5.1	8.1
PZ-114	SMPZ-114-GW032811	Bi-212	Suspended	5.6	10	3.2	5.1
PZ-114	SMPZ-114-GW032811	Bi-212	Total	15	NA	6.1	NA
PZ-114	SMPZ-114-GW032811	Bi-214	Filtered	3.9	4.9	1.9	2.4
PZ-114	SMPZ-114-GW032811	Bi-214	Suspended	3.7	2.9	1.2	1.4
PZ-114	SMPZ-114-GW032811	Bi-214	Total	7.7	NA	2.2	NA
PZ-114	SMPZ-114-GW032811	Cd-113m	Filtered	700 U	22000	6400	11000
PZ-114	SMPZ-114-GW032811	Cd-113m	Suspended	1500 U	11000	3200	5300
PZ-114	SMPZ-114-GW032811	Cd-113m	Total	2200	NA	7200	NA
PZ-114	SMPZ-114-GW032811	Cf-249	Filtered	0 U	11	3.3	5.4
PZ-114	SMPZ-114-GW032811	Cf-249	Suspended	-0.8 U	5	1.5	2.5
PZ-114	SMPZ-114-GW032811	Cf-249	Total	-0.8	NA	3.6	NA
PZ-114	SMPZ-114-GW032811	Co-60	Filtered	-0.55 U	2.4	0.7	1.1
PZ-114	SMPZ-114-GW032811	Co-60	Suspended	0.42 U	1.3	0.39	0.62
PZ-114	SMPZ-114-GW032811	Co-60	Total	-0.13	NA	0.8	NA
PZ-114	SMPZ-114-GW032811	Cs-134	Filtered	0.04 U	2.4	0.71	1.2
PZ-114	SMPZ-114-GW032811	Cs-134	Suspended	0.29 U	1.4	0.41	0.67
PZ-114	SMPZ-114-GW032811	Cs-134	Total	0.33	NA	0.82	NA
PZ-114	SMPZ-114-GW032811	Cs-137	Filtered	-0.65 U	2.3	0.7	1.1
PZ-114	SMPZ-114-GW032811	Cs-137	Suspended	-0.14 U	1.1	0.31	0.51
PZ-114	SMPZ-114-GW032811	Cs-137	Total	-0.79	NA	0.76	NA
PZ-114	SMPZ-114-GW032811	Eu-152	Filtered	0.5 U	6.1	1.8	3
PZ-114	SMPZ-114-GW032811	Eu-152	Suspended	-0.77 U	3.1	0.93	1.5
PZ-114	SMPZ-114-GW032811	Eu-152	Total	-0.2	NA	2	NA
PZ-114	SMPZ-114-GW032811	Eu-154	Filtered	-5 U	20	5.9	9.5
PZ-114	SMPZ-114-GW032811	Eu-154	Suspended	-1.8 U	12	3.4	5.6
PZ-114	SMPZ-114-GW032811	Eu-154	Total	-6.8	NA	6.8	NA
PZ-114	SMPZ-114-GW032811	Eu-155	Filtered	1.4 U	5.3	1.6	2.6
PZ-114	SMPZ-114-GW032811	Eu-155	Suspended	0.67 U	2.5	0.75	1.2
PZ-114	SMPZ-114-GW032811	Eu-155	Total	2	NA	1.8	NA
PZ-114	SMPZ-114-GW032811	H-3	Total	9 U	160	47	77
PZ-114	SMPZ-114-GW032811	Ho-166m	Filtered	-0.6 U	3.6	1.1	1.7
PZ-114	SMPZ-114-GW032811	Ho-166m	Suspended	-0.19 U	1.9	0.55	0.89
PZ-114	SMPZ-114-GW032811	Ho-166m	Total	-0.8	NA	1.2	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-114	SMPZ-114-GW032811	K-40	Filtered	8.4 U	29	9.3	14
PZ-114	SMPZ-114-GW032811	K-40	Suspended	34.2	22	7.8	11
PZ-114	SMPZ-114-GW032811	K-40	Total	43	NA	12	NA
PZ-114	SMPZ-114-GW032811	Na-22	Filtered	-0.02 U	2.1	0.61	1
PZ-114	SMPZ-114-GW032811	Na-22	Suspended	0.69	1.1	0.33	0.5
PZ-114	SMPZ-114-GW032811	Na-22	Total	0.66	NA	0.69	NA
PZ-114	SMPZ-114-GW032811	Nb-94	Filtered	-0.01 U	2.2	0.66	1.1
PZ-114	SMPZ-114-GW032811	Nb-94	Suspended	-0.35 U	1.3	0.39	0.64
PZ-114	SMPZ-114-GW032811	Nb-94	Total	-0.36	NA	0.77	NA
PZ-114	SMPZ-114-GW032811	Np-236	Filtered	-0.1 U	5.3	1.6	2.6
PZ-114	SMPZ-114-GW032811	Np-236	Suspended	-0.1 U	2.2	0.67	1.1
PZ-114	SMPZ-114-GW032811	Np-236	Total	-0.2	NA	1.7	NA
PZ-114	SMPZ-114-GW032811	Np-239	Filtered	2 U	14	4.1	6.7
PZ-114	SMPZ-114-GW032811	Np-239	Suspended	-0.07 U	7	2.1	3.4
PZ-114	SMPZ-114-GW032811	Np-239	Total	2	NA	4.6	NA
PZ-114	SMPZ-114-GW032811	Pa-231	Filtered	34 U	98	30	48
PZ-114	SMPZ-114-GW032811	Pa-231	Suspended	5 U	47	14	23
PZ-114	SMPZ-114-GW032811	Pa-231	Total	39	NA	33	NA
PZ-114	SMPZ-114-GW032811	Pb-212	Filtered	1.6 U	4.5	1.6	2.2
PZ-114	SMPZ-114-GW032811	Pb-212	Suspended	2.7	2.1	0.8	1
PZ-114	SMPZ-114-GW032811	Pb-212	Total	4.3	NA	1.8	NA
PZ-114	SMPZ-114-GW032811	Pb-214	Filtered	0.1 U	5.2	1.4	2.5
PZ-114	SMPZ-114-GW032811	Pb-214	Suspended	2.29	2.4	0.94	1.2
PZ-114	SMPZ-114-GW032811	Pb-214	Total	2.4	NA	1.7	NA
PZ-114	SMPZ-114-GW032811	Sb-125	Filtered	-7.6 U	24	7.1	12
PZ-114	SMPZ-114-GW032811	Sb-125	Suspended	-0.2 U	10	3.1	5
PZ-114	SMPZ-114-GW032811	Sb-125	Total	-7.8	NA	7.8	NA
PZ-114	SMPZ-114-GW032811	Sn-126	Filtered	-0.7 U	2.5	0.75	1.2
PZ-114	SMPZ-114-GW032811	Sn-126	Suspended	0.53 U	1.4	0.42	0.68
PZ-114	SMPZ-114-GW032811	Sn-126	Total	-0.17	NA	0.86	NA
PZ-114	SMPZ-114-GW032811	Te-125m	Filtered	-1.8 U	5.4	1.6	2.7
PZ-114	SMPZ-114-GW032811	Te-125m	Suspended	-0.05 U	2.4	0.71	1.2
PZ-114	SMPZ-114-GW032811	Te-125m	Total	-1.8	NA	1.8	NA
PZ-114	SMPZ-114-GW032811	Th-234	Filtered	16 U	35	11	17
PZ-114	SMPZ-114-GW032811	Th-234	Suspended	2.9 U	16	5	7.8
PZ-114	SMPZ-114-GW032811	Th-234	Total	19	NA	12	NA
PZ-114	SMPZ-114-GW032811	Tl-208	Filtered	1.75	2.5	0.92	1.2
PZ-114	SMPZ-114-GW032811	Tl-208	Suspended	0.63 U	1.5	0.59	0.74

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-114	SMPZ-114-GW032811	Tl-208	Total	2.4	NA	1.1	NA
PZ-114	SMPZ-114-GW032811	Tm-171	Filtered	650	490	190	240
PZ-114	SMPZ-114-GW032811	Tm-171	Suspended	17 U	220	65	110
PZ-114	SMPZ-114-GW032811	Tm-171	Total	670	NA	200	NA
PZ-116	SMPZ-116-GW032911	Ac-227	Filtered	0 U	11	3.3	5.4
PZ-116	SMPZ-116-GW032911	Ac-227	Suspended	-3.5 L U	5.3	1.6	2.6
PZ-116	SMPZ-116-GW032911	Ac-227	Total	-3.5	NA	3.7	NA
PZ-116	SMPZ-116-GW032911	Ac-228	Filtered	3.6	3.5	1.1	1.6
PZ-116	SMPZ-116-GW032911	Ac-228	Suspended	0.47 U	2.4	0.7	1.1
PZ-116	SMPZ-116-GW032911	Ac-228	Total	4.1	NA	1.3	NA
PZ-116	SMPZ-116-GW032911	Ag-108	Filtered	0.012 U R	0.075	0.022	0.036
PZ-116	SMPZ-116-GW032911	Ag-108	Suspended	0.002 U R	0.053	0.015	0.025
PZ-116	SMPZ-116-GW032911	Ag-108	Total	0.014 R	NA	0.027	NA
PZ-116	SMPZ-116-GW032911	Ag-108m	Filtered	0.13 U R	0.8	0.24	0.38
PZ-116	SMPZ-116-GW032911	Ag-108m	Suspended	0.02 U R	0.57	0.17	0.27
PZ-116	SMPZ-116-GW032911	Ag-108m	Total	0.15 R	NA	0.29	NA
PZ-116	SMPZ-116-GW032911	Ba-133	Filtered	-0.5 U R	12	3.4	5.6
PZ-116	SMPZ-116-GW032911	Ba-133	Suspended	-0.07 U R	6.4	1.9	3.1
PZ-116	SMPZ-116-GW032911	Ba-133	Total	-0.6 R	NA	3.9	NA
PZ-116	SMPZ-116-GW032911	Ba-137m	Filtered	0.15 U	1	0.31	0.5
PZ-116	SMPZ-116-GW032911	Ba-137m	Suspended	0.03 U	0.82	0.24	0.39
PZ-116	SMPZ-116-GW032911	Ba-137m	Total	0.18	NA	0.39	NA
PZ-116	SMPZ-116-GW032911	Bi-212	Filtered	-4 U	10	86	5
PZ-116	SMPZ-116-GW032911	Bi-212	Suspended	2.5	5.1	1.6	2.4
PZ-116	SMPZ-116-GW032911	Bi-212	Total	-2	NA	86	NA
PZ-116	SMPZ-116-GW032911	Bi-214	Filtered	1.5	2.8	1.1	1.3
PZ-116	SMPZ-116-GW032911	Bi-214	Suspended	0.67 U	1.5	0.46	0.73
PZ-116	SMPZ-116-GW032911	Bi-214	Total	2.2	NA	1.2	NA
PZ-116	SMPZ-116-GW032911	Cd-113m	Filtered	2000 U	13000	3800	6100
PZ-116	SMPZ-116-GW032911	Cd-113m	Suspended	2000 U	7300	2200	3500
PZ-116	SMPZ-116-GW032911	Cd-113m	Total	3900	NA	4300	NA
PZ-116	SMPZ-116-GW032911	Cf-249	Filtered	0.06 U R	4.5	1.3	2.2
PZ-116	SMPZ-116-GW032911	Cf-249	Suspended	0.08 U R	2.6	0.75	1.2
PZ-116	SMPZ-116-GW032911	Cf-249	Total	0.1 R	NA	1.5	NA
PZ-116	SMPZ-116-GW032911	Co-60	Filtered	-0.06 U	1.1	0.32	0.52
PZ-116	SMPZ-116-GW032911	Co-60	Suspended	0 U	0.79	0.22	0.36
PZ-116	SMPZ-116-GW032911	Co-60	Total	-0.06	NA	0.38	NA
PZ-116	SMPZ-116-GW032911	Cs-134	Filtered	-0.39 U	1.3	0.39	0.63

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-116	SMPZ-116-GW032911	Cs-134	Suspended	-0.13 U	0.73	0.22	0.35
PZ-116	SMPZ-116-GW032911	Cs-134	Total	-0.52	NA	0.45	NA
PZ-116	SMPZ-116-GW032911	Cs-137	Filtered	0.16 U	1.1	0.32	0.52
PZ-116	SMPZ-116-GW032911	Cs-137	Suspended	0.03 U	0.87	0.25	0.41
PZ-116	SMPZ-116-GW032911	Cs-137	Total	0.19	NA	0.41	NA
PZ-116	SMPZ-116-GW032911	Eu-152	Filtered	1.01 U	2.9	0.87	1.4
PZ-116	SMPZ-116-GW032911	Eu-152	Suspended	0.15 U	1.8	0.53	0.86
PZ-116	SMPZ-116-GW032911	Eu-152	Total	1.2	NA	1	NA
PZ-116	SMPZ-116-GW032911	Eu-154	Filtered	-1.6 U	9.7	2.8	4.6
PZ-116	SMPZ-116-GW032911	Eu-154	Suspended	3.1	5.6	1.7	2.6
PZ-116	SMPZ-116-GW032911	Eu-154	Total	1.5	NA	3.3	NA
PZ-116	SMPZ-116-GW032911	Eu-155	Filtered	0.4 U	2.9	0.85	1.4
PZ-116	SMPZ-116-GW032911	Eu-155	Suspended	-0.52 U	1.4	0.44	0.7
PZ-116	SMPZ-116-GW032911	Eu-155	Total	-0.13	NA	0.95	NA
PZ-116	SMPZ-116-GW032911	gross_alpha	Filtered	11.7	0.57	0.77	0.31
PZ-116	SMPZ-116-GW032911	gross_alpha	Suspended	0.66	0.52	0.2	0.28
PZ-116	SMPZ-116-GW032911	gross_alpha	Total	12.3	NA	0.8	NA
PZ-116	SMPZ-116-GW032911	gross_beta	Filtered	4.2	6.5	2.2	3.7
PZ-116	SMPZ-116-GW032911	gross_beta	Suspended	6.87	0.95	0.54	0.57
PZ-116	SMPZ-116-GW032911	gross_beta	Total	11.1	NA	2.3	NA
PZ-116	SMPZ-116-GW032911	H-3	Total	119	180	54	86
PZ-116	SMPZ-116-GW032911	Ho-166m	Filtered	0.63 U	1.7	0.5	0.78
PZ-116	SMPZ-116-GW032911	Ho-166m	Suspended	-0.29 U	1.3	0.39	0.62
PZ-116	SMPZ-116-GW032911	Ho-166m	Total	0.34	NA	0.63	NA
PZ-116	SMPZ-116-GW032911	K-40	Filtered	14.3	15	5	7.1
PZ-116	SMPZ-116-GW032911	K-40	Suspended	-2.7 U	12	4.2	5.7
PZ-116	SMPZ-116-GW032911	K-40	Total	11.7	NA	6.5	NA
PZ-116	SMPZ-116-GW032911	Na-22	Filtered	0.07 U	1.2	0.33	0.54
PZ-116	SMPZ-116-GW032911	Na-22	Suspended	0.02 U	0.8	0.22	0.37
PZ-116	SMPZ-116-GW032911	Na-22	Total	0.09	NA	0.4	NA
PZ-116	SMPZ-116-GW032911	Nb-94	Filtered	-0.14 U	1.1	0.33	0.54
PZ-116	SMPZ-116-GW032911	Nb-94	Suspended	0.09 U	0.74	0.21	0.35
PZ-116	SMPZ-116-GW032911	Nb-94	Total	-0.05	NA	0.39	NA
PZ-116	SMPZ-116-GW032911	Np-236	Filtered	-0.006 U	2.6	0.76	1.3
PZ-116	SMPZ-116-GW032911	Np-236	Suspended	-0.1 U	1.3	0.4	0.65
PZ-116	SMPZ-116-GW032911	Np-236	Total	-0.1	NA	0.86	NA
PZ-116	SMPZ-116-GW032911	Np-239	Filtered	-1.6 U	7.3	2.2	3.5
PZ-116	SMPZ-116-GW032911	Np-239	Suspended	1.1 U	3.7	1.1	1.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-116	SMPZ-116-GW032911	Np-239	Total	-0.5	NA	2.4	NA
PZ-116	SMPZ-116-GW032911	Pa-231	Filtered	18 U	47	14	23
PZ-116	SMPZ-116-GW032911	Pa-231	Suspended	-6.2 U	26	7.7	12
PZ-116	SMPZ-116-GW032911	Pa-231	Total	12	NA	16	NA
PZ-116	SMPZ-116-GW032911	Pb-212	Filtered	0.79 U	2.3	0.68	1.1
PZ-116	SMPZ-116-GW032911	Pb-212	Suspended	0.65	1.3	0.46	0.62
PZ-116	SMPZ-116-GW032911	Pb-212	Total	1.44	NA	0.82	NA
PZ-116	SMPZ-116-GW032911	Pb-214	Filtered	0.54 U	2.7	0.76	1.3
PZ-116	SMPZ-116-GW032911	Pb-214	Suspended	0.36 U	1.5	0.54	0.72
PZ-116	SMPZ-116-GW032911	Pb-214	Total	0.9	NA	0.94	NA
PZ-116	SMPZ-116-GW032911	Sb-125	Filtered	-0.1 U	8.7	2.5	4.2
PZ-116	SMPZ-116-GW032911	Sb-125	Suspended	-0.004 U	6.2	1.8	3
PZ-116	SMPZ-116-GW032911	Sb-125	Total	-0.1	NA	3.1	NA
PZ-116	SMPZ-116-GW032911	Sn-126	Filtered	0.26 U	0.87	0.26	0.4
PZ-116	SMPZ-116-GW032911	Sn-126	Suspended	0.34 U	0.82	0.25	0.39
PZ-116	SMPZ-116-GW032911	Sn-126	Total	0.6	NA	0.36	NA
PZ-116	SMPZ-116-GW032911	Sr-90	Filtered	0.077	0.12	0.038	0.066
PZ-116	SMPZ-116-GW032911	Sr-90	Suspended	0.028 U	0.062	0.019	0.035
PZ-116	SMPZ-116-GW032911	Sr-90	Total	0.105	NA	0.042	NA
PZ-116	SMPZ-116-GW032911	Te-125m	Filtered	-0.03 U	2	0.59	0.97
PZ-116	SMPZ-116-GW032911	Te-125m	Suspended	-0.0008 U	1.4	0.42	0.7
PZ-116	SMPZ-116-GW032911	Te-125m	Total	-0.03	NA	0.72	NA
PZ-116	SMPZ-116-GW032911	Th-231	Filtered	1.12	0.009	0.077	0.008
PZ-116	SMPZ-116-GW032911	Th-231	Suspended	0.0024 U	0.0064	0.0024	0.0049
PZ-116	SMPZ-116-GW032911	Th-231	Total	1.13	NA	0.077	NA
PZ-116	SMPZ-116-GW032911	Th-234	Filtered	14.5	22	3.9	11
PZ-116	SMPZ-116-GW032911	Th-234	Suspended	2.8 U	8.4	2.8	4.1
PZ-116	SMPZ-116-GW032911	Th-234	Total	17.3	NA	4.8	NA
PZ-116	SMPZ-116-GW032911	Tl-208	Filtered	0.47 U	1.3	0.45	0.64
PZ-116	SMPZ-116-GW032911	Tl-208	Suspended	0.64	0.78	0.28	0.37
PZ-116	SMPZ-116-GW032911	Tl-208	Total	1.11	NA	0.53	NA
PZ-116	SMPZ-116-GW032911	Tm-171	Filtered	-30 U	350	100	170
PZ-116	SMPZ-116-GW032911	Tm-171	Suspended	14 U	140	41	67
PZ-116	SMPZ-116-GW032911	Tm-171	Total	-20	NA	110	NA
PZ-116	SMPZ-116-GW032911	U-233/234	Filtered	23.9	0.02	1	0.006
PZ-116	SMPZ-116-GW032911	U-233/234	Suspended	0.0247	0.016	0.0089	0.0056
PZ-116	SMPZ-116-GW032911	U-233/234	Total	24	NA	1	NA
PZ-116	SMPZ-116-GW032911	U-235/236	Filtered	1.12	0.009	0.077	0.008

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-116	SMPZ-116-GW032911	U-235/236	Suspended	0.0024 U	0.0064	0.0024	0.0049
PZ-116	SMPZ-116-GW032911	U-235/236	Total	1.13	NA	0.077	NA
PZ-116	SMPZ-116-GW032911	U-238	Filtered	22.9	0.03	0.99	0.01
PZ-116	SMPZ-116-GW032911	U-238	Suspended	0.0212	0.013	0.0078	0.004
PZ-116	SMPZ-116-GW032911	U-238	Total	22.9	NA	0.99	NA
PZ-120	SMPZ-120-GW031711	Ac-227	Filtered	-2 U	8.4	2.5	4.1
PZ-120	SMPZ-120-GW031711	Ac-227	Suspended	-2.5 U	4.4	1.3	2.1
PZ-120	SMPZ-120-GW031711	Ac-227	Total	-4.6	NA	2.8	NA
PZ-120	SMPZ-120-GW031711	Ac-228	Filtered	3.4	3.8	1.2	1.8
PZ-120	SMPZ-120-GW031711	Ac-228	Suspended	1.5	2.3	0.72	1.1
PZ-120	SMPZ-120-GW031711	Ac-228	Total	4.9	NA	1.4	NA
PZ-120	SMPZ-120-GW031711	Ag-108	Filtered	0.017 R	0.084	0.025	0.04
PZ-120	SMPZ-120-GW031711	Ag-108	Suspended	0.004 R	0.05	0.015	0.024
PZ-120	SMPZ-120-GW031711	Ag-108	Total	0.021 R	NA	0.029	NA
PZ-120	SMPZ-120-GW031711	Ag-108m	Filtered	0.18 R	0.9	0.27	0.43
PZ-120	SMPZ-120-GW031711	Ag-108m	Suspended	0.04 R	0.54	0.16	0.26
PZ-120	SMPZ-120-GW031711	Ag-108m	Total	0.23 R	NA	0.31	NA
PZ-120	SMPZ-120-GW031711	Ba-133	Filtered	-0.04 R	10	3.1	5
PZ-120	SMPZ-120-GW031711	Ba-133	Suspended	1.7 R	5.9	1.8	2.9
PZ-120	SMPZ-120-GW031711	Ba-133	Total	1.7 R	NA	3.5	NA
PZ-120	SMPZ-120-GW031711	Ba-137m	Filtered	0.19 U	1	0.3	0.48
PZ-120	SMPZ-120-GW031711	Ba-137m	Suspended	0.23 U	0.55	0.17	0.26
PZ-120	SMPZ-120-GW031711	Ba-137m	Total	0.43	NA	0.34	NA
PZ-120	SMPZ-120-GW031711	Bi-212	Filtered	-4 U	9.6	8.3	4.6
PZ-120	SMPZ-120-GW031711	Bi-212	Suspended	-0.2 U	5.3	1.7	2.5
PZ-120	SMPZ-120-GW031711	Bi-212	Total	-4.2	NA	8.5	NA
PZ-120	SMPZ-120-GW031711	Bi-214	Filtered	1.1 U	2.8	1.1	1.4
PZ-120	SMPZ-120-GW031711	Bi-214	Suspended	0.36 U	1.7	0.58	0.8
PZ-120	SMPZ-120-GW031711	Bi-214	Total	1.5	NA	1.2	NA
PZ-120	SMPZ-120-GW031711	Cd-113m	Filtered	2900 U	13000	3900	6400
PZ-120	SMPZ-120-GW031711	Cd-113m	Suspended	600 U	7100	2100	3400
PZ-120	SMPZ-120-GW031711	Cd-113m	Total	3500	NA	4500	NA
PZ-120	SMPZ-120-GW031711	Cf-249	Filtered	1.2 R	5.2	1.5	2.5
PZ-120	SMPZ-120-GW031711	Cf-249	Suspended	0.84 R	2.8	0.85	1.4
PZ-120	SMPZ-120-GW031711	Cf-249	Total	2 R	NA	1.8	NA
PZ-120	SMPZ-120-GW031711	Co-60	Filtered	0.21 U	0.83	0.24	0.37
PZ-120	SMPZ-120-GW031711	Co-60	Suspended	0.15 U	0.67	0.2	0.31
PZ-120	SMPZ-120-GW031711	Co-60	Total	0.36	NA	0.31	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW031711	Cs-134	Filtered	-0.15 U	0.8	0.24	0.38
PZ-120	SMPZ-120-GW031711	Cs-134	Suspended	-0.08 U	0.76	0.22	0.37
PZ-120	SMPZ-120-GW031711	Cs-134	Total	-0.23	NA	0.33	NA
PZ-120	SMPZ-120-GW031711	Cs-137	Filtered	0.21 U	1.1	0.32	0.51
PZ-120	SMPZ-120-GW031711	Cs-137	Suspended	0.25 U	0.58	0.17	0.27
PZ-120	SMPZ-120-GW031711	Cs-137	Total	0.45	NA	0.36	NA
PZ-120	SMPZ-120-GW031711	Eu-152	Filtered	-0.56 U	3.2	0.94	1.5
PZ-120	SMPZ-120-GW031711	Eu-152	Suspended	-0.37 U	1.7	0.51	0.82
PZ-120	SMPZ-120-GW031711	Eu-152	Total	-0.9	NA	1.1	NA
PZ-120	SMPZ-120-GW031711	Eu-154	Filtered	0 U	11	3.1	5.1
PZ-120	SMPZ-120-GW031711	Eu-154	Suspended	2.3 U	5.2	1.6	2.4
PZ-120	SMPZ-120-GW031711	Eu-154	Total	2.3	NA	3.5	NA
PZ-120	SMPZ-120-GW031711	Eu-155	Filtered	0.21 U	2.1	0.61	1
PZ-120	SMPZ-120-GW031711	Eu-155	Suspended	0.09 U	0.88	0.26	0.42
PZ-120	SMPZ-120-GW031711	Eu-155	Total	0.3	NA	0.66	NA
PZ-120	SMPZ-120-GW031711	gross_alpha	Filtered	6.04	0.45	0.51	0.23
PZ-120	SMPZ-120-GW031711	gross_alpha	Suspended	0.06 U	0.72	0.18	0.37
PZ-120	SMPZ-120-GW031711	gross_alpha	Total	6.11	NA	0.54	NA
PZ-120	SMPZ-120-GW031711	gross_beta	Filtered	3.51	2	0.74	1.2
PZ-120	SMPZ-120-GW031711	gross_beta	Suspended	1.2	0.88	0.3	0.52
PZ-120	SMPZ-120-GW031711	gross_beta	Total	4.7	NA	0.8	NA
PZ-120	SMPZ-120-GW031711	H-3	Total	33 U	140	42	68
PZ-120	SMPZ-120-GW031711	Ho-166m	Filtered	0.12 U	1.8	0.52	0.85
PZ-120	SMPZ-120-GW031711	Ho-166m	Suspended	-0.36 U	1.2	0.36	0.58
PZ-120	SMPZ-120-GW031711	Ho-166m	Total	-0.24	NA	0.63	NA
PZ-120	SMPZ-120-GW031711	K-40	Filtered	5.9 U	18	5.7	8.6
PZ-120	SMPZ-120-GW031711	K-40	Suspended	-5.9 U	11	5.6	5.2
PZ-120	SMPZ-120-GW031711	K-40	Total	-0.006	NA	7.9	NA
PZ-120	SMPZ-120-GW031711	Na-22	Filtered	0.06 U	1.2	0.33	0.54
PZ-120	SMPZ-120-GW031711	Na-22	Suspended	0.02 U	0.65	0.18	0.3
PZ-120	SMPZ-120-GW031711	Na-22	Total	0.08	NA	0.38	NA
PZ-120	SMPZ-120-GW031711	Nb-94	Filtered	0.4 U	0.93	0.28	0.44
PZ-120	SMPZ-120-GW031711	Nb-94	Suspended	0 U	0.72	0.21	0.34
PZ-120	SMPZ-120-GW031711	Nb-94	Total	0.4	NA	0.35	NA
PZ-120	SMPZ-120-GW031711	Np-236	Filtered	-0.54 U	2.3	0.69	1.1
PZ-120	SMPZ-120-GW031711	Np-236	Suspended	0.01 U	0.79	0.23	0.38
PZ-120	SMPZ-120-GW031711	Np-236	Total	-0.53	NA	0.72	NA
PZ-120	SMPZ-120-GW031711	Np-239	Filtered	1.6 U	7.1	2.1	3.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW031711	Np-239	Suspended	0.5 U	3.6	1.1	1.7
PZ-120	SMPZ-120-GW031711	Np-239	Total	2.1	NA	2.4	NA
PZ-120	SMPZ-120-GW031711	Pa-231	Filtered	-4 U	50	15	24
PZ-120	SMPZ-120-GW031711	Pa-231	Suspended	6.7 U	25	7.6	12
PZ-120	SMPZ-120-GW031711	Pa-231	Total	3	NA	17	NA
PZ-120	SMPZ-120-GW031711	Pb-212	Filtered	0.04 U	2.6	0.69	1.3
PZ-120	SMPZ-120-GW031711	Pb-212	Suspended	-0.12 U	1.1	0.45	0.56
PZ-120	SMPZ-120-GW031711	Pb-212	Total	-0.07	NA	0.82	NA
PZ-120	SMPZ-120-GW031711	Pb-214	Filtered	-0.08 U	2.7	0.76	1.3
PZ-120	SMPZ-120-GW031711	Pb-214	Suspended	0.02 U	1.6	0.59	0.76
PZ-120	SMPZ-120-GW031711	Pb-214	Total	-0.07	NA	0.96	NA
PZ-120	SMPZ-120-GW031711	Sb-125	Filtered	-2.8 U	12	3.6	5.9
PZ-120	SMPZ-120-GW031711	Sb-125	Suspended	1 U	5.4	1.6	2.6
PZ-120	SMPZ-120-GW031711	Sb-125	Total	-1.8	NA	4	NA
PZ-120	SMPZ-120-GW031711	Sn-126	Filtered	0.47 U	1.2	0.37	0.58
PZ-120	SMPZ-120-GW031711	Sn-126	Suspended	0.3 U	0.73	0.22	0.35
PZ-120	SMPZ-120-GW031711	Sn-126	Total	0.77	NA	0.43	NA
PZ-120	SMPZ-120-GW031711	Sr-90	Filtered	0.059 U	0.13	0.039	0.072
PZ-120	SMPZ-120-GW031711	Sr-90	Suspended	0.009 U	0.13	0.036	0.074
PZ-120	SMPZ-120-GW031711	Sr-90	Total	0.068	NA	0.053	NA
PZ-120	SMPZ-120-GW031711	Te-125m	Filtered	-0.66 U	2.8	0.83	1.4
PZ-120	SMPZ-120-GW031711	Te-125m	Suspended	0.23 U	1.2	0.37	0.61
PZ-120	SMPZ-120-GW031711	Te-125m	Total	-0.43	NA	0.91	NA
PZ-120	SMPZ-120-GW031711	Th-231	Filtered	0.129	0.007	0.019	0.005
PZ-120	SMPZ-120-GW031711	Th-231	Suspended	0.0026 U	0.007	0.0026	0.006
PZ-120	SMPZ-120-GW031711	Th-231	Total	0.132	NA	0.019	NA
PZ-120	SMPZ-120-GW031711	Th-234	Filtered	5.6 U	21	7.4	10
PZ-120	SMPZ-120-GW031711	Th-234	Suspended	1.2 U	7.5	2.7	3.7
PZ-120	SMPZ-120-GW031711	Th-234	Total	6.8	NA	7.8	NA
PZ-120	SMPZ-120-GW031711	Tl-208	Filtered	0.44 U	1.3	0.45	0.61
PZ-120	SMPZ-120-GW031711	Tl-208	Suspended	-0.12 U	0.79	0.27	0.38
PZ-120	SMPZ-120-GW031711	Tl-208	Total	0.32	NA	0.52	NA
PZ-120	SMPZ-120-GW031711	Tm-171	Filtered	-40 U	340	100	160
PZ-120	SMPZ-120-GW031711	Tm-171	Suspended	-5 U	110	32	52
PZ-120	SMPZ-120-GW031711	Tm-171	Total	-50	NA	110	NA
PZ-120	SMPZ-120-GW031711	U-233/234	Filtered	2.79	0.02	0.14	0.007
PZ-120	SMPZ-120-GW031711	U-233/234	Suspended	0.006	0.0056	0.0059	0.0048
PZ-120	SMPZ-120-GW031711	U-233/234	Total	2.79	NA	0.14	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-120	SMPZ-120-GW031711	U-235/236	Filtered	0.129	0.007	0.019	0.005
PZ-120	SMPZ-120-GW031711	U-235/236	Suspended	0.0026 U	0.007	0.0026	0.006
PZ-120	SMPZ-120-GW031711	U-235/236	Total	0.132	NA	0.019	NA
PZ-120	SMPZ-120-GW031711	U-238	Filtered	2.72	0.01	0.14	0.004
PZ-120	SMPZ-120-GW031711	U-238	Suspended	0.0108	0.015	0.0069	0.0048
PZ-120	SMPZ-120-GW031711	U-238	Total	2.73	NA	0.14	NA
PZ-121	SMPZ-121-GW031611	Ac-227	Filtered	0.9 U	5.7	1.7	2.7
PZ-121	SMPZ-121-GW031611	Ac-227	Suspended	-0.8 U	3.4	1	1.7
PZ-121	SMPZ-121-GW031611	Ac-227	Total	0.07	NA	2	NA
PZ-121	SMPZ-121-GW031611	Ac-228	Filtered	1.8 U	4.9	1.5	2.3
PZ-121	SMPZ-121-GW031611	Ac-228	Suspended	-1.1 U	2.9	1.9	1.4
PZ-121	SMPZ-121-GW031611	Ac-228	Total	0.7	NA	2.4	NA
PZ-121	SMPZ-121-GW031611	Ag-108	Filtered	0.06 R	0.08	0.025	0.037
PZ-121	SMPZ-121-GW031611	Ag-108	Suspended	-0.005 R	0.051	0.015	0.025
PZ-121	SMPZ-121-GW031611	Ag-108	Total	0.056 R	NA	0.03	NA
PZ-121	SMPZ-121-GW031611	Ag-108m	Filtered	0.65 R	0.86	0.27	0.4
PZ-121	SMPZ-121-GW031611	Ag-108m	Suspended	-0.05 R	0.55	0.16	0.27
PZ-121	SMPZ-121-GW031611	Ag-108m	Total	0.6 R	NA	0.32	NA
PZ-121	SMPZ-121-GW031611	Ba-133	Filtered	-4 R	14	4.2	6.7
PZ-121	SMPZ-121-GW031611	Ba-133	Suspended	0.3 R	6.2	1.8	3
PZ-121	SMPZ-121-GW031611	Ba-133	Total	-3.7 R	NA	4.6	NA
PZ-121	SMPZ-121-GW031611	Ba-137m	Filtered	-0.34 U	1.4	0.41	0.65
PZ-121	SMPZ-121-GW031611	Ba-137m	Suspended	0.06 U	0.7	0.21	0.34
PZ-121	SMPZ-121-GW031611	Ba-137m	Total	-0.28	NA	0.46	NA
PZ-121	SMPZ-121-GW031611	Bi-212	Filtered	-5 U	12	13	6
PZ-121	SMPZ-121-GW031611	Bi-212	Suspended	-0.9 U	5.7	1.7	2.7
PZ-121	SMPZ-121-GW031611	Bi-212	Total	-6	NA	13	NA
PZ-121	SMPZ-121-GW031611	Bi-214	Filtered	2.9	3	1	1.4
PZ-121	SMPZ-121-GW031611	Bi-214	Suspended	0.008 U	1.6	0.4	0.77
PZ-121	SMPZ-121-GW031611	Bi-214	Total	2.9	NA	1.1	NA
PZ-121	SMPZ-121-GW031611	Cd-113m	Filtered	3000 U	16000	4800	7700
PZ-121	SMPZ-121-GW031611	Cd-113m	Suspended	50 U	5400	1600	2600
PZ-121	SMPZ-121-GW031611	Cd-113m	Total	3100	NA	5000	NA
PZ-121	SMPZ-121-GW031611	Cf-249	Filtered	1.9 R	7	2.1	3.3
PZ-121	SMPZ-121-GW031611	Cf-249	Suspended	0.8 R	2.5	0.76	1.2
PZ-121	SMPZ-121-GW031611	Cf-249	Total	2.7 R	NA	2.2	NA
PZ-121	SMPZ-121-GW031611	Co-60	Filtered	-0.03 U	1.6	0.44	0.73
PZ-121	SMPZ-121-GW031611	Co-60	Suspended	0.13 U	0.74	0.21	0.34

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW031611	Co-60	Total	0.1	NA	0.49	NA
PZ-121	SMPZ-121-GW031611	Cs-134	Filtered	-0.29 U	1.5	0.43	0.69
PZ-121	SMPZ-121-GW031611	Cs-134	Suspended	-0.12 U	0.72	0.21	0.35
PZ-121	SMPZ-121-GW031611	Cs-134	Total	-0.41	NA	0.48	NA
PZ-121	SMPZ-121-GW031611	Cs-137	Filtered	-0.36 U	1.5	0.43	0.68
PZ-121	SMPZ-121-GW031611	Cs-137	Suspended	0.06 U	0.74	0.22	0.36
PZ-121	SMPZ-121-GW031611	Cs-137	Total	-0.29	NA	0.48	NA
PZ-121	SMPZ-121-GW031611	Eu-152	Filtered	0.3 U	3.6	1	1.7
PZ-121	SMPZ-121-GW031611	Eu-152	Suspended	0.08 U	1.7	0.51	0.83
PZ-121	SMPZ-121-GW031611	Eu-152	Total	0.4	NA	1.2	NA
PZ-121	SMPZ-121-GW031611	Eu-154	Filtered	2 U	13	3.7	5.9
PZ-121	SMPZ-121-GW031611	Eu-154	Suspended	-1.5 U	6.3	1.9	3
PZ-121	SMPZ-121-GW031611	Eu-154	Total	0.5	NA	4.1	NA
PZ-121	SMPZ-121-GW031611	Eu-155	Filtered	-0.57 U	3	0.9	1.5
PZ-121	SMPZ-121-GW031611	Eu-155	Suspended	0.03 U	1.2	0.35	0.58
PZ-121	SMPZ-121-GW031611	Eu-155	Total	-0.54	NA	0.97	NA
PZ-121	SMPZ-121-GW031611	gross_alpha	Filtered	1.74	0.38	0.25	0.2
PZ-121	SMPZ-121-GW031611	gross_alpha	Suspended	0.63	0.65	0.23	0.34
PZ-121	SMPZ-121-GW031611	gross_alpha	Total	2.37	NA	0.34	NA
PZ-121	SMPZ-121-GW031611	gross_beta	Filtered	2.01	1.9	0.64	1.1
PZ-121	SMPZ-121-GW031611	gross_beta	Suspended	0.28 U	0.74	0.22	0.43
PZ-121	SMPZ-121-GW031611	gross_beta	Total	2.28	NA	0.68	NA
PZ-121	SMPZ-121-GW031611	H-3	Total	63 U	140	44	70
PZ-121	SMPZ-121-GW031611	Ho-166m	Filtered	-0.45 U	2.4	0.68	1.1
PZ-121	SMPZ-121-GW031611	Ho-166m	Suspended	0.04 U	1.1	0.33	0.54
PZ-121	SMPZ-121-GW031611	Ho-166m	Total	-0.41	NA	0.76	NA
PZ-121	SMPZ-121-GW031611	K-40	Filtered	-16 U	26	29	12
PZ-121	SMPZ-121-GW031611	K-40	Suspended	-6.1 U	12	4.2	6
PZ-121	SMPZ-121-GW031611	K-40	Total	-22	NA	29	NA
PZ-121	SMPZ-121-GW031611	Na-22	Filtered	0.2 U	1.3	0.36	0.57
PZ-121	SMPZ-121-GW031611	Na-22	Suspended	0.008 U	0.61	0.17	0.28
PZ-121	SMPZ-121-GW031611	Na-22	Total	0.21	NA	0.4	NA
PZ-121	SMPZ-121-GW031611	Nb-94	Filtered	-0.24 U	1.4	0.41	0.66
PZ-121	SMPZ-121-GW031611	Nb-94	Suspended	0.01 U	0.59	0.17	0.28
PZ-121	SMPZ-121-GW031611	Nb-94	Total	-0.22	NA	0.45	NA
PZ-121	SMPZ-121-GW031611	Np-236	Filtered	0.12 U	2.8	0.84	1.4
PZ-121	SMPZ-121-GW031611	Np-236	Suspended	0.45 U	1.2	0.35	0.56
PZ-121	SMPZ-121-GW031611	Np-236	Total	0.57	NA	0.91	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW031611	Np-239	Filtered	-0.9 U	8.2	2.4	3.9
PZ-121	SMPZ-121-GW031611	Np-239	Suspended	-0.8 U	3.7	1.1	1.8
PZ-121	SMPZ-121-GW031611	Np-239	Total	-1.7	NA	2.7	NA
PZ-121	SMPZ-121-GW031611	Pa-231	Filtered	-9 U	61	18	29
PZ-121	SMPZ-121-GW031611	Pa-231	Suspended	-0.3 U	28	8.1	13
PZ-121	SMPZ-121-GW031611	Pa-231	Total	-9	NA	20	NA
PZ-121	SMPZ-121-GW031611	Pb-212	Filtered	-0.24 U	2.4	0.87	1.1
PZ-121	SMPZ-121-GW031611	Pb-212	Suspended	-0.03 U	1.1	0.37	0.55
PZ-121	SMPZ-121-GW031611	Pb-212	Total	-0.26	NA	0.95	NA
PZ-121	SMPZ-121-GW031611	Pb-214	Filtered	0.11 U	3.1	0.98	1.5
PZ-121	SMPZ-121-GW031611	Pb-214	Suspended	0.34 U	1.5	0.55	0.73
PZ-121	SMPZ-121-GW031611	Pb-214	Total	0.5	NA	1.1	NA
PZ-121	SMPZ-121-GW031611	Sb-125	Filtered	-0.3 U	13	3.9	6.4
PZ-121	SMPZ-121-GW031611	Sb-125	Suspended	-1.6 U	5.8	1.7	2.8
PZ-121	SMPZ-121-GW031611	Sb-125	Total	-1.9	NA	4.2	NA
PZ-121	SMPZ-121-GW031611	Sn-126	Filtered	0.66	1.3	0.39	0.58
PZ-121	SMPZ-121-GW031611	Sn-126	Suspended	0.12 U	0.75	0.22	0.36
PZ-121	SMPZ-121-GW031611	Sn-126	Total	0.77	NA	0.45	NA
PZ-121	SMPZ-121-GW031611	Sr-90	Filtered	0.05 U	0.16	0.048	0.09
PZ-121	SMPZ-121-GW031611	Sr-90	Suspended	0.011 U	0.12	0.035	0.072
PZ-121	SMPZ-121-GW031611	Sr-90	Total	0.061	NA	0.059	NA
PZ-121	SMPZ-121-GW031611	Te-125m	Filtered	-0.07 U	3.1	0.9	1.5
PZ-121	SMPZ-121-GW031611	Te-125m	Suspended	-0.38 U	1.3	0.4	0.65
PZ-121	SMPZ-121-GW031611	Te-125m	Total	-0.45	NA	0.98	NA
PZ-121	SMPZ-121-GW031611	Th-231	Filtered	0.0366	0.0071	0.0099	0.0054
PZ-121	SMPZ-121-GW031611	Th-231	Suspended	0.0024 U	0.0066	0.0024	0.0056
PZ-121	SMPZ-121-GW031611	Th-231	Total	0.039	NA	0.01	NA
PZ-121	SMPZ-121-GW031611	Th-234	Filtered	-6.5 U	21	8.1	10
PZ-121	SMPZ-121-GW031611	Th-234	Suspended	1.8 U	8.4	2.7	4.1
PZ-121	SMPZ-121-GW031611	Th-234	Total	-4.7	NA	8.5	NA
PZ-121	SMPZ-121-GW031611	Tl-208	Filtered	0.75	1.4	0.43	0.65
PZ-121	SMPZ-121-GW031611	Tl-208	Suspended	0.52	0.7	0.26	0.34
PZ-121	SMPZ-121-GW031611	Tl-208	Total	1.26	NA	0.5	NA
PZ-121	SMPZ-121-GW031611	Tm-171	Filtered	45 U	330	99	160
PZ-121	SMPZ-121-GW031611	Tm-171	Suspended	23 U	110	33	53
PZ-121	SMPZ-121-GW031611	Tm-171	Total	70	NA	100	NA
PZ-121	SMPZ-121-GW031611	U-233/234	Filtered	0.622	0.014	0.045	0.004
PZ-121	SMPZ-121-GW031611	U-233/234	Suspended	0.0108	0.018	0.0076	0.0064

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-121	SMPZ-121-GW031611	U-233/234	Total	0.633	NA	0.046	NA
PZ-121	SMPZ-121-GW031611	U-235/236	Filtered	0.0366	0.0071	0.0099	0.0054
PZ-121	SMPZ-121-GW031611	U-235/236	Suspended	0.0024 U	0.0066	0.0024	0.0056
PZ-121	SMPZ-121-GW031611	U-235/236	Total	0.039	NA	0.01	NA
PZ-121	SMPZ-121-GW031611	U-238	Filtered	0.45	0.014	0.036	0.004
PZ-121	SMPZ-121-GW031611	U-238	Suspended	0.0116	0.0053	0.0062	0.0045
PZ-121	SMPZ-121-GW031611	U-238	Total	0.461	NA	0.037	NA
PZ-122	SMPZ-122-GW032511	Ac-227	Filtered	-7.2 L U	9.8	3	4.8
PZ-122	SMPZ-122-GW032511	Ac-227	Suspended	0.9 U	4.2	1.2	2
PZ-122	SMPZ-122-GW032511	Ac-227	Total	-6.3	NA	3.3	NA
PZ-122	SMPZ-122-GW032511	Ac-228	Filtered	3.1	3.6	1.1	1.7
PZ-122	SMPZ-122-GW032511	Ac-228	Suspended	1.04 U	2.5	0.76	1.2
PZ-122	SMPZ-122-GW032511	Ac-228	Total	4.1	NA	1.4	NA
PZ-122	SMPZ-122-GW032511	Ag-108	Filtered	-0.006 U R	0.092	0.027	0.044
PZ-122	SMPZ-122-GW032511	Ag-108	Suspended	-0.022 U R	0.059	0.018	0.028
PZ-122	SMPZ-122-GW032511	Ag-108	Total	-0.028 R	NA	0.032	NA
PZ-122	SMPZ-122-GW032511	Ag-108m	Filtered	-0.06 U R	0.98	0.29	0.47
PZ-122	SMPZ-122-GW032511	Ag-108m	Suspended	-0.24 U R	0.63	0.19	0.3
PZ-122	SMPZ-122-GW032511	Ag-108m	Total	-0.31 R	NA	0.35	NA
PZ-122	SMPZ-122-GW032511	Ba-133	Filtered	2.8 U R	10	3.1	5
PZ-122	SMPZ-122-GW032511	Ba-133	Suspended	0.4 U R	6.6	1.9	3.2
PZ-122	SMPZ-122-GW032511	Ba-133	Total	3.3 R	NA	3.7	NA
PZ-122	SMPZ-122-GW032511	Ba-137m	Filtered	-0.21 U	1.1	0.33	0.53
PZ-122	SMPZ-122-GW032511	Ba-137m	Suspended	0.14 U	0.68	0.2	0.32
PZ-122	SMPZ-122-GW032511	Ba-137m	Total	-0.07	NA	0.39	NA
PZ-122	SMPZ-122-GW032511	Bi-212	Filtered	1 U	8	2.3	3.8
PZ-122	SMPZ-122-GW032511	Bi-212	Suspended	1.9 U	5.8	1.7	2.7
PZ-122	SMPZ-122-GW032511	Bi-212	Total	2.9	NA	2.9	NA
PZ-122	SMPZ-122-GW032511	Bi-214	Filtered	0.13 U	2.5	0.77	1.2
PZ-122	SMPZ-122-GW032511	Bi-214	Suspended	1.06	1.7	0.63	0.82
PZ-122	SMPZ-122-GW032511	Bi-214	Total	1.19	NA	1	NA
PZ-122	SMPZ-122-GW032511	Cd-113m	Filtered	-2000 U	14000	4200	6800
PZ-122	SMPZ-122-GW032511	Cd-113m	Suspended	100 U	7800	2300	3800
PZ-122	SMPZ-122-GW032511	Cd-113m	Total	-1800	NA	4700	NA
PZ-122	SMPZ-122-GW032511	Cf-249	Filtered	1.1 U R	5.2	1.5	2.5
PZ-122	SMPZ-122-GW032511	Cf-249	Suspended	-1.02 U R	3	0.91	1.5
PZ-122	SMPZ-122-GW032511	Cf-249	Total	0.07 R	NA	1.8	NA
PZ-122	SMPZ-122-GW032511	Co-60	Filtered	0.33 U	1.1	0.33	0.51

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW032511	Co-60	Suspended	-0.11 U	0.86	0.25	0.39
PZ-122	SMPZ-122-GW032511	Co-60	Total	0.21	NA	0.41	NA
PZ-122	SMPZ-122-GW032511	Cs-134	Filtered	-0.23 U	1.1	0.34	0.55
PZ-122	SMPZ-122-GW032511	Cs-134	Suspended	-0.11 U	0.81	0.24	0.38
PZ-122	SMPZ-122-GW032511	Cs-134	Total	-0.34 SK	NA	0.41	NA
PZ-122	SMPZ-122-GW032511	Cs-137	Filtered	-0.22 U	1.2	0.35	0.56
PZ-122	SMPZ-122-GW032511	Cs-137	Suspended	0.15 U	0.72	0.21	0.34
PZ-122	SMPZ-122-GW032511	Cs-137	Total	-0.07	NA	0.41	NA
PZ-122	SMPZ-122-GW032511	Eu-152	Filtered	-0.26 U	3.1	0.9	1.5
PZ-122	SMPZ-122-GW032511	Eu-152	Suspended	0.002 U	1.6	0.47	0.77
PZ-122	SMPZ-122-GW032511	Eu-152	Total	-0.3	NA	1	NA
PZ-122	SMPZ-122-GW032511	Eu-154	Filtered	2 U	8.8	2.6	4.1
PZ-122	SMPZ-122-GW032511	Eu-154	Suspended	0.2 U J	5.5	1.5	2.5
PZ-122	SMPZ-122-GW032511	Eu-154	Total	2.2	NA	3	NA
PZ-122	SMPZ-122-GW032511	Eu-155	Filtered	-0.9 U	3	0.9	1.5
PZ-122	SMPZ-122-GW032511	Eu-155	Suspended	0.14 U	1.4	0.42	0.7
PZ-122	SMPZ-122-GW032511	Eu-155	Total	-0.762 SK	NA	0.996	NA
PZ-122	SMPZ-122-GW032511	gross_alpha	Filtered	10.9	0.45	0.78	0.22
PZ-122	SMPZ-122-GW032511	gross_alpha	Suspended	0.36 U	1.8	0.5	0.98
PZ-122	SMPZ-122-GW032511	gross_alpha	Total	10.9	NA	1.1	NA
PZ-122	SMPZ-122-GW032511	gross_beta	Filtered	11.9	2.3	1.2	1.3
PZ-122	SMPZ-122-GW032511	gross_beta	Suspended	0.37 U	0.97	0.3	0.57
PZ-122	SMPZ-122-GW032511	gross_beta	Total	12.3	NA	1.2	NA
PZ-122	SMPZ-122-GW032511	H-3	Total	14 U	120	34	56
PZ-122	SMPZ-122-GW032511	Ho-166m	Filtered	-0.53 U	1.8	0.52	0.83
PZ-122	SMPZ-122-GW032511	Ho-166m	Suspended	0 U	1.6	0.45	0.74
PZ-122	SMPZ-122-GW032511	Ho-166m	Total	-0.53 SK	NA	0.69	NA
PZ-122	SMPZ-122-GW032511	K-40	Filtered	1.8 U	18	4.9	8.5
PZ-122	SMPZ-122-GW032511	K-40	Suspended	-3 U	12	4.3	5.7
PZ-122	SMPZ-122-GW032511	K-40	Total	-1.2	NA	6.5	NA
PZ-122	SMPZ-122-GW032511	Na-22	Filtered	-0.08 U	0.99	0.28	0.45
PZ-122	SMPZ-122-GW032511	Na-22	Suspended	-0.11 U	0.82	0.23	0.37
PZ-122	SMPZ-122-GW032511	Na-22	Total	-0.19	NA	0.36	NA
PZ-122	SMPZ-122-GW032511	Nb-94	Filtered	-0.24 U	1	0.3	0.48
PZ-122	SMPZ-122-GW032511	Nb-94	Suspended	0.22 U	0.64	0.19	0.3
PZ-122	SMPZ-122-GW032511	Nb-94	Total	-0.02	NA	0.36	NA
PZ-122	SMPZ-122-GW032511	Np-236	Filtered	-0.41 U	2.5	0.74	1.2
PZ-122	SMPZ-122-GW032511	Np-236	Suspended	-0.14 U	1.4	0.41	0.68

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW032511	Np-236	Total	-0.55 SK	NA	0.85	NA
PZ-122	SMPZ-122-GW032511	Np-239	Filtered	-0.02 U	7.4	2.2	3.6
PZ-122	SMPZ-122-GW032511	Np-239	Suspended	0.5 U	3.8	1.1	1.8
PZ-122	SMPZ-122-GW032511	Np-239	Total	0.5	NA	2.4	NA
PZ-122	SMPZ-122-GW032511	Pa-231	Filtered	-1 U	39	11	19
PZ-122	SMPZ-122-GW032511	Pa-231	Suspended	-6.2 U	29	8.6	14
PZ-122	SMPZ-122-GW032511	Pa-231	Total	-8	NA	14	NA
PZ-122	SMPZ-122-GW032511	Pb-212	Filtered	0.07 U	2.3	0.71	1.1
PZ-122	SMPZ-122-GW032511	Pb-212	Suspended	0.45 U	1.3	0.48	0.64
PZ-122	SMPZ-122-GW032511	Pb-212	Total	0.52	NA	0.86	NA
PZ-122	SMPZ-122-GW032511	Pb-214	Filtered	0.81 U	2.4	0.85	1.2
PZ-122	SMPZ-122-GW032511	Pb-214	Suspended	0.65 U	1.6	0.62	0.76
PZ-122	SMPZ-122-GW032511	Pb-214	Total	1.5	NA	1.1	NA
PZ-122	SMPZ-122-GW032511	Sb-125	Filtered	3.9 U	12	3.6	5.8
PZ-122	SMPZ-122-GW032511	Sb-125	Suspended	-1.2 U	6.4	1.9	3.1
PZ-122	SMPZ-122-GW032511	Sb-125	Total	2.7 SK	NA	4.1	NA
PZ-122	SMPZ-122-GW032511	Sn-126	Filtered	0.12 U	1.3	0.37	0.6
PZ-122	SMPZ-122-GW032511	Sn-126	Suspended	0.35 U	0.78	0.24	0.37
PZ-122	SMPZ-122-GW032511	Sn-126	Total	0.47	NA	0.44	NA
PZ-122	SMPZ-122-GW032511	Sr-90	Filtered	0.105	0.14	0.044	0.079
PZ-122	SMPZ-122-GW032511	Sr-90	Suspended	-0.054 U	0.12	0.034	0.071
PZ-122	SMPZ-122-GW032511	Sr-90	Total	0.052	NA	0.056	NA
PZ-122	SMPZ-122-GW032511	Te-125m	Filtered	0.9 U	2.8	0.83	1.3
PZ-122	SMPZ-122-GW032511	Te-125m	Suspended	-0.27 U	1.5	0.44	0.71
PZ-122	SMPZ-122-GW032511	Te-125m	Total	0.63 SK	NA	0.94	NA
PZ-122	SMPZ-122-GW032511	Th-231	Filtered	0.417	0.018	0.038	0.006
PZ-122	SMPZ-122-GW032511	Th-231	Suspended	0 U	0.0063	0.0019	0.0049
PZ-122	SMPZ-122-GW032511	Th-231	Total	0.417	NA	0.038	NA
PZ-122	SMPZ-122-GW032511	Th-234	Filtered	11.1	22	7.8	11
PZ-122	SMPZ-122-GW032511	Th-234	Suspended	-1.3 U	8.4	3	4.1
PZ-122	SMPZ-122-GW032511	Th-234	Total	9.9	NA	8.4	NA
PZ-122	SMPZ-122-GW032511	Tl-208	Filtered	0.75	1.2	0.43	0.59
PZ-122	SMPZ-122-GW032511	Tl-208	Suspended	0.97	0.79	0.31	0.37
PZ-122	SMPZ-122-GW032511	Tl-208	Total	1.73	NA	0.53	NA
PZ-122	SMPZ-122-GW032511	Tm-171	Filtered	177	320	99	160
PZ-122	SMPZ-122-GW032511	Tm-171	Suspended	-31 U	130	38	62
PZ-122	SMPZ-122-GW032511	Tm-171	Total	150	NA	110	NA
PZ-122	SMPZ-122-GW032511	U-233/234	Filtered	8.68	0.01	0.39	0.004

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-122	SMPZ-122-GW032511	U-233/234	Suspended	0.0206	0.012	0.0079	0.0039
PZ-122	SMPZ-122-GW032511	U-233/234	Total	8.7	NA	0.39	NA
PZ-122	SMPZ-122-GW032511	U-235/236	Filtered	0.417	0.018	0.038	0.006
PZ-122	SMPZ-122-GW032511	U-235/236	Suspended	0 U	0.0063	0.0019	0.0049
PZ-122	SMPZ-122-GW032511	U-235/236	Total	0.417	NA	0.038	NA
PZ-122	SMPZ-122-GW032511	U-238	Filtered	8.17	0.006	0.37	0.004
PZ-122	SMPZ-122-GW032511	U-238	Suspended	0.0152	0.0051	0.0065	0.0039
PZ-122	SMPZ-122-GW032511	U-238	Total	8.19	NA	0.37	NA
PZ-124	SMPZ-124-GW033011	Ac-227	Filtered	-5.5 U	10	3.1	5
PZ-124	SMPZ-124-GW033011	Ac-227	Suspended	-0.06 U	3.3	0.97	1.6
PZ-124	SMPZ-124-GW033011	Ac-227	Total	-5.5	NA	3.2	NA
PZ-124	SMPZ-124-GW033011	Ac-228	Filtered	4	3.3	1.1	1.5
PZ-124	SMPZ-124-GW033011	Ac-228	Suspended	0.9	1.8	0.55	0.85
PZ-124	SMPZ-124-GW033011	Ac-228	Total	4.9	NA	1.2	NA
PZ-124	SMPZ-124-GW033011	Ag-108	Filtered	0.028 U R	0.084	0.025	0.04
PZ-124	SMPZ-124-GW033011	Ag-108	Suspended	-0.006 U R	0.038	0.011	0.018
PZ-124	SMPZ-124-GW033011	Ag-108	Total	0.022 R	NA	0.028	NA
PZ-124	SMPZ-124-GW033011	Ag-108m	Filtered	0.3 U R	0.9	0.27	0.43
PZ-124	SMPZ-124-GW033011	Ag-108m	Suspended	-0.06 U R	0.41	0.12	0.19
PZ-124	SMPZ-124-GW033011	Ag-108m	Total	0.24 R	NA	0.3	NA
PZ-124	SMPZ-124-GW033011	Ba-133	Filtered	-2.8 U R	12	3.5	5.8
PZ-124	SMPZ-124-GW033011	Ba-133	Suspended	-0.8 U R	4.5	1.3	2.2
PZ-124	SMPZ-124-GW033011	Ba-133	Total	-3.7 R	NA	3.8	NA
PZ-124	SMPZ-124-GW033011	Ba-137m	Filtered	-0.21 U	1.3	0.37	0.6
PZ-124	SMPZ-124-GW033011	Ba-137m	Suspended	0.02 U	0.51	0.15	0.24
PZ-124	SMPZ-124-GW033011	Ba-137m	Total	-0.19	NA	0.4	NA
PZ-124	SMPZ-124-GW033011	Bi-212	Filtered	4.1	8.3	2.5	3.9
PZ-124	SMPZ-124-GW033011	Bi-212	Suspended	0.9 U	3.9	1.2	1.8
PZ-124	SMPZ-124-GW033011	Bi-212	Total	5	NA	2.8	NA
PZ-124	SMPZ-124-GW033011	Bi-214	Filtered	-0.8 U	3.1	1.1	1.5
PZ-124	SMPZ-124-GW033011	Bi-214	Suspended	0.57	1.2	0.42	0.56
PZ-124	SMPZ-124-GW033011	Bi-214	Total	-0.2	NA	1.2	NA
PZ-124	SMPZ-124-GW033011	Cd-113m	Filtered	-2200 U	14000	4200	6800
PZ-124	SMPZ-124-GW033011	Cd-113m	Suspended	-200 U	5200	1500	2500
PZ-124	SMPZ-124-GW033011	Cd-113m	Total	-2400	NA	4500	NA
PZ-124	SMPZ-124-GW033011	Cf-249	Filtered	0.05 U R	5.5	1.6	2.7
PZ-124	SMPZ-124-GW033011	Cf-249	Suspended	-0.23 U R	2.5	0.74	1.2
PZ-124	SMPZ-124-GW033011	Cf-249	Total	-0.2 R	NA	1.8	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-124	SMPZ-124-GW033011	Co-60	Filtered	0.11 U	1.1	0.31	0.5
PZ-124	SMPZ-124-GW033011	Co-60	Suspended	0 U	0.75	0.21	0.35
PZ-124	SMPZ-124-GW033011	Co-60	Total	0.11	NA	0.37	NA
PZ-124	SMPZ-124-GW033011	Cs-134	Filtered	-0.25 U	1.3	0.38	0.61
PZ-124	SMPZ-124-GW033011	Cs-134	Suspended	-0.36 U	0.64	0.2	0.31
PZ-124	SMPZ-124-GW033011	Cs-134	Total	-0.6	NA	0.42	NA
PZ-124	SMPZ-124-GW033011	Cs-137	Filtered	-0.22 U	1.3	0.39	0.63
PZ-124	SMPZ-124-GW033011	Cs-137	Suspended	0.02 U	0.54	0.16	0.26
PZ-124	SMPZ-124-GW033011	Cs-137	Total	-0.2	NA	0.42	NA
PZ-124	SMPZ-124-GW033011	Eu-152	Filtered	1.45 U	3.2	0.97	1.5
PZ-124	SMPZ-124-GW033011	Eu-152	Suspended	0.3 U	1.4	0.41	0.66
PZ-124	SMPZ-124-GW033011	Eu-152	Total	1.8	NA	1.1	NA
PZ-124	SMPZ-124-GW033011	Eu-154	Filtered	4.2	7.5	2.3	3.5
PZ-124	SMPZ-124-GW033011	Eu-154	Suspended	-1 U	4.9	1.4	2.3
PZ-124	SMPZ-124-GW033011	Eu-154	Total	3.1	NA	2.7	NA
PZ-124	SMPZ-124-GW033011	Eu-155	Filtered	-0.48 U	3	0.9	1.5
PZ-124	SMPZ-124-GW033011	Eu-155	Suspended	-0.18 U	1.1	0.32	0.52
PZ-124	SMPZ-124-GW033011	Eu-155	Total	-0.66	NA	0.95	NA
PZ-124	SMPZ-124-GW033011	gross_alpha	Suspended	0.53	0.7	0.23	0.39
PZ-124	SMPZ-124-GW033011	gross_alpha	Total	58.4	NA	3	NA
PZ-124	SMPZ-124-GW033011	H-3	Total	-47 U	140	39	66
PZ-124	SMPZ-124-GW033011	Ho-166m	Filtered	0.46 U	1.7	0.51	0.82
PZ-124	SMPZ-124-GW033011	Ho-166m	Suspended	0.18 U	0.83	0.24	0.39
PZ-124	SMPZ-124-GW033011	Ho-166m	Total	0.65	NA	0.57	NA
PZ-124	SMPZ-124-GW033011	K-40	Filtered	21.9	19	6.7	9
PZ-124	SMPZ-124-GW033011	K-40	Suspended	-4.7 U	8.8	4.4	4.2
PZ-124	SMPZ-124-GW033011	K-40	Total	17.2	NA	8	NA
PZ-124	SMPZ-124-GW033011	Na-22	Filtered	0.1 U	1.3	0.36	0.58
PZ-124	SMPZ-124-GW033011	Na-22	Suspended	-0.05 U	0.54	0.15	0.25
PZ-124	SMPZ-124-GW033011	Na-22	Total	0.05	NA	0.39	NA
PZ-124	SMPZ-124-GW033011	Nb-94	Filtered	0.38 U	1.1	0.32	0.5
PZ-124	SMPZ-124-GW033011	Nb-94	Suspended	0.06 U	0.51	0.15	0.24
PZ-124	SMPZ-124-GW033011	Nb-94	Total	0.44	NA	0.35	NA
PZ-124	SMPZ-124-GW033011	Np-236	Filtered	-0.74 U	2.6	0.79	1.3
PZ-124	SMPZ-124-GW033011	Np-236	Suspended	0.07 U	0.97	0.29	0.47
PZ-124	SMPZ-124-GW033011	Np-236	Total	-0.67	NA	0.84	NA
PZ-124	SMPZ-124-GW033011	Np-239	Filtered	-0.1 U	7.4	2.2	3.6
PZ-124	SMPZ-124-GW033011	Np-239	Suspended	0.54 U	2.9	0.86	1.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-124	SMPZ-124-GW033011	Np-239	Total	0.4	NA	2.3	NA
PZ-124	SMPZ-124-GW033011	Pa-231	Filtered	-0.7 U	52	15	25
PZ-124	SMPZ-124-GW033011	Pa-231	Suspended	7.4 U	20	6	9.7
PZ-124	SMPZ-124-GW033011	Pa-231	Total	7	NA	16	NA
PZ-124	SMPZ-124-GW033011	Pb-212	Filtered	1.26	2.3	0.75	1.1
PZ-124	SMPZ-124-GW033011	Pb-212	Suspended	0.31 U	0.69	0.24	0.33
PZ-124	SMPZ-124-GW033011	Pb-212	Total	1.57	NA	0.78	NA
PZ-124	SMPZ-124-GW033011	Pb-214	Filtered	0.91 U	2.7	0.74	1.3
PZ-124	SMPZ-124-GW033011	Pb-214	Suspended	0.57	0.98	0.37	0.47
PZ-124	SMPZ-124-GW033011	Pb-214	Total	1.48	NA	0.83	NA
PZ-124	SMPZ-124-GW033011	Sb-125	Filtered	2.5 U	12	3.5	5.7
PZ-124	SMPZ-124-GW033011	Sb-125	Suspended	0.7 U	4.3	1.3	2.1
PZ-124	SMPZ-124-GW033011	Sb-125	Total	3.2	NA	3.7	NA
PZ-124	SMPZ-124-GW033011	Sn-126	Filtered	0.54	1.1	0.33	0.51
PZ-124	SMPZ-124-GW033011	Sn-126	Suspended	-0.0009 U	0.61	0.18	0.29
PZ-124	SMPZ-124-GW033011	Sn-126	Total	0.54	NA	0.37	NA
PZ-124	SMPZ-124-GW033011	Te-125m	Filtered	0.57 U	2.7	0.81	1.3
PZ-124	SMPZ-124-GW033011	Te-125m	Suspended	0.16 U	1	0.3	0.49
PZ-124	SMPZ-124-GW033011	Te-125m	Total	0.73	NA	0.86	NA
PZ-124	SMPZ-124-GW033011	Th-231	Filtered	1.77	0.01	0.11	0.008
PZ-124	SMPZ-124-GW033011	Th-231	Suspended	0.0025 U	0.0068	0.0025	0.0053
PZ-124	SMPZ-124-GW033011	Th-231	Total	1.77	NA	0.11	NA
PZ-124	SMPZ-124-GW033011	Th-234	Filtered	19.5	23	8.3	11
PZ-124	SMPZ-124-GW033011	Th-234	Suspended	1.1 U	4.9	1.4	2.3
PZ-124	SMPZ-124-GW033011	Th-234	Total	20.6	NA	8.4	NA
PZ-124	SMPZ-124-GW033011	Tl-208	Filtered	-0.22 U	1.5	0.5	0.72
PZ-124	SMPZ-124-GW033011	Tl-208	Suspended	0.03 U	0.62	0.17	0.3
PZ-124	SMPZ-124-GW033011	Tl-208	Total	-0.19	NA	0.53	NA
PZ-124	SMPZ-124-GW033011	Tm-171	Filtered	190	340	100	170
PZ-124	SMPZ-124-GW033011	Tm-171	Suspended	-0.4 U	84	25	40
PZ-124	SMPZ-124-GW033011	Tm-171	Total	180	NA	110	NA
PZ-124	SMPZ-124-GW033011	U-233/234	Filtered	36.7	0.02	1.6	0.006
PZ-124	SMPZ-124-GW033011	U-233/234	Suspended	0.0202	0.014	0.0083	0.0042
PZ-124	SMPZ-124-GW033011	U-233/234	Total	36.7	NA	1.6	NA
PZ-124	SMPZ-124-GW033011	U-235/236	Filtered	1.77	0.01	0.11	0.008
PZ-124	SMPZ-124-GW033011	U-235/236	Suspended	0.0025 U	0.0068	0.0025	0.0053
PZ-124	SMPZ-124-GW033011	U-235/236	Total	1.77	NA	0.11	NA
PZ-124	SMPZ-124-GW033011	U-238	Filtered	35.6	0.02	1.5	0.006

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-124	SMPZ-124-GW033011	U-238	Suspended	0.0124	0.0055	0.0064	0.0042
PZ-124	SMPZ-124-GW033011	U-238	Total	35.6	NA	1.5	NA
PZ-150	SMPZ-150-GW032211	Ac-227	Filtered	3	5.7	1.7	2.7
PZ-150	SMPZ-150-GW032211	Ac-227	Suspended	0 U	3	0.88	1.5
PZ-150	SMPZ-150-GW032211	Ac-227	Total	3	NA	2	NA
PZ-150	SMPZ-150-GW032211	Ac-228	Filtered	-0.3 U	5.1	1.5	2.4
PZ-150	SMPZ-150-GW032211	Ac-228	Suspended	0 U	2.4	0.69	1.1
PZ-150	SMPZ-150-GW032211	Ac-228	Total	-0.3	NA	1.6	NA
PZ-150	SMPZ-150-GW032211	Ag-108	Filtered	0.005 U R	0.089	0.025	0.041
PZ-150	SMPZ-150-GW032211	Ag-108	Suspended	-0.005 U R	0.036	0.011	0.017
PZ-150	SMPZ-150-GW032211	Ag-108	Total	-0.0001 R	NA	0.028	NA
PZ-150	SMPZ-150-GW032211	Ag-108m	Filtered	0.05 U R	0.95	0.27	0.45
PZ-150	SMPZ-150-GW032211	Ag-108m	Suspended	-0.06 U R	0.39	0.11	0.19
PZ-150	SMPZ-150-GW032211	Ag-108m	Total	-0.002 R	NA	0.3	NA
PZ-150	SMPZ-150-GW032211	Ba-133	Filtered	-6.6 U R	16	4.9	7.8
PZ-150	SMPZ-150-GW032211	Ba-133	Suspended	-0.24 U R	3.1	0.91	1.5
PZ-150	SMPZ-150-GW032211	Ba-133	Total	-6.8 R	NA	5	NA
PZ-150	SMPZ-150-GW032211	Ba-137m	Filtered	0.34 U	1.4	0.4	0.64
PZ-150	SMPZ-150-GW032211	Ba-137m	Suspended	0.04 U	0.44	0.13	0.21
PZ-150	SMPZ-150-GW032211	Ba-137m	Total	0.38	NA	0.42	NA
PZ-150	SMPZ-150-GW032211	Bi-212	Filtered	5.9	11	3.2	4.9
PZ-150	SMPZ-150-GW032211	Bi-212	Suspended	-0.2 U	3.6	1	1.7
PZ-150	SMPZ-150-GW032211	Bi-212	Total	5.7	NA	3.4	NA
PZ-150	SMPZ-150-GW032211	Bi-214	Filtered	2.1	3.4	1.4	1.6
PZ-150	SMPZ-150-GW032211	Bi-214	Suspended	0.64	0.94	0.29	0.44
PZ-150	SMPZ-150-GW032211	Bi-214	Total	2.8	NA	1.4	NA
PZ-150	SMPZ-150-GW032211	Cd-113m	Filtered	-70 U	16000	4700	7700
PZ-150	SMPZ-150-GW032211	Cd-113m	Suspended	-500 U	4100	1200	2000
PZ-150	SMPZ-150-GW032211	Cd-113m	Total	-600	NA	4800	NA
PZ-150	SMPZ-150-GW032211	Cf-249	Filtered	-0.4 U R	6.5	1.9	3.1
PZ-150	SMPZ-150-GW032211	Cf-249	Suspended	0.59 U R	1.9	0.56	0.89
PZ-150	SMPZ-150-GW032211	Cf-249	Total	0.2 R	NA	2	NA
PZ-150	SMPZ-150-GW032211	Co-60	Filtered	0.33 U	1.4	0.4	0.62
PZ-150	SMPZ-150-GW032211	Co-60	Suspended	0.04 U	0.48	0.13	0.21
PZ-150	SMPZ-150-GW032211	Co-60	Total	0.37	NA	0.42	NA
PZ-150	SMPZ-150-GW032211	Cs-134	Filtered	-0.1 U	1.3	0.38	0.62
PZ-150	SMPZ-150-GW032211	Cs-134	Suspended	0.03 U	0.47	0.14	0.22
PZ-150	SMPZ-150-GW032211	Cs-134	Total	-0.08	NA	0.4	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW032211	Cs-137	Filtered	0.36 U	1.4	0.43	0.68
PZ-150	SMPZ-150-GW032211	Cs-137	Suspended	0.04 U	0.47	0.13	0.22
PZ-150	SMPZ-150-GW032211	Cs-137	Total	0.4	NA	0.45	NA
PZ-150	SMPZ-150-GW032211	Eu-152	Filtered	-1 U	4	1.2	1.9
PZ-150	SMPZ-150-GW032211	Eu-152	Suspended	0.004 U	1.1	0.33	0.55
PZ-150	SMPZ-150-GW032211	Eu-152	Total	-1	NA	1.2	NA
PZ-150	SMPZ-150-GW032211	Eu-154	Filtered	-0.1 U	14	3.9	6.4
PZ-150	SMPZ-150-GW032211	Eu-154	Suspended	0.4 U	3.8	1.1	1.7
PZ-150	SMPZ-150-GW032211	Eu-154	Total	0.3	NA	4	NA
PZ-150	SMPZ-150-GW032211	Eu-155	Filtered	-0.7 U	4.1	1.2	2
PZ-150	SMPZ-150-GW032211	Eu-155	Suspended	0.04 U	0.68	0.2	0.32
PZ-150	SMPZ-150-GW032211	Eu-155	Total	-0.7	NA	1.2	NA
PZ-150	SMPZ-150-GW032211	gross_alpha	Filtered	1.63	0.52	0.29	0.27
PZ-150	SMPZ-150-GW032211	gross_alpha	Suspended	0.22	0.4	0.13	0.21
PZ-150	SMPZ-150-GW032211	gross_alpha	Total	1.86	NA	0.31	NA
PZ-150	SMPZ-150-GW032211	gross_beta	Filtered	5.11	2.6	0.997	1.5
PZ-150	SMPZ-150-GW032211	gross_beta	Suspended	0.08 U	0.85	0.24	0.51
PZ-150	SMPZ-150-GW032211	gross_beta	Total	5.2	NA	1	NA
PZ-150	SMPZ-150-GW032211	H-3	Total	22 U	160	47	77
PZ-150	SMPZ-150-GW032211	Ho-166m	Filtered	-0.05 U	2.2	0.64	1
PZ-150	SMPZ-150-GW032211	Ho-166m	Suspended	-0.03 U	0.59	0.17	0.27
PZ-150	SMPZ-150-GW032211	Ho-166m	Total	-0.08	NA	0.66	NA
PZ-150	SMPZ-150-GW032211	K-40	Filtered	4.7 U	23	7.3	11
PZ-150	SMPZ-150-GW032211	K-40	Suspended	-1.7 U	8.2	3.5	3.8
PZ-150	SMPZ-150-GW032211	K-40	Total	3	NA	8.1	NA
PZ-150	SMPZ-150-GW032211	Na-22	Filtered	0.007 U	1.6	0.43	0.71
PZ-150	SMPZ-150-GW032211	Na-22	Suspended	0.004 U	0.57	0.16	0.26
PZ-150	SMPZ-150-GW032211	Na-22	Total	0.01	NA	0.46	NA
PZ-150	SMPZ-150-GW032211	Nb-94	Filtered	0.01 U	1.4	0.41	0.68
PZ-150	SMPZ-150-GW032211	Nb-94	Suspended	0 U	0.59	0.17	0.28
PZ-150	SMPZ-150-GW032211	Nb-94	Total	0.01	NA	0.44	NA
PZ-150	SMPZ-150-GW032211	Np-236	Filtered	0 U	3.5	1	1.7
PZ-150	SMPZ-150-GW032211	Np-236	Suspended	0.1 U	0.72	0.21	0.35
PZ-150	SMPZ-150-GW032211	Np-236	Total	0.1	NA	1.1	NA
PZ-150	SMPZ-150-GW032211	Np-239	Filtered	-0.5 U	9.4	2.8	4.5
PZ-150	SMPZ-150-GW032211	Np-239	Suspended	-0.46 U	2.4	0.71	1.2
PZ-150	SMPZ-150-GW032211	Np-239	Total	-1	NA	2.9	NA
PZ-150	SMPZ-150-GW032211	Pa-231	Filtered	25 U	64	19	31

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW032211	Pa-231	Suspended	0 U	19	5.5	9
PZ-150	SMPZ-150-GW032211	Pa-231	Total	25	NA	20	NA
PZ-150	SMPZ-150-GW032211	Pb-212	Filtered	0.22 U	2.7	0.87	1.3
PZ-150	SMPZ-150-GW032211	Pb-212	Suspended	0.44	0.72	0.29	0.35
PZ-150	SMPZ-150-GW032211	Pb-212	Total	0.66	NA	0.92	NA
PZ-150	SMPZ-150-GW032211	Pb-214	Filtered	-0.3 U	3.6	1.2	1.8
PZ-150	SMPZ-150-GW032211	Pb-214	Suspended	0.05 U	0.94	0.26	0.45
PZ-150	SMPZ-150-GW032211	Pb-214	Total	-0.2	NA	1.2	NA
PZ-150	SMPZ-150-GW032211	Sb-125	Filtered	3.1 U	15	4.5	7.3
PZ-150	SMPZ-150-GW032211	Sb-125	Suspended	0.33 U	3.1	0.92	1.5
PZ-150	SMPZ-150-GW032211	Sb-125	Total	3.4	NA	4.6	NA
PZ-150	SMPZ-150-GW032211	Sn-126	Filtered	0.38 U	1.5	0.44	0.71
PZ-150	SMPZ-150-GW032211	Sn-126	Suspended	0.23	0.44	0.13	0.2
PZ-150	SMPZ-150-GW032211	Sn-126	Total	0.61	NA	0.46	NA
PZ-150	SMPZ-150-GW032211	Sr-90	Filtered	0.043	0.057	0.018	0.032
PZ-150	SMPZ-150-GW032211	Sr-90	Suspended	0.063 U	0.12	0.036	0.067
PZ-150	SMPZ-150-GW032211	Sr-90	Total	0.063	NA	0.036	NA
PZ-150	SMPZ-150-GW032211	Te-125m	Filtered	0.7 U	3.5	1	1.7
PZ-150	SMPZ-150-GW032211	Te-125m	Suspended	0.08 U	0.72	0.21	0.35
PZ-150	SMPZ-150-GW032211	Te-125m	Total	0.8	NA	1.1	NA
PZ-150	SMPZ-150-GW032211	Th-231	Filtered	0.07	0.007	0.014	0.005
PZ-150	SMPZ-150-GW032211	Th-231	Suspended	0.0044 U	0.012	0.0044	0.0092
PZ-150	SMPZ-150-GW032211	Th-231	Total	0.075	NA	0.015	NA
PZ-150	SMPZ-150-GW032211	Th-234	Filtered	3.8 U	24	7.8	12
PZ-150	SMPZ-150-GW032211	Th-234	Suspended	1.1 U	5	1.5	2.4
PZ-150	SMPZ-150-GW032211	Th-234	Total	4.9	NA	8	NA
PZ-150	SMPZ-150-GW032211	Tl-208	Filtered	0.04 U	1.8	0.58	0.84
PZ-150	SMPZ-150-GW032211	Tl-208	Suspended	0.16 U	0.5	0.14	0.23
PZ-150	SMPZ-150-GW032211	Tl-208	Total	0.21	NA	0.6	NA
PZ-150	SMPZ-150-GW032211	Tm-171	Filtered	-30 U	440	130	210
PZ-150	SMPZ-150-GW032211	Tm-171	Suspended	-7 U	66	20	32
PZ-150	SMPZ-150-GW032211	Tm-171	Total	-30	NA	130	NA
PZ-150	SMPZ-150-GW032211	U-233/234	Filtered	1.26	0.02	0.074	0.008
PZ-150	SMPZ-150-GW032211	U-233/234	Suspended	-0.0051 U	0.0096	0.0071	0.0074
PZ-150	SMPZ-150-GW032211	U-233/234	Total	1.25	NA	0.074	NA
PZ-150	SMPZ-150-GW032211	U-235/236	Filtered	0.07	0.007	0.014	0.005
PZ-150	SMPZ-150-GW032211	U-235/236	Suspended	0.0044 U	0.012	0.0044	0.0092
PZ-150	SMPZ-150-GW032211	U-235/236	Total	0.075	NA	0.015	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-150	SMPZ-150-GW032211	U-238	Filtered	1.08	0.014	0.066	0.004
PZ-150	SMPZ-150-GW032211	U-238	Suspended	0.018	0.01	0.011	0.007
PZ-150	SMPZ-150-GW032211	U-238	Total	1.09	NA	0.067	NA
PZ-151	SMPZ-151-GW032811	Ac-227	Filtered	-9.1 L U	14	4.4	7.1
PZ-151	SMPZ-151-GW032811	Ac-227	Suspended	-3.5 U	6.3	1.9	3
PZ-151	SMPZ-151-GW032811	Ac-227	Total	-12.6 L	NA	4.8	NA
PZ-151	SMPZ-151-GW032811	Ac-228	Filtered	-0.2 U	5.3	1.5	2.5
PZ-151	SMPZ-151-GW032811	Ac-228	Suspended	2.1	3.6	1.1	1.6
PZ-151	SMPZ-151-GW032811	Ac-228	Total	1.9	NA	1.9	NA
PZ-151	SMPZ-151-GW032811	Ag-108	Filtered	0.035 U	0.13	0.038	0.06
PZ-151	SMPZ-151-GW032811	Ag-108	Suspended	0.018 U	0.08	0.024	0.038
PZ-151	SMPZ-151-GW032811	Ag-108	Total	0.053	NA	0.044	NA
PZ-151	SMPZ-151-GW032811	Ag-108m	Filtered	0.37 U	1.4	0.4	0.65
PZ-151	SMPZ-151-GW032811	Ag-108m	Suspended	0.2 U	0.86	0.25	0.41
PZ-151	SMPZ-151-GW032811	Ag-108m	Total	0.57	NA	0.48	NA
PZ-151	SMPZ-151-GW032811	Ba-133	Filtered	1 U	16	4.8	7.9
PZ-151	SMPZ-151-GW032811	Ba-133	Suspended	-0.2 U	9.3	2.7	4.5
PZ-151	SMPZ-151-GW032811	Ba-133	Total	0.8	NA	5.5	NA
PZ-151	SMPZ-151-GW032811	Ba-137m	Filtered	-0.34 U	1.8	0.54	0.87
PZ-151	SMPZ-151-GW032811	Ba-137m	Suspended	-0.003 U	1	0.3	0.49
PZ-151	SMPZ-151-GW032811	Ba-137m	Total	-0.34	NA	0.62	NA
PZ-151	SMPZ-151-GW032811	Bi-212	Filtered	-2.2 U	15	7.9	7.2
PZ-151	SMPZ-151-GW032811	Bi-212	Suspended	2.7 U	7.2	2.1	3.3
PZ-151	SMPZ-151-GW032811	Bi-212	Total	0.5	NA	8.2	NA
PZ-151	SMPZ-151-GW032811	Bi-214	Filtered	0.1 U	3.9	1.2	1.9
PZ-151	SMPZ-151-GW032811	Bi-214	Suspended	2.75	2.4	0.98	1.1
PZ-151	SMPZ-151-GW032811	Bi-214	Total	2.9	NA	1.5	NA
PZ-151	SMPZ-151-GW032811	Cd-113m	Filtered	6800 U	18000	5400	8700
PZ-151	SMPZ-151-GW032811	Cd-113m	Suspended	-30 U	11000	3100	5100
PZ-151	SMPZ-151-GW032811	Cd-113m	Total	6800	NA	6200	NA
PZ-151	SMPZ-151-GW032811	Cf-249	Filtered	2.9 U	8.2	2.5	4
PZ-151	SMPZ-151-GW032811	Cf-249	Suspended	0.7 U	4.2	1.2	2
PZ-151	SMPZ-151-GW032811	Cf-249	Total	3.6	NA	2.8	NA
PZ-151	SMPZ-151-GW032811	Co-60	Filtered	-0.003 U	1.5	0.42	0.69
PZ-151	SMPZ-151-GW032811	Co-60	Suspended	0.002 U	1.2	0.33	0.55
PZ-151	SMPZ-151-GW032811	Co-60	Total	-0.0004	NA	0.53	NA
PZ-151	SMPZ-151-GW032811	Cs-134	Filtered	-0.4 U	1.9	0.57	0.92
PZ-151	SMPZ-151-GW032811	Cs-134	Suspended	0.26 U	0.92	0.27	0.43

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-151	SMPZ-151-GW032811	Cs-134	Total	-0.14	NA	0.63	NA
PZ-151	SMPZ-151-GW032811	Cs-137	Filtered	-0.36 U	1.9	0.57	0.92
PZ-151	SMPZ-151-GW032811	Cs-137	Suspended	-0.003 U	1.1	0.31	0.52
PZ-151	SMPZ-151-GW032811	Cs-137	Total	-0.36	NA	0.65	NA
PZ-151	SMPZ-151-GW032811	Eu-152	Filtered	1.2 U	4.6	1.4	2.2
PZ-151	SMPZ-151-GW032811	Eu-152	Suspended	0.51 U	2.2	0.64	1
PZ-151	SMPZ-151-GW032811	Eu-152	Total	1.7	NA	1.5	NA
PZ-151	SMPZ-151-GW032811	Eu-154	Filtered	-0.07 U	17	4.9	8.1
PZ-151	SMPZ-151-GW032811	Eu-154	Suspended	-1.8 U	9.9	2.9	4.6
PZ-151	SMPZ-151-GW032811	Eu-154	Total	-1.9	NA	5.7	NA
PZ-151	SMPZ-151-GW032811	Eu-155	Filtered	-1 U	4.6	1.4	2.2
PZ-151	SMPZ-151-GW032811	Eu-155	Suspended	-0.15 U	1.7	0.49	0.81
PZ-151	SMPZ-151-GW032811	Eu-155	Total	-1.2	NA	1.5	NA
PZ-151	SMPZ-151-GW032811	H-3	Total	14 U	150	44	72
PZ-151	SMPZ-151-GW032811	Ho-166m	Filtered	1.45	2.7	0.82	1.3
PZ-151	SMPZ-151-GW032811	Ho-166m	Suspended	0.31 U	1.7	0.5	0.8
PZ-151	SMPZ-151-GW032811	Ho-166m	Total	1.76	NA	0.96	NA
PZ-151	SMPZ-151-GW032811	K-40	Filtered	23.7	25	9.3	12
PZ-151	SMPZ-151-GW032811	K-40	Suspended	12.9	15	4.7	6.8
PZ-151	SMPZ-151-GW032811	K-40	Total	37	NA	10	NA
PZ-151	SMPZ-151-GW032811	Na-22	Filtered	0.37 U	1.8	0.54	0.86
PZ-151	SMPZ-151-GW032811	Na-22	Suspended	0.009 U	1.3	0.36	0.59
PZ-151	SMPZ-151-GW032811	Na-22	Total	0.38	NA	0.65	NA
PZ-151	SMPZ-151-GW032811	Nb-94	Filtered	-0.05 U	1.6	0.45	0.74
PZ-151	SMPZ-151-GW032811	Nb-94	Suspended	0.02 U	0.9	0.25	0.42
PZ-151	SMPZ-151-GW032811	Nb-94	Total	-0.02	NA	0.52	NA
PZ-151	SMPZ-151-GW032811	Np-236	Filtered	0.06 U	4.2	1.2	2
PZ-151	SMPZ-151-GW032811	Np-236	Suspended	0.54 U	1.5	0.44	0.69
PZ-151	SMPZ-151-GW032811	Np-236	Total	0.6	NA	1.3	NA
PZ-151	SMPZ-151-GW032811	Np-239	Filtered	-3.3 U	10	3.2	5.1
PZ-151	SMPZ-151-GW032811	Np-239	Suspended	-0.5 U	5.3	1.6	2.5
PZ-151	SMPZ-151-GW032811	Np-239	Total	-3.8	NA	3.5	NA
PZ-151	SMPZ-151-GW032811	Pa-231	Filtered	8 U	79	24	38
PZ-151	SMPZ-151-GW032811	Pa-231	Suspended	-2.9 U	34	9.9	16
PZ-151	SMPZ-151-GW032811	Pa-231	Total	5	NA	26	NA
PZ-151	SMPZ-151-GW032811	Pb-212	Filtered	0.4 U	3.7	1.2	1.8
PZ-151	SMPZ-151-GW032811	Pb-212	Suspended	0.63 U	1.5	0.46	0.72
PZ-151	SMPZ-151-GW032811	Pb-212	Total	1	NA	1.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-151	SMPZ-151-GW032811	Pb-214	Filtered	2.7	4.1	1.7	2
PZ-151	SMPZ-151-GW032811	Pb-214	Suspended	0.71 U	2	0.63	0.96
PZ-151	SMPZ-151-GW032811	Pb-214	Total	3.4	NA	1.8	NA
PZ-151	SMPZ-151-GW032811	Sb-125	Filtered	4.7 U	17	5.1	8.2
PZ-151	SMPZ-151-GW032811	Sb-125	Suspended	0.08 U	8.1	2.4	3.9
PZ-151	SMPZ-151-GW032811	Sb-125	Total	4.8	NA	5.6	NA
PZ-151	SMPZ-151-GW032811	Sn-126	Filtered	0.62 U	1.8	0.54	0.85
PZ-151	SMPZ-151-GW032811	Sn-126	Suspended	0.45 U	1.2	0.36	0.56
PZ-151	SMPZ-151-GW032811	Sn-126	Total	1.06	NA	0.65	NA
PZ-151	SMPZ-151-GW032811	Te-125m	Filtered	1.1 U	3.9	1.2	1.9
PZ-151	SMPZ-151-GW032811	Te-125m	Suspended	0.02 U	1.9	0.55	0.9
PZ-151	SMPZ-151-GW032811	Te-125m	Total	1.1	NA	1.3	NA
PZ-151	SMPZ-151-GW032811	Th-234	Filtered	15 U	34	12	17
PZ-151	SMPZ-151-GW032811	Th-234	Suspended	3 U	11	4	5.5
PZ-151	SMPZ-151-GW032811	Th-234	Total	18	NA	12	NA
PZ-151	SMPZ-151-GW032811	Tl-208	Filtered	2.44	2.2	0.85	1
PZ-151	SMPZ-151-GW032811	Tl-208	Suspended	-0.24 U	1.2	0.49	0.59
PZ-151	SMPZ-151-GW032811	Tl-208	Total	2.21	NA	0.98	NA
PZ-151	SMPZ-151-GW032811	Tm-171	Filtered	-310 U	510	160	250
PZ-151	SMPZ-151-GW032811	Tm-171	Suspended	-22 U	130	39	63
PZ-151	SMPZ-151-GW032811	Tm-171	Total	-330 L	NA	160	NA
PZ-160	SMPZ-160-GW032311	Ac-227	Filtered	-4.1 U	8.6	2.6	4.2
PZ-160	SMPZ-160-GW032311	Ac-227	Suspended	0.1 U	5.5	1.6	2.7
PZ-160	SMPZ-160-GW032311	Ac-227	Total	-4	NA	3.1	NA
PZ-160	SMPZ-160-GW032311	Ac-228	Filtered	2.5	3.9	1.2	1.8
PZ-160	SMPZ-160-GW032311	Ac-228	Suspended	2	2.4	0.76	1.1
PZ-160	SMPZ-160-GW032311	Ac-228	Total	4.5	NA	1.4	NA
PZ-160	SMPZ-160-GW032311	Ag-108	Filtered	0.036 U R	0.081	0.025	0.039
PZ-160	SMPZ-160-GW032311	Ag-108	Suspended	-0.004 U R	0.045	0.013	0.022
PZ-160	SMPZ-160-GW032311	Ag-108	Total	0.032 R	NA	0.028	NA
PZ-160	SMPZ-160-GW032311	Ag-108m	Filtered	0.39 U R	0.87	0.26	0.42
PZ-160	SMPZ-160-GW032311	Ag-108m	Suspended	-0.05 U R	0.49	0.14	0.23
PZ-160	SMPZ-160-GW032311	Ag-108m	Total	0.34 R	NA	0.3	NA
PZ-160	SMPZ-160-GW032311	Ba-133	Filtered	-0.03 U R	11	3.3	5.4
PZ-160	SMPZ-160-GW032311	Ba-133	Suspended	-1.4 U R	5.9	1.8	2.8
PZ-160	SMPZ-160-GW032311	Ba-133	Total	-1.4 R	NA	3.7	NA
PZ-160	SMPZ-160-GW032311	Ba-137m	Filtered	0 U	1.3	0.38	0.63
PZ-160	SMPZ-160-GW032311	Ba-137m	Suspended	0 U	0.76	0.22	0.37

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW032311	Ba-137m	Total	0	NA	0.44	NA
PZ-160	SMPZ-160-GW032311	Bi-212	Filtered	-5 U	10	69	5
PZ-160	SMPZ-160-GW032311	Bi-212	Suspended	-0.03 U	6.2	1.8	2.9
PZ-160	SMPZ-160-GW032311	Bi-212	Total	-5	NA	69	NA
PZ-160	SMPZ-160-GW032311	Bi-214	Filtered	0.6 U	2.8	1.1	1.4
PZ-160	SMPZ-160-GW032311	Bi-214	Suspended	-0.7 U	1.9	0.81	0.92
PZ-160	SMPZ-160-GW032311	Bi-214	Total	-0.08	NA	1.4	NA
PZ-160	SMPZ-160-GW032311	Cd-113m	Filtered	200 U	13000	3700	6100
PZ-160	SMPZ-160-GW032311	Cd-113m	Suspended	3100	6000	1800	2900
PZ-160	SMPZ-160-GW032311	Cd-113m	Total	3300	NA	4200	NA
PZ-160	SMPZ-160-GW032311	Cf-249	Filtered	2 U R	4.7	1.4	2.3
PZ-160	SMPZ-160-GW032311	Cf-249	Suspended	0.4 U R	3.1	0.93	1.5
PZ-160	SMPZ-160-GW032311	Cf-249	Total	2.4 R	NA	1.7	NA
PZ-160	SMPZ-160-GW032311	Co-60	Filtered	-0.1 U	1.2	0.33	0.54
PZ-160	SMPZ-160-GW032311	Co-60	Suspended	0.13 U	0.66	0.19	0.3
PZ-160	SMPZ-160-GW032311	Co-60	Total	0.03	NA	0.38	NA
PZ-160	SMPZ-160-GW032311	Cs-134	Filtered	0.17 U	1.2	0.34	0.55
PZ-160	SMPZ-160-GW032311	Cs-134	Suspended	-0.08 U	0.78	0.23	0.38
PZ-160	SMPZ-160-GW032311	Cs-134	Total	0.09	NA	0.41	NA
PZ-160	SMPZ-160-GW032311	Cs-137	Filtered	0 U	1.4	0.4	0.66
PZ-160	SMPZ-160-GW032311	Cs-137	Suspended	0 U	0.81	0.23	0.39
PZ-160	SMPZ-160-GW032311	Cs-137	Total	0	NA	0.47	NA
PZ-160	SMPZ-160-GW032311	Eu-152	Filtered	-0.25 U	3.3	0.97	1.6
PZ-160	SMPZ-160-GW032311	Eu-152	Suspended	0.22 U	1.8	0.52	0.85
PZ-160	SMPZ-160-GW032311	Eu-152	Total	-0.02	NA	1.1	NA
PZ-160	SMPZ-160-GW032311	Eu-154	Filtered	-2.4 U	11	3.1	5
PZ-160	SMPZ-160-GW032311	Eu-154	Suspended	-0.7 U	5.7	1.7	2.7
PZ-160	SMPZ-160-GW032311	Eu-154	Total	-3.1	NA	3.5	NA
PZ-160	SMPZ-160-GW032311	Eu-155	Filtered	-0.008 U	2.9	0.85	1.4
PZ-160	SMPZ-160-GW032311	Eu-155	Suspended	0.16 U	1.2	0.35	0.57
PZ-160	SMPZ-160-GW032311	Eu-155	Total	0.16	NA	0.91	NA
PZ-160	SMPZ-160-GW032311	gross_alpha	Filtered	18.9	0.4	1.1	0.2
PZ-160	SMPZ-160-GW032311	gross_alpha	Suspended	0.68	0.77	0.27	0.4
PZ-160	SMPZ-160-GW032311	gross_alpha	Total	19.6	NA	1.1	NA
PZ-160	SMPZ-160-GW032311	gross_beta	Filtered	11.5	5.3	2.1	3
PZ-160	SMPZ-160-GW032311	gross_beta	Suspended	2.05	0.71	0.3	0.42
PZ-160	SMPZ-160-GW032311	gross_beta	Total	13.6	NA	2.1	NA
PZ-160	SMPZ-160-GW032311	H-3	Total	87 U	180	55	89

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW032311	Ho-166m	Filtered	-0.14 U	1.8	0.52	0.85
PZ-160	SMPZ-160-GW032311	Ho-166m	Suspended	-0.1 U	1.1	0.31	0.51
PZ-160	SMPZ-160-GW032311	Ho-166m	Total	-0.23	NA	0.61	NA
PZ-160	SMPZ-160-GW032311	K-40	Filtered	16.3	15	4.8	7
PZ-160	SMPZ-160-GW032311	K-40	Suspended	-4.9 U	11	4.7	5.1
PZ-160	SMPZ-160-GW032311	K-40	Total	11.4	NA	6.7	NA
PZ-160	SMPZ-160-GW032311	Na-22	Filtered	-0.001 U	1.1	0.31	0.52
PZ-160	SMPZ-160-GW032311	Na-22	Suspended	0.02 U	0.82	0.23	0.38
PZ-160	SMPZ-160-GW032311	Na-22	Total	0.01	NA	0.39	NA
PZ-160	SMPZ-160-GW032311	Nb-94	Filtered	0.39 U	0.94	0.28	0.45
PZ-160	SMPZ-160-GW032311	Nb-94	Suspended	0.0007 U	0.61	0.17	0.29
PZ-160	SMPZ-160-GW032311	Nb-94	Total	0.4	NA	0.33	NA
PZ-160	SMPZ-160-GW032311	Np-236	Filtered	0.003 U	2.5	0.73	1.2
PZ-160	SMPZ-160-GW032311	Np-236	Suspended	0.54 U	1.1	0.34	0.55
PZ-160	SMPZ-160-GW032311	Np-236	Total	0.54	NA	0.81	NA
PZ-160	SMPZ-160-GW032311	Np-239	Filtered	2.4 U	7	2.1	3.4
PZ-160	SMPZ-160-GW032311	Np-239	Suspended	0.8 U	3.8	1.1	1.8
PZ-160	SMPZ-160-GW032311	Np-239	Total	3.1	NA	2.4	NA
PZ-160	SMPZ-160-GW032311	Pa-231	Filtered	-0.2 U	50	15	24
PZ-160	SMPZ-160-GW032311	Pa-231	Suspended	-4.1 U	28	8.4	14
PZ-160	SMPZ-160-GW032311	Pa-231	Total	-4	NA	17	NA
PZ-160	SMPZ-160-GW032311	Pb-212	Filtered	0.47 U	2.3	0.68	1.1
PZ-160	SMPZ-160-GW032311	Pb-212	Suspended	0.35 U	1.2	0.42	0.56
PZ-160	SMPZ-160-GW032311	Pb-212	Total	0.82	NA	0.8	NA
PZ-160	SMPZ-160-GW032311	Pb-214	Filtered	1.18 U	2.5	0.92	1.2
PZ-160	SMPZ-160-GW032311	Pb-214	Suspended	-0.47 U	1.5	0.56	0.73
PZ-160	SMPZ-160-GW032311	Pb-214	Total	0.7	NA	1.1	NA
PZ-160	SMPZ-160-GW032311	Sb-125	Filtered	0.8 U	12	3.4	5.6
PZ-160	SMPZ-160-GW032311	Sb-125	Suspended	-0.8 U	5.5	1.6	2.7
PZ-160	SMPZ-160-GW032311	Sb-125	Total	0.04	NA	3.8	NA
PZ-160	SMPZ-160-GW032311	Sn-126	Filtered	-0.02 U	1.1	0.32	0.53
PZ-160	SMPZ-160-GW032311	Sn-126	Suspended	-0.04 U	0.78	0.23	0.37
PZ-160	SMPZ-160-GW032311	Sn-126	Total	-0.06	NA	0.39	NA
PZ-160	SMPZ-160-GW032311	Sr-90	Filtered	0.015 U	0.048	0.015	0.026
PZ-160	SMPZ-160-GW032311	Sr-90	Suspended	0.029 U	0.058	0.018	0.033
PZ-160	SMPZ-160-GW032311	Sr-90	Total	0.044	NA	0.023	NA
PZ-160	SMPZ-160-GW032311	Te-125m	Filtered	0.2 U	2.7	0.8	1.3
PZ-160	SMPZ-160-GW032311	Te-125m	Suspended	-0.19 U	1.3	0.38	0.62

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-160	SMPZ-160-GW032311	Te-125m	Total	0.01	NA	0.88	NA
PZ-160	SMPZ-160-GW032311	Th-231	Filtered	0.472	0.007	0.041	0.006
PZ-160	SMPZ-160-GW032311	Th-231	Suspended	0.0026 U	0.0071	0.0026	0.0054
PZ-160	SMPZ-160-GW032311	Th-231	Total	0.475	NA	0.041	NA
PZ-160	SMPZ-160-GW032311	Th-234	Filtered	13.2	22	7.6	11
PZ-160	SMPZ-160-GW032311	Th-234	Suspended	4.6	7.2	2.4	3.5
PZ-160	SMPZ-160-GW032311	Th-234	Total	17.8	NA	8	NA
PZ-160	SMPZ-160-GW032311	Tl-208	Filtered	0.7	1.4	0.53	0.67
PZ-160	SMPZ-160-GW032311	Tl-208	Suspended	-0.25 U	0.83	0.38	0.4
PZ-160	SMPZ-160-GW032311	Tl-208	Total	0.45	NA	0.65	NA
PZ-160	SMPZ-160-GW032311	Tm-171	Filtered	90 U	340	100	170
PZ-160	SMPZ-160-GW032311	Tm-171	Suspended	21 U	81	24	39
PZ-160	SMPZ-160-GW032311	Tm-171	Total	110	NA	110	NA
PZ-160	SMPZ-160-GW032311	U-233/234	Filtered	9.45	0.02	0.42	0.005
PZ-160	SMPZ-160-GW032311	U-233/234	Suspended	0.0019 U	0.0057	0.0051	0.0044
PZ-160	SMPZ-160-GW032311	U-233/234	Total	9.46	NA	0.42	NA
PZ-160	SMPZ-160-GW032311	U-235/236	Filtered	0.472	0.007	0.041	0.006
PZ-160	SMPZ-160-GW032311	U-235/236	Suspended	0.0026 U	0.0071	0.0026	0.0054
PZ-160	SMPZ-160-GW032311	U-235/236	Total	0.475	NA	0.041	NA
PZ-160	SMPZ-160-GW032311	U-238	Filtered	9.43	0.02	0.42	0.007
PZ-160	SMPZ-160-GW032311	U-238	Suspended	0.0114	0.014	0.0069	0.0044
PZ-160	SMPZ-160-GW032311	U-238	Total	9.44	NA	0.42	NA
PZ-161	SMPZ-161-GW032411	Ac-227	Filtered	4.4	6	1.9	2.9
PZ-161	SMPZ-161-GW032411	Ac-227	Suspended	-0.37 U	2.9	0.87	1.4
PZ-161	SMPZ-161-GW032411	Ac-227	Total	4	NA	2.1	NA
PZ-161	SMPZ-161-GW032411	Ac-228	Filtered	2.2	3.6	1.1	1.7
PZ-161	SMPZ-161-GW032411	Ac-228	Suspended	1.24	1.6	0.52	0.76
PZ-161	SMPZ-161-GW032411	Ac-228	Total	3.4	NA	1.2	NA
PZ-161	SMPZ-161-GW032411	Ag-108	Filtered	0.03 U R	0.079	0.024	0.038
PZ-161	SMPZ-161-GW032411	Ag-108	Suspended	-0.007 U R	0.039	0.012	0.019
PZ-161	SMPZ-161-GW032411	Ag-108	Total	0.024 R	NA	0.026	NA
PZ-161	SMPZ-161-GW032411	Ag-108m	Filtered	0.33 U R	0.85	0.25	0.4
PZ-161	SMPZ-161-GW032411	Ag-108m	Suspended	-0.07 U R	0.42	0.12	0.2
PZ-161	SMPZ-161-GW032411	Ag-108m	Total	0.26 R	NA	0.28	NA
PZ-161	SMPZ-161-GW032411	Ba-133	Filtered	2.1 U R	11	3.2	5.2
PZ-161	SMPZ-161-GW032411	Ba-133	Suspended	-0.8 U R	4.7	1.4	2.3
PZ-161	SMPZ-161-GW032411	Ba-133	Total	1.3 R	NA	3.5	NA
PZ-161	SMPZ-161-GW032411	Ba-137m	Filtered	0.32 U	1	0.31	0.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW032411	Ba-137m	Suspended	-0.04 U	0.55	0.16	0.26
PZ-161	SMPZ-161-GW032411	Ba-137m	Total	0.28	NA	0.35	NA
PZ-161	SMPZ-161-GW032411	Bi-212	Filtered	-0.7 U	8.5	3.1	4
PZ-161	SMPZ-161-GW032411	Bi-212	Suspended	1.96	3.2	0.99	1.5
PZ-161	SMPZ-161-GW032411	Bi-212	Total	1.3	NA	3.2	NA
PZ-161	SMPZ-161-GW032411	Bi-214	Filtered	2.69	2.6	0.78	1.2
PZ-161	SMPZ-161-GW032411	Bi-214	Suspended	0.25 U	1.4	0.38	0.67
PZ-161	SMPZ-161-GW032411	Bi-214	Total	2.93	NA	0.87	NA
PZ-161	SMPZ-161-GW032411	Cd-113m	Filtered	-1400 U	14000	4100	6700
PZ-161	SMPZ-161-GW032411	Cd-113m	Suspended	1300 U	5400	1600	2600
PZ-161	SMPZ-161-GW032411	Cd-113m	Total	-100	NA	4400	NA
PZ-161	SMPZ-161-GW032411	Cf-249	Filtered	0.2 U R	4.3	1.2	2
PZ-161	SMPZ-161-GW032411	Cf-249	Suspended	-0.47 U R	2.5	0.74	1.2
PZ-161	SMPZ-161-GW032411	Cf-249	Total	-0.3 R	NA	1.4	NA
PZ-161	SMPZ-161-GW032411	Co-60	Filtered	0.14 U	1.1	0.3	0.48
PZ-161	SMPZ-161-GW032411	Co-60	Suspended	-0.1 U	0.59	0.17	0.27
PZ-161	SMPZ-161-GW032411	Co-60	Total	0.04	NA	0.35	NA
PZ-161	SMPZ-161-GW032411	Cs-134	Filtered	0.34 U	1.1	0.33	0.53
PZ-161	SMPZ-161-GW032411	Cs-134	Suspended	-0.02 U	0.92	0.27	0.45
PZ-161	SMPZ-161-GW032411	Cs-134	Total	0.32	NA	0.43	NA
PZ-161	SMPZ-161-GW032411	Cs-137	Filtered	0.34 U	1.1	0.33	0.53
PZ-161	SMPZ-161-GW032411	Cs-137	Suspended	-0.04 U	0.59	0.17	0.28
PZ-161	SMPZ-161-GW032411	Cs-137	Total	0.3	NA	0.37	NA
PZ-161	SMPZ-161-GW032411	Eu-152	Filtered	-0.22 U	2.7	0.78	1.3
PZ-161	SMPZ-161-GW032411	Eu-152	Suspended	-0.38 U	1.3	0.4	0.65
PZ-161	SMPZ-161-GW032411	Eu-152	Total	-0.6	NA	0.88	NA
PZ-161	SMPZ-161-GW032411	Eu-154	Filtered	-2 U	9.4	2.8	4.4
PZ-161	SMPZ-161-GW032411	Eu-154	Suspended	-0.08 U	4.5	1.3	2.1
PZ-161	SMPZ-161-GW032411	Eu-154	Total	-2.1	NA	3	NA
PZ-161	SMPZ-161-GW032411	Eu-155	Filtered	0.08 U	2.8	0.83	1.4
PZ-161	SMPZ-161-GW032411	Eu-155	Suspended	0.22 U	0.92	0.27	0.45
PZ-161	SMPZ-161-GW032411	Eu-155	Total	0.3	NA	0.88	NA
PZ-161	SMPZ-161-GW032411	gross_alpha	Filtered	10.8	0.58	0.74	0.32
PZ-161	SMPZ-161-GW032411	gross_alpha	Suspended	0.29	0.37	0.13	0.19
PZ-161	SMPZ-161-GW032411	gross_alpha	Total	11.1	NA	0.75	NA
PZ-161	SMPZ-161-GW032411	gross_beta	Filtered	9.3	4.3	1.7	2.5
PZ-161	SMPZ-161-GW032411	gross_beta	Suspended	0.85	0.87	0.29	0.52
PZ-161	SMPZ-161-GW032411	gross_beta	Total	10.1	NA	1.7	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW032411	H-3	Total	-72 U	190	53	91
PZ-161	SMPZ-161-GW032411	Ho-166m	Filtered	0.67 U	1.8	0.53	0.84
PZ-161	SMPZ-161-GW032411	Ho-166m	Suspended	0.19 U	0.81	0.24	0.38
PZ-161	SMPZ-161-GW032411	Ho-166m	Total	0.86	NA	0.58	NA
PZ-161	SMPZ-161-GW032411	K-40	Filtered	5.7 U	17	4.3	8.1
PZ-161	SMPZ-161-GW032411	K-40	Suspended	3.3 U	7.6	2.2	3.6
PZ-161	SMPZ-161-GW032411	K-40	Total	9	NA	4.8	NA
PZ-161	SMPZ-161-GW032411	Na-22	Filtered	-0.23 U	1.2	0.36	0.58
PZ-161	SMPZ-161-GW032411	Na-22	Suspended	-0.02 U	0.38	0.1	0.17
PZ-161	SMPZ-161-GW032411	Na-22	Total	-0.25	NA	0.38	NA
PZ-161	SMPZ-161-GW032411	Nb-94	Filtered	0.67 K,S	0.69	0.23	0.32
PZ-161	SMPZ-161-GW032411	Nb-94	Suspended	-0.14 U	0.53	0.16	0.25
PZ-161	SMPZ-161-GW032411	Nb-94	Total	0.53	NA	0.28	NA
PZ-161	SMPZ-161-GW032411	Np-236	Filtered	0.65 U	2.6	0.77	1.2
PZ-161	SMPZ-161-GW032411	Np-236	Suspended	0.13 U	0.77	0.23	0.37
PZ-161	SMPZ-161-GW032411	Np-236	Total	0.78	NA	0.8	NA
PZ-161	SMPZ-161-GW032411	Np-239	Filtered	1.6 U	6.9	2.1	3.4
PZ-161	SMPZ-161-GW032411	Np-239	Suspended	0.42 U	2.9	0.85	1.4
PZ-161	SMPZ-161-GW032411	Np-239	Total	2	NA	2.2	NA
PZ-161	SMPZ-161-GW032411	Pa-231	Filtered	-11 U	53	16	26
PZ-161	SMPZ-161-GW032411	Pa-231	Suspended	4.5 U	19	5.7	9.2
PZ-161	SMPZ-161-GW032411	Pa-231	Total	-7	NA	17	NA
PZ-161	SMPZ-161-GW032411	Pb-212	Filtered	0.88 U	2.4	0.77	1.2
PZ-161	SMPZ-161-GW032411	Pb-212	Suspended	-0.19 U	0.8	0.44	0.39
PZ-161	SMPZ-161-GW032411	Pb-212	Total	0.69	NA	0.88	NA
PZ-161	SMPZ-161-GW032411	Pb-214	Filtered	0.23 U	2.7	0.73	1.3
PZ-161	SMPZ-161-GW032411	Pb-214	Suspended	0.54 B	0.97	0.36	0.46
PZ-161	SMPZ-161-GW032411	Pb-214	Total	0.78	NA	0.81	NA
PZ-161	SMPZ-161-GW032411	Sb-125	Filtered	3.3 U	11	3.4	5.6
PZ-161	SMPZ-161-GW032411	Sb-125	Suspended	0.9 U	4.1	1.2	2
PZ-161	SMPZ-161-GW032411	Sb-125	Total	4.2	NA	3.6	NA
PZ-161	SMPZ-161-GW032411	Sn-126	Filtered	0.79	1.1	0.34	0.51
PZ-161	SMPZ-161-GW032411	Sn-126	Suspended	0.1 U	0.56	0.17	0.27
PZ-161	SMPZ-161-GW032411	Sn-126	Total	0.9	NA	0.38	NA
PZ-161	SMPZ-161-GW032411	Sr-90	Filtered	0.032 U	0.079	0.024	0.045
PZ-161	SMPZ-161-GW032411	Sr-90	Suspended	0.019 U	0.072	0.021	0.041
PZ-161	SMPZ-161-GW032411	Sr-90	Total	0.052	NA	0.032	NA
PZ-161	SMPZ-161-GW032411	Te-125m	Filtered	0.77 U	2.6	0.79	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
PZ-161	SMPZ-161-GW032411	Te-125m	Suspended	0.2 U	0.94	0.28	0.45
PZ-161	SMPZ-161-GW032411	Te-125m	Total	0.97	NA	0.84	NA
PZ-161	SMPZ-161-GW032411	Th-231	Filtered	0.234	0.008	0.028	0.006
PZ-161	SMPZ-161-GW032411	Th-231	Suspended	0.0022 U	0.0059	0.0022	0.0051
PZ-161	SMPZ-161-GW032411	Th-231	Total	0.237	NA	0.028	NA
PZ-161	SMPZ-161-GW032411	Th-234	Filtered	8.6 U	23	8.2	11
PZ-161	SMPZ-161-GW032411	Th-234	Suspended	1.7 U	4.4	1.3	2.1
PZ-161	SMPZ-161-GW032411	Th-234	Total	10.2	NA	8.3	NA
PZ-161	SMPZ-161-GW032411	Tl-208	Filtered	0.9	1.5	0.64	0.72
PZ-161	SMPZ-161-GW032411	Tl-208	Suspended	0.002 U	0.55	0.15	0.26
PZ-161	SMPZ-161-GW032411	Tl-208	Total	0.9	NA	0.66	NA
PZ-161	SMPZ-161-GW032411	Tm-171	Filtered	-10 U	350	100	170
PZ-161	SMPZ-161-GW032411	Tm-171	Suspended	18 U	58	17	28
PZ-161	SMPZ-161-GW032411	Tm-171	Total	8	NA	110	NA
PZ-161	SMPZ-161-GW032411	U-233/234	Filtered	7.49	0.02	0.34	0.007
PZ-161	SMPZ-161-GW032411	U-233/234	Suspended	0.0151	0.0048	0.0066	0.0037
PZ-161	SMPZ-161-GW032411	U-233/234	Total	7.51	NA	0.34	NA
PZ-161	SMPZ-161-GW032411	U-235/236	Filtered	0.234	0.008	0.028	0.006
PZ-161	SMPZ-161-GW032411	U-235/236	Suspended	0.0022 U	0.0059	0.0022	0.0046
PZ-161	SMPZ-161-GW032411	U-235/236	Total	0.237	NA	0.028	NA
PZ-161	SMPZ-161-GW032411	U-238	Filtered	6.03	0.006	0.28	0.005
PZ-161	SMPZ-161-GW032411	U-238	Suspended	0.0126	0.012	0.0063	0.0037
PZ-161	SMPZ-161-GW032411	U-238	Total	6.04	NA	0.28	NA
RD-07	SMRD-7-GW040411	Ac-227	Filtered	-5.9 R U	5.6	1.8	2.7
RD-07	SMRD-7-GW040411	Ac-227	Suspended	-0.67 U	3.1	0.92	1.5
RD-07	SMRD-7-GW040411	Ac-227	Total	-6.6 R	NA	2	NA
RD-07	SMRD-7-GW040411	Ac-228	Filtered	1.6 U	3.6	1.1	1.7
RD-07	SMRD-7-GW040411	Ac-228	Suspended	0.9	1.7	0.52	0.79
RD-07	SMRD-7-GW040411	Ac-228	Total	2.5	NA	1.2	NA
RD-07	SMRD-7-GW040411	Ag-108	Filtered	-0.023 U R	0.086	0.026	0.041
RD-07	SMRD-7-GW040411	Ag-108	Suspended	0.0017 U R	0.031	0.0089	0.015
RD-07	SMRD-7-GW040411	Ag-108	Total	-0.021 R	NA	0.027	NA
RD-07	SMRD-7-GW040411	Ag-108m	Filtered	-0.25 U R	0.92	0.28	0.44
RD-07	SMRD-7-GW040411	Ag-108m	Suspended	0.019 U R	0.33	0.096	0.16
RD-07	SMRD-7-GW040411	Ag-108m	Total	-0.23 R	NA	0.29	NA
RD-07	SMRD-7-GW040411	Ba-133	Filtered	-0.4 U R	11	3.2	5.2
RD-07	SMRD-7-GW040411	Ba-133	Suspended	0.02 U R	3.7	1.1	1.8
RD-07	SMRD-7-GW040411	Ba-133	Total	-0.4 R	NA	3.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-7-GW040411	Ba-137m	Filtered	-0.4 U	1.1	0.34	0.53
RD-07	SMRD-7-GW040411	Ba-137m	Suspended	0.21 U	0.47	0.14	0.22
RD-07	SMRD-7-GW040411	Ba-137m	Total	-0.19	NA	0.36	NA
RD-07	SMRD-7-GW040411	Bi-212	Filtered	0.3 U	8.9	2.5	4.3
RD-07	SMRD-7-GW040411	Bi-212	Suspended	1.7	3.3	1	1.6
RD-07	SMRD-7-GW040411	Bi-212	Total	2	NA	2.7	NA
RD-07	SMRD-7-GW040411	Bi-214	Filtered	0.58 U	2.6	0.95	1.2
RD-07	SMRD-7-GW040411	Bi-214	Suspended	0.77	1.2	0.51	0.6
RD-07	SMRD-7-GW040411	Bi-214	Total	1.4	NA	1.1	NA
RD-07	SMRD-7-GW040411	Cd-113m	Filtered	1300 U	13000	3800	6300
RD-07	SMRD-7-GW040411	Cd-113m	Suspended	0 U	5200	1500	2500
RD-07	SMRD-7-GW040411	Cd-113m	Total	1300	NA	4100	NA
RD-07	SMRD-7-GW040411	Cf-249	Filtered	-1.6 U R	5.7	1.7	2.8
RD-07	SMRD-7-GW040411	Cf-249	Suspended	-0.21 U R	2.4	0.7	1.1
RD-07	SMRD-7-GW040411	Cf-249	Total	-1.8 R	NA	1.8	NA
RD-07	SMRD-7-GW040411	Co-60	Filtered	0.51	1.1	0.33	0.5
RD-07	SMRD-7-GW040411	Co-60	Suspended	-0.01 U	0.59	0.17	0.27
RD-07	SMRD-7-GW040411	Co-60	Total	0.5	NA	0.37	NA
RD-07	SMRD-7-GW040411	Cs-134	Filtered	-0.29 U	1.2	0.37	0.6
RD-07	SMRD-7-GW040411	Cs-134	Suspended	0.5	0.57	0.14	0.27
RD-07	SMRD-7-GW040411	Cs-134	Total	0.21	NA	0.4	NA
RD-07	SMRD-7-GW040411	Cs-137	Filtered	-0.42 U	1.2	0.35	0.56
RD-07	SMRD-7-GW040411	Cs-137	Suspended	0.22 U	0.49	0.15	0.23
RD-07	SMRD-7-GW040411	Cs-137	Total	-0.2	NA	0.38	NA
RD-07	SMRD-7-GW040411	Eu-152	Filtered	-0.03 U	2.9	0.86	1.4
RD-07	SMRD-7-GW040411	Eu-152	Suspended	0.22 U	1.3	0.39	0.64
RD-07	SMRD-7-GW040411	Eu-152	Total	0.19	NA	0.95	NA
RD-07	SMRD-7-GW040411	Eu-154	Filtered	-0.3 U	8.8	2.5	4.1
RD-07	SMRD-7-GW040411	Eu-154	Suspended	0 U	5.9	1.7	2.8
RD-07	SMRD-7-GW040411	Eu-154	Total	-0.3	NA	3	NA
RD-07	SMRD-7-GW040411	Eu-155	Filtered	-0.11 U	2.9	0.87	1.4
RD-07	SMRD-7-GW040411	Eu-155	Suspended	0.15 U	0.96	0.29	0.47
RD-07	SMRD-7-GW040411	Eu-155	Total	0.04	NA	0.92	NA
RD-07	SMRD-7-GW040411	gross_alpha	Filtered	16.5	0.34	0.96	0.17
RD-07	SMRD-7-GW040411	gross_alpha	Suspended	0.46	0.43	0.16	0.22
RD-07	SMRD-7-GW040411	gross_alpha	Total	17	NA	0.98	NA
RD-07	SMRD-7-GW040411	gross_beta	Filtered	3.54	2.7	0.98	1.6
RD-07	SMRD-7-GW040411	gross_beta	Suspended	0.76	0.76	0.25	0.45

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-7-GW040411	gross_beta	Total	4.3	NA	1	NA
RD-07	SMRD-7-GW040411	H-3	Total	19 U	130	38	61
RD-07	SMRD-7-GW040411	Ho-166m	Filtered	-0.2 U	2	0.58	0.95
RD-07	SMRD-7-GW040411	Ho-166m	Suspended	0.4	0.8	0.24	0.37
RD-07	SMRD-7-GW040411	Ho-166m	Total	0.2	NA	0.63	NA
RD-07	SMRD-7-GW040411	K-40	Filtered	-3.8 U	16	5.4	7.8
RD-07	SMRD-7-GW040411	K-40	Suspended	-9 U	9	12	4
RD-07	SMRD-7-GW040411	K-40	Total	-13	NA	14	NA
RD-07	SMRD-7-GW040411	Na-22	Filtered	0.4 U	1.1	0.31	0.49
RD-07	SMRD-7-GW040411	Na-22	Suspended	-0.07 U	0.65	0.19	0.3
RD-07	SMRD-7-GW040411	Na-22	Total	0.33	NA	0.37	NA
RD-07	SMRD-7-GW040411	Nb-94	Filtered	0.14 U	1.1	0.31	0.51
RD-07	SMRD-7-GW040411	Nb-94	Suspended	0.32	0.44	0.14	0.21
RD-07	SMRD-7-GW040411	Nb-94	Total	0.46	NA	0.34	NA
RD-07	SMRD-7-GW040411	Np-236	Filtered	-0.03 U	2.6	0.76	1.3
RD-07	SMRD-7-GW040411	Np-236	Suspended	-0.16 U	0.93	0.28	0.45
RD-07	SMRD-7-GW040411	Np-236	Total	-0.19	NA	0.81	NA
RD-07	SMRD-7-GW040411	Np-239	Filtered	1.2 U	6.7	2	3.3
RD-07	SMRD-7-GW040411	Np-239	Suspended	-1 U	2.9	0.88	1.4
RD-07	SMRD-7-GW040411	Np-239	Total	0.2	NA	2.2	NA
RD-07	SMRD-7-GW040411	Pa-231	Filtered	19 U	48	15	23
RD-07	SMRD-7-GW040411	Pa-231	Suspended	6.6 U	20	5.9	9.4
RD-07	SMRD-7-GW040411	Pa-231	Total	26	NA	16	NA
RD-07	SMRD-7-GW040411	Pb-212	Filtered	1.92	2.3	0.77	1.1
RD-07	SMRD-7-GW040411	Pb-212	Suspended	0.27 U	0.66	0.22	0.32
RD-07	SMRD-7-GW040411	Pb-212	Total	2.18	NA	0.8	NA
RD-07	SMRD-7-GW040411	Pb-214	Filtered	0.98 U	2.4	0.89	1.1
RD-07	SMRD-7-GW040411	Pb-214	Suspended	0.43 U	0.96	0.36	0.46
RD-07	SMRD-7-GW040411	Pb-214	Total	1.42	NA	0.96	NA
RD-07	SMRD-7-GW040411	Sb-125	Filtered	0.2 U	12	3.5	5.7
RD-07	SMRD-7-GW040411	Sb-125	Suspended	0.9 U	4.3	1.3	2.1
RD-07	SMRD-7-GW040411	Sb-125	Total	1.1	NA	3.7	NA
RD-07	SMRD-7-GW040411	Sn-126	Filtered	-0.2 U	1.3	0.38	0.62
RD-07	SMRD-7-GW040411	Sn-126	Suspended	0.09 U	0.59	0.17	0.28
RD-07	SMRD-7-GW040411	Sn-126	Total	-0.11	NA	0.42	NA
RD-07	SMRD-7-GW040411	Sr-90	Filtered	0.057	0.097	0.03	0.055
RD-07	SMRD-7-GW040411	Sr-90	Suspended	-0.033 U	0.066	0.018	0.037
RD-07	SMRD-7-GW040411	Sr-90	Total	0.024	NA	0.035	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-07	SMRD-7-GW040411	Te-125m	Filtered	0.04 U	2.7	0.81	1.3
RD-07	SMRD-7-GW040411	Te-125m	Suspended	0.22 U	1	0.3	0.49
RD-07	SMRD-7-GW040411	Te-125m	Total	0.25	NA	0.86	NA
RD-07	SMRD-7-GW040411	Th-231	Filtered	0.436	0.007	0.038	0.006
RD-07	SMRD-7-GW040411	Th-231	Suspended	0.0052	0.016	0.0045	0.0049
RD-07	SMRD-7-GW040411	Th-231	Total	0.441	NA	0.039	NA
RD-07	SMRD-7-GW040411	Th-234	Filtered	14.9	21	7.7	10
RD-07	SMRD-7-GW040411	Th-234	Suspended	1.3 U	4.9	1.5	2.4
RD-07	SMRD-7-GW040411	Th-234	Total	16.2	NA	7.8	NA
RD-07	SMRD-7-GW040411	Tl-208	Filtered	0.28 U	1.3	0.48	0.64
RD-07	SMRD-7-GW040411	Tl-208	Suspended	0.26	0.53	0.2	0.25
RD-07	SMRD-7-GW040411	Tl-208	Total	0.54	NA	0.52	NA
RD-07	SMRD-7-GW040411	Tm-171	Filtered	-54 U	260	77	130
RD-07	SMRD-7-GW040411	Tm-171	Suspended	5 U	86	25	42
RD-07	SMRD-7-GW040411	Tm-171	Total	-48	NA	81	NA
RD-07	SMRD-7-GW040411	U-233/234	Filtered	11	0.01	0.49	0.004
RD-07	SMRD-7-GW040411	U-233/234	Suspended	0.0181	0.013	0.0078	0.0039
RD-07	SMRD-7-GW040411	U-233/234	Total	11	NA	0.49	NA
RD-07	SMRD-7-GW040411	U-235/236	Filtered	0.435	0.007	0.038	0.005
RD-07	SMRD-7-GW040411	U-235/236	Suspended	0.0052	0.016	0.0045	0.0049
RD-07	SMRD-7-GW040411	U-235/236	Total	0.44	NA	0.038	NA
RD-07	SMRD-7-GW040411	U-238	Filtered	8.76	0.006	0.39	0.004
RD-07	SMRD-7-GW040411	U-238	Suspended	0.028	0.0051	0.0083	0.0039
RD-07	SMRD-7-GW040411	U-238	Total	8.79	NA	0.39	NA
RD-13	SMRD-13-GW032911	Ac-227	Filtered	-6.3 L U	9.9	3	4.8
RD-13	SMRD-13-GW032911	Ac-227	Suspended	-0.66 U	3	0.89	1.4
RD-13	SMRD-13-GW032911	Ac-227	Total	-7 L	NA	3.2	NA
RD-13	SMRD-13-GW032911	Ac-228	Filtered	2.7	3.4	1.1	1.6
RD-13	SMRD-13-GW032911	Ac-228	Suspended	1.59	1.7	0.54	0.77
RD-13	SMRD-13-GW032911	Ac-228	Total	4.3	NA	1.2	NA
RD-13	SMRD-13-GW032911	Ag-108	Filtered	0.034 U R	0.086	0.026	0.041
RD-13	SMRD-13-GW032911	Ag-108	Suspended	0.009 U R	0.038	0.011	0.018
RD-13	SMRD-13-GW032911	Ag-108	Total	0.043 R	NA	0.028	NA
RD-13	SMRD-13-GW032911	Ag-108m	Filtered	0.36 U R	0.92	0.28	0.44
RD-13	SMRD-13-GW032911	Ag-108m	Suspended	0.1 U R	0.41	0.12	0.2
RD-13	SMRD-13-GW032911	Ag-108m	Total	0.46 R	NA	0.3	NA
RD-13	SMRD-13-GW032911	Am-241	Filtered	0.009	0.017	0.0055	0.0052
RD-13	SMRD-13-GW032911	Am-241	Suspended	0.0006 U	0.013	0.003	0.0046

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-13-GW032911	Am-241	Total	0.0096	NA	0.0063	NA
RD-13	SMRD-13-GW032911	Ba-133	Filtered	-0.3 U R	11	3.4	5.5
RD-13	SMRD-13-GW032911	Ba-133	Suspended	-0.3 U R	4.6	1.3	2.2
RD-13	SMRD-13-GW032911	Ba-133	Total	-0.7 R	NA	3.6	NA
RD-13	SMRD-13-GW032911	Ba-137m	Filtered	0.47 U	1.1	0.33	0.52
RD-13	SMRD-13-GW032911	Ba-137m	Suspended	0.12 U	0.48	0.14	0.23
RD-13	SMRD-13-GW032911	Ba-137m	Total	0.59	NA	0.36	NA
RD-13	SMRD-13-GW032911	Bi-212	Filtered	-1.1 U	9.8	4.4	4.7
RD-13	SMRD-13-GW032911	Bi-212	Suspended	-0.9 U	4.3	1.3	2
RD-13	SMRD-13-GW032911	Bi-212	Total	-2.1	NA	4.6	NA
RD-13	SMRD-13-GW032911	Bi-214	Filtered	1.1 U	2.5	0.77	1.2
RD-13	SMRD-13-GW032911	Bi-214	Suspended	1.2	1.1	0.43	0.54
RD-13	SMRD-13-GW032911	Bi-214	Total	2.3	NA	0.88	NA
RD-13	SMRD-13-GW032911	C-14	Total	0.88 U R	2.1	0.66	1
RD-13	SMRD-13-GW032911	Cd-113m	Filtered	-2400 U	14000	4200	6800
RD-13	SMRD-13-GW032911	Cd-113m	Suspended	-500 U	5500	1600	2700
RD-13	SMRD-13-GW032911	Cd-113m	Total	-2900	NA	4500	NA
RD-13	SMRD-13-GW032911	Cf-249	Filtered	0.4 U R	5.7	1.7	2.8
RD-13	SMRD-13-GW032911	Cf-249	Suspended	0.62 U R	2	0.6	0.95
RD-13	SMRD-13-GW032911	Cf-249	Total	1.1 R	NA	1.8	NA
RD-13	SMRD-13-GW032911	Cm-243/244	Filtered	-0.0044 U	0.033	0.0076	0.014
RD-13	SMRD-13-GW032911	Cm-243/244	Suspended	0.0003 U	0.01	0.0021	0.0032
RD-13	SMRD-13-GW032911	Cm-243/244	Total	-0.0041	NA	0.0079	NA
RD-13	SMRD-13-GW032911	Cm-245/246	Filtered	0.0046 U J	0.0063	0.0033	0.0054
RD-13	SMRD-13-GW032911	Cm-245/246	Suspended	0.0149	0.022	0.0076	0.0081
RD-13	SMRD-13-GW032911	Cm-245/246	Total	0.0195 J	NA	0.0083	NA
RD-13	SMRD-13-GW032911	Co-60	Filtered	0 U	1.2	0.33	0.55
RD-13	SMRD-13-GW032911	Co-60	Suspended	-0.08 U	0.6	0.17	0.27
RD-13	SMRD-13-GW032911	Co-60	Total	-0.08	NA	0.38	NA
RD-13	SMRD-13-GW032911	Cs-134	Filtered	0.04 U	1.1	0.33	0.55
RD-13	SMRD-13-GW032911	Cs-134	Suspended	0.06 U	0.42	0.12	0.2
RD-13	SMRD-13-GW032911	Cs-134	Total	0.1	NA	0.35	NA
RD-13	SMRD-13-GW032911	Cs-137	Filtered	0.49 U	1.2	0.35	0.55
RD-13	SMRD-13-GW032911	Cs-137	Suspended	0.13 U	0.51	0.15	0.24
RD-13	SMRD-13-GW032911	Cs-137	Total	0.62	NA	0.38	NA
RD-13	SMRD-13-GW032911	Eu-152	Filtered	0.85 U	3.2	0.95	1.5
RD-13	SMRD-13-GW032911	Eu-152	Suspended	0.21 U	1.4	0.41	0.66
RD-13	SMRD-13-GW032911	Eu-152	Total	1.1	NA	1	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-13-GW032911	Eu-154	Filtered	-1.3 U	9.3	2.7	4.4
RD-13	SMRD-13-GW032911	Eu-154	Suspended	0.2 U	4	1.1	1.9
RD-13	SMRD-13-GW032911	Eu-154	Total	-1.1	NA	3	NA
RD-13	SMRD-13-GW032911	Eu-155	Filtered	0.17 U	2.9	0.87	1.4
RD-13	SMRD-13-GW032911	Eu-155	Suspended	-0.17 U	0.98	0.29	0.48
RD-13	SMRD-13-GW032911	Eu-155	Total	-0.0002	NA	0.92	NA
RD-13	SMRD-13-GW032911	gross_alpha	Filtered	5.68 J	0.58	0.53	0.31
RD-13	SMRD-13-GW032911	gross_alpha	Suspended	0.32	0.43	0.15	0.22
RD-13	SMRD-13-GW032911	gross_alpha	Total	6 J	NA	0.55	NA
RD-13	SMRD-13-GW032911	gross_beta	Filtered	5.09 R	1.2	0.59	0.71
RD-13	SMRD-13-GW032911	gross_beta	Suspended	-0.37 U	0.86	0.23	0.51
RD-13	SMRD-13-GW032911	gross_beta	Total	4.72 R	NA	0.64	NA
RD-13	SMRD-13-GW032911	H-3	Total	-7 U	120	36	59
RD-13	SMRD-13-GW032911	Ho-166m	Filtered	0.32 U	1.9	0.57	0.92
RD-13	SMRD-13-GW032911	Ho-166m	Suspended	-0.12 U	0.91	0.26	0.43
RD-13	SMRD-13-GW032911	Ho-166m	Total	0.2	NA	0.62	NA
RD-13	SMRD-13-GW032911	I-129	Filtered	-0.06 U	0.66	0.2	0.33
RD-13	SMRD-13-GW032911	I-129	Suspended	0.1 U	0.48	0.14	0.24
RD-13	SMRD-13-GW032911	I-129	Total	0.04	NA	0.24	NA
RD-13	SMRD-13-GW032911	K-40	Filtered	1 U	16	4.7	7.4
RD-13	SMRD-13-GW032911	K-40	Suspended	-3.2 U	8.5	3.2	4
RD-13	SMRD-13-GW032911	K-40	Total	-2.2	NA	5.7	NA
RD-13	SMRD-13-GW032911	Na-22	Filtered	-0.005 U	1.1	0.31	0.5
RD-13	SMRD-13-GW032911	Na-22	Suspended	0.008 U	0.61	0.17	0.28
RD-13	SMRD-13-GW032911	Na-22	Total	0.002	NA	0.35	NA
RD-13	SMRD-13-GW032911	Nb-94	Filtered	0.1 U	1	0.3	0.49
RD-13	SMRD-13-GW032911	Nb-94	Suspended	-0.003 U	0.53	0.15	0.25
RD-13	SMRD-13-GW032911	Nb-94	Total	0.1	NA	0.34	NA
RD-13	SMRD-13-GW032911	Np-236	Filtered	0.47 U	2.7	0.8	1.3
RD-13	SMRD-13-GW032911	Np-236	Suspended	-0.17 U	0.92	0.27	0.45
RD-13	SMRD-13-GW032911	Np-236	Total	0.29	NA	0.85	NA
RD-13	SMRD-13-GW032911	Np-237	Filtered	0.0021 U	0.023	0.0046	0.0053
RD-13	SMRD-13-GW032911	Np-237	Suspended	-0.0018 U	0.02	0.0018	0.0053
RD-13	SMRD-13-GW032911	Np-237	Total	0.0003	NA	0.0049	NA
RD-13	SMRD-13-GW032911	Np-239	Filtered	0.7 U	7.2	2.1	3.5
RD-13	SMRD-13-GW032911	Np-239	Suspended	0.16 U	2.8	0.82	1.3
RD-13	SMRD-13-GW032911	Np-239	Total	0.8	NA	2.3	NA
RD-13	SMRD-13-GW032911	Pa-231	Filtered	-8 U	55	16	26

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-13-GW032911	Pa-231	Suspended	8.9	16	4.9	7.6
RD-13	SMRD-13-GW032911	Pa-231	Total	1	NA	17	NA
RD-13	SMRD-13-GW032911	Pb-212	Filtered	0.32 U	2.6	0.93	1.3
RD-13	SMRD-13-GW032911	Pb-212	Suspended	-0.05 U	0.87	0.29	0.42
RD-13	SMRD-13-GW032911	Pb-212	Total	0.28	NA	0.97	NA
RD-13	SMRD-13-GW032911	Pb-214	Filtered	1.5	2.6	1	1.2
RD-13	SMRD-13-GW032911	Pb-214	Suspended	0.49	0.86	0.27	0.41
RD-13	SMRD-13-GW032911	Pb-214	Total	2	NA	1	NA
RD-13	SMRD-13-GW032911	Pu-238	Filtered	0.0023 U	0.021	0.0051	0.0075
RD-13	SMRD-13-GW032911	Pu-238	Suspended	0.0025 U	0.015	0.0039	0.0053
RD-13	SMRD-13-GW032911	Pu-238	Total	0.0048	NA	0.0064	NA
RD-13	SMRD-13-GW032911	Pu-239/240	Filtered	0.0068	0.0061	0.0039	0.0053
RD-13	SMRD-13-GW032911	Pu-239/240	Suspended	-0.0011 U	0.015	0.0029	0.0053
RD-13	SMRD-13-GW032911	Pu-239/240	Total	0.0057	NA	0.0049	NA
RD-13	SMRD-13-GW032911	Pu-242	Filtered	-0.0023 U	0.017	0.0023	0.0053
RD-13	SMRD-13-GW032911	Pu-242	Suspended	-0.0036 U	0.021	0.0044	0.0084
RD-13	SMRD-13-GW032911	Pu-242	Total	-0.0059	NA	0.005	NA
RD-13	SMRD-13-GW032911	Ra-226	Filtered	1.05	0.099	0.092	0.053
RD-13	SMRD-13-GW032911	Ra-226	Suspended	0.038 U	0.22	0.061	0.12
RD-13	SMRD-13-GW032911	Ra-226	Total	1.09	NA	0.11	NA
RD-13	SMRD-13-GW032911	Sb-125	Filtered	-1.1 U	12	3.6	5.9
RD-13	SMRD-13-GW032911	Sb-125	Suspended	-1.9 U	4.5	1.4	2.2
RD-13	SMRD-13-GW032911	Sb-125	Total	-3	NA	3.8	NA
RD-13	SMRD-13-GW032911	Sn-126	Filtered	0 U	1.4	0.4	0.65
RD-13	SMRD-13-GW032911	Sn-126	Suspended	0.36	0.57	0.18	0.27
RD-13	SMRD-13-GW032911	Sn-126	Total	0.36	NA	0.43	NA
RD-13	SMRD-13-GW032911	Sr-90	Filtered	0.054 U	0.12	0.035	0.066
RD-13	SMRD-13-GW032911	Sr-90	Suspended	0.008 U	0.068	0.019	0.04
RD-13	SMRD-13-GW032911	Sr-90	Total	0.062	NA	0.04	NA
RD-13	SMRD-13-GW032911	Tc-99	Filtered	-0.22 U	1.2	0.37	0.61
RD-13	SMRD-13-GW032911	Tc-99	Suspended	-0.17 U	1.5	0.46	0.75
RD-13	SMRD-13-GW032911	Tc-99	Total	-0.39	NA	0.59	NA
RD-13	SMRD-13-GW032911	Te-125m	Filtered	-0.25 U	2.8	0.83	1.4
RD-13	SMRD-13-GW032911	Te-125m	Suspended	-0.44 U	1	0.32	0.51
RD-13	SMRD-13-GW032911	Te-125m	Total	-0.69	NA	0.89	NA
RD-13	SMRD-13-GW032911	Th-231	Filtered	0.123	0.008	0.019	0.006
RD-13	SMRD-13-GW032911	Th-231	Suspended	0.0023 U	0.0063	0.0023	0.0049
RD-13	SMRD-13-GW032911	Th-231	Total	0.125	NA	0.02	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-13	SMRD-13-GW032911	Th-234	Filtered	18.5	22	8	11
RD-13	SMRD-13-GW032911	Th-234	Suspended	0.8 U	4.8	1.4	2.3
RD-13	SMRD-13-GW032911	Th-234	Total	19.3	NA	8.2	NA
RD-13	SMRD-13-GW032911	Tl-208	Filtered	0.38 U	1.4	0.51	0.68
RD-13	SMRD-13-GW032911	Tl-208	Suspended	-0.17 U	0.64	0.42	0.31
RD-13	SMRD-13-GW032911	Tl-208	Total	0.2	NA	0.66	NA
RD-13	SMRD-13-GW032911	Tm-171	Filtered	24 U	310	91	150
RD-13	SMRD-13-GW032911	Tm-171	Suspended	11 U	64	19	31
RD-13	SMRD-13-GW032911	Tm-171	Total	36	NA	93	NA
RD-13	SMRD-13-GW032911	U-233/234	Filtered	2.57	0.02	0.13	0.007
RD-13	SMRD-13-GW032911	U-233/234	Suspended	0 U	0.018	0.0059	0.0068
RD-13	SMRD-13-GW032911	U-233/234	Total	2.57	NA	0.13	NA
RD-13	SMRD-13-GW032911	U-235/236	Filtered	0.123	0.008	0.019	0.006
RD-13	SMRD-13-GW032911	U-235/236	Suspended	0.0023 U	0.0063	0.0023	0.0049
RD-13	SMRD-13-GW032911	U-235/236	Total	0.125	NA	0.02	NA
RD-13	SMRD-13-GW032911	U-238	Filtered	2.06	0.006	0.11	0.005
RD-13	SMRD-13-GW032911	U-238	Suspended	-0.0018 U	0.013	0.004	0.0039
RD-13	SMRD-13-GW032911	U-238	Total	2.06	NA	0.11	NA
RD-14	SMRD-14-GW032111	Ac-227	Filtered	-1.9 U	8.3	2.5	4
RD-14	SMRD-14-GW032111	Ac-227	Suspended	-3.5 L U	4.8	1.5	2.3
RD-14	SMRD-14-GW032111	Ac-227	Total	-5.4	NA	2.9	NA
RD-14	SMRD-14-GW032111	Ac-228	Filtered	2.1	4.1	1.2	1.9
RD-14	SMRD-14-GW032111	Ac-228	Suspended	-0.6 U	2.8	1.2	1.3
RD-14	SMRD-14-GW032111	Ac-228	Total	1.5	NA	1.7	NA
RD-14	SMRD-14-GW032111	Ag-108	Filtered	-0.016 U R	0.11	0.031	0.05
RD-14	SMRD-14-GW032111	Ag-108	Suspended	-0.003 U R	0.049	0.014	0.023
RD-14	SMRD-14-GW032111	Ag-108	Total	-0.019 R	NA	0.034	NA
RD-14	SMRD-14-GW032111	Ag-108m	Filtered	-0.18 U R	1.1	0.33	0.54
RD-14	SMRD-14-GW032111	Ag-108m	Suspended	-0.03 U R	0.52	0.15	0.25
RD-14	SMRD-14-GW032111	Ag-108m	Total	-0.2 R	NA	0.37	NA
RD-14	SMRD-14-GW032111	Ba-133	Filtered	-3.5 U R	12	3.7	5.9
RD-14	SMRD-14-GW032111	Ba-133	Suspended	-1.5 U R	6	1.8	2.9
RD-14	SMRD-14-GW032111	Ba-133	Total	-5 R	NA	4.1	NA
RD-14	SMRD-14-GW032111	Ba-137m	Filtered	0.03 U	1.4	0.39	0.64
RD-14	SMRD-14-GW032111	Ba-137m	Suspended	0.22 U	0.6	0.18	0.29
RD-14	SMRD-14-GW032111	Ba-137m	Total	0.25	NA	0.43	NA
RD-14	SMRD-14-GW032111	Bi-212	Filtered	-0.2 U	10	2.9	4.8
RD-14	SMRD-14-GW032111	Bi-212	Suspended	2.8	5.5	1.7	2.6

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Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW032111	Bi-212	Total	2.6	NA	3.4	NA
RD-14	SMRD-14-GW032111	Bi-214	Filtered	1.86	2.5	0.79	1.2
RD-14	SMRD-14-GW032111	Bi-214	Suspended	0.14 U	1.7	0.63	0.83
RD-14	SMRD-14-GW032111	Bi-214	Total	2	NA	1	NA
RD-14	SMRD-14-GW032111	Cd-113m	Filtered	1300 U	13000	3800	6200
RD-14	SMRD-14-GW032111	Cd-113m	Suspended	0 U	7000	2100	3400
RD-14	SMRD-14-GW032111	Cd-113m	Total	1300	NA	4400	NA
RD-14	SMRD-14-GW032111	Cf-249	Filtered	-0.2 U R	6.8	2	3.2
RD-14	SMRD-14-GW032111	Cf-249	Suspended	1.14 U R	2.6	0.8	1.3
RD-14	SMRD-14-GW032111	Cf-249	Total	1 R	NA	2.1	NA
RD-14	SMRD-14-GW032111	Co-60	Filtered	-0.002 U	1.5	0.42	0.7
RD-14	SMRD-14-GW032111	Co-60	Suspended	-0.005 U	0.65	0.18	0.3
RD-14	SMRD-14-GW032111	Co-60	Total	-0.007	NA	0.46	NA
RD-14	SMRD-14-GW032111	Cs-134	Filtered	0.22 U	1	0.29	0.46
RD-14	SMRD-14-GW032111	Cs-134	Suspended	0.07 U	0.63	0.18	0.3
RD-14	SMRD-14-GW032111	Cs-134	Total	0.29	NA	0.35	NA
RD-14	SMRD-14-GW032111	Cs-137	Filtered	0.03 U	1.4	0.41	0.68
RD-14	SMRD-14-GW032111	Cs-137	Suspended	0.23 U	0.64	0.19	0.3
RD-14	SMRD-14-GW032111	Cs-137	Total	0.26	NA	0.45	NA
RD-14	SMRD-14-GW032111	Eu-152	Filtered	1.36 U	3.2	0.96	1.5
RD-14	SMRD-14-GW032111	Eu-152	Suspended	0 U	1.8	0.53	0.88
RD-14	SMRD-14-GW032111	Eu-152	Total	1.4	NA	1.1	NA
RD-14	SMRD-14-GW032111	Eu-154	Filtered	-1.9 U	13	3.6	5.9
RD-14	SMRD-14-GW032111	Eu-154	Suspended	-1.1 U	6.2	1.8	2.9
RD-14	SMRD-14-GW032111	Eu-154	Total	-3	NA	4.1	NA
RD-14	SMRD-14-GW032111	Eu-155	Filtered	0.53 U	2.9	0.87	1.4
RD-14	SMRD-14-GW032111	Eu-155	Suspended	0.23 U	1.2	0.36	0.58
RD-14	SMRD-14-GW032111	Eu-155	Total	0.75	NA	0.94	NA
RD-14	SMRD-14-GW032111	gross_alpha	Filtered	3.91	0.36	0.39	0.18
RD-14	SMRD-14-GW032111	gross_alpha	Suspended	0.22 U	0.52	0.16	0.28
RD-14	SMRD-14-GW032111	gross_alpha	Total	4.13	NA	0.42	NA
RD-14	SMRD-14-GW032111	gross_beta	Filtered	3.84	2.7	0.99	1.6
RD-14	SMRD-14-GW032111	gross_beta	Suspended	0.52	0.78	0.25	0.46
RD-14	SMRD-14-GW032111	gross_beta	Total	4.4	NA	1	NA
RD-14	SMRD-14-GW032111	H-3	Total	52 U	140	43	69
RD-14	SMRD-14-GW032111	Ho-166m	Filtered	-0.22 U	2.1	0.59	0.96
RD-14	SMRD-14-GW032111	Ho-166m	Suspended	-0.005 U	1.1	0.32	0.52
RD-14	SMRD-14-GW032111	Ho-166m	Total	-0.23	NA	0.67	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW032111	K-40	Filtered	-4.6 U	20	9.1	9.5
RD-14	SMRD-14-GW032111	K-40	Suspended	2.1 U	12	3.2	5.7
RD-14	SMRD-14-GW032111	K-40	Total	-2.5	NA	9.7	NA
RD-14	SMRD-14-GW032111	Na-22	Filtered	-0.29 U	1.6	0.46	0.72
RD-14	SMRD-14-GW032111	Na-22	Suspended	-0.08 U	0.75	0.22	0.35
RD-14	SMRD-14-GW032111	Na-22	Total	-0.37	NA	0.5	NA
RD-14	SMRD-14-GW032111	Nb-94	Filtered	-0.16 U	1.3	0.37	0.6
RD-14	SMRD-14-GW032111	Nb-94	Suspended	-0.06 U	0.7	0.21	0.34
RD-14	SMRD-14-GW032111	Nb-94	Total	-0.23	NA	0.42	NA
RD-14	SMRD-14-GW032111	Np-236	Filtered	-0.8 U	2.5	0.75	1.2
RD-14	SMRD-14-GW032111	Np-236	Suspended	-0.1 U	1.2	0.36	0.59
RD-14	SMRD-14-GW032111	Np-236	Total	-0.9	NA	0.83	NA
RD-14	SMRD-14-GW032111	Np-239	Filtered	-1.7 U	6.7	2	3.2
RD-14	SMRD-14-GW032111	Np-239	Suspended	-1 U	3.9	1.2	1.9
RD-14	SMRD-14-GW032111	Np-239	Total	-2.7	NA	2.3	NA
RD-14	SMRD-14-GW032111	Pa-231	Filtered	7 U	56	16	27
RD-14	SMRD-14-GW032111	Pa-231	Suspended	-3.8 U	28	8.3	13
RD-14	SMRD-14-GW032111	Pa-231	Total	3	NA	18	NA
RD-14	SMRD-14-GW032111	Pb-212	Filtered	1.63	2.1	0.74	1
RD-14	SMRD-14-GW032111	Pb-212	Suspended	0.35 U	1.2	0.4	0.57
RD-14	SMRD-14-GW032111	Pb-212	Total	1.97	NA	0.84	NA
RD-14	SMRD-14-GW032111	Pb-214	Filtered	4.8	2.2	1.1	1
RD-14	SMRD-14-GW032111	Pb-214	Suspended	-0.56 U	1.4	0.66	0.68
RD-14	SMRD-14-GW032111	Pb-214	Total	4.2	NA	1.3	NA
RD-14	SMRD-14-GW032111	Sb-125	Filtered	-2.7 U	12	3.7	6
RD-14	SMRD-14-GW032111	Sb-125	Suspended	0.5 U	5.3	1.6	2.6
RD-14	SMRD-14-GW032111	Sb-125	Total	-2.2	NA	4	NA
RD-14	SMRD-14-GW032111	Sn-126	Filtered	0 U	1.4	0.4	0.65
RD-14	SMRD-14-GW032111	Sn-126	Suspended	0.2 U	0.78	0.23	0.37
RD-14	SMRD-14-GW032111	Sn-126	Total	0.2	NA	0.46	NA
RD-14	SMRD-14-GW032111	Sr-90	Filtered	0.086	0.07	0.023	0.04
RD-14	SMRD-14-GW032111	Sr-90	Suspended	-0.013 U	0.11	0.03	0.061
RD-14	SMRD-14-GW032111	Sr-90	Total	-0.013	NA	0.03	NA
RD-14	SMRD-14-GW032111	Te-125m	Filtered	-0.63 U	2.9	0.85	1.4
RD-14	SMRD-14-GW032111	Te-125m	Suspended	0.12 U	1.2	0.36	0.59
RD-14	SMRD-14-GW032111	Te-125m	Total	-0.51	NA	0.93	NA
RD-14	SMRD-14-GW032111	Th-231	Filtered	0.116	0.007	0.019	0.006
RD-14	SMRD-14-GW032111	Th-231	Suspended	0.001 U	0.032	0.0061	0.0099

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-14	SMRD-14-GW032111	Th-231	Total	0.117	NA	0.02	NA
RD-14	SMRD-14-GW032111	Th-234	Filtered	11.2	22	7.3	11
RD-14	SMRD-14-GW032111	Th-234	Suspended	3 U	9	3.2	4.4
RD-14	SMRD-14-GW032111	Th-234	Total	14.1	NA	8	NA
RD-14	SMRD-14-GW032111	Tl-208	Filtered	0.11 U	1.6	0.43	0.76
RD-14	SMRD-14-GW032111	Tl-208	Suspended	0.0009 U	0.77	0.26	0.37
RD-14	SMRD-14-GW032111	Tl-208	Total	0.11	NA	0.51	NA
RD-14	SMRD-14-GW032111	Tm-171	Filtered	28 U	310	92	150
RD-14	SMRD-14-GW032111	Tm-171	Suspended	0 U	110	34	56
RD-14	SMRD-14-GW032111	Tm-171	Total	28	NA	98	NA
RD-14	SMRD-14-GW032111	U-233/234	Filtered	3.11	0.01	0.15	0.005
RD-14	SMRD-14-GW032111	U-233/234	Suspended	0.011	0.01	0.011	0.008
RD-14	SMRD-14-GW032111	U-233/234	Total	3.12	NA	0.16	NA
RD-14	SMRD-14-GW032111	U-235/236	Filtered	0.116	0.007	0.019	0.006
RD-14	SMRD-14-GW032111	U-235/236	Suspended	0.001 U	0.032	0.0061	0.0099
RD-14	SMRD-14-GW032111	U-235/236	Total	0.117	NA	0.02	NA
RD-14	SMRD-14-GW032111	U-238	Filtered	2.72	0.01	0.14	0.005
RD-14	SMRD-14-GW032111	U-238	Suspended	0.025	0.032	0.014	0.011
RD-14	SMRD-14-GW032111	U-238	Total	2.74	NA	0.14	NA
RD-15	SMRD-15-GW032911	Ac-227	Filtered	-9.1 L U	10	3.1	4.9
RD-15	SMRD-15-GW032911	Ac-227	Suspended	0 U	5.2	1.6	2.6
RD-15	SMRD-15-GW032911	Ac-227	Total	-9.1 L	NA	3.5	NA
RD-15	SMRD-15-GW032911	Ac-228	Filtered	2	3.5	1.1	1.7
RD-15	SMRD-15-GW032911	Ac-228	Suspended	-0.15 U	2.9	0.82	1.4
RD-15	SMRD-15-GW032911	Ac-228	Total	1.9	NA	1.4	NA
RD-15	SMRD-15-GW032911	Ag-108	Filtered	0.022 U R	0.081	0.024	0.039
RD-15	SMRD-15-GW032911	Ag-108	Suspended	-0.005 U R	0.053	0.016	0.025
RD-15	SMRD-15-GW032911	Ag-108	Total	0.017 R	NA	0.029	NA
RD-15	SMRD-15-GW032911	Ag-108m	Filtered	0.24 U R	0.87	0.26	0.42
RD-15	SMRD-15-GW032911	Ag-108m	Suspended	-0.05 U R	0.57	0.17	0.27
RD-15	SMRD-15-GW032911	Ag-108m	Total	0.19 R	NA	0.31	NA
RD-15	SMRD-15-GW032911	Ba-133	Filtered	-5.3 U R	10	3.1	5
RD-15	SMRD-15-GW032911	Ba-133	Suspended	0.4 U R	6	1.8	2.9
RD-15	SMRD-15-GW032911	Ba-133	Total	-4.9 R	NA	3.6	NA
RD-15	SMRD-15-GW032911	Ba-137m	Filtered	0 U	1.1	0.32	0.53
RD-15	SMRD-15-GW032911	Ba-137m	Suspended	0.06 U	0.54	0.16	0.26
RD-15	SMRD-15-GW032911	Ba-137m	Total	0.06	NA	0.36	NA
RD-15	SMRD-15-GW032911	Bi-212	Filtered	0.6 U	9.5	2.6	4.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW032911	Bi-212	Suspended	2 U	5.6	1.7	2.7
RD-15	SMRD-15-GW032911	Bi-212	Total	2.6	NA	3.1	NA
RD-15	SMRD-15-GW032911	Bi-214	Filtered	-0.244 U	2.6	0.998	1.2
RD-15	SMRD-15-GW032911	Bi-214	Suspended	1.43	1.6	0.62	0.77
RD-15	SMRD-15-GW032911	Bi-214	Total	1.2	NA	1.2	NA
RD-15	SMRD-15-GW032911	Cd-113m	Filtered	60 U	9900	2900	4700
RD-15	SMRD-15-GW032911	Cd-113m	Suspended	1300 U	6600	2000	3200
RD-15	SMRD-15-GW032911	Cd-113m	Total	1400	NA	3500	NA
RD-15	SMRD-15-GW032911	Cf-249	Filtered	-0.008 U R	4.3	1.2	2.1
RD-15	SMRD-15-GW032911	Cf-249	Suspended	0.19 U R	2.9	0.86	1.4
RD-15	SMRD-15-GW032911	Cf-249	Total	0.2 R	NA	1.5	NA
RD-15	SMRD-15-GW032911	Co-60	Filtered	0.23 U	0.99	0.29	0.45
RD-15	SMRD-15-GW032911	Co-60	Suspended	0.05 U	0.72	0.21	0.34
RD-15	SMRD-15-GW032911	Co-60	Total	0.28	NA	0.35	NA
RD-15	SMRD-15-GW032911	Cs-134	Filtered	0.46 SK	0.91	0.28	0.43
RD-15	SMRD-15-GW032911	Cs-134	Suspended	0.15 U	0.68	0.2	0.33
RD-15	SMRD-15-GW032911	Cs-134	Total	0.61 SK	NA	0.34	NA
RD-15	SMRD-15-GW032911	Cs-137	Filtered	0 U	1.2	0.34	0.56
RD-15	SMRD-15-GW032911	Cs-137	Suspended	0.06 U	0.57	0.17	0.27
RD-15	SMRD-15-GW032911	Cs-137	Total	0.06	NA	0.38	NA
RD-15	SMRD-15-GW032911	Eu-152	Filtered	0.75 U	3	0.88	1.4
RD-15	SMRD-15-GW032911	Eu-152	Suspended	-0.28 U	1.8	0.52	0.85
RD-15	SMRD-15-GW032911	Eu-152	Total	0.5	NA	1	NA
RD-15	SMRD-15-GW032911	Eu-154	Filtered	-2.4 U	10	3	4.9
RD-15	SMRD-15-GW032911	Eu-154	Suspended	0.006 U	6.1	1.8	2.9
RD-15	SMRD-15-GW032911	Eu-154	Total	-2.4	NA	3.5	NA
RD-15	SMRD-15-GW032911	Eu-155	Filtered	-0.16 U	2.6	0.77	1.3
RD-15	SMRD-15-GW032911	Eu-155	Suspended	0.34 U	1.3	0.4	0.65
RD-15	SMRD-15-GW032911	Eu-155	Total	0.19	NA	0.86	NA
RD-15	SMRD-15-GW032911	gross_alpha	Filtered	9.72	0.59	0.72	0.32
RD-15	SMRD-15-GW032911	gross_alpha	Suspended	0.59	0.96	0.31	0.52
RD-15	SMRD-15-GW032911	gross_alpha	Total	10.3	NA	0.79	NA
RD-15	SMRD-15-GW032911	gross_beta	Filtered	6.11	1.8	0.78	1
RD-15	SMRD-15-GW032911	gross_beta	Suspended	-0.02 U	0.81	0.23	0.48
RD-15	SMRD-15-GW032911	gross_beta	Total	6.09	NA	0.81	NA
RD-15	SMRD-15-GW032911	H-3	Total	3 U	140	41	67
RD-15	SMRD-15-GW032911	Ho-166m	Filtered	0.42 U	1.8	0.52	0.84
RD-15	SMRD-15-GW032911	Ho-166m	Suspended	-0.15 U	1.2	0.35	0.58

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW032911	Ho-166m	Total	0.27	NA	0.63	NA
RD-15	SMRD-15-GW032911	K-40	Filtered	5 U	16	5.7	7.6
RD-15	SMRD-15-GW032911	K-40	Suspended	-3.2 U	12	4.2	5.8
RD-15	SMRD-15-GW032911	K-40	Total	1.8	NA	7.1	NA
RD-15	SMRD-15-GW032911	Na-22	Filtered	-0.02 U	1.2	0.34	0.55
RD-15	SMRD-15-GW032911	Na-22	Suspended	-0.07 U	0.69	0.2	0.32
RD-15	SMRD-15-GW032911	Na-22	Total	-0.09	NA	0.39	NA
RD-15	SMRD-15-GW032911	Nb-94	Filtered	-0.17 U	1.1	0.32	0.52
RD-15	SMRD-15-GW032911	Nb-94	Suspended	-0.002 U	0.65	0.19	0.31
RD-15	SMRD-15-GW032911	Nb-94	Total	-0.17	NA	0.37	NA
RD-15	SMRD-15-GW032911	Np-236	Filtered	0.75 U	2.1	0.63	1
RD-15	SMRD-15-GW032911	Np-236	Suspended	0 U	1.2	0.37	0.6
RD-15	SMRD-15-GW032911	Np-236	Total	0.75	NA	0.73	NA
RD-15	SMRD-15-GW032911	Np-239	Filtered	0.2 U	7.4	2.2	3.6
RD-15	SMRD-15-GW032911	Np-239	Suspended	-0.34 U	2.7	0.81	1.3
RD-15	SMRD-15-GW032911	Np-239	Total	-0.1	NA	2.3	NA
RD-15	SMRD-15-GW032911	Pa-231	Filtered	0.9 U	46	13	22
RD-15	SMRD-15-GW032911	Pa-231	Suspended	6.2 U	27	8.1	13
RD-15	SMRD-15-GW032911	Pa-231	Total	7	NA	16	NA
RD-15	SMRD-15-GW032911	Pb-212	Filtered	0.46 U	2.3	0.7	1.1
RD-15	SMRD-15-GW032911	Pb-212	Suspended	0.29 U	1.2	0.43	0.56
RD-15	SMRD-15-GW032911	Pb-212	Total	0.75	NA	0.82	NA
RD-15	SMRD-15-GW032911	Pb-214	Filtered	-0.5 U	2.7	1	1.3
RD-15	SMRD-15-GW032911	Pb-214	Suspended	0.8	1.2	0.41	0.58
RD-15	SMRD-15-GW032911	Pb-214	Total	0.3	NA	1.1	NA
RD-15	SMRD-15-GW032911	Sb-125	Filtered	0 U	12	3.6	5.9
RD-15	SMRD-15-GW032911	Sb-125	Suspended	0 U	5.8	1.7	2.8
RD-15	SMRD-15-GW032911	Sb-125	Total	0	NA	4	NA
RD-15	SMRD-15-GW032911	Sn-126	Filtered	0.56	1.1	0.33	0.51
RD-15	SMRD-15-GW032911	Sn-126	Suspended	0.18 U	0.84	0.25	0.41
RD-15	SMRD-15-GW032911	Sn-126	Total	0.74	NA	0.41	NA
RD-15	SMRD-15-GW032911	Sr-90	Filtered	0.071 U	0.18	0.055	0.099
RD-15	SMRD-15-GW032911	Sr-90	Suspended	-0.03 U	0.059	0.016	0.033
RD-15	SMRD-15-GW032911	Sr-90	Total	0.04	NA	0.058	NA
RD-15	SMRD-15-GW032911	Te-125m	Filtered	0 U	2.8	0.83	1.4
RD-15	SMRD-15-GW032911	Te-125m	Suspended	0 U	1.3	0.4	0.65
RD-15	SMRD-15-GW032911	Te-125m	Total	0	NA	0.92	NA
RD-15	SMRD-15-GW032911	Th-231	Filtered	0.221	0.007	0.025	0.006

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-15	SMRD-15-GW032911	Th-231	Suspended	0.0023 U	0.0061	0.0023	0.0047
RD-15	SMRD-15-GW032911	Th-231	Total	0.223	NA	0.025	NA
RD-15	SMRD-15-GW032911	Th-234	Filtered	4.8 U	20	6.4	9.8
RD-15	SMRD-15-GW032911	Th-234	Suspended	-0.1 U	8.2	2.3	4
RD-15	SMRD-15-GW032911	Th-234	Total	4.7	NA	6.8	NA
RD-15	SMRD-15-GW032911	Tl-208	Filtered	0.77	1.3	0.44	0.62
RD-15	SMRD-15-GW032911	Tl-208	Suspended	0.28 U	0.76	0.27	0.36
RD-15	SMRD-15-GW032911	Tl-208	Total	1.05	NA	0.52	NA
RD-15	SMRD-15-GW032911	Tm-171	Filtered	220	340	100	160
RD-15	SMRD-15-GW032911	Tm-171	Suspended	24 U	120	35	57
RD-15	SMRD-15-GW032911	Tm-171	Total	240	NA	110	NA
RD-15	SMRD-15-GW032911	U-233/234	Filtered	4.11	0.02	0.2	0.007
RD-15	SMRD-15-GW032911	U-233/234	Suspended	0.0245	0.012	0.0083	0.0038
RD-15	SMRD-15-GW032911	U-233/234	Total	4.13	NA	0.2	NA
RD-15	SMRD-15-GW032911	U-235/236	Filtered	0.221	0.007	0.025	0.006
RD-15	SMRD-15-GW032911	U-235/236	Suspended	0.0023 U	0.0061	0.0023	0.0047
RD-15	SMRD-15-GW032911	U-235/236	Total	0.223	NA	0.025	NA
RD-15	SMRD-15-GW032911	U-238	Filtered	4.03	0.005	0.19	0.005
RD-15	SMRD-15-GW032911	U-238	Suspended	0.0326	0.012	0.009	0.0038
RD-15	SMRD-15-GW032911	U-238	Total	4.06	NA	0.19	NA
RD-16	SMRD-16-GW042011	Ac-227	Filtered	-5.4 U	9.6	2.9	4.7
RD-16	SMRD-16-GW042011	Ac-227	Suspended	0 U	5.5	1.6	2.7
RD-16	SMRD-16-GW042011	Ac-227	Total	-5.4	NA	3.3	NA
RD-16	SMRD-16-GW042011	Ac-228	Filtered	6.8	3.6	1.2	1.7
RD-16	SMRD-16-GW042011	Ac-228	Suspended	-0.03 U	2.3	0.64	1
RD-16	SMRD-16-GW042011	Ac-228	Total	6.7	NA	1.3	NA
RD-16	SMRD-16-GW042011	Ag-108	Filtered	-0.032 U R	0.094	0.028	0.045
RD-16	SMRD-16-GW042011	Ag-108	Suspended	0.017 U R	0.044	0.013	0.021
RD-16	SMRD-16-GW042011	Ag-108	Total	-0.016 R	NA	0.031	NA
RD-16	SMRD-16-GW042011	Ag-108m	Filtered	-0.35 U R	1	0.3	0.49
RD-16	SMRD-16-GW042011	Ag-108m	Suspended	0.18 U R	0.48	0.14	0.22
RD-16	SMRD-16-GW042011	Ag-108m	Total	-0.17 R	NA	0.34	NA
RD-16	SMRD-16-GW042011	Ba-133	Filtered	0.4 U R	9	2.6	4.3
RD-16	SMRD-16-GW042011	Ba-133	Suspended	-1.1 U R	5.7	1.7	2.7
RD-16	SMRD-16-GW042011	Ba-133	Total	-0.7 R	NA	3.1	NA
RD-16	SMRD-16-GW042011	Ba-137m	Filtered	0.27 U	1.1	0.32	0.51
RD-16	SMRD-16-GW042011	Ba-137m	Suspended	-0.02 U	0.67	0.19	0.31
RD-16	SMRD-16-GW042011	Ba-137m	Total	0.25	NA	0.37	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW042011	Bi-212	Filtered	5.2	7.9	2.5	3.7
RD-16	SMRD-16-GW042011	Bi-212	Suspended	0.9 U	4.9	1.4	2.3
RD-16	SMRD-16-GW042011	Bi-212	Total	6.1	NA	2.8	NA
RD-16	SMRD-16-GW042011	Bi-214	Filtered	1.3	2.6	0.86	1.2
RD-16	SMRD-16-GW042011	Bi-214	Suspended	0.88	1.4	0.48	0.65
RD-16	SMRD-16-GW042011	Bi-214	Total	2.18	NA	0.99	NA
RD-16	SMRD-16-GW042011	Cd-113m	Filtered	-2000 U	14000	4100	6700
RD-16	SMRD-16-GW042011	Cd-113m	Suspended	500 U	6200	1800	3000
RD-16	SMRD-16-GW042011	Cd-113m	Total	-1500	NA	4500	NA
RD-16	SMRD-16-GW042011	Cf-249	Filtered	-0.04 U R	5.1	1.5	2.4
RD-16	SMRD-16-GW042011	Cf-249	Suspended	-0.18 U R	2.9	0.83	1.4
RD-16	SMRD-16-GW042011	Cf-249	Total	-0.2 R	NA	1.7	NA
RD-16	SMRD-16-GW042011	Co-60	Filtered	-0.14 U	1.2	0.35	0.56
RD-16	SMRD-16-GW042011	Co-60	Suspended	-0.06 U	0.79	0.22	0.36
RD-16	SMRD-16-GW042011	Co-60	Total	-0.2	NA	0.41	NA
RD-16	SMRD-16-GW042011	Cs-134	Filtered	-0.21 U	1.1	0.34	0.55
RD-16	SMRD-16-GW042011	Cs-134	Suspended	-0.24 U	0.73	0.22	0.35
RD-16	SMRD-16-GW042011	Cs-134	Total	-0.44	NA	0.4	NA
RD-16	SMRD-16-GW042011	Cs-137	Filtered	0.28 U	1.1	0.34	0.54
RD-16	SMRD-16-GW042011	Cs-137	Suspended	-0.02 U	0.71	0.2	0.33
RD-16	SMRD-16-GW042011	Cs-137	Total	0.26	NA	0.39	NA
RD-16	SMRD-16-GW042011	Eu-152	Filtered	0.02 U	3.2	0.93	1.5
RD-16	SMRD-16-GW042011	Eu-152	Suspended	-0.65 U	1.7	0.5	0.79
RD-16	SMRD-16-GW042011	Eu-152	Total	-0.6	NA	1.1	NA
RD-16	SMRD-16-GW042011	Eu-154	Filtered	3.2 U	9.2	2.8	4.4
RD-16	SMRD-16-GW042011	Eu-154	Suspended	2.3	5.1	1.6	2.3
RD-16	SMRD-16-GW042011	Eu-154	Total	5.5	NA	3.2	NA
RD-16	SMRD-16-GW042011	Eu-155	Filtered	-0.36 U	2.8	0.84	1.4
RD-16	SMRD-16-GW042011	Eu-155	Suspended	0.06 U	1.1	0.31	0.51
RD-16	SMRD-16-GW042011	Eu-155	Total	-0.3	NA	0.9	NA
RD-16	SMRD-16-GW042011	gross_alpha	Filtered	1.75	0.48	0.29	0.24
RD-16	SMRD-16-GW042011	gross_alpha	Suspended	0.48	0.6	0.2	0.32
RD-16	SMRD-16-GW042011	gross_alpha	Total	2.23	NA	0.36	NA
RD-16	SMRD-16-GW042011	gross_beta	Filtered	3.4	2.9	0.98	1.7
RD-16	SMRD-16-GW042011	gross_beta	Suspended	0.2 U	0.72	0.21	0.42
RD-16	SMRD-16-GW042011	gross_beta	Total	3.6	NA	1	NA
RD-16	SMRD-16-GW042011	H-3	Total	-20 U	160	46	77
RD-16	SMRD-16-GW042011	Ho-166m	Filtered	0.08 U	1.7	0.5	0.81

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW042011	Ho-166m	Suspended	-0.03 U	0.95	0.27	0.44
RD-16	SMRD-16-GW042011	Ho-166m	Total	0.05	NA	0.56	NA
RD-16	SMRD-16-GW042011	K-40	Filtered	-0.2 U	18	4.5	8.3
RD-16	SMRD-16-GW042011	K-40	Suspended	-3.2 U	12	5.8	5.5
RD-16	SMRD-16-GW042011	K-40	Total	-3.4	NA	7.3	NA
RD-16	SMRD-16-GW042011	Na-22	Filtered	-0.23 U	1.3	0.38	0.6
RD-16	SMRD-16-GW042011	Na-22	Suspended	-0.06 U	0.67	0.18	0.3
RD-16	SMRD-16-GW042011	Na-22	Total	-0.29	NA	0.42	NA
RD-16	SMRD-16-GW042011	Nb-94	Filtered	0 U	1.1	0.32	0.52
RD-16	SMRD-16-GW042011	Nb-94	Suspended	0.004 U	0.66	0.19	0.31
RD-16	SMRD-16-GW042011	Nb-94	Total	0.004	NA	0.37	NA
RD-16	SMRD-16-GW042011	Np-236	Filtered	0 U	2.6	0.76	1.2
RD-16	SMRD-16-GW042011	Np-236	Suspended	0.17 U	0.98	0.29	0.47
RD-16	SMRD-16-GW042011	Np-236	Total	0.17	NA	0.81	NA
RD-16	SMRD-16-GW042011	Np-239	Filtered	-0.2 U	6.4	1.9	3.1
RD-16	SMRD-16-GW042011	Np-239	Suspended	-0.95 U	3.2	0.96	1.5
RD-16	SMRD-16-GW042011	Np-239	Total	-1.2	NA	2.1	NA
RD-16	SMRD-16-GW042011	Pa-231	Filtered	0.2 U	48	14	23
RD-16	SMRD-16-GW042011	Pa-231	Suspended	-5.6 U	28	8.4	14
RD-16	SMRD-16-GW042011	Pa-231	Total	-5	NA	16	NA
RD-16	SMRD-16-GW042011	Pb-212	Filtered	0.32 U	2.4	0.81	1.2
RD-16	SMRD-16-GW042011	Pb-212	Suspended	0.85	1	0.37	0.5
RD-16	SMRD-16-GW042011	Pb-212	Total	1.17	NA	0.89	NA
RD-16	SMRD-16-GW042011	Pb-214	Filtered	1.7	2.6	1	1.3
RD-16	SMRD-16-GW042011	Pb-214	Suspended	0.24 U	1.5	0.39	0.7
RD-16	SMRD-16-GW042011	Pb-214	Total	2	NA	1.1	NA
RD-16	SMRD-16-GW042011	Sb-125	Filtered	2.6 U	11	3.2	5.2
RD-16	SMRD-16-GW042011	Sb-125	Suspended	0.2 U	5.3	1.6	2.6
RD-16	SMRD-16-GW042011	Sb-125	Total	2.7	NA	3.6	NA
RD-16	SMRD-16-GW042011	Sn-126	Filtered	-0.28 U	1.3	0.38	0.62
RD-16	SMRD-16-GW042011	Sn-126	Suspended	0.21 U	0.76	0.23	0.36
RD-16	SMRD-16-GW042011	Sn-126	Total	-0.07	NA	0.44	NA
RD-16	SMRD-16-GW042011	Sr-90	Filtered	0.03 U	0.11	0.032	0.062
RD-16	SMRD-16-GW042011	Sr-90	Suspended	-0.006 U	0.061	0.018	0.033
RD-16	SMRD-16-GW042011	Sr-90	Total	0.098	NA	0.045	NA
RD-16	SMRD-16-GW042011	Te-125m	Filtered	0.59 U	2.5	0.75	1.2
RD-16	SMRD-16-GW042011	Te-125m	Suspended	0.04 U	1.2	0.36	0.59
RD-16	SMRD-16-GW042011	Te-125m	Total	0.63	NA	0.83	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-16	SMRD-16-GW042011	Th-231	Filtered	0.0386	0.0065	0.0098	0.005
RD-16	SMRD-16-GW042011	Th-231	Suspended	0.0024 U	0.0066	0.0024	0.0051
RD-16	SMRD-16-GW042011	Th-231	Total	0.041	NA	0.01	NA
RD-16	SMRD-16-GW042011	Th-234	Filtered	-4.8 U	20	7.5	9.8
RD-16	SMRD-16-GW042011	Th-234	Suspended	5.3	6.4	2.1	3.1
RD-16	SMRD-16-GW042011	Th-234	Total	0.5	NA	7.8	NA
RD-16	SMRD-16-GW042011	Tl-208	Filtered	0.94	1.3	0.53	0.65
RD-16	SMRD-16-GW042011	Tl-208	Suspended	-0.18 U	0.82	0.36	0.39
RD-16	SMRD-16-GW042011	Tl-208	Total	0.77	NA	0.64	NA
RD-16	SMRD-16-GW042011	Tm-171	Filtered	103 U	240	74	120
RD-16	SMRD-16-GW042011	Tm-171	Suspended	-2 U	93	27	45
RD-16	SMRD-16-GW042011	Tm-171	Total	101	NA	79	NA
RD-16	SMRD-16-GW042011	U-233/234	Filtered	1.01	0.005	0.061	0.004
RD-16	SMRD-16-GW042011	U-233/234	Suspended	0.0364	0.0053	0.0097	0.0041
RD-16	SMRD-16-GW042011	U-233/234	Total	1.04	NA	0.062	NA
RD-16	SMRD-16-GW042011	U-235/236	Filtered	0.0386	0.0065	0.0098	0.005
RD-16	SMRD-16-GW042011	U-235/236	Suspended	0.0024 U	0.0066	0.0024	0.0051
RD-16	SMRD-16-GW042011	U-235/236	Total	0.041	NA	0.01	NA
RD-16	SMRD-16-GW042011	U-238	Filtered	0.824	0.013	0.053	0.004
RD-16	SMRD-16-GW042011	U-238	Suspended	0.0136	0.0053	0.0065	0.0041
RD-16	SMRD-16-GW042011	U-238	Total	0.837	NA	0.053	NA
RD-17	SMRD-17-GW032511	Ac-227	Filtered	0.1 U	14	4.2	6.9
RD-17	SMRD-17-GW032511	Ac-227	Suspended	0.78 U	5.7	0.76	2.8
RD-17	SMRD-17-GW032511	Ac-227	Total	0.9	NA	4.2	NA
RD-17	SMRD-17-GW032511	Ac-228	Filtered	4	8.6	1.5	4
RD-17	SMRD-17-GW032511	Ac-228	Suspended	1.8	3.4	0.54	1.6
RD-17	SMRD-17-GW032511	Ac-228	Total	5.8	NA	1.6	NA
RD-17	SMRD-17-GW032511	Ag-108	Filtered	-0.031 U R	0.13	0.038	0.061
RD-17	SMRD-17-GW032511	Ag-108	Suspended	-0.008 U R	0.064	0.019	0.031
RD-17	SMRD-17-GW032511	Ag-108	Total	-0.038 R	NA	0.042	NA
RD-17	SMRD-17-GW032511	Ag-108m	Filtered	-0.33 U R	1.4	0.41	0.66
RD-17	SMRD-17-GW032511	Ag-108m	Suspended	-0.08 U R	0.69	0.2	0.33
RD-17	SMRD-17-GW032511	Ag-108m	Total	-0.41 R	NA	0.46	NA
RD-17	SMRD-17-GW032511	Am-241	Filtered	0.004 U	0.0054	0.0028	0.0046
RD-17	SMRD-17-GW032511	Am-241	Suspended	-0.0083 U	0.027	0.0062	0.012
RD-17	SMRD-17-GW032511	Am-241	Total	-0.0043	NA	0.0068	NA
RD-17	SMRD-17-GW032511	Ba-133	Filtered	-0.46 U R	1.6	0.48	0.77
RD-17	SMRD-17-GW032511	Ba-133	Suspended	0.035 U R	0.78	0.029	0.38

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW032511	Ba-133	Total	-0.43 R	NA	0.48	NA
RD-17	SMRD-17-GW032511	Ba-137m	Filtered	-0.23 U	1.5	0.43	0.7
RD-17	SMRD-17-GW032511	Ba-137m	Suspended	-0.11 U	0.62	0.18	0.29
RD-17	SMRD-17-GW032511	Ba-137m	Total	-0.34	NA	0.47	NA
RD-17	SMRD-17-GW032511	Bi-212	Filtered	8.8	13	6	6
RD-17	SMRD-17-GW032511	Bi-212	Suspended	1.8 U	6.1	1.2	2.9
RD-17	SMRD-17-GW032511	Bi-212	Total	10.6	NA	6.1	NA
RD-17	SMRD-17-GW032511	Bi-214	Filtered	2.8	3.1	1.1	1.5
RD-17	SMRD-17-GW032511	Bi-214	Suspended	0.79	1.6	0.54	0.77
RD-17	SMRD-17-GW032511	Bi-214	Total	3.6	NA	1.2	NA
RD-17	SMRD-17-GW032511	C-14	Total	0.88 U R	2.3	0.69	1.1
RD-17	SMRD-17-GW032511	Cd-113m	Filtered	1300 U	4100	1200	2000
RD-17	SMRD-17-GW032511	Cd-113m	Suspended	-330 U	1800	520	850
RD-17	SMRD-17-GW032511	Cd-113m	Total	1000	NA	1300	NA
RD-17	SMRD-17-GW032511	Cf-249	Filtered	0.69 U R	6.6	0.58	3.2
RD-17	SMRD-17-GW032511	Cf-249	Suspended	0.19 U R	3	0.14	1.4
RD-17	SMRD-17-GW032511	Cf-249	Total	0.88 R	NA	0.6	NA
RD-17	SMRD-17-GW032511	Cm-243/244	Filtered	0.002 U	0.0053	0.002	0.0045
RD-17	SMRD-17-GW032511	Cm-243/244	Suspended	0 U	0.0046	0.0017	0.0039
RD-17	SMRD-17-GW032511	Cm-243/244	Total	0.002	NA	0.0026	NA
RD-17	SMRD-17-GW032511	Cm-245/246	Filtered	0.0005 U J	0.016	0.0032	0.0049
RD-17	SMRD-17-GW032511	Cm-245/246	Suspended	0.0264	0.014	0.0081	0.0045
RD-17	SMRD-17-GW032511	Cm-245/246	Total	0.0268 J	NA	0.0087	NA
RD-17	SMRD-17-GW032511	Co-60	Filtered	0.04 U	1.5	0.41	0.68
RD-17	SMRD-17-GW032511	Co-60	Suspended	0.013 U	0.63	0.086	0.29
RD-17	SMRD-17-GW032511	Co-60	Total	0.06	NA	0.42	NA
RD-17	SMRD-17-GW032511	Cs-134	Filtered	-0.036 U	1.6	0.029	0.77
RD-17	SMRD-17-GW032511	Cs-134	Suspended	0.85 SK	0.62	0.3	0.29
RD-17	SMRD-17-GW032511	Cs-134	Total	0.82	NA	0.3	NA
RD-17	SMRD-17-GW032511	Cs-137	Filtered	-0.24 U	1.6	0.45	0.74
RD-17	SMRD-17-GW032511	Cs-137	Suspended	-0.11 U	0.65	0.19	0.31
RD-17	SMRD-17-GW032511	Cs-137	Total	-0.36	NA	0.49	NA
RD-17	SMRD-17-GW032511	Eu-152	Filtered	0.5 U	3.8	1	1.8
RD-17	SMRD-17-GW032511	Eu-152	Suspended	0.89	0.97	0.36	0.45
RD-17	SMRD-17-GW032511	Eu-152	Total	1.4	NA	1.1	NA
RD-17	SMRD-17-GW032511	Eu-154	Filtered	-0.7 U	9.3	1.1	4.4
RD-17	SMRD-17-GW032511	Eu-154	Suspended	0.06 U	4.4	0.34	2.1
RD-17	SMRD-17-GW032511	Eu-154	Total	-0.7	NA	1.2	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW032511	Eu-155	Filtered	0.6 U	3.8	1.1	1.8
RD-17	SMRD-17-GW032511	Eu-155	Suspended	-0.03 U	1.2	0.36	0.59
RD-17	SMRD-17-GW032511	Eu-155	Total	0.6	NA	1.2	NA
RD-17	SMRD-17-GW032511	gross_alpha	Filtered	5.87	0.58	0.51	0.32
RD-17	SMRD-17-GW032511	gross_alpha	Suspended	0.67	0.44	0.18	0.23
RD-17	SMRD-17-GW032511	gross_alpha	Total	6.54	NA	0.54	NA
RD-17	SMRD-17-GW032511	gross_beta	Filtered	7.1	4.2	1.5	2.5
RD-17	SMRD-17-GW032511	gross_beta	Suspended	-0.09 U	0.68	0.19	0.4
RD-17	SMRD-17-GW032511	gross_beta	Total	7	NA	1.5	NA
RD-17	SMRD-17-GW032511	H-3	Total	-9 U	140	42	69
RD-17	SMRD-17-GW032511	Ho-166m	Filtered	1.4 SK	2	0.79	0.94
RD-17	SMRD-17-GW032511	Ho-166m	Suspended	0.17 U	1	0.27	0.48
RD-17	SMRD-17-GW032511	Ho-166m	Total	1.57	NA	0.83	NA
RD-17	SMRD-17-GW032511	I-129	Filtered	0.18 U	0.57	0.17	0.28
RD-17	SMRD-17-GW032511	I-129	Suspended	-0.18 U	0.49	0.15	0.24
RD-17	SMRD-17-GW032511	I-129	Total	0.003	NA	0.23	NA
RD-17	SMRD-17-GW032511	K-40	Filtered	9.7 U	23	6.4	11
RD-17	SMRD-17-GW032511	K-40	Suspended	-4.8 U	10	4.4	4.8
RD-17	SMRD-17-GW032511	K-40	Total	4.9	NA	7.8	NA
RD-17	SMRD-17-GW032511	Na-22	Filtered	-1 U	2	21	0.9
RD-17	SMRD-17-GW032511	Na-22	Suspended	0.07 U	0.7	0.2	0.33
RD-17	SMRD-17-GW032511	Na-22	Total	-0.9	NA	21	NA
RD-17	SMRD-17-GW032511	Nb-94	Filtered	0.18 U	1.4	0.4	0.65
RD-17	SMRD-17-GW032511	Nb-94	Suspended	0.09 U	0.66	0.19	0.32
RD-17	SMRD-17-GW032511	Nb-94	Total	0.27	NA	0.44	NA
RD-17	SMRD-17-GW032511	Np-236	Filtered	-0.07 U	3.1	0.92	1.5
RD-17	SMRD-17-GW032511	Np-236	Suspended	0.17 U	1.2	0.35	0.57
RD-17	SMRD-17-GW032511	Np-236	Total	0.1	NA	0.98	NA
RD-17	SMRD-17-GW032511	Np-237	Filtered	0.0023 U	0.026	0.0052	0.0057
RD-17	SMRD-17-GW032511	Np-237	Suspended	0 U	0.011	0.0028	0.0058
RD-17	SMRD-17-GW032511	Np-237	Total	0.0023	NA	0.0059	NA
RD-17	SMRD-17-GW032511	Np-239	Filtered	0.06 U	6.9	2	3.3
RD-17	SMRD-17-GW032511	Np-239	Suspended	0.39 U	3.2	0.94	1.5
RD-17	SMRD-17-GW032511	Np-239	Total	0.5	NA	2.2	NA
RD-17	SMRD-17-GW032511	Pa-231	Filtered	18 U	54	16	26
RD-17	SMRD-17-GW032511	Pa-231	Suspended	2.5 U	26	7.8	13
RD-17	SMRD-17-GW032511	Pa-231	Total	21	NA	18	NA
RD-17	SMRD-17-GW032511	Pb-212	Filtered	0.74 U	2.8	0.82	1.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW032511	Pb-212	Suspended	0.69	1.3	0.34	0.63
RD-17	SMRD-17-GW032511	Pb-212	Total	1.43	NA	0.89	NA
RD-17	SMRD-17-GW032511	Pb-214	Filtered	3.5	2.9	1.1	1.4
RD-17	SMRD-17-GW032511	Pb-214	Suspended	1.04	1.5	0.55	0.72
RD-17	SMRD-17-GW032511	Pb-214	Total	4.5	NA	1.2	NA
RD-17	SMRD-17-GW032511	Pu-238	Filtered	0.0022 U	0.024	0.0059	0.009
RD-17	SMRD-17-GW032511	Pu-238	Suspended	0.0231	0.02	0.0079	0.0082
RD-17	SMRD-17-GW032511	Pu-238	Total	0.0253	NA	0.0099	NA
RD-17	SMRD-17-GW032511	Pu-239/240	Filtered	-0.0045 U	0.021	0.0032	0.0074
RD-17	SMRD-17-GW032511	Pu-239/240	Suspended	0 U	0.0039	0.0016	0.0038
RD-17	SMRD-17-GW032511	Pu-239/240	Total	-0.0045	NA	0.0036	NA
RD-17	SMRD-17-GW032511	Pu-242	Filtered	-0.0045 U	0.021	0.0032	0.0074
RD-17	SMRD-17-GW032511	Pu-242	Suspended	0.0072	0.011	0.0039	0.0034
RD-17	SMRD-17-GW032511	Pu-242	Total	0.0027	NA	0.005	NA
RD-17	SMRD-17-GW032511	Ra-226	Filtered	0.95	0.12	0.11	0.06
RD-17	SMRD-17-GW032511	Ra-226	Suspended	0.06 U	0.22	0.062	0.12
RD-17	SMRD-17-GW032511	Ra-226	Total	1.01	NA	0.12	NA
RD-17	SMRD-17-GW032511	Sb-125	Filtered	0.6 U	3.9	1.3	1.8
RD-17	SMRD-17-GW032511	Sb-125	Suspended	0.073 U	1.8	0.046	0.89
RD-17	SMRD-17-GW032511	Sb-125	Total	0.7	NA	1.3	NA
RD-17	SMRD-17-GW032511	Sn-126	Filtered	0.009 U	1.6	0.46	0.75
RD-17	SMRD-17-GW032511	Sn-126	Suspended	0.19 U	0.62	0.18	0.29
RD-17	SMRD-17-GW032511	Sn-126	Total	0.19	NA	0.49	NA
RD-17	SMRD-17-GW032511	Sr-90	Filtered	0.035 U	0.088	0.026	0.05
RD-17	SMRD-17-GW032511	Sr-90	Suspended	0.044	0.06	0.019	0.034
RD-17	SMRD-17-GW032511	Sr-90	Total	0.08	NA	0.033	NA
RD-17	SMRD-17-GW032511	Tc-99	Filtered	-0.17 U	1.3	0.38	0.62
RD-17	SMRD-17-GW032511	Tc-99	Suspended	0.05 U	1.3	0.38	0.62
RD-17	SMRD-17-GW032511	Tc-99	Total	-0.11	NA	0.53	NA
RD-17	SMRD-17-GW032511	Te-125m	Filtered	0.14 U	0.89	0.29	0.43
RD-17	SMRD-17-GW032511	Te-125m	Suspended	0.017 U	0.43	0.011	0.2
RD-17	SMRD-17-GW032511	Te-125m	Total	0.16	NA	0.29	NA
RD-17	SMRD-17-GW032511	Th-231	Filtered	0.091	0.016	0.016	0.005
RD-17	SMRD-17-GW032511	Th-231	Suspended	0.0045 U	0.006	0.0032	0.0046
RD-17	SMRD-17-GW032511	Th-231	Total	0.096	NA	0.016	NA
RD-17	SMRD-17-GW032511	Th-234	Filtered	5.4 U	18	5.7	8.9
RD-17	SMRD-17-GW032511	Th-234	Suspended	1.3 U	6.1	0.77	3
RD-17	SMRD-17-GW032511	Th-234	Total	6.7	NA	5.7	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-17	SMRD-17-GW032511	Tl-208	Filtered	0.42 U	1.7	0.55	0.83
RD-17	SMRD-17-GW032511	Tl-208	Suspended	0.57	0.83	0.3	0.4
RD-17	SMRD-17-GW032511	Tl-208	Total	0.99	NA	0.62	NA
RD-17	SMRD-17-GW032511	Tm-171	Filtered	330	330	120	160
RD-17	SMRD-17-GW032511	Tm-171	Suspended	17 U	130	37	61
RD-17	SMRD-17-GW032511	Tm-171	Total	350	NA	130	NA
RD-17	SMRD-17-GW032511	U-233/234	Filtered	2.04	0.02	0.11	0.006
RD-17	SMRD-17-GW032511	U-233/234	Suspended	0.0175	0.012	0.0073	0.0037
RD-17	SMRD-17-GW032511	U-233/234	Total	2.06	NA	0.11	NA
RD-17	SMRD-17-GW032511	U-235/236	Filtered	0.091	0.016	0.016	0.005
RD-17	SMRD-17-GW032511	U-235/236	Suspended	0.0045 U	0.006	0.0032	0.0046
RD-17	SMRD-17-GW032511	U-235/236	Total	0.096	NA	0.016	NA
RD-17	SMRD-17-GW032511	U-238	Filtered	1.59	0.005	0.087	0.004
RD-17	SMRD-17-GW032511	U-238	Suspended	0.0143	0.0048	0.0062	0.0037
RD-17	SMRD-17-GW032511	U-238	Total	1.61	NA	0.087	NA
RD-18	SMRD-18-GW032211	Ac-227	Filtered	-8.1 L U	9.5	3	4.7
RD-18	SMRD-18-GW032211	Ac-227	Suspended	-1.1 U	3.8	1.1	1.8
RD-18	SMRD-18-GW032211	Ac-227	Total	-9.3 L	NA	3.2	NA
RD-18	SMRD-18-GW032211	Ac-228	Filtered	3.7	3.5	1.1	1.6
RD-18	SMRD-18-GW032211	Ac-228	Suspended	0.4 U	2.6	0.69	1.3
RD-18	SMRD-18-GW032211	Ac-228	Total	4.1	NA	1.3	NA
RD-18	SMRD-18-GW032211	Ag-108	Filtered	0.004 U R	0.073	0.021	0.035
RD-18	SMRD-18-GW032211	Ag-108	Suspended	-0.011 U R	0.051	0.015	0.024
RD-18	SMRD-18-GW032211	Ag-108	Total	-0.007 R	NA	0.026	NA
RD-18	SMRD-18-GW032211	Ag-108m	Filtered	0.05 U R	0.79	0.23	0.37
RD-18	SMRD-18-GW032211	Ag-108m	Suspended	-0.12 U R	0.55	0.16	0.26
RD-18	SMRD-18-GW032211	Ag-108m	Total	-0.07 R	NA	0.28	NA
RD-18	SMRD-18-GW032211	Ba-133	Filtered	0.5 U R	9	2.6	4.3
RD-18	SMRD-18-GW032211	Ba-133	Suspended	-0.7 U R	6.2	1.8	3
RD-18	SMRD-18-GW032211	Ba-133	Total	-0.3 R	NA	3.2	NA
RD-18	SMRD-18-GW032211	Ba-137m	Filtered	0.04 U	0.92	0.27	0.43
RD-18	SMRD-18-GW032211	Ba-137m	Suspended	-0.06 U	0.7	0.21	0.34
RD-18	SMRD-18-GW032211	Ba-137m	Total	-0.01	NA	0.34	NA
RD-18	SMRD-18-GW032211	Bi-212	Filtered	-4 U	9	280	4
RD-18	SMRD-18-GW032211	Bi-212	Suspended	-1.9 U	5.5	1.7	2.6
RD-18	SMRD-18-GW032211	Bi-212	Total	-6	NA	280	NA
RD-18	SMRD-18-GW032211	Bi-214	Filtered	-0.05 U	2.7	0.88	1.3
RD-18	SMRD-18-GW032211	Bi-214	Suspended	0.58 U	1.6	0.53	0.76

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW032211	Bi-214	Total	0.5	NA	1	NA
RD-18	SMRD-18-GW032211	Cd-113m	Filtered	-300 U	11000	3200	5300
RD-18	SMRD-18-GW032211	Cd-113m	Suspended	-1500 U	7400	2200	3600
RD-18	SMRD-18-GW032211	Cd-113m	Total	-1800	NA	3900	NA
RD-18	SMRD-18-GW032211	Cf-249	Filtered	0.4 U R	5.5	1.6	2.6
RD-18	SMRD-18-GW032211	Cf-249	Suspended	-0.06 U R	3.4	0.99	1.6
RD-18	SMRD-18-GW032211	Cf-249	Total	0.3 R	NA	1.9	NA
RD-18	SMRD-18-GW032211	Co-60	Filtered	-0.31 U	1.2	0.35	0.55
RD-18	SMRD-18-GW032211	Co-60	Suspended	0.01 U	0.67	0.19	0.31
RD-18	SMRD-18-GW032211	Co-60	Total	-0.3	NA	0.4	NA
RD-18	SMRD-18-GW032211	Cs-134	Filtered	-0.31 U	1.3	0.38	0.61
RD-18	SMRD-18-GW032211	Cs-134	Suspended	0.12 U	0.63	0.19	0.3
RD-18	SMRD-18-GW032211	Cs-134	Total	-0.19	NA	0.42	NA
RD-18	SMRD-18-GW032211	Cs-137	Filtered	0.05 U	0.97	0.28	0.46
RD-18	SMRD-18-GW032211	Cs-137	Suspended	-0.06 U	0.74	0.22	0.35
RD-18	SMRD-18-GW032211	Cs-137	Total	-0.01	NA	0.35	NA
RD-18	SMRD-18-GW032211	Eu-152	Filtered	1.17 U	2.6	0.78	1.2
RD-18	SMRD-18-GW032211	Eu-152	Suspended	-0.53 U	1.8	0.54	0.87
RD-18	SMRD-18-GW032211	Eu-152	Total	0.64	NA	0.95	NA
RD-18	SMRD-18-GW032211	Eu-154	Filtered	-0.3 U	8.3	2.4	3.9
RD-18	SMRD-18-GW032211	Eu-154	Suspended	1.2 U	5.5	1.6	2.6
RD-18	SMRD-18-GW032211	Eu-154	Total	0.9	NA	2.9	NA
RD-18	SMRD-18-GW032211	Eu-155	Filtered	-0.76 U	3.1	0.93	1.5
RD-18	SMRD-18-GW032211	Eu-155	Suspended	0.16 U	1.2	0.36	0.6
RD-18	SMRD-18-GW032211	Eu-155	Total	-0.6	NA	1	NA
RD-18	SMRD-18-GW032211	gross_alpha	Filtered	7.71	0.38	0.61	0.18
RD-18	SMRD-18-GW032211	gross_alpha	Suspended	2.75	0.42	0.33	0.22
RD-18	SMRD-18-GW032211	gross_alpha	Total	10.5	NA	0.69	NA
RD-18	SMRD-18-GW032211	gross_beta	Filtered	4.89	2	0.83	1.2
RD-18	SMRD-18-GW032211	gross_beta	Suspended	0.3 U	0.87	0.26	0.52
RD-18	SMRD-18-GW032211	gross_beta	Total	5.19	NA	0.87	NA
RD-18	SMRD-18-GW032211	H-3	Total	-18 U	150	44	74
RD-18	SMRD-18-GW032211	Ho-166m	Filtered	0.21 U	1.7	0.5	0.82
RD-18	SMRD-18-GW032211	Ho-166m	Suspended	-0.33 U	1.2	0.36	0.57
RD-18	SMRD-18-GW032211	Ho-166m	Total	-0.12	NA	0.62	NA
RD-18	SMRD-18-GW032211	K-40	Filtered	-0.8 U	17	4.4	8.2
RD-18	SMRD-18-GW032211	K-40	Suspended	5.6 U	12	3.3	5.7
RD-18	SMRD-18-GW032211	K-40	Total	4.8	NA	5.5	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW032211	Na-22	Filtered	0.01 U	1.1	0.31	0.51
RD-18	SMRD-18-GW032211	Na-22	Suspended	0.02 U	0.72	0.2	0.33
RD-18	SMRD-18-GW032211	Na-22	Total	0.04	NA	0.37	NA
RD-18	SMRD-18-GW032211	Nb-94	Filtered	0.25 U	1	0.3	0.49
RD-18	SMRD-18-GW032211	Nb-94	Suspended	0.12 U	0.61	0.18	0.29
RD-18	SMRD-18-GW032211	Nb-94	Total	0.37	NA	0.35	NA
RD-18	SMRD-18-GW032211	Np-236	Filtered	-1.19 U	2.8	0.84	1.4
RD-18	SMRD-18-GW032211	Np-236	Suspended	-0.2 U	1.2	0.37	0.6
RD-18	SMRD-18-GW032211	Np-236	Total	-1.39	NA	0.92	NA
RD-18	SMRD-18-GW032211	Np-239	Filtered	-2.1 U	7.3	2.2	3.6
RD-18	SMRD-18-GW032211	Np-239	Suspended	0.5 U	3.9	1.1	1.9
RD-18	SMRD-18-GW032211	Np-239	Total	-1.6	NA	2.5	NA
RD-18	SMRD-18-GW032211	Pa-231	Filtered	3 U	50	15	24
RD-18	SMRD-18-GW032211	Pa-231	Suspended	9.9 U	25	7.5	12
RD-18	SMRD-18-GW032211	Pa-231	Total	13	NA	17	NA
RD-18	SMRD-18-GW032211	Pb-212	Filtered	-0.17 U	2.3	0.73	1.1
RD-18	SMRD-18-GW032211	Pb-212	Suspended	-0.1 U	1.2	0.43	0.58
RD-18	SMRD-18-GW032211	Pb-212	Total	-0.27	NA	0.85	NA
RD-18	SMRD-18-GW032211	Pb-214	Filtered	-0.6 U	2.8	1	1.3
RD-18	SMRD-18-GW032211	Pb-214	Suspended	-0.79 U	1.5	0.69	0.75
RD-18	SMRD-18-GW032211	Pb-214	Total	-1.4	NA	1.2	NA
RD-18	SMRD-18-GW032211	Sb-125	Filtered	0.03 U	9	2.6	4.4
RD-18	SMRD-18-GW032211	Sb-125	Suspended	0.2 U	6.1	1.8	3
RD-18	SMRD-18-GW032211	Sb-125	Total	0.2	NA	3.2	NA
RD-18	SMRD-18-GW032211	Sn-126	Filtered	0.46 U	1.2	0.37	0.6
RD-18	SMRD-18-GW032211	Sn-126	Suspended	0.15 U	0.76	0.23	0.37
RD-18	SMRD-18-GW032211	Sn-126	Total	0.61	NA	0.44	NA
RD-18	SMRD-18-GW032211	Sr-90	Filtered	0.004 U	0.054	0.016	0.029
RD-18	SMRD-18-GW032211	Sr-90	Suspended	0.028 U	0.054	0.017	0.031
RD-18	SMRD-18-GW032211	Sr-90	Total	0.028	NA	0.017	NA
RD-18	SMRD-18-GW032211	Te-125m	Filtered	0.008 U	2.1	0.61	1
RD-18	SMRD-18-GW032211	Te-125m	Suspended	0.04 U	1.4	0.42	0.69
RD-18	SMRD-18-GW032211	Te-125m	Total	0.04	NA	0.74	NA
RD-18	SMRD-18-GW032211	Th-231	Filtered	0.124	0.007	0.018	0.005
RD-18	SMRD-18-GW032211	Th-231	Suspended	0.0053 U	0.029	0.0072	0.0092
RD-18	SMRD-18-GW032211	Th-231	Total	0.129	NA	0.02	NA
RD-18	SMRD-18-GW032211	Th-234	Filtered	4 U	20	6.1	9.7
RD-18	SMRD-18-GW032211	Th-234	Suspended	3.1 U	8.5	2.7	4.2

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-18	SMRD-18-GW032211	Th-234	Total	7.1	NA	6.6	NA
RD-18	SMRD-18-GW032211	Tl-208	Filtered	0.86	1.3	0.44	0.61
RD-18	SMRD-18-GW032211	Tl-208	Suspended	0.18 U	0.74	0.25	0.35
RD-18	SMRD-18-GW032211	Tl-208	Total	1.04	NA	0.51	NA
RD-18	SMRD-18-GW032211	Tm-171	Filtered	7 U	370	110	180
RD-18	SMRD-18-GW032211	Tm-171	Suspended	27 U	100	31	50
RD-18	SMRD-18-GW032211	Tm-171	Total	30	NA	110	NA
RD-18	SMRD-18-GW032211	U-233/234	Filtered	3.3	0.006	0.16	0.004
RD-18	SMRD-18-GW032211	U-233/234	Suspended	0.077	0.024	0.019	0.007
RD-18	SMRD-18-GW032211	U-233/234	Total	3.38	NA	0.16	NA
RD-18	SMRD-18-GW032211	U-235/236	Filtered	0.124	0.007	0.018	0.005
RD-18	SMRD-18-GW032211	U-235/236	Suspended	0.0053 U	0.029	0.0072	0.0092
RD-18	SMRD-18-GW032211	U-235/236	Total	0.129	NA	0.02	NA
RD-18	SMRD-18-GW032211	U-238	Filtered	2.61	0.005	0.13	0.004
RD-18	SMRD-18-GW032211	U-238	Suspended	0.057	0.024	0.017	0.007
RD-18	SMRD-18-GW032211	U-238	Total	2.67	NA	0.13	NA
RD-19	SMRD-19-GW031711	Ac-227	Filtered	-6.9 L U	10	3.2	5
RD-19	SMRD-19-GW031711	Ac-227	Suspended	-1.3 U	4.4	1.3	2.1
RD-19	SMRD-19-GW031711	Ac-227	Total	-8.2 L	NA	3.4	NA
RD-19	SMRD-19-GW031711	Ac-228	Filtered	4.2	3.3	1.1	1.5
RD-19	SMRD-19-GW031711	Ac-228	Suspended	0.31 U	2.7	0.71	1.3
RD-19	SMRD-19-GW031711	Ac-228	Total	4.5	NA	1.3	NA
RD-19	SMRD-19-GW031711	Ag-108	Filtered	-0.011 R	0.086	0.025	0.041
RD-19	SMRD-19-GW031711	Ag-108	Suspended	0.015 R	0.048	0.014	0.023
RD-19	SMRD-19-GW031711	Ag-108	Total	0.004 R	NA	0.029	NA
RD-19	SMRD-19-GW031711	Ag-108m	Filtered	-0.12 R	0.92	0.27	0.44
RD-19	SMRD-19-GW031711	Ag-108m	Suspended	0.16 R	0.52	0.15	0.25
RD-19	SMRD-19-GW031711	Ag-108m	Total	0.05 R	NA	0.31	NA
RD-19	SMRD-19-GW031711	Am-241	Filtered	0.0257	0.022	0.0091	0.0077
RD-19	SMRD-19-GW031711	Am-241	Suspended	-0.007 U	0.026	0.006	0.011
RD-19	SMRD-19-GW031711	Am-241	Total	0.019	NA	0.011	NA
RD-19	SMRD-19-GW031711	Ba-133	Filtered	-3.7 R	11	3.2	5.2
RD-19	SMRD-19-GW031711	Ba-133	Suspended	2.1 R	5.7	1.7	2.8
RD-19	SMRD-19-GW031711	Ba-133	Total	-1.6 R	NA	3.6	NA
RD-19	SMRD-19-GW031711	Ba-137m	Filtered	-0.04 U	1.1	0.32	0.52
RD-19	SMRD-19-GW031711	Ba-137m	Suspended	0.18 U	0.65	0.19	0.31
RD-19	SMRD-19-GW031711	Ba-137m	Total	0.14	NA	0.37	NA
RD-19	SMRD-19-GW031711	Bi-212	Filtered	-0.03 U	9.3	2.6	4.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-19-GW031711	Bi-212	Suspended	-0.3 U	4.8	1.4	2.3
RD-19	SMRD-19-GW031711	Bi-212	Total	-0.3	NA	2.9	NA
RD-19	SMRD-19-GW031711	Bi-214	Filtered	4.1	2.8	1.1	1.4
RD-19	SMRD-19-GW031711	Bi-214	Suspended	0.58 U	1.8	0.75	0.89
RD-19	SMRD-19-GW031711	Bi-214	Total	4.7	NA	1.4	NA
RD-19	SMRD-19-GW031711	C-14	Total	1.17 R	2.1	0.66	1
RD-19	SMRD-19-GW031711	Cd-113m	Filtered	200 U	14000	4200	6800
RD-19	SMRD-19-GW031711	Cd-113m	Suspended	-1000 U	6900	2000	3300
RD-19	SMRD-19-GW031711	Cd-113m	Total	-800	NA	4600	NA
RD-19	SMRD-19-GW031711	Cf-249	Filtered	-0.006 R	5.5	1.6	2.7
RD-19	SMRD-19-GW031711	Cf-249	Suspended	-0.19 R	2.4	0.71	1.2
RD-19	SMRD-19-GW031711	Cf-249	Total	-0.2 R	NA	1.8	NA
RD-19	SMRD-19-GW031711	Cm-243/244	Filtered	0.0275	0.025	0.0098	0.0092
RD-19	SMRD-19-GW031711	Cm-243/244	Suspended	0 U	0.0046	0.0017	0.004
RD-19	SMRD-19-GW031711	Cm-243/244	Total	0.0275	NA	0.0099	NA
RD-19	SMRD-19-GW031711	Cm-245/246	Filtered	0.0218 J	0.016	0.0078	0.0049
RD-19	SMRD-19-GW031711	Cm-245/246	Suspended	0.0138	0.017	0.0064	0.0065
RD-19	SMRD-19-GW031711	Cm-245/246	Total	0.036 J	NA	0.01	NA
RD-19	SMRD-19-GW031711	Co-60	Filtered	0.05 U	0.94	0.26	0.43
RD-19	SMRD-19-GW031711	Co-60	Suspended	0.27 U	0.66	0.2	0.3
RD-19	SMRD-19-GW031711	Co-60	Total	0.32	NA	0.33	NA
RD-19	SMRD-19-GW031711	Cs-134	Filtered	0.003 U	1.2	0.35	0.58
RD-19	SMRD-19-GW031711	Cs-134	Suspended	0.02 U	0.73	0.22	0.35
RD-19	SMRD-19-GW031711	Cs-134	Total	0.02	NA	0.41	NA
RD-19	SMRD-19-GW031711	Cs-137	Filtered	-0.04 U	1.2	0.33	0.55
RD-19	SMRD-19-GW031711	Cs-137	Suspended	0.19 U	0.68	0.2	0.33
RD-19	SMRD-19-GW031711	Cs-137	Total	0.15	NA	0.39	NA
RD-19	SMRD-19-GW031711	Eu-152	Filtered	0.009 U	3.1	0.91	1.5
RD-19	SMRD-19-GW031711	Eu-152	Suspended	0.32 U	1.7	0.52	0.85
RD-19	SMRD-19-GW031711	Eu-152	Total	0.3	NA	1	NA
RD-19	SMRD-19-GW031711	Eu-154	Filtered	-0.6 U	9	2.6	4.2
RD-19	SMRD-19-GW031711	Eu-154	Suspended	0 U	6.3	1.8	3
RD-19	SMRD-19-GW031711	Eu-154	Total	-0.6	NA	3.2	NA
RD-19	SMRD-19-GW031711	Eu-155	Filtered	0.49 U	3	0.89	1.5
RD-19	SMRD-19-GW031711	Eu-155	Suspended	0.46 U	1.2	0.37	0.6
RD-19	SMRD-19-GW031711	Eu-155	Total	0.95	NA	0.97	NA
RD-19	SMRD-19-GW031711	gross_alpha	Filtered	20.8	0.4	1.2	0.2
RD-19	SMRD-19-GW031711	gross_alpha	Suspended	0.03 U	0.55	0.14	0.29

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-19-GW031711	gross_alpha	Total	20.8	NA	1.2	NA
RD-19	SMRD-19-GW031711	gross_beta	Filtered	8	3.9	1.6	2.2
RD-19	SMRD-19-GW031711	gross_beta	Suspended	0.34 U	0.84	0.26	0.5
RD-19	SMRD-19-GW031711	gross_beta	Total	8.4	NA	1.6	NA
RD-19	SMRD-19-GW031711	H-3	Total	-12 U	150	43	72
RD-19	SMRD-19-GW031711	Ho-166m	Filtered	-0.05 U	1.6	0.47	0.77
RD-19	SMRD-19-GW031711	Ho-166m	Suspended	-0.39 U	1.1	0.34	0.54
RD-19	SMRD-19-GW031711	Ho-166m	Total	-0.44	NA	0.58	NA
RD-19	SMRD-19-GW031711	I-129	Filtered	-0.09 U	0.59	0.18	0.29
RD-19	SMRD-19-GW031711	I-129	Suspended	0.003 U	0.47	0.14	0.23
RD-19	SMRD-19-GW031711	I-129	Total	-0.08	NA	0.23	NA
RD-19	SMRD-19-GW031711	K-40	Filtered	11.1	15	4.4	7.1
RD-19	SMRD-19-GW031711	K-40	Suspended	1 U	12	3.5	5.7
RD-19	SMRD-19-GW031711	K-40	Total	12.1	NA	5.7	NA
RD-19	SMRD-19-GW031711	Na-22	Filtered	-0.21 U	1.2	0.36	0.58
RD-19	SMRD-19-GW031711	Na-22	Suspended	-0.04 U	0.69	0.2	0.32
RD-19	SMRD-19-GW031711	Na-22	Total	-0.25	NA	0.41	NA
RD-19	SMRD-19-GW031711	Nb-94	Filtered	0.3 U	1.1	0.32	0.51
RD-19	SMRD-19-GW031711	Nb-94	Suspended	-0.13 U	0.68	0.2	0.32
RD-19	SMRD-19-GW031711	Nb-94	Total	0.16	NA	0.37	NA
RD-19	SMRD-19-GW031711	Np-236	Filtered	-0.73 U	2.8	0.83	1.3
RD-19	SMRD-19-GW031711	Np-236	Suspended	-0.09 U	1.2	0.36	0.59
RD-19	SMRD-19-GW031711	Np-236	Total	-0.82	NA	0.9	NA
RD-19	SMRD-19-GW031711	Np-237	Filtered	0 U	0.034	0.0061	0.008
RD-19	SMRD-19-GW031711	Np-237	Suspended	0 U	0.0087	0.0023	0.0054
RD-19	SMRD-19-GW031711	Np-237	Total	0	NA	0.0065	NA
RD-19	SMRD-19-GW031711	Np-239	Filtered	1.3 U	7.1	2.1	3.5
RD-19	SMRD-19-GW031711	Np-239	Suspended	0.4 U	3.7	1.1	1.8
RD-19	SMRD-19-GW031711	Np-239	Total	1.7	NA	2.4	NA
RD-19	SMRD-19-GW031711	Pa-231	Filtered	21 U	48	15	23
RD-19	SMRD-19-GW031711	Pa-231	Suspended	0.09 U	26	7.6	13
RD-19	SMRD-19-GW031711	Pa-231	Total	21	NA	16	NA
RD-19	SMRD-19-GW031711	Pb-212	Filtered	0.8 U	2.4	0.74	1.2
RD-19	SMRD-19-GW031711	Pb-212	Suspended	0.22 U	1.2	0.44	0.59
RD-19	SMRD-19-GW031711	Pb-212	Total	1.01	NA	0.86	NA
RD-19	SMRD-19-GW031711	Pb-214	Filtered	2.4	2.6	1	1.3
RD-19	SMRD-19-GW031711	Pb-214	Suspended	0.02 U	1.5	0.51	0.72
RD-19	SMRD-19-GW031711	Pb-214	Total	2.5	NA	1.2	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-19-GW031711	Pu-238	Filtered	0.0023 U	0.024	0.006	0.0091
RD-19	SMRD-19-GW031711	Pu-238	Suspended	0.0228	0.021	0.0083	0.0081
RD-19	SMRD-19-GW031711	Pu-238	Total	0.025	NA	0.01	NA
RD-19	SMRD-19-GW031711	Pu-239/240	Filtered	-0.0045 U	0.027	0.0056	0.011
RD-19	SMRD-19-GW031711	Pu-239/240	Suspended	0.0035 U	0.0047	0.0025	0.0046
RD-19	SMRD-19-GW031711	Pu-239/240	Total	-0.001	NA	0.0061	NA
RD-19	SMRD-19-GW031711	Pu-242	Filtered	0.0023 U	0.017	0.0039	0.0053
RD-19	SMRD-19-GW031711	Pu-242	Suspended	0.0018 U	0.013	0.0032	0.0041
RD-19	SMRD-19-GW031711	Pu-242	Total	0.004	NA	0.005	NA
RD-19	SMRD-19-GW031711	Ra-226	Filtered	1.29	0.11	0.12	0.06
RD-19	SMRD-19-GW031711	Ra-226	Suspended	0.102	0.17	0.056	0.09
RD-19	SMRD-19-GW031711	Ra-226	Total	1.39	NA	0.13	NA
RD-19	SMRD-19-GW031711	Sb-125	Filtered	-0.3 U	9.5	2.8	4.6
RD-19	SMRD-19-GW031711	Sb-125	Suspended	0.09 U	5.5	1.6	2.7
RD-19	SMRD-19-GW031711	Sb-125	Total	-0.2	NA	3.2	NA
RD-19	SMRD-19-GW031711	Sn-126	Filtered	0.14 U	1.3	0.37	0.6
RD-19	SMRD-19-GW031711	Sn-126	Suspended	0.18 U	0.66	0.2	0.31
RD-19	SMRD-19-GW031711	Sn-126	Total	0.32	NA	0.42	NA
RD-19	SMRD-19-GW031711	Sr-90	Filtered	0.112	0.16	0.049	0.088
RD-19	SMRD-19-GW031711	Sr-90	Suspended	0.066 U	0.12	0.038	0.073
RD-19	SMRD-19-GW031711	Sr-90	Total	0.179	NA	0.062	NA
RD-19	SMRD-19-GW031711	Tc-99	Filtered	-0.14 U	1.4	0.41	0.68
RD-19	SMRD-19-GW031711	Tc-99	Suspended	0.24 U	1.7	0.5	0.82
RD-19	SMRD-19-GW031711	Tc-99	Total	0.09	NA	0.65	NA
RD-19	SMRD-19-GW031711	Te-125m	Filtered	-0.07 U	2.2	0.65	1.1
RD-19	SMRD-19-GW031711	Te-125m	Suspended	0.02 U	1.3	0.37	0.61
RD-19	SMRD-19-GW031711	Te-125m	Total	-0.05	NA	0.75	NA
RD-19	SMRD-19-GW031711	Th-231	Filtered	0.598	0.009	0.05	0.007
RD-19	SMRD-19-GW031711	Th-231	Suspended	0.005 U	0.0068	0.0035	0.0052
RD-19	SMRD-19-GW031711	Th-231	Total	0.605	NA	0.051	NA
RD-19	SMRD-19-GW031711	Th-234	Filtered	0.9 U	21	6.6	10
RD-19	SMRD-19-GW031711	Th-234	Suspended	-0.4 U	8.7	2.9	4.3
RD-19	SMRD-19-GW031711	Th-234	Total	0.5	NA	7.3	NA
RD-19	SMRD-19-GW031711	Tl-208	Filtered	0.78	1.3	0.41	0.61
RD-19	SMRD-19-GW031711	Tl-208	Suspended	-0.31 U	0.82	0.38	0.39
RD-19	SMRD-19-GW031711	Tl-208	Total	0.47	NA	0.56	NA
RD-19	SMRD-19-GW031711	Tm-171	Filtered	7 U	310	92	150
RD-19	SMRD-19-GW031711	Tm-171	Suspended	8 U	110	32	53

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-19	SMRD-19-GW031711	Tm-171	Total	15	NA	98	NA
RD-19	SMRD-19-GW031711	U-233/234	Filtered	14	0.02	0.62	0.008
RD-19	SMRD-19-GW031711	U-233/234	Suspended	0.0275	0.0054	0.0088	0.0042
RD-19	SMRD-19-GW031711	U-233/234	Total	14.1	NA	0.62	NA
RD-19	SMRD-19-GW031711	U-235/236	Filtered	0.598	0.009	0.05	0.007
RD-19	SMRD-19-GW031711	U-235/236	Suspended	0.005 U	0.0068	0.0035	0.0052
RD-19	SMRD-19-GW031711	U-235/236	Total	0.603	NA	0.051	NA
RD-19	SMRD-19-GW031711	U-238	Filtered	13.2	0.02	0.58	0.005
RD-19	SMRD-19-GW031711	U-238	Suspended	0.0021 U	0.0054	0.0045	0.0042
RD-19	SMRD-19-GW031711	U-238	Total	13.2	NA	0.58	NA
RD-20	SMRD-20-GW032211	Ac-227	Filtered	-8.8 L U	10	3.2	5
RD-20	SMRD-20-GW032211	Ac-227	Suspended	0.1 U	4.1	1.2	2
RD-20	SMRD-20-GW032211	Ac-227	Total	-8.7 L	NA	3.4	NA
RD-20	SMRD-20-GW032211	Ac-228	Filtered	3.1	3.9	1.2	1.8
RD-20	SMRD-20-GW032211	Ac-228	Suspended	1.65	2.3	0.71	1.1
RD-20	SMRD-20-GW032211	Ac-228	Total	4.7	NA	1.4	NA
RD-20	SMRD-20-GW032211	Ag-108	Filtered	0.005 U R	0.056	0.016	0.026
RD-20	SMRD-20-GW032211	Ag-108	Suspended	-0.006 U R	0.051	0.015	0.025
RD-20	SMRD-20-GW032211	Ag-108	Total	-0.0005 R	NA	0.022	NA
RD-20	SMRD-20-GW032211	Ag-108m	Filtered	0.06 U R	0.6	0.17	0.28
RD-20	SMRD-20-GW032211	Ag-108m	Suspended	-0.06 U R	0.55	0.16	0.26
RD-20	SMRD-20-GW032211	Ag-108m	Total	-0.006 R	NA	0.24	NA
RD-20	SMRD-20-GW032211	Ba-133	Filtered	-0.8 U R	12	3.4	5.6
RD-20	SMRD-20-GW032211	Ba-133	Suspended	-0.6 U R	5.8	1.7	2.8
RD-20	SMRD-20-GW032211	Ba-133	Total	-1.4 R	NA	3.8	NA
RD-20	SMRD-20-GW032211	Ba-137m	Filtered	-0.19 U	1.1	0.31	0.5
RD-20	SMRD-20-GW032211	Ba-137m	Suspended	0.2 U	0.68	0.2	0.32
RD-20	SMRD-20-GW032211	Ba-137m	Total	0.008	NA	0.37	NA
RD-20	SMRD-20-GW032211	Bi-212	Filtered	-1.2 U	9.1	4.1	4.3
RD-20	SMRD-20-GW032211	Bi-212	Suspended	0.6 U	5.4	1.5	2.6
RD-20	SMRD-20-GW032211	Bi-212	Total	-0.6	NA	4.4	NA
RD-20	SMRD-20-GW032211	Bi-214	Filtered	1.42	2.6	0.86	1.2
RD-20	SMRD-20-GW032211	Bi-214	Suspended	0.1 U	1.8	0.67	0.86
RD-20	SMRD-20-GW032211	Bi-214	Total	1.5	NA	1.1	NA
RD-20	SMRD-20-GW032211	Cd-113m	Filtered	400 U	14000	4100	6700
RD-20	SMRD-20-GW032211	Cd-113m	Suspended	2000 U	6700	2000	3200
RD-20	SMRD-20-GW032211	Cd-113m	Total	2400	NA	4500	NA
RD-20	SMRD-20-GW032211	Cf-249	Filtered	-0.7 U R	5.6	1.7	2.7

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW032211	Cf-249	Suspended	-0.07 U R	3.2	0.93	1.5
RD-20	SMRD-20-GW032211	Cf-249	Total	-0.8 R	NA	1.9	NA
RD-20	SMRD-20-GW032211	Co-60	Filtered	-0.0009 U	1.3	0.38	0.63
RD-20	SMRD-20-GW032211	Co-60	Suspended	-0.09 U	0.8	0.23	0.37
RD-20	SMRD-20-GW032211	Co-60	Total	-0.09	NA	0.45	NA
RD-20	SMRD-20-GW032211	Cs-134	Filtered	0.05 U	0.73	0.21	0.34
RD-20	SMRD-20-GW032211	Cs-134	Suspended	0.02 U	1	0.31	0.5
RD-20	SMRD-20-GW032211	Cs-134	Total	0.07	NA	0.37	NA
RD-20	SMRD-20-GW032211	Cs-137	Filtered	-0.2 U	1.1	0.33	0.53
RD-20	SMRD-20-GW032211	Cs-137	Suspended	0.21 U	0.72	0.21	0.34
RD-20	SMRD-20-GW032211	Cs-137	Total	0.01	NA	0.39	NA
RD-20	SMRD-20-GW032211	Eu-152	Filtered	-0.31 U	3.3	0.97	1.6
RD-20	SMRD-20-GW032211	Eu-152	Suspended	0.04 U	1.7	0.5	0.82
RD-20	SMRD-20-GW032211	Eu-152	Total	-0.3	NA	1.1	NA
RD-20	SMRD-20-GW032211	Eu-154	Filtered	-1.2 U	8.5	2.5	4
RD-20	SMRD-20-GW032211	Eu-154	Suspended	0.3 U	6.2	1.8	2.9
RD-20	SMRD-20-GW032211	Eu-154	Total	-0.8	NA	3	NA
RD-20	SMRD-20-GW032211	Eu-155	Filtered	0.7 U	3	0.89	1.4
RD-20	SMRD-20-GW032211	Eu-155	Suspended	0.11 U	1.2	0.34	0.56
RD-20	SMRD-20-GW032211	Eu-155	Total	0.82	NA	0.95	NA
RD-20	SMRD-20-GW032211	gross_alpha	Filtered	9.41	0.4	0.69	0.19
RD-20	SMRD-20-GW032211	gross_alpha	Suspended	0.15 U	0.34	0.1	0.17
RD-20	SMRD-20-GW032211	gross_alpha	Total	9.56	NA	0.7	NA
RD-20	SMRD-20-GW032211	gross_beta	Filtered	5	4.1	1.4	2.4
RD-20	SMRD-20-GW032211	gross_beta	Suspended	0.76	0.73	0.25	0.43
RD-20	SMRD-20-GW032211	gross_beta	Total	5.8	NA	1.5	NA
RD-20	SMRD-20-GW032211	H-3	Total	-9 U	170	49	81
RD-20	SMRD-20-GW032211	Ho-166m	Filtered	-0.5 U	2	0.59	0.95
RD-20	SMRD-20-GW032211	Ho-166m	Suspended	0.09 U	1.3	0.37	0.6
RD-20	SMRD-20-GW032211	Ho-166m	Total	-0.4	NA	0.69	NA
RD-20	SMRD-20-GW032211	K-40	Filtered	-2.9 U	17	4.9	8.1
RD-20	SMRD-20-GW032211	K-40	Suspended	5.9	10	3.4	4.9
RD-20	SMRD-20-GW032211	K-40	Total	3	NA	6	NA
RD-20	SMRD-20-GW032211	Na-22	Filtered	-0.06 U	0.91	0.25	0.41
RD-20	SMRD-20-GW032211	Na-22	Suspended	0.05 U	0.63	0.18	0.29
RD-20	SMRD-20-GW032211	Na-22	Total	-0.02	NA	0.31	NA
RD-20	SMRD-20-GW032211	Nb-94	Filtered	0.46	0.97	0.29	0.46
RD-20	SMRD-20-GW032211	Nb-94	Suspended	-0.14 U	0.7	0.21	0.33

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW032211	Nb-94	Total	0.32	NA	0.36	NA
RD-20	SMRD-20-GW032211	Np-236	Filtered	0.03 U	2.1	0.62	1
RD-20	SMRD-20-GW032211	Np-236	Suspended	-0.37 U	1.2	0.35	0.57
RD-20	SMRD-20-GW032211	Np-236	Total	-0.34	NA	0.71	NA
RD-20	SMRD-20-GW032211	Np-239	Filtered	-0.1 U	7.3	2.2	3.5
RD-20	SMRD-20-GW032211	Np-239	Suspended	0.6 U	3.8	1.1	1.8
RD-20	SMRD-20-GW032211	Np-239	Total	0.5	NA	2.4	NA
RD-20	SMRD-20-GW032211	Pa-231	Filtered	3 U	49	15	24
RD-20	SMRD-20-GW032211	Pa-231	Suspended	-0.6 U	29	8.5	14
RD-20	SMRD-20-GW032211	Pa-231	Total	2	NA	17	NA
RD-20	SMRD-20-GW032211	Pb-212	Filtered	1.05 U	2.3	0.59	1.1
RD-20	SMRD-20-GW032211	Pb-212	Suspended	-0.05 U	1	0.32	0.5
RD-20	SMRD-20-GW032211	Pb-212	Total	1	NA	0.68	NA
RD-20	SMRD-20-GW032211	Pb-214	Filtered	1.2 U	2.7	1.1	1.3
RD-20	SMRD-20-GW032211	Pb-214	Suspended	0.009 U	1.5	0.55	0.74
RD-20	SMRD-20-GW032211	Pb-214	Total	1.2	NA	1.3	NA
RD-20	SMRD-20-GW032211	Sb-125	Filtered	2.9 U	12	3.5	5.6
RD-20	SMRD-20-GW032211	Sb-125	Suspended	0.09 U	5.4	1.6	2.6
RD-20	SMRD-20-GW032211	Sb-125	Total	3	NA	3.8	NA
RD-20	SMRD-20-GW032211	Sn-126	Filtered	0.51 U	1.2	0.36	0.57
RD-20	SMRD-20-GW032211	Sn-126	Suspended	0.02 U	0.75	0.22	0.36
RD-20	SMRD-20-GW032211	Sn-126	Total	0.53	NA	0.42	NA
RD-20	SMRD-20-GW032211	Sr-90	Filtered	0.009 U	0.048	0.014	0.027
RD-20	SMRD-20-GW032211	Sr-90	Suspended	0 U	0.12	0.035	0.069
RD-20	SMRD-20-GW032211	Sr-90	Total	0	NA	0.035	NA
RD-20	SMRD-20-GW032211	Te-125m	Filtered	0.66 U	2.7	0.8	1.3
RD-20	SMRD-20-GW032211	Te-125m	Suspended	0.02 U	1.2	0.36	0.6
RD-20	SMRD-20-GW032211	Te-125m	Total	0.68	NA	0.88	NA
RD-20	SMRD-20-GW032211	Th-231	Filtered	0.201	0.007	0.024	0.005
RD-20	SMRD-20-GW032211	Th-231	Suspended	0 U	0.013	0.004	0.01
RD-20	SMRD-20-GW032211	Th-231	Total	0.201	NA	0.025	NA
RD-20	SMRD-20-GW032211	Th-234	Filtered	-5 U	25	11	12
RD-20	SMRD-20-GW032211	Th-234	Suspended	0.8 U	7.2	2.2	3.5
RD-20	SMRD-20-GW032211	Th-234	Total	-4	NA	12	NA
RD-20	SMRD-20-GW032211	Tl-208	Filtered	0.54 U	1.4	0.52	0.68
RD-20	SMRD-20-GW032211	Tl-208	Suspended	-0.44 U	0.88	0.68	0.42
RD-20	SMRD-20-GW032211	Tl-208	Total	0.09	NA	0.85	NA
RD-20	SMRD-20-GW032211	Tm-171	Filtered	-41 U	320	96	160

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-20	SMRD-20-GW032211	Tm-171	Suspended	3 U	120	36	59
RD-20	SMRD-20-GW032211	Tm-171	Total	-40	NA	100	NA
RD-20	SMRD-20-GW032211	U-233/234	Filtered	3.86	0.006	0.19	0.004
RD-20	SMRD-20-GW032211	U-233/234	Suspended	0.024	0.011	0.013	0.008
RD-20	SMRD-20-GW032211	U-233/234	Total	3.89	NA	0.19	NA
RD-20	SMRD-20-GW032211	U-235/236	Filtered	0.201	0.007	0.024	0.005
RD-20	SMRD-20-GW032211	U-235/236	Suspended	0 U	0.013	0.004	0.01
RD-20	SMRD-20-GW032211	U-235/236	Total	0.201	NA	0.025	NA
RD-20	SMRD-20-GW032211	U-238	Filtered	3.16	0.006	0.16	0.004
RD-20	SMRD-20-GW032211	U-238	Suspended	0.006 U	0.026	0.01	0.008
RD-20	SMRD-20-GW032211	U-238	Total	3.17	NA	0.16	NA
RD-21	SMRD-21-GW040111	Ac-227	Filtered	-0.2 U	11	3.2	5.2
RD-21	SMRD-21-GW040111	Ac-227	Suspended	-3.4 L U	4.6	1.4	2.2
RD-21	SMRD-21-GW040111	Ac-227	Total	-3.7	NA	3.5	NA
RD-21	SMRD-21-GW040111	Ac-228	Filtered	2.1	3.5	1.1	1.6
RD-21	SMRD-21-GW040111	Ac-228	Suspended	-1.2 U	3.2	1.8	1.5
RD-21	SMRD-21-GW040111	Ac-228	Total	0.9	NA	2.1	NA
RD-21	SMRD-21-GW040111	Ag-108	Filtered	0.02 U R	0.083	0.025	0.04
RD-21	SMRD-21-GW040111	Ag-108	Suspended	-0.004 U R	0.048	0.014	0.023
RD-21	SMRD-21-GW040111	Ag-108	Total	0.016 R	NA	0.028	NA
RD-21	SMRD-21-GW040111	Ag-108m	Filtered	0.22 U R	0.89	0.26	0.43
RD-21	SMRD-21-GW040111	Ag-108m	Suspended	-0.04 U R	0.51	0.15	0.25
RD-21	SMRD-21-GW040111	Ag-108m	Total	0.17 R	NA	0.3	NA
RD-21	SMRD-21-GW040111	Ba-133	Filtered	-0.4 U R	10	3	5
RD-21	SMRD-21-GW040111	Ba-133	Suspended	-0.05 U R	5.9	1.7	2.9
RD-21	SMRD-21-GW040111	Ba-133	Total	-0.4 R	NA	3.5	NA
RD-21	SMRD-21-GW040111	Ba-137m	Filtered	0.25 U	0.98	0.29	0.46
RD-21	SMRD-21-GW040111	Ba-137m	Suspended	0.21 U	0.71	0.21	0.34
RD-21	SMRD-21-GW040111	Ba-137m	Total	0.46	NA	0.36	NA
RD-21	SMRD-21-GW040111	Bi-212	Filtered	-5 U	8	19	4
RD-21	SMRD-21-GW040111	Bi-212	Suspended	4.2	5.6	1.8	2.7
RD-21	SMRD-21-GW040111	Bi-212	Total	-1	NA	19	NA
RD-21	SMRD-21-GW040111	Bi-214	Filtered	1.61	2.5	0.9	1.2
RD-21	SMRD-21-GW040111	Bi-214	Suspended	1.31	1.7	0.67	0.8
RD-21	SMRD-21-GW040111	Bi-214	Total	2.9	NA	1.1	NA
RD-21	SMRD-21-GW040111	Cd-113m	Filtered	-800 U	11000	3300	5400
RD-21	SMRD-21-GW040111	Cd-113m	Suspended	-1900 U	7200	2100	3500
RD-21	SMRD-21-GW040111	Cd-113m	Total	-2700	NA	3900	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-21-GW040111	Cf-249	Filtered	-1.3 U R	5.3	1.6	2.6
RD-21	SMRD-21-GW040111	Cf-249	Suspended	0.44 U R	3.1	0.92	1.5
RD-21	SMRD-21-GW040111	Cf-249	Total	-0.9 R	NA	1.8	NA
RD-21	SMRD-21-GW040111	Co-60	Filtered	-0.05 U	1.1	0.31	0.51
RD-21	SMRD-21-GW040111	Co-60	Suspended	0.12 U	0.69	0.2	0.32
RD-21	SMRD-21-GW040111	Co-60	Total	0.07	NA	0.37	NA
RD-21	SMRD-21-GW040111	Cs-134	Filtered	0.02 U	0.9	0.26	0.43
RD-21	SMRD-21-GW040111	Cs-134	Suspended	-0.21 U	0.78	0.23	0.38
RD-21	SMRD-21-GW040111	Cs-134	Total	-0.19	NA	0.35	NA
RD-21	SMRD-21-GW040111	Cs-137	Filtered	0.26 U	1	0.31	0.49
RD-21	SMRD-21-GW040111	Cs-137	Suspended	0.22 U	0.75	0.22	0.36
RD-21	SMRD-21-GW040111	Cs-137	Total	0.48	NA	0.38	NA
RD-21	SMRD-21-GW040111	Eu-152	Filtered	-0.17 U	2.5	0.72	1.2
RD-21	SMRD-21-GW040111	Eu-152	Suspended	-0.34 U	1.8	0.55	0.89
RD-21	SMRD-21-GW040111	Eu-152	Total	-0.51	NA	0.9	NA
RD-21	SMRD-21-GW040111	Eu-154	Filtered	-0.09 U	9.7	2.8	4.6
RD-21	SMRD-21-GW040111	Eu-154	Suspended	-0.3 U	5.7	1.6	2.7
RD-21	SMRD-21-GW040111	Eu-154	Total	-0.4	NA	3.3	NA
RD-21	SMRD-21-GW040111	Eu-155	Filtered	0.91 U	2.2	0.67	1.1
RD-21	SMRD-21-GW040111	Eu-155	Suspended	0.52 U	1.3	0.4	0.64
RD-21	SMRD-21-GW040111	Eu-155	Total	1.43	NA	0.78	NA
RD-21	SMRD-21-GW040111	gross_alpha	Filtered	9.71	0.49	0.68	0.26
RD-21	SMRD-21-GW040111	gross_alpha	Suspended	0.56	0.68	0.23	0.36
RD-21	SMRD-21-GW040111	gross_alpha	Total	10.3	NA	0.72	NA
RD-21	SMRD-21-GW040111	gross_beta	Filtered	3.2	3.2	1.1	1.9
RD-21	SMRD-21-GW040111	gross_beta	Suspended	0.14 U	0.86	0.25	0.51
RD-21	SMRD-21-GW040111	gross_beta	Total	3.4	NA	1.1	NA
RD-21	SMRD-21-GW040111	H-3	Total	4 U	120	34	57
RD-21	SMRD-21-GW040111	Ho-166m	Filtered	-0.45 U	1.8	0.54	0.87
RD-21	SMRD-21-GW040111	Ho-166m	Suspended	0.43 U	1.1	0.33	0.52
RD-21	SMRD-21-GW040111	Ho-166m	Total	-0.01	NA	0.64	NA
RD-21	SMRD-21-GW040111	K-40	Filtered	14.4	14	4.9	6.7
RD-21	SMRD-21-GW040111	K-40	Suspended	4.9 U	13	4.4	6.1
RD-21	SMRD-21-GW040111	K-40	Total	19.3	NA	6.6	NA
RD-21	SMRD-21-GW040111	Na-22	Filtered	0 U	1.8	0.53	0.88
RD-21	SMRD-21-GW040111	Na-22	Suspended	-0.01 U	0.78	0.22	0.37
RD-21	SMRD-21-GW040111	Na-22	Total	-0.01	NA	0.58	NA
RD-21	SMRD-21-GW040111	Nb-94	Filtered	0.17 U	0.92	0.27	0.44

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-21-GW040111	Nb-94	Suspended	-0.15 U	0.74	0.22	0.36
RD-21	SMRD-21-GW040111	Nb-94	Total	0.02	NA	0.35	NA
RD-21	SMRD-21-GW040111	Np-236	Filtered	0.02 U	2.6	0.76	1.2
RD-21	SMRD-21-GW040111	Np-236	Suspended	-0.05 U	1.2	0.35	0.57
RD-21	SMRD-21-GW040111	Np-236	Total	-0.03	NA	0.83	NA
RD-21	SMRD-21-GW040111	Np-239	Filtered	-0.6 U	6.8	2	3.3
RD-21	SMRD-21-GW040111	Np-239	Suspended	0.7 U	3.6	1.1	1.8
RD-21	SMRD-21-GW040111	Np-239	Total	0.07	NA	2.3	NA
RD-21	SMRD-21-GW040111	Pa-231	Filtered	-0.7 U	48	14	23
RD-21	SMRD-21-GW040111	Pa-231	Suspended	5.3 U	26	7.9	13
RD-21	SMRD-21-GW040111	Pa-231	Total	5	NA	16	NA
RD-21	SMRD-21-GW040111	Pb-212	Filtered	0.28 U	2.4	0.85	1.2
RD-21	SMRD-21-GW040111	Pb-212	Suspended	0.44 U	0.99	0.31	0.48
RD-21	SMRD-21-GW040111	Pb-212	Total	0.72	NA	0.9	NA
RD-21	SMRD-21-GW040111	Pb-214	Filtered	0.97 U	2.5	0.7	1.2
RD-21	SMRD-21-GW040111	Pb-214	Suspended	0.07 U	1.4	0.38	0.68
RD-21	SMRD-21-GW040111	Pb-214	Total	1.04	NA	0.8	NA
RD-21	SMRD-21-GW040111	Sb-125	Filtered	3.4 U	11	3.2	5.2
RD-21	SMRD-21-GW040111	Sb-125	Suspended	1.8 U	5.4	1.6	2.6
RD-21	SMRD-21-GW040111	Sb-125	Total	5.2	NA	3.6	NA
RD-21	SMRD-21-GW040111	Sn-126	Filtered	0.44	0.93	0.28	0.44
RD-21	SMRD-21-GW040111	Sn-126	Suspended	0.29 U	0.75	0.23	0.36
RD-21	SMRD-21-GW040111	Sn-126	Total	0.73	NA	0.36	NA
RD-21	SMRD-21-GW040111	Sr-90	Filtered	0.097	0.11	0.035	0.063
RD-21	SMRD-21-GW040111	Sr-90	Suspended	-0.004 U	0.054	0.015	0.03
RD-21	SMRD-21-GW040111	Sr-90	Total	0.093	NA	0.039	NA
RD-21	SMRD-21-GW040111	Te-125m	Filtered	0.79 U	2.5	0.74	1.2
RD-21	SMRD-21-GW040111	Te-125m	Suspended	0.41 U	1.2	0.37	0.6
RD-21	SMRD-21-GW040111	Te-125m	Total	1.19	NA	0.83	NA
RD-21	SMRD-21-GW040111	Th-231	Filtered	0.285	0.006	0.029	0.005
RD-21	SMRD-21-GW040111	Th-231	Suspended	0.003 U	0.016	0.004	0.0051
RD-21	SMRD-21-GW040111	Th-231	Total	0.288	NA	0.029	NA
RD-21	SMRD-21-GW040111	Th-234	Filtered	-0.04 U	20	6.3	9.6
RD-21	SMRD-21-GW040111	Th-234	Suspended	1.5 U	9.1	3.1	4.5
RD-21	SMRD-21-GW040111	Th-234	Total	1.4	NA	7	NA
RD-21	SMRD-21-GW040111	Tl-208	Filtered	0.61 U	1.3	0.48	0.64
RD-21	SMRD-21-GW040111	Tl-208	Suspended	0.59	0.7	0.23	0.33
RD-21	SMRD-21-GW040111	Tl-208	Total	1.2	NA	0.54	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-21	SMRD-21-GW040111	Tm-171	Filtered	0 U	360	110	170
RD-21	SMRD-21-GW040111	Tm-171	Suspended	22 U	120	35	57
RD-21	SMRD-21-GW040111	Tm-171	Total	20	NA	110	NA
RD-21	SMRD-21-GW040111	U-233/234	Filtered	5.97	0.02	0.27	0.006
RD-21	SMRD-21-GW040111	U-233/234	Suspended	0.0124	0.019	0.0079	0.0071
RD-21	SMRD-21-GW040111	U-233/234	Total	5.98	NA	0.27	NA
RD-21	SMRD-21-GW040111	U-235/236	Filtered	0.285	0.006	0.028	0.005
RD-21	SMRD-21-GW040111	U-235/236	Suspended	0.003 U	0.016	0.004	0.0051
RD-21	SMRD-21-GW040111	U-235/236	Total	0.287	NA	0.029	NA
RD-21	SMRD-21-GW040111	U-238	Filtered	5.07	0.01	0.23	0.004
RD-21	SMRD-21-GW040111	U-238	Suspended	0.0178	0.0053	0.0072	0.0041
RD-21	SMRD-21-GW040111	U-238	Total	5.09	NA	0.23	NA
RD-22	SMRD-22-GW033111	Ac-227	Filtered	0.3 U	8.1	2.4	3.9
RD-22	SMRD-22-GW033111	Ac-227	Suspended	-0.9 U	3.2	0.97	1.6
RD-22	SMRD-22-GW033111	Ac-227	Total	-0.6	NA	2.6	NA
RD-22	SMRD-22-GW033111	Ac-228	Filtered	3.4	3.7	1.2	1.7
RD-22	SMRD-22-GW033111	Ac-228	Suspended	0.1 U	2.3	0.65	1.1
RD-22	SMRD-22-GW033111	Ac-228	Total	3.5	NA	1.4	NA
RD-22	SMRD-22-GW033111	Ag-108	Filtered	-0.0007 U R	0.094	0.027	0.045
RD-22	SMRD-22-GW033111	Ag-108	Suspended	0.006 U R	0.038	0.011	0.018
RD-22	SMRD-22-GW033111	Ag-108	Total	0.006 R	NA	0.029	NA
RD-22	SMRD-22-GW033111	Ag-108m	Filtered	-0.008 U R	1	0.29	0.48
RD-22	SMRD-22-GW033111	Ag-108m	Suspended	0.07 U R	0.41	0.12	0.19
RD-22	SMRD-22-GW033111	Ag-108m	Total	0.06 R	NA	0.31	NA
RD-22	SMRD-22-GW033111	Ba-133	Filtered	-2.2 U R	13	3.9	6.3
RD-22	SMRD-22-GW033111	Ba-133	Suspended	0.5 U R	4.8	1.4	2.3
RD-22	SMRD-22-GW033111	Ba-133	Total	-1.7 R	NA	4.1	NA
RD-22	SMRD-22-GW033111	Ba-137m	Filtered	0.05 U	1.5	0.44	0.72
RD-22	SMRD-22-GW033111	Ba-137m	Suspended	-0.09 U	0.55	0.16	0.26
RD-22	SMRD-22-GW033111	Ba-137m	Total	-0.04	NA	0.47	NA
RD-22	SMRD-22-GW033111	Bi-212	Filtered	3.3 U	8.9	2.7	4.1
RD-22	SMRD-22-GW033111	Bi-212	Suspended	0.9 U	4	1.2	1.9
RD-22	SMRD-22-GW033111	Bi-212	Total	4.2	NA	2.9	NA
RD-22	SMRD-22-GW033111	Bi-214	Filtered	2.54	2.7	0.96	1.3
RD-22	SMRD-22-GW033111	Bi-214	Suspended	0.05 U	1.5	0.4	0.71
RD-22	SMRD-22-GW033111	Bi-214	Total	2.6	NA	1	NA
RD-22	SMRD-22-GW033111	Cd-113m	Filtered	700 U	14000	4200	6900
RD-22	SMRD-22-GW033111	Cd-113m	Suspended	200 U	5300	1600	2600

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-22-GW033111	Cd-113m	Total	900	NA	4500	NA
RD-22	SMRD-22-GW033111	Cf-249	Filtered	-0.5 U R	6.2	1.8	3
RD-22	SMRD-22-GW033111	Cf-249	Suspended	0.32 U R	2.3	0.67	1.1
RD-22	SMRD-22-GW033111	Cf-249	Total	-0.2 R	NA	1.9	NA
RD-22	SMRD-22-GW033111	Co-60	Filtered	0.36 U	1.1	0.33	0.51
RD-22	SMRD-22-GW033111	Co-60	Suspended	0.03 U	0.57	0.16	0.26
RD-22	SMRD-22-GW033111	Co-60	Total	0.39	NA	0.37	NA
RD-22	SMRD-22-GW033111	Cs-134	Filtered	0.17 U	1.3	0.38	0.61
RD-22	SMRD-22-GW033111	Cs-134	Suspended	0.15 U	0.59	0.18	0.28
RD-22	SMRD-22-GW033111	Cs-134	Total	0.31	NA	0.42	NA
RD-22	SMRD-22-GW033111	Cs-137	Filtered	0.05 U	1.6	0.47	0.76
RD-22	SMRD-22-GW033111	Cs-137	Suspended	-0.1 U	0.59	0.17	0.28
RD-22	SMRD-22-GW033111	Cs-137	Total	-0.05	NA	0.5	NA
RD-22	SMRD-22-GW033111	Eu-152	Filtered	-0.44 U	3.3	0.98	1.6
RD-22	SMRD-22-GW033111	Eu-152	Suspended	0.37 U	1.3	0.39	0.63
RD-22	SMRD-22-GW033111	Eu-152	Total	-0.07	NA	1.1	NA
RD-22	SMRD-22-GW033111	Eu-154	Filtered	-2.5 U	11	3.3	5.3
RD-22	SMRD-22-GW033111	Eu-154	Suspended	-1.2 U	5.1	1.5	2.4
RD-22	SMRD-22-GW033111	Eu-154	Total	-3.6	NA	3.7	NA
RD-22	SMRD-22-GW033111	Eu-155	Filtered	-0.71 U	3.2	0.95	1.5
RD-22	SMRD-22-GW033111	Eu-155	Suspended	0.19 U	0.98	0.29	0.48
RD-22	SMRD-22-GW033111	Eu-155	Total	-0.519	NA	0.996	NA
RD-22	SMRD-22-GW033111	gross_alpha	Filtered	4.85	0.68	0.54	0.35
RD-22	SMRD-22-GW033111	gross_alpha	Suspended	0.08 U	0.42	0.11	0.22
RD-22	SMRD-22-GW033111	gross_alpha	Total	3.07	NA	0.37	NA
RD-22	SMRD-22-GW033111	gross_beta	Filtered	4.02	2.8	0.98	1.7
RD-22	SMRD-22-GW033111	gross_beta	Suspended	0.24 U	0.82	0.24	0.49
RD-22	SMRD-22-GW033111	gross_beta	Total	4.3	NA	1	NA
RD-22	SMRD-22-GW033111	H-3	Total	-29 U	170	49	82
RD-22	SMRD-22-GW033111	Ho-166m	Filtered	0.72 SK	1.4	0.44	0.67
RD-22	SMRD-22-GW033111	Ho-166m	Suspended	0.29 U	0.85	0.25	0.4
RD-22	SMRD-22-GW033111	Ho-166m	Total	1.01 SK	NA	0.51	NA
RD-22	SMRD-22-GW033111	K-40	Filtered	14.7	16	5.5	7.5
RD-22	SMRD-22-GW033111	K-40	Suspended	4.7	7.4	2.1	3.5
RD-22	SMRD-22-GW033111	K-40	Total	19.4	NA	5.9	NA
RD-22	SMRD-22-GW033111	Na-22	Filtered	-0.15 U	1.4	0.39	0.64
RD-22	SMRD-22-GW033111	Na-22	Suspended	-0.08 U	0.64	0.18	0.3
RD-22	SMRD-22-GW033111	Na-22	Total	-0.22	NA	0.44	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-22-GW033111	Nb-94	Filtered	0.22 U	1.1	0.31	0.5
RD-22	SMRD-22-GW033111	Nb-94	Suspended	0.11 U	0.54	0.16	0.25
RD-22	SMRD-22-GW033111	Nb-94	Total	0.32	NA	0.35	NA
RD-22	SMRD-22-GW033111	Np-236	Filtered	0.28 U	2.9	0.85	1.4
RD-22	SMRD-22-GW033111	Np-236	Suspended	-0.05 U	0.93	0.28	0.45
RD-22	SMRD-22-GW033111	Np-236	Total	0.24	NA	0.89	NA
RD-22	SMRD-22-GW033111	Np-239	Filtered	1.7 U	7.7	2.3	3.7
RD-22	SMRD-22-GW033111	Np-239	Suspended	-0.24 U	3.1	0.91	1.5
RD-22	SMRD-22-GW033111	Np-239	Total	1.5	NA	2.5	NA
RD-22	SMRD-22-GW033111	Pa-231	Filtered	7 U	52	15	25
RD-22	SMRD-22-GW033111	Pa-231	Suspended	8.4 U	19	5.8	9.2
RD-22	SMRD-22-GW033111	Pa-231	Total	16	NA	16	NA
RD-22	SMRD-22-GW033111	Pb-212	Filtered	-0.46 U	2.7	0.86	1.3
RD-22	SMRD-22-GW033111	Pb-212	Suspended	-0.07 U	0.88	0.31	0.43
RD-22	SMRD-22-GW033111	Pb-212	Total	-0.53	NA	0.91	NA
RD-22	SMRD-22-GW033111	Pb-214	Filtered	2.94	2.5	0.96	1.2
RD-22	SMRD-22-GW033111	Pb-214	Suspended	0.4 U	1.1	0.31	0.53
RD-22	SMRD-22-GW033111	Pb-214	Total	3.3	NA	1	NA
RD-22	SMRD-22-GW033111	Sb-125	Filtered	-0.8 U	13	3.9	6.4
RD-22	SMRD-22-GW033111	Sb-125	Suspended	-0.5 U	4.3	1.3	2.1
RD-22	SMRD-22-GW033111	Sb-125	Total	-1.3	NA	4.1	NA
RD-22	SMRD-22-GW033111	Sn-126	Filtered	0.15 U	1.4	0.41	0.67
RD-22	SMRD-22-GW033111	Sn-126	Suspended	0.35 B	0.55	0.17	0.26
RD-22	SMRD-22-GW033111	Sn-126	Total	0.5	NA	0.44	NA
RD-22	SMRD-22-GW033111	Sr-90	Filtered	-0.006 U	0.18	0.051	0.1
RD-22	SMRD-22-GW033111	Sr-90	Suspended	-0.006 U	0.062	0.018	0.035
RD-22	SMRD-22-GW033111	Sr-90	Total	-0.012	NA	0.054	NA
RD-22	SMRD-22-GW033111	Te-125m	Filtered	-0.19 U	3	0.9	1.5
RD-22	SMRD-22-GW033111	Te-125m	Suspended	-0.12 U	0.99	0.29	0.48
RD-22	SMRD-22-GW033111	Te-125m	Total	-0.3	NA	0.95	NA
RD-22	SMRD-22-GW033111	Th-231	Filtered	0.0242	0.0065	0.0077	0.005
RD-22	SMRD-22-GW033111	Th-231	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-22	SMRD-22-GW033111	Th-231	Total	0.0267	NA	0.0081	NA
RD-22	SMRD-22-GW033111	Th-234	Filtered	14.3	21	7.3	10
RD-22	SMRD-22-GW033111	Th-234	Suspended	-1 U	5.2	1.5	2.5
RD-22	SMRD-22-GW033111	Th-234	Total	13.3	NA	7.5	NA
RD-22	SMRD-22-GW033111	Tl-208	Filtered	-0.07 U	1.4	0.52	0.67
RD-22	SMRD-22-GW033111	Tl-208	Suspended	0.02 U	0.58	0.16	0.28

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-22	SMRD-22-GW033111	Tl-208	Total	-0.05	NA	0.54	NA
RD-22	SMRD-22-GW033111	Tm-171	Filtered	50 U	360	110	170
RD-22	SMRD-22-GW033111	Tm-171	Suspended	53	83	26	40
RD-22	SMRD-22-GW033111	Tm-171	Total	110	NA	110	NA
RD-22	SMRD-22-GW033111	U-233/234	Filtered	1.12	0.016	0.067	0.006
RD-22	SMRD-22-GW033111	U-233/234	Suspended	0.0134	0.0054	0.007	0.0042
RD-22	SMRD-22-GW033111	U-233/234	Total	1.13	NA	0.067	NA
RD-22	SMRD-22-GW033111	U-235/236	Filtered	0.0242	0.0065	0.0077	0.005
RD-22	SMRD-22-GW033111	U-235/236	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-22	SMRD-22-GW033111	U-235/236	Total	0.0267	NA	0.0081	NA
RD-22	SMRD-22-GW033111	U-238	Filtered	0.518	0.013	0.039	0.004
RD-22	SMRD-22-GW033111	U-238	Suspended	0.0041 U	0.0054	0.0049	0.0042
RD-22	SMRD-22-GW033111	U-238	Total	0.522	NA	0.039	NA
RD-23	SMRD-23-GW040111	Ac-227	Filtered	-2.5 U	8.2	2.5	4
RD-23	SMRD-23-GW040111	Ac-227	Suspended	0.3 U	5.6	1.7	2.7
RD-23	SMRD-23-GW040111	Ac-227	Total	-2.2	NA	3	NA
RD-23	SMRD-23-GW040111	Ac-228	Filtered	2.3	3.9	1.2	1.8
RD-23	SMRD-23-GW040111	Ac-228	Suspended	-0.26 U	2.8	0.92	1.3
RD-23	SMRD-23-GW040111	Ac-228	Total	2	NA	1.5	NA
RD-23	SMRD-23-GW040111	Ag-108	Filtered	-0.029 U R	0.087	0.026	0.041
RD-23	SMRD-23-GW040111	Ag-108	Suspended	0.008 U R	0.054	0.016	0.026
RD-23	SMRD-23-GW040111	Ag-108	Total	-0.02 R	NA	0.03	NA
RD-23	SMRD-23-GW040111	Ag-108m	Filtered	-0.31 U R	0.93	0.28	0.44
RD-23	SMRD-23-GW040111	Ag-108m	Suspended	0.09 U R	0.58	0.17	0.28
RD-23	SMRD-23-GW040111	Ag-108m	Total	-0.22 R	NA	0.33	NA
RD-23	SMRD-23-GW040111	Ba-133	Filtered	-4 U R	13	3.8	6.1
RD-23	SMRD-23-GW040111	Ba-133	Suspended	0.007 U R	6	1.8	2.9
RD-23	SMRD-23-GW040111	Ba-133	Total	-4 R	NA	4.2	NA
RD-23	SMRD-23-GW040111	Ba-137m	Filtered	0.22 U	0.89	0.26	0.41
RD-23	SMRD-23-GW040111	Ba-137m	Suspended	-0.13 U	0.69	0.2	0.33
RD-23	SMRD-23-GW040111	Ba-137m	Total	0.09	NA	0.33	NA
RD-23	SMRD-23-GW040111	Bi-212	Filtered	2 U	9	2.7	4.2
RD-23	SMRD-23-GW040111	Bi-212	Suspended	3.1	5.1	1.6	2.4
RD-23	SMRD-23-GW040111	Bi-212	Total	5.1	NA	3.1	NA
RD-23	SMRD-23-GW040111	Bi-214	Filtered	1.38	2.6	0.91	1.3
RD-23	SMRD-23-GW040111	Bi-214	Suspended	0.5 U	1.6	0.52	0.77
RD-23	SMRD-23-GW040111	Bi-214	Total	1.9	NA	1.1	NA
RD-23	SMRD-23-GW040111	Cd-113m	Filtered	2900 U	14000	4200	6900

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW040111	Cd-113m	Suspended	-800 U	7400	2200	3600
RD-23	SMRD-23-GW040111	Cd-113m	Total	2100	NA	4800	NA
RD-23	SMRD-23-GW040111	Cf-249	Filtered	-1.5 U R	5.8	1.7	2.8
RD-23	SMRD-23-GW040111	Cf-249	Suspended	0.4 U R	3.1	0.92	1.5
RD-23	SMRD-23-GW040111	Cf-249	Total	-1.1 R	NA	2	NA
RD-23	SMRD-23-GW040111	Co-60	Filtered	-0.19 U	1.3	0.38	0.62
RD-23	SMRD-23-GW040111	Co-60	Suspended	0.44	0.66	0.21	0.3
RD-23	SMRD-23-GW040111	Co-60	Total	0.24	NA	0.44	NA
RD-23	SMRD-23-GW040111	Cs-134	Filtered	0.28 U	1.2	0.35	0.56
RD-23	SMRD-23-GW040111	Cs-134	Suspended	-0.15 U	0.83	0.25	0.4
RD-23	SMRD-23-GW040111	Cs-134	Total	0.13	NA	0.43	NA
RD-23	SMRD-23-GW040111	Cs-137	Filtered	0.23 U	0.94	0.28	0.44
RD-23	SMRD-23-GW040111	Cs-137	Suspended	-0.14 U	0.73	0.22	0.35
RD-23	SMRD-23-GW040111	Cs-137	Total	0.09	NA	0.35	NA
RD-23	SMRD-23-GW040111	Eu-152	Filtered	-0.7 U	3.4	1	1.7
RD-23	SMRD-23-GW040111	Eu-152	Suspended	-0.73 U	1.8	0.53	0.85
RD-23	SMRD-23-GW040111	Eu-152	Total	-1.5	NA	1.2	NA
RD-23	SMRD-23-GW040111	Eu-154	Filtered	-0.6 U	10	2.9	4.7
RD-23	SMRD-23-GW040111	Eu-154	Suspended	-0.6 U	4.6	1.3	2.1
RD-23	SMRD-23-GW040111	Eu-154	Total	-1.2	NA	3.2	NA
RD-23	SMRD-23-GW040111	Eu-155	Filtered	0.74 U	3.2	0.95	1.5
RD-23	SMRD-23-GW040111	Eu-155	Suspended	-0.21 U	1.2	0.37	0.6
RD-23	SMRD-23-GW040111	Eu-155	Total	0.5	NA	1	NA
RD-23	SMRD-23-GW040111	gross_alpha	Filtered	2.23	0.5	0.3	0.27
RD-23	SMRD-23-GW040111	gross_alpha	Suspended	0.53	0.54	0.19	0.29
RD-23	SMRD-23-GW040111	gross_alpha	Total	2.76	NA	0.36	NA
RD-23	SMRD-23-GW040111	gross_beta	Filtered	2.64	2.2	0.77	1.3
RD-23	SMRD-23-GW040111	gross_beta	Suspended	0.07 U	0.85	0.24	0.51
RD-23	SMRD-23-GW040111	gross_beta	Total	2.72	NA	0.81	NA
RD-23	SMRD-23-GW040111	H-3	Total	18 U	130	39	64
RD-23	SMRD-23-GW040111	Ho-166m	Filtered	0.005 U	2.1	0.6	0.99
RD-23	SMRD-23-GW040111	Ho-166m	Suspended	-0.2 U	1.1	0.34	0.54
RD-23	SMRD-23-GW040111	Ho-166m	Total	-0.2	NA	0.69	NA
RD-23	SMRD-23-GW040111	K-40	Filtered	-9 U	18	11	9
RD-23	SMRD-23-GW040111	K-40	Suspended	-5.4 U	11	4.9	5.2
RD-23	SMRD-23-GW040111	K-40	Total	-14	NA	12	NA
RD-23	SMRD-23-GW040111	Na-22	Filtered	-0.19 U	1.3	0.38	0.6
RD-23	SMRD-23-GW040111	Na-22	Suspended	-0.005 U	0.79	0.22	0.37

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW040111	Na-22	Total	-0.19	NA	0.44	NA
RD-23	SMRD-23-GW040111	Nb-94	Filtered	-0.05 U	1.1	0.31	0.52
RD-23	SMRD-23-GW040111	Nb-94	Suspended	0.003 U	0.68	0.2	0.33
RD-23	SMRD-23-GW040111	Nb-94	Total	-0.05	NA	0.37	NA
RD-23	SMRD-23-GW040111	Np-236	Filtered	0.53 U	2.6	0.77	1.2
RD-23	SMRD-23-GW040111	Np-236	Suspended	-0.01 U	1.2	0.34	0.57
RD-23	SMRD-23-GW040111	Np-236	Total	0.52	NA	0.84	NA
RD-23	SMRD-23-GW040111	Np-239	Filtered	0.7 U	7.4	2.2	3.6
RD-23	SMRD-23-GW040111	Np-239	Suspended	0.4 U	3.7	1.1	1.8
RD-23	SMRD-23-GW040111	Np-239	Total	1.1	NA	2.5	NA
RD-23	SMRD-23-GW040111	Pa-231	Filtered	-13 U	56	17	27
RD-23	SMRD-23-GW040111	Pa-231	Suspended	-5.8 U	29	8.7	14
RD-23	SMRD-23-GW040111	Pa-231	Total	-19	NA	19	NA
RD-23	SMRD-23-GW040111	Pb-212	Filtered	0.14 U	2.3	0.73	1.1
RD-23	SMRD-23-GW040111	Pb-212	Suspended	0.16 U	1.1	0.33	0.52
RD-23	SMRD-23-GW040111	Pb-212	Total	0.29	NA	0.8	NA
RD-23	SMRD-23-GW040111	Pb-214	Filtered	2.06	2.3	0.84	1.1
RD-23	SMRD-23-GW040111	Pb-214	Suspended	0.32 U	1.4	0.5	0.7
RD-23	SMRD-23-GW040111	Pb-214	Total	2.38	NA	0.98	NA
RD-23	SMRD-23-GW040111	Sb-125	Filtered	0.3 U	12	3.5	5.8
RD-23	SMRD-23-GW040111	Sb-125	Suspended	1 U	5.5	1.6	2.7
RD-23	SMRD-23-GW040111	Sb-125	Total	1.4	NA	3.9	NA
RD-23	SMRD-23-GW040111	Sn-126	Filtered	0.38 U	1.2	0.34	0.54
RD-23	SMRD-23-GW040111	Sn-126	Suspended	0.29 U	0.76	0.23	0.36
RD-23	SMRD-23-GW040111	Sn-126	Total	0.67	NA	0.41	NA
RD-23	SMRD-23-GW040111	Sr-90	Filtered	0.011	0.1	0.03	0.058
RD-23	SMRD-23-GW040111	Sr-90	Suspended	0.001 U	0.059	0.016	0.035
RD-23	SMRD-23-GW040111	Sr-90	Total	0.012	NA	0.034	NA
RD-23	SMRD-23-GW040111	Te-125m	Filtered	0.08 U	2.8	0.81	1.3
RD-23	SMRD-23-GW040111	Te-125m	Suspended	0.24 U	1.3	0.38	0.62
RD-23	SMRD-23-GW040111	Te-125m	Total	0.32	NA	0.9	NA
RD-23	SMRD-23-GW040111	Th-231	Filtered	0.0315	0.0071	0.0092	0.0061
RD-23	SMRD-23-GW040111	Th-231	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-23	SMRD-23-GW040111	Th-231	Total	0.034	NA	0.0095	NA
RD-23	SMRD-23-GW040111	Th-234	Filtered	1.4 U	21	7.2	10
RD-23	SMRD-23-GW040111	Th-234	Suspended	-0.2 U	7.5	2.4	3.7
RD-23	SMRD-23-GW040111	Th-234	Total	1.2	NA	7.6	NA
RD-23	SMRD-23-GW040111	Tl-208	Filtered	0.4 U	1.3	0.42	0.62

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-23	SMRD-23-GW040111	Tl-208	Suspended	0.67	0.71	0.29	0.34
RD-23	SMRD-23-GW040111	Tl-208	Total	1.07	NA	0.51	NA
RD-23	SMRD-23-GW040111	Tm-171	Filtered	-61 U	310	92	150
RD-23	SMRD-23-GW040111	Tm-171	Suspended	28 U	110	34	55
RD-23	SMRD-23-GW040111	Tm-171	Total	-33	NA	98	NA
RD-23	SMRD-23-GW040111	U-233/234	Filtered	0.819	0.014	0.054	0.004
RD-23	SMRD-23-GW040111	U-233/234	Suspended	-0.0099 U	0.026	0.0065	0.011
RD-23	SMRD-23-GW040111	U-233/234	Total	0.809	NA	0.055	NA
RD-23	SMRD-23-GW040111	U-235/236	Filtered	0.0314	0.0071	0.0092	0.0054
RD-23	SMRD-23-GW040111	U-235/236	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-23	SMRD-23-GW040111	U-235/236	Total	0.0339	NA	0.0095	NA
RD-23	SMRD-23-GW040111	U-238	Filtered	0.65	0.014	0.046	0.004
RD-23	SMRD-23-GW040111	U-238	Suspended	-0.0012 U	0.017	0.005	0.0059
RD-23	SMRD-23-GW040111	U-238	Total	0.649	NA	0.046	NA
RD-24	SMRD-24-GW032411	Ac-227	Filtered	0.1 U	12	3.5	5.7
RD-24	SMRD-24-GW032411	Ac-227	Suspended	-1.3 U	4.4	1.3	2.1
RD-24	SMRD-24-GW032411	Ac-227	Total	-1.2	NA	3.7	NA
RD-24	SMRD-24-GW032411	Ac-228	Filtered	3.6	4.1	1.3	1.9
RD-24	SMRD-24-GW032411	Ac-228	Suspended	0.59 U	2.6	0.76	1.2
RD-24	SMRD-24-GW032411	Ac-228	Total	4.2	NA	1.5	NA
RD-24	SMRD-24-GW032411	Ag-108	Filtered	0.035 R	0.066	0.02	0.031
RD-24	SMRD-24-GW032411	Ag-108	Suspended	-0.004 U R	0.047	0.014	0.022
RD-24	SMRD-24-GW032411	Ag-108	Total	0.03 R	NA	0.024	NA
RD-24	SMRD-24-GW032411	Ag-108m	Filtered	0.37 R	0.71	0.22	0.34
RD-24	SMRD-24-GW032411	Ag-108m	Suspended	-0.05 U R	0.5	0.15	0.24
RD-24	SMRD-24-GW032411	Ag-108m	Total	0.33 R	NA	0.26	NA
RD-24	SMRD-24-GW032411	Ba-133	Filtered	-2.1 U R	12	3.5	5.8
RD-24	SMRD-24-GW032411	Ba-133	Suspended	-1 U R	6.9	2	3.3
RD-24	SMRD-24-GW032411	Ba-133	Total	-3.1 R	NA	4.1	NA
RD-24	SMRD-24-GW032411	Ba-137m	Filtered	-0.17 U	1.1	0.33	0.53
RD-24	SMRD-24-GW032411	Ba-137m	Suspended	0.05 U	0.65	0.19	0.31
RD-24	SMRD-24-GW032411	Ba-137m	Total	-0.12	NA	0.38	NA
RD-24	SMRD-24-GW032411	Bi-212	Filtered	-0.1 U	9.9	2.9	4.7
RD-24	SMRD-24-GW032411	Bi-212	Suspended	3.5	5.4	1.7	2.5
RD-24	SMRD-24-GW032411	Bi-212	Total	3.4	NA	3.4	NA
RD-24	SMRD-24-GW032411	Bi-214	Filtered	1.15	2.4	0.76	1.1
RD-24	SMRD-24-GW032411	Bi-214	Suspended	0.21 U	1.8	0.47	0.87
RD-24	SMRD-24-GW032411	Bi-214	Total	1.36	NA	0.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW032411	Cd-113m	Filtered	-1300 U	13000	4000	6500
RD-24	SMRD-24-GW032411	Cd-113m	Suspended	200 U	7300	2100	3500
RD-24	SMRD-24-GW032411	Cd-113m	Total	-1100	NA	4500	NA
RD-24	SMRD-24-GW032411	Cf-249	Filtered	-0.8 U R	5.4	1.6	2.6
RD-24	SMRD-24-GW032411	Cf-249	Suspended	0.71 U R	3.1	0.92	1.5
RD-24	SMRD-24-GW032411	Cf-249	Total	-0.08 R	NA	1.8	NA
RD-24	SMRD-24-GW032411	Co-60	Filtered	-0.02 U	1	0.29	0.48
RD-24	SMRD-24-GW032411	Co-60	Suspended	0.15 U	0.74	0.21	0.33
RD-24	SMRD-24-GW032411	Co-60	Total	0.13	NA	0.36	NA
RD-24	SMRD-24-GW032411	Cs-134	Filtered	0.02 U	1.1	0.31	0.52
RD-24	SMRD-24-GW032411	Cs-134	Suspended	-0.11 U	0.81	0.24	0.38
RD-24	SMRD-24-GW032411	Cs-134	Total	-0.1	NA	0.39	NA
RD-24	SMRD-24-GW032411	Cs-137	Filtered	-0.18 U	1.2	0.35	0.56
RD-24	SMRD-24-GW032411	Cs-137	Suspended	0.05 U	0.69	0.2	0.32
RD-24	SMRD-24-GW032411	Cs-137	Total	-0.13	NA	0.4	NA
RD-24	SMRD-24-GW032411	Eu-152	Filtered	-0.33 U	3.3	0.97	1.6
RD-24	SMRD-24-GW032411	Eu-152	Suspended	0.39 U	1.8	0.52	0.84
RD-24	SMRD-24-GW032411	Eu-152	Total	0.06	NA	1.1	NA
RD-24	SMRD-24-GW032411	Eu-154	Filtered	-1.6 U	6.9	2	3.2
RD-24	SMRD-24-GW032411	Eu-154	Suspended	0 U	6	1.7	2.8
RD-24	SMRD-24-GW032411	Eu-154	Total	-1.6	NA	2.6	NA
RD-24	SMRD-24-GW032411	Eu-155	Filtered	0.54 U	2.9	0.87	1.4
RD-24	SMRD-24-GW032411	Eu-155	Suspended	0.21 U	1.4	0.43	0.7
RD-24	SMRD-24-GW032411	Eu-155	Total	0.76	NA	0.97	NA
RD-24	SMRD-24-GW032411	gross_alpha	Filtered	4.32	0.66	0.48	0.36
RD-24	SMRD-24-GW032411	gross_alpha	Suspended	1.01	0.48	0.22	0.25
RD-24	SMRD-24-GW032411	gross_alpha	Total	5.33	NA	0.53	NA
RD-24	SMRD-24-GW032411	gross_beta	Filtered	3.45	1.5	0.62	0.89
RD-24	SMRD-24-GW032411	gross_beta	Suspended	2.36	0.87	0.35	0.52
RD-24	SMRD-24-GW032411	gross_beta	Total	5.8	NA	0.71	NA
RD-24	SMRD-24-GW032411	H-3	Total	54 U	140	43	68
RD-24	SMRD-24-GW032411	Ho-166m	Filtered	-0.09 U	1.8	0.54	0.88
RD-24	SMRD-24-GW032411	Ho-166m	Suspended	-0.05 U	1.1	0.32	0.53
RD-24	SMRD-24-GW032411	Ho-166m	Total	-0.13	NA	0.63	NA
RD-24	SMRD-24-GW032411	K-40	Filtered	-0.5 U	16	4.9	7.4
RD-24	SMRD-24-GW032411	K-40	Suspended	2.8 U	11	3.1	5
RD-24	SMRD-24-GW032411	K-40	Total	2.3	NA	5.8	NA
RD-24	SMRD-24-GW032411	Na-22	Filtered	-0.01 U	1.1	0.32	0.53

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW032411	Na-22	Suspended	0 U	1.1	0.31	0.51
RD-24	SMRD-24-GW032411	Na-22	Total	-0.01	NA	0.44	NA
RD-24	SMRD-24-GW032411	Nb-94	Filtered	-0.37 U	1	0.3	0.48
RD-24	SMRD-24-GW032411	Nb-94	Suspended	0.003 U	0.66	0.19	0.31
RD-24	SMRD-24-GW032411	Nb-94	Total	-0.37	NA	0.36	NA
RD-24	SMRD-24-GW032411	Np-236	Filtered	0.5 U	2.3	0.68	1.1
RD-24	SMRD-24-GW032411	Np-236	Suspended	0.05 U	1.3	0.39	0.65
RD-24	SMRD-24-GW032411	Np-236	Total	0.55	NA	0.79	NA
RD-24	SMRD-24-GW032411	Np-239	Filtered	1.2 U	7	2.1	3.4
RD-24	SMRD-24-GW032411	Np-239	Suspended	-0.8 U	3.9	1.2	1.9
RD-24	SMRD-24-GW032411	Np-239	Total	0.5	NA	2.4	NA
RD-24	SMRD-24-GW032411	Pa-231	Filtered	7 U	45	13	22
RD-24	SMRD-24-GW032411	Pa-231	Suspended	-0.01 U	26	7.7	13
RD-24	SMRD-24-GW032411	Pa-231	Total	7	NA	15	NA
RD-24	SMRD-24-GW032411	Pb-212	Filtered	0.41 U	2.4	0.78	1.2
RD-24	SMRD-24-GW032411	Pb-212	Suspended	-0.002 U	1.2	0.36	0.58
RD-24	SMRD-24-GW032411	Pb-212	Total	0.4	NA	0.86	NA
RD-24	SMRD-24-GW032411	Pb-214	Filtered	2.3	2.3	0.86	1.1
RD-24	SMRD-24-GW032411	Pb-214	Suspended	0.14 U	1.6	0.44	0.79
RD-24	SMRD-24-GW032411	Pb-214	Total	2.44	NA	0.97	NA
RD-24	SMRD-24-GW032411	Sb-125	Filtered	-2.2 U	12	3.5	5.6
RD-24	SMRD-24-GW032411	Sb-125	Suspended	-0.09 U	4.7	1.4	2.3
RD-24	SMRD-24-GW032411	Sb-125	Total	-2.3	NA	3.7	NA
RD-24	SMRD-24-GW032411	Sn-126	Filtered	0.43 U	1.1	0.33	0.52
RD-24	SMRD-24-GW032411	Sn-126	Suspended	0.08 U	0.78	0.23	0.37
RD-24	SMRD-24-GW032411	Sn-126	Total	0.51	NA	0.4	NA
RD-24	SMRD-24-GW032411	Sr-90	Filtered	0.12	0.075	0.026	0.042
RD-24	SMRD-24-GW032411	Sr-90	Suspended	-0.003 U	0.062	0.018	0.035
RD-24	SMRD-24-GW032411	Sr-90	Total	0.117	NA	0.031	NA
RD-24	SMRD-24-GW032411	Te-125m	Filtered	-0.51 U	2.7	0.8	1.3
RD-24	SMRD-24-GW032411	Te-125m	Suspended	-0.02 U	1.1	0.32	0.52
RD-24	SMRD-24-GW032411	Te-125m	Total	-0.53	NA	0.86	NA
RD-24	SMRD-24-GW032411	Th-231	Filtered	0.088	0.016	0.015	0.005
RD-24	SMRD-24-GW032411	Th-231	Suspended	0.0023 U	0.0061	0.0023	0.0052
RD-24	SMRD-24-GW032411	Th-231	Total	0.09	NA	0.015	NA
RD-24	SMRD-24-GW032411	Th-234	Filtered	10.5 U	22	7.6	11
RD-24	SMRD-24-GW032411	Th-234	Suspended	0.2 U	8.1	2.5	3.9
RD-24	SMRD-24-GW032411	Th-234	Total	10.7	NA	7.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-24	SMRD-24-GW032411	Tl-208	Filtered	-0.15 U	1.3	0.41	0.61
RD-24	SMRD-24-GW032411	Tl-208	Suspended	0.21 U	0.92	0.25	0.44
RD-24	SMRD-24-GW032411	Tl-208	Total	0.06	NA	0.48	NA
RD-24	SMRD-24-GW032411	Tm-171	Filtered	-10 U	360	110	180
RD-24	SMRD-24-GW032411	Tm-171	Suspended	-24 U	140	41	67
RD-24	SMRD-24-GW032411	Tm-171	Total	-40	NA	120	NA
RD-24	SMRD-24-GW032411	U-233/234	Filtered	1.51	0.016	0.083	0.006
RD-24	SMRD-24-GW032411	U-233/234	Suspended	0.0101	0.0049	0.006	0.0038
RD-24	SMRD-24-GW032411	U-233/234	Total	1.52	NA	0.083	NA
RD-24	SMRD-24-GW032411	U-235/236	Filtered	0.088	0.016	0.015	0.005
RD-24	SMRD-24-GW032411	U-235/236	Suspended	0.0022 U	0.0061	0.0023	0.0047
RD-24	SMRD-24-GW032411	U-235/236	Total	0.09	NA	0.015	NA
RD-24	SMRD-24-GW032411	U-238	Filtered	1.23	0.005	0.071	0.004
RD-24	SMRD-24-GW032411	U-238	Suspended	0.0072	0.0049	0.0051	0.0038
RD-24	SMRD-24-GW032411	U-238	Total	1.23	NA	0.071	NA
RD-27	SMRD-27-GW031711	Ac-227	Filtered	0 U	9.6	2.8	4.7
RD-27	SMRD-27-GW031711	Ac-227	Suspended	0.66 U	2.4	0.72	1.2
RD-27	SMRD-27-GW031711	Ac-227	Total	0.7	NA	2.9	NA
RD-27	SMRD-27-GW031711	Ac-228	Filtered	3.4	4.7	1.5	2.2
RD-27	SMRD-27-GW031711	Ac-228	Suspended	5.06	1.7	0.96	0.76
RD-27	SMRD-27-GW031711	Ac-228	Total	8.4	NA	1.8	NA
RD-27	SMRD-27-GW031711	Ag-108	Filtered	0.017 R	0.094	0.028	0.044
RD-27	SMRD-27-GW031711	Ag-108	Suspended	0.016 R	0.04	0.012	0.019
RD-27	SMRD-27-GW031711	Ag-108	Total	0.034 R	NA	0.03	NA
RD-27	SMRD-27-GW031711	Ag-108m	Filtered	0.18 R	1	0.3	0.48
RD-27	SMRD-27-GW031711	Ag-108m	Suspended	0.18 R	0.43	0.13	0.2
RD-27	SMRD-27-GW031711	Ag-108m	Total	0.36 R	NA	0.32	NA
RD-27	SMRD-27-GW031711	Ba-133	Filtered	3.2 R	12	3.7	5.9
RD-27	SMRD-27-GW031711	Ba-133	Suspended	-0.2 R	5.7	1.7	2.8
RD-27	SMRD-27-GW031711	Ba-133	Total	3 R	NA	4	NA
RD-27	SMRD-27-GW031711	Ba-137m	Filtered	0.77	1.2	0.38	0.57
RD-27	SMRD-27-GW031711	Ba-137m	Suspended	0.01 U	0.64	0.19	0.31
RD-27	SMRD-27-GW031711	Ba-137m	Total	0.79	NA	0.42	NA
RD-27	SMRD-27-GW031711	Bi-212	Filtered	2.1 U	9.5	2.8	4.4
RD-27	SMRD-27-GW031711	Bi-212	Suspended	0.3 U	5.5	1.5	2.6
RD-27	SMRD-27-GW031711	Bi-212	Total	2.4	NA	3.2	NA
RD-27	SMRD-27-GW031711	Bi-214	Filtered	2.27	2.4	0.78	1.1
RD-27	SMRD-27-GW031711	Bi-214	Suspended	1.22	1.6	0.56	0.76

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-27-GW031711	Bi-214	Total	3.49	NA	0.96	NA
RD-27	SMRD-27-GW031711	Cd-113m	Filtered	-2000 U	15000	4400	7100
RD-27	SMRD-27-GW031711	Cd-113m	Suspended	-900 U	7400	2200	3600
RD-27	SMRD-27-GW031711	Cd-113m	Total	-2900	NA	4900	NA
RD-27	SMRD-27-GW031711	Cf-249	Filtered	-2.3 R	6.2	1.9	3
RD-27	SMRD-27-GW031711	Cf-249	Suspended	-0.38 R	3.1	0.92	1.5
RD-27	SMRD-27-GW031711	Cf-249	Total	-2.7 R	NA	2.1	NA
RD-27	SMRD-27-GW031711	Co-60	Filtered	0.009 U	1.5	0.42	0.7
RD-27	SMRD-27-GW031711	Co-60	Suspended	0 U	0.72	0.2	0.33
RD-27	SMRD-27-GW031711	Co-60	Total	0.009	NA	0.47	NA
RD-27	SMRD-27-GW031711	Cs-134	Filtered	-0.35 U	1.4	0.41	0.66
RD-27	SMRD-27-GW031711	Cs-134	Suspended	0.26 U	0.63	0.19	0.3
RD-27	SMRD-27-GW031711	Cs-134	Total	-0.08	NA	0.45	NA
RD-27	SMRD-27-GW031711	Cs-137	Filtered	0.82	1.3	0.4	0.6
RD-27	SMRD-27-GW031711	Cs-137	Suspended	0.01 U	0.68	0.2	0.32
RD-27	SMRD-27-GW031711	Cs-137	Total	0.83	NA	0.44	NA
RD-27	SMRD-27-GW031711	Eu-152	Filtered	0.03 U	3.5	1	1.7
RD-27	SMRD-27-GW031711	Eu-152	Suspended	0.03 U	1.7	0.5	0.82
RD-27	SMRD-27-GW031711	Eu-152	Total	0.06	NA	1.1	NA
RD-27	SMRD-27-GW031711	Eu-154	Filtered	-1.9 U	13	3.7	5.9
RD-27	SMRD-27-GW031711	Eu-154	Suspended	-1.4 U	5.8	1.7	2.7
RD-27	SMRD-27-GW031711	Eu-154	Total	-3.4	NA	4.1	NA
RD-27	SMRD-27-GW031711	Eu-155	Filtered	0.18 U	2.4	0.69	1.1
RD-27	SMRD-27-GW031711	Eu-155	Suspended	-0.16 U	1.2	0.34	0.56
RD-27	SMRD-27-GW031711	Eu-155	Total	0.02	NA	0.77	NA
RD-27	SMRD-27-GW031711	gross_alpha	Filtered	4.43	0.55	0.43	0.3
RD-27	SMRD-27-GW031711	gross_alpha	Suspended	2.37	1	0.5	0.51
RD-27	SMRD-27-GW031711	gross_alpha	Total	6.8	NA	0.66	NA
RD-27	SMRD-27-GW031711	gross_beta	Filtered	5.56	1.9	0.83	1.1
RD-27	SMRD-27-GW031711	gross_beta	Suspended	1.46	0.79	0.3	0.46
RD-27	SMRD-27-GW031711	gross_beta	Total	7.02	NA	0.88	NA
RD-27	SMRD-27-GW031711	H-3	Total	12 U	140	41	67
RD-27	SMRD-27-GW031711	Ho-166m	Filtered	0.56 U	2	0.58	0.91
RD-27	SMRD-27-GW031711	Ho-166m	Suspended	0.29 U	1.1	0.33	0.53
RD-27	SMRD-27-GW031711	Ho-166m	Total	0.85	NA	0.67	NA
RD-27	SMRD-27-GW031711	K-40	Filtered	18.4	17	6.2	7.6
RD-27	SMRD-27-GW031711	K-40	Suspended	-7.1 U	11	6.4	5.1
RD-27	SMRD-27-GW031711	K-40	Total	11.3	NA	8.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-27-GW031711	Na-22	Filtered	0.18 U	1.5	0.42	0.68
RD-27	SMRD-27-GW031711	Na-22	Suspended	0.09 U	0.68	0.2	0.31
RD-27	SMRD-27-GW031711	Na-22	Total	0.27	NA	0.47	NA
RD-27	SMRD-27-GW031711	Nb-94	Filtered	0.01 U	1.2	0.33	0.54
RD-27	SMRD-27-GW031711	Nb-94	Suspended	0.04 U	0.6	0.17	0.29
RD-27	SMRD-27-GW031711	Nb-94	Total	0.05	NA	0.37	NA
RD-27	SMRD-27-GW031711	Np-236	Filtered	0.39 U	2.7	0.79	1.3
RD-27	SMRD-27-GW031711	Np-236	Suspended	-0.24 U	1.1	0.33	0.54
RD-27	SMRD-27-GW031711	Np-236	Total	0.16	NA	0.86	NA
RD-27	SMRD-27-GW031711	Np-239	Filtered	-2.4 U	7.6	2.3	3.7
RD-27	SMRD-27-GW031711	Np-239	Suspended	0.3 U	3.7	1.1	1.8
RD-27	SMRD-27-GW031711	Np-239	Total	-2.1	NA	2.5	NA
RD-27	SMRD-27-GW031711	Pa-231	Filtered	0.7 U	45	13	21
RD-27	SMRD-27-GW031711	Pa-231	Suspended	6.7 U	25	7.5	12
RD-27	SMRD-27-GW031711	Pa-231	Total	7	NA	15	NA
RD-27	SMRD-27-GW031711	Pb-212	Filtered	0.98	2	0.69	0.97
RD-27	SMRD-27-GW031711	Pb-212	Suspended	0.29 U	1.1	0.35	0.52
RD-27	SMRD-27-GW031711	Pb-212	Total	1.27	NA	0.77	NA
RD-27	SMRD-27-GW031711	Pb-214	Filtered	0.87 U	2.8	0.81	1.4
RD-27	SMRD-27-GW031711	Pb-214	Suspended	0.14 U	1.5	0.53	0.72
RD-27	SMRD-27-GW031711	Pb-214	Total	1.01	NA	0.97	NA
RD-27	SMRD-27-GW031711	Sb-125	Filtered	0.02 U	12	3.5	5.8
RD-27	SMRD-27-GW031711	Sb-125	Suspended	0.8 U	5.4	1.6	2.6
RD-27	SMRD-27-GW031711	Sb-125	Total	0.8	NA	3.9	NA
RD-27	SMRD-27-GW031711	Sn-126	Filtered	-0.18 U	1.5	0.45	0.73
RD-27	SMRD-27-GW031711	Sn-126	Suspended	0.16 U	0.73	0.22	0.35
RD-27	SMRD-27-GW031711	Sn-126	Total	-0.02	NA	0.5	NA
RD-27	SMRD-27-GW031711	Sr-90	Filtered	-0.094 U	0.19	0.052	0.11
RD-27	SMRD-27-GW031711	Sr-90	Suspended	0.084	0.14	0.043	0.081
RD-27	SMRD-27-GW031711	Sr-90	Total	-0.009	NA	0.067	NA
RD-27	SMRD-27-GW031711	Te-125m	Filtered	0.003 U	2.8	0.81	1.3
RD-27	SMRD-27-GW031711	Te-125m	Suspended	0.18 U	1.3	0.37	0.61
RD-27	SMRD-27-GW031711	Te-125m	Total	0.19	NA	0.89	NA
RD-27	SMRD-27-GW031711	Th-231	Filtered	0.052	0.006	0.011	0.005
RD-27	SMRD-27-GW031711	Th-231	Suspended	0 U	0.0078	0.0029	0.0067
RD-27	SMRD-27-GW031711	Th-231	Total	0.052	NA	0.011	NA
RD-27	SMRD-27-GW031711	Th-234	Filtered	-1.8 U	20	6.3	9.9
RD-27	SMRD-27-GW031711	Th-234	Suspended	-0.7 U	7.7	2.3	3.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-27	SMRD-27-GW031711	Th-234	Total	-2.5	NA	6.7	NA
RD-27	SMRD-27-GW031711	Tl-208	Filtered	-0.08 U	1.5	0.47	0.7
RD-27	SMRD-27-GW031711	Tl-208	Suspended	0.14 U	0.72	0.25	0.35
RD-27	SMRD-27-GW031711	Tl-208	Total	0.06	NA	0.53	NA
RD-27	SMRD-27-GW031711	Tm-171	Filtered	52 U	310	92	150
RD-27	SMRD-27-GW031711	Tm-171	Suspended	37 U	100	31	50
RD-27	SMRD-27-GW031711	Tm-171	Total	89	NA	97	NA
RD-27	SMRD-27-GW031711	U-233/234	Filtered	1.74	0.017	0.092	0.007
RD-27	SMRD-27-GW031711	U-233/234	Suspended	0.0058 U	0.022	0.0077	0.0077
RD-27	SMRD-27-GW031711	U-233/234	Total	1.75	NA	0.093	NA
RD-27	SMRD-27-GW031711	U-235/236	Filtered	0.052	0.006	0.011	0.005
RD-27	SMRD-27-GW031711	U-235/236	Suspended	0 U	0.0078	0.0029	0.0067
RD-27	SMRD-27-GW031711	U-235/236	Total	0.052	NA	0.011	NA
RD-27	SMRD-27-GW031711	U-238	Filtered	1.26	0.015	0.071	0.005
RD-27	SMRD-27-GW031711	U-238	Suspended	0.0155	0.0063	0.0074	0.0054
RD-27	SMRD-27-GW031711	U-238	Total	1.27	NA	0.072	NA
RD-29	SMRD-29-GW032511	Ac-227	Filtered	-9.5 L U	10	3.2	5.1
RD-29	SMRD-29-GW032511	Ac-227	Suspended	-2.2 U	4.3	1.3	2.1
RD-29	SMRD-29-GW032511	Ac-227	Total	-11.7 R	NA	3.5	NA
RD-29	SMRD-29-GW032511	Ac-228	Filtered	2.8	3.7	1.2	1.7
RD-29	SMRD-29-GW032511	Ac-228	Suspended	0.53 U	2.7	0.69	1.3
RD-29	SMRD-29-GW032511	Ac-228	Total	3.4	NA	1.3	NA
RD-29	SMRD-29-GW032511	Ag-108	Filtered	-0.01 U R	0.084	0.025	0.04
RD-29	SMRD-29-GW032511	Ag-108	Suspended	-0.002 U R	0.052	0.015	0.025
RD-29	SMRD-29-GW032511	Ag-108	Total	-0.012 R	NA	0.029	NA
RD-29	SMRD-29-GW032511	Ag-108m	Filtered	-0.11 U R	0.9	0.27	0.43
RD-29	SMRD-29-GW032511	Ag-108m	Suspended	-0.02 U R	0.56	0.16	0.27
RD-29	SMRD-29-GW032511	Ag-108m	Total	-0.13 R	NA	0.31	NA
RD-29	SMRD-29-GW032511	Am-241	Filtered	0.0203	0.017	0.0075	0.0053
RD-29	SMRD-29-GW032511	Am-241	Suspended	-0.002 U	0.018	0.0038	0.007
RD-29	SMRD-29-GW032511	Am-241	Total	0.0183	NA	0.0084	NA
RD-29	SMRD-29-GW032511	Ba-133	Filtered	-2.8 U R	12	3.5	5.6
RD-29	SMRD-29-GW032511	Ba-133	Suspended	2.7 R	5.5	1.7	2.7
RD-29	SMRD-29-GW032511	Ba-133	Total	-0.08 R	NA	3.8	NA
RD-29	SMRD-29-GW032511	Ba-137m	Filtered	-0.009 U	1.1	0.31	0.52
RD-29	SMRD-29-GW032511	Ba-137m	Suspended	-0.004 U	0.71	0.21	0.34
RD-29	SMRD-29-GW032511	Ba-137m	Total	-0.01	NA	0.38	NA
RD-29	SMRD-29-GW032511	Bi-212	Filtered	-1.2 U	9.4	4.4	4.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW032511	Bi-212	Suspended	1.8 U	6	1.8	2.9
RD-29	SMRD-29-GW032511	Bi-212	Total	0.6	NA	4.7	NA
RD-29	SMRD-29-GW032511	Bi-214	Filtered	1.3	2.8	1.1	1.3
RD-29	SMRD-29-GW032511	Bi-214	Suspended	1	1.5	0.55	0.73
RD-29	SMRD-29-GW032511	Bi-214	Total	2.3	NA	1.2	NA
RD-29	SMRD-29-GW032511	C-14	Total	1.21 R	2.2	0.68	1.1
RD-29	SMRD-29-GW032511	Cd-113m	Filtered	2500 U	13000	3800	6100
RD-29	SMRD-29-GW032511	Cd-113m	Suspended	600 U	6900	2000	3300
RD-29	SMRD-29-GW032511	Cd-113m	Total	3100	NA	4300	NA
RD-29	SMRD-29-GW032511	Cf-249	Filtered	0 U R	5.3	1.6	2.6
RD-29	SMRD-29-GW032511	Cf-249	Suspended	-1.12 U R	3.2	0.98	1.6
RD-29	SMRD-29-GW032511	Cf-249	Total	-1.1 R	NA	1.8	NA
RD-29	SMRD-29-GW032511	Cm-243/244	Filtered	-0.0221 L U	0.045	0.0094	0.019
RD-29	SMRD-29-GW032511	Cm-243/244	Suspended	0 U	0.0044	0.0016	0.0038
RD-29	SMRD-29-GW032511	Cm-243/244	Total	-0.0221 L	NA	0.0096	NA
RD-29	SMRD-29-GW032511	Cm-245/246	Filtered	0.0166 J	0.0056	0.0059	0.0048
RD-29	SMRD-29-GW032511	Cm-245/246	Suspended	0.0251	0.0052	0.0071	0.0045
RD-29	SMRD-29-GW032511	Cm-245/246	Total	0.0417 J	NA	0.0092	NA
RD-29	SMRD-29-GW032511	Co-60	Filtered	0.13 U	1.1	0.31	0.51
RD-29	SMRD-29-GW032511	Co-60	Suspended	-0.09 U	0.8	0.23	0.38
RD-29	SMRD-29-GW032511	Co-60	Total	0.03	NA	0.39	NA
RD-29	SMRD-29-GW032511	Cs-134	Filtered	-0.18 U	1.2	0.36	0.59
RD-29	SMRD-29-GW032511	Cs-134	Suspended	0.15 U	0.79	0.23	0.38
RD-29	SMRD-29-GW032511	Cs-134	Total	-0.03 SK	NA	0.43	NA
RD-29	SMRD-29-GW032511	Cs-137	Filtered	-0.009 U	1.1	0.33	0.55
RD-29	SMRD-29-GW032511	Cs-137	Suspended	-0.004 U	0.75	0.22	0.36
RD-29	SMRD-29-GW032511	Cs-137	Total	-0.01	NA	0.4	NA
RD-29	SMRD-29-GW032511	Eu-152	Filtered	0.07 U	2.7	0.78	1.3
RD-29	SMRD-29-GW032511	Eu-152	Suspended	-0.42 U	1.7	0.5	0.81
RD-29	SMRD-29-GW032511	Eu-152	Total	-0.34	NA	0.93	NA
RD-29	SMRD-29-GW032511	Eu-154	Filtered	-2.3 U	10	2.9	4.7
RD-29	SMRD-29-GW032511	Eu-154	Suspended	3.3 J	5.3	1.6	2.5
RD-29	SMRD-29-GW032511	Eu-154	Total	1	NA	3.4	NA
RD-29	SMRD-29-GW032511	Eu-155	Filtered	-0.3 U	3	0.9	1.5
RD-29	SMRD-29-GW032511	Eu-155	Suspended	0.6 U	1.3	0.4	0.64
RD-29	SMRD-29-GW032511	Eu-155	Total	0.29 SK	NA	0.99	NA
RD-29	SMRD-29-GW032511	gross_alpha	Filtered	14	0.42	0.86	0.22
RD-29	SMRD-29-GW032511	gross_alpha	Suspended	0.86	0.89	0.32	0.46

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW032511	gross_alpha	Total	14.8	NA	0.92	NA
RD-29	SMRD-29-GW032511	gross_beta	Filtered	6.39	1.3	0.64	0.74
RD-29	SMRD-29-GW032511	gross_beta	Suspended	1.8	1	0.39	0.61
RD-29	SMRD-29-GW032511	gross_beta	Total	8.2	NA	0.75	NA
RD-29	SMRD-29-GW032511	H-3	Total	16 U	110	34	55
RD-29	SMRD-29-GW032511	Ho-166m	Filtered	-0.37 U	1.8	0.54	0.86
RD-29	SMRD-29-GW032511	Ho-166m	Suspended	0.32 U	1.2	0.34	0.55
RD-29	SMRD-29-GW032511	Ho-166m	Total	-0.06 SK	NA	0.64	NA
RD-29	SMRD-29-GW032511	I-129	Filtered	-0.09 U	0.55	0.17	0.27
RD-29	SMRD-29-GW032511	I-129	Suspended	-0.08 U	0.41	0.12	0.2
RD-29	SMRD-29-GW032511	I-129	Total	-0.16	NA	0.21	NA
RD-29	SMRD-29-GW032511	K-40	Filtered	15.2	13	3.5	6.2
RD-29	SMRD-29-GW032511	K-40	Suspended	5.8 U	12	4	5.9
RD-29	SMRD-29-GW032511	K-40	Total	21	NA	5.3	NA
RD-29	SMRD-29-GW032511	Na-22	Filtered	-0.16 U	1.1	0.32	0.51
RD-29	SMRD-29-GW032511	Na-22	Suspended	0.03 U	0.76	0.22	0.35
RD-29	SMRD-29-GW032511	Na-22	Total	-0.13	NA	0.39	NA
RD-29	SMRD-29-GW032511	Nb-94	Filtered	-0.14 U	1.1	0.33	0.55
RD-29	SMRD-29-GW032511	Nb-94	Suspended	0.17 U	0.63	0.19	0.3
RD-29	SMRD-29-GW032511	Nb-94	Total	0.03	NA	0.38	NA
RD-29	SMRD-29-GW032511	Np-236	Filtered	-0.54 U	2.5	0.74	1.2
RD-29	SMRD-29-GW032511	Np-236	Suspended	0.57	1.1	0.32	0.51
RD-29	SMRD-29-GW032511	Np-236	Total	0.03 SK	NA	0.81	NA
RD-29	SMRD-29-GW032511	Np-237	Filtered	-0.0024 U	0.026	0.0024	0.0058
RD-29	SMRD-29-GW032511	Np-237	Suspended	-0.0019 U	0.021	0.0019	0.0055
RD-29	SMRD-29-GW032511	Np-237	Total	-0.0043	NA	0.003	NA
RD-29	SMRD-29-GW032511	Np-239	Filtered	0.6 U	6.9	2	3.3
RD-29	SMRD-29-GW032511	Np-239	Suspended	0 U	3.8	1.1	1.9
RD-29	SMRD-29-GW032511	Np-239	Total	0.6	NA	2.3	NA
RD-29	SMRD-29-GW032511	Pa-231	Filtered	0.3 U	50	15	24
RD-29	SMRD-29-GW032511	Pa-231	Suspended	-0.5 U	25	7.3	12
RD-29	SMRD-29-GW032511	Pa-231	Total	-0.1	NA	16	NA
RD-29	SMRD-29-GW032511	Pb-212	Filtered	1.97	2.2	0.68	1.1
RD-29	SMRD-29-GW032511	Pb-212	Suspended	0.86	1.1	0.37	0.52
RD-29	SMRD-29-GW032511	Pb-212	Total	2.84	NA	0.78	NA
RD-29	SMRD-29-GW032511	Pb-214	Filtered	1.01 U	2.3	0.84	1.1
RD-29	SMRD-29-GW032511	Pb-214	Suspended	0.82	1.4	0.57	0.69
RD-29	SMRD-29-GW032511	Pb-214	Total	1.8	NA	1	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW032511	Pu-238	Filtered	0.0152	0.028	0.0091	0.01
RD-29	SMRD-29-GW032511	Pu-238	Suspended	0.0209	0.011	0.0061	0.0035
RD-29	SMRD-29-GW032511	Pu-238	Total	0.036	NA	0.011	NA
RD-29	SMRD-29-GW032511	Pu-239/240	Filtered	0.003 U	0.0082	0.003	0.0071
RD-29	SMRD-29-GW032511	Pu-239/240	Suspended	0.0045	0.004	0.0026	0.0039
RD-29	SMRD-29-GW032511	Pu-239/240	Total	0.0075	NA	0.004	NA
RD-29	SMRD-29-GW032511	Pu-242	Filtered	-0.003 U	0.022	0.003	0.0071
RD-29	SMRD-29-GW032511	Pu-242	Suspended	0.003 U	0.004	0.0021	0.0039
RD-29	SMRD-29-GW032511	Pu-242	Total	0	NA	0.0037	NA
RD-29	SMRD-29-GW032511	Ra-226	Filtered	0.381	0.11	0.067	0.052
RD-29	SMRD-29-GW032511	Ra-226	Suspended	0.139	0.19	0.062	0.1
RD-29	SMRD-29-GW032511	Ra-226	Total	0.52	NA	0.092	NA
RD-29	SMRD-29-GW032511	Sb-125	Filtered	0.2 U	12	3.6	5.9
RD-29	SMRD-29-GW032511	Sb-125	Suspended	1.1 U	4.9	1.5	2.4
RD-29	SMRD-29-GW032511	Sb-125	Total	1.2 SK	NA	3.9	NA
RD-29	SMRD-29-GW032511	Sn-126	Filtered	0.27 U	1.1	0.32	0.51
RD-29	SMRD-29-GW032511	Sn-126	Suspended	-0.07 U	0.83	0.24	0.4
RD-29	SMRD-29-GW032511	Sn-126	Total	0.2	NA	0.4	NA
RD-29	SMRD-29-GW032511	Sr-90	Filtered	0.094	0.14	0.042	0.077
RD-29	SMRD-29-GW032511	Sr-90	Suspended	0.078	0.12	0.037	0.068
RD-29	SMRD-29-GW032511	Sr-90	Total	0.173	NA	0.056	NA
RD-29	SMRD-29-GW032511	Tc-99	Filtered	-0.27 U	1.4	0.42	0.68
RD-29	SMRD-29-GW032511	Tc-99	Suspended	-0.55 U	1.6	0.46	0.76
RD-29	SMRD-29-GW032511	Tc-99	Total	-0.81	NA	0.62	NA
RD-29	SMRD-29-GW032511	Te-125m	Filtered	0.04 U	2.8	0.82	1.4
RD-29	SMRD-29-GW032511	Te-125m	Suspended	0.25 U	1.1	0.34	0.55
RD-29	SMRD-29-GW032511	Te-125m	Total	0.29 SK	NA	0.89	NA
RD-29	SMRD-29-GW032511	Th-231	Filtered	0.347	0.026	0.035	0.01
RD-29	SMRD-29-GW032511	Th-231	Suspended	0.0048	0.014	0.0042	0.0045
RD-29	SMRD-29-GW032511	Th-231	Total	0.352	NA	0.035	NA
RD-29	SMRD-29-GW032511	Th-234	Filtered	3.5 U	21	6.9	10
RD-29	SMRD-29-GW032511	Th-234	Suspended	3.6 U	8.6	2.7	4.2
RD-29	SMRD-29-GW032511	Th-234	Total	7.1	NA	7.4	NA
RD-29	SMRD-29-GW032511	Tl-208	Filtered	0.34 U	1.4	0.47	0.67
RD-29	SMRD-29-GW032511	Tl-208	Suspended	0.37	0.77	0.28	0.37
RD-29	SMRD-29-GW032511	Tl-208	Total	0.71	NA	0.55	NA
RD-29	SMRD-29-GW032511	Tm-171	Filtered	90 U	350	110	170
RD-29	SMRD-29-GW032511	Tm-171	Suspended	52 U	110	35	55

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-29	SMRD-29-GW032511	Tm-171	Total	140	NA	110	NA
RD-29	SMRD-29-GW032511	U-233/234	Filtered	8.75	0.01	0.39	0.005
RD-29	SMRD-29-GW032511	U-233/234	Suspended	0.0149	0.0047	0.0066	0.0036
RD-29	SMRD-29-GW032511	U-233/234	Total	8.76	NA	0.39	NA
RD-29	SMRD-29-GW032511	U-235/236	Filtered	0.347	0.026	0.035	0.01
RD-29	SMRD-29-GW032511	U-235/236	Suspended	0.0048	0.014	0.0042	0.0045
RD-29	SMRD-29-GW032511	U-235/236	Total	0.352	NA	0.035	NA
RD-29	SMRD-29-GW032511	U-238	Filtered	8.04	0.006	0.36	0.005
RD-29	SMRD-29-GW032511	U-238	Suspended	0.0208	0.0047	0.007	0.0036
RD-29	SMRD-29-GW032511	U-238	Total	8.06	NA	0.36	NA
RD-33A	SMRD-33A-GW033111	Ac-227	Filtered	10.3	4.8	1.8	2.3
RD-33A	SMRD-33A-GW033111	Ac-227	Suspended	0.1 U	5.3	1.6	2.6
RD-33A	SMRD-33A-GW033111	Ac-227	Total	10.4	NA	2.4	NA
RD-33A	SMRD-33A-GW033111	Ac-228	Filtered	5.7	4.8	1.6	2.2
RD-33A	SMRD-33A-GW033111	Ac-228	Suspended	0.74 U	2.8	0.75	1.4
RD-33A	SMRD-33A-GW033111	Ac-228	Total	6.5	NA	1.8	NA
RD-33A	SMRD-33A-GW033111	Ag-108	Filtered	0.012 U R	0.11	0.033	0.054
RD-33A	SMRD-33A-GW033111	Ag-108	Suspended	0.0009 U R	0.053	0.015	0.025
RD-33A	SMRD-33A-GW033111	Ag-108	Total	0.013 R	NA	0.036	NA
RD-33A	SMRD-33A-GW033111	Ag-108m	Filtered	0.13 U R	1.2	0.36	0.58
RD-33A	SMRD-33A-GW033111	Ag-108m	Suspended	0.01 U R	0.57	0.17	0.27
RD-33A	SMRD-33A-GW033111	Ag-108m	Total	0.14 R	NA	0.39	NA
RD-33A	SMRD-33A-GW033111	Ba-133	Filtered	-5.9 U R	16	4.9	7.9
RD-33A	SMRD-33A-GW033111	Ba-133	Suspended	-0.8 U R	6	1.8	2.9
RD-33A	SMRD-33A-GW033111	Ba-133	Total	-6.8 R	NA	5.2	NA
RD-33A	SMRD-33A-GW033111	Ba-137m	Filtered	0.35 U	1.4	0.42	0.67
RD-33A	SMRD-33A-GW033111	Ba-137m	Suspended	-0.11 U	0.73	0.22	0.35
RD-33A	SMRD-33A-GW033111	Ba-137m	Total	0.24	NA	0.47	NA
RD-33A	SMRD-33A-GW033111	Bi-212	Filtered	3.5 U	12	3.6	5.7
RD-33A	SMRD-33A-GW033111	Bi-212	Suspended	-0.09 U	6.2	1.8	3
RD-33A	SMRD-33A-GW033111	Bi-212	Total	3.4	NA	4	NA
RD-33A	SMRD-33A-GW033111	Bi-214	Filtered	3.9	4	1.8	1.9
RD-33A	SMRD-33A-GW033111	Bi-214	Suspended	2.03	1.8	0.79	0.87
RD-33A	SMRD-33A-GW033111	Bi-214	Total	6	NA	1.9	NA
RD-33A	SMRD-33A-GW033111	Cd-113m	Filtered	1800 U	18000	5300	8700
RD-33A	SMRD-33A-GW033111	Cd-113m	Suspended	-1100 U	6900	2100	3300
RD-33A	SMRD-33A-GW033111	Cd-113m	Total	700	NA	5700	NA
RD-33A	SMRD-33A-GW033111	Cf-249	Filtered	-0.2 U R	7.5	2.2	3.6

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW033111	Cf-249	Suspended	-0.21 U R	3.1	0.91	1.5
RD-33A	SMRD-33A-GW033111	Cf-249	Total	-0.4 R	NA	2.4	NA
RD-33A	SMRD-33A-GW033111	Co-60	Filtered	0 U	1.8	0.51	0.84
RD-33A	SMRD-33A-GW033111	Co-60	Suspended	-0.003 U	0.64	0.18	0.29
RD-33A	SMRD-33A-GW033111	Co-60	Total	-0.003	NA	0.54	NA
RD-33A	SMRD-33A-GW033111	Cs-134	Filtered	-0.28 U	1.8	0.52	0.84
RD-33A	SMRD-33A-GW033111	Cs-134	Suspended	-0.21 U	0.76	0.23	0.37
RD-33A	SMRD-33A-GW033111	Cs-134	Total	-0.49	NA	0.57	NA
RD-33A	SMRD-33A-GW033111	Cs-137	Filtered	0.37 U	1.5	0.45	0.71
RD-33A	SMRD-33A-GW033111	Cs-137	Suspended	-0.12 U	0.78	0.23	0.37
RD-33A	SMRD-33A-GW033111	Cs-137	Total	0.25	NA	0.5	NA
RD-33A	SMRD-33A-GW033111	Eu-152	Filtered	0.2 U	4	1.2	1.9
RD-33A	SMRD-33A-GW033111	Eu-152	Suspended	-0.38 U	1.9	0.55	0.9
RD-33A	SMRD-33A-GW033111	Eu-152	Total	-0.1	NA	1.3	NA
RD-33A	SMRD-33A-GW033111	Eu-154	Filtered	-1.9 U	12	3.5	5.6
RD-33A	SMRD-33A-GW033111	Eu-154	Suspended	-1.5 U	6.3	1.9	3
RD-33A	SMRD-33A-GW033111	Eu-154	Total	-3.4	NA	4	NA
RD-33A	SMRD-33A-GW033111	Eu-155	Filtered	1.3 U	3.8	1.2	1.9
RD-33A	SMRD-33A-GW033111	Eu-155	Suspended	-0.25 U	1.4	0.43	0.7
RD-33A	SMRD-33A-GW033111	Eu-155	Total	1	NA	1.2	NA
RD-33A	SMRD-33A-GW033111	gross_alpha	Filtered	5.02	0.43	0.45	0.22
RD-33A	SMRD-33A-GW033111	gross_alpha	Suspended	0.14 U	0.42	0.12	0.22
RD-33A	SMRD-33A-GW033111	gross_alpha	Total	3.8	NA	0.42	NA
RD-33A	SMRD-33A-GW033111	gross_beta	Filtered	4.02	1.8	0.7	1.1
RD-33A	SMRD-33A-GW033111	gross_beta	Suspended	0.28 U	0.83	0.25	0.5
RD-33A	SMRD-33A-GW033111	gross_beta	Total	4.3	NA	0.75	NA
RD-33A	SMRD-33A-GW033111	H-3	Total	-9 U	140	42	69
RD-33A	SMRD-33A-GW033111	Ho-166m	Filtered	0.59 U	2.2	0.64	1
RD-33A	SMRD-33A-GW033111	Ho-166m	Suspended	0.14 U	0.87	0.25	0.41
RD-33A	SMRD-33A-GW033111	Ho-166m	Total	0.72	NA	0.69	NA
RD-33A	SMRD-33A-GW033111	K-40	Filtered	21.2	20	6.6	9.4
RD-33A	SMRD-33A-GW033111	K-40	Suspended	0.07 U	12	3.5	5.9
RD-33A	SMRD-33A-GW033111	K-40	Total	21.2	NA	7.5	NA
RD-33A	SMRD-33A-GW033111	Na-22	Filtered	-0.15 U	1.7	0.49	0.79
RD-33A	SMRD-33A-GW033111	Na-22	Suspended	-0.07 U	0.79	0.23	0.37
RD-33A	SMRD-33A-GW033111	Na-22	Total	-0.22	NA	0.54	NA
RD-33A	SMRD-33A-GW033111	Nb-94	Filtered	0.06 U	1.4	0.41	0.67
RD-33A	SMRD-33A-GW033111	Nb-94	Suspended	0.03 U	0.7	0.2	0.33

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW033111	Nb-94	Total	0.1	NA	0.45	NA
RD-33A	SMRD-33A-GW033111	Np-236	Filtered	0.2 U	3.6	1.1	1.7
RD-33A	SMRD-33A-GW033111	Np-236	Suspended	0.18 U	1.2	0.37	0.6
RD-33A	SMRD-33A-GW033111	Np-236	Total	0.4	NA	1.1	NA
RD-33A	SMRD-33A-GW033111	Np-239	Filtered	0.5 U	9	2.6	4.3
RD-33A	SMRD-33A-GW033111	Np-239	Suspended	-0.6 U	3.9	1.2	1.9
RD-33A	SMRD-33A-GW033111	Np-239	Total	-0.2	NA	2.9	NA
RD-33A	SMRD-33A-GW033111	Pa-231	Filtered	21 U	67	20	32
RD-33A	SMRD-33A-GW033111	Pa-231	Suspended	0.05 U	20	5.9	9.7
RD-33A	SMRD-33A-GW033111	Pa-231	Total	21	NA	21	NA
RD-33A	SMRD-33A-GW033111	Pb-212	Filtered	1.19 U	2.8	0.91	1.3
RD-33A	SMRD-33A-GW033111	Pb-212	Suspended	0.23 U	0.98	0.29	0.47
RD-33A	SMRD-33A-GW033111	Pb-212	Total	1.42	NA	0.95	NA
RD-33A	SMRD-33A-GW033111	Pb-214	Filtered	2.8	3.5	1.4	1.7
RD-33A	SMRD-33A-GW033111	Pb-214	Suspended	0.44 U	1.5	0.42	0.72
RD-33A	SMRD-33A-GW033111	Pb-214	Total	3.3	NA	1.5	NA
RD-33A	SMRD-33A-GW033111	Sb-125	Filtered	-4.9 U	16	4.7	7.6
RD-33A	SMRD-33A-GW033111	Sb-125	Suspended	0.7 U	5.8	1.7	2.8
RD-33A	SMRD-33A-GW033111	Sb-125	Total	-4.2	NA	5	NA
RD-33A	SMRD-33A-GW033111	Sn-126	Filtered	0.002 U	1.3	0.37	0.61
RD-33A	SMRD-33A-GW033111	Sn-126	Suspended	0.65 B	0.7	0.22	0.33
RD-33A	SMRD-33A-GW033111	Sn-126	Total	0.65	NA	0.43	NA
RD-33A	SMRD-33A-GW033111	Sr-90	Filtered	-0.023 U	0.14	0.04	0.081
RD-33A	SMRD-33A-GW033111	Sr-90	Suspended	0.001 U	0.063	0.018	0.036
RD-33A	SMRD-33A-GW033111	Sr-90	Total	-0.022	NA	0.044	NA
RD-33A	SMRD-33A-GW033111	Te-125m	Filtered	-1.1 U	3.6	1.1	1.8
RD-33A	SMRD-33A-GW033111	Te-125m	Suspended	0.17 U	1.3	0.4	0.65
RD-33A	SMRD-33A-GW033111	Te-125m	Total	-1	NA	1.2	NA
RD-33A	SMRD-33A-GW033111	Th-231	Filtered	0.071	0.006	0.013	0.005
RD-33A	SMRD-33A-GW033111	Th-231	Suspended	-0.0021 U	0.017	0.0021	0.0055
RD-33A	SMRD-33A-GW033111	Th-231	Total	0.069	NA	0.013	NA
RD-33A	SMRD-33A-GW033111	Th-234	Filtered	14.2	28	9.8	14
RD-33A	SMRD-33A-GW033111	Th-234	Suspended	2.1 U	8.7	2.7	4.2
RD-33A	SMRD-33A-GW033111	Th-234	Total	16	NA	10	NA
RD-33A	SMRD-33A-GW033111	Tl-208	Filtered	1.65	1.7	0.65	0.83
RD-33A	SMRD-33A-GW033111	Tl-208	Suspended	0.52	0.78	0.29	0.37
RD-33A	SMRD-33A-GW033111	Tl-208	Total	2.18	NA	0.72	NA
RD-33A	SMRD-33A-GW033111	Tm-171	Filtered	140 U	430	130	210

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33A	SMRD-33A-GW033111	Tm-171	Suspended	44 U	110	35	56
RD-33A	SMRD-33A-GW033111	Tm-171	Total	180	NA	130	NA
RD-33A	SMRD-33A-GW033111	U-233/234	Filtered	1.92	0.01	0.1	0.004
RD-33A	SMRD-33A-GW033111	U-233/234	Suspended	0.0083	0.0057	0.0063	0.0044
RD-33A	SMRD-33A-GW033111	U-233/234	Total	1.93	NA	0.1	NA
RD-33A	SMRD-33A-GW033111	U-235/236	Filtered	0.071	0.006	0.013	0.005
RD-33A	SMRD-33A-GW033111	U-235/236	Suspended	-0.0021 U	0.017	0.0021	0.0055
RD-33A	SMRD-33A-GW033111	U-235/236	Total	0.069	NA	0.013	NA
RD-33A	SMRD-33A-GW033111	U-238	Filtered	1.17	0.005	0.068	0.004
RD-33A	SMRD-33A-GW033111	U-238	Suspended	0.0052 K	0.014	0.0058	0.0044
RD-33A	SMRD-33A-GW033111	U-238	Total	1.17	NA	0.068	NA
RD-33B	SMRD-33B-GW032211	Ac-227	Filtered	1.7 U	13	3.8	6.2
RD-33B	SMRD-33B-GW032211	Ac-227	Suspended	0.068 U	4.8	0.054	2.3
RD-33B	SMRD-33B-GW032211	Ac-227	Total	1.8	NA	3.8	NA
RD-33B	SMRD-33B-GW032211	Ac-228	Filtered	2.5 U	6.6	1	3.1
RD-33B	SMRD-33B-GW032211	Ac-228	Suspended	1.36	2.9	0.5	1.3
RD-33B	SMRD-33B-GW032211	Ac-228	Total	3.8	NA	1.1	NA
RD-33B	SMRD-33B-GW032211	Ag-108	Filtered	0.008 U R	0.099	0.02	0.047
RD-33B	SMRD-33B-GW032211	Ag-108	Suspended	-0.021 U R	0.058	0.017	0.028
RD-33B	SMRD-33B-GW032211	Ag-108	Total	-0.014 R	NA	0.027	NA
RD-33B	SMRD-33B-GW032211	Ag-108m	Filtered	0.08 U R	1.1	0.22	0.5
RD-33B	SMRD-33B-GW032211	Ag-108m	Suspended	-0.23 U R	0.62	0.19	0.3
RD-33B	SMRD-33B-GW032211	Ag-108m	Total	-0.14 R	NA	0.29	NA
RD-33B	SMRD-33B-GW032211	Am-241	Filtered	0.0159	0.017	0.0068	0.0053
RD-33B	SMRD-33B-GW032211	Am-241	Suspended	-0.0046 U	0.029	0.0073	0.013
RD-33B	SMRD-33B-GW032211	Am-241	Total	0.0112	NA	0.01	NA
RD-33B	SMRD-33B-GW032211	Ba-133	Filtered	-0.21 U R	1.4	0.41	0.67
RD-33B	SMRD-33B-GW032211	Ba-133	Suspended	-0.3 U R	0.65	0.2	0.31
RD-33B	SMRD-33B-GW032211	Ba-133	Total	-0.51 R	NA	0.46	NA
RD-33B	SMRD-33B-GW032211	Ba-137m	Filtered	0.11 U	0.99	0.29	0.46
RD-33B	SMRD-33B-GW032211	Ba-137m	Suspended	-0.05 U	0.55	0.16	0.26
RD-33B	SMRD-33B-GW032211	Ba-137m	Total	0.06	NA	0.33	NA
RD-33B	SMRD-33B-GW032211	Bi-212	Filtered	2 U	11	2.2	5.1
RD-33B	SMRD-33B-GW032211	Bi-212	Suspended	1.06 U	4.8	0.96	2.3
RD-33B	SMRD-33B-GW032211	Bi-212	Total	3.1	NA	2.4	NA
RD-33B	SMRD-33B-GW032211	Bi-214	Filtered	2.38	3	0.91	1.5
RD-33B	SMRD-33B-GW032211	Bi-214	Suspended	1.98	1.4	0.47	0.67
RD-33B	SMRD-33B-GW032211	Bi-214	Total	4.4	NA	1	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW032211	C-14	Total	0.79 U R	2.2	0.66	1.1
RD-33B	SMRD-33B-GW032211	Cd-113m	Filtered	-30 U	3900	1200	1900
RD-33B	SMRD-33B-GW032211	Cd-113m	Suspended	550 U	1300	400	630
RD-33B	SMRD-33B-GW032211	Cd-113m	Total	500	NA	1200	NA
RD-33B	SMRD-33B-GW032211	Cf-249	Filtered	-1.6 U R	6.3	1.9	3
RD-33B	SMRD-33B-GW032211	Cf-249	Suspended	-0.78 U R	2.4	0.72	1.2
RD-33B	SMRD-33B-GW032211	Cf-249	Total	-2.4 R	NA	2	NA
RD-33B	SMRD-33B-GW032211	Cm-243/244	Filtered	-0.0044 U	0.024	0.0045	0.009
RD-33B	SMRD-33B-GW032211	Cm-243/244	Suspended	0 U	0.0047	0.0017	0.0041
RD-33B	SMRD-33B-GW032211	Cm-243/244	Total	-0.0044	NA	0.0048	NA
RD-33B	SMRD-33B-GW032211	Cm-245/246	Filtered	0.0092 J	0.0062	0.0046	0.0054
RD-33B	SMRD-33B-GW032211	Cm-245/246	Suspended	0.009	0.014	0.0052	0.0044
RD-33B	SMRD-33B-GW032211	Cm-245/246	Total	0.0182 J	NA	0.0069	NA
RD-33B	SMRD-33B-GW032211	Co-60	Filtered	-0.13 U	1.4	0.4	0.65
RD-33B	SMRD-33B-GW032211	Co-60	Suspended	0.08 U	0.59	0.17	0.27
RD-33B	SMRD-33B-GW032211	Co-60	Total	-0.05	NA	0.43	NA
RD-33B	SMRD-33B-GW032211	Cs-134	Filtered	0.38 U	1.3	0.27	0.64
RD-33B	SMRD-33B-GW032211	Cs-134	Suspended	0.23 U	0.62	0.17	0.3
RD-33B	SMRD-33B-GW032211	Cs-134	Total	0.6	NA	0.31	NA
RD-33B	SMRD-33B-GW032211	Cs-137	Filtered	0.12 U	1	0.3	0.49
RD-33B	SMRD-33B-GW032211	Cs-137	Suspended	-0.06 U	0.58	0.17	0.28
RD-33B	SMRD-33B-GW032211	Cs-137	Total	0.06	NA	0.35	NA
RD-33B	SMRD-33B-GW032211	Eu-152	Filtered	-0.32 U	3.1	0.9	1.5
RD-33B	SMRD-33B-GW032211	Eu-152	Suspended	0.31 U	1.1	0.33	0.52
RD-33B	SMRD-33B-GW032211	Eu-152	Total	-0.01	NA	0.95	NA
RD-33B	SMRD-33B-GW032211	Eu-154	Filtered	0.46 U	6.6	0.65	3.1
RD-33B	SMRD-33B-GW032211	Eu-154	Suspended	0.013 U	3.2	0.068	1.5
RD-33B	SMRD-33B-GW032211	Eu-154	Total	0.47	NA	0.65	NA
RD-33B	SMRD-33B-GW032211	Eu-155	Filtered	-0.86 U	3.3	0.98	1.6
RD-33B	SMRD-33B-GW032211	Eu-155	Suspended	0.28 U	0.99	0.3	0.48
RD-33B	SMRD-33B-GW032211	Eu-155	Total	-0.6	NA	1	NA
RD-33B	SMRD-33B-GW032211	gross_alpha	Filtered	2.19	0.54	0.31	0.3
RD-33B	SMRD-33B-GW032211	gross_alpha	Suspended	0.23 U	0.47	0.14	0.25
RD-33B	SMRD-33B-GW032211	gross_alpha	Total	2.42	NA	0.34	NA
RD-33B	SMRD-33B-GW032211	gross_beta	Filtered	6.27	2.5	0.997	1.5
RD-33B	SMRD-33B-GW032211	gross_beta	Suspended	1.22	0.77	0.28	0.46
RD-33B	SMRD-33B-GW032211	gross_beta	Total	7.5	NA	1	NA
RD-33B	SMRD-33B-GW032211	H-3	Total	32 U	140	41	67

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW032211	Ho-166m	Filtered	0.35 U	1.3	0.3	0.6
RD-33B	SMRD-33B-GW032211	Ho-166m	Suspended	0.16 U	0.81	0.14	0.38
RD-33B	SMRD-33B-GW032211	Ho-166m	Total	0.51	NA	0.33	NA
RD-33B	SMRD-33B-GW032211	I-129	Filtered	0.14 U	0.58	0.17	0.29
RD-33B	SMRD-33B-GW032211	I-129	Suspended	-0.13 U	0.49	0.15	0.24
RD-33B	SMRD-33B-GW032211	I-129	Total	0.002	NA	0.23	NA
RD-33B	SMRD-33B-GW032211	K-40	Filtered	-5.3 U	17	8	8.1
RD-33B	SMRD-33B-GW032211	K-40	Suspended	1 U	8	2.5	3.8
RD-33B	SMRD-33B-GW032211	K-40	Total	-4.3	NA	8.4	NA
RD-33B	SMRD-33B-GW032211	Na-22	Filtered	0.09 U	1.4	0.39	0.64
RD-33B	SMRD-33B-GW032211	Na-22	Suspended	0.02 U	0.63	0.18	0.29
RD-33B	SMRD-33B-GW032211	Na-22	Total	0.11	NA	0.43	NA
RD-33B	SMRD-33B-GW032211	Nb-94	Filtered	0 U	1.1	0.23	0.51
RD-33B	SMRD-33B-GW032211	Nb-94	Suspended	-0.11 U	0.5	0.15	0.24
RD-33B	SMRD-33B-GW032211	Nb-94	Total	-0.11	NA	0.28	NA
RD-33B	SMRD-33B-GW032211	Np-236	Filtered	0.12 U	2.8	0.83	1.4
RD-33B	SMRD-33B-GW032211	Np-236	Suspended	0.02 U	0.97	0.29	0.47
RD-33B	SMRD-33B-GW032211	Np-236	Total	0.14	NA	0.88	NA
RD-33B	SMRD-33B-GW032211	Np-237	Filtered	-0.0022 U	0.024	0.0022	0.0059
RD-33B	SMRD-33B-GW032211	Np-237	Suspended	0 U	0.011	0.003	0.0056
RD-33B	SMRD-33B-GW032211	Np-237	Total	-0.0022	NA	0.0037	NA
RD-33B	SMRD-33B-GW032211	Np-239	Filtered	0.2 U	7.7	2.3	3.7
RD-33B	SMRD-33B-GW032211	Np-239	Suspended	0.05 U	2.9	0.86	1.4
RD-33B	SMRD-33B-GW032211	Np-239	Total	0.3	NA	2.4	NA
RD-33B	SMRD-33B-GW032211	Pa-231	Filtered	-7 U	56	17	27
RD-33B	SMRD-33B-GW032211	Pa-231	Suspended	0.8 U	19	3.2	9.3
RD-33B	SMRD-33B-GW032211	Pa-231	Total	-7	NA	17	NA
RD-33B	SMRD-33B-GW032211	Pb-212	Filtered	1.41	2.7	0.98	1.3
RD-33B	SMRD-33B-GW032211	Pb-212	Suspended	-0.04 U	0.78	0.24	0.38
RD-33B	SMRD-33B-GW032211	Pb-212	Total	1.4	NA	1	NA
RD-33B	SMRD-33B-GW032211	Pb-214	Filtered	0.91 U	2.4	0.81	1.2
RD-33B	SMRD-33B-GW032211	Pb-214	Suspended	1.22	1.1	0.43	0.51
RD-33B	SMRD-33B-GW032211	Pb-214	Total	2.13	NA	0.91	NA
RD-33B	SMRD-33B-GW032211	Pu-238	Filtered	0.0106	0.02	0.0064	0.007
RD-33B	SMRD-33B-GW032211	Pu-238	Suspended	0.0262	0.017	0.0076	0.0062
RD-33B	SMRD-33B-GW032211	Pu-238	Total	0.0368	NA	0.0099	NA
RD-33B	SMRD-33B-GW032211	Pu-239/240	Filtered	0 U	0.016	0.003	0.005
RD-33B	SMRD-33B-GW032211	Pu-239/240	Suspended	0.0031 U	0.0042	0.0022	0.004

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW032211	Pu-239/240	Total	0.0031	NA	0.0037	NA
RD-33B	SMRD-33B-GW032211	Pu-242	Filtered	0.0021 U	0.0058	0.0021	0.005
RD-33B	SMRD-33B-GW032211	Pu-242	Suspended	0.0015 U	0.014	0.0036	0.0051
RD-33B	SMRD-33B-GW032211	Pu-242	Total	0.0037	NA	0.0042	NA
RD-33B	SMRD-33B-GW032211	Ra-226	Filtered	0.832	0.1	0.096	0.052
RD-33B	SMRD-33B-GW032211	Ra-226	Suspended	0.133	0.2	0.065	0.11
RD-33B	SMRD-33B-GW032211	Ra-226	Total	0.97	NA	0.12	NA
RD-33B	SMRD-33B-GW032211	Sb-125	Filtered	0.67 U	3.3	0.98	1.6
RD-33B	SMRD-33B-GW032211	Sb-125	Suspended	0.36 U	1.4	0.41	0.65
RD-33B	SMRD-33B-GW032211	Sb-125	Total	1	NA	1.1	NA
RD-33B	SMRD-33B-GW032211	Sn-126	Filtered	0.42 U	1.2	0.37	0.59
RD-33B	SMRD-33B-GW032211	Sn-126	Suspended	0.19 U	0.58	0.17	0.28
RD-33B	SMRD-33B-GW032211	Sn-126	Total	0.62	NA	0.41	NA
RD-33B	SMRD-33B-GW032211	Sr-90	Filtered	0.017 U	0.1	0.03	0.057
RD-33B	SMRD-33B-GW032211	Sr-90	Suspended	0.035 U	0.067	0.02	0.038
RD-33B	SMRD-33B-GW032211	Sr-90	Total	0.052	NA	0.036	NA
RD-33B	SMRD-33B-GW032211	Tc-99	Filtered	-0.22 U	1.4	0.44	0.72
RD-33B	SMRD-33B-GW032211	Tc-99	Suspended	0.2 U	1.7	0.49	0.81
RD-33B	SMRD-33B-GW032211	Tc-99	Total	-0.02	NA	0.66	NA
RD-33B	SMRD-33B-GW032211	Te-125m	Filtered	0.15 U	0.76	0.23	0.36
RD-33B	SMRD-33B-GW032211	Te-125m	Suspended	0.082 U	0.31	0.095	0.15
RD-33B	SMRD-33B-GW032211	Te-125m	Total	0.24	NA	0.24	NA
RD-33B	SMRD-33B-GW032211	Th-231	Filtered	0.0073	0.0066	0.0042	0.0051
RD-33B	SMRD-33B-GW032211	Th-231	Suspended	0 U	0.006	0.0018	0.0046
RD-33B	SMRD-33B-GW032211	Th-231	Total	0.0073	NA	0.0046	NA
RD-33B	SMRD-33B-GW032211	Th-234	Filtered	5.9 U	15	5	7.2
RD-33B	SMRD-33B-GW032211	Th-234	Suspended	0.5 U	3.4	0.9	1.7
RD-33B	SMRD-33B-GW032211	Th-234	Total	6.4	NA	5.1	NA
RD-33B	SMRD-33B-GW032211	Tl-208	Filtered	0.76	1.6	0.63	0.76
RD-33B	SMRD-33B-GW032211	Tl-208	Suspended	0.28	0.56	0.24	0.27
RD-33B	SMRD-33B-GW032211	Tl-208	Total	1.03	NA	0.67	NA
RD-33B	SMRD-33B-GW032211	Tm-171	Filtered	410	320	130	160
RD-33B	SMRD-33B-GW032211	Tm-171	Suspended	-50 U	90	910	50
RD-33B	SMRD-33B-GW032211	Tm-171	Total	360	NA	920	NA
RD-33B	SMRD-33B-GW032211	U-233/234	Filtered	0.042	0.013	0.01	0.004
RD-33B	SMRD-33B-GW032211	U-233/234	Suspended	0.0128	0.017	0.0074	0.0065
RD-33B	SMRD-33B-GW032211	U-233/234	Total	0.054	NA	0.013	NA
RD-33B	SMRD-33B-GW032211	U-235/236	Filtered	0.0073	0.0066	0.0042	0.0051

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33B	SMRD-33B-GW032211	U-235/236	Suspended	0 U	0.006	0.0018	0.0046
RD-33B	SMRD-33B-GW032211	U-235/236	Total	0.0073	NA	0.0046	NA
RD-33B	SMRD-33B-GW032211	U-238	Filtered	0.0111	0.016	0.0069	0.0058
RD-33B	SMRD-33B-GW032211	U-238	Suspended	0.0035 U	0.0048	0.0044	0.0037
RD-33B	SMRD-33B-GW032211	U-238	Total	0.0146	NA	0.0082	NA
RD-33C	SMRD-33C-GW032211	Ac-227	Filtered	0.5 U	14	4.1	6.8
RD-33C	SMRD-33C-GW032211	Ac-227	Suspended	-1.7 U	4.4	1.3	2.1
RD-33C	SMRD-33C-GW032211	Ac-227	Total	-1.2	NA	4.3	NA
RD-33C	SMRD-33C-GW032211	Ac-228	Filtered	8	3.6	1.9	1.6
RD-33C	SMRD-33C-GW032211	Ac-228	Suspended	1.55	2.4	0.73	1.1
RD-33C	SMRD-33C-GW032211	Ac-228	Total	9.5	NA	2	NA
RD-33C	SMRD-33C-GW032211	Ag-108	Filtered	0.028 U R	0.11	0.034	0.054
RD-33C	SMRD-33C-GW032211	Ag-108	Suspended	-0.006 U R	0.052	0.015	0.025
RD-33C	SMRD-33C-GW032211	Ag-108	Total	0.022 R	NA	0.037	NA
RD-33C	SMRD-33C-GW032211	Ag-108m	Filtered	0.3 U R	1.2	0.36	0.58
RD-33C	SMRD-33C-GW032211	Ag-108m	Suspended	-0.06 U R	0.56	0.17	0.27
RD-33C	SMRD-33C-GW032211	Ag-108m	Total	0.24 R	NA	0.4	NA
RD-33C	SMRD-33C-GW032211	Ba-133	Filtered	-0.2 U R	15	4.4	7.3
RD-33C	SMRD-33C-GW032211	Ba-133	Suspended	1.4 U R	5.4	1.6	2.6
RD-33C	SMRD-33C-GW032211	Ba-133	Total	1.2 R	NA	4.7	NA
RD-33C	SMRD-33C-GW032211	Ba-137m	Filtered	-0.43 U	1.5	0.45	0.72
RD-33C	SMRD-33C-GW032211	Ba-137m	Suspended	-0.02 U	0.59	0.17	0.28
RD-33C	SMRD-33C-GW032211	Ba-137m	Total	-0.45	NA	0.48	NA
RD-33C	SMRD-33C-GW032211	Bi-212	Filtered	3.6 U	11	3.2	5.1
RD-33C	SMRD-33C-GW032211	Bi-212	Suspended	-1 U	6.1	4.6	2.9
RD-33C	SMRD-33C-GW032211	Bi-212	Total	2.5	NA	5.6	NA
RD-33C	SMRD-33C-GW032211	Bi-214	Filtered	2.8	3.7	1.6	1.8
RD-33C	SMRD-33C-GW032211	Bi-214	Suspended	-0.17 U	1.6	0.58	0.76
RD-33C	SMRD-33C-GW032211	Bi-214	Total	2.6	NA	1.7	NA
RD-33C	SMRD-33C-GW032211	Cd-113m	Filtered	2200 U	18000	5500	8900
RD-33C	SMRD-33C-GW032211	Cd-113m	Suspended	-20 U	7400	2200	3600
RD-33C	SMRD-33C-GW032211	Cd-113m	Total	2200	NA	5900	NA
RD-33C	SMRD-33C-GW032211	Cf-249	Filtered	-2.6 U R	7.5	2.2	3.6
RD-33C	SMRD-33C-GW032211	Cf-249	Suspended	0.57 U R	2.8	0.84	1.4
RD-33C	SMRD-33C-GW032211	Cf-249	Total	-2.1 R	NA	2.4	NA
RD-33C	SMRD-33C-GW032211	Co-60	Filtered	0.07 U	1.6	0.44	0.71
RD-33C	SMRD-33C-GW032211	Co-60	Suspended	-0.1 U	0.68	0.19	0.31
RD-33C	SMRD-33C-GW032211	Co-60	Total	-0.03	NA	0.48	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-33C-GW032211	Cs-134	Filtered	-0.55 U	1.7	0.52	0.83
RD-33C	SMRD-33C-GW032211	Cs-134	Suspended	-0.09 U	0.77	0.23	0.37
RD-33C	SMRD-33C-GW032211	Cs-134	Total	-0.64	NA	0.56	NA
RD-33C	SMRD-33C-GW032211	Cs-137	Filtered	-0.45 U	1.6	0.48	0.76
RD-33C	SMRD-33C-GW032211	Cs-137	Suspended	-0.02 U	0.62	0.18	0.29
RD-33C	SMRD-33C-GW032211	Cs-137	Total	-0.47	NA	0.51	NA
RD-33C	SMRD-33C-GW032211	Eu-152	Filtered	0.4 U	3.2	0.92	1.5
RD-33C	SMRD-33C-GW032211	Eu-152	Suspended	-0.08 U	1.7	0.51	0.83
RD-33C	SMRD-33C-GW032211	Eu-152	Total	0.3	NA	1.1	NA
RD-33C	SMRD-33C-GW032211	Eu-154	Filtered	-0.06 U	13	3.6	5.9
RD-33C	SMRD-33C-GW032211	Eu-154	Suspended	-2 U	6.5	1.9	3.1
RD-33C	SMRD-33C-GW032211	Eu-154	Total	-2	NA	4.1	NA
RD-33C	SMRD-33C-GW032211	Eu-155	Filtered	0.5 U	4	1.2	2
RD-33C	SMRD-33C-GW032211	Eu-155	Suspended	0.29 U	1.1	0.34	0.55
RD-33C	SMRD-33C-GW032211	Eu-155	Total	0.8	NA	1.2	NA
RD-33C	SMRD-33C-GW032211	gross_alpha	Filtered	2.02	0.38	0.29	0.18
RD-33C	SMRD-33C-GW032211	gross_alpha	Suspended	0.35	0.38	0.14	0.19
RD-33C	SMRD-33C-GW032211	gross_alpha	Total	2.37	NA	0.32	NA
RD-33C	SMRD-33C-GW032211	gross_beta	Filtered	4.23	2.2	0.83	1.3
RD-33C	SMRD-33C-GW032211	gross_beta	Suspended	0.7	0.99	0.31	0.6
RD-33C	SMRD-33C-GW032211	gross_beta	Total	4.93	NA	0.89	NA
RD-33C	SMRD-33C-GW032211	H-3	Total	47 U	150	45	72
RD-33C	SMRD-33C-GW032211	Ho-166m	Filtered	-0.08 U	2.3	0.65	1.1
RD-33C	SMRD-33C-GW032211	Ho-166m	Suspended	0.16 U	1.1	0.32	0.51
RD-33C	SMRD-33C-GW032211	Ho-166m	Total	0.09	NA	0.72	NA
RD-33C	SMRD-33C-GW032211	K-40	Filtered	-3.4 U	24	7.4	11
RD-33C	SMRD-33C-GW032211	K-40	Suspended	5.8	10	3.6	4.8
RD-33C	SMRD-33C-GW032211	K-40	Total	2.4	NA	8.3	NA
RD-33C	SMRD-33C-GW032211	Na-22	Filtered	-0.16 U	1.5	0.43	0.7
RD-33C	SMRD-33C-GW032211	Na-22	Suspended	0.07 U	0.74	0.21	0.34
RD-33C	SMRD-33C-GW032211	Na-22	Total	-0.09	NA	0.48	NA
RD-33C	SMRD-33C-GW032211	Nb-94	Filtered	-0.04 U	1.3	0.36	0.6
RD-33C	SMRD-33C-GW032211	Nb-94	Suspended	0.007 U	0.61	0.17	0.29
RD-33C	SMRD-33C-GW032211	Nb-94	Total	-0.04	NA	0.4	NA
RD-33C	SMRD-33C-GW032211	Np-236	Filtered	0.1 U	9.3	2.7	4.5
RD-33C	SMRD-33C-GW032211	Np-236	Suspended	0.001 U	0.88	0.26	0.42
RD-33C	SMRD-33C-GW032211	Np-236	Total	0.1	NA	2.7	NA
RD-33C	SMRD-33C-GW032211	Np-239	Filtered	-0.03 U	9.3	2.7	4.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-33C-GW032211	Np-239	Suspended	0.4 U	3.5	1	1.7
RD-33C	SMRD-33C-GW032211	Np-239	Total	0.4	NA	2.9	NA
RD-33C	SMRD-33C-GW032211	Pa-231	Filtered	18 U	68	20	33
RD-33C	SMRD-33C-GW032211	Pa-231	Suspended	2.2 U	22	6.4	10
RD-33C	SMRD-33C-GW032211	Pa-231	Total	20	NA	21	NA
RD-33C	SMRD-33C-GW032211	Pb-212	Filtered	0.03 U	2.9	0.91	1.4
RD-33C	SMRD-33C-GW032211	Pb-212	Suspended	-0.06 U	1.1	0.37	0.53
RD-33C	SMRD-33C-GW032211	Pb-212	Total	-0.03	NA	0.98	NA
RD-33C	SMRD-33C-GW032211	Pb-214	Filtered	-0.4 U	3.7	1.2	1.8
RD-33C	SMRD-33C-GW032211	Pb-214	Suspended	-0.32 U	1.5	0.6	0.71
RD-33C	SMRD-33C-GW032211	Pb-214	Total	-0.8	NA	1.4	NA
RD-33C	SMRD-33C-GW032211	Sb-125	Filtered	-0.8 U	16	4.7	7.7
RD-33C	SMRD-33C-GW032211	Sb-125	Suspended	1.4 U	5.4	1.6	2.6
RD-33C	SMRD-33C-GW032211	Sb-125	Total	0.7	NA	5	NA
RD-33C	SMRD-33C-GW032211	Sn-126	Filtered	0.62 U	1.6	0.47	0.74
RD-33C	SMRD-33C-GW032211	Sn-126	Suspended	0.05 U	0.82	0.24	0.39
RD-33C	SMRD-33C-GW032211	Sn-126	Total	0.67	NA	0.53	NA
RD-33C	SMRD-33C-GW032211	Sr-90	Filtered	0.01 U	0.061	0.018	0.035
RD-33C	SMRD-33C-GW032211	Sr-90	Suspended	0.015 U	0.12	0.036	0.074
RD-33C	SMRD-33C-GW032211	Sr-90	Total	0.015	NA	0.036	NA
RD-33C	SMRD-33C-GW032211	Te-125m	Filtered	-0.2 U	3.7	1.1	1.8
RD-33C	SMRD-33C-GW032211	Te-125m	Suspended	0.33 U	1.2	0.37	0.6
RD-33C	SMRD-33C-GW032211	Te-125m	Total	0.2	NA	1.1	NA
RD-33C	SMRD-33C-GW032211	Th-231	Filtered	0.0024 U	0.0065	0.0024	0.005
RD-33C	SMRD-33C-GW032211	Th-231	Suspended	0 U	0.013	0.0039	0.01
RD-33C	SMRD-33C-GW032211	Th-231	Total	0.0024	NA	0.0046	NA
RD-33C	SMRD-33C-GW032211	Th-234	Filtered	3.5 U	27	8.8	13
RD-33C	SMRD-33C-GW032211	Th-234	Suspended	3.2 U	7.3	2.5	3.6
RD-33C	SMRD-33C-GW032211	Th-234	Total	6.7	NA	9.1	NA
RD-33C	SMRD-33C-GW032211	Tl-208	Filtered	2.01	1.6	0.61	0.76
RD-33C	SMRD-33C-GW032211	Tl-208	Suspended	-0.08 U	0.83	0.26	0.4
RD-33C	SMRD-33C-GW032211	Tl-208	Total	1.93	NA	0.66	NA
RD-33C	SMRD-33C-GW032211	Tm-171	Filtered	-20 U	460	140	220
RD-33C	SMRD-33C-GW032211	Tm-171	Suspended	-18 U	110	34	56
RD-33C	SMRD-33C-GW032211	Tm-171	Total	-30	NA	140	NA
RD-33C	SMRD-33C-GW032211	U-233/234	Filtered	0.209	0.005	0.022	0.004
RD-33C	SMRD-33C-GW032211	U-233/234	Suspended	-0.0211 L U	0.038	0.0079	0.014
RD-33C	SMRD-33C-GW032211	U-233/234	Total	0.188	NA	0.024	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-33C	SMRD-33C-GW032211	U-235/236	Filtered	0.0024 U	0.0065	0.0024	0.005
RD-33C	SMRD-33C-GW032211	U-235/236	Suspended	0 U	0.013	0.0039	0.01
RD-33C	SMRD-33C-GW032211	U-235/236	Total	0.0024	NA	0.0046	NA
RD-33C	SMRD-33C-GW032211	U-238	Filtered	0.116	0.005	0.016	0.004
RD-33C	SMRD-33C-GW032211	U-238	Suspended	0.0052 U	0.011	0.0088	0.0082
RD-33C	SMRD-33C-GW032211	U-238	Total	0.122	NA	0.018	NA
RD-34A	SMRD34AGW032311	Ac-227	Filtered	-6.7 UL	9.9	3	4.9
RD-34A	SMRD34AGW032311	Ac-227	Suspended	-3.1 UL	5	1.5	2.4
RD-34A	SMRD34AGW032311	Ac-227	Total	-9.8	NA	3.4	NA
RD-34A	SMRD34AGW032311	Ac-228	Filtered	2.7	3.6	1.1	1.7
RD-34A	SMRD34AGW032311	Ac-228	Suspended	1.55	2.2	0.7	1
RD-34A	SMRD34AGW032311	Ac-228	Total	4.3	NA	1.3	NA
RD-34A	SMRD34AGW032311	Ag-108	Filtered	0.0005 U	0.092	0.027	0.044
RD-34A	SMRD34AGW032311	Ag-108	Suspended	0 U	0.052	0.015	0.025
RD-34A	SMRD34AGW032311	Ag-108	Total	0.0005	NA	0.031	NA
RD-34A	SMRD34AGW032311	Ag-108m	Filtered	0.005 U	0.99	0.29	0.47
RD-34A	SMRD34AGW032311	Ag-108m	Suspended	0.0004 U	0.56	0.16	0.27
RD-34A	SMRD34AGW032311	Ag-108m	Total	0.006	NA	0.33	NA
RD-34A	SMRD34AGW032311	Ba-133	Filtered	-0.2 U	11	3.3	5.5
RD-34A	SMRD34AGW032311	Ba-133	Suspended	-0.03 U	6.4	1.9	3.1
RD-34A	SMRD34AGW032311	Ba-133	Total	-0.2	NA	3.8	NA
RD-34A	SMRD34AGW032311	Ba-137m	Filtered	0.08 U	1.1	0.32	0.52
RD-34A	SMRD34AGW032311	Ba-137m	Suspended	0.1 U	0.68	0.2	0.32
RD-34A	SMRD34AGW032311	Ba-137m	Total	0.18	NA	0.37	NA
RD-34A	SMRD34AGW032311	Bi-212	Filtered	-4 U	10	140	5
RD-34A	SMRD34AGW032311	Bi-212	Suspended	1.4 U	5.4	1.6	2.5
RD-34A	SMRD34AGW032311	Bi-212	Total	-3	NA	140	NA
RD-34A	SMRD34AGW032311	Bi-214	Filtered	0.6 U	2.8	1	1.4
RD-34A	SMRD34AGW032311	Bi-214	Suspended	0.56 U	1.9	0.73	0.91
RD-34A	SMRD34AGW032311	Bi-214	Total	1.2	NA	1.2	NA
RD-34A	SMRD34AGW032311	Cd-113m	Filtered	2200 U	13000	3800	6200
RD-34A	SMRD34AGW032311	Cd-113m	Suspended	700 U	7700	2300	3700
RD-34A	SMRD34AGW032311	Cd-113m	Total	2900	NA	4400	NA
RD-34A	SMRD34AGW032311	Cf-249	Filtered	0.7 U	5.3	1.6	2.5
RD-34A	SMRD34AGW032311	Cf-249	Suspended	0.75 U	3.2	0.94	1.5
RD-34A	SMRD34AGW032311	Cf-249	Total	1.4	NA	1.8	NA
RD-34A	SMRD34AGW032311	Co-60	Filtered	-0.23 U	1.3	0.37	0.59
RD-34A	SMRD34AGW032311	Co-60	Suspended	0 U	1	0.28	0.46

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD34AGW032311	Co-60	Total	-0.23	NA	0.46	NA
RD-34A	SMRD34AGW032311	Cs-134	Filtered	-0.35 U	1.2	0.36	0.58
RD-34A	SMRD34AGW032311	Cs-134	Suspended	-0.14 U	0.78	0.23	0.37
RD-34A	SMRD34AGW032311	Cs-134	Total	-0.49	NA	0.43	NA
RD-34A	SMRD34AGW032311	Cs-137	Filtered	0.09 U	1.2	0.34	0.55
RD-34A	SMRD34AGW032311	Cs-137	Suspended	0.1 U	0.72	0.21	0.34
RD-34A	SMRD34AGW032311	Cs-137	Total	0.19	NA	0.4	NA
RD-34A	SMRD34AGW032311	Eu-152	Filtered	-0.9 U	2.5	0.74	1.2
RD-34A	SMRD34AGW032311	Eu-152	Suspended	0.03 U	1.7	0.48	0.79
RD-34A	SMRD34AGW032311	Eu-152	Total	-0.88	NA	0.88	NA
RD-34A	SMRD34AGW032311	Eu-154	Filtered	-0.3 U	9.4	2.7	4.4
RD-34A	SMRD34AGW032311	Eu-154	Suspended	0.002 U	5.3	1.5	2.4
RD-34A	SMRD34AGW032311	Eu-154	Total	-0.3	NA	3.1	NA
RD-34A	SMRD34AGW032311	Eu-155	Filtered	-0.36 U	3.1	0.92	1.5
RD-34A	SMRD34AGW032311	Eu-155	Suspended	0.31 U	1.5	0.44	0.71
RD-34A	SMRD34AGW032311	Eu-155	Total	-0.05	NA	1	NA
RD-34A	SMRD34AGW032311	gross_alpha	Filtered	20.2 J	0.4	1.4	0.2
RD-34A	SMRD34AGW032311	gross_alpha	Suspended	0.64	0.46	0.19	0.23
RD-34A	SMRD34AGW032311	gross_alpha	Total	20.9	NA	1.4	NA
RD-34A	SMRD34AGW032311	gross_beta	Filtered	1.34	0.87	0.31	0.52
RD-34A	SMRD34AGW032311	gross_beta	Suspended	14.6	1.4	1.1	0.7
RD-34A	SMRD34AGW032311	gross_beta	Total	16.8	NA	1.2	NA
RD-34A	SMRD34AGW032311	H-3_Total	Total	342	89	36	43
RD-34A	SMRD34AGW032311	Ho-166m	Filtered	-0.29 U	2	0.58	0.94
RD-34A	SMRD34AGW032311	Ho-166m	Suspended	0.21 U	1.1	0.32	0.51
RD-34A	SMRD34AGW032311	Ho-166m	Total	-0.09	NA	0.66	NA
RD-34A	SMRD34AGW032311	K-40	Filtered	12.9	16	5	7.3
RD-34A	SMRD34AGW032311	K-40	Suspended	2 U	10	2.5	4.7
RD-34A	SMRD34AGW032311	K-40	Total	14.8	NA	5.5	NA
RD-34A	SMRD34AGW032311	Na-22	Filtered	-0.13 U	1.2	0.35	0.57
RD-34A	SMRD34AGW032311	Na-22	Suspended	-0.15 U	0.91	0.26	0.42
RD-34A	SMRD34AGW032311	Na-22	Total	-0.28	NA	0.44	NA
RD-34A	SMRD34AGW032311	Nb-94	Filtered	-0.33 U	1.2	0.36	0.58
RD-34A	SMRD34AGW032311	Nb-94	Suspended	-0.18 U	0.76	0.22	0.36
RD-34A	SMRD34AGW032311	Nb-94	Total	-0.51	NA	0.43	NA
RD-34A	SMRD34AGW032311	Np-236	Filtered	-0.36 U	2.1	0.63	1
RD-34A	SMRD34AGW032311	Np-236	Suspended	-0.006 U	1.2	0.37	0.6
RD-34A	SMRD34AGW032311	Np-236	Total	-0.36	NA	0.73	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD34AGW032311	Np-239	Filtered	1.6 U	7	2.1	3.4
RD-34A	SMRD34AGW032311	Np-239	Suspended	-0.1 U	3.8	1.1	1.8
RD-34A	SMRD34AGW032311	Np-239	Total	1.5	NA	2.4	NA
RD-34A	SMRD34AGW032311	Pa-231	Filtered	-18 U	55	17	27
RD-34A	SMRD34AGW032311	Pa-231	Suspended	1.5 U	29	8.5	14
RD-34A	SMRD34AGW032311	Pa-231	Total	-16	NA	19	NA
RD-34A	SMRD34AGW032311	Pb-212	Filtered	0.06 U	2.6	0.92	1.3
RD-34A	SMRD34AGW032311	Pb-212	Suspended	0.77	1.2	0.43	0.6
RD-34A	SMRD34AGW032311	Pb-212	Total	0.8	NA	1	NA
RD-34A	SMRD34AGW032311	Pb-214	Filtered	0.37 U	2.3	0.77	1.1
RD-34A	SMRD34AGW032311	Pb-214	Suspended	0.29 U	1.6	0.44	0.78
RD-34A	SMRD34AGW032311	Pb-214	Total	0.66	NA	0.88	NA
RD-34A	SMRD34AGW032311	Sb-125	Filtered	-1.7 U	13	3.7	6.1
RD-34A	SMRD34AGW032311	Sb-125	Suspended	-0.4 U	5.7	1.7	2.8
RD-34A	SMRD34AGW032311	Sb-125	Total	-2.1	NA	4.1	NA
RD-34A	SMRD34AGW032311	Sn-126	Filtered	-0.24 U	1.4	0.41	0.67
RD-34A	SMRD34AGW032311	Sn-126	Suspended	-0.06 U	0.82	0.24	0.39
RD-34A	SMRD34AGW032311	Sn-126	Total	-0.3	NA	0.48	NA
RD-34A	SMRD34AGW032311	Sr-90	Filtered	0.163	0.11	0.036	0.054
RD-34A	SMRD34AGW032311	Sr-90	Suspended	0 U	0.08	0.02	0.05
RD-34A	SMRD34AGW032311	Sr-90	Total	0.16	NA	0.04	NA
RD-34A	SMRD34AGW032311	Te-125m	Filtered	-0.39 U	2.9	0.87	1.4
RD-34A	SMRD34AGW032311	Te-125m	Suspended	-0.09 U	1.3	0.39	0.64
RD-34A	SMRD34AGW032311	Te-125m	Total	-0.48	NA	0.95	NA
RD-34A	SMRD34AGW032311	Th-231	Filtered	0.521	0.009	0.048	0.008
RD-34A	SMRD34AGW032311	Th-231	Suspended	0.0024 U	0.0064	0.0024	0.0055
RD-34A	SMRD34AGW032311	Th-231	Total	0.524	NA	0.048	NA
RD-34A	SMRD34AGW032311	Th-234	Filtered	7.9 U	22	7.1	11
RD-34A	SMRD34AGW032311	Th-234	Suspended	4.1 U	9	3.2	4.4
RD-34A	SMRD34AGW032311	Th-234	Total	12	NA	7.8	NA
RD-34A	SMRD34AGW032311	Tl-208	Filtered	0.38 U	1.4	0.5	0.66
RD-34A	SMRD34AGW032311	Tl-208	Suspended	0.68	0.79	0.29	0.38
RD-34A	SMRD34AGW032311	Tl-208	Total	1.06	NA	0.58	NA
RD-34A	SMRD34AGW032311	Tm-171	Filtered	90 U	360	110	170
RD-34A	SMRD34AGW032311	Tm-171	Suspended	-21 U	140	41	66
RD-34A	SMRD34AGW032311	Tm-171	Total	70	NA	110	NA
RD-34A	SMRD34AGW032311	U-233/234	Filtered	10.4	0.02	0.47	0.01
RD-34A	SMRD34AGW032311	U-233/234	Filtered	10.4	0.02	0.47	0.01

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34A	SMRD34AGW032311	U-233/234	Suspended	0.09	0.04	0.03	0.01
RD-34A	SMRD34AGW032311	U-233/234	Total	10.5	NA	0.47	NA
RD-34A	SMRD34AGW032311	U-235/236	Filtered	0.52	0.01	0.05	0.01
RD-34A	SMRD34AGW032311	U-235/236	Filtered	0.52	0.01	0.05	0.01
RD-34A	SMRD34AGW032311	U-235/236	Suspended	0 U	0.05	0	0.01
RD-34A	SMRD34AGW032311	U-235/236	Total	0.52	NA	0.05	NA
RD-34A	SMRD34AGW032311	U-238	Filtered	11	0.01	0.49	0.01
RD-34A	SMRD34AGW032311	U-238	Filtered	11	0.01	0.49	0.01
RD-34A	SMRD34AGW032311	U-238	Suspended	0.09	0.04	0.03	0.01
RD-34A	SMRD34AGW032311	U-238	Total	11.1	NA	0.5	NA
RD-34B	SMRD-34B-GW031811	Ac-227	Filtered	-2.1 U	8.9	2.6	4.3
RD-34B	SMRD-34B-GW031811	Ac-227	Suspended	-0.9 U	3.7	1.1	1.8
RD-34B	SMRD-34B-GW031811	Ac-227	Total	-3	NA	2.9	NA
RD-34B	SMRD-34B-GW031811	Ac-228	Filtered	0 U	5.9	1.7	2.8
RD-34B	SMRD-34B-GW031811	Ac-228	Suspended	-0.7 U	2.6	1.2	1.3
RD-34B	SMRD-34B-GW031811	Ac-228	Total	-0.7	NA	2	NA
RD-34B	SMRD-34B-GW031811	Ag-108	Filtered	0.027 U	0.12	0.035	0.056
RD-34B	SMRD-34B-GW031811	Ag-108	Suspended	-0.001 U	0.047	0.014	0.023
RD-34B	SMRD-34B-GW031811	Ag-108	Total	0.025	NA	0.037	NA
RD-34B	SMRD-34B-GW031811	Ag-108m	Filtered	0.29 U	1.3	0.37	0.6
RD-34B	SMRD-34B-GW031811	Ag-108m	Suspended	-0.01 U	0.51	0.15	0.24
RD-34B	SMRD-34B-GW031811	Ag-108m	Total	0.27	NA	0.4	NA
RD-34B	SMRD-34B-GW031811	Ba-133	Filtered	0.09 U	13	3.8	6.3
RD-34B	SMRD-34B-GW031811	Ba-133	Suspended	0.6 U	6	1.8	2.9
RD-34B	SMRD-34B-GW031811	Ba-133	Total	0.7	NA	4.2	NA
RD-34B	SMRD-34B-GW031811	Ba-137m	Filtered	-0.07 U	1.3	0.39	0.63
RD-34B	SMRD-34B-GW031811	Ba-137m	Suspended	0 U	0.81	0.24	0.39
RD-34B	SMRD-34B-GW031811	Ba-137m	Total	-0.07	NA	0.45	NA
RD-34B	SMRD-34B-GW031811	Bi-212	Filtered	1.4 U	12	3.4	5.6
RD-34B	SMRD-34B-GW031811	Bi-212	Suspended	1.7 U	5.2	1.5	2.5
RD-34B	SMRD-34B-GW031811	Bi-212	Total	3.1	NA	3.8	NA
RD-34B	SMRD-34B-GW031811	Bi-214	Filtered	2.3	3.6	1.4	1.7
RD-34B	SMRD-34B-GW031811	Bi-214	Suspended	-0.51 U	1.6	0.73	0.78
RD-34B	SMRD-34B-GW031811	Bi-214	Total	1.8	NA	1.6	NA
RD-34B	SMRD-34B-GW031811	Cd-113m	Filtered	-2100 U	18000	5400	8900
RD-34B	SMRD-34B-GW031811	Cd-113m	Suspended	-2000 U	7200	2200	3500
RD-34B	SMRD-34B-GW031811	Cd-113m	Total	-4100	NA	5800	NA
RD-34B	SMRD-34B-GW031811	Cf-249	Filtered	0.1 U	6.4	1.8	3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-34B-GW031811	Cf-249	Suspended	0.07 U	2.7	0.8	1.3
RD-34B	SMRD-34B-GW031811	Cf-249	Total	0.2	NA	2	NA
RD-34B	SMRD-34B-GW031811	Co-60	Filtered	-0.77 U	1.8	0.54	0.82
RD-34B	SMRD-34B-GW031811	Co-60	Suspended	-0.07 U	0.63	0.18	0.29
RD-34B	SMRD-34B-GW031811	Co-60	Total	-0.84	NA	0.57	NA
RD-34B	SMRD-34B-GW031811	Cs-134	Filtered	0.21 U	1.5	0.44	0.71
RD-34B	SMRD-34B-GW031811	Cs-134	Suspended	-0.33 U	0.79	0.24	0.38
RD-34B	SMRD-34B-GW031811	Cs-134	Total	-0.12	NA	0.5	NA
RD-34B	SMRD-34B-GW031811	Cs-137	Filtered	-0.07 U	1.4	0.41	0.67
RD-34B	SMRD-34B-GW031811	Cs-137	Suspended	0 U	0.85	0.25	0.41
RD-34B	SMRD-34B-GW031811	Cs-137	Total	-0.07	NA	0.48	NA
RD-34B	SMRD-34B-GW031811	Eu-152	Filtered	1 U	4.1	1.2	1.9
RD-34B	SMRD-34B-GW031811	Eu-152	Suspended	-0.43 U	1.8	0.55	0.89
RD-34B	SMRD-34B-GW031811	Eu-152	Total	0.6	NA	1.3	NA
RD-34B	SMRD-34B-GW031811	Eu-154	Filtered	-0.5 U	13	3.6	5.8
RD-34B	SMRD-34B-GW031811	Eu-154	Suspended	-1.1 U	6.2	1.8	3
RD-34B	SMRD-34B-GW031811	Eu-154	Total	-1.6	NA	4	NA
RD-34B	SMRD-34B-GW031811	Eu-155	Filtered	1.2 U	4	1.2	2
RD-34B	SMRD-34B-GW031811	Eu-155	Suspended	0.3 U	1.2	0.36	0.59
RD-34B	SMRD-34B-GW031811	Eu-155	Total	1.5	NA	1.3	NA
RD-34B	SMRD-34B-GW031811	gross_alpha	Filtered	3.49 L	0.48	0.39	0.25
RD-34B	SMRD-34B-GW031811	gross_alpha	Suspended	0.18 U	0.41	0.12	0.21
RD-34B	SMRD-34B-GW031811	gross_alpha	Total	3.67	NA	0.41	NA
RD-34B	SMRD-34B-GW031811	gross_beta	Filtered	5.56	2.5	0.99	1.5
RD-34B	SMRD-34B-GW031811	gross_beta	Suspended	-1.12 R U	1.2	0.29	0.71
RD-34B	SMRD-34B-GW031811	gross_beta	Total	4.4	NA	1	NA
RD-34B	SMRD-34B-GW031811	H-3	Total	187	150	50	75
RD-34B	SMRD-34B-GW031811	Ho-166m	Filtered	0.44 U	2.4	0.7	1.1
RD-34B	SMRD-34B-GW031811	Ho-166m	Suspended	-0.16 U	1.2	0.35	0.56
RD-34B	SMRD-34B-GW031811	Ho-166m	Total	0.28	NA	0.78	NA
RD-34B	SMRD-34B-GW031811	K-40	Filtered	-30 U	20	130	10
RD-34B	SMRD-34B-GW031811	K-40	Suspended	-1 U	13	4.4	6
RD-34B	SMRD-34B-GW031811	K-40	Total	-30	NA	130	NA
RD-34B	SMRD-34B-GW031811	Na-22	Filtered	-0.1 U	1.6	0.45	0.73
RD-34B	SMRD-34B-GW031811	Na-22	Suspended	-0.14 U	0.71	0.21	0.33
RD-34B	SMRD-34B-GW031811	Na-22	Total	-0.24	NA	0.49	NA
RD-34B	SMRD-34B-GW031811	Nb-94	Filtered	0.01 U	1.3	0.36	0.59
RD-34B	SMRD-34B-GW031811	Nb-94	Suspended	-0.003 U	0.56	0.16	0.26

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-34B-GW031811	Nb-94	Total	0.01	NA	0.39	NA
RD-34B	SMRD-34B-GW031811	Np-236	Filtered	0.008 U	3.5	1	1.7
RD-34B	SMRD-34B-GW031811	Np-236	Suspended	-0.06 U	1.2	0.36	0.59
RD-34B	SMRD-34B-GW031811	Np-236	Total	-0.06	NA	1.1	NA
RD-34B	SMRD-34B-GW031811	Np-239	Filtered	-0.3 U	9.4	2.8	4.5
RD-34B	SMRD-34B-GW031811	Np-239	Suspended	0.02 U	3.6	1	1.7
RD-34B	SMRD-34B-GW031811	Np-239	Total	-0.3	NA	2.9	NA
RD-34B	SMRD-34B-GW031811	Pa-231	Filtered	-14 U	60	18	29
RD-34B	SMRD-34B-GW031811	Pa-231	Suspended	-0.6 U	27	7.9	13
RD-34B	SMRD-34B-GW031811	Pa-231	Total	-15	NA	20	NA
RD-34B	SMRD-34B-GW031811	Pb-212	Filtered	-0.26 U	2.7	0.96	1.3
RD-34B	SMRD-34B-GW031811	Pb-212	Suspended	0.57	1	0.32	0.5
RD-34B	SMRD-34B-GW031811	Pb-212	Total	0.3	NA	1	NA
RD-34B	SMRD-34B-GW031811	Pb-214	Filtered	2.24	3.3	0.96	1.6
RD-34B	SMRD-34B-GW031811	Pb-214	Suspended	-1.08 U	1.5	0.87	0.75
RD-34B	SMRD-34B-GW031811	Pb-214	Total	1.2	NA	1.3	NA
RD-34B	SMRD-34B-GW031811	Sb-125	Filtered	3.1 U	14	4.3	6.9
RD-34B	SMRD-34B-GW031811	Sb-125	Suspended	-0.5 U	5.5	1.6	2.7
RD-34B	SMRD-34B-GW031811	Sb-125	Total	2.6	NA	4.6	NA
RD-34B	SMRD-34B-GW031811	Sn-126	Filtered	0.99	1.4	0.44	0.65
RD-34B	SMRD-34B-GW031811	Sn-126	Suspended	0.22 U	0.73	0.22	0.35
RD-34B	SMRD-34B-GW031811	Sn-126	Total	1.21	NA	0.49	NA
RD-34B	SMRD-34B-GW031811	Sr-90	Filtered	-0.114 L U	0.2	0.051	0.12
RD-34B	SMRD-34B-GW031811	Sr-90	Suspended	-0.038 U	0.16	0.042	0.093
RD-34B	SMRD-34B-GW031811	Sr-90	Total	-0.152 L	NA	0.066	NA
RD-34B	SMRD-34B-GW031811	Te-125m	Filtered	0.71 U	3.3	0.99	1.6
RD-34B	SMRD-34B-GW031811	Te-125m	Suspended	-0.11 U	1.3	0.38	0.62
RD-34B	SMRD-34B-GW031811	Te-125m	Total	0.6	NA	1.1	NA
RD-34B	SMRD-34B-GW031811	Th-231	Filtered	0.044	0.017	0.011	0.005
RD-34B	SMRD-34B-GW031811	Th-231	Suspended	0 U	0.006	0.0018	0.0046
RD-34B	SMRD-34B-GW031811	Th-231	Total	0.044	NA	0.011	NA
RD-34B	SMRD-34B-GW031811	Th-234	Filtered	-2.4 U	25	9.1	12
RD-34B	SMRD-34B-GW031811	Th-234	Suspended	4.2	8.2	2.6	4
RD-34B	SMRD-34B-GW031811	Th-234	Total	1.8	NA	9.5	NA
RD-34B	SMRD-34B-GW031811	Tl-208	Filtered	-0.35 U	2	0.66	0.95
RD-34B	SMRD-34B-GW031811	Tl-208	Suspended	-0.31 U	0.87	0.43	0.42
RD-34B	SMRD-34B-GW031811	Tl-208	Total	-0.66	NA	0.79	NA
RD-34B	SMRD-34B-GW031811	Tm-171	Filtered	80 U	400	120	200

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34B	SMRD-34B-GW031811	Tm-171	Suspended	23 U	110	32	53
RD-34B	SMRD-34B-GW031811	Tm-171	Total	110	NA	120	NA
RD-34B	SMRD-34B-GW031811	U-233/234	Filtered	1.23	0.014	0.072	0.004
RD-34B	SMRD-34B-GW031811	U-233/234	Suspended	0.0156	0.012	0.007	0.0037
RD-34B	SMRD-34B-GW031811	U-233/234	Total	1.24	NA	0.073	NA
RD-34B	SMRD-34B-GW031811	U-235/236	Filtered	0.044	0.017	0.011	0.005
RD-34B	SMRD-34B-GW031811	U-235/236	Suspended	0 U	0.006	0.0018	0.0046
RD-34B	SMRD-34B-GW031811	U-235/236	Total	0.044	NA	0.011	NA
RD-34B	SMRD-34B-GW031811	U-238	Filtered	0.987	0.014	0.061	0.004
RD-34B	SMRD-34B-GW031811	U-238	Suspended	0.0071	0.0048	0.005	0.0037
RD-34B	SMRD-34B-GW031811	U-238	Total	0.994	NA	0.062	NA
RD-34C	SMRD-34C-GW032211	Ac-227	Filtered	-5 U	9.3	2.8	4.5
RD-34C	SMRD-34C-GW032211	Ac-227	Suspended	0.09 U	3.8	1.1	1.8
RD-34C	SMRD-34C-GW032211	Ac-227	Total	-4.9	NA	3	NA
RD-34C	SMRD-34C-GW032211	Ac-228	Filtered	7.3	3.3	1.4	1.5
RD-34C	SMRD-34C-GW032211	Ac-228	Suspended	-1.1 U	2.6	1.6	1.2
RD-34C	SMRD-34C-GW032211	Ac-228	Total	6.1	NA	2.1	NA
RD-34C	SMRD-34C-GW032211	Ag-108	Filtered	0.008 U R	0.09	0.026	0.043
RD-34C	SMRD-34C-GW032211	Ag-108	Suspended	-0.0002 U R	0.054	0.016	0.026
RD-34C	SMRD-34C-GW032211	Ag-108	Total	0.008 R	NA	0.031	NA
RD-34C	SMRD-34C-GW032211	Ag-108m	Filtered	0.09 U R	0.97	0.28	0.47
RD-34C	SMRD-34C-GW032211	Ag-108m	Suspended	-0.002 U R	0.59	0.17	0.28
RD-34C	SMRD-34C-GW032211	Ag-108m	Total	0.09 R	NA	0.33	NA
RD-34C	SMRD-34C-GW032211	Ba-133	Filtered	-0.6 U R	11	3.3	5.5
RD-34C	SMRD-34C-GW032211	Ba-133	Suspended	-0.6 U R	6	1.8	2.9
RD-34C	SMRD-34C-GW032211	Ba-133	Total	-1.3 R	NA	3.8	NA
RD-34C	SMRD-34C-GW032211	Ba-137m	Filtered	-0.03 U	1.1	0.32	0.53
RD-34C	SMRD-34C-GW032211	Ba-137m	Suspended	-0.1 U	0.67	0.2	0.32
RD-34C	SMRD-34C-GW032211	Ba-137m	Total	-0.13	NA	0.38	NA
RD-34C	SMRD-34C-GW032211	Bi-212	Filtered	-1.8 U	10	4.2	4.8
RD-34C	SMRD-34C-GW032211	Bi-212	Suspended	6.4	3.8	1.7	1.8
RD-34C	SMRD-34C-GW032211	Bi-212	Total	4.7	NA	4.6	NA
RD-34C	SMRD-34C-GW032211	Bi-214	Filtered	0.98 U	2.7	0.82	1.3
RD-34C	SMRD-34C-GW032211	Bi-214	Suspended	0.14 U	1.7	0.64	0.84
RD-34C	SMRD-34C-GW032211	Bi-214	Total	1.1	NA	1	NA
RD-34C	SMRD-34C-GW032211	Cd-113m	Filtered	-2400 U	14000	4200	6800
RD-34C	SMRD-34C-GW032211	Cd-113m	Suspended	600 U	7100	2100	3400
RD-34C	SMRD-34C-GW032211	Cd-113m	Total	-1800	NA	4700	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW032211	Cf-249	Filtered	1.4 U R	5.3	1.6	2.5
RD-34C	SMRD-34C-GW032211	Cf-249	Suspended	-0.18 U R	3	0.88	1.4
RD-34C	SMRD-34C-GW032211	Cf-249	Total	1.3 R	NA	1.8	NA
RD-34C	SMRD-34C-GW032211	Co-60	Filtered	-0.12 U	1.2	0.34	0.55
RD-34C	SMRD-34C-GW032211	Co-60	Suspended	0.16 U	0.73	0.21	0.34
RD-34C	SMRD-34C-GW032211	Co-60	Total	0.03	NA	0.4	NA
RD-34C	SMRD-34C-GW032211	Cs-134	Filtered	-0.28 U	1.2	0.36	0.58
RD-34C	SMRD-34C-GW032211	Cs-134	Suspended	-0.02 U	0.62	0.18	0.3
RD-34C	SMRD-34C-GW032211	Cs-134	Total	-0.3	NA	0.4	NA
RD-34C	SMRD-34C-GW032211	Cs-137	Filtered	-0.03 U	1.2	0.34	0.56
RD-34C	SMRD-34C-GW032211	Cs-137	Suspended	-0.11 U	0.71	0.21	0.34
RD-34C	SMRD-34C-GW032211	Cs-137	Total	-0.14	NA	0.4	NA
RD-34C	SMRD-34C-GW032211	Eu-152	Filtered	0.5 U	3.2	0.96	1.6
RD-34C	SMRD-34C-GW032211	Eu-152	Suspended	0.12 U	1.7	0.51	0.83
RD-34C	SMRD-34C-GW032211	Eu-152	Total	0.6	NA	1.1	NA
RD-34C	SMRD-34C-GW032211	Eu-154	Filtered	2.4 U	8.3	2.4	3.9
RD-34C	SMRD-34C-GW032211	Eu-154	Suspended	-1.6 U	6	1.8	2.8
RD-34C	SMRD-34C-GW032211	Eu-154	Total	0.8	NA	3	NA
RD-34C	SMRD-34C-GW032211	Eu-155	Filtered	0.32 U	2.8	0.83	1.4
RD-34C	SMRD-34C-GW032211	Eu-155	Suspended	0.23 U	1.3	0.38	0.61
RD-34C	SMRD-34C-GW032211	Eu-155	Total	0.55	NA	0.92	NA
RD-34C	SMRD-34C-GW032211	gross_alpha	Filtered	1.66	0.35	0.27	0.16
RD-34C	SMRD-34C-GW032211	gross_alpha	Suspended	0.24	0.38	0.12	0.19
RD-34C	SMRD-34C-GW032211	gross_alpha	Total	1.9	NA	0.3	NA
RD-34C	SMRD-34C-GW032211	gross_beta	Filtered	3.88	1.9	0.73	1.1
RD-34C	SMRD-34C-GW032211	gross_beta	Suspended	0.18 U	0.88	0.26	0.53
RD-34C	SMRD-34C-GW032211	gross_beta	Total	4.06	NA	0.77	NA
RD-34C	SMRD-34C-GW032211	H-3	Total	132	150	48	74
RD-34C	SMRD-34C-GW032211	Ho-166m	Filtered	-0.02 U	2	0.58	0.96
RD-34C	SMRD-34C-GW032211	Ho-166m	Suspended	0.09 U	1	0.29	0.48
RD-34C	SMRD-34C-GW032211	Ho-166m	Total	0.07	NA	0.65	NA
RD-34C	SMRD-34C-GW032211	K-40	Filtered	12.7	17	5	8.2
RD-34C	SMRD-34C-GW032211	K-40	Suspended	3.3 U	12	3.3	5.7
RD-34C	SMRD-34C-GW032211	K-40	Total	16	NA	6	NA
RD-34C	SMRD-34C-GW032211	Na-22	Filtered	-0.32 U	1.3	0.39	0.63
RD-34C	SMRD-34C-GW032211	Na-22	Suspended	0.1 U	0.72	0.21	0.33
RD-34C	SMRD-34C-GW032211	Na-22	Total	-0.21	NA	0.45	NA
RD-34C	SMRD-34C-GW032211	Nb-94	Filtered	0.03 U	1.1	0.32	0.52

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW032211	Nb-94	Suspended	0.16 U	0.68	0.2	0.32
RD-34C	SMRD-34C-GW032211	Nb-94	Total	0.19	NA	0.38	NA
RD-34C	SMRD-34C-GW032211	Np-236	Filtered	-0.79 U	2.6	0.79	1.3
RD-34C	SMRD-34C-GW032211	Np-236	Suspended	0 U	1.3	0.39	0.63
RD-34C	SMRD-34C-GW032211	Np-236	Total	-0.79	NA	0.88	NA
RD-34C	SMRD-34C-GW032211	Np-239	Filtered	-1.4 U	7.3	2.2	3.6
RD-34C	SMRD-34C-GW032211	Np-239	Suspended	-0.04 U	3.6	1.1	1.7
RD-34C	SMRD-34C-GW032211	Np-239	Total	-1.4	NA	2.4	NA
RD-34C	SMRD-34C-GW032211	Pa-231	Filtered	3 U	53	16	25
RD-34C	SMRD-34C-GW032211	Pa-231	Suspended	0.8 U	26	7.7	13
RD-34C	SMRD-34C-GW032211	Pa-231	Total	4	NA	17	NA
RD-34C	SMRD-34C-GW032211	Pb-212	Filtered	0.6 U	2.5	0.91	1.2
RD-34C	SMRD-34C-GW032211	Pb-212	Suspended	-0.13 U	1.3	0.38	0.62
RD-34C	SMRD-34C-GW032211	Pb-212	Total	0.47	NA	0.99	NA
RD-34C	SMRD-34C-GW032211	Pb-214	Filtered	0.05 U	2.8	0.76	1.4
RD-34C	SMRD-34C-GW032211	Pb-214	Suspended	-0.75 U	1.5	0.64	0.72
RD-34C	SMRD-34C-GW032211	Pb-214	Total	-0.7	NA	0.99	NA
RD-34C	SMRD-34C-GW032211	Sb-125	Filtered	-3.3 U	12	3.5	5.7
RD-34C	SMRD-34C-GW032211	Sb-125	Suspended	0.07 U	5.6	1.7	2.7
RD-34C	SMRD-34C-GW032211	Sb-125	Total	-3.2	NA	3.9	NA
RD-34C	SMRD-34C-GW032211	Sn-126	Filtered	0.39 U	1.2	0.37	0.59
RD-34C	SMRD-34C-GW032211	Sn-126	Suspended	0.23 U	0.77	0.23	0.37
RD-34C	SMRD-34C-GW032211	Sn-126	Total	0.62	NA	0.44	NA
RD-34C	SMRD-34C-GW032211	Sr-90	Filtered	0.026 U	0.054	0.016	0.031
RD-34C	SMRD-34C-GW032211	Sr-90	Suspended	0.01 U	0.12	0.035	0.068
RD-34C	SMRD-34C-GW032211	Sr-90	Total	0.01	NA	0.035	NA
RD-34C	SMRD-34C-GW032211	Te-125m	Filtered	-0.76 U	2.7	0.81	1.3
RD-34C	SMRD-34C-GW032211	Te-125m	Suspended	0.02 U	1.3	0.38	0.63
RD-34C	SMRD-34C-GW032211	Te-125m	Total	-0.74	NA	0.9	NA
RD-34C	SMRD-34C-GW032211	Th-231	Filtered	0.0053 U	0.0071	0.0037	0.0055
RD-34C	SMRD-34C-GW032211	Th-231	Suspended	0 U	0.013	0.004	0.01
RD-34C	SMRD-34C-GW032211	Th-231	Total	0.0053	NA	0.0055	NA
RD-34C	SMRD-34C-GW032211	Th-234	Filtered	-2.6 U	22	8.8	11
RD-34C	SMRD-34C-GW032211	Th-234	Suspended	2.7 U	8.2	2.5	4
RD-34C	SMRD-34C-GW032211	Th-234	Total	0.1	NA	9.1	NA
RD-34C	SMRD-34C-GW032211	Tl-208	Filtered	0.52 U	1.3	0.44	0.61
RD-34C	SMRD-34C-GW032211	Tl-208	Suspended	-0.04 U	0.72	0.24	0.35
RD-34C	SMRD-34C-GW032211	Tl-208	Total	0.48	NA	0.5	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-34C	SMRD-34C-GW032211	Tm-171	Filtered	2 U	340	100	170
RD-34C	SMRD-34C-GW032211	Tm-171	Suspended	17 U	100	30	49
RD-34C	SMRD-34C-GW032211	Tm-171	Total	20	NA	100	NA
RD-34C	SMRD-34C-GW032211	U-233/234	Filtered	0.253	0.018	0.026	0.006
RD-34C	SMRD-34C-GW032211	U-233/234	Suspended	-0.0099 U	0.033	0.0092	0.012
RD-34C	SMRD-34C-GW032211	U-233/234	Total	0.243	NA	0.028	NA
RD-34C	SMRD-34C-GW032211	U-235/236	Filtered	0.0053 U	0.0071	0.0037	0.0055
RD-34C	SMRD-34C-GW032211	U-235/236	Suspended	0 U	0.013	0.004	0.01
RD-34C	SMRD-34C-GW032211	U-235/236	Total	0.0053	NA	0.0055	NA
RD-34C	SMRD-34C-GW032211	U-238	Filtered	0.092	0.006	0.015	0.004
RD-34C	SMRD-34C-GW032211	U-238	Suspended	-0.0065 U	0.011	0.0057	0.0083
RD-34C	SMRD-34C-GW032211	U-238	Total	0.085	NA	0.016	NA
RD-50	SMRD-50-GW033111	Ac-227	Filtered	-5.4 U	9.8	3	4.8
RD-50	SMRD-50-GW033111	Ac-227	Suspended	-2.1 U	4.6	1.4	2.2
RD-50	SMRD-50-GW033111	Ac-227	Total	-7.5 L	NA	3.3	NA
RD-50	SMRD-50-GW033111	Ac-228	Filtered	2.7	4	1.2	1.9
RD-50	SMRD-50-GW033111	Ac-228	Suspended	-0.09 U	2.7	0.77	1.3
RD-50	SMRD-50-GW033111	Ac-228	Total	2.6	NA	1.5	NA
RD-50	SMRD-50-GW033111	Ag-108	Filtered	-0.007 U R	0.088	0.026	0.042
RD-50	SMRD-50-GW033111	Ag-108	Suspended	-0.017 U R	0.056	0.017	0.027
RD-50	SMRD-50-GW033111	Ag-108	Total	-0.024 R	NA	0.031	NA
RD-50	SMRD-50-GW033111	Ag-108m	Filtered	-0.08 U R	0.95	0.28	0.45
RD-50	SMRD-50-GW033111	Ag-108m	Suspended	-0.18 U R	0.6	0.18	0.29
RD-50	SMRD-50-GW033111	Ag-108m	Total	-0.26 R	NA	0.33	NA
RD-50	SMRD-50-GW033111	Ba-133	Filtered	1.4 U R	11	3.3	5.4
RD-50	SMRD-50-GW033111	Ba-133	Suspended	0.3 U R	6.4	1.9	3.1
RD-50	SMRD-50-GW033111	Ba-133	Total	1.7 R	NA	3.8	NA
RD-50	SMRD-50-GW033111	Ba-137m	Filtered	0.37 U	0.9	0.27	0.42
RD-50	SMRD-50-GW033111	Ba-137m	Suspended	0.31	0.66	0.2	0.31
RD-50	SMRD-50-GW033111	Ba-137m	Total	0.68	NA	0.34	NA
RD-50	SMRD-50-GW033111	Bi-212	Filtered	-1.8 U	8.7	2.6	4.1
RD-50	SMRD-50-GW033111	Bi-212	Suspended	0 U	6.5	1.9	3.1
RD-50	SMRD-50-GW033111	Bi-212	Total	-1.8	NA	3.2	NA
RD-50	SMRD-50-GW033111	Bi-214	Filtered	2.85	2.6	0.73	1.3
RD-50	SMRD-50-GW033111	Bi-214	Suspended	0.39 U	1.5	0.51	0.74
RD-50	SMRD-50-GW033111	Bi-214	Total	3.24	NA	0.89	NA
RD-50	SMRD-50-GW033111	Cd-113m	Filtered	-2000 U	14000	4100	6600
RD-50	SMRD-50-GW033111	Cd-113m	Suspended	0 U	7200	2100	3500

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW033111	Cd-113m	Total	-2000	NA	4600	NA
RD-50	SMRD-50-GW033111	Cf-249	Filtered	2.3 U R	5.2	1.6	2.5
RD-50	SMRD-50-GW033111	Cf-249	Suspended	-0.3 U R	3.2	0.94	1.5
RD-50	SMRD-50-GW033111	Cf-249	Total	2 R	NA	1.8	NA
RD-50	SMRD-50-GW033111	Co-60	Filtered	0.11 U	1.2	0.36	0.58
RD-50	SMRD-50-GW033111	Co-60	Suspended	-0.05 U	0.77	0.22	0.36
RD-50	SMRD-50-GW033111	Co-60	Total	0.06	NA	0.42	NA
RD-50	SMRD-50-GW033111	Cs-134	Filtered	0.14 U	1.2	0.36	0.59
RD-50	SMRD-50-GW033111	Cs-134	Suspended	0.08 U	0.6	0.17	0.28
RD-50	SMRD-50-GW033111	Cs-134	Total	0.22	NA	0.4	NA
RD-50	SMRD-50-GW033111	Cs-137	Filtered	0.39 U	0.95	0.29	0.45
RD-50	SMRD-50-GW033111	Cs-137	Suspended	0.33	0.69	0.21	0.33
RD-50	SMRD-50-GW033111	Cs-137	Total	0.72	NA	0.36	NA
RD-50	SMRD-50-GW033111	Eu-152	Filtered	0.02 U	2.9	0.85	1.4
RD-50	SMRD-50-GW033111	Eu-152	Suspended	-0.45 U	1.9	0.56	0.9
RD-50	SMRD-50-GW033111	Eu-152	Total	-0.4	NA	1	NA
RD-50	SMRD-50-GW033111	Eu-154	Filtered	1.4 U	8.7	2.5	4.1
RD-50	SMRD-50-GW033111	Eu-154	Suspended	0.8 U	6.2	1.8	2.9
RD-50	SMRD-50-GW033111	Eu-154	Total	2.2	NA	3.1	NA
RD-50	SMRD-50-GW033111	Eu-155	Filtered	0.8 U	3.2	0.95	1.5
RD-50	SMRD-50-GW033111	Eu-155	Suspended	0.03 U	1.2	0.36	0.58
RD-50	SMRD-50-GW033111	Eu-155	Total	0.8	NA	1	NA
RD-50	SMRD-50-GW040111	gross_alpha	Filtered	21.4	0.7	1.2	0.4
RD-50	SMRD-50-GW040111	gross_alpha	Suspended	-0.14 U	0.95	0.23	0.52
RD-50	SMRD-50-GW040111	gross_alpha	Total	21.3	NA	1.2	NA
RD-50	SMRD-50-GW040111	gross_beta	Filtered	6.3	2.9	1.1	1.7
RD-50	SMRD-50-GW040111	gross_beta	Suspended	0.18 U	0.8	0.24	0.47
RD-50	SMRD-50-GW040111	gross_beta	Total	6.5	NA	1.2	NA
RD-50	SMRD-50-GW040111	H-3	Total	46 U	130	40	64
RD-50	SMRD-50-GW033111	Ho-166m	Filtered	0.05 U	1.7	0.49	0.81
RD-50	SMRD-50-GW033111	Ho-166m	Suspended	0.29 U	1.1	0.31	0.5
RD-50	SMRD-50-GW033111	Ho-166m	Total	0.33	NA	0.58	NA
RD-50	SMRD-50-GW033111	K-40	Filtered	-3.9 U	18	6.5	8.3
RD-50	SMRD-50-GW033111	K-40	Suspended	2.9 U	9.9	2.9	4.7
RD-50	SMRD-50-GW033111	K-40	Total	-1	NA	7.2	NA
RD-50	SMRD-50-GW033111	Na-22	Filtered	0.27 U	1.1	0.32	0.5
RD-50	SMRD-50-GW033111	Na-22	Suspended	0.12 U	0.75	0.22	0.35
RD-50	SMRD-50-GW033111	Na-22	Total	0.39	NA	0.39	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW033111	Nb-94	Filtered	0.05 U	0.95	0.28	0.45
RD-50	SMRD-50-GW033111	Nb-94	Suspended	-0.001 U	0.63	0.18	0.3
RD-50	SMRD-50-GW033111	Nb-94	Total	0.05	NA	0.33	NA
RD-50	SMRD-50-GW033111	Np-236	Filtered	-0.61 U	2.8	0.84	1.4
RD-50	SMRD-50-GW033111	Np-236	Suspended	-0.17 U	1.2	0.36	0.58
RD-50	SMRD-50-GW033111	Np-236	Total	-0.78	NA	0.91	NA
RD-50	SMRD-50-GW033111	Np-239	Filtered	-1.3 U	7.4	2.2	3.6
RD-50	SMRD-50-GW033111	Np-239	Suspended	-0.6 U	3.9	1.2	1.9
RD-50	SMRD-50-GW033111	Np-239	Total	-2	NA	2.5	NA
RD-50	SMRD-50-GW033111	Pa-231	Filtered	-8 U	54	16	26
RD-50	SMRD-50-GW033111	Pa-231	Suspended	5.4 U	28	8.5	14
RD-50	SMRD-50-GW033111	Pa-231	Total	-3	NA	18	NA
RD-50	SMRD-50-GW033111	Pb-212	Filtered	0.36 U	2.5	0.86	1.2
RD-50	SMRD-50-GW033111	Pb-212	Suspended	0.61	1.1	0.35	0.51
RD-50	SMRD-50-GW033111	Pb-212	Total	0.98	NA	0.93	NA
RD-50	SMRD-50-GW033111	Pb-214	Filtered	0.01 U	2.8	0.76	1.4
RD-50	SMRD-50-GW033111	Pb-214	Suspended	-0.44 U	1.6	0.63	0.8
RD-50	SMRD-50-GW033111	Pb-214	Total	-0.42	NA	0.99	NA
RD-50	SMRD-50-GW033111	Sb-125	Filtered	-2 U	13	3.9	6.4
RD-50	SMRD-50-GW033111	Sb-125	Suspended	-1.1 U	5.6	1.7	2.7
RD-50	SMRD-50-GW033111	Sb-125	Total	-3.1	NA	4.3	NA
RD-50	SMRD-50-GW033111	Sn-126	Filtered	-0.16 U	1.3	0.39	0.63
RD-50	SMRD-50-GW033111	Sn-126	Suspended	-0.004 U	0.76	0.22	0.36
RD-50	SMRD-50-GW033111	Sn-126	Total	-0.16	NA	0.45	NA
RD-50	SMRD-50-GW033111	Sr-90	Filtered	0.064 U	0.13	0.039	0.072
RD-50	SMRD-50-GW033111	Sr-90	Suspended	0.019 U	0.054	0.016	0.03
RD-50	SMRD-50-GW033111	Sr-90	Total	0.083	NA	0.042	NA
RD-50	SMRD-50-GW033111	Te-125m	Filtered	-0.46 U	3	0.9	1.5
RD-50	SMRD-50-GW033111	Te-125m	Suspended	-0.26 U	1.3	0.39	0.63
RD-50	SMRD-50-GW033111	Te-125m	Total	-0.72	NA	0.98	NA
RD-50	SMRD-50-GW033111	Th-231	Filtered	0.489	0.007	0.041	0.005
RD-50	SMRD-50-GW033111	Th-231	Suspended	0.0051 U	0.0069	0.0036	0.0053
RD-50	SMRD-50-GW033111	Th-231	Total	0.495	NA	0.041	NA
RD-50	SMRD-50-GW033111	Th-234	Filtered	0.4 U	25	8.8	12
RD-50	SMRD-50-GW033111	Th-234	Suspended	-1.4 U	7.7	3	3.8
RD-50	SMRD-50-GW033111	Th-234	Total	-1	NA	9.3	NA
RD-50	SMRD-50-GW033111	Tl-208	Filtered	0.74	1.5	0.6	0.71
RD-50	SMRD-50-GW033111	Tl-208	Suspended	0.64	0.71	0.29	0.34

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-50	SMRD-50-GW033111	Tl-208	Total	1.38	NA	0.66	NA
RD-50	SMRD-50-GW033111	Tm-171	Filtered	110 U	370	110	180
RD-50	SMRD-50-GW033111	Tm-171	Suspended	6 U	120	36	59
RD-50	SMRD-50-GW033111	Tm-171	Total	120	NA	120	NA
RD-50	SMRD-50-GW033111	U-233/234	Filtered	12.1	0.02	0.53	0.006
RD-50	SMRD-50-GW033111	U-233/234	Suspended	-0.0021 U	0.014	0.0048	0.0042
RD-50	SMRD-50-GW033111	U-233/234	Total	12.1	NA	0.53	NA
RD-50	SMRD-50-GW033111	U-235/236	Filtered	0.489	0.007	0.041	0.005
RD-50	SMRD-50-GW033111	U-235/236	Suspended	0.0051 U	0.0069	0.0036	0.0053
RD-50	SMRD-50-GW033111	U-235/236	Total	0.494	NA	0.041	NA
RD-50	SMRD-50-GW033111	U-238	Filtered	9.32	0.006	0.42	0.004
RD-50	SMRD-50-GW033111	U-238	Suspended	0.0084 K	0.0055	0.0058	0.0042
RD-50	SMRD-50-GW033111	U-238	Total	9.33	NA	0.42	NA
RD-54A	SMRD-54A-GW040111	Ac-227	Filtered	-3 U	8.7	2.6	4.2
RD-54A	SMRD-54A-GW040111	Ac-227	Suspended	-0.8 U	4.1	1.2	2
RD-54A	SMRD-54A-GW040111	Ac-227	Total	-3.8	NA	2.9	NA
RD-54A	SMRD-54A-GW040111	Ac-228	Filtered	-0.2 U	4.1	1.2	1.9
RD-54A	SMRD-54A-GW040111	Ac-228	Suspended	-0.41 U	3	0.98	1.4
RD-54A	SMRD-54A-GW040111	Ac-228	Total	-0.6	NA	1.5	NA
RD-54A	SMRD-54A-GW040111	Ag-108	Filtered	-0.02 U R	0.089	0.026	0.042
RD-54A	SMRD-54A-GW040111	Ag-108	Suspended	-0.004 U R	0.044	0.013	0.021
RD-54A	SMRD-54A-GW040111	Ag-108	Total	-0.023 R	NA	0.029	NA
RD-54A	SMRD-54A-GW040111	Ag-108m	Filtered	-0.21 U R	0.96	0.28	0.45
RD-54A	SMRD-54A-GW040111	Ag-108m	Suspended	-0.04 U R	0.47	0.14	0.22
RD-54A	SMRD-54A-GW040111	Ag-108m	Total	-0.25 R	NA	0.31	NA
RD-54A	SMRD-54A-GW040111	Ba-133	Filtered	-2.2 U R	13	3.7	6.1
RD-54A	SMRD-54A-GW040111	Ba-133	Suspended	-1.7 U R	5.4	1.6	2.6
RD-54A	SMRD-54A-GW040111	Ba-133	Total	-3.8 R	NA	4.1	NA
RD-54A	SMRD-54A-GW040111	Ba-137m	Filtered	0.18 U	1.2	0.36	0.57
RD-54A	SMRD-54A-GW040111	Ba-137m	Suspended	0.22 U	0.7	0.21	0.33
RD-54A	SMRD-54A-GW040111	Ba-137m	Total	0.4	NA	0.41	NA
RD-54A	SMRD-54A-GW040111	Bi-212	Filtered	2.1 U	7	2.1	3.2
RD-54A	SMRD-54A-GW040111	Bi-212	Suspended	2 U	5.3	1.6	2.5
RD-54A	SMRD-54A-GW040111	Bi-212	Total	4	NA	2.6	NA
RD-54A	SMRD-54A-GW040111	Bi-214	Filtered	1.47	2.4	0.79	1.1
RD-54A	SMRD-54A-GW040111	Bi-214	Suspended	1.45	1.8	0.76	0.86
RD-54A	SMRD-54A-GW040111	Bi-214	Total	2.9	NA	1.1	NA
RD-54A	SMRD-54A-GW040111	Cd-113m	Filtered	1400 U	14000	4300	7000

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW040111	Cd-113m	Suspended	1700 U	6700	2000	3200
RD-54A	SMRD-54A-GW040111	Cd-113m	Total	3100	NA	4700	NA
RD-54A	SMRD-54A-GW040111	Cf-249	Filtered	-0.8 U R	5.7	1.7	2.7
RD-54A	SMRD-54A-GW040111	Cf-249	Suspended	-0.49 U R	3.3	0.98	1.6
RD-54A	SMRD-54A-GW040111	Cf-249	Total	-1.3 R	NA	1.9	NA
RD-54A	SMRD-54A-GW040111	Co-60	Filtered	0.16 U	1.3	0.36	0.58
RD-54A	SMRD-54A-GW040111	Co-60	Suspended	-0.14 U	0.79	0.23	0.37
RD-54A	SMRD-54A-GW040111	Co-60	Total	0.01	NA	0.43	NA
RD-54A	SMRD-54A-GW040111	Cs-134	Filtered	-0.53 U	1.3	0.4	0.63
RD-54A	SMRD-54A-GW040111	Cs-134	Suspended	-0.09 U	0.82	0.24	0.4
RD-54A	SMRD-54A-GW040111	Cs-134	Total	-0.62	NA	0.47	NA
RD-54A	SMRD-54A-GW040111	Cs-137	Filtered	0.19 U	1.3	0.38	0.61
RD-54A	SMRD-54A-GW040111	Cs-137	Suspended	0.23 U	0.74	0.22	0.35
RD-54A	SMRD-54A-GW040111	Cs-137	Total	0.42	NA	0.44	NA
RD-54A	SMRD-54A-GW040111	Eu-152	Filtered	-0.4 U	3.4	1	1.6
RD-54A	SMRD-54A-GW040111	Eu-152	Suspended	-0.1 U	1.7	0.51	0.83
RD-54A	SMRD-54A-GW040111	Eu-152	Total	-0.5	NA	1.1	NA
RD-54A	SMRD-54A-GW040111	Eu-154	Filtered	-0.06 U	9.5	2.7	4.4
RD-54A	SMRD-54A-GW040111	Eu-154	Suspended	-1.1 U	6.1	1.8	2.9
RD-54A	SMRD-54A-GW040111	Eu-154	Total	-1.1	NA	3.2	NA
RD-54A	SMRD-54A-GW040111	Eu-155	Filtered	0.05 U	3.2	0.94	1.5
RD-54A	SMRD-54A-GW040111	Eu-155	Suspended	0.46 U	1.3	0.39	0.63
RD-54A	SMRD-54A-GW040111	Eu-155	Total	0.5	NA	1	NA
RD-54A	SMRD-54A-GW040111	gross_alpha	Filtered	7.73	0.54	0.61	0.29
RD-54A	SMRD-54A-GW040111	gross_alpha	Suspended	-0.02 U	0.64	0.16	0.35
RD-54A	SMRD-54A-GW040111	gross_alpha	Total	7.71	NA	0.63	NA
RD-54A	SMRD-54A-GW040111	gross_beta	Filtered	4.16	2.4	0.89	1.4
RD-54A	SMRD-54A-GW040111	gross_beta	Suspended	-0.58 L U	0.94	0.25	0.57
RD-54A	SMRD-54A-GW040111	gross_beta	Total	3.58	NA	0.92	NA
RD-54A	SMRD-54A-GW040111	H-3	Total	23 U	120	35	57
RD-54A	SMRD-54A-GW040111	Ho-166m	Filtered	-0.19 U	1.8	0.52	0.85
RD-54A	SMRD-54A-GW040111	Ho-166m	Suspended	0.05 U	1	0.3	0.49
RD-54A	SMRD-54A-GW040111	Ho-166m	Total	-0.14	NA	0.6	NA
RD-54A	SMRD-54A-GW040111	K-40	Filtered	2.4 U	17	4.2	8.1
RD-54A	SMRD-54A-GW040111	K-40	Suspended	3.5 U	12	3.9	5.9
RD-54A	SMRD-54A-GW040111	K-40	Total	5.8	NA	5.7	NA
RD-54A	SMRD-54A-GW040111	Na-22	Filtered	-0.04 U	1.2	0.32	0.53
RD-54A	SMRD-54A-GW040111	Na-22	Suspended	-0.12 U	0.76	0.22	0.35

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW040111	Na-22	Total	-0.16	NA	0.39	NA
RD-54A	SMRD-54A-GW040111	Nb-94	Filtered	-0.26 U	1.3	0.39	0.64
RD-54A	SMRD-54A-GW040111	Nb-94	Suspended	0.18 U	0.67	0.2	0.32
RD-54A	SMRD-54A-GW040111	Nb-94	Total	-0.09	NA	0.44	NA
RD-54A	SMRD-54A-GW040111	Np-236	Filtered	-0.2 U	2.5	0.75	1.2
RD-54A	SMRD-54A-GW040111	Np-236	Suspended	0.27 U	1.1	0.32	0.52
RD-54A	SMRD-54A-GW040111	Np-236	Total	0.07	NA	0.81	NA
RD-54A	SMRD-54A-GW040111	Np-239	Filtered	-0.006 U	7.5	2.2	3.6
RD-54A	SMRD-54A-GW040111	Np-239	Suspended	0.83 U	3	0.89	1.4
RD-54A	SMRD-54A-GW040111	Np-239	Total	0.8	NA	2.4	NA
RD-54A	SMRD-54A-GW040111	Pa-231	Filtered	10 U	49	15	24
RD-54A	SMRD-54A-GW040111	Pa-231	Suspended	-1.4 U	26	7.8	13
RD-54A	SMRD-54A-GW040111	Pa-231	Total	9	NA	16	NA
RD-54A	SMRD-54A-GW040111	Pb-212	Filtered	1.74	2.4	0.86	1.2
RD-54A	SMRD-54A-GW040111	Pb-212	Suspended	0.23 U	0.97	0.28	0.47
RD-54A	SMRD-54A-GW040111	Pb-212	Total	1.97	NA	0.9	NA
RD-54A	SMRD-54A-GW040111	Pb-214	Filtered	1.9	2.7	1.1	1.3
RD-54A	SMRD-54A-GW040111	Pb-214	Suspended	0.91	1.2	0.44	0.6
RD-54A	SMRD-54A-GW040111	Pb-214	Total	2.8	NA	1.2	NA
RD-54A	SMRD-54A-GW040111	Sb-125	Filtered	-3.2 U	13	3.9	6.3
RD-54A	SMRD-54A-GW040111	Sb-125	Suspended	0.4 U	5.4	1.6	2.6
RD-54A	SMRD-54A-GW040111	Sb-125	Total	-2.8	NA	4.2	NA
RD-54A	SMRD-54A-GW040111	Sn-126	Filtered	0.49 U	1.2	0.35	0.54
RD-54A	SMRD-54A-GW040111	Sn-126	Suspended	0.32 U	0.8	0.24	0.38
RD-54A	SMRD-54A-GW040111	Sn-126	Total	0.81	NA	0.43	NA
RD-54A	SMRD-54A-GW040111	Sr-90	Filtered	0.017	0.13	0.037	0.071
RD-54A	SMRD-54A-GW040111	Sr-90	Suspended	0.022 U	0.056	0.017	0.032
RD-54A	SMRD-54A-GW040111	Sr-90	Total	0.04	NA	0.04	NA
RD-54A	SMRD-54A-GW040111	Te-125m	Filtered	-0.74 U	3	0.9	1.5
RD-54A	SMRD-54A-GW040111	Te-125m	Suspended	0.09 U	1.3	0.37	0.61
RD-54A	SMRD-54A-GW040111	Te-125m	Total	-0.66	NA	0.97	NA
RD-54A	SMRD-54A-GW040111	Th-231	Filtered	0.129	0.016	0.018	0.005
RD-54A	SMRD-54A-GW040111	Th-231	Suspended	0.0024 U	0.0064	0.0024	0.0049
RD-54A	SMRD-54A-GW040111	Th-231	Total	0.132	NA	0.019	NA
RD-54A	SMRD-54A-GW040111	Th-234	Filtered	11.6	21	7.5	10
RD-54A	SMRD-54A-GW040111	Th-234	Suspended	-4.1 U	8.4	3.2	4.1
RD-54A	SMRD-54A-GW040111	Th-234	Total	7.5	NA	8.2	NA
RD-54A	SMRD-54A-GW040111	Tl-208	Filtered	1.61	1.3	0.47	0.61

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54A	SMRD-54A-GW040111	Tl-208	Suspended	-0.14 U	0.91	0.32	0.44
RD-54A	SMRD-54A-GW040111	Tl-208	Total	1.48	NA	0.57	NA
RD-54A	SMRD-54A-GW040111	Tm-171	Filtered	130 U	350	110	170
RD-54A	SMRD-54A-GW040111	Tm-171	Suspended	0 U	120	36	60
RD-54A	SMRD-54A-GW040111	Tm-171	Total	130	NA	110	NA
RD-54A	SMRD-54A-GW040111	U-233/234	Filtered	3.27	0.005	0.16	0.004
RD-54A	SMRD-54A-GW040111	U-233/234	Suspended	0.057	0.016	0.012	0.006
RD-54A	SMRD-54A-GW040111	U-233/234	Total	3.33	NA	0.16	NA
RD-54A	SMRD-54A-GW040111	U-235/236	Filtered	0.129	0.016	0.018	0.005
RD-54A	SMRD-54A-GW040111	U-235/236	Suspended	0.0024 U	0.0064	0.0024	0.0049
RD-54A	SMRD-54A-GW040111	U-235/236	Total	0.131	NA	0.019	NA
RD-54A	SMRD-54A-GW040111	U-238	Filtered	2.51	0.02	0.13	0.006
RD-54A	SMRD-54A-GW040111	U-238	Suspended	0.06	0.018	0.012	0.007
RD-54A	SMRD-54A-GW040111	U-238	Total	2.57	NA	0.13	NA
RD-54B	SMRD-54B-GW032411	Ac-227	Filtered	-2.7 U	9	2.7	4.4
RD-54B	SMRD-54B-GW032411	Ac-227	Suspended	-2.9 L U	4.7	1.4	2.3
RD-54B	SMRD-54B-GW032411	Ac-227	Total	-5.6	NA	3.1	NA
RD-54B	SMRD-54B-GW032411	Ac-228	Filtered	2.8	5.3	1.6	2.5
RD-54B	SMRD-54B-GW032411	Ac-228	Suspended	-1 U	3.2	1.5	1.5
RD-54B	SMRD-54B-GW032411	Ac-228	Total	1.8	NA	2.2	NA
RD-54B	SMRD-54B-GW032411	Ag-108	Filtered	-0.001 U R	0.12	0.035	0.057
RD-54B	SMRD-54B-GW032411	Ag-108	Suspended	0.006 U R	0.053	0.016	0.025
RD-54B	SMRD-54B-GW032411	Ag-108	Total	0.005 R	NA	0.038	NA
RD-54B	SMRD-54B-GW032411	Ag-108m	Filtered	-0.01 U R	1.3	0.37	0.61
RD-54B	SMRD-54B-GW032411	Ag-108m	Suspended	0.07 U R	0.57	0.17	0.27
RD-54B	SMRD-54B-GW032411	Ag-108m	Total	0.06 R	NA	0.41	NA
RD-54B	SMRD-54B-GW032411	Ba-133	Filtered	3.3 U R	12	3.6	5.7
RD-54B	SMRD-54B-GW032411	Ba-133	Suspended	-0.02 U R	5.6	1.6	2.7
RD-54B	SMRD-54B-GW032411	Ba-133	Total	3.3 R	NA	3.9	NA
RD-54B	SMRD-54B-GW032411	Ba-137m	Filtered	-0.27 U	1.5	0.44	0.71
RD-54B	SMRD-54B-GW032411	Ba-137m	Suspended	-0.25 U	0.64	0.19	0.31
RD-54B	SMRD-54B-GW032411	Ba-137m	Total	-0.52	NA	0.48	NA
RD-54B	SMRD-54B-GW032411	Bi-212	Filtered	1.3 U	11	3.1	5.1
RD-54B	SMRD-54B-GW032411	Bi-212	Suspended	2.7	5	1.5	2.4
RD-54B	SMRD-54B-GW032411	Bi-212	Total	4.1	NA	3.5	NA
RD-54B	SMRD-54B-GW032411	Bi-214	Filtered	1.3 U	3.2	1	1.5
RD-54B	SMRD-54B-GW032411	Bi-214	Suspended	1.14	1.8	0.77	0.86
RD-54B	SMRD-54B-GW032411	Bi-214	Total	2.5	NA	1.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-54B-GW032411	Cd-113m	Filtered	-1200 U	19000	5500	9000
RD-54B	SMRD-54B-GW032411	Cd-113m	Suspended	-1300 U	7300	2200	3500
RD-54B	SMRD-54B-GW032411	Cd-113m	Total	-2500	NA	5900	NA
RD-54B	SMRD-54B-GW032411	Cf-249	Filtered	2.3 U R	7	2.1	3.3
RD-54B	SMRD-54B-GW032411	Cf-249	Suspended	0.49 U R	3	0.9	1.5
RD-54B	SMRD-54B-GW032411	Cf-249	Total	2.7 R	NA	2.3	NA
RD-54B	SMRD-54B-GW032411	Co-60	Filtered	-0.23 U	1.9	0.54	0.87
RD-54B	SMRD-54B-GW032411	Co-60	Suspended	-0.09 U	0.74	0.21	0.34
RD-54B	SMRD-54B-GW032411	Co-60	Total	-0.32	NA	0.58	NA
RD-54B	SMRD-54B-GW032411	Cs-134	Filtered	0.05 U	2	0.59	0.97
RD-54B	SMRD-54B-GW032411	Cs-134	Suspended	-0.33 U	0.75	0.23	0.36
RD-54B	SMRD-54B-GW032411	Cs-134	Total	-0.28	NA	0.63	NA
RD-54B	SMRD-54B-GW032411	Cs-137	Filtered	-0.29 U	1.6	0.46	0.75
RD-54B	SMRD-54B-GW032411	Cs-137	Suspended	-0.26 U	0.68	0.2	0.32
RD-54B	SMRD-54B-GW032411	Cs-137	Total	-0.55	NA	0.51	NA
RD-54B	SMRD-54B-GW032411	Eu-152	Filtered	-1.4 U	4.5	1.3	2.2
RD-54B	SMRD-54B-GW032411	Eu-152	Suspended	0.24 U	1.7	0.49	0.8
RD-54B	SMRD-54B-GW032411	Eu-152	Total	-1.2	NA	1.4	NA
RD-54B	SMRD-54B-GW032411	Eu-154	Filtered	0.9 U	13	3.9	6.3
RD-54B	SMRD-54B-GW032411	Eu-154	Suspended	0 U	7.5	2.2	3.6
RD-54B	SMRD-54B-GW032411	Eu-154	Total	0.9	NA	4.4	NA
RD-54B	SMRD-54B-GW032411	Eu-155	Filtered	0.2 U	4	1.2	1.9
RD-54B	SMRD-54B-GW032411	Eu-155	Suspended	0.47 U	1.4	0.41	0.67
RD-54B	SMRD-54B-GW032411	Eu-155	Total	0.6	NA	1.2	NA
RD-54B	SMRD-54B-GW032411	gross_alpha	Filtered	0.52	0.53	0.19	0.29
RD-54B	SMRD-54B-GW032411	gross_alpha	Suspended	0.72	0.37	0.17	0.19
RD-54B	SMRD-54B-GW032411	gross_alpha	Total	1.24	NA	0.25	NA
RD-54B	SMRD-54B-GW032411	gross_beta	Filtered	2.6 L	1.9	0.67	1.1
RD-54B	SMRD-54B-GW032411	gross_beta	Suspended	0.26 U	0.81	0.24	0.48
RD-54B	SMRD-54B-GW032411	gross_beta	Total	2.86	NA	0.71	NA
RD-54B	SMRD-54B-GW032411	H-3	Total	17 U	140	43	70
RD-54B	SMRD-54B-GW032411	Ho-166m	Filtered	0 U	2.6	0.74	1.2
RD-54B	SMRD-54B-GW032411	Ho-166m	Suspended	-0.09 U	1.2	0.35	0.56
RD-54B	SMRD-54B-GW032411	Ho-166m	Total	-0.09	NA	0.81	NA
RD-54B	SMRD-54B-GW032411	K-40	Filtered	-14 U	24	17	11
RD-54B	SMRD-54B-GW032411	K-40	Suspended	0.6 U	12	3.6	5.9
RD-54B	SMRD-54B-GW032411	K-40	Total	-14	NA	17	NA
RD-54B	SMRD-54B-GW032411	Na-22	Filtered	0.005 U	1.2	0.31	0.51

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-54B-GW032411	Na-22	Suspended	0.06 U	0.73	0.21	0.34
RD-54B	SMRD-54B-GW032411	Na-22	Total	0.06	NA	0.38	NA
RD-54B	SMRD-54B-GW032411	Nb-94	Filtered	-0.08 U	1.4	0.41	0.67
RD-54B	SMRD-54B-GW032411	Nb-94	Suspended	-0.03 U	0.48	0.14	0.23
RD-54B	SMRD-54B-GW032411	Nb-94	Total	-0.11	NA	0.43	NA
RD-54B	SMRD-54B-GW032411	Np-236	Filtered	-1.2 U	3.5	1	1.7
RD-54B	SMRD-54B-GW032411	Np-236	Suspended	0.18 U	1.1	0.33	0.55
RD-54B	SMRD-54B-GW032411	Np-236	Total	-1	NA	1.1	NA
RD-54B	SMRD-54B-GW032411	Np-239	Filtered	4 U	9.3	2.8	4.5
RD-54B	SMRD-54B-GW032411	Np-239	Suspended	-0.9 U	3.7	1.1	1.8
RD-54B	SMRD-54B-GW032411	Np-239	Total	3.1	NA	3	NA
RD-54B	SMRD-54B-GW032411	Pa-231	Filtered	26 U	60	18	29
RD-54B	SMRD-54B-GW032411	Pa-231	Suspended	-6.7 U	27	8	13
RD-54B	SMRD-54B-GW032411	Pa-231	Total	19	NA	20	NA
RD-54B	SMRD-54B-GW032411	Pb-212	Filtered	-0.03 U	2.7	0.82	1.3
RD-54B	SMRD-54B-GW032411	Pb-212	Suspended	0.61	1.1	0.37	0.52
RD-54B	SMRD-54B-GW032411	Pb-212	Total	0.58	NA	0.9	NA
RD-54B	SMRD-54B-GW032411	Pb-214	Filtered	-0.8 U	3.4	1.6	1.7
RD-54B	SMRD-54B-GW032411	Pb-214	Suspended	1.24 B	1.4	0.55	0.66
RD-54B	SMRD-54B-GW032411	Pb-214	Total	0.4	NA	1.7	NA
RD-54B	SMRD-54B-GW032411	Sb-125	Filtered	1.6 U	15	4.5	7.4
RD-54B	SMRD-54B-GW032411	Sb-125	Suspended	0.5 U	5.8	1.7	2.8
RD-54B	SMRD-54B-GW032411	Sb-125	Total	2	NA	4.8	NA
RD-54B	SMRD-54B-GW032411	Sn-126	Filtered	0.02 U	1.7	0.48	0.79
RD-54B	SMRD-54B-GW032411	Sn-126	Suspended	-0.005 U	0.83	0.24	0.4
RD-54B	SMRD-54B-GW032411	Sn-126	Total	0.01	NA	0.54	NA
RD-54B	SMRD-54B-GW032411	Sr-90	Filtered	0.029 U	0.094	0.028	0.053
RD-54B	SMRD-54B-GW032411	Sr-90	Suspended	-0.003 U	0.062	0.017	0.037
RD-54B	SMRD-54B-GW032411	Sr-90	Total	0.026	NA	0.033	NA
RD-54B	SMRD-54B-GW032411	Te-125m	Filtered	0.4 U	3.5	1	1.7
RD-54B	SMRD-54B-GW032411	Te-125m	Suspended	0.11 U	1.3	0.4	0.65
RD-54B	SMRD-54B-GW032411	Te-125m	Total	0.5	NA	1.1	NA
RD-54B	SMRD-54B-GW032411	Th-231	Filtered	0.0117	0.0064	0.0053	0.0049
RD-54B	SMRD-54B-GW032411	Th-231	Suspended	-0.0018 U	0.015	0.002	0.0047
RD-54B	SMRD-54B-GW032411	Th-231	Total	0.0099	NA	0.0056	NA
RD-54B	SMRD-54B-GW032411	Th-234	Filtered	4.1 U	27	8.9	13
RD-54B	SMRD-54B-GW032411	Th-234	Suspended	1.6 U	8.9	2.8	4.4
RD-54B	SMRD-54B-GW032411	Th-234	Total	5.6	NA	9.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54B	SMRD-54B-GW032411	Tl-208	Filtered	-1.2 U	2	1.4	1
RD-54B	SMRD-54B-GW032411	Tl-208	Suspended	0.17 U	0.71	0.22	0.34
RD-54B	SMRD-54B-GW032411	Tl-208	Total	-1	NA	1.4	NA
RD-54B	SMRD-54B-GW032411	Tm-171	Filtered	20 U	450	140	220
RD-54B	SMRD-54B-GW032411	Tm-171	Suspended	22 U	110	32	52
RD-54B	SMRD-54B-GW032411	Tm-171	Total	50	NA	140	NA
RD-54B	SMRD-54B-GW032411	U-233/234	Filtered	0.128	0.013	0.017	0.004
RD-54B	SMRD-54B-GW032411	U-233/234	Suspended	0.0264	0.0049	0.0082	0.0038
RD-54B	SMRD-54B-GW032411	U-233/234	Total	0.155	NA	0.019	NA
RD-54B	SMRD-54B-GW032411	U-235/236	Filtered	0.0117	0.0064	0.0053	0.0049
RD-54B	SMRD-54B-GW032411	U-235/236	Suspended	-0.0018 U	0.015	0.0018	0.0047
RD-54B	SMRD-54B-GW032411	U-235/236	Total	0.0099	NA	0.0056	NA
RD-54B	SMRD-54B-GW032411	U-238	Filtered	0.061	0.005	0.012	0.004
RD-54B	SMRD-54B-GW032411	U-238	Suspended	0.0108	0.0049	0.0057	0.0038
RD-54B	SMRD-54B-GW032411	U-238	Total	0.071	NA	0.013	NA
RD-54C	SMRD-54C-GW032411	Ac-227	Filtered	-4.2 U	11	3.2	5.2
RD-54C	SMRD-54C-GW032411	Ac-227	Suspended	-0.3 U	3.8	1.1	1.8
RD-54C	SMRD-54C-GW032411	Ac-227	Total	-4.5	NA	3.4	NA
RD-54C	SMRD-54C-GW032411	Ac-228	Filtered	3.8	4.6	1.5	2.1
RD-54C	SMRD-54C-GW032411	Ac-228	Suspended	-0.45 U	2.6	0.99	1.2
RD-54C	SMRD-54C-GW032411	Ac-228	Total	3.4	NA	1.8	NA
RD-54C	SMRD-54C-GW032411	Ag-108	Filtered	0.016 U R	0.11	0.032	0.052
RD-54C	SMRD-54C-GW032411	Ag-108	Suspended	-0.011 U R	0.055	0.016	0.026
RD-54C	SMRD-54C-GW032411	Ag-108	Total	0.006 R	NA	0.036	NA
RD-54C	SMRD-54C-GW032411	Ag-108m	Filtered	0.18 U R	1.2	0.34	0.55
RD-54C	SMRD-54C-GW032411	Ag-108m	Suspended	-0.11 U R	0.59	0.17	0.28
RD-54C	SMRD-54C-GW032411	Ag-108m	Total	0.06 R	NA	0.38	NA
RD-54C	SMRD-54C-GW032411	Ba-133	Filtered	-3.6 U R	15	4.4	7.2
RD-54C	SMRD-54C-GW032411	Ba-133	Suspended	-1.3 U R	6.3	1.9	3
RD-54C	SMRD-54C-GW032411	Ba-133	Total	-4.8 R	NA	4.8	NA
RD-54C	SMRD-54C-GW032411	Ba-137m	Filtered	-0.05 U	1.3	0.36	0.59
RD-54C	SMRD-54C-GW032411	Ba-137m	Suspended	0.32	0.56	0.17	0.27
RD-54C	SMRD-54C-GW032411	Ba-137m	Total	0.27	NA	0.4	NA
RD-54C	SMRD-54C-GW032411	Bi-212	Filtered	0.02 U	11	3.1	5.1
RD-54C	SMRD-54C-GW032411	Bi-212	Suspended	2.2 U	5.2	1.6	2.4
RD-54C	SMRD-54C-GW032411	Bi-212	Total	2.2	NA	3.5	NA
RD-54C	SMRD-54C-GW032411	Bi-214	Filtered	5.2	3.8	1.2	1.8
RD-54C	SMRD-54C-GW032411	Bi-214	Suspended	0.97	1.7	0.64	0.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-54C-GW032411	Bi-214	Total	6.2	NA	1.4	NA
RD-54C	SMRD-54C-GW032411	Cd-113m	Filtered	200 U	17000	5100	8300
RD-54C	SMRD-54C-GW032411	Cd-113m	Suspended	-70 U	7100	2100	3400
RD-54C	SMRD-54C-GW032411	Cd-113m	Total	200	NA	5500	NA
RD-54C	SMRD-54C-GW032411	Cf-249	Filtered	2.3 U R	7	2.1	3.4
RD-54C	SMRD-54C-GW032411	Cf-249	Suspended	0.25 U R	2.9	0.86	1.4
RD-54C	SMRD-54C-GW032411	Cf-249	Total	2.6 R	NA	2.3	NA
RD-54C	SMRD-54C-GW032411	Co-60	Filtered	0.06 U	1.7	0.47	0.77
RD-54C	SMRD-54C-GW032411	Co-60	Suspended	-0.008 U	0.77	0.22	0.36
RD-54C	SMRD-54C-GW032411	Co-60	Total	0.06	NA	0.52	NA
RD-54C	SMRD-54C-GW032411	Cs-134	Filtered	-0.34 U	1.8	0.52	0.85
RD-54C	SMRD-54C-GW032411	Cs-134	Suspended	0.14 U	0.59	0.17	0.28
RD-54C	SMRD-54C-GW032411	Cs-134	Total	-0.2	NA	0.55	NA
RD-54C	SMRD-54C-GW032411	Cs-137	Filtered	-0.05 U	1.3	0.38	0.63
RD-54C	SMRD-54C-GW032411	Cs-137	Suspended	0.33	0.6	0.18	0.28
RD-54C	SMRD-54C-GW032411	Cs-137	Total	0.29	NA	0.42	NA
RD-54C	SMRD-54C-GW032411	Eu-152	Filtered	-0.3 U	4.4	1.3	2.1
RD-54C	SMRD-54C-GW032411	Eu-152	Suspended	0.02 U	1.8	0.53	0.88
RD-54C	SMRD-54C-GW032411	Eu-152	Total	-0.3	NA	1.4	NA
RD-54C	SMRD-54C-GW032411	Eu-154	Filtered	-4.9 U	15	4.4	6.9
RD-54C	SMRD-54C-GW032411	Eu-154	Suspended	0.5 U	5.6	1.6	2.6
RD-54C	SMRD-54C-GW032411	Eu-154	Total	-4.4	NA	4.7	NA
RD-54C	SMRD-54C-GW032411	Eu-155	Filtered	1.3 U	3.9	1.2	1.9
RD-54C	SMRD-54C-GW032411	Eu-155	Suspended	0.22 U	1.1	0.32	0.51
RD-54C	SMRD-54C-GW032411	Eu-155	Total	1.5	NA	1.2	NA
RD-54C	SMRD-54C-GW032411	gross_alpha	Filtered	0.16 U	0.64	0.18	0.35
RD-54C	SMRD-54C-GW032411	gross_alpha	Suspended	1.17 K	0.53	0.25	0.28
RD-54C	SMRD-54C-GW032411	gross_alpha	Total	1.33	NA	0.31	NA
RD-54C	SMRD-54C-GW032411	gross_beta	Filtered	2.54	1.1	0.44	0.65
RD-54C	SMRD-54C-GW032411	gross_beta	Suspended	0.49 U	0.93	0.28	0.56
RD-54C	SMRD-54C-GW032411	gross_beta	Total	3.03	NA	0.53	NA
RD-54C	SMRD-54C-GW032411	H-3	Total	24 U	150	43	70
RD-54C	SMRD-54C-GW032411	Ho-166m	Filtered	0 U	2.6	0.74	1.2
RD-54C	SMRD-54C-GW032411	Ho-166m	Suspended	-0.42 U	1.2	0.35	0.56
RD-54C	SMRD-54C-GW032411	Ho-166m	Total	-0.42	NA	0.82	NA
RD-54C	SMRD-54C-GW032411	K-40	Filtered	7 U	22	6.9	10
RD-54C	SMRD-54C-GW032411	K-40	Suspended	3.9 U	10	3.4	4.8
RD-54C	SMRD-54C-GW032411	K-40	Total	11	NA	7.6	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-54C-GW032411	Na-22	Filtered	0.06 U	1.7	0.48	0.79
RD-54C	SMRD-54C-GW032411	Na-22	Suspended	-0.24 U	0.88	0.26	0.41
RD-54C	SMRD-54C-GW032411	Na-22	Total	-0.18	NA	0.55	NA
RD-54C	SMRD-54C-GW032411	Nb-94	Filtered	-0.31 U	1.3	0.38	0.61
RD-54C	SMRD-54C-GW032411	Nb-94	Suspended	0.22 U	0.54	0.16	0.26
RD-54C	SMRD-54C-GW032411	Nb-94	Total	-0.09	NA	0.41	NA
RD-54C	SMRD-54C-GW032411	Np-236	Filtered	0.09 U	2.9	0.87	1.4
RD-54C	SMRD-54C-GW032411	Np-236	Suspended	0.09 U	1.2	0.36	0.59
RD-54C	SMRD-54C-GW032411	Np-236	Total	0.18	NA	0.94	NA
RD-54C	SMRD-54C-GW032411	Np-239	Filtered	0.8 U	9	2.7	4.4
RD-54C	SMRD-54C-GW032411	Np-239	Suspended	-1.2 U	4.2	1.2	2
RD-54C	SMRD-54C-GW032411	Np-239	Total	-0.3	NA	2.9	NA
RD-54C	SMRD-54C-GW032411	Pa-231	Filtered	0.7 U	49	14	23
RD-54C	SMRD-54C-GW032411	Pa-231	Suspended	-4.2 U	27	8	13
RD-54C	SMRD-54C-GW032411	Pa-231	Total	-3	NA	16	NA
RD-54C	SMRD-54C-GW032411	Pb-212	Filtered	0.71 U	2.8	0.95	1.4
RD-54C	SMRD-54C-GW032411	Pb-212	Suspended	0.18 U	1.2	0.4	0.57
RD-54C	SMRD-54C-GW032411	Pb-212	Total	0.9	NA	1	NA
RD-54C	SMRD-54C-GW032411	Pb-214	Filtered	-0.7 U	3.5	1.5	1.7
RD-54C	SMRD-54C-GW032411	Pb-214	Suspended	-0.54 U	1.6	0.65	0.76
RD-54C	SMRD-54C-GW032411	Pb-214	Total	-1.3	NA	1.7	NA
RD-54C	SMRD-54C-GW032411	Sb-125	Filtered	6 U	13	3.8	6.1
RD-54C	SMRD-54C-GW032411	Sb-125	Suspended	0.4 U	5.5	1.6	2.7
RD-54C	SMRD-54C-GW032411	Sb-125	Total	6.4	NA	4.2	NA
RD-54C	SMRD-54C-GW032411	Sn-126	Filtered	0.11 U	1.5	0.44	0.73
RD-54C	SMRD-54C-GW032411	Sn-126	Suspended	0.29 U	0.7	0.21	0.33
RD-54C	SMRD-54C-GW032411	Sn-126	Total	0.4	NA	0.49	NA
RD-54C	SMRD-54C-GW032411	Sr-90	Filtered	0.099	0.065	0.022	0.037
RD-54C	SMRD-54C-GW032411	Sr-90	Suspended	0.015 U	0.068	0.02	0.038
RD-54C	SMRD-54C-GW032411	Sr-90	Total	0.115	NA	0.03	NA
RD-54C	SMRD-54C-GW032411	Te-125m	Filtered	1.38 U	2.9	0.89	1.4
RD-54C	SMRD-54C-GW032411	Te-125m	Suspended	0.09 U	1.3	0.38	0.62
RD-54C	SMRD-54C-GW032411	Te-125m	Total	1.48	NA	0.96	NA
RD-54C	SMRD-54C-GW032411	Th-231	Filtered	0.0049 U	0.0066	0.0034	0.005
RD-54C	SMRD-54C-GW032411	Th-231	Suspended	0 U	0.0062	0.0023	0.0054
RD-54C	SMRD-54C-GW032411	Th-231	Total	0.0049	NA	0.0041	NA
RD-54C	SMRD-54C-GW032411	Th-234	Filtered	1.8 U	27	9.5	13
RD-54C	SMRD-54C-GW032411	Th-234	Suspended	-1 U	7.5	2.7	3.7

Table D.2
Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-54C	SMRD-54C-GW032411	Th-234	Total	0.8	NA	9.9	NA
RD-54C	SMRD-54C-GW032411	Tl-208	Filtered	0.91 U	1.9	0.78	0.93
RD-54C	SMRD-54C-GW032411	Tl-208	Suspended	0.57	0.66	0.24	0.31
RD-54C	SMRD-54C-GW032411	Tl-208	Total	1.48	NA	0.82	NA
RD-54C	SMRD-54C-GW032411	Tm-171	Filtered	100 U	440	130	210
RD-54C	SMRD-54C-GW032411	Tm-171	Suspended	36 U	120	36	58
RD-54C	SMRD-54C-GW032411	Tm-171	Total	140	NA	140	NA
RD-54C	SMRD-54C-GW032411	U-233/234	Filtered	0.0101	0.013	0.0067	0.0041
RD-54C	SMRD-54C-GW032411	U-233/234	Suspended	0.0184	0.012	0.0076	0.0038
RD-54C	SMRD-54C-GW032411	U-233/234	Total	0.029	NA	0.01	NA
RD-54C	SMRD-54C-GW032411	U-235/236	Filtered	0.0049 U	0.0066	0.0034	0.005
RD-54C	SMRD-54C-GW032411	U-235/236	Suspended	0 U	0.0062	0.0018	0.0048
RD-54C	SMRD-54C-GW032411	U-235/236	Total	0.0049	NA	0.0039	NA
RD-54C	SMRD-54C-GW032411	U-238	Filtered	0.0006 U	0.0053	0.0039	0.004
RD-54C	SMRD-54C-GW032411	U-238	Suspended	0.0076	0.005	0.0052	0.0038
RD-54C	SMRD-54C-GW032411	U-238	Total	0.0081	NA	0.0065	NA
RD-56A	SMRD-56A-GW042011	Ac-227	Filtered	-6.5 L U	9.8	3	4.8
RD-56A	SMRD-56A-GW042011	Ac-227	Suspended	-0.792 U	3.3	0.998	1.6
RD-56A	SMRD-56A-GW042011	Ac-227	Total	-7.3 L	NA	3.2	NA
RD-56A	SMRD-56A-GW042011	Ac-228	Filtered	1.2 U	4.2	1.3	2
RD-56A	SMRD-56A-GW042011	Ac-228	Suspended	1.6	1.9	0.59	0.87
RD-56A	SMRD-56A-GW042011	Ac-228	Total	2.8	NA	1.4	NA
RD-56A	SMRD-56A-GW042011	Ag-108	Filtered	-0.003 U R	0.092	0.027	0.044
RD-56A	SMRD-56A-GW042011	Ag-108	Suspended	0.007 U R	0.035	0.01	0.017
RD-56A	SMRD-56A-GW042011	Ag-108	Total	0.004 R	NA	0.029	NA
RD-56A	SMRD-56A-GW042011	Ag-108m	Filtered	-0.03 U R	0.99	0.29	0.47
RD-56A	SMRD-56A-GW042011	Ag-108m	Suspended	0.07 U R	0.38	0.11	0.18
RD-56A	SMRD-56A-GW042011	Ag-108m	Total	0.04 R	NA	0.31	NA
RD-56A	SMRD-56A-GW042011	Ba-133	Filtered	0.8 U R	11	3.3	5.3
RD-56A	SMRD-56A-GW042011	Ba-133	Suspended	1.7 R	3.5	1	1.6
RD-56A	SMRD-56A-GW042011	Ba-133	Total	2.4 R	NA	3.4	NA
RD-56A	SMRD-56A-GW042011	Ba-137m	Filtered	-0.02 U	1.2	0.34	0.55
RD-56A	SMRD-56A-GW042011	Ba-137m	Suspended	-0.21 U	0.6	0.18	0.29
RD-56A	SMRD-56A-GW042011	Ba-137m	Total	-0.23	NA	0.38	NA
RD-56A	SMRD-56A-GW042011	Bi-212	Filtered	2.8 U	9.4	2.8	4.4
RD-56A	SMRD-56A-GW042011	Bi-212	Suspended	1.7 U	3.9	1.2	1.8
RD-56A	SMRD-56A-GW042011	Bi-212	Total	4.5	NA	3	NA
RD-56A	SMRD-56A-GW042011	Bi-214	Filtered	0.86 U	2.7	0.88	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW042011	Bi-214	Suspended	1.49	1.2	0.47	0.57
RD-56A	SMRD-56A-GW042011	Bi-214	Total	2.35	NA	0.999	NA
RD-56A	SMRD-56A-GW042011	Cd-113m	Filtered	-500 U	14000	4200	6900
RD-56A	SMRD-56A-GW042011	Cd-113m	Suspended	-600 U	5700	1700	2800
RD-56A	SMRD-56A-GW042011	Cd-113m	Total	-1100	NA	4500	NA
RD-56A	SMRD-56A-GW042011	Cf-249	Filtered	1.3 U R	5.7	1.7	2.8
RD-56A	SMRD-56A-GW042011	Cf-249	Suspended	0.9 U R	2.3	0.69	1.1
RD-56A	SMRD-56A-GW042011	Cf-249	Total	2.2 R	NA	1.8	NA
RD-56A	SMRD-56A-GW042011	Co-60	Filtered	-0.02 U	1.3	0.37	0.6
RD-56A	SMRD-56A-GW042011	Co-60	Suspended	-0.09 U	0.67	0.19	0.31
RD-56A	SMRD-56A-GW042011	Co-60	Total	-0.11	NA	0.41	NA
RD-56A	SMRD-56A-GW042011	Cs-134	Filtered	-0.006 U	1.4	0.41	0.68
RD-56A	SMRD-56A-GW042011	Cs-134	Suspended	0.11 U	0.52	0.15	0.25
RD-56A	SMRD-56A-GW042011	Cs-134	Total	0.1	NA	0.44	NA
RD-56A	SMRD-56A-GW042011	Cs-137	Filtered	-0.02 U	1.2	0.35	0.58
RD-56A	SMRD-56A-GW042011	Cs-137	Suspended	-0.22 U	0.64	0.19	0.3
RD-56A	SMRD-56A-GW042011	Cs-137	Total	-0.24	NA	0.4	NA
RD-56A	SMRD-56A-GW042011	Eu-152	Filtered	1.07 U	3	0.89	1.4
RD-56A	SMRD-56A-GW042011	Eu-152	Suspended	0.17 U	1.3	0.39	0.64
RD-56A	SMRD-56A-GW042011	Eu-152	Total	1.24	NA	0.97	NA
RD-56A	SMRD-56A-GW042011	Eu-154	Filtered	1.2 U	9.2	2.6	4.3
RD-56A	SMRD-56A-GW042011	Eu-154	Suspended	-0.1 U	4.1	1.2	1.9
RD-56A	SMRD-56A-GW042011	Eu-154	Total	1.1	NA	2.9	NA
RD-56A	SMRD-56A-GW042011	Eu-155	Filtered	-0.33 U	3.3	0.99	1.6
RD-56A	SMRD-56A-GW042011	Eu-155	Suspended	0.11 U	0.72	0.21	0.35
RD-56A	SMRD-56A-GW042011	Eu-155	Total	-0.2	NA	1	NA
RD-56A	SMRD-56A-GW042011	gross_alpha	Filtered	4.54	0.39	0.44	0.19
RD-56A	SMRD-56A-GW042011	gross_alpha	Suspended	4.61	0.74	0.51	0.41
RD-56A	SMRD-56A-GW042011	gross_alpha	Total	9.15	NA	0.67	NA
RD-56A	SMRD-56A-GW042011	gross_beta	Filtered	6.2	4	1.5	2.4
RD-56A	SMRD-56A-GW042011	gross_beta	Suspended	20.7	0.8	1.1	0.5
RD-56A	SMRD-56A-GW042011	gross_beta	Total	26.9	NA	1.8	NA
RD-56A	SMRD-56A-GW042011	H-3	Total	-71 U	160	45	77
RD-56A	SMRD-56A-GW042011	Ho-166m	Filtered	0.01 U	1.9	0.53	0.87
RD-56A	SMRD-56A-GW042011	Ho-166m	Suspended	-0.23 U	0.96	0.28	0.46
RD-56A	SMRD-56A-GW042011	Ho-166m	Total	-0.22	NA	0.6	NA
RD-56A	SMRD-56A-GW042011	K-40	Filtered	17.9	16	5.4	7.2
RD-56A	SMRD-56A-GW042011	K-40	Suspended	-1.6 U	7.3	1.9	3.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW042011	K-40	Total	16.3	NA	5.7	NA
RD-56A	SMRD-56A-GW042011	Na-22	Filtered	0.07 U	1.4	0.39	0.64
RD-56A	SMRD-56A-GW042011	Na-22	Suspended	0.09 U	0.55	0.16	0.25
RD-56A	SMRD-56A-GW042011	Na-22	Total	0.16	NA	0.42	NA
RD-56A	SMRD-56A-GW042011	Nb-94	Filtered	-0.17 U	1.2	0.34	0.56
RD-56A	SMRD-56A-GW042011	Nb-94	Suspended	-0.04 U	0.61	0.18	0.29
RD-56A	SMRD-56A-GW042011	Nb-94	Total	-0.21	NA	0.39	NA
RD-56A	SMRD-56A-GW042011	Np-236	Filtered	0 U	2.9	0.86	1.4
RD-56A	SMRD-56A-GW042011	Np-236	Suspended	-0.02 U	0.89	0.26	0.43
RD-56A	SMRD-56A-GW042011	Np-236	Total	-0.02	NA	0.9	NA
RD-56A	SMRD-56A-GW042011	Np-239	Filtered	1.1 U	7.6	2.3	3.7
RD-56A	SMRD-56A-GW042011	Np-239	Suspended	0.46 U	2.6	0.79	1.3
RD-56A	SMRD-56A-GW042011	Np-239	Total	1.6	NA	2.4	NA
RD-56A	SMRD-56A-GW042011	Pa-231	Filtered	-0.4 U	56	16	27
RD-56A	SMRD-56A-GW042011	Pa-231	Suspended	-0.4 U	18	5.3	8.7
RD-56A	SMRD-56A-GW042011	Pa-231	Total	-0.8	NA	17	NA
RD-56A	SMRD-56A-GW042011	Pb-212	Filtered	0.2 U	2.3	0.7	1.1
RD-56A	SMRD-56A-GW042011	Pb-212	Suspended	0.79	0.78	0.31	0.38
RD-56A	SMRD-56A-GW042011	Pb-212	Total	0.99	NA	0.76	NA
RD-56A	SMRD-56A-GW042011	Pb-214	Filtered	0.95 U	2.8	0.78	1.3
RD-56A	SMRD-56A-GW042011	Pb-214	Suspended	0.85	1	0.4	0.49
RD-56A	SMRD-56A-GW042011	Pb-214	Total	1.8	NA	0.88	NA
RD-56A	SMRD-56A-GW042011	Sb-125	Filtered	-1.4 U	13	3.8	6.2
RD-56A	SMRD-56A-GW042011	Sb-125	Suspended	-0.8 U	4.7	1.4	2.3
RD-56A	SMRD-56A-GW042011	Sb-125	Total	-2.2	NA	4	NA
RD-56A	SMRD-56A-GW042011	Sn-126	Filtered	-0.39 U	1.5	0.44	0.71
RD-56A	SMRD-56A-GW042011	Sn-126	Suspended	0.16 U	0.63	0.19	0.3
RD-56A	SMRD-56A-GW042011	Sn-126	Total	-0.24	NA	0.48	NA
RD-56A	SMRD-56A-GW042011	Sr-90	Filtered	0.06 U	0.12	0.035	0.065
RD-56A	SMRD-56A-GW042011	Sr-90	Suspended	0.024 U	0.062	0.019	0.033
RD-56A	SMRD-56A-GW042011	Sr-90	Total	0.084	NA	0.04	NA
RD-56A	SMRD-56A-GW042011	Te-125m	Filtered	-0.33 U	3	0.88	1.4
RD-56A	SMRD-56A-GW042011	Te-125m	Suspended	-0.19 U	1.1	0.32	0.53
RD-56A	SMRD-56A-GW042011	Te-125m	Total	-0.52	NA	0.93	NA
RD-56A	SMRD-56A-GW042011	Th-231	Filtered	0.0309	0.0076	0.0094	0.0059
RD-56A	SMRD-56A-GW042011	Th-231	Suspended	0.0015 U	0.025	0.0057	0.0093
RD-56A	SMRD-56A-GW042011	Th-231	Total	0.032	NA	0.011	NA
RD-56A	SMRD-56A-GW042011	Th-234	Filtered	3.8 U	19	5.9	9.4

Table D.2
Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56A	SMRD-56A-GW042011	Th-234	Suspended	-1.1 U	5.6	1.7	2.7
RD-56A	SMRD-56A-GW042011	Th-234	Total	2.7	NA	6.1	NA
RD-56A	SMRD-56A-GW042011	Tl-208	Filtered	-0.67 U	1.6	0.93	0.77
RD-56A	SMRD-56A-GW042011	Tl-208	Suspended	0.29	0.52	0.19	0.25
RD-56A	SMRD-56A-GW042011	Tl-208	Total	-0.38	NA	0.95	NA
RD-56A	SMRD-56A-GW042011	Tm-171	Filtered	90 U	360	110	170
RD-56A	SMRD-56A-GW042011	Tm-171	Suspended	13 U	90	27	43
RD-56A	SMRD-56A-GW042011	Tm-171	Total	100	NA	110	NA
RD-56A	SMRD-56A-GW042011	U-233/234	Filtered	0.736	0.015	0.051	0.005
RD-56A	SMRD-56A-GW042011	U-233/234	Suspended	0.083	0.014	0.015	0.004
RD-56A	SMRD-56A-GW042011	U-233/234	Total	0.82	NA	0.054	NA
RD-56A	SMRD-56A-GW042011	U-235/236	Filtered	0.0309	0.0076	0.0094	0.0059
RD-56A	SMRD-56A-GW042011	U-235/236	Suspended	0.0015 U	0.025	0.0057	0.0093
RD-56A	SMRD-56A-GW042011	U-235/236	Total	0.032	NA	0.011	NA
RD-56A	SMRD-56A-GW042011	U-238	Filtered	0.64	0.006	0.047	0.005
RD-56A	SMRD-56A-GW042011	U-238	Suspended	0.094	0.014	0.015	0.004
RD-56A	SMRD-56A-GW042011	U-238	Total	0.734	NA	0.049	NA
RD-56B	SMRD-56B-GW042011	Ac-227	Filtered	1.3 U	9.3	2.8	4.5
RD-56B	SMRD-56B-GW042011	Ac-227	Suspended	-1.07 U	3.3	0.996	1.6
RD-56B	SMRD-56B-GW042011	Ac-227	Total	0.2	NA	2.9	NA
RD-56B	SMRD-56B-GW042011	Ac-228	Filtered	3.3	3.8	1.2	1.8
RD-56B	SMRD-56B-GW042011	Ac-228	Suspended	0 U	1.3	0.37	0.6
RD-56B	SMRD-56B-GW042011	Ac-228	Total	3.3	NA	1.3	NA
RD-56B	SMRD-56B-GW042011	Ag-108	Filtered	-0.007 U R	0.089	0.026	0.043
RD-56B	SMRD-56B-GW042011	Ag-108	Suspended	0.013 U R	0.041	0.012	0.02
RD-56B	SMRD-56B-GW042011	Ag-108	Total	0.006 R	NA	0.029	NA
RD-56B	SMRD-56B-GW042011	Ag-108m	Filtered	-0.08 U R	0.96	0.28	0.46
RD-56B	SMRD-56B-GW042011	Ag-108m	Suspended	0.14 U R	0.44	0.13	0.21
RD-56B	SMRD-56B-GW042011	Ag-108m	Total	0.06 R	NA	0.31	NA
RD-56B	SMRD-56B-GW042011	Am-241	Filtered	0.0039 U	0.018	0.0048	0.0065
RD-56B	SMRD-56B-GW042011	Am-241	Suspended	-0.0011 U	0.015	0.003	0.0054
RD-56B	SMRD-56B-GW042011	Am-241	Total	0.0028	NA	0.0057	NA
RD-56B	SMRD-56B-GW042011	Ba-133	Filtered	5.1 R	10	3.2	5
RD-56B	SMRD-56B-GW042011	Ba-133	Suspended	1 U R	4.3	1.3	2.1
RD-56B	SMRD-56B-GW042011	Ba-133	Total	6 R	NA	3.4	NA
RD-56B	SMRD-56B-GW042011	Ba-137m	Filtered	-0.22 U	1.1	0.31	0.5
RD-56B	SMRD-56B-GW042011	Ba-137m	Suspended	-0.04 U	0.51	0.15	0.24
RD-56B	SMRD-56B-GW042011	Ba-137m	Total	-0.25	NA	0.35	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW042011	Bi-212	Filtered	-0.8 U	9.1	3.5	4.3
RD-56B	SMRD-56B-GW042011	Bi-212	Suspended	0.3 U	4.4	1.3	2.1
RD-56B	SMRD-56B-GW042011	Bi-212	Total	-0.5	NA	3.7	NA
RD-56B	SMRD-56B-GW042011	Bi-214	Filtered	1.8	2.4	0.76	1.2
RD-56B	SMRD-56B-GW042011	Bi-214	Suspended	1.16	1.3	0.55	0.63
RD-56B	SMRD-56B-GW042011	Bi-214	Total	2.96	NA	0.94	NA
RD-56B	SMRD-56B-GW042011	C-14	Total	0.23 U R	2.1	0.64	1
RD-56B	SMRD-56B-GW042011	Cd-113m	Filtered	-200 U	12000	3500	5800
RD-56B	SMRD-56B-GW042011	Cd-113m	Suspended	100 U	4100	1200	2000
RD-56B	SMRD-56B-GW042011	Cd-113m	Total	-100	NA	3700	NA
RD-56B	SMRD-56B-GW042011	Cf-249	Filtered	-0.2 U R	5.2	1.5	2.5
RD-56B	SMRD-56B-GW042011	Cf-249	Suspended	-0.97 U R	2.4	0.73	1.2
RD-56B	SMRD-56B-GW042011	Cf-249	Total	-1.1 R	NA	1.7	NA
RD-56B	SMRD-56B-GW042011	Cm-243/244	Filtered	0.0116	0.018	0.0061	0.0064
RD-56B	SMRD-56B-GW042011	Cm-243/244	Suspended	-0.0029 U	0.015	0.0023	0.0053
RD-56B	SMRD-56B-GW042011	Cm-243/244	Total	0.0087	NA	0.0065	NA
RD-56B	SMRD-56B-GW042011	Cm-245/246	Filtered	0.01 J	0.0054	0.0045	0.0047
RD-56B	SMRD-56B-GW042011	Cm-245/246	Suspended	0.0093	0.019	0.0062	0.0073
RD-56B	SMRD-56B-GW042011	Cm-245/246	Total	0.0194 J	NA	0.0077	NA
RD-56B	SMRD-56B-GW042011	Co-60	Filtered	0.16 U	1.1	0.33	0.52
RD-56B	SMRD-56B-GW042011	Co-60	Suspended	-0.13 U	0.66	0.19	0.31
RD-56B	SMRD-56B-GW042011	Co-60	Total	0.03	NA	0.38	NA
RD-56B	SMRD-56B-GW042011	Cs-134	Filtered	-0.2 U	1.2	0.34	0.56
RD-56B	SMRD-56B-GW042011	Cs-134	Suspended	-0.18 U	0.69	0.21	0.33
RD-56B	SMRD-56B-GW042011	Cs-134	Total	-0.38	NA	0.4	NA
RD-56B	SMRD-56B-GW042011	Cs-137	Filtered	-0.23 U	1.1	0.33	0.53
RD-56B	SMRD-56B-GW042011	Cs-137	Suspended	-0.04 U	0.54	0.16	0.25
RD-56B	SMRD-56B-GW042011	Cs-137	Total	-0.27	NA	0.37	NA
RD-56B	SMRD-56B-GW042011	Eu-152	Filtered	0.71 U	2.7	0.81	1.3
RD-56B	SMRD-56B-GW042011	Eu-152	Suspended	-0.01 U	1.4	0.42	0.69
RD-56B	SMRD-56B-GW042011	Eu-152	Total	0.7	NA	0.92	NA
RD-56B	SMRD-56B-GW042011	Eu-154	Filtered	3.9 U	8.7	2.6	4.1
RD-56B	SMRD-56B-GW042011	Eu-154	Suspended	1.7 U	4.3	1.3	2
RD-56B	SMRD-56B-GW042011	Eu-154	Total	5.6	NA	2.9	NA
RD-56B	SMRD-56B-GW042011	Eu-155	Filtered	0.14 U	2.6	0.78	1.3
RD-56B	SMRD-56B-GW042011	Eu-155	Suspended	-0.11 U	1	0.31	0.5
RD-56B	SMRD-56B-GW042011	Eu-155	Total	0.04	NA	0.83	NA
RD-56B	SMRD-56B-GW042011	gross_alpha	Filtered	2.38 J	0.57	0.34	0.31

Table D.2
Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW042011	gross_alpha	Suspended	0.21 U	0.56	0.17	0.29
RD-56B	SMRD-56B-GW042011	gross_alpha	Total	2.59 J	NA	0.38	NA
RD-56B	SMRD-56B-GW042011	gross_beta	Filtered	4.08 R	1.1	0.51	0.64
RD-56B	SMRD-56B-GW042011	gross_beta	Suspended	0.24 U	0.84	0.25	0.5
RD-56B	SMRD-56B-GW042011	gross_beta	Total	4.32 R	NA	0.57	NA
RD-56B	SMRD-56B-GW042011	H-3	Total	-57 U	130	38	65
RD-56B	SMRD-56B-GW042011	Ho-166m	Filtered	0.1 U	1.6	0.47	0.77
RD-56B	SMRD-56B-GW042011	Ho-166m	Suspended	0.03 U	0.85	0.24	0.4
RD-56B	SMRD-56B-GW042011	Ho-166m	Total	0.13	NA	0.53	NA
RD-56B	SMRD-56B-GW042011	I-129	Filtered	0.02 U	0.63	0.19	0.31
RD-56B	SMRD-56B-GW042011	I-129	Suspended	0.06 U	0.49	0.15	0.24
RD-56B	SMRD-56B-GW042011	I-129	Total	0.08	NA	0.24	NA
RD-56B	SMRD-56B-GW042011	K-40	Filtered	14	15	4.9	7
RD-56B	SMRD-56B-GW042011	K-40	Suspended	-7.2 U	8.9	7	4.2
RD-56B	SMRD-56B-GW042011	K-40	Total	6.8	NA	8.5	NA
RD-56B	SMRD-56B-GW042011	Na-22	Filtered	-0.23 U	1.3	0.38	0.6
RD-56B	SMRD-56B-GW042011	Na-22	Suspended	0.001 U	0.61	0.17	0.28
RD-56B	SMRD-56B-GW042011	Na-22	Total	-0.23	NA	0.41	NA
RD-56B	SMRD-56B-GW042011	Nb-94	Filtered	0.09 U	1.1	0.31	0.51
RD-56B	SMRD-56B-GW042011	Nb-94	Suspended	0.11 U	0.58	0.17	0.28
RD-56B	SMRD-56B-GW042011	Nb-94	Total	0.2	NA	0.36	NA
RD-56B	SMRD-56B-GW042011	Np-236	Filtered	0.83 U	2.6	0.78	1.3
RD-56B	SMRD-56B-GW042011	Np-236	Suspended	0.2 U	0.84	0.25	0.41
RD-56B	SMRD-56B-GW042011	Np-236	Total	1.03	NA	0.82	NA
RD-56B	SMRD-56B-GW042011	Np-237	Filtered	-0.0035 U	0.03	0.005	0.011
RD-56B	SMRD-56B-GW042011	Np-237	Suspended	0 U	0.01	0.0027	0.0053
RD-56B	SMRD-56B-GW042011	Np-237	Total	-0.0035	NA	0.0057	NA
RD-56B	SMRD-56B-GW042011	Np-239	Filtered	-0.1 U	7.3	2.1	3.5
RD-56B	SMRD-56B-GW042011	Np-239	Suspended	0.35 U	2.8	0.84	1.4
RD-56B	SMRD-56B-GW042011	Np-239	Total	0.2	NA	2.3	NA
RD-56B	SMRD-56B-GW042011	Pa-231	Filtered	9 U	48	14	23
RD-56B	SMRD-56B-GW042011	Pa-231	Suspended	-0.6 U	19	5.6	9.2
RD-56B	SMRD-56B-GW042011	Pa-231	Total	9	NA	15	NA
RD-56B	SMRD-56B-GW042011	Pb-212	Filtered	1.64	2.4	0.85	1.2
RD-56B	SMRD-56B-GW042011	Pb-212	Suspended	0.09 U	0.88	0.25	0.43
RD-56B	SMRD-56B-GW042011	Pb-212	Total	1.73	NA	0.88	NA
RD-56B	SMRD-56B-GW042011	Pb-214	Filtered	0.77 U	2.7	0.76	1.3
RD-56B	SMRD-56B-GW042011	Pb-214	Suspended	-0.1 U	1.1	0.36	0.54

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Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW042011	Pb-214	Total	0.67	NA	0.84	NA
RD-56B	SMRD-56B-GW042011	Pu-238	Filtered	0.002 U	0.023	0.0059	0.0092
RD-56B	SMRD-56B-GW042011	Pu-238	Suspended	0.0138	0.018	0.0065	0.0071
RD-56B	SMRD-56B-GW042011	Pu-238	Total	0.0158	NA	0.0088	NA
RD-56B	SMRD-56B-GW042011	Pu-239/240	Filtered	0.002 U	0.0054	0.002	0.0046
RD-56B	SMRD-56B-GW042011	Pu-239/240	Suspended	-0.0015 U	0.011	0.0017	0.0036
RD-56B	SMRD-56B-GW042011	Pu-239/240	Total	0.0005	NA	0.0026	NA
RD-56B	SMRD-56B-GW042011	Pu-242	Filtered	-0.0012 U	0.016	0.0032	0.0058
RD-56B	SMRD-56B-GW042011	Pu-242	Suspended	0.0031 U	0.014	0.0039	0.0051
RD-56B	SMRD-56B-GW042011	Pu-242	Total	0.0019	NA	0.0051	NA
RD-56B	SMRD-56B-GW042011	Ra-226	Filtered	0.94	0.12	0.1	0.06
RD-56B	SMRD-56B-GW042011	Ra-226	Suspended	0.089 U	0.21	0.063	0.11
RD-56B	SMRD-56B-GW042011	Ra-226	Total	1.03	NA	0.12	NA
RD-56B	SMRD-56B-GW042011	Sb-125	Filtered	0.9 U	12	3.4	5.6
RD-56B	SMRD-56B-GW042011	Sb-125	Suspended	0 U	4.4	1.3	2.1
RD-56B	SMRD-56B-GW042011	Sb-125	Total	0.9	NA	3.7	NA
RD-56B	SMRD-56B-GW042011	Sn-126	Filtered	0.28 U	1.2	0.36	0.58
RD-56B	SMRD-56B-GW042011	Sn-126	Suspended	-0.05 U	0.66	0.19	0.31
RD-56B	SMRD-56B-GW042011	Sn-126	Total	0.23	NA	0.41	NA
RD-56B	SMRD-56B-GW042011	Sr-90	Filtered	-0.062 U	0.12	0.033	0.069
RD-56B	SMRD-56B-GW042011	Sr-90	Suspended	0.023 U	0.078	0.023	0.044
RD-56B	SMRD-56B-GW042011	Sr-90	Total	-0.04	NA	0.04	NA
RD-56B	SMRD-56B-GW042011	Tc-99	Filtered	-0.15 U	1.3	0.39	0.64
RD-56B	SMRD-56B-GW042011	Tc-99	Suspended	-0.09 U	1.6	0.47	0.77
RD-56B	SMRD-56B-GW042011	Tc-99	Total	-0.24	NA	0.61	NA
RD-56B	SMRD-56B-GW042011	Te-125m	Filtered	0.22 U	2.7	0.79	1.3
RD-56B	SMRD-56B-GW042011	Te-125m	Suspended	0 U	1	0.3	0.49
RD-56B	SMRD-56B-GW042011	Te-125m	Total	0.22	NA	0.84	NA
RD-56B	SMRD-56B-GW042011	Th-231	Filtered	-0.0014 U	0.012	0.0014	0.0037
RD-56B	SMRD-56B-GW042011	Th-231	Suspended	0.01	0.016	0.0057	0.005
RD-56B	SMRD-56B-GW042011	Th-231	Total	0.0086	NA	0.0058	NA
RD-56B	SMRD-56B-GW042011	Th-234	Filtered	7.6 U	23	8.1	11
RD-56B	SMRD-56B-GW042011	Th-234	Suspended	-1.3 U	5	1.5	2.4
RD-56B	SMRD-56B-GW042011	Th-234	Total	6.3	NA	8.2	NA
RD-56B	SMRD-56B-GW042011	Tl-208	Filtered	0.63	1.3	0.44	0.63
RD-56B	SMRD-56B-GW042011	Tl-208	Suspended	-0.18 U	0.62	0.41	0.3
RD-56B	SMRD-56B-GW042011	Tl-208	Total	0.46	NA	0.6	NA
RD-56B	SMRD-56B-GW042011	Tm-171	Filtered	70 U	340	100	170

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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-56B	SMRD-56B-GW042011	Tm-171	Suspended	18 U	83	25	40
RD-56B	SMRD-56B-GW042011	Tm-171	Total	90	NA	110	NA
RD-56B	SMRD-56B-GW042011	U-233/234	Filtered	0.0202	0.0096	0.0066	0.003
RD-56B	SMRD-56B-GW042011	U-233/234	Suspended	0.0053 U	0.016	0.0064	0.0056
RD-56B	SMRD-56B-GW042011	U-233/234	Total	0.0254	NA	0.0092	NA
RD-56B	SMRD-56B-GW042011	U-235/236	Filtered	-0.0014 U	0.012	0.0014	0.0037
RD-56B	SMRD-56B-GW042011	U-235/236	Suspended	0.01	0.016	0.0057	0.005
RD-56B	SMRD-56B-GW042011	U-235/236	Total	0.0086	NA	0.0058	NA
RD-56B	SMRD-56B-GW042011	U-238	Filtered	0.0175	0.0039	0.0058	0.003
RD-56B	SMRD-56B-GW042011	U-238	Suspended	0.0134	0.013	0.0068	0.004
RD-56B	SMRD-56B-GW042011	U-238	Total	0.0308	NA	0.0089	NA
RD-57	SMRD-57-GW033111	Ac-227	Filtered	-6.6 L U	9.6	2.9	4.7
RD-57	SMRD-57-GW033111	Ac-227	Suspended	-2.2 U	4.5	1.4	2.2
RD-57	SMRD-57-GW033111	Ac-227	Total	-8.9 L	NA	3.2	NA
RD-57	SMRD-57-GW033111	Ac-228	Filtered	3.9	3.9	1.3	1.8
RD-57	SMRD-57-GW033111	Ac-228	Suspended	1.68	2.4	0.75	1.1
RD-57	SMRD-57-GW033111	Ac-228	Total	5.6	NA	1.5	NA
RD-57	SMRD-57-GW033111	Ag-108	Filtered	0.024 U R	0.084	0.025	0.04
RD-57	SMRD-57-GW033111	Ag-108	Suspended	0.003 U R	0.055	0.016	0.026
RD-57	SMRD-57-GW033111	Ag-108	Total	0.028 R	NA	0.03	NA
RD-57	SMRD-57-GW033111	Ag-108m	Filtered	0.26 U R	0.9	0.27	0.43
RD-57	SMRD-57-GW033111	Ag-108m	Suspended	0.03 U R	0.59	0.17	0.28
RD-57	SMRD-57-GW033111	Ag-108m	Total	0.3 R	NA	0.32	NA
RD-57	SMRD-57-GW033111	Ba-133	Filtered	-0.04 U R	11	3.1	5.1
RD-57	SMRD-57-GW033111	Ba-133	Suspended	-1.6 U R	7.1	2.1	3.4
RD-57	SMRD-57-GW033111	Ba-133	Total	-1.6 R	NA	3.8	NA
RD-57	SMRD-57-GW033111	Ba-137m	Filtered	-0.14 U	1.1	0.31	0.49
RD-57	SMRD-57-GW033111	Ba-137m	Suspended	-0.13 U	0.71	0.21	0.33
RD-57	SMRD-57-GW033111	Ba-137m	Total	-0.27	NA	0.37	NA
RD-57	SMRD-57-GW033111	Bi-212	Filtered	4 U	9.7	2.9	4.6
RD-57	SMRD-57-GW033111	Bi-212	Suspended	0.8 U	5.5	1.6	2.6
RD-57	SMRD-57-GW033111	Bi-212	Total	4.7	NA	3.3	NA
RD-57	SMRD-57-GW033111	Bi-214	Filtered	1.47	2.7	0.92	1.3
RD-57	SMRD-57-GW033111	Bi-214	Suspended	0.35 U	1.7	0.6	0.81
RD-57	SMRD-57-GW033111	Bi-214	Total	1.8	NA	1.1	NA
RD-57	SMRD-57-GW033111	Cd-113m	Filtered	2600 U	14000	4000	6500
RD-57	SMRD-57-GW033111	Cd-113m	Suspended	100 U	7300	2100	3500
RD-57	SMRD-57-GW033111	Cd-113m	Total	2700	NA	4600	NA

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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW033111	Cf-249	Filtered	0.2 U R	6.2	1.8	3
RD-57	SMRD-57-GW033111	Cf-249	Suspended	0.74 U R	3.1	0.94	1.5
RD-57	SMRD-57-GW033111	Cf-249	Total	1 R	NA	2.1	NA
RD-57	SMRD-57-GW033111	Co-60	Filtered	0.23 U	1.4	0.39	0.63
RD-57	SMRD-57-GW033111	Co-60	Suspended	0.12 U	0.77	0.22	0.35
RD-57	SMRD-57-GW033111	Co-60	Total	0.35	NA	0.45	NA
RD-57	SMRD-57-GW033111	Cs-134	Filtered	-0.44 U	1.4	0.41	0.65
RD-57	SMRD-57-GW033111	Cs-134	Suspended	-0.22 U	0.85	0.25	0.41
RD-57	SMRD-57-GW033111	Cs-134	Total	-0.66	NA	0.48	NA
RD-57	SMRD-57-GW033111	Cs-137	Filtered	-0.15 U	1.1	0.32	0.52
RD-57	SMRD-57-GW033111	Cs-137	Suspended	-0.14 U	0.75	0.22	0.35
RD-57	SMRD-57-GW033111	Cs-137	Total	-0.29	NA	0.39	NA
RD-57	SMRD-57-GW033111	Eu-152	Filtered	-0.5 U	3.4	1	1.6
RD-57	SMRD-57-GW033111	Eu-152	Suspended	-0.05 U	2	0.57	0.94
RD-57	SMRD-57-GW033111	Eu-152	Total	-0.6	NA	1.2	NA
RD-57	SMRD-57-GW033111	Eu-154	Filtered	2 U	9.6	2.8	4.4
RD-57	SMRD-57-GW033111	Eu-154	Suspended	1.7 U	5.2	1.6	2.4
RD-57	SMRD-57-GW033111	Eu-154	Total	3.7	NA	3.2	NA
RD-57	SMRD-57-GW033111	Eu-155	Filtered	0.95 U	3.2	0.97	1.6
RD-57	SMRD-57-GW033111	Eu-155	Suspended	0.38 U	1.4	0.42	0.68
RD-57	SMRD-57-GW033111	Eu-155	Total	1.3	NA	1.1	NA
RD-57	SMRD-57-GW040111	gross_alpha	Filtered	6.26	0.48	0.51	0.26
RD-57	SMRD-57-GW040111	gross_alpha	Suspended	0.02 U	0.54	0.14	0.3
RD-57	SMRD-57-GW040111	gross_alpha	Total	6.29	NA	0.53	NA
RD-57	SMRD-57-GW033111	gross_beta	Filtered	4.24	2.3	0.87	1.3
RD-57	SMRD-57-GW033111	gross_beta	Suspended	0.67	0.84	0.27	0.5
RD-57	SMRD-57-GW033111	gross_beta	Total	4.91	NA	0.91	NA
RD-57	SMRD-57-GW040111	H-3	Total	47 U	120	36	58
RD-57	SMRD-57-GW033111	Ho-166m	Filtered	-0.34 U	1.8	0.53	0.86
RD-57	SMRD-57-GW033111	Ho-166m	Suspended	-0.24 U	1.3	0.37	0.59
RD-57	SMRD-57-GW033111	Ho-166m	Total	-0.58 SK	NA	0.65	NA
RD-57	SMRD-57-GW033111	K-40	Filtered	-4.9 U	18	7.1	8.6
RD-57	SMRD-57-GW033111	K-40	Suspended	4.9	10	2.7	4.7
RD-57	SMRD-57-GW033111	K-40	Total	0.01	NA	7.6	NA
RD-57	SMRD-57-GW033111	Na-22	Filtered	-0.07 U	1.3	0.38	0.62
RD-57	SMRD-57-GW033111	Na-22	Suspended	0.03 U	0.85	0.24	0.39
RD-57	SMRD-57-GW033111	Na-22	Total	-0.04	NA	0.45	NA
RD-57	SMRD-57-GW033111	Nb-94	Filtered	-0.23 U	1.2	0.34	0.55

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW033111	Nb-94	Suspended	0.18 U	0.57	0.17	0.26
RD-57	SMRD-57-GW033111	Nb-94	Total	-0.05	NA	0.38	NA
RD-57	SMRD-57-GW033111	Np-236	Filtered	-0.59 U	3	0.89	1.4
RD-57	SMRD-57-GW033111	Np-236	Suspended	-0.24 U	1.4	0.41	0.67
RD-57	SMRD-57-GW033111	Np-236	Total	-0.83	NA	0.98	NA
RD-57	SMRD-57-GW033111	Np-239	Filtered	-1.2 U	7.9	2.3	3.8
RD-57	SMRD-57-GW033111	Np-239	Suspended	-0.3 U	3.8	1.1	1.8
RD-57	SMRD-57-GW033111	Np-239	Total	-1.6	NA	2.6	NA
RD-57	SMRD-57-GW033111	Pa-231	Filtered	6 U	51	15	25
RD-57	SMRD-57-GW033111	Pa-231	Suspended	-2.8 U	29	8.7	14
RD-57	SMRD-57-GW033111	Pa-231	Total	3	NA	17	NA
RD-57	SMRD-57-GW033111	Pb-212	Filtered	1 U	2.3	0.72	1.1
RD-57	SMRD-57-GW033111	Pb-212	Suspended	0.92	1.4	0.54	0.66
RD-57	SMRD-57-GW033111	Pb-212	Total	1.92	NA	0.9	NA
RD-57	SMRD-57-GW033111	Pb-214	Filtered	2	2.3	0.81	1.1
RD-57	SMRD-57-GW033111	Pb-214	Suspended	0.17 U	1.3	0.42	0.65
RD-57	SMRD-57-GW033111	Pb-214	Total	2.17	NA	0.91	NA
RD-57	SMRD-57-GW033111	Sb-125	Filtered	-1.6 U	13	4	6.5
RD-57	SMRD-57-GW033111	Sb-125	Suspended	0.08 U	5.5	1.6	2.7
RD-57	SMRD-57-GW033111	Sb-125	Total	-1.5	NA	4.3	NA
RD-57	SMRD-57-GW033111	Sn-126	Filtered	-0.3 U	1.3	0.38	0.61
RD-57	SMRD-57-GW033111	Sn-126	Suspended	0.19 U	0.78	0.23	0.37
RD-57	SMRD-57-GW033111	Sn-126	Total	-0.12	NA	0.44	NA
RD-57	SMRD-57-GW033111	Sr-90	Filtered	0.07 U	0.22	0.065	0.12
RD-57	SMRD-57-GW040111	Sr-90	Filtered	-0.019 U	0.21	0.061	0.12
RD-57	SMRD-57-GW033111	Sr-90	Suspended	0.031	0.05	0.016	0.028
RD-57	SMRD-57-GW040111	Sr-90	Suspended	-0.077 U	0.22	0.061	0.12
RD-57	SMRD-57-GW033111	Sr-90	Total	0.101	NA	0.067	NA
RD-57	SMRD-57-GW040111	Sr-90	Total	-0.095	NA	0.087	NA
RD-57	SMRD-57-GW033111	Te-125m	Filtered	-0.36 U	3.1	0.92	1.5
RD-57	SMRD-57-GW033111	Te-125m	Suspended	0.02 U	1.3	0.38	0.62
RD-57	SMRD-57-GW033111	Te-125m	Total	-0.34	NA	0.99	NA
RD-57	SMRD-57-GW033111	Th-231	Filtered	0.133	0.007	0.019	0.005
RD-57	SMRD-57-GW033111	Th-231	Suspended	0.0024 U	0.0064	0.0024	0.0049
RD-57	SMRD-57-GW033111	Th-231	Total	0.135	NA	0.019	NA
RD-57	SMRD-57-GW033111	Th-234	Filtered	4.6 U	22	7.6	11
RD-57	SMRD-57-GW033111	Th-234	Suspended	3.6 U	9.1	3.3	4.5
RD-57	SMRD-57-GW033111	Th-234	Total	8.2	NA	8.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-57	SMRD-57-GW033111	Tl-208	Filtered	0.71	1.5	0.57	0.7
RD-57	SMRD-57-GW033111	Tl-208	Suspended	0.18 U	0.87	0.23	0.42
RD-57	SMRD-57-GW033111	Tl-208	Total	0.89	NA	0.62	NA
RD-57	SMRD-57-GW033111	Tm-171	Filtered	220	340	100	160
RD-57	SMRD-57-GW033111	Tm-171	Suspended	-25 U	140	42	69
RD-57	SMRD-57-GW033111	Tm-171	Total	200	NA	110	NA
RD-57	SMRD-57-GW033111	U-233/234	Filtered	4.46	0.01	0.21	0.004
RD-57	SMRD-57-GW033111	U-233/234	Suspended	0.0046	0.0051	0.0054	0.0039
RD-57	SMRD-57-GW033111	U-233/234	Total	4.46	NA	0.21	NA
RD-57	SMRD-57-GW033111	U-235/236	Filtered	0.133	0.007	0.019	0.005
RD-57	SMRD-57-GW033111	U-235/236	Suspended	0.0024 U	0.0064	0.0024	0.0049
RD-57	SMRD-57-GW033111	U-235/236	Total	0.135	NA	0.019	NA
RD-57	SMRD-57-GW033111	U-238	Filtered	3.55	0.01	0.17	0.004
RD-57	SMRD-57-GW033111	U-238	Suspended	-0.0041 U	0.0051	0.0027	0.0039
RD-57	SMRD-57-GW033111	U-238	Total	3.55	NA	0.17	NA
RD-59A	SORD-59A-GW041811	Ac-227	Filtered	-6.2 U	12	3.5	5.6
RD-59A	SORD-59A-GW041811	Ac-227	Suspended	-2.9 U	4.9	1.5	2.4
RD-59A	SORD-59A-GW041811	Ac-227	Total	-9.1 L	NA	3.8	NA
RD-59A	SORD-59A-GW041811	Ac-228	Filtered	-0.3 U	5.8	1.7	2.7
RD-59A	SORD-59A-GW041811	Ac-228	Suspended	-0.9 U	2.7	1.5	1.3
RD-59A	SORD-59A-GW041811	Ac-228	Total	-1.3	NA	2.2	NA
RD-59A	SORD-59A-GW041811	Ag-108	Filtered	-0.001 U R	0.12	0.034	0.055
RD-59A	SORD-59A-GW041811	Ag-108	Suspended	-0.011 U R	0.05	0.015	0.024
RD-59A	SORD-59A-GW041811	Ag-108	Total	-0.012 R	NA	0.037	NA
RD-59A	SORD-59A-GW041811	Ag-108m	Filtered	-0.01 U R	1.2	0.36	0.59
RD-59A	SORD-59A-GW041811	Ag-108m	Suspended	-0.11 U R	0.54	0.16	0.26
RD-59A	SORD-59A-GW041811	Ag-108m	Total	-0.13 R	NA	0.39	NA
RD-59A	SORD-59A-GW041811	Ba-133	Filtered	-0.3 U R	15	4.5	7.4
RD-59A	SORD-59A-GW041811	Ba-133	Suspended	0.9 U R	5.9	1.8	2.9
RD-59A	SORD-59A-GW041811	Ba-133	Total	0.6 R	NA	4.8	NA
RD-59A	SORD-59A-GW041811	Ba-137m	Filtered	-0.38 U	1.5	0.43	0.69
RD-59A	SORD-59A-GW041811	Ba-137m	Suspended	-0.004 U	0.72	0.21	0.34
RD-59A	SORD-59A-GW041811	Ba-137m	Total	-0.38	NA	0.48	NA
RD-59A	SORD-59A-GW041811	Bi-212	Filtered	2.9 U	12	3.5	5.5
RD-59A	SORD-59A-GW041811	Bi-212	Suspended	2.7	5.1	1.6	2.4
RD-59A	SORD-59A-GW041811	Bi-212	Total	5.7	NA	3.8	NA
RD-59A	SORD-59A-GW041811	Bi-214	Filtered	0.6 U	3.6	1.3	1.7
RD-59A	SORD-59A-GW041811	Bi-214	Suspended	0.4 U	1.7	0.57	0.81

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59A	SORD-59A-GW041811	Bi-214	Total	1	NA	1.4	NA
RD-59A	SORD-59A-GW041811	Cd-113m	Filtered	9700	14000	4500	6900
RD-59A	SORD-59A-GW041811	Cd-113m	Suspended	-900 U	7600	2300	3700
RD-59A	SORD-59A-GW041811	Cd-113m	Total	8800	NA	5000	NA
RD-59A	SORD-59A-GW041811	Cf-249	Filtered	4.4 R	4.3	1.4	2
RD-59A	SORD-59A-GW041811	Cf-249	Suspended	0.18 U R	2.8	0.83	1.4
RD-59A	SORD-59A-GW041811	Cf-249	Total	4.6 R	NA	1.6	NA
RD-59A	SORD-59A-GW041811	Co-60	Filtered	-0.03 U	1.7	0.48	0.78
RD-59A	SORD-59A-GW041811	Co-60	Suspended	0.1 U	0.72	0.21	0.33
RD-59A	SORD-59A-GW041811	Co-60	Total	0.07	NA	0.52	NA
RD-59A	SORD-59A-GW041811	Cs-134	Filtered	0.13 U	1.6	0.46	0.75
RD-59A	SORD-59A-GW041811	Cs-134	Suspended	-0.24 U	0.82	0.24	0.39
RD-59A	SORD-59A-GW041811	Cs-134	Total	-0.11	NA	0.52	NA
RD-59A	SORD-59A-GW041811	Cs-137	Filtered	-0.4 U	1.6	0.46	0.73
RD-59A	SORD-59A-GW041811	Cs-137	Suspended	-0.004 U	0.77	0.22	0.36
RD-59A	SORD-59A-GW041811	Cs-137	Total	-0.4	NA	0.51	NA
RD-59A	SORD-59A-GW041811	Eu-152	Filtered	0.6 U	4	1.2	1.9
RD-59A	SORD-59A-GW041811	Eu-152	Suspended	-0.04 U	1.9	0.56	0.93
RD-59A	SORD-59A-GW041811	Eu-152	Total	0.6	NA	1.3	NA
RD-59A	SORD-59A-GW041811	Eu-154	Filtered	-0.09 U	13	3.6	6
RD-59A	SORD-59A-GW041811	Eu-154	Suspended	-0.002 U	5.3	1.5	2.5
RD-59A	SORD-59A-GW041811	Eu-154	Total	-0.1	NA	3.9	NA
RD-59A	SORD-59A-GW041811	Eu-155	Filtered	-0.05 U	3.7	1.1	1.8
RD-59A	SORD-59A-GW041811	Eu-155	Suspended	-0.28 U	1.3	0.39	0.64
RD-59A	SORD-59A-GW041811	Eu-155	Total	-0.3	NA	1.2	NA
RD-59A	SORD-59A-GW041811	gross_alpha	Filtered	4.01	0.82	0.52	0.44
RD-59A	SORD-59A-GW041811	gross_alpha	Suspended	1.4	0.54	0.26	0.29
RD-59A	SORD-59A-GW041811	gross_alpha	Total	5.41	NA	0.58	NA
RD-59A	SORD-59A-GW041811	gross_beta	Filtered	2.95	2	0.7	1.2
RD-59A	SORD-59A-GW041811	gross_beta	Suspended	0.84	0.96	0.31	0.57
RD-59A	SORD-59A-GW041811	gross_beta	Total	3.79	NA	0.76	NA
RD-59A	SORD-59A-GW041811	H-3	Total	110	150	46	73
RD-59A	SORD-59A-GW041811	Ho-166m	Filtered	0.004 U	2.7	0.76	1.2
RD-59A	SORD-59A-GW041811	Ho-166m	Suspended	-0.002 U	1.1	0.33	0.54
RD-59A	SORD-59A-GW041811	Ho-166m	Total	0.002	NA	0.83	NA
RD-59A	SORD-59A-GW041811	K-40	Filtered	13.6	22	7.5	10
RD-59A	SORD-59A-GW041811	K-40	Suspended	4.4 U	10	3.6	4.9
RD-59A	SORD-59A-GW041811	K-40	Total	18	NA	8.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59A	SORD-59A-GW041811	Na-22	Filtered	0.1 U	1.3	0.34	0.56
RD-59A	SORD-59A-GW041811	Na-22	Suspended	0.006 U	0.79	0.22	0.37
RD-59A	SORD-59A-GW041811	Na-22	Total	0.1	NA	0.41	NA
RD-59A	SORD-59A-GW041811	Nb-94	Filtered	0.4 U	1.4	0.43	0.68
RD-59A	SORD-59A-GW041811	Nb-94	Suspended	0.35	0.58	0.18	0.28
RD-59A	SORD-59A-GW041811	Nb-94	Total	0.76	NA	0.46	NA
RD-59A	SORD-59A-GW041811	Np-236	Filtered	0.4 U	3.4	1	1.7
RD-59A	SORD-59A-GW041811	Np-236	Suspended	0.46 U	1.2	0.37	0.59
RD-59A	SORD-59A-GW041811	Np-236	Total	0.9	NA	1.1	NA
RD-59A	SORD-59A-GW041811	Np-239	Filtered	-0.2 U	9.6	2.8	4.6
RD-59A	SORD-59A-GW041811	Np-239	Suspended	0.5 U	3.7	1.1	1.8
RD-59A	SORD-59A-GW041811	Np-239	Total	0.3	NA	3	NA
RD-59A	SORD-59A-GW041811	Pa-231	Filtered	-17 U	71	21	34
RD-59A	SORD-59A-GW041811	Pa-231	Suspended	-0.5 U	25	7.4	12
RD-59A	SORD-59A-GW041811	Pa-231	Total	-17	NA	22	NA
RD-59A	SORD-59A-GW041811	Pb-212	Filtered	1.2 U	2.9	1	1.4
RD-59A	SORD-59A-GW041811	Pb-212	Suspended	0.6	1.1	0.39	0.54
RD-59A	SORD-59A-GW041811	Pb-212	Total	1.8	NA	1.1	NA
RD-59A	SORD-59A-GW041811	Pb-214	Filtered	0.57 U	3.1	0.99	1.5
RD-59A	SORD-59A-GW041811	Pb-214	Suspended	-0.26 U	1.7	0.56	0.82
RD-59A	SORD-59A-GW041811	Pb-214	Total	0.3	NA	1.1	NA
RD-59A	SORD-59A-GW041811	Sb-125	Filtered	-1.6 U	15	4.5	7.4
RD-59A	SORD-59A-GW041811	Sb-125	Suspended	-2 U	5.9	1.8	2.9
RD-59A	SORD-59A-GW041811	Sb-125	Total	-3.6	NA	4.8	NA
RD-59A	SORD-59A-GW041811	Sn-126	Filtered	-0.03 U	1.5	0.43	0.71
RD-59A	SORD-59A-GW041811	Sn-126	Suspended	0.28 U	0.73	0.22	0.35
RD-59A	SORD-59A-GW041811	Sn-126	Total	0.25	NA	0.49	NA
RD-59A	SORD-59A-GW041811	Sr-90	Filtered	0.005 U	0.085	0.025	0.049
RD-59A	SORD-59A-GW041811	Sr-90	Suspended	-0.002 U	0.065	0.019	0.035
RD-59A	SORD-59A-GW041811	Sr-90	Total	0.003	NA	0.031	NA
RD-59A	SORD-59A-GW041811	Te-125m	Filtered	-0.4 U	3.5	1	1.7
RD-59A	SORD-59A-GW041811	Te-125m	Suspended	-0.46 U	1.4	0.41	0.66
RD-59A	SORD-59A-GW041811	Te-125m	Total	-0.8	NA	1.1	NA
RD-59A	SORD-59A-GW041811	Th-231	Filtered	0.0355	0.0074	0.01	0.0057
RD-59A	SORD-59A-GW041811	Th-231	Suspended	0.0052 U	0.0071	0.0037	0.0054
RD-59A	SORD-59A-GW041811	Th-231	Total	0.041	NA	0.011	NA
RD-59A	SORD-59A-GW041811	Th-234	Filtered	14	28	10	14
RD-59A	SORD-59A-GW041811	Th-234	Suspended	-1.2 U	7.1	2.3	3.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59A	SORD-59A-GW041811	Th-234	Total	13	NA	10	NA
RD-59A	SORD-59A-GW041811	Tl-208	Filtered	1.56	1.7	0.67	0.83
RD-59A	SORD-59A-GW041811	Tl-208	Suspended	0.15 U	0.83	0.23	0.4
RD-59A	SORD-59A-GW041811	Tl-208	Total	1.71	NA	0.71	NA
RD-59A	SORD-59A-GW041811	Tm-171	Filtered	150 U	450	140	220
RD-59A	SORD-59A-GW041811	Tm-171	Suspended	2 U	120	35	58
RD-59A	SORD-59A-GW041811	Tm-171	Total	150	NA	140	NA
RD-59A	SORD-59A-GW041811	U-233/234	Filtered	0.922	0.018	0.06	0.006
RD-59A	SORD-59A-GW041811	U-233/234	Suspended	-0.0034 U	0.02	0.0059	0.0075
RD-59A	SORD-59A-GW041811	U-233/234	Total	0.919	NA	0.06	NA
RD-59A	SORD-59A-GW041811	U-235/236	Filtered	0.0355	0.0074	0.01	0.0057
RD-59A	SORD-59A-GW041811	U-235/236	Suspended	0.0052 U	0.0071	0.0037	0.0054
RD-59A	SORD-59A-GW041811	U-235/236	Total	0.041	NA	0.011	NA
RD-59A	SORD-59A-GW041811	U-238	Filtered	0.607	0.015	0.045	0.005
RD-59A	SORD-59A-GW041811	U-238	Suspended	0.0107	0.0057	0.0063	0.0043
RD-59A	SORD-59A-GW041811	U-238	Total	0.618	NA	0.045	NA
RD-59B	SORD-59B-GW041811	Ac-227	Filtered	0 U	10	3.1	5.1
RD-59B	SORD-59B-GW041811	Ac-227	Suspended	-1.3 U	4.2	1.3	2
RD-59B	SORD-59B-GW041811	Ac-227	Total	-1.3	NA	3.4	NA
RD-59B	SORD-59B-GW041811	Ac-228	Filtered	3.1	3.7	1.2	1.7
RD-59B	SORD-59B-GW041811	Ac-228	Suspended	0.35 U	2.7	0.78	1.3
RD-59B	SORD-59B-GW041811	Ac-228	Total	3.5	NA	1.4	NA
RD-59B	SORD-59B-GW041811	Ag-108	Filtered	0 U R	0.095	0.027	0.045
RD-59B	SORD-59B-GW041811	Ag-108	Suspended	0.014 U R	0.039	0.012	0.018
RD-59B	SORD-59B-GW041811	Ag-108	Total	0.014 R	NA	0.03	NA
RD-59B	SORD-59B-GW041811	Ag-108m	Filtered	0 U R	1	0.29	0.48
RD-59B	SORD-59B-GW041811	Ag-108m	Suspended	0.15 U R	0.42	0.13	0.2
RD-59B	SORD-59B-GW041811	Ag-108m	Total	0.15 R	NA	0.32	NA
RD-59B	SORD-59B-GW041811	Ba-133	Filtered	1.5 U R	11	3.4	5.5
RD-59B	SORD-59B-GW041811	Ba-133	Suspended	1.7 U R	4.2	1.3	2
RD-59B	SORD-59B-GW041811	Ba-133	Total	3.2 R	NA	3.6	NA
RD-59B	SORD-59B-GW041811	Ba-137m	Filtered	-0.12 U	1.2	0.34	0.55
RD-59B	SORD-59B-GW041811	Ba-137m	Suspended	0.32	0.68	0.21	0.32
RD-59B	SORD-59B-GW041811	Ba-137m	Total	0.2	NA	0.4	NA
RD-59B	SORD-59B-GW041811	Bi-212	Filtered	3.5 U	8.7	2.6	4.1
RD-59B	SORD-59B-GW041811	Bi-212	Suspended	-0.05 U	5.4	1.5	2.5
RD-59B	SORD-59B-GW041811	Bi-212	Total	3.4	NA	3	NA
RD-59B	SORD-59B-GW041811	Bi-214	Filtered	0.4 U	2.8	1	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59B	SORD-59B-GW041811	Bi-214	Suspended	0.81	1.3	0.43	0.6
RD-59B	SORD-59B-GW041811	Bi-214	Total	1.2	NA	1.1	NA
RD-59B	SORD-59B-GW041811	Cd-113m	Filtered	-3200 U	15000	4500	7200
RD-59B	SORD-59B-GW041811	Cd-113m	Suspended	40 U	6500	1900	3100
RD-59B	SORD-59B-GW041811	Cd-113m	Total	-3200	NA	4800	NA
RD-59B	SORD-59B-GW041811	Cf-249	Filtered	0 U R	5.9	1.7	2.8
RD-59B	SORD-59B-GW041811	Cf-249	Suspended	0.44 U R	2.8	0.81	1.3
RD-59B	SORD-59B-GW041811	Cf-249	Total	0.4 R	NA	1.9	NA
RD-59B	SORD-59B-GW041811	Co-60	Filtered	0 U	1.9	0.55	0.91
RD-59B	SORD-59B-GW041811	Co-60	Suspended	0.16 U	0.63	0.18	0.28
RD-59B	SORD-59B-GW041811	Co-60	Total	0.16	NA	0.58	NA
RD-59B	SORD-59B-GW041811	Cs-134	Filtered	0.39 U	1.2	0.35	0.55
RD-59B	SORD-59B-GW041811	Cs-134	Suspended	0.17 U	0.61	0.18	0.29
RD-59B	SORD-59B-GW041811	Cs-134	Total	0.56	NA	0.39	NA
RD-59B	SORD-59B-GW041811	Cs-137	Filtered	-0.12 U	1.2	0.36	0.58
RD-59B	SORD-59B-GW041811	Cs-137	Suspended	0.34	0.72	0.22	0.34
RD-59B	SORD-59B-GW041811	Cs-137	Total	0.21	NA	0.42	NA
RD-59B	SORD-59B-GW041811	Eu-152	Filtered	0.82 U	3.2	0.96	1.5
RD-59B	SORD-59B-GW041811	Eu-152	Suspended	-0.02 U	1.2	0.35	0.58
RD-59B	SORD-59B-GW041811	Eu-152	Total	0.8	NA	1	NA
RD-59B	SORD-59B-GW041811	Eu-154	Filtered	1.9 U	9	2.6	4.2
RD-59B	SORD-59B-GW041811	Eu-154	Suspended	0.2 U	5.6	1.6	2.6
RD-59B	SORD-59B-GW041811	Eu-154	Total	2.2	NA	3.1	NA
RD-59B	SORD-59B-GW041811	Eu-155	Filtered	-0.4 U	3.4	1	1.6
RD-59B	SORD-59B-GW041811	Eu-155	Suspended	0.17 U	1	0.31	0.5
RD-59B	SORD-59B-GW041811	Eu-155	Total	-0.3	NA	1.1	NA
RD-59B	SORD-59B-GW041811	gross_alpha	Filtered	2.19	0.42	0.28	0.22
RD-59B	SORD-59B-GW041811	gross_alpha	Suspended	0.05 U	0.52	0.14	0.28
RD-59B	SORD-59B-GW041811	gross_alpha	Total	2.24	NA	0.32	NA
RD-59B	SORD-59B-GW041811	gross_beta	Filtered	1.69	1.2	0.41	0.69
RD-59B	SORD-59B-GW041811	gross_beta	Suspended	0.37 U	0.82	0.25	0.49
RD-59B	SORD-59B-GW041811	gross_beta	Total	2.06	NA	0.48	NA
RD-59B	SORD-59B-GW041811	H-3	Total	2 U	160	46	76
RD-59B	SORD-59B-GW041811	Ho-166m	Filtered	0.23 U	1.7	0.5	0.8
RD-59B	SORD-59B-GW041811	Ho-166m	Suspended	0.05 U	1.1	0.31	0.5
RD-59B	SORD-59B-GW041811	Ho-166m	Total	0.28	NA	0.58	NA
RD-59B	SORD-59B-GW041811	K-40	Filtered	-6.6 U	18	8.1	8.4
RD-59B	SORD-59B-GW041811	K-40	Suspended	-3.8 U	10	5.2	4.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59B	SORD-59B-GW041811	K-40	Total	-10.4	NA	9.7	NA
RD-59B	SORD-59B-GW041811	Na-22	Filtered	0.002 U	1.3	0.36	0.59
RD-59B	SORD-59B-GW041811	Na-22	Suspended	0.02 U	0.86	0.24	0.39
RD-59B	SORD-59B-GW041811	Na-22	Total	0.02	NA	0.43	NA
RD-59B	SORD-59B-GW041811	Nb-94	Filtered	-0.07 U	1.2	0.34	0.55
RD-59B	SORD-59B-GW041811	Nb-94	Suspended	0.02 U	0.59	0.17	0.27
RD-59B	SORD-59B-GW041811	Nb-94	Total	-0.05	NA	0.38	NA
RD-59B	SORD-59B-GW041811	Np-236	Filtered	-0.53 U	2.9	0.88	1.4
RD-59B	SORD-59B-GW041811	Np-236	Suspended	-0.02 U	1	0.31	0.5
RD-59B	SORD-59B-GW041811	Np-236	Total	-0.55	NA	0.93	NA
RD-59B	SORD-59B-GW041811	Np-239	Filtered	0.3 U	7	2	3.4
RD-59B	SORD-59B-GW041811	Np-239	Suspended	-0.09 U	3.2	0.93	1.5
RD-59B	SORD-59B-GW041811	Np-239	Total	0.2	NA	2.2	NA
RD-59B	SORD-59B-GW041811	Pa-231	Filtered	7 U	51	15	24
RD-59B	SORD-59B-GW041811	Pa-231	Suspended	-8 U	26	7.9	13
RD-59B	SORD-59B-GW041811	Pa-231	Total	-0.5	NA	17	NA
RD-59B	SORD-59B-GW041811	Pb-212	Filtered	-0.06 U	2.3	0.69	1.1
RD-59B	SORD-59B-GW041811	Pb-212	Suspended	0.47 U	1.1	0.37	0.52
RD-59B	SORD-59B-GW041811	Pb-212	Total	0.42	NA	0.78	NA
RD-59B	SORD-59B-GW041811	Pb-214	Filtered	-0.07 U	2.8	0.8	1.3
RD-59B	SORD-59B-GW041811	Pb-214	Suspended	-0.09 U	1.4	0.4	0.67
RD-59B	SORD-59B-GW041811	Pb-214	Total	-0.16	NA	0.9	NA
RD-59B	SORD-59B-GW041811	Sb-125	Filtered	-0.2 U	12	3.7	6
RD-59B	SORD-59B-GW041811	Sb-125	Suspended	-0.1 U	3.8	1.1	1.8
RD-59B	SORD-59B-GW041811	Sb-125	Total	-0.3	NA	3.8	NA
RD-59B	SORD-59B-GW041811	Sn-126	Filtered	0.74	1.2	0.38	0.58
RD-59B	SORD-59B-GW041811	Sn-126	Suspended	0.21 U	0.71	0.21	0.33
RD-59B	SORD-59B-GW041811	Sn-126	Total	0.95	NA	0.43	NA
RD-59B	SORD-59B-GW041811	Sr-90	Filtered	-0.012 U	0.096	0.028	0.055
RD-59B	SORD-59B-GW041811	Sr-90	Suspended	0.016 U	0.06	0.018	0.032
RD-59B	SORD-59B-GW041811	Sr-90	Total	0.004	NA	0.033	NA
RD-59B	SORD-59B-GW041811	Te-125m	Filtered	-0.04 U	2.9	0.85	1.4
RD-59B	SORD-59B-GW041811	Te-125m	Suspended	-0.02 U	0.87	0.25	0.41
RD-59B	SORD-59B-GW041811	Te-125m	Total	-0.07	NA	0.88	NA
RD-59B	SORD-59B-GW041811	Th-231	Filtered	0.0028 U	0.015	0.0037	0.0048
RD-59B	SORD-59B-GW041811	Th-231	Suspended	0.0005 U	0.016	0.0031	0.0051
RD-59B	SORD-59B-GW041811	Th-231	Total	0.0033	NA	0.0049	NA
RD-59B	SORD-59B-GW041811	Th-234	Filtered	8.9 U	20	6.8	9.9

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59B	SORD-59B-GW041811	Th-234	Suspended	4.5	6.9	2.5	3.3
RD-59B	SORD-59B-GW041811	Th-234	Total	13.4	NA	7.2	NA
RD-59B	SORD-59B-GW041811	Tl-208	Filtered	0.97	1.5	0.58	0.71
RD-59B	SORD-59B-GW041811	Tl-208	Suspended	-0.18 U	0.9	0.4	0.43
RD-59B	SORD-59B-GW041811	Tl-208	Total	0.79	NA	0.71	NA
RD-59B	SORD-59B-GW041811	Tm-171	Filtered	170	340	100	170
RD-59B	SORD-59B-GW041811	Tm-171	Suspended	-2 U	100	30	49
RD-59B	SORD-59B-GW041811	Tm-171	Total	170	NA	110	NA
RD-59B	SORD-59B-GW041811	U-233/234	Filtered	0.209	0.012	0.022	0.004
RD-59B	SORD-59B-GW041811	U-233/234	Suspended	0.009	0.0053	0.0063	0.0041
RD-59B	SORD-59B-GW041811	U-233/234	Total	0.218	NA	0.023	NA
RD-59B	SORD-59B-GW041811	U-235/236	Filtered	0.0028 U	0.015	0.0037	0.0048
RD-59B	SORD-59B-GW041811	U-235/236	Suspended	0.0005 U	0.016	0.0031	0.0051
RD-59B	SORD-59B-GW041811	U-235/236	Total	0.0033	NA	0.0049	NA
RD-59B	SORD-59B-GW041811	U-238	Filtered	0.135	0.005	0.017	0.004
RD-59B	SORD-59B-GW041811	U-238	Suspended	-0.0021 U	0.0053	0.0034	0.0041
RD-59B	SORD-59B-GW041811	U-238	Total	0.133	NA	0.018	NA
RD-59C	SORD-59C-GW041811	Ac-227	Filtered	0.1 U	12	3.4	5.7
RD-59C	SORD-59C-GW041811	Ac-227	Suspended	-2.2 U	4.4	1.3	2.1
RD-59C	SORD-59C-GW041811	Ac-227	Total	-2.1	NA	3.7	NA
RD-59C	SORD-59C-GW041811	Ac-228	Filtered	5.5	3.8	1.2	1.8
RD-59C	SORD-59C-GW041811	Ac-228	Suspended	-3 U	3	39	2
RD-59C	SORD-59C-GW041811	Ac-228	Total	2	NA	39	NA
RD-59C	SORD-59C-GW041811	Ag-108	Filtered	-0.02 U R	0.091	0.027	0.043
RD-59C	SORD-59C-GW041811	Ag-108	Suspended	0.018 U R	0.043	0.013	0.02
RD-59C	SORD-59C-GW041811	Ag-108	Total	-0.002 R	NA	0.03	NA
RD-59C	SORD-59C-GW041811	Ag-108m	Filtered	-0.22 U R	0.98	0.29	0.46
RD-59C	SORD-59C-GW041811	Ag-108m	Suspended	0.19 U R	0.46	0.14	0.22
RD-59C	SORD-59C-GW041811	Ag-108m	Total	-0.02 R	NA	0.32	NA
RD-59C	SORD-59C-GW041811	Ba-133	Filtered	-2.8 U R	12	3.6	5.8
RD-59C	SORD-59C-GW041811	Ba-133	Suspended	0.3 U R	5.2	1.5	2.5
RD-59C	SORD-59C-GW041811	Ba-133	Total	-2.5 R	NA	3.9	NA
RD-59C	SORD-59C-GW041811	Ba-137m	Filtered	0.007 U	1.2	0.33	0.55
RD-59C	SORD-59C-GW041811	Ba-137m	Suspended	0.25 U	0.66	0.2	0.31
RD-59C	SORD-59C-GW041811	Ba-137m	Total	0.26	NA	0.39	NA
RD-59C	SORD-59C-GW041811	Bi-212	Filtered	4.2 U	9.5	2.9	4.5
RD-59C	SORD-59C-GW041811	Bi-212	Suspended	-0.3 U	5.1	1.5	2.4
RD-59C	SORD-59C-GW041811	Bi-212	Total	3.9	NA	3.2	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59C	SORD-59C-GW041811	Bi-214	Filtered	3.35	2.5	0.91	1.2
RD-59C	SORD-59C-GW041811	Bi-214	Suspended	2.26	1.7	0.65	0.82
RD-59C	SORD-59C-GW041811	Bi-214	Total	5.6	NA	1.1	NA
RD-59C	SORD-59C-GW041811	Cd-113m	Filtered	-2800 U	15000	4300	7000
RD-59C	SORD-59C-GW041811	Cd-113m	Suspended	-600 U	7000	2100	3400
RD-59C	SORD-59C-GW041811	Cd-113m	Total	-3500	NA	4800	NA
RD-59C	SORD-59C-GW041811	Cf-249	Filtered	0.3 U R	5.7	1.7	2.7
RD-59C	SORD-59C-GW041811	Cf-249	Suspended	-0.03 U R	2.9	0.85	1.4
RD-59C	SORD-59C-GW041811	Cf-249	Total	0.3 R	NA	1.9	NA
RD-59C	SORD-59C-GW041811	Co-60	Filtered	0.03 U	1.3	0.37	0.6
RD-59C	SORD-59C-GW041811	Co-60	Suspended	0.26 U	0.66	0.2	0.3
RD-59C	SORD-59C-GW041811	Co-60	Total	0.29	NA	0.41	NA
RD-59C	SORD-59C-GW041811	Cs-134	Filtered	-0.51 U	1.4	0.41	0.65
RD-59C	SORD-59C-GW041811	Cs-134	Suspended	-0.13 U	0.75	0.22	0.36
RD-59C	SORD-59C-GW041811	Cs-134	Total	-0.64	NA	0.46	NA
RD-59C	SORD-59C-GW041811	Cs-137	Filtered	0.007 U	1.2	0.35	0.58
RD-59C	SORD-59C-GW041811	Cs-137	Suspended	0.27 U	0.7	0.21	0.33
RD-59C	SORD-59C-GW041811	Cs-137	Total	0.27	NA	0.41	NA
RD-59C	SORD-59C-GW041811	Eu-152	Filtered	0.83 U	3.2	0.95	1.5
RD-59C	SORD-59C-GW041811	Eu-152	Suspended	0.16 U	1.8	0.52	0.86
RD-59C	SORD-59C-GW041811	Eu-152	Total	1	NA	1.1	NA
RD-59C	SORD-59C-GW041811	Eu-154	Filtered	-0.6 U	9.2	2.6	4.3
RD-59C	SORD-59C-GW041811	Eu-154	Suspended	1.3 U	5.9	1.7	2.8
RD-59C	SORD-59C-GW041811	Eu-154	Total	0.7	NA	3.1	NA
RD-59C	SORD-59C-GW041811	Eu-155	Filtered	0.48 U	2.3	0.68	1.1
RD-59C	SORD-59C-GW041811	Eu-155	Suspended	-0.56 U	1.3	0.38	0.61
RD-59C	SORD-59C-GW041811	Eu-155	Total	-0.09	NA	0.78	NA
RD-59C	SORD-59C-GW041811	gross_alpha	Filtered	1.83	0.43	0.27	0.22
RD-59C	SORD-59C-GW041811	gross_alpha	Suspended	0.3	0.48	0.15	0.26
RD-59C	SORD-59C-GW041811	gross_alpha	Total	2.13	NA	0.31	NA
RD-59C	SORD-59C-GW041811	gross_beta	Filtered	2.65	2.2	0.76	1.3
RD-59C	SORD-59C-GW041811	gross_beta	Suspended	0.006 U	0.85	0.25	0.51
RD-59C	SORD-59C-GW041811	gross_beta	Total	2.66	NA	0.8	NA
RD-59C	SORD-59C-GW041811	H-3	Total	-10 U	140	42	69
RD-59C	SORD-59C-GW041811	Ho-166m	Filtered	0.4 U	1.9	0.56	0.89
RD-59C	SORD-59C-GW041811	Ho-166m	Suspended	0.29 U	0.99	0.29	0.47
RD-59C	SORD-59C-GW041811	Ho-166m	Total	0.69	NA	0.63	NA
RD-59C	SORD-59C-GW041811	K-40	Filtered	-13 U	19	23	9

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59C	SORD-59C-GW041811	K-40	Suspended	2.4 U	12	3.1	5.7
RD-59C	SORD-59C-GW041811	K-40	Total	-11	NA	23	NA
RD-59C	SORD-59C-GW041811	Na-22	Filtered	-0.1 U	1.3	0.38	0.61
RD-59C	SORD-59C-GW041811	Na-22	Suspended	-0.03 U	0.77	0.22	0.36
RD-59C	SORD-59C-GW041811	Na-22	Total	-0.13	NA	0.44	NA
RD-59C	SORD-59C-GW041811	Nb-94	Filtered	0.28 U	1.1	0.32	0.51
RD-59C	SORD-59C-GW041811	Nb-94	Suspended	0.13 U	0.61	0.18	0.29
RD-59C	SORD-59C-GW041811	Nb-94	Total	0.41	NA	0.37	NA
RD-59C	SORD-59C-GW041811	Np-236	Filtered	-0.86 U	3.1	0.92	1.5
RD-59C	SORD-59C-GW041811	Np-236	Suspended	0.23 U	1.1	0.34	0.55
RD-59C	SORD-59C-GW041811	Np-236	Total	-0.63	NA	0.98	NA
RD-59C	SORD-59C-GW041811	Np-239	Filtered	0.7 U	7.4	2.2	3.6
RD-59C	SORD-59C-GW041811	Np-239	Suspended	-1.1 U	3.8	1.1	1.9
RD-59C	SORD-59C-GW041811	Np-239	Total	-0.4	NA	2.5	NA
RD-59C	SORD-59C-GW041811	Pa-231	Filtered	-0.4 U	55	16	27
RD-59C	SORD-59C-GW041811	Pa-231	Suspended	-10.8 U	27	8.3	13
RD-59C	SORD-59C-GW041811	Pa-231	Total	-11	NA	18	NA
RD-59C	SORD-59C-GW041811	Pb-212	Filtered	-0.65 U	2.3	0.89	1.1
RD-59C	SORD-59C-GW041811	Pb-212	Suspended	-0.22 U	1.1	0.43	0.53
RD-59C	SORD-59C-GW041811	Pb-212	Total	-0.86	NA	0.99	NA
RD-59C	SORD-59C-GW041811	Pb-214	Filtered	0.06 U	2.8	0.76	1.3
RD-59C	SORD-59C-GW041811	Pb-214	Suspended	0.43 U	1.5	0.41	0.72
RD-59C	SORD-59C-GW041811	Pb-214	Total	0.49	NA	0.86	NA
RD-59C	SORD-59C-GW041811	Sb-125	Filtered	4.2 U	13	3.9	6.2
RD-59C	SORD-59C-GW041811	Sb-125	Suspended	1.1 U	5.6	1.7	2.7
RD-59C	SORD-59C-GW041811	Sb-125	Total	5.3	NA	4.2	NA
RD-59C	SORD-59C-GW041811	Sn-126	Filtered	-0.18 U	1.3	0.39	0.63
RD-59C	SORD-59C-GW041811	Sn-126	Suspended	-0.04 U	0.86	0.25	0.41
RD-59C	SORD-59C-GW041811	Sn-126	Total	-0.21	NA	0.46	NA
RD-59C	SORD-59C-GW041811	Sr-90	Filtered	0.006 U	0.071	0.021	0.04
RD-59C	SORD-59C-GW041811	Sr-90	Suspended	0.005 U	0.058	0.017	0.031
RD-59C	SORD-59C-GW041811	Sr-90	Total	0.012	NA	0.027	NA
RD-59C	SORD-59C-GW041811	Te-125m	Filtered	0.97 U	3	0.89	1.4
RD-59C	SORD-59C-GW041811	Te-125m	Suspended	0.25 U	1.3	0.39	0.63
RD-59C	SORD-59C-GW041811	Te-125m	Total	1.22	NA	0.97	NA
RD-59C	SORD-59C-GW041811	Th-231	Filtered	0 U	0.0072	0.0021	0.0055
RD-59C	SORD-59C-GW041811	Th-231	Suspended	-0.0014 U	0.02	0.0036	0.0071
RD-59C	SORD-59C-GW041811	Th-231	Total	-0.0014	NA	0.0042	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-59C	SORD-59C-GW041811	Th-234	Filtered	9.3 U	23	8.4	11
RD-59C	SORD-59C-GW041811	Th-234	Suspended	0.8 U	8.8	2.7	4.3
RD-59C	SORD-59C-GW041811	Th-234	Total	10.2	NA	8.9	NA
RD-59C	SORD-59C-GW041811	Tl-208	Filtered	0.01 U	1.4	0.45	0.65
RD-59C	SORD-59C-GW041811	Tl-208	Suspended	0.009 U	0.78	0.27	0.38
RD-59C	SORD-59C-GW041811	Tl-208	Total	0.02	NA	0.52	NA
RD-59C	SORD-59C-GW041811	Tm-171	Filtered	70 U	350	100	170
RD-59C	SORD-59C-GW041811	Tm-171	Suspended	0.6 U	120	35	58
RD-59C	SORD-59C-GW041811	Tm-171	Total	70	NA	110	NA
RD-59C	SORD-59C-GW041811	U-233/234	Filtered	0.222	0.014	0.024	0.004
RD-59C	SORD-59C-GW041811	U-233/234	Suspended	-0.001 U	0.0052	0.0043	0.004
RD-59C	SORD-59C-GW041811	U-233/234	Total	0.221	NA	0.025	NA
RD-59C	SORD-59C-GW041811	U-235/236	Filtered	0 U	0.0072	0.0021	0.0055
RD-59C	SORD-59C-GW041811	U-235/236	Suspended	-0.0014 U	0.02	0.0036	0.0071
RD-59C	SORD-59C-GW041811	U-235/236	Total	-0.0014	NA	0.0042	NA
RD-59C	SORD-59C-GW041811	U-238	Filtered	0.053	0.014	0.012	0.004
RD-59C	SORD-59C-GW041811	U-238	Suspended	-0.0052 U	0.016	0.004	0.0057
RD-59C	SORD-59C-GW041811	U-238	Total	0.048	NA	0.012	NA
RD-63	SMRD-63-GW032311	Ac-227	Filtered	0.4 U	9.9	2.9	4.8
RD-63	SMRD-63-GW032311	Ac-227	Suspended	0.06 U	4.9	1.5	2.4
RD-63	SMRD-63-GW032311	Ac-227	Total	0.4	NA	3.3	NA
RD-63	SMRD-63-GW032311	Ac-228	Filtered	3.4	3.7	1.2	1.7
RD-63	SMRD-63-GW032311	Ac-228	Suspended	1.55	1.9	0.62	0.91
RD-63	SMRD-63-GW032311	Ac-228	Total	5	NA	1.3	NA
RD-63	SMRD-63-GW032311	Ag-108	Filtered	-0.027 U	0.097	0.029	0.046
RD-63	SMRD-63-GW032311	Ag-108	Suspended	-0.018 U	0.047	0.014	0.022
RD-63	SMRD-63-GW032311	Ag-108	Total	-0.045	NA	0.032	NA
RD-63	SMRD-63-GW032311	Ag-108m	Filtered	-0.29 U	1	0.31	0.5
RD-63	SMRD-63-GW032311	Ag-108m	Suspended	-0.19 U	0.51	0.15	0.24
RD-63	SMRD-63-GW032311	Ag-108m	Total	-0.48	NA	0.35	NA
RD-63	SMRD-63-GW032311	Ba-133	Filtered	6.6	9.9	3.1	4.8
RD-63	SMRD-63-GW032311	Ba-133	Suspended	0.8 U	5.3	1.6	2.6
RD-63	SMRD-63-GW032311	Ba-133	Total	7.4	NA	3.4	NA
RD-63	SMRD-63-GW032311	Ba-137m	Filtered	0.22 U	1	0.31	0.5
RD-63	SMRD-63-GW032311	Ba-137m	Suspended	0.22 U	0.48	0.15	0.23
RD-63	SMRD-63-GW032311	Ba-137m	Total	0.44	NA	0.34	NA
RD-63	SMRD-63-GW032311	Bi-212	Filtered	-8 UL	10	120	5
RD-63	SMRD-63-GW032311	Bi-212	Suspended	4	5	1.6	2.4

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW032311	Bi-212	Total	-4	NA	120	NA
RD-63	SMRD-63-GW032311	Bi-214	Filtered	3.5	2.8	1.1	1.3
RD-63	SMRD-63-GW032311	Bi-214	Suspended	0.46 U	1.5	0.5	0.72
RD-63	SMRD-63-GW032311	Bi-214	Total	4	NA	1.2	NA
RD-63	SMRD-63-GW032311	Cd-113m	Filtered	1700 U	13000	3800	6200
RD-63	SMRD-63-GW032311	Cd-113m	Suspended	900 U	6400	1900	3100
RD-63	SMRD-63-GW032311	Cd-113m	Total	2600	NA	4300	NA
RD-63	SMRD-63-GW032311	Cf-249	Filtered	-1.1 U	5.2	1.6	2.5
RD-63	SMRD-63-GW032311	Cf-249	Suspended	1.1 U	2.6	0.8	1.3
RD-63	SMRD-63-GW032311	Cf-249	Total	0.02	NA	1.7	NA
RD-63	SMRD-63-GW032311	Co-60	Filtered	0.02 U	1.3	0.37	0.6
RD-63	SMRD-63-GW032311	Co-60	Suspended	0.009 U	0.48	0.13	0.22
RD-63	SMRD-63-GW032311	Co-60	Total	0.02	NA	0.39	NA
RD-63	SMRD-63-GW032311	Cs-134	Filtered	-0.45 U	1.3	0.39	0.63
RD-63	SMRD-63-GW032311	Cs-134	Suspended	-0.36 UL	0.72	0.22	0.35
RD-63	SMRD-63-GW032311	Cs-134	Total	-0.82	NA	0.45	NA
RD-63	SMRD-63-GW032311	Cs-137	Filtered	0.23 U	1.1	0.33	0.52
RD-63	SMRD-63-GW032311	Cs-137	Suspended	0.24	0.51	0.15	0.24
RD-63	SMRD-63-GW032311	Cs-137	Total	0.47	NA	0.36	NA
RD-63	SMRD-63-GW032311	Eu-152	Filtered	-0.4 U	3.6	1.1	1.7
RD-63	SMRD-63-GW032311	Eu-152	Suspended	-0.09 U	1.7	0.49	0.81
RD-63	SMRD-63-GW032311	Eu-152	Total	-0.5	NA	1.2	NA
RD-63	SMRD-63-GW032311	Eu-154	Filtered	-2.6 U	9.3	2.8	4.4
RD-63	SMRD-63-GW032311	Eu-154	Suspended	-0.4 U	5.1	1.5	2.4
RD-63	SMRD-63-GW032311	Eu-154	Total	-3	NA	3.1	NA
RD-63	SMRD-63-GW032311	Eu-155	Filtered	0.04 U	3	0.88	1.4
RD-63	SMRD-63-GW032311	Eu-155	Suspended	0.19 U	1	0.3	0.49
RD-63	SMRD-63-GW032311	Eu-155	Total	0.24	NA	0.93	NA
RD-63	SMRD-63-GW032311	gross_alpha	Filtered	13.4 J	0.45	1	0.24
RD-63	SMRD-63-GW032311	gross_alpha	Suspended	1.48	0.37	0.24	0.18
RD-63	SMRD-63-GW032311	gross_alpha	Total	14.9	NA	1	NA
RD-63	SMRD-63-GW032311	gross_beta	Filtered	1.65	0.79	0.31	0.47
RD-63	SMRD-63-GW032311	gross_beta	Suspended	0.77	1.1	0.38	0.66
RD-63	SMRD-63-GW032311	gross_beta	Total	3.48	NA	0.56	NA
RD-63	SMRD-63-GW032311	H-3_Total	Total	33	90	27	43
RD-63	SMRD-63-GW032311	Ho-166m	Filtered	-0.34 U	2	0.6	0.97
RD-63	SMRD-63-GW032311	Ho-166m	Suspended	0.11 U	0.97	0.28	0.46
RD-63	SMRD-63-GW032311	Ho-166m	Total	-0.23	NA	0.66	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW032311	K-40	Filtered	21.8	17	5.4	8.2
RD-63	SMRD-63-GW032311	K-40	Suspended	-0.9 U	11	2.7	5.1
RD-63	SMRD-63-GW032311	K-40	Total	20.8	NA	6.1	NA
RD-63	SMRD-63-GW032311	Na-22	Filtered	-0.21 U	1.2	0.35	0.56
RD-63	SMRD-63-GW032311	Na-22	Suspended	-0.08 U	0.65	0.19	0.3
RD-63	SMRD-63-GW032311	Na-22	Total	-0.29	NA	0.4	NA
RD-63	SMRD-63-GW032311	Nb-94	Filtered	-0.12 U	1.1	0.33	0.54
RD-63	SMRD-63-GW032311	Nb-94	Suspended	0.17 U	0.62	0.18	0.29
RD-63	SMRD-63-GW032311	Nb-94	Total	0.04	NA	0.38	NA
RD-63	SMRD-63-GW032311	Np-236	Filtered	-1.16 U	2.7	0.83	1.3
RD-63	SMRD-63-GW032311	Np-236	Suspended	-0.02 U	1.1	0.32	0.52
RD-63	SMRD-63-GW032311	Np-236	Total	-1.17	NA	0.89	NA
RD-63	SMRD-63-GW032311	Np-239	Filtered	0.8 U	7.4	2.2	3.6
RD-63	SMRD-63-GW032311	Np-239	Suspended	0.19 U	2.9	0.84	1.4
RD-63	SMRD-63-GW032311	Np-239	Total	0.9	NA	2.4	NA
RD-63	SMRD-63-GW032311	Pa-231	Filtered	9 U	51	15	25
RD-63	SMRD-63-GW032311	Pa-231	Suspended	1.8 U	26	7.5	12
RD-63	SMRD-63-GW032311	Pa-231	Total	11	NA	17	NA
RD-63	SMRD-63-GW032311	Pb-212	Filtered	0.53 U	2.3	0.69	1.1
RD-63	SMRD-63-GW032311	Pb-212	Suspended	0.53 U	1.2	0.45	0.61
RD-63	SMRD-63-GW032311	Pb-212	Total	1.06	NA	0.83	NA
RD-63	SMRD-63-GW032311	Pb-214	Filtered	2	2.6	1	1.3
RD-63	SMRD-63-GW032311	Pb-214	Suspended	1.21	1.3	0.53	0.64
RD-63	SMRD-63-GW032311	Pb-214	Total	3.2	NA	1.1	NA
RD-63	SMRD-63-GW032311	Sb-125	Filtered	-0.5 U	12	3.6	5.9
RD-63	SMRD-63-GW032311	Sb-125	Suspended	0.04 U	3.9	1.1	1.9
RD-63	SMRD-63-GW032311	Sb-125	Total	-0.5	NA	3.8	NA
RD-63	SMRD-63-GW032311	Sn-126	Filtered	0.03 U	1.3	0.38	0.62
RD-63	SMRD-63-GW032311	Sn-126	Suspended	-0.13 U	0.77	0.23	0.37
RD-63	SMRD-63-GW032311	Sn-126	Total	-0.09	NA	0.44	NA
RD-63	SMRD-63-GW032311	Sr-90	Filtered	0.068	0.12	0.036	0.06
RD-63	SMRD-63-GW032311	Sr-90	Suspended	0.02 U	0.08	0.02	0.04
RD-63	SMRD-63-GW032311	Sr-90	Total	0.08	NA	0.04	NA
RD-63	SMRD-63-GW032311	Te-125m	Filtered	-0.12 U	2.8	0.83	1.4
RD-63	SMRD-63-GW032311	Te-125m	Suspended	0.01 U	0.9	0.26	0.43
RD-63	SMRD-63-GW032311	Te-125m	Total	-0.11	NA	0.87	NA
RD-63	SMRD-63-GW032311	Th-231	Filtered	0.309	0.008	0.033	0.007
RD-63	SMRD-63-GW032311	Th-231	Suspended	0.0043 U	0.0059	0.0031	0.005

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-63	SMRD-63-GW032311	Th-231	Total	0.313	NA	0.033	NA
RD-63	SMRD-63-GW032311	Th-234	Filtered	1.4 U	23	7.8	11
RD-63	SMRD-63-GW032311	Th-234	Suspended	4	7.2	2.4	3.5
RD-63	SMRD-63-GW032311	Th-234	Total	5.4	NA	8.2	NA
RD-63	SMRD-63-GW032311	Tl-208	Filtered	0.21 U	1.4	0.51	0.67
RD-63	SMRD-63-GW032311	Tl-208	Suspended	0.27 U	0.65	0.2	0.31
RD-63	SMRD-63-GW032311	Tl-208	Total	0.48	NA	0.55	NA
RD-63	SMRD-63-GW032311	Tm-171	Filtered	80 U	350	110	170
RD-63	SMRD-63-GW032311	Tm-171	Suspended	23 U	93	28	45
RD-63	SMRD-63-GW032311	Tm-171	Total	100	NA	110	NA
RD-63	SMRD-63-GW032311	U-233/234	Filtered	5.63	0.02	0.26	0.01
RD-63	SMRD-63-GW032311	U-233/234	Suspended	0.09	0.04	0.03	0.01
RD-63	SMRD-63-GW032311	U-233/234	Total	5.72	NA	0.27	NA
RD-63	SMRD-63-GW032311	U-235/236	Filtered	0.31	0.01	0.03	0.01
RD-63	SMRD-63-GW032311	U-235/236	Suspended	0 U	0.03	0	0.01
RD-63	SMRD-63-GW032311	U-235/236	Total	0.31	NA	0.03	NA
RD-63	SMRD-63-GW032311	U-238	Filtered	5.65	0.01	0.26	0.01
RD-63	SMRD-63-GW032311	U-238	Suspended	0.06	0.02	0.02	0.01
RD-63	SMRD-63-GW032311	U-238	Total	5.7	NA	0.27	NA
RD-64	SMRD-64-GW040411	Ac-227	Filtered	0.3 U	4.5	1.3	2.2
RD-64	SMRD-64-GW040411	Ac-227	Suspended	-0.7 U	3.9	1.2	1.9
RD-64	SMRD-64-GW040411	Ac-227	Total	-0.4	NA	1.8	NA
RD-64	SMRD-64-GW040411	Ac-228	Filtered	1.84	2.1	0.68	0.99
RD-64	SMRD-64-GW040411	Ac-228	Suspended	0.63 U	2.7	0.7	1.3
RD-64	SMRD-64-GW040411	Ac-228	Total	2.46	NA	0.98	NA
RD-64	SMRD-64-GW040411	Ag-108	Filtered	0.011 U R	0.058	0.017	0.028
RD-64	SMRD-64-GW040411	Ag-108	Suspended	0.012 U R	0.053	0.016	0.025
RD-64	SMRD-64-GW040411	Ag-108	Total	0.024 R	NA	0.023	NA
RD-64	SMRD-64-GW040411	Ag-108m	Filtered	0.12 U R	0.62	0.18	0.3
RD-64	SMRD-64-GW040411	Ag-108m	Suspended	0.13 U R	0.57	0.17	0.27
RD-64	SMRD-64-GW040411	Ag-108m	Total	0.25 R	NA	0.25	NA
RD-64	SMRD-64-GW040411	Ba-133	Filtered	-2.1 U R	7.8	2.3	3.8
RD-64	SMRD-64-GW040411	Ba-133	Suspended	0.2 U R	5	1.5	2.4
RD-64	SMRD-64-GW040411	Ba-133	Total	-1.9 R	NA	2.8	NA
RD-64	SMRD-64-GW040411	Ba-137m	Filtered	-0.16 U	0.75	0.22	0.36
RD-64	SMRD-64-GW040411	Ba-137m	Suspended	-0.23 U	0.72	0.21	0.34
RD-64	SMRD-64-GW040411	Ba-137m	Total	-0.39	NA	0.31	NA
RD-64	SMRD-64-GW040411	Bi-212	Filtered	0.6 U	6	1.7	2.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-64-GW040411	Bi-212	Suspended	0.9 U	5.9	1.7	2.8
RD-64	SMRD-64-GW040411	Bi-212	Total	1.4	NA	2.4	NA
RD-64	SMRD-64-GW040411	Bi-214	Filtered	2.42	1.7	0.73	0.81
RD-64	SMRD-64-GW040411	Bi-214	Suspended	1.89	1.5	0.61	0.73
RD-64	SMRD-64-GW040411	Bi-214	Total	4.31	NA	0.95	NA
RD-64	SMRD-64-GW040411	Cd-113m	Filtered	-800 U	8700	2600	4200
RD-64	SMRD-64-GW040411	Cd-113m	Suspended	1700 U	5800	1700	2800
RD-64	SMRD-64-GW040411	Cd-113m	Total	900	NA	3100	NA
RD-64	SMRD-64-GW040411	Cf-249	Filtered	0.3 U R	3.6	1.1	1.7
RD-64	SMRD-64-GW040411	Cf-249	Suspended	-0.006 U R	2.4	0.71	1.2
RD-64	SMRD-64-GW040411	Cf-249	Total	0.3 R	NA	1.3	NA
RD-64	SMRD-64-GW040411	Co-60	Filtered	0.009 U	0.76	0.21	0.35
RD-64	SMRD-64-GW040411	Co-60	Suspended	0 U	0.96	0.28	0.46
RD-64	SMRD-64-GW040411	Co-60	Total	0.009	NA	0.35	NA
RD-64	SMRD-64-GW040411	Cs-134	Filtered	-0.22 U	0.84	0.25	0.4
RD-64	SMRD-64-GW040411	Cs-134	Suspended	-0.4 U	0.8	0.24	0.39
RD-64	SMRD-64-GW040411	Cs-134	Total	-0.62	NA	0.35	NA
RD-64	SMRD-64-GW040411	Cs-137	Filtered	-0.17 U	0.8	0.24	0.38
RD-64	SMRD-64-GW040411	Cs-137	Suspended	-0.24 U	0.76	0.23	0.36
RD-64	SMRD-64-GW040411	Cs-137	Total	-0.41	NA	0.33	NA
RD-64	SMRD-64-GW040411	Eu-152	Filtered	0.47 U	1.9	0.57	0.92
RD-64	SMRD-64-GW040411	Eu-152	Suspended	-0.44 U	1.8	0.55	0.89
RD-64	SMRD-64-GW040411	Eu-152	Total	0.03	NA	0.79	NA
RD-64	SMRD-64-GW040411	Eu-154	Filtered	1 U	5.6	1.6	2.6
RD-64	SMRD-64-GW040411	Eu-154	Suspended	0.8 U	6.2	1.8	2.9
RD-64	SMRD-64-GW040411	Eu-154	Total	1.8	NA	2.4	NA
RD-64	SMRD-64-GW040411	Eu-155	Filtered	-0.36 U	1.9	0.58	0.95
RD-64	SMRD-64-GW040411	Eu-155	Suspended	0.31 U	1.3	0.4	0.65
RD-64	SMRD-64-GW040411	Eu-155	Total	-0.06	NA	0.71	NA
RD-64	SMRD-64-GW040411	gross_alpha	Filtered	5.85	0.41	0.48	0.21
RD-64	SMRD-64-GW040411	gross_alpha	Suspended	0.34 U	0.63	0.19	0.35
RD-64	SMRD-64-GW040411	gross_alpha	Total	6.19	NA	0.52	NA
RD-64	SMRD-64-GW040411	gross_beta	Filtered	3.33	1.3	0.52	0.78
RD-64	SMRD-64-GW040411	gross_beta	Suspended	0.1 U	0.78	0.22	0.46
RD-64	SMRD-64-GW040411	gross_beta	Total	3.43	NA	0.56	NA
RD-64	SMRD-64-GW040411	H-3	Total	123	120	39	59
RD-64	SMRD-64-GW040411	Ho-166m	Filtered	0.15 U	1.2	0.34	0.55
RD-64	SMRD-64-GW040411	Ho-166m	Suspended	0.29 U	1.2	0.35	0.56

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-64-GW040411	Ho-166m	Total	0.44	NA	0.49	NA
RD-64	SMRD-64-GW040411	K-40	Filtered	11.1	12	4.1	5.7
RD-64	SMRD-64-GW040411	K-40	Suspended	-5.4 U	13	4	6
RD-64	SMRD-64-GW040411	K-40	Total	5.7	NA	5.7	NA
RD-64	SMRD-64-GW040411	Na-22	Filtered	-0.12 U	0.82	0.24	0.38
RD-64	SMRD-64-GW040411	Na-22	Suspended	0 U	0.84	0.24	0.4
RD-64	SMRD-64-GW040411	Na-22	Total	-0.12	NA	0.34	NA
RD-64	SMRD-64-GW040411	Nb-94	Filtered	-0.004 U	0.77	0.22	0.37
RD-64	SMRD-64-GW040411	Nb-94	Suspended	-0.005 U	0.63	0.18	0.3
RD-64	SMRD-64-GW040411	Nb-94	Total	-0.009	NA	0.29	NA
RD-64	SMRD-64-GW040411	Np-236	Filtered	-0.67 U	1.8	0.53	0.86
RD-64	SMRD-64-GW040411	Np-236	Suspended	0.5 U	1.1	0.34	0.54
RD-64	SMRD-64-GW040411	Np-236	Total	-0.17	NA	0.63	NA
RD-64	SMRD-64-GW040411	Np-239	Filtered	0.1 U	4.8	1.4	2.3
RD-64	SMRD-64-GW040411	Np-239	Suspended	-0.1 U	3.5	1	1.7
RD-64	SMRD-64-GW040411	Np-239	Total	-0.002	NA	1.8	NA
RD-64	SMRD-64-GW040411	Pa-231	Filtered	-2.7 U	33	9.8	16
RD-64	SMRD-64-GW040411	Pa-231	Suspended	1.4 U	25	7.4	12
RD-64	SMRD-64-GW040411	Pa-231	Total	-1	NA	12	NA
RD-64	SMRD-64-GW040411	Pb-212	Filtered	0.38 U	1.5	0.48	0.71
RD-64	SMRD-64-GW040411	Pb-212	Suspended	0.25 U	1	0.32	0.49
RD-64	SMRD-64-GW040411	Pb-212	Total	0.63	NA	0.58	NA
RD-64	SMRD-64-GW040411	Pb-214	Filtered	0.73 U	1.5	0.55	0.74
RD-64	SMRD-64-GW040411	Pb-214	Suspended	0.33 U	1.3	0.46	0.64
RD-64	SMRD-64-GW040411	Pb-214	Total	1.06	NA	0.72	NA
RD-64	SMRD-64-GW040411	Sb-125	Filtered	-0.9 U	7.6	2.3	3.7
RD-64	SMRD-64-GW040411	Sb-125	Suspended	1.3 U	5.4	1.6	2.6
RD-64	SMRD-64-GW040411	Sb-125	Total	0.5	NA	2.8	NA
RD-64	SMRD-64-GW040411	Sn-126	Filtered	-0.002 U	0.78	0.22	0.37
RD-64	SMRD-64-GW040411	Sn-126	Suspended	0.16 U	0.83	0.25	0.4
RD-64	SMRD-64-GW040411	Sn-126	Total	0.15	NA	0.33	NA
RD-64	SMRD-64-GW040411	Sr-90	Filtered	0.057	0.1	0.032	0.059
RD-64	SMRD-64-GW040411	Sr-90	Suspended	-0.012 U	0.062	0.017	0.037
RD-64	SMRD-64-GW040411	Sr-90	Total	0.044	NA	0.036	NA
RD-64	SMRD-64-GW040411	Te-125m	Filtered	-0.2 U	1.8	0.52	0.86
RD-64	SMRD-64-GW040411	Te-125m	Suspended	0.31 U	1.2	0.37	0.61
RD-64	SMRD-64-GW040411	Te-125m	Total	0.11	NA	0.64	NA
RD-64	SMRD-64-GW040411	Th-231	Filtered	0.091	0.007	0.016	0.006

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-64	SMRD-64-GW040411	Th-231	Suspended	0.0029 U	0.016	0.0039	0.005
RD-64	SMRD-64-GW040411	Th-231	Total	0.093	NA	0.016	NA
RD-64	SMRD-64-GW040411	Th-234	Filtered	-5 U	16	6.2	7.6
RD-64	SMRD-64-GW040411	Th-234	Suspended	3.3 U	8.3	2.5	4.1
RD-64	SMRD-64-GW040411	Th-234	Total	-1.8	NA	6.6	NA
RD-64	SMRD-64-GW040411	Tl-208	Filtered	0.34 U	0.85	0.29	0.41
RD-64	SMRD-64-GW040411	Tl-208	Suspended	0.25 U	0.74	0.26	0.36
RD-64	SMRD-64-GW040411	Tl-208	Total	0.59	NA	0.39	NA
RD-64	SMRD-64-GW040411	Tm-171	Filtered	83 U	230	71	110
RD-64	SMRD-64-GW040411	Tm-171	Suspended	20 U	120	35	56
RD-64	SMRD-64-GW040411	Tm-171	Total	103	NA	79	NA
RD-64	SMRD-64-GW040411	U-233/234	Filtered	2.29	0.01	0.12	0.004
RD-64	SMRD-64-GW040411	U-233/234	Suspended	0.0011 U	0.0052	0.0047	0.004
RD-64	SMRD-64-GW040411	U-233/234	Total	2.29	NA	0.12	NA
RD-64	SMRD-64-GW040411	U-235/236	Filtered	0.09	0.007	0.016	0.005
RD-64	SMRD-64-GW040411	U-235/236	Suspended	0.0029 U	0.016	0.0039	0.005
RD-64	SMRD-64-GW040411	U-235/236	Total	0.093	NA	0.016	NA
RD-64	SMRD-64-GW040411	U-238	Filtered	1.68	0.014	0.092	0.004
RD-64	SMRD-64-GW040411	U-238	Suspended	0.0057	0.0052	0.0051	0.004
RD-64	SMRD-64-GW040411	U-238	Total	1.69	NA	0.092	NA
RD-65	SMRD-65-GW040411	Ac-227	Filtered	-6.9 L U	9.8	3	4.8
RD-65	SMRD-65-GW040411	Ac-227	Suspended	-2.8 U	4.7	1.4	2.3
RD-65	SMRD-65-GW040411	Ac-227	Total	-9.8 L	NA	3.3	NA
RD-65	SMRD-65-GW040411	Ac-228	Filtered	3.2	3.3	1.1	1.6
RD-65	SMRD-65-GW040411	Ac-228	Suspended	-1 U	2.6	1.6	1.2
RD-65	SMRD-65-GW040411	Ac-228	Total	2.3	NA	1.9	NA
RD-65	SMRD-65-GW040411	Ag-108	Filtered	0.019 U R	0.084	0.025	0.04
RD-65	SMRD-65-GW040411	Ag-108	Suspended	-0.005 U R	0.051	0.015	0.024
RD-65	SMRD-65-GW040411	Ag-108	Total	0.014 R	NA	0.029	NA
RD-65	SMRD-65-GW040411	Ag-108m	Filtered	0.2 U R	0.9	0.27	0.43
RD-65	SMRD-65-GW040411	Ag-108m	Suspended	-0.05 U R	0.55	0.16	0.26
RD-65	SMRD-65-GW040411	Ag-108m	Total	0.15 R	NA	0.31	NA
RD-65	SMRD-65-GW040411	Ba-133	Filtered	0.1 U R	11	3.2	5.3
RD-65	SMRD-65-GW040411	Ba-133	Suspended	2.2 U R	5.8	1.7	2.8
RD-65	SMRD-65-GW040411	Ba-133	Total	2.3 R	NA	3.7	NA
RD-65	SMRD-65-GW040411	Ba-137m	Filtered	0.27 U	1.1	0.32	0.52
RD-65	SMRD-65-GW040411	Ba-137m	Suspended	-0.06 U	0.7	0.2	0.33
RD-65	SMRD-65-GW040411	Ba-137m	Total	0.2	NA	0.38	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW040411	Bi-212	Filtered	3.7 U	9.4	2.8	4.5
RD-65	SMRD-65-GW040411	Bi-212	Suspended	1.1 U	5.3	1.6	2.5
RD-65	SMRD-65-GW040411	Bi-212	Total	4.8	NA	3.2	NA
RD-65	SMRD-65-GW040411	Bi-214	Filtered	2	2.7	1	1.3
RD-65	SMRD-65-GW040411	Bi-214	Suspended	0.62 U	1.6	0.54	0.77
RD-65	SMRD-65-GW040411	Bi-214	Total	2.6	NA	1.2	NA
RD-65	SMRD-65-GW040411	Cd-113m	Filtered	-100 U	12000	3500	5700
RD-65	SMRD-65-GW040411	Cd-113m	Suspended	-70 U	6800	2000	3300
RD-65	SMRD-65-GW040411	Cd-113m	Total	-200	NA	4000	NA
RD-65	SMRD-65-GW040411	Cf-249	Filtered	1.8 U R	5.2	1.6	2.5
RD-65	SMRD-65-GW040411	Cf-249	Suspended	0.04 U R	3.3	0.98	1.6
RD-65	SMRD-65-GW040411	Cf-249	Total	1.8 R	NA	1.8	NA
RD-65	SMRD-65-GW040411	Co-60	Filtered	0 U	1.5	0.43	0.71
RD-65	SMRD-65-GW040411	Co-60	Suspended	0.03 U	0.78	0.22	0.36
RD-65	SMRD-65-GW040411	Co-60	Total	0.03	NA	0.48	NA
RD-65	SMRD-65-GW040411	Cs-134	Filtered	-0.26 U	1.2	0.36	0.58
RD-65	SMRD-65-GW040411	Cs-134	Suspended	0.15 U	0.79	0.24	0.38
RD-65	SMRD-65-GW040411	Cs-134	Total	-0.12	NA	0.43	NA
RD-65	SMRD-65-GW040411	Cs-137	Filtered	0.28 U	1.2	0.34	0.55
RD-65	SMRD-65-GW040411	Cs-137	Suspended	-0.07 U	0.74	0.22	0.35
RD-65	SMRD-65-GW040411	Cs-137	Total	0.22	NA	0.41	NA
RD-65	SMRD-65-GW040411	Eu-152	Filtered	-0.74 U	2.5	0.75	1.2
RD-65	SMRD-65-GW040411	Eu-152	Suspended	0.44 U	1.7	0.52	0.83
RD-65	SMRD-65-GW040411	Eu-152	Total	-0.31	NA	0.91	NA
RD-65	SMRD-65-GW040411	Eu-154	Filtered	-1.3 U	10	2.9	4.8
RD-65	SMRD-65-GW040411	Eu-154	Suspended	1.5 U	4.5	1.3	2.1
RD-65	SMRD-65-GW040411	Eu-154	Total	0.1	NA	3.2	NA
RD-65	SMRD-65-GW040411	Eu-155	Filtered	-0.76 U	2.8	0.85	1.4
RD-65	SMRD-65-GW040411	Eu-155	Suspended	0 U	1.2	0.36	0.59
RD-65	SMRD-65-GW040411	Eu-155	Total	-0.76	NA	0.93	NA
RD-65	SMRD-65-GW040411	gross_alpha	Filtered	3.14	0.35	0.33	0.18
RD-65	SMRD-65-GW040411	gross_alpha	Suspended	0.52	0.39	0.16	0.19
RD-65	SMRD-65-GW040411	gross_alpha	Total	3.66	NA	0.37	NA
RD-65	SMRD-65-GW040411	gross_beta	Filtered	4.7	1.9	0.74	1.1
RD-65	SMRD-65-GW040411	gross_beta	Suspended	0.14 U	0.75	0.22	0.44
RD-65	SMRD-65-GW040411	gross_beta	Total	4.84	NA	0.77	NA
RD-65	SMRD-65-GW040411	H-3	Total	26 U	120	35	57
RD-65	SMRD-65-GW040411	Ho-166m	Filtered	-0.009 U	1.9	0.54	0.89

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW040411	Ho-166m	Suspended	0.39 U	0.97	0.29	0.46
RD-65	SMRD-65-GW040411	Ho-166m	Total	0.38	NA	0.61	NA
RD-65	SMRD-65-GW040411	K-40	Filtered	16.9	16	4.6	7.8
RD-65	SMRD-65-GW040411	K-40	Suspended	-8.6 U	11	7.9	5.2
RD-65	SMRD-65-GW040411	K-40	Total	8.3	NA	9.1	NA
RD-65	SMRD-65-GW040411	Na-22	Filtered	0.29 U	1.1	0.31	0.49
RD-65	SMRD-65-GW040411	Na-22	Suspended	-0.19 U	0.84	0.25	0.39
RD-65	SMRD-65-GW040411	Na-22	Total	0.1	NA	0.4	NA
RD-65	SMRD-65-GW040411	Nb-94	Filtered	-0.36 U	1.1	0.34	0.54
RD-65	SMRD-65-GW040411	Nb-94	Suspended	0.13 U	0.62	0.18	0.3
RD-65	SMRD-65-GW040411	Nb-94	Total	-0.24	NA	0.38	NA
RD-65	SMRD-65-GW040411	Np-236	Filtered	-0.41 U	2.3	0.7	1.1
RD-65	SMRD-65-GW040411	Np-236	Suspended	-0.55 U	1.3	0.39	0.63
RD-65	SMRD-65-GW040411	Np-236	Total	-0.96	NA	0.8	NA
RD-65	SMRD-65-GW040411	Np-239	Filtered	0.08 U	6.2	1.8	3
RD-65	SMRD-65-GW040411	Np-239	Suspended	-0.59 U	3.1	0.91	1.5
RD-65	SMRD-65-GW040411	Np-239	Total	-0.5	NA	2	NA
RD-65	SMRD-65-GW040411	Pa-231	Filtered	14 U	48	14	23
RD-65	SMRD-65-GW040411	Pa-231	Suspended	5.4 U	24	7.3	12
RD-65	SMRD-65-GW040411	Pa-231	Total	20	NA	16	NA
RD-65	SMRD-65-GW040411	Pb-212	Filtered	0.56 U	2.4	0.79	1.1
RD-65	SMRD-65-GW040411	Pb-212	Suspended	0.86	1.1	0.37	0.53
RD-65	SMRD-65-GW040411	Pb-212	Total	1.42	NA	0.87	NA
RD-65	SMRD-65-GW040411	Pb-214	Filtered	0.74 U	2.3	0.84	1.1
RD-65	SMRD-65-GW040411	Pb-214	Suspended	0.76	1.5	0.58	0.73
RD-65	SMRD-65-GW040411	Pb-214	Total	1.5	NA	1	NA
RD-65	SMRD-65-GW040411	Sb-125	Filtered	-1.6 U	11	3.4	5.6
RD-65	SMRD-65-GW040411	Sb-125	Suspended	1.5 U	5.4	1.6	2.6
RD-65	SMRD-65-GW040411	Sb-125	Total	-0.1	NA	3.8	NA
RD-65	SMRD-65-GW040411	Sn-126	Filtered	0.23 U	1	0.3	0.49
RD-65	SMRD-65-GW040411	Sn-126	Suspended	0.16 U	0.75	0.22	0.36
RD-65	SMRD-65-GW040411	Sn-126	Total	0.39	NA	0.38	NA
RD-65	SMRD-65-GW040411	Sr-90	Filtered	0.054	0.11	0.033	0.06
RD-65	SMRD-65-GW040411	Sr-90	Suspended	0.024 U	0.061	0.019	0.035
RD-65	SMRD-65-GW040411	Sr-90	Total	0.079	NA	0.037	NA
RD-65	SMRD-65-GW040411	Te-125m	Filtered	-0.38 U	2.6	0.78	1.3
RD-65	SMRD-65-GW040411	Te-125m	Suspended	0.35 U	1.3	0.38	0.61
RD-65	SMRD-65-GW040411	Te-125m	Total	-0.02	NA	0.87	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-65	SMRD-65-GW040411	Th-231	Filtered	0.06	0.018	0.013	0.006
RD-65	SMRD-65-GW040411	Th-231	Suspended	0.0087	0.0079	0.005	0.006
RD-65	SMRD-65-GW040411	Th-231	Total	0.069	NA	0.014	NA
RD-65	SMRD-65-GW040411	Th-234	Filtered	1.1 U	24	6.6	12
RD-65	SMRD-65-GW040411	Th-234	Suspended	4.8	7.3	2.3	3.6
RD-65	SMRD-65-GW040411	Th-234	Total	5.9	NA	7	NA
RD-65	SMRD-65-GW040411	Tl-208	Filtered	0.44 U	1.2	0.37	0.56
RD-65	SMRD-65-GW040411	Tl-208	Suspended	0.77	0.72	0.3	0.35
RD-65	SMRD-65-GW040411	Tl-208	Total	1.22	NA	0.48	NA
RD-65	SMRD-65-GW040411	Tm-171	Filtered	118 U	330	98	160
RD-65	SMRD-65-GW040411	Tm-171	Suspended	1 U	130	37	61
RD-65	SMRD-65-GW040411	Tm-171	Total	120	NA	110	NA
RD-65	SMRD-65-GW040411	U-233/234	Filtered	1.94	0.02	0.1	0.006
RD-65	SMRD-65-GW040411	U-233/234	Suspended	0.023	0.022	0.01	0.008
RD-65	SMRD-65-GW040411	U-233/234	Total	1.97	NA	0.1	NA
RD-65	SMRD-65-GW040411	U-235/236	Filtered	0.06	0.018	0.013	0.006
RD-65	SMRD-65-GW040411	U-235/236	Suspended	0.0087	0.0079	0.005	0.006
RD-65	SMRD-65-GW040411	U-235/236	Total	0.068	NA	0.014	NA
RD-65	SMRD-65-GW040411	U-238	Filtered	1.19	0.014	0.071	0.004
RD-65	SMRD-65-GW040411	U-238	Suspended	0.0163	0.019	0.0085	0.0068
RD-65	SMRD-65-GW040411	U-238	Total	1.2	NA	0.072	NA
RD-68A	SORD-68A-GW041811	Ac-227	Filtered	-6.7 L U	9.7	3	4.7
RD-68A	SORD-68A-GW041811	Ac-227	Suspended	4.54	2.2	0.77	1
RD-68A	SORD-68A-GW041811	Ac-227	Total	-2.2	NA	3.1	NA
RD-68A	SORD-68A-GW041811	Ac-228	Filtered	3.6	3.4	1.1	1.6
RD-68A	SORD-68A-GW041811	Ac-228	Suspended	-0.44 U	2.9	0.96	1.4
RD-68A	SORD-68A-GW041811	Ac-228	Total	3.2	NA	1.5	NA
RD-68A	SORD-68A-GW041811	Ag-108	Filtered	0.018 U R	0.082	0.024	0.039
RD-68A	SORD-68A-GW041811	Ag-108	Suspended	0.014 U R	0.044	0.013	0.021
RD-68A	SORD-68A-GW041811	Ag-108	Total	0.032 R	NA	0.028	NA
RD-68A	SORD-68A-GW041811	Ag-108m	Filtered	0.2 U R	0.88	0.26	0.42
RD-68A	SORD-68A-GW041811	Ag-108m	Suspended	0.15 U R	0.48	0.14	0.23
RD-68A	SORD-68A-GW041811	Ag-108m	Total	0.35 R	NA	0.3	NA
RD-68A	SORD-68A-GW041811	Ba-133	Filtered	0 U R	11	3.2	5.2
RD-68A	SORD-68A-GW041811	Ba-133	Suspended	0 U R	5.8	1.7	2.8
RD-68A	SORD-68A-GW041811	Ba-133	Total	0 R	NA	3.6	NA
RD-68A	SORD-68A-GW041811	Ba-137m	Filtered	-0.003 U	1	0.3	0.49
RD-68A	SORD-68A-GW041811	Ba-137m	Suspended	-0.02 U	0.6	0.17	0.28

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68A	SORD-68A-GW041811	Ba-137m	Total	-0.02	NA	0.34	NA
RD-68A	SORD-68A-GW041811	Bi-212	Filtered	-1.6 U	9.3	5.5	4.5
RD-68A	SORD-68A-GW041811	Bi-212	Suspended	0.9 U	5.7	1.7	2.7
RD-68A	SORD-68A-GW041811	Bi-212	Total	-0.7	NA	5.7	NA
RD-68A	SORD-68A-GW041811	Bi-214	Filtered	1.2 U	2.8	1.1	1.3
RD-68A	SORD-68A-GW041811	Bi-214	Suspended	1.59	1.7	0.68	0.8
RD-68A	SORD-68A-GW041811	Bi-214	Total	2.7	NA	1.3	NA
RD-68A	SORD-68A-GW041811	Cd-113m	Filtered	-2300 U	14000	4100	6700
RD-68A	SORD-68A-GW041811	Cd-113m	Suspended	200 U	6900	2000	3300
RD-68A	SORD-68A-GW041811	Cd-113m	Total	-2100	NA	4600	NA
RD-68A	SORD-68A-GW041811	Cf-249	Filtered	2.3 R	4.8	1.5	2.3
RD-68A	SORD-68A-GW041811	Cf-249	Suspended	1.18 U R	2.9	0.87	1.4
RD-68A	SORD-68A-GW041811	Cf-249	Total	3.5 R	NA	1.7	NA
RD-68A	SORD-68A-GW041811	Co-60	Filtered	-0.1 U	1.1	0.32	0.52
RD-68A	SORD-68A-GW041811	Co-60	Suspended	-0.09 U	0.79	0.23	0.37
RD-68A	SORD-68A-GW041811	Co-60	Total	-0.2	NA	0.39	NA
RD-68A	SORD-68A-GW041811	Cs-134	Filtered	-0.06 U	0.91	0.26	0.43
RD-68A	SORD-68A-GW041811	Cs-134	Suspended	0.23 SK	0.49	0.15	0.23
RD-68A	SORD-68A-GW041811	Cs-134	Total	0.17	NA	0.3	NA
RD-68A	SORD-68A-GW041811	Cs-137	Filtered	-0.003 U	1.1	0.31	0.51
RD-68A	SORD-68A-GW041811	Cs-137	Suspended	-0.02 U	0.63	0.18	0.3
RD-68A	SORD-68A-GW041811	Cs-137	Total	-0.02	NA	0.36	NA
RD-68A	SORD-68A-GW041811	Eu-152	Filtered	0.69 U	3.1	0.92	1.5
RD-68A	SORD-68A-GW041811	Eu-152	Suspended	0 U	1.8	0.52	0.86
RD-68A	SORD-68A-GW041811	Eu-152	Total	0.7	NA	1.1	NA
RD-68A	SORD-68A-GW041811	Eu-154	Filtered	1 U	9.2	2.7	4.3
RD-68A	SORD-68A-GW041811	Eu-154	Suspended	1.5 U	5.9	1.7	2.8
RD-68A	SORD-68A-GW041811	Eu-154	Total	2.6	NA	3.2	NA
RD-68A	SORD-68A-GW041811	Eu-155	Filtered	0.05 U	3	0.88	1.5
RD-68A	SORD-68A-GW041811	Eu-155	Suspended	-0.27 U	1.3	0.39	0.64
RD-68A	SORD-68A-GW041811	Eu-155	Total	-0.22	NA	0.97	NA
RD-68A	SORD-68A-GW041811	gross_alpha	Filtered	0.52	0.42	0.16	0.22
RD-68A	SORD-68A-GW041811	gross_alpha	Suspended	0.84	0.43	0.2	0.22
RD-68A	SORD-68A-GW041811	gross_alpha	Total	1.36	NA	0.26	NA
RD-68A	SORD-68A-GW041811	gross_beta	Filtered	1.76	1.8	0.58	1.1
RD-68A	SORD-68A-GW041811	gross_beta	Suspended	0.19 U	0.89	0.26	0.53
RD-68A	SORD-68A-GW041811	gross_beta	Total	1.95	NA	0.64	NA
RD-68A	SORD-68A-GW041811	H-3	Total	69 U	150	46	74

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68A	SORD-68A-GW041811	Ho-166m	Filtered	-0.7 U	2	0.6	0.96
RD-68A	SORD-68A-GW041811	Ho-166m	Suspended	0.08 U	1.2	0.35	0.58
RD-68A	SORD-68A-GW041811	Ho-166m	Total	-0.62	NA	0.7	NA
RD-68A	SORD-68A-GW041811	K-40	Filtered	-4 U	16	5.3	7.7
RD-68A	SORD-68A-GW041811	K-40	Suspended	-0.2 U	12	3.2	5.7
RD-68A	SORD-68A-GW041811	K-40	Total	-4.2	NA	6.1	NA
RD-68A	SORD-68A-GW041811	Na-22	Filtered	-0.05 U	1.2	0.33	0.55
RD-68A	SORD-68A-GW041811	Na-22	Suspended	0 U	0.97	0.28	0.46
RD-68A	SORD-68A-GW041811	Na-22	Total	-0.05	NA	0.44	NA
RD-68A	SORD-68A-GW041811	Nb-94	Filtered	0.3 U	1.1	0.33	0.53
RD-68A	SORD-68A-GW041811	Nb-94	Suspended	0.21 U	0.71	0.21	0.34
RD-68A	SORD-68A-GW041811	Nb-94	Total	0.52	NA	0.39	NA
RD-68A	SORD-68A-GW041811	Np-236	Filtered	-0.37 U	2.6	0.79	1.3
RD-68A	SORD-68A-GW041811	Np-236	Suspended	-0.42 U	1.2	0.36	0.57
RD-68A	SORD-68A-GW041811	Np-236	Total	-0.8	NA	0.86	NA
RD-68A	SORD-68A-GW041811	Np-239	Filtered	-1.8 U	7.1	2.1	3.5
RD-68A	SORD-68A-GW041811	Np-239	Suspended	-0.7 U	3.8	1.1	1.8
RD-68A	SORD-68A-GW041811	Np-239	Total	-2.5	NA	2.4	NA
RD-68A	SORD-68A-GW041811	Pa-231	Filtered	-7 U	49	15	24
RD-68A	SORD-68A-GW041811	Pa-231	Suspended	4.8 U	25	7.6	12
RD-68A	SORD-68A-GW041811	Pa-231	Total	-2	NA	16	NA
RD-68A	SORD-68A-GW041811	Pb-212	Filtered	1 U	2.5	0.86	1.2
RD-68A	SORD-68A-GW041811	Pb-212	Suspended	0.49 U	1.2	0.43	0.57
RD-68A	SORD-68A-GW041811	Pb-212	Total	1.49	NA	0.96	NA
RD-68A	SORD-68A-GW041811	Pb-214	Filtered	2.2	2.7	1.2	1.3
RD-68A	SORD-68A-GW041811	Pb-214	Suspended	1.01	1.4	0.57	0.68
RD-68A	SORD-68A-GW041811	Pb-214	Total	3.2	NA	1.3	NA
RD-68A	SORD-68A-GW041811	Sb-125	Filtered	-0.2 U	12	3.5	5.8
RD-68A	SORD-68A-GW041811	Sb-125	Suspended	2.3 U	5.3	1.6	2.6
RD-68A	SORD-68A-GW041811	Sb-125	Total	2.1	NA	3.9	NA
RD-68A	SORD-68A-GW041811	Sn-126	Filtered	0.57 U	1.2	0.38	0.59
RD-68A	SORD-68A-GW041811	Sn-126	Suspended	0.32 U	0.74	0.22	0.35
RD-68A	SORD-68A-GW041811	Sn-126	Total	0.9	NA	0.44	NA
RD-68A	SORD-68A-GW041811	Sr-90	Filtered	0.009 U	0.082	0.024	0.047
RD-68A	SORD-68A-GW041811	Sr-90	Suspended	0.001 U	0.055	0.016	0.029
RD-68A	SORD-68A-GW041811	Sr-90	Total	0.01	NA	0.029	NA
RD-68A	SORD-68A-GW041811	Te-125m	Filtered	-0.04 U	2.8	0.82	1.3
RD-68A	SORD-68A-GW041811	Te-125m	Suspended	0.53 U	1.2	0.37	0.59

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68A	SORD-68A-GW041811	Te-125m	Total	0.49	NA	0.9	NA
RD-68A	SORD-68A-GW041811	Th-231	Filtered	0.0025 U	0.0067	0.0025	0.0052
RD-68A	SORD-68A-GW041811	Th-231	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-68A	SORD-68A-GW041811	Th-231	Total	0.005	NA	0.0035	NA
RD-68A	SORD-68A-GW041811	Th-234	Filtered	0.3 U	22	7.6	11
RD-68A	SORD-68A-GW041811	Th-234	Suspended	-3.3 U	9	3.5	4.4
RD-68A	SORD-68A-GW041811	Th-234	Total	-3	NA	8.4	NA
RD-68A	SORD-68A-GW041811	Tl-208	Filtered	0.24 U	1.5	0.58	0.7
RD-68A	SORD-68A-GW041811	Tl-208	Suspended	0.42	0.76	0.29	0.37
RD-68A	SORD-68A-GW041811	Tl-208	Total	0.66	NA	0.65	NA
RD-68A	SORD-68A-GW041811	Tm-171	Filtered	90 U	350	110	170
RD-68A	SORD-68A-GW041811	Tm-171	Suspended	-8 U	120	36	59
RD-68A	SORD-68A-GW041811	Tm-171	Total	80	NA	110	NA
RD-68A	SORD-68A-GW041811	U-233/234	Filtered	0.047	0.013	0.011	0.004
RD-68A	SORD-68A-GW041811	U-233/234	Suspended	0.0093	0.0054	0.0063	0.0042
RD-68A	SORD-68A-GW041811	U-233/234	Total	0.056	NA	0.013	NA
RD-68A	SORD-68A-GW041811	U-235/236	Filtered	0.0025 U	0.0067	0.0025	0.0052
RD-68A	SORD-68A-GW041811	U-235/236	Suspended	0.0025 U	0.0067	0.0025	0.0052
RD-68A	SORD-68A-GW041811	U-235/236	Total	0.005	NA	0.0035	NA
RD-68A	SORD-68A-GW041811	U-238	Filtered	0.0251	0.013	0.0084	0.0041
RD-68A	SORD-68A-GW041811	U-238	Suspended	0.0001 U	0.0054	0.004	0.0042
RD-68A	SORD-68A-GW041811	U-238	Total	0.0252	NA	0.0093	NA
RD-68B	SORD-68B-GW041811	Ac-227	Filtered	-2.4 U	8.4	2.5	4.1
RD-68B	SORD-68B-GW041811	Ac-227	Suspended	-1.7 U	4.4	1.3	2.1
RD-68B	SORD-68B-GW041811	Ac-227	Total	-4.2	NA	2.8	NA
RD-68B	SORD-68B-GW041811	Ac-228	Filtered	2.9	3.8	1.2	1.8
RD-68B	SORD-68B-GW041811	Ac-228	Suspended	-0.7 U	2.8	1.3	1.3
RD-68B	SORD-68B-GW041811	Ac-228	Total	2.2	NA	1.8	NA
RD-68B	SORD-68B-GW041811	Ag-108	Filtered	-0.011 U R	0.099	0.029	0.047
RD-68B	SORD-68B-GW041811	Ag-108	Suspended	-0.002 U R	0.051	0.015	0.024
RD-68B	SORD-68B-GW041811	Ag-108	Total	-0.013 R	NA	0.033	NA
RD-68B	SORD-68B-GW041811	Ag-108m	Filtered	-0.12 U R	1.1	0.31	0.51
RD-68B	SORD-68B-GW041811	Ag-108m	Suspended	-0.02 U R	0.55	0.16	0.26
RD-68B	SORD-68B-GW041811	Ag-108m	Total	-0.14 R	NA	0.35	NA
RD-68B	SORD-68B-GW041811	Ba-133	Filtered	-4.6 U R	13	4	6.4
RD-68B	SORD-68B-GW041811	Ba-133	Suspended	0 U R	6.1	1.8	2.9
RD-68B	SORD-68B-GW041811	Ba-133	Total	-4.6 R	NA	4.4	NA
RD-68B	SORD-68B-GW041811	Ba-137m	Filtered	0.22 U	1.2	0.35	0.56

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68B	SORD-68B-GW041811	Ba-137m	Suspended	0.01 U	0.7	0.2	0.33
RD-68B	SORD-68B-GW041811	Ba-137m	Total	0.23	NA	0.4	NA
RD-68B	SORD-68B-GW041811	Bi-212	Filtered	2.9 U	8.9	2.7	4.2
RD-68B	SORD-68B-GW041811	Bi-212	Suspended	2.1 U	5.7	1.7	2.7
RD-68B	SORD-68B-GW041811	Bi-212	Total	5	NA	3.2	NA
RD-68B	SORD-68B-GW041811	Bi-214	Filtered	3.3	2.8	1.1	1.3
RD-68B	SORD-68B-GW041811	Bi-214	Suspended	0.97	1.8	0.67	0.85
RD-68B	SORD-68B-GW041811	Bi-214	Total	4.2	NA	1.2	NA
RD-68B	SORD-68B-GW041811	Cd-113m	Filtered	1100 U	13000	3700	6100
RD-68B	SORD-68B-GW041811	Cd-113m	Suspended	-700 U	6300	1800	3000
RD-68B	SORD-68B-GW041811	Cd-113m	Total	400	NA	4200	NA
RD-68B	SORD-68B-GW041811	Cf-249	Filtered	2.8 R	5.1	1.5	2.4
RD-68B	SORD-68B-GW041811	Cf-249	Suspended	-0.03 U R	2.7	0.8	1.3
RD-68B	SORD-68B-GW041811	Cf-249	Total	2.8 R	NA	1.7	NA
RD-68B	SORD-68B-GW041811	Co-60	Filtered	0 U	1.2	0.34	0.56
RD-68B	SORD-68B-GW041811	Co-60	Suspended	0.22 U	0.75	0.22	0.35
RD-68B	SORD-68B-GW041811	Co-60	Total	0.22	NA	0.41	NA
RD-68B	SORD-68B-GW041811	Cs-134	Filtered	0.46 U	1.1	0.32	0.5
RD-68B	SORD-68B-GW041811	Cs-134	Suspended	-0.28 U	0.8	0.24	0.38
RD-68B	SORD-68B-GW041811	Cs-134	Total	0.18	NA	0.4	NA
RD-68B	SORD-68B-GW041811	Cs-137	Filtered	0.23 U	1.3	0.37	0.6
RD-68B	SORD-68B-GW041811	Cs-137	Suspended	0.01 U	0.74	0.21	0.35
RD-68B	SORD-68B-GW041811	Cs-137	Total	0.24	NA	0.43	NA
RD-68B	SORD-68B-GW041811	Eu-152	Filtered	-0.03 U	3.1	0.91	1.5
RD-68B	SORD-68B-GW041811	Eu-152	Suspended	-0.33 U	1.9	0.56	0.92
RD-68B	SORD-68B-GW041811	Eu-152	Total	-0.4	NA	1.1	NA
RD-68B	SORD-68B-GW041811	Eu-154	Filtered	2.4 U	9.7	2.9	4.5
RD-68B	SORD-68B-GW041811	Eu-154	Suspended	-1.2 U	4.4	1.3	2
RD-68B	SORD-68B-GW041811	Eu-154	Total	1.2	NA	3.1	NA
RD-68B	SORD-68B-GW041811	Eu-155	Filtered	0.23 U	3.2	0.96	1.6
RD-68B	SORD-68B-GW041811	Eu-155	Suspended	0.19 U	1.1	0.33	0.53
RD-68B	SORD-68B-GW041811	Eu-155	Total	0.4	NA	1	NA
RD-68B	SORD-68B-GW041811	gross_alpha	Filtered	3.24	0.37	0.35	0.19
RD-68B	SORD-68B-GW041811	gross_alpha	Suspended	0.38	0.49	0.17	0.26
RD-68B	SORD-68B-GW041811	gross_alpha	Total	3.63	NA	0.39	NA
RD-68B	SORD-68B-GW041811	gross_beta	Filtered	3.14	1.3	0.5	0.75
RD-68B	SORD-68B-GW041811	gross_beta	Suspended	0.27 U	0.86	0.26	0.51
RD-68B	SORD-68B-GW041811	gross_beta	Total	3.41	NA	0.56	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68B	SORD-68B-GW041811	H-3	Total	38 U	150	45	73
RD-68B	SORD-68B-GW041811	Ho-166m	Filtered	-0.01 U	2	0.57	0.94
RD-68B	SORD-68B-GW041811	Ho-166m	Suspended	0.18 U	1.1	0.33	0.53
RD-68B	SORD-68B-GW041811	Ho-166m	Total	0.16	NA	0.66	NA
RD-68B	SORD-68B-GW041811	K-40	Filtered	3.4 U	16	4.8	7.7
RD-68B	SORD-68B-GW041811	K-40	Suspended	-2.8 U	11	3.7	5.4
RD-68B	SORD-68B-GW041811	K-40	Total	0.6	NA	6.1	NA
RD-68B	SORD-68B-GW041811	Na-22	Filtered	-0.05 U	1.3	0.37	0.61
RD-68B	SORD-68B-GW041811	Na-22	Suspended	-0.17 U	0.82	0.24	0.38
RD-68B	SORD-68B-GW041811	Na-22	Total	-0.21	NA	0.44	NA
RD-68B	SORD-68B-GW041811	Nb-94	Filtered	0.08 U	0.86	0.25	0.4
RD-68B	SORD-68B-GW041811	Nb-94	Suspended	0.1 U	0.65	0.19	0.31
RD-68B	SORD-68B-GW041811	Nb-94	Total	0.19	NA	0.31	NA
RD-68B	SORD-68B-GW041811	Np-236	Filtered	-0.52 U	3	0.9	1.5
RD-68B	SORD-68B-GW041811	Np-236	Suspended	-0.2 U	1.3	0.37	0.61
RD-68B	SORD-68B-GW041811	Np-236	Total	-0.73	NA	0.97	NA
RD-68B	SORD-68B-GW041811	Np-239	Filtered	0.07 U	7.7	2.3	3.7
RD-68B	SORD-68B-GW041811	Np-239	Suspended	0.4 U	3.7	1.1	1.8
RD-68B	SORD-68B-GW041811	Np-239	Total	0.5	NA	2.5	NA
RD-68B	SORD-68B-GW041811	Pa-231	Filtered	8 U	56	17	27
RD-68B	SORD-68B-GW041811	Pa-231	Suspended	3.9 U	27	8.1	13
RD-68B	SORD-68B-GW041811	Pa-231	Total	12	NA	19	NA
RD-68B	SORD-68B-GW041811	Pb-212	Filtered	1.19 U	2.4	0.8	1.2
RD-68B	SORD-68B-GW041811	Pb-212	Suspended	0.89	1.1	0.41	0.55
RD-68B	SORD-68B-GW041811	Pb-212	Total	2.08	NA	0.9	NA
RD-68B	SORD-68B-GW041811	Pb-214	Filtered	1.25	2.3	0.77	1.1
RD-68B	SORD-68B-GW041811	Pb-214	Suspended	1.21	1.7	0.68	0.81
RD-68B	SORD-68B-GW041811	Pb-214	Total	2.5	NA	1	NA
RD-68B	SORD-68B-GW041811	Sb-125	Filtered	-0.9 U	14	4.1	6.7
RD-68B	SORD-68B-GW041811	Sb-125	Suspended	0.7 U	5.5	1.6	2.7
RD-68B	SORD-68B-GW041811	Sb-125	Total	-0.2	NA	4.4	NA
RD-68B	SORD-68B-GW041811	Sn-126	Filtered	0.5 U	1.2	0.36	0.56
RD-68B	SORD-68B-GW041811	Sn-126	Suspended	0.44	0.78	0.24	0.37
RD-68B	SORD-68B-GW041811	Sn-126	Total	0.94	NA	0.43	NA
RD-68B	SORD-68B-GW041811	Sr-90	Filtered	0.029 U	0.065	0.02	0.037
RD-68B	SORD-68B-GW041811	Sr-90	Suspended	0.023 U	0.054	0.016	0.029
RD-68B	SORD-68B-GW041811	Sr-90	Total	0.053	NA	0.026	NA
RD-68B	SORD-68B-GW041811	Te-125m	Filtered	-0.21 U	3.2	0.94	1.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-68B	SORD-68B-GW041811	Te-125m	Suspended	0.17 U	1.3	0.38	0.62
RD-68B	SORD-68B-GW041811	Te-125m	Total	-0.04	NA	1	NA
RD-68B	SORD-68B-GW041811	Th-231	Filtered	0.0229	0.023	0.0092	0.008
RD-68B	SORD-68B-GW041811	Th-231	Suspended	-0.0021 U	0.017	0.0021	0.0054
RD-68B	SORD-68B-GW041811	Th-231	Total	0.0209	NA	0.0095	NA
RD-68B	SORD-68B-GW041811	Th-234	Filtered	1.2 U	23	8.2	11
RD-68B	SORD-68B-GW041811	Th-234	Suspended	-1.2 U	7.2	2.4	3.5
RD-68B	SORD-68B-GW041811	Th-234	Total	0.07	NA	8.5	NA
RD-68B	SORD-68B-GW041811	Tl-208	Filtered	1.2	1.6	0.68	0.78
RD-68B	SORD-68B-GW041811	Tl-208	Suspended	0.05 U	0.81	0.22	0.39
RD-68B	SORD-68B-GW041811	Tl-208	Total	1.25	NA	0.72	NA
RD-68B	SORD-68B-GW041811	Tm-171	Filtered	20 U	370	110	180
RD-68B	SORD-68B-GW041811	Tm-171	Suspended	-20 U	120	37	61
RD-68B	SORD-68B-GW041811	Tm-171	Total	-2	NA	120	NA
RD-68B	SORD-68B-GW041811	U-233/234	Filtered	0.688	0.006	0.049	0.005
RD-68B	SORD-68B-GW041811	U-233/234	Suspended	0.0049 U	0.02	0.0072	0.0075
RD-68B	SORD-68B-GW041811	U-233/234	Total	0.693	NA	0.049	NA
RD-68B	SORD-68B-GW041811	U-235/236	Filtered	0.0229	0.023	0.0092	0.008
RD-68B	SORD-68B-GW041811	U-235/236	Suspended	-0.0021 U	0.017	0.0021	0.0054
RD-68B	SORD-68B-GW041811	U-235/236	Total	0.0209	NA	0.0095	NA
RD-68B	SORD-68B-GW041811	U-238	Filtered	0.42	0.006	0.035	0.005
RD-68B	SORD-68B-GW041811	U-238	Suspended	0.0152	0.014	0.0074	0.0043
RD-68B	SORD-68B-GW041811	U-238	Total	0.435	NA	0.036	NA
RD-70	SMRD-70-GW041811	Ac-227	Filtered	-5.6 U	9	2.8	4.4
RD-70	SMRD-70-GW041811	Ac-227	Suspended	-2.9 L U	4.6	1.4	2.2
RD-70	SMRD-70-GW041811	Ac-227	Total	-8.5 L	NA	3.1	NA
RD-70	SMRD-70-GW041811	Ac-228	Filtered	3.7	3.7	1.2	1.7
RD-70	SMRD-70-GW041811	Ac-228	Suspended	0.09 U	2.7	0.7	1.3
RD-70	SMRD-70-GW041811	Ac-228	Total	3.8	NA	1.4	NA
RD-70	SMRD-70-GW041811	Ag-108	Filtered	0.035 U R	0.081	0.025	0.039
RD-70	SMRD-70-GW041811	Ag-108	Suspended	0.012 U R	0.041	0.012	0.02
RD-70	SMRD-70-GW041811	Ag-108	Total	0.047 R	NA	0.027	NA
RD-70	SMRD-70-GW041811	Ag-108m	Filtered	0.38 U R	0.87	0.26	0.42
RD-70	SMRD-70-GW041811	Ag-108m	Suspended	0.13 U R	0.44	0.13	0.21
RD-70	SMRD-70-GW041811	Ag-108m	Total	0.5 R	NA	0.29	NA
RD-70	SMRD-70-GW041811	Ba-133	Filtered	-0.004 U R	12	3.4	5.7
RD-70	SMRD-70-GW041811	Ba-133	Suspended	0.2 U R	6	1.8	2.9
RD-70	SMRD-70-GW041811	Ba-133	Total	0.2 R	NA	3.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW041811	Ba-137m	Filtered	-0.54 U	1.2	0.35	0.56
RD-70	SMRD-70-GW041811	Ba-137m	Suspended	-0.19 U	0.73	0.22	0.35
RD-70	SMRD-70-GW041811	Ba-137m	Total	-0.72	NA	0.41	NA
RD-70	SMRD-70-GW041811	Bi-212	Filtered	6.6	7.2	2.3	3.4
RD-70	SMRD-70-GW041811	Bi-212	Suspended	2.4	5	1.5	2.4
RD-70	SMRD-70-GW041811	Bi-212	Total	9	NA	2.8	NA
RD-70	SMRD-70-GW041811	Bi-214	Filtered	2.7	2.6	1.1	1.2
RD-70	SMRD-70-GW041811	Bi-214	Suspended	0.86	1.6	0.59	0.79
RD-70	SMRD-70-GW041811	Bi-214	Total	3.5	NA	1.3	NA
RD-70	SMRD-70-GW041811	Cd-113m	Filtered	2400 U	13000	3800	6200
RD-70	SMRD-70-GW041811	Cd-113m	Suspended	-300 U	6200	1800	3000
RD-70	SMRD-70-GW041811	Cd-113m	Total	2100	NA	4200	NA
RD-70	SMRD-70-GW041811	Cf-249	Filtered	-0.3 U R	5.2	1.5	2.5
RD-70	SMRD-70-GW041811	Cf-249	Suspended	-0.9 U R	3.4	1	1.7
RD-70	SMRD-70-GW041811	Cf-249	Total	-1.1 R	NA	1.8	NA
RD-70	SMRD-70-GW041811	Co-60	Filtered	0.3 U	1.1	0.32	0.5
RD-70	SMRD-70-GW041811	Co-60	Suspended	0.33	0.53	0.17	0.24
RD-70	SMRD-70-GW041811	Co-60	Total	0.63	NA	0.36	NA
RD-70	SMRD-70-GW041811	Cs-134	Filtered	0 U	1.5	0.43	0.71
RD-70	SMRD-70-GW041811	Cs-134	Suspended	-0.32 U	0.75	0.23	0.36
RD-70	SMRD-70-GW041811	Cs-134	Total	-0.32	NA	0.49	NA
RD-70	SMRD-70-GW041811	Cs-137	Filtered	-0.57 U	1.2	0.37	0.59
RD-70	SMRD-70-GW041811	Cs-137	Suspended	-0.2 U	0.77	0.23	0.37
RD-70	SMRD-70-GW041811	Cs-137	Total	-0.76	NA	0.44	NA
RD-70	SMRD-70-GW041811	Eu-152	Filtered	-0.28 U	3.1	0.9	1.5
RD-70	SMRD-70-GW041811	Eu-152	Suspended	0.07 U	1.7	0.5	0.83
RD-70	SMRD-70-GW041811	Eu-152	Total	-0.2	NA	1	NA
RD-70	SMRD-70-GW041811	Eu-154	Filtered	1.2 U	8.4	2.4	3.9
RD-70	SMRD-70-GW041811	Eu-154	Suspended	0.9 U	5	1.5	2.3
RD-70	SMRD-70-GW041811	Eu-154	Total	2.1	NA	2.8	NA
RD-70	SMRD-70-GW041811	Eu-155	Filtered	0.008 U	3.3	0.97	1.6
RD-70	SMRD-70-GW041811	Eu-155	Suspended	0.22 U	1.1	0.34	0.55
RD-70	SMRD-70-GW041811	Eu-155	Total	0.2	NA	1	NA
RD-70	SMRD-70-GW041811	gross_alpha	Filtered	4.38	0.42	0.42	0.22
RD-70	SMRD-70-GW041811	gross_alpha	Suspended	0.22 U	0.5	0.15	0.27
RD-70	SMRD-70-GW041811	gross_alpha	Total	4.6	NA	0.45	NA
RD-70	SMRD-70-GW041811	gross_beta	Filtered	2.57	1.8	0.63	1.1
RD-70	SMRD-70-GW041811	gross_beta	Suspended	0.31 U	0.93	0.28	0.56

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW041811	gross_beta	Total	2.88	NA	0.69	NA
RD-70	SMRD-70-GW041811	H-3	Total	-4 U	240	69	120
RD-70	SMRD-70-GW041811	Ho-166m	Filtered	0.53 U	1.8	0.53	0.84
RD-70	SMRD-70-GW041811	Ho-166m	Suspended	0.317 U	1.2	0.08	0.56
RD-70	SMRD-70-GW041811	Ho-166m	Total	0.85	NA	0.54	NA
RD-70	SMRD-70-GW041811	K-40	Filtered	-10.8 U	19	9	9.2
RD-70	SMRD-70-GW041811	K-40	Suspended	4 U	11	3.8	5
RD-70	SMRD-70-GW041811	K-40	Total	-6.8	NA	9.8	NA
RD-70	SMRD-70-GW041811	Na-22	Filtered	-0.19 U	1.2	0.34	0.55
RD-70	SMRD-70-GW041811	Na-22	Suspended	-0.02 U	0.8	0.23	0.38
RD-70	SMRD-70-GW041811	Na-22	Total	-0.21	NA	0.41	NA
RD-70	SMRD-70-GW041811	Nb-94	Filtered	0.11 U	1.1	0.31	0.51
RD-70	SMRD-70-GW041811	Nb-94	Suspended	-0.06 U	0.59	0.17	0.28
RD-70	SMRD-70-GW041811	Nb-94	Total	0.05	NA	0.36	NA
RD-70	SMRD-70-GW041811	Np-236	Filtered	-0.03 U	2.2	0.65	1.1
RD-70	SMRD-70-GW041811	Np-236	Suspended	0.07 U	1.1	0.34	0.56
RD-70	SMRD-70-GW041811	Np-236	Total	0.05	NA	0.74	NA
RD-70	SMRD-70-GW041811	Np-239	Filtered	1.3 U	7.2	2.1	3.5
RD-70	SMRD-70-GW041811	Np-239	Suspended	-0.1 U	4.1	1.2	2
RD-70	SMRD-70-GW041811	Np-239	Total	1.2	NA	2.5	NA
RD-70	SMRD-70-GW041811	Pa-231	Filtered	16 U	51	15	25
RD-70	SMRD-70-GW041811	Pa-231	Suspended	-1.5 U	27	8.1	13
RD-70	SMRD-70-GW041811	Pa-231	Total	15	NA	17	NA
RD-70	SMRD-70-GW041811	Pb-212	Filtered	0.38 U	2.1	0.58	1
RD-70	SMRD-70-GW041811	Pb-212	Suspended	0.24 U	1.1	0.38	0.54
RD-70	SMRD-70-GW041811	Pb-212	Total	0.62	NA	0.69	NA
RD-70	SMRD-70-GW041811	Pb-214	Filtered	0.37 U	2.5	0.94	1.2
RD-70	SMRD-70-GW041811	Pb-214	Suspended	0.36 U	1.6	0.63	0.78
RD-70	SMRD-70-GW041811	Pb-214	Total	0.7	NA	1.1	NA
RD-70	SMRD-70-GW041811	Sb-125	Filtered	2.7 U	12	3.7	6
RD-70	SMRD-70-GW041811	Sb-125	Suspended	-0.2 U	5.6	1.7	2.7
RD-70	SMRD-70-GW041811	Sb-125	Total	2.5	NA	4	NA
RD-70	SMRD-70-GW041811	Sn-126	Filtered	0.26 U	1.2	0.35	0.57
RD-70	SMRD-70-GW041811	Sn-126	Suspended	0.35 U	0.75	0.23	0.36
RD-70	SMRD-70-GW041811	Sn-126	Total	0.61	NA	0.42	NA
RD-70	SMRD-70-GW041811	Sr-90	Filtered	0.016 U	0.13	0.037	0.076
RD-70	SMRD-70-GW041811	Sr-90	Suspended	0.001 U	0.062	0.018	0.033
RD-70	SMRD-70-GW041811	Sr-90	Total	0.017	NA	0.041	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-70	SMRD-70-GW041811	Te-125m	Filtered	0.62 U	2.8	0.85	1.4
RD-70	SMRD-70-GW041811	Te-125m	Suspended	-0.04 U	1.3	0.38	0.63
RD-70	SMRD-70-GW041811	Te-125m	Total	0.57	NA	0.93	NA
RD-70	SMRD-70-GW041811	Th-231	Filtered	0.067	0.007	0.013	0.005
RD-70	SMRD-70-GW041811	Th-231	Suspended	0.0029 U	0.016	0.004	0.0051
RD-70	SMRD-70-GW041811	Th-231	Total	0.07	NA	0.014	NA
RD-70	SMRD-70-GW041811	Th-234	Filtered	1.9 U	23	7.4	11
RD-70	SMRD-70-GW041811	Th-234	Suspended	-0.5 U	7.6	2.7	3.7
RD-70	SMRD-70-GW041811	Th-234	Total	1.4	NA	7.9	NA
RD-70	SMRD-70-GW041811	Tl-208	Filtered	0.26 U	1.2	0.37	0.58
RD-70	SMRD-70-GW041811	Tl-208	Suspended	0.46	0.63	0.22	0.3
RD-70	SMRD-70-GW041811	Tl-208	Total	0.72	NA	0.43	NA
RD-70	SMRD-70-GW041811	Tm-171	Filtered	90 U	340	100	170
RD-70	SMRD-70-GW041811	Tm-171	Suspended	7 U	110	34	56
RD-70	SMRD-70-GW041811	Tm-171	Total	100	NA	110	NA
RD-70	SMRD-70-GW041811	U-233/234	Filtered	1.42	0.006	0.081	0.004
RD-70	SMRD-70-GW041811	U-233/234	Suspended	0.0095	0.013	0.0067	0.0041
RD-70	SMRD-70-GW041811	U-233/234	Total	1.43	NA	0.081	NA
RD-70	SMRD-70-GW041811	U-235/236	Filtered	0.067	0.007	0.013	0.005
RD-70	SMRD-70-GW041811	U-235/236	Suspended	0.0029 U	0.016	0.004	0.0051
RD-70	SMRD-70-GW041811	U-235/236	Total	0.07	NA	0.014	NA
RD-70	SMRD-70-GW041811	U-238	Filtered	1.13	0.014	0.068	0.004
RD-70	SMRD-70-GW041811	U-238	Suspended	0.002 U	0.0053	0.0044	0.0041
RD-70	SMRD-70-GW041811	U-238	Total	1.13	NA	0.068	NA
RD-85	SMRD-85-GW031711	Ac-227	Filtered	1 U	8.5	2.5	4.1
RD-85	SMRD-85-GW031711	Ac-227	Suspended	-3.1 L U	4.5	1.4	2.2
RD-85	SMRD-85-GW031711	Ac-227	Total	-2	NA	2.9	NA
RD-85	SMRD-85-GW031711	Ac-228	Filtered	2.9	4.9	1.5	2.3
RD-85	SMRD-85-GW031711	Ac-228	Suspended	2.35	1.9	0.64	0.88
RD-85	SMRD-85-GW031711	Ac-228	Total	5.2	NA	1.7	NA
RD-85	SMRD-85-GW031711	Ag-108	Filtered	-0.012 R	0.11	0.032	0.053
RD-85	SMRD-85-GW031711	Ag-108	Suspended	0.01 R	0.038	0.011	0.018
RD-85	SMRD-85-GW031711	Ag-108	Total	-0.001 R	NA	0.034	NA
RD-85	SMRD-85-GW031711	Ag-108m	Filtered	-0.12 R	1.2	0.35	0.57
RD-85	SMRD-85-GW031711	Ag-108m	Suspended	0.11 R	0.41	0.12	0.19
RD-85	SMRD-85-GW031711	Ag-108m	Total	-0.01 R	NA	0.37	NA
RD-85	SMRD-85-GW031711	Ba-133	Filtered	-0.3 R	15	4.3	7.1
RD-85	SMRD-85-GW031711	Ba-133	Suspended	0.4 R	5.5	1.6	2.7

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-85-GW031711	Ba-133	Total	0.1 R	NA	4.6	NA
RD-85	SMRD-85-GW031711	Ba-137m	Filtered	0.7	1.4	0.43	0.67
RD-85	SMRD-85-GW031711	Ba-137m	Suspended	-0.04 U	0.64	0.19	0.31
RD-85	SMRD-85-GW031711	Ba-137m	Total	0.66	NA	0.47	NA
RD-85	SMRD-85-GW031711	Bi-212	Filtered	-10 U	15	30	7
RD-85	SMRD-85-GW031711	Bi-212	Suspended	-2 U	6	34	3
RD-85	SMRD-85-GW031711	Bi-212	Total	-13	NA	45	NA
RD-85	SMRD-85-GW031711	Bi-214	Filtered	2.5	3.2	1.2	1.5
RD-85	SMRD-85-GW031711	Bi-214	Suspended	-0.27 U	1.7	0.77	0.84
RD-85	SMRD-85-GW031711	Bi-214	Total	2.3	NA	1.4	NA
RD-85	SMRD-85-GW031711	Cd-113m	Filtered	900 U	16000	4800	7900
RD-85	SMRD-85-GW031711	Cd-113m	Suspended	1300 U	6200	1800	3000
RD-85	SMRD-85-GW031711	Cd-113m	Total	2200	NA	5200	NA
RD-85	SMRD-85-GW031711	Cf-249	Filtered	1.9 R	6.3	1.9	3
RD-85	SMRD-85-GW031711	Cf-249	Suspended	0.007 R	2.9	0.86	1.4
RD-85	SMRD-85-GW031711	Cf-249	Total	1.9 R	NA	2.1	NA
RD-85	SMRD-85-GW031711	Co-60	Filtered	0.34 U	1.5	0.42	0.65
RD-85	SMRD-85-GW031711	Co-60	Suspended	0.12 U	0.77	0.22	0.36
RD-85	SMRD-85-GW031711	Co-60	Total	0.46	NA	0.47	NA
RD-85	SMRD-85-GW031711	Cs-134	Filtered	0.23 U	1.4	0.4	0.65
RD-85	SMRD-85-GW031711	Cs-134	Suspended	0 U	0.89	0.26	0.43
RD-85	SMRD-85-GW031711	Cs-134	Total	0.23	NA	0.48	NA
RD-85	SMRD-85-GW031711	Cs-137	Filtered	0.73	1.5	0.46	0.7
RD-85	SMRD-85-GW031711	Cs-137	Suspended	-0.04 U	0.68	0.2	0.32
RD-85	SMRD-85-GW031711	Cs-137	Total	0.7	NA	0.5	NA
RD-85	SMRD-85-GW031711	Eu-152	Filtered	-0.8 U	4.2	1.2	2
RD-85	SMRD-85-GW031711	Eu-152	Suspended	-0.35 U	1.6	0.47	0.76
RD-85	SMRD-85-GW031711	Eu-152	Total	-1.2	NA	1.3	NA
RD-85	SMRD-85-GW031711	Eu-154	Filtered	0.5 U	13	3.7	6.1
RD-85	SMRD-85-GW031711	Eu-154	Suspended	-0.6 U	6.1	1.8	2.9
RD-85	SMRD-85-GW031711	Eu-154	Total	-0.08	NA	4.1	NA
RD-85	SMRD-85-GW031711	Eu-155	Filtered	-0.48 U	3.3	0.99	1.6
RD-85	SMRD-85-GW031711	Eu-155	Suspended	-0.005 U	1.2	0.35	0.57
RD-85	SMRD-85-GW031711	Eu-155	Total	-0.5	NA	1	NA
RD-85	SMRD-85-GW031711	gross_alpha	Filtered	5.63	0.52	0.51	0.28
RD-85	SMRD-85-GW031711	gross_alpha	Suspended	1.5	0.95	0.41	0.48
RD-85	SMRD-85-GW031711	gross_alpha	Total	7.14	NA	0.65	NA
RD-85	SMRD-85-GW031711	gross_beta	Filtered	5.5	3.2	1.2	1.9

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-85-GW031711	gross_beta	Suspended	0.94	0.88	0.3	0.52
RD-85	SMRD-85-GW031711	gross_beta	Total	6.4	NA	1.2	NA
RD-85	SMRD-85-GW031711	H-3	Total	13 U B	140	42	69
RD-85	SMRD-85-GW031711	Ho-166m	Filtered	0.08 U	2.1	0.59	0.97
RD-85	SMRD-85-GW031711	Ho-166m	Suspended	0.26 U	1	0.31	0.49
RD-85	SMRD-85-GW031711	Ho-166m	Total	0.34	NA	0.67	NA
RD-85	SMRD-85-GW031711	K-40	Filtered	-26 U	25	82	12
RD-85	SMRD-85-GW031711	K-40	Suspended	-1.2 U	9.5	2.8	4.5
RD-85	SMRD-85-GW031711	K-40	Total	-28	NA	82	NA
RD-85	SMRD-85-GW031711	Na-22	Filtered	0.08 U	1.5	0.41	0.66
RD-85	SMRD-85-GW031711	Na-22	Suspended	0 U	0.94	0.27	0.44
RD-85	SMRD-85-GW031711	Na-22	Total	0.08	NA	0.49	NA
RD-85	SMRD-85-GW031711	Nb-94	Filtered	0.5 SK	1.1	0.33	0.49
RD-85	SMRD-85-GW031711	Nb-94	Suspended	0.18 U	0.6	0.18	0.29
RD-85	SMRD-85-GW031711	Nb-94	Total	0.69	NA	0.37	NA
RD-85	SMRD-85-GW031711	Np-236	Filtered	-1.31 U	3.2	0.96	1.5
RD-85	SMRD-85-GW031711	Np-236	Suspended	0.25 U	1	0.31	0.5
RD-85	SMRD-85-GW031711	Np-236	Total	-1.1	NA	1	NA
RD-85	SMRD-85-GW031711	Np-239	Filtered	0.1 U	8.5	2.5	4.1
RD-85	SMRD-85-GW031711	Np-239	Suspended	0.06 U	3.6	1	1.7
RD-85	SMRD-85-GW031711	Np-239	Total	0.2	NA	2.7	NA
RD-85	SMRD-85-GW031711	Pa-231	Filtered	20 U	58	17	28
RD-85	SMRD-85-GW031711	Pa-231	Suspended	-4 U	27	8.1	13
RD-85	SMRD-85-GW031711	Pa-231	Total	16	NA	19	NA
RD-85	SMRD-85-GW031711	Pb-212	Filtered	-0.63 U	2.3	0.99	1.1
RD-85	SMRD-85-GW031711	Pb-212	Suspended	0.07 U	1.1	0.36	0.52
RD-85	SMRD-85-GW031711	Pb-212	Total	-0.6	NA	1.1	NA
RD-85	SMRD-85-GW031711	Pb-214	Filtered	-0.6 U	3.4	1.2	1.6
RD-85	SMRD-85-GW031711	Pb-214	Suspended	-0.41 U	1.6	0.78	0.76
RD-85	SMRD-85-GW031711	Pb-214	Total	-1	NA	1.4	NA
RD-85	SMRD-85-GW031711	Sb-125	Filtered	3.8 U	13	4	6.4
RD-85	SMRD-85-GW031711	Sb-125	Suspended	1.7 U	5.2	1.6	2.5
RD-85	SMRD-85-GW031711	Sb-125	Total	5.5	NA	4.3	NA
RD-85	SMRD-85-GW031711	Sn-126	Filtered	0.66	1.3	0.41	0.62
RD-85	SMRD-85-GW031711	Sn-126	Suspended	0.09 U	0.77	0.22	0.37
RD-85	SMRD-85-GW031711	Sn-126	Total	0.75	NA	0.47	NA
RD-85	SMRD-85-GW031711	Sr-90	Filtered	-0.005 U	0.12	0.035	0.07
RD-85	SMRD-85-GW031711	Sr-90	Suspended	-0.04 U	0.15	0.04	0.089

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-85	SMRD-85-GW031711	Sr-90	Total	-0.045	NA	0.053	NA
RD-85	SMRD-85-GW031711	Te-125m	Filtered	0.87 U	3.1	0.92	1.5
RD-85	SMRD-85-GW031711	Te-125m	Suspended	0.4 U	1.2	0.36	0.58
RD-85	SMRD-85-GW031711	Te-125m	Total	1.27	NA	0.99	NA
RD-85	SMRD-85-GW031711	Th-231	Filtered	0.082	0.008	0.016	0.006
RD-85	SMRD-85-GW031711	Th-231	Suspended	0 U	0.0069	0.0026	0.006
RD-85	SMRD-85-GW031711	Th-231	Total	0.082	NA	0.016	NA
RD-85	SMRD-85-GW031711	Th-234	Filtered	-7 U	25	12	12
RD-85	SMRD-85-GW031711	Th-234	Suspended	3.1 U	7.5	2.6	3.6
RD-85	SMRD-85-GW031711	Th-234	Total	-4	NA	12	NA
RD-85	SMRD-85-GW031711	Tl-208	Filtered	0.08 U	1.7	0.43	0.79
RD-85	SMRD-85-GW031711	Tl-208	Suspended	0.61	0.75	0.3	0.36
RD-85	SMRD-85-GW031711	Tl-208	Total	0.7	NA	0.53	NA
RD-85	SMRD-85-GW031711	Tm-171	Filtered	24 U	330	97	160
RD-85	SMRD-85-GW031711	Tm-171	Suspended	-45 U	120	36	57
RD-85	SMRD-85-GW031711	Tm-171	Total	-20	NA	100	NA
RD-85	SMRD-85-GW031711	U-233/234	Filtered	1.98	0.006	0.11	0.005
RD-85	SMRD-85-GW031711	U-233/234	Suspended	-0.0043 U	0.015	0.0046	0.0048
RD-85	SMRD-85-GW031711	U-233/234	Total	1.98	NA	0.11	NA
RD-85	SMRD-85-GW031711	U-235/236	Filtered	0.082	0.008	0.016	0.006
RD-85	SMRD-85-GW031711	U-235/236	Suspended	0 U	0.0069	0.0026	0.006
RD-85	SMRD-85-GW031711	U-235/236	Total	0.082	NA	0.016	NA
RD-85	SMRD-85-GW031711	U-238	Filtered	1.63	0.015	0.092	0.005
RD-85	SMRD-85-GW031711	U-238	Suspended	0.0087	0.019	0.0071	0.0068
RD-85	SMRD-85-GW031711	U-238	Total	1.64	NA	0.092	NA
RD-86	SMRD-86-GW032911	Ac-227	Filtered	-2.6 U	8.5	2.6	4.1
RD-86	SMRD-86-GW032911	Ac-227	Suspended	-2.6 U	4.4	1.3	2.1
RD-86	SMRD-86-GW032911	Ac-227	Total	-5.1	NA	2.9	NA
RD-86	SMRD-86-GW032911	Ac-228	Filtered	3.8	4.3	1.4	2
RD-86	SMRD-86-GW032911	Ac-228	Suspended	1.52	1.9	0.6	0.89
RD-86	SMRD-86-GW032911	Ac-228	Total	5.3	NA	1.5	NA
RD-86	SMRD-86-GW032911	Ag-108	Filtered	0.031 U R	0.11	0.032	0.051
RD-86	SMRD-86-GW032911	Ag-108	Suspended	0.004 U R	0.046	0.014	0.022
RD-86	SMRD-86-GW032911	Ag-108	Total	0.035 R	NA	0.035	NA
RD-86	SMRD-86-GW032911	Ag-108m	Filtered	0.33 U R	1.2	0.34	0.55
RD-86	SMRD-86-GW032911	Ag-108m	Suspended	0.04 U R	0.5	0.15	0.24
RD-86	SMRD-86-GW032911	Ag-108m	Total	0.38 R	NA	0.37	NA
RD-86	SMRD-86-GW032911	Am-241	Filtered	0.002 U	0.019	0.0045	0.0066

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-86-GW032911	Am-241	Suspended	0.0068	0.011	0.0039	0.0034
RD-86	SMRD-86-GW032911	Am-241	Total	0.0088	NA	0.006	NA
RD-86	SMRD-86-GW032911	Ba-133	Filtered	0.7 U R	13	3.8	6.3
RD-86	SMRD-86-GW032911	Ba-133	Suspended	-1.1 U R	5.6	1.7	2.7
RD-86	SMRD-86-GW032911	Ba-133	Total	-0.4 R	NA	4.2	NA
RD-86	SMRD-86-GW032911	Ba-137m	Filtered	0.52 U	1.3	0.39	0.6
RD-86	SMRD-86-GW032911	Ba-137m	Suspended	0.003 U	0.6	0.17	0.29
RD-86	SMRD-86-GW032911	Ba-137m	Total	0.52	NA	0.42	NA
RD-86	SMRD-86-GW032911	Bi-212	Filtered	2.4 U	11	3.1	4.9
RD-86	SMRD-86-GW032911	Bi-212	Suspended	2.2 U	4.9	1.5	2.3
RD-86	SMRD-86-GW032911	Bi-212	Total	4.5	NA	3.4	NA
RD-86	SMRD-86-GW032911	Bi-214	Filtered	-1.5 U	3.1	7.4	1.5
RD-86	SMRD-86-GW032911	Bi-214	Suspended	0.86	1.4	0.49	0.7
RD-86	SMRD-86-GW032911	Bi-214	Total	-0.7	NA	7.4	NA
RD-86	SMRD-86-GW032911	C-14	Total	0.24 U R	2.3	0.7	1.1
RD-86	SMRD-86-GW032911	Cd-113m	Filtered	5500 U	14000	4400	6900
RD-86	SMRD-86-GW032911	Cd-113m	Suspended	0 U	6500	1900	3100
RD-86	SMRD-86-GW032911	Cd-113m	Total	5500	NA	4700	NA
RD-86	SMRD-86-GW032911	Cf-249	Filtered	-1.2 U R	7.1	2.1	3.4
RD-86	SMRD-86-GW032911	Cf-249	Suspended	-0.03 U R	2.7	0.79	1.3
RD-86	SMRD-86-GW032911	Cf-249	Total	-1.2 R	NA	2.2	NA
RD-86	SMRD-86-GW032911	Cm-243/244	Filtered	-0.0059 U	0.03	0.0066	0.012
RD-86	SMRD-86-GW032911	Cm-243/244	Suspended	-0.0025 U	0.013	0.002	0.0047
RD-86	SMRD-86-GW032911	Cm-243/244	Total	-0.0085	NA	0.0069	NA
RD-86	SMRD-86-GW032911	Cm-245/246	Filtered	0.015 J	0.032	0.011	0.01
RD-86	SMRD-86-GW032911	Cm-245/246	Suspended	0.0168	0.019	0.0074	0.0067
RD-86	SMRD-86-GW032911	Cm-245/246	Total	0.032 J	NA	0.013	NA
RD-86	SMRD-86-GW032911	Co-60	Filtered	-0.22 U	1.5	0.41	0.66
RD-86	SMRD-86-GW032911	Co-60	Suspended	-0.03 U	0.52	0.14	0.23
RD-86	SMRD-86-GW032911	Co-60	Total	-0.24	NA	0.44	NA
RD-86	SMRD-86-GW032911	Cs-134	Filtered	0.71 SK	1.3	0.38	0.59
RD-86	SMRD-86-GW032911	Cs-134	Suspended	0.005 U	0.69	0.2	0.33
RD-86	SMRD-86-GW032911	Cs-134	Total	0.72	NA	0.43	NA
RD-86	SMRD-86-GW032911	Cs-137	Filtered	0.55 U	1.4	0.41	0.63
RD-86	SMRD-86-GW032911	Cs-137	Suspended	0.004 U	0.64	0.18	0.3
RD-86	SMRD-86-GW032911	Cs-137	Total	0.55	NA	0.45	NA
RD-86	SMRD-86-GW032911	Eu-152	Filtered	0 U	4.6	1.4	2.2
RD-86	SMRD-86-GW032911	Eu-152	Suspended	0.33 U	1.7	0.49	0.8

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-86-GW032911	Eu-152	Total	0.3	NA	1.4	NA
RD-86	SMRD-86-GW032911	Eu-154	Filtered	0 U	12	3.5	5.8
RD-86	SMRD-86-GW032911	Eu-154	Suspended	0 U	6.2	1.8	2.9
RD-86	SMRD-86-GW032911	Eu-154	Total	0	NA	3.9	NA
RD-86	SMRD-86-GW032911	Eu-155	Filtered	-0.4 U	4.8	1.4	2.3
RD-86	SMRD-86-GW032911	Eu-155	Suspended	0.3 U	1	0.31	0.5
RD-86	SMRD-86-GW032911	Eu-155	Total	-0.05	NA	1.5	NA
RD-86	SMRD-86-GW032911	gross_alpha	Filtered	5.18 J	0.57	0.52	0.3
RD-86	SMRD-86-GW032911	gross_alpha	Suspended	1.37	0.5	0.25	0.27
RD-86	SMRD-86-GW032911	gross_alpha	Total	6.55 J	NA	0.57	NA
RD-86	SMRD-86-GW032911	gross_beta	Filtered	0.74 R	1.1	0.35	0.64
RD-86	SMRD-86-GW032911	gross_beta	Suspended	3.73	0.84	0.4	0.49
RD-86	SMRD-86-GW032911	gross_beta	Total	4.47 R	NA	0.54	NA
RD-86	SMRD-86-GW032911	H-3	Total	-10 U	120	35	58
RD-86	SMRD-86-GW032911	Ho-166m	Filtered	-0.39 U	2.2	0.64	1
RD-86	SMRD-86-GW032911	Ho-166m	Suspended	0.22 U	0.78	0.23	0.36
RD-86	SMRD-86-GW032911	Ho-166m	Total	-0.17	NA	0.68	NA
RD-86	SMRD-86-GW032911	I-129	Filtered	0.007 U	0.54	0.16	0.27
RD-86	SMRD-86-GW032911	I-129	Suspended	-0.13 U	0.43	0.13	0.21
RD-86	SMRD-86-GW032911	I-129	Total	-0.12	NA	0.21	NA
RD-86	SMRD-86-GW032911	K-40	Filtered	-7 U	19	12	9
RD-86	SMRD-86-GW032911	K-40	Suspended	0.05 U	9.7	2.5	4.6
RD-86	SMRD-86-GW032911	K-40	Total	-7	NA	12	NA
RD-86	SMRD-86-GW032911	Na-22	Filtered	0.29 U	1.4	0.42	0.66
RD-86	SMRD-86-GW032911	Na-22	Suspended	-0.01 U	0.63	0.18	0.29
RD-86	SMRD-86-GW032911	Na-22	Total	0.28	NA	0.45	NA
RD-86	SMRD-86-GW032911	Nb-94	Filtered	0.08 U	1.2	0.36	0.58
RD-86	SMRD-86-GW032911	Nb-94	Suspended	0.02 U	0.56	0.16	0.27
RD-86	SMRD-86-GW032911	Nb-94	Total	0.11	NA	0.39	NA
RD-86	SMRD-86-GW032911	Np-236	Filtered	0.06 U	3.6	1.1	1.7
RD-86	SMRD-86-GW032911	Np-236	Suspended	0.02 U	1.1	0.32	0.52
RD-86	SMRD-86-GW032911	Np-236	Total	0.08	NA	1.1	NA
RD-86	SMRD-86-GW032911	Np-237	Filtered	-0.0023 U	0.026	0.0023	0.0056
RD-86	SMRD-86-GW032911	Np-237	Suspended	0 U	0.011	0.0029	0.0055
RD-86	SMRD-86-GW032911	Np-237	Total	-0.0023	NA	0.0037	NA
RD-86	SMRD-86-GW032911	Np-239	Filtered	-1.5 U	8.8	2.6	4.3
RD-86	SMRD-86-GW032911	Np-239	Suspended	0.24 U	3.4	0.99	1.6
RD-86	SMRD-86-GW032911	Np-239	Total	-1.3	NA	2.8	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-86-GW032911	Pa-231	Filtered	3 U	64	19	31
RD-86	SMRD-86-GW032911	Pa-231	Suspended	-2.2 U	26	7.6	12
RD-86	SMRD-86-GW032911	Pa-231	Total	0.7	NA	20	NA
RD-86	SMRD-86-GW032911	Pb-212	Filtered	1.93	2.3	0.94	1.1
RD-86	SMRD-86-GW032911	Pb-212	Suspended	0.58	1.1	0.36	0.55
RD-86	SMRD-86-GW032911	Pb-212	Total	2.5	NA	1	NA
RD-86	SMRD-86-GW032911	Pb-214	Filtered	1.17 U	2.8	0.83	1.3
RD-86	SMRD-86-GW032911	Pb-214	Suspended	-0.03 U	1.4	0.4	0.69
RD-86	SMRD-86-GW032911	Pb-214	Total	1.14	NA	0.92	NA
RD-86	SMRD-86-GW032911	Pu-238	Filtered	0.0192	0.018	0.0072	0.0063
RD-86	SMRD-86-GW032911	Pu-238	Suspended	0.006	0.013	0.0041	0.0039
RD-86	SMRD-86-GW032911	Pu-238	Total	0.0252	NA	0.0083	NA
RD-86	SMRD-86-GW032911	Pu-239/240	Filtered	0.0038 U	0.0052	0.0027	0.0045
RD-86	SMRD-86-GW032911	Pu-239/240	Suspended	0.0056	0.0051	0.0033	0.0044
RD-86	SMRD-86-GW032911	Pu-239/240	Total	0.0095	NA	0.0043	NA
RD-86	SMRD-86-GW032911	Pu-242	Filtered	0.0038 U	0.014	0.0038	0.0045
RD-86	SMRD-86-GW032911	Pu-242	Suspended	0.0019 U	0.0051	0.0019	0.0044
RD-86	SMRD-86-GW032911	Pu-242	Total	0.0057	NA	0.0043	NA
RD-86	SMRD-86-GW032911	Ra-226	Filtered	0.151	0.12	0.049	0.064
RD-86	SMRD-86-GW032911	Ra-226	Suspended	0.068 U	0.23	0.065	0.12
RD-86	SMRD-86-GW032911	Ra-226	Total	0.218	NA	0.082	NA
RD-86	SMRD-86-GW032911	Sb-125	Filtered	3.4 U	15	4.4	7.1
RD-86	SMRD-86-GW032911	Sb-125	Suspended	-0.1 U	5.2	1.5	2.5
RD-86	SMRD-86-GW032911	Sb-125	Total	3.3	NA	4.7	NA
RD-86	SMRD-86-GW032911	Sn-126	Filtered	-0.15 U	1.5	0.43	0.7
RD-86	SMRD-86-GW032911	Sn-126	Suspended	-0.04 U	0.69	0.2	0.33
RD-86	SMRD-86-GW032911	Sn-126	Total	-0.19	NA	0.48	NA
RD-86	SMRD-86-GW032911	Sr-90	Filtered	0.042 U	0.13	0.039	0.073
RD-86	SMRD-86-GW032911	Sr-90	Suspended	0.06	0.087	0.027	0.05
RD-86	SMRD-86-GW032911	Sr-90	Total	0.102	NA	0.047	NA
RD-86	SMRD-86-GW032911	Tc-99	Filtered	-0.2 U	1.3	0.39	0.63
RD-86	SMRD-86-GW032911	Tc-99	Suspended	0.03 U	1.5	0.43	0.71
RD-86	SMRD-86-GW032911	Tc-99	Total	-0.16	NA	0.58	NA
RD-86	SMRD-86-GW032911	Te-125m	Filtered	0.8 U	3.4	1	1.6
RD-86	SMRD-86-GW032911	Te-125m	Suspended	-0.02 U	1.2	0.36	0.59
RD-86	SMRD-86-GW032911	Te-125m	Total	0.8	NA	1.1	NA
RD-86	SMRD-86-GW032911	Th-231	Filtered	0.109	0.02	0.018	0.007
RD-86	SMRD-86-GW032911	Th-231	Suspended	0.0051 U	0.0069	0.0036	0.0053

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-86	SMRD-86-GW032911	Th-231	Total	0.115	NA	0.018	NA
RD-86	SMRD-86-GW032911	Th-234	Filtered	6 U	44	14	21
RD-86	SMRD-86-GW032911	Th-234	Suspended	2.3 U	6.8	2.2	3.3
RD-86	SMRD-86-GW032911	Th-234	Total	8	NA	15	NA
RD-86	SMRD-86-GW032911	Tl-208	Filtered	0.72	1.3	0.43	0.6
RD-86	SMRD-86-GW032911	Tl-208	Suspended	0.53	0.7	0.26	0.34
RD-86	SMRD-86-GW032911	Tl-208	Total	1.25	NA	0.5	NA
RD-86	SMRD-86-GW032911	Tm-171	Filtered	220 U	480	140	230
RD-86	SMRD-86-GW032911	Tm-171	Suspended	-4 U	100	30	50
RD-86	SMRD-86-GW032911	Tm-171	Total	220	NA	150	NA
RD-86	SMRD-86-GW032911	U-233/234	Filtered	2.41	0.005	0.12	0.004
RD-86	SMRD-86-GW032911	U-233/234	Suspended	0.079	0.014	0.014	0.004
RD-86	SMRD-86-GW032911	U-233/234	Total	2.49	NA	0.12	NA
RD-86	SMRD-86-GW032911	U-235/236	Filtered	0.109	0.02	0.018	0.007
RD-86	SMRD-86-GW032911	U-235/236	Suspended	0.0051 U	0.0069	0.0036	0.0053
RD-86	SMRD-86-GW032911	U-235/236	Total	0.115	NA	0.018	NA
RD-86	SMRD-86-GW032911	U-238	Filtered	2.33	0.01	0.12	0.004
RD-86	SMRD-86-GW032911	U-238	Suspended	0.058	0.006	0.012	0.004
RD-86	SMRD-86-GW032911	U-238	Total	2.39	NA	0.12	NA
RD-87	SMRD-87-GW031811	Ac-227	Filtered	-5.7 U	9.6	2.9	4.7
RD-87	SMRD-87-GW031811	Ac-227	Suspended	-3.6 L U	4.5	1.4	2.2
RD-87	SMRD-87-GW031811	Ac-227	Total	-9.3 L	NA	3.2	NA
RD-87	SMRD-87-GW031811	Ac-228	Filtered	3	3.7	1.2	1.7
RD-87	SMRD-87-GW031811	Ac-228	Suspended	1.39	2	0.61	0.91
RD-87	SMRD-87-GW031811	Ac-228	Total	4.4	NA	1.3	NA
RD-87	SMRD-87-GW031811	Ag-108	Filtered	-0.032 U	0.087	0.026	0.042
RD-87	SMRD-87-GW031811	Ag-108	Suspended	0.012 U	0.047	0.014	0.023
RD-87	SMRD-87-GW031811	Ag-108	Total	-0.019	NA	0.03	NA
RD-87	SMRD-87-GW031811	Ag-108m	Filtered	-0.34 U	0.94	0.28	0.45
RD-87	SMRD-87-GW031811	Ag-108m	Suspended	0.13 U	0.51	0.15	0.24
RD-87	SMRD-87-GW031811	Ag-108m	Total	-0.21	NA	0.32	NA
RD-87	SMRD-87-GW031811	Ba-133	Filtered	0.4 U	7.9	2.3	3.8
RD-87	SMRD-87-GW031811	Ba-133	Suspended	-0.1 U	6	1.8	2.9
RD-87	SMRD-87-GW031811	Ba-133	Total	0.2	NA	2.9	NA
RD-87	SMRD-87-GW031811	Ba-137m	Filtered	0.13 U	1.1	0.31	0.51
RD-87	SMRD-87-GW031811	Ba-137m	Suspended	0.3	0.57	0.17	0.27
RD-87	SMRD-87-GW031811	Ba-137m	Total	0.42	NA	0.36	NA
RD-87	SMRD-87-GW031811	Bi-212	Filtered	-1.8 U	9.7	4.2	4.6

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-87-GW031811	Bi-212	Suspended	-0.6 U	5.5	2.8	2.6
RD-87	SMRD-87-GW031811	Bi-212	Total	-2.5	NA	5.1	NA
RD-87	SMRD-87-GW031811	Bi-214	Filtered	0.57 U	2.7	0.9	1.3
RD-87	SMRD-87-GW031811	Bi-214	Suspended	-0.16 U	1.6	0.6	0.79
RD-87	SMRD-87-GW031811	Bi-214	Total	0.4	NA	1.1	NA
RD-87	SMRD-87-GW031811	Cd-113m	Filtered	300 U	13000	3900	6400
RD-87	SMRD-87-GW031811	Cd-113m	Suspended	2100 U	6400	1900	3100
RD-87	SMRD-87-GW031811	Cd-113m	Total	2400	NA	4300	NA
RD-87	SMRD-87-GW031811	Cf-249	Filtered	0.5 U	4.9	1.5	2.4
RD-87	SMRD-87-GW031811	Cf-249	Suspended	-0.24 U	2.7	0.78	1.3
RD-87	SMRD-87-GW031811	Cf-249	Total	0.3	NA	1.6	NA
RD-87	SMRD-87-GW031811	Co-60	Filtered	-0.26 U	1.2	0.36	0.57
RD-87	SMRD-87-GW031811	Co-60	Suspended	0.06 U	0.75	0.21	0.35
RD-87	SMRD-87-GW031811	Co-60	Total	-0.2	NA	0.42	NA
RD-87	SMRD-87-GW031811	Cs-134	Filtered	-0.03 U	1.7	0.51	0.83
RD-87	SMRD-87-GW031811	Cs-134	Suspended	-0.25 U	0.8	0.24	0.39
RD-87	SMRD-87-GW031811	Cs-134	Total	-0.29	NA	0.56	NA
RD-87	SMRD-87-GW031811	Cs-137	Filtered	0.14 U	1.1	0.33	0.54
RD-87	SMRD-87-GW031811	Cs-137	Suspended	0.31	0.6	0.18	0.28
RD-87	SMRD-87-GW031811	Cs-137	Total	0.45	NA	0.38	NA
RD-87	SMRD-87-GW031811	Eu-152	Filtered	-0.42 U	3.3	0.98	1.6
RD-87	SMRD-87-GW031811	Eu-152	Suspended	0.03 U	1.7	0.5	0.82
RD-87	SMRD-87-GW031811	Eu-152	Total	-0.4	NA	1.1	NA
RD-87	SMRD-87-GW031811	Eu-154	Filtered	-2.4 U	10	3	4.9
RD-87	SMRD-87-GW031811	Eu-154	Suspended	1.3 U	5.3	1.6	2.5
RD-87	SMRD-87-GW031811	Eu-154	Total	-1.2	NA	3.4	NA
RD-87	SMRD-87-GW031811	Eu-155	Filtered	0.55 U	2.8	0.82	1.3
RD-87	SMRD-87-GW031811	Eu-155	Suspended	-0.02 U	1.3	0.38	0.62
RD-87	SMRD-87-GW031811	Eu-155	Total	0.53	NA	0.9	NA
RD-87	SMRD-87-GW031811	gross_alpha	Filtered	11.9 L	0.54	0.84	0.28
RD-87	SMRD-87-GW031811	gross_alpha	Suspended	2.69	0.39	0.32	0.2
RD-87	SMRD-87-GW031811	gross_alpha	Total	14.6	NA	0.89	NA
RD-87	SMRD-87-GW031811	gross_beta	Filtered	8.3	3.4	1.4	1.9
RD-87	SMRD-87-GW031811	gross_beta	Suspended	3.69	1.1	0.48	0.61
RD-87	SMRD-87-GW031811	gross_beta	Total	12	NA	1.5	NA
RD-87	SMRD-87-GW031811	H-3	Total	5600 B	160	270	80
RD-87	SMRD-87-GW031811	Ho-166m	Filtered	0.59 U	1.7	0.51	0.8
RD-87	SMRD-87-GW031811	Ho-166m	Suspended	-0.14 U	1	0.3	0.49

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-87-GW031811	Ho-166m	Total	0.45	NA	0.59	NA
RD-87	SMRD-87-GW031811	K-40	Filtered	-3.7 U	19	5.4	9
RD-87	SMRD-87-GW031811	K-40	Suspended	0.1 U	9	2	4.2
RD-87	SMRD-87-GW031811	K-40	Total	-3.6	NA	5.7	NA
RD-87	SMRD-87-GW031811	Na-22	Filtered	0.18 U	1.2	0.33	0.54
RD-87	SMRD-87-GW031811	Na-22	Suspended	-0.03 U	0.68	0.19	0.31
RD-87	SMRD-87-GW031811	Na-22	Total	0.15	NA	0.39	NA
RD-87	SMRD-87-GW031811	Nb-94	Filtered	0.02 U	0.98	0.28	0.47
RD-87	SMRD-87-GW031811	Nb-94	Suspended	0.31	0.54	0.17	0.26
RD-87	SMRD-87-GW031811	Nb-94	Total	0.33	NA	0.33	NA
RD-87	SMRD-87-GW031811	Np-236	Filtered	-0.43 U	2.4	0.71	1.2
RD-87	SMRD-87-GW031811	Np-236	Suspended	-0.16 U	1.2	0.36	0.59
RD-87	SMRD-87-GW031811	Np-236	Total	-0.59	NA	0.8	NA
RD-87	SMRD-87-GW031811	Np-239	Filtered	0.7 U	5.5	1.6	2.6
RD-87	SMRD-87-GW031811	Np-239	Suspended	0.4 U	3.4	1	1.6
RD-87	SMRD-87-GW031811	Np-239	Total	1.2	NA	1.9	NA
RD-87	SMRD-87-GW031811	Pa-231	Filtered	-7 U	53	16	26
RD-87	SMRD-87-GW031811	Pa-231	Suspended	0 U	28	8.3	14
RD-87	SMRD-87-GW031811	Pa-231	Total	-7	NA	18	NA
RD-87	SMRD-87-GW031811	Pb-212	Filtered	0.42 U	2.3	0.77	1.1
RD-87	SMRD-87-GW031811	Pb-212	Suspended	-0.12 U	1.2	0.38	0.6
RD-87	SMRD-87-GW031811	Pb-212	Total	0.29	NA	0.86	NA
RD-87	SMRD-87-GW031811	Pb-214	Filtered	0.45 U	2.8	0.76	1.4
RD-87	SMRD-87-GW031811	Pb-214	Suspended	-0.24 U	1.4	0.54	0.69
RD-87	SMRD-87-GW031811	Pb-214	Total	0.21	NA	0.94	NA
RD-87	SMRD-87-GW031811	Sb-125	Filtered	-1.2 U	12	3.5	5.7
RD-87	SMRD-87-GW031811	Sb-125	Suspended	-1.6 U	5.4	1.6	2.6
RD-87	SMRD-87-GW031811	Sb-125	Total	-2.8	NA	3.9	NA
RD-87	SMRD-87-GW031811	Sn-126	Filtered	-0.05 U	1.4	0.41	0.67
RD-87	SMRD-87-GW031811	Sn-126	Suspended	0.23 U	0.72	0.21	0.34
RD-87	SMRD-87-GW031811	Sn-126	Total	0.18	NA	0.46	NA
RD-87	SMRD-87-GW031811	Sr-90	Filtered	0.033 U	0.19	0.055	0.11
RD-87	SMRD-87-GW031811	Sr-90	Suspended	-0.037 U	0.16	0.042	0.092
RD-87	SMRD-87-GW031811	Sr-90	Total	-0.004	NA	0.069	NA
RD-87	SMRD-87-GW031811	Te-125m	Filtered	-0.27 U	2.7	0.81	1.3
RD-87	SMRD-87-GW031811	Te-125m	Suspended	-0.37 U	1.3	0.38	0.61
RD-87	SMRD-87-GW031811	Te-125m	Total	-0.64	NA	0.89	NA
RD-87	SMRD-87-GW031811	Th-231	Filtered	0.339	0.009	0.036	0.007

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-87	SMRD-87-GW031811	Th-231	Suspended	0.0099	0.016	0.0056	0.0049
RD-87	SMRD-87-GW031811	Th-231	Total	0.349	NA	0.037	NA
RD-87	SMRD-87-GW031811	Th-234	Filtered	2.1 U	22	7.4	11
RD-87	SMRD-87-GW031811	Th-234	Suspended	-0.7 U	6.6	2.2	3.2
RD-87	SMRD-87-GW031811	Th-234	Total	1.4	NA	7.7	NA
RD-87	SMRD-87-GW031811	Tl-208	Filtered	0.51 U	1.2	0.41	0.59
RD-87	SMRD-87-GW031811	Tl-208	Suspended	-0.12 U	0.82	0.29	0.4
RD-87	SMRD-87-GW031811	Tl-208	Total	0.38	NA	0.5	NA
RD-87	SMRD-87-GW031811	Tm-171	Filtered	112 U	330	99.8	160
RD-87	SMRD-87-GW031811	Tm-171	Suspended	29 U	110	32	52
RD-87	SMRD-87-GW031811	Tm-171	Total	140	NA	100	NA
RD-87	SMRD-87-GW031811	U-233/234	Filtered	7.98	0.02	0.37	0.006
RD-87	SMRD-87-GW031811	U-233/234	Suspended	0.0269	0.016	0.009	0.0056
RD-87	SMRD-87-GW031811	U-233/234	Total	8.01	NA	0.37	NA
RD-87	SMRD-87-GW031811	U-235/236	Filtered	0.339	0.009	0.036	0.007
RD-87	SMRD-87-GW031811	U-235/236	Suspended	0.0099	0.016	0.0056	0.0049
RD-87	SMRD-87-GW031811	U-235/236	Total	0.349	NA	0.037	NA
RD-87	SMRD-87-GW031811	U-238	Filtered	7.61	0.03	0.35	0.01
RD-87	SMRD-87-GW031811	U-238	Suspended	0.0324	0.0051	0.0088	0.0039
RD-87	SMRD-87-GW031811	U-238	Total	7.65	NA	0.35	NA
RD-88	SMRD-88-GW032911	Ac-227	Filtered	-6 U	9.8	3	4.8
RD-88	SMRD-88-GW032911	Ac-227	Suspended	-0.64 U	2.9	0.87	1.4
RD-88	SMRD-88-GW032911	Ac-227	Total	-6.6 L	NA	3.1	NA
RD-88	SMRD-88-GW032911	Ac-228	Filtered	1.8	3.5	1.1	1.6
RD-88	SMRD-88-GW032911	Ac-228	Suspended	0.69 U	1.8	0.53	0.83
RD-88	SMRD-88-GW032911	Ac-228	Total	2.5	NA	1.2	NA
RD-88	SMRD-88-GW032911	Ag-108	Filtered	-0.008 U R	0.079	0.023	0.038
RD-88	SMRD-88-GW032911	Ag-108	Suspended	0.001 U R	0.044	0.013	0.021
RD-88	SMRD-88-GW032911	Ag-108	Total	-0.007 R	NA	0.026	NA
RD-88	SMRD-88-GW032911	Ag-108m	Filtered	-0.09 U R	0.85	0.25	0.4
RD-88	SMRD-88-GW032911	Ag-108m	Suspended	0.01 U R	0.48	0.14	0.23
RD-88	SMRD-88-GW032911	Ag-108m	Total	-0.07 R	NA	0.28	NA
RD-88	SMRD-88-GW032911	Ba-133	Filtered	-0.2 U R	12	3.5	5.8
RD-88	SMRD-88-GW032911	Ba-133	Suspended	-1.1 U R	4.6	1.4	2.2
RD-88	SMRD-88-GW032911	Ba-133	Total	-1.3 R	NA	3.8	NA
RD-88	SMRD-88-GW032911	Ba-137m	Filtered	0.18 U	1.1	0.32	0.52
RD-88	SMRD-88-GW032911	Ba-137m	Suspended	0.06 U	0.35	0.0998	0.16
RD-88	SMRD-88-GW032911	Ba-137m	Total	0.24	NA	0.34	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-88-GW032911	Bi-212	Filtered	0.3 U	9.3	2.6	4.4
RD-88	SMRD-88-GW032911	Bi-212	Suspended	1.2 U	3.8	1.1	1.8
RD-88	SMRD-88-GW032911	Bi-212	Total	1.4	NA	2.8	NA
RD-88	SMRD-88-GW032911	Bi-214	Filtered	1.88	2.4	0.74	1.1
RD-88	SMRD-88-GW032911	Bi-214	Suspended	1.59	1.4	0.64	0.67
RD-88	SMRD-88-GW032911	Bi-214	Total	3.46	NA	0.98	NA
RD-88	SMRD-88-GW032911	Cd-113m	Filtered	3200 U	13000	3800	6100
RD-88	SMRD-88-GW032911	Cd-113m	Suspended	1300 U	5800	1700	2800
RD-88	SMRD-88-GW032911	Cd-113m	Total	4400	NA	4200	NA
RD-88	SMRD-88-GW032911	Cf-249	Filtered	1.8 U R	4.7	1.4	2.2
RD-88	SMRD-88-GW032911	Cf-249	Suspended	0.29 U R	2.1	0.63	1
RD-88	SMRD-88-GW032911	Cf-249	Total	2.1 R	NA	1.5	NA
RD-88	SMRD-88-GW032911	Co-60	Filtered	0.17 U	1	0.29	0.47
RD-88	SMRD-88-GW032911	Co-60	Suspended	0.14 U	0.57	0.17	0.26
RD-88	SMRD-88-GW032911	Co-60	Total	0.31	NA	0.34	NA
RD-88	SMRD-88-GW032911	Cs-134	Filtered	0.21 U	1.1	0.32	0.52
RD-88	SMRD-88-GW032911	Cs-134	Suspended	0.58 SK	0.58	0.15	0.28
RD-88	SMRD-88-GW032911	Cs-134	Total	0.78 SK	NA	0.36	NA
RD-88	SMRD-88-GW032911	Cs-137	Filtered	0.19 U	1.2	0.34	0.55
RD-88	SMRD-88-GW032911	Cs-137	Suspended	0.06 U	0.37	0.11	0.17
RD-88	SMRD-88-GW032911	Cs-137	Total	0.25	NA	0.36	NA
RD-88	SMRD-88-GW032911	Eu-152	Filtered	0.37 U	3	0.9	1.5
RD-88	SMRD-88-GW032911	Eu-152	Suspended	-0.17 U	1.4	0.41	0.67
RD-88	SMRD-88-GW032911	Eu-152	Total	0.2	NA	0.99	NA
RD-88	SMRD-88-GW032911	Eu-154	Filtered	-2.4 U	9.2	2.7	4.3
RD-88	SMRD-88-GW032911	Eu-154	Suspended	-0.6 U	4.6	1.3	2.1
RD-88	SMRD-88-GW032911	Eu-154	Total	-2.9	NA	3	NA
RD-88	SMRD-88-GW032911	Eu-155	Filtered	0.54 U	2.9	0.85	1.4
RD-88	SMRD-88-GW032911	Eu-155	Suspended	0.29 U	0.9	0.27	0.43
RD-88	SMRD-88-GW032911	Eu-155	Total	0.83	NA	0.89	NA
RD-88	SMRD-88-GW032911	gross_alpha	Filtered	5.17	0.49	0.46	0.26
RD-88	SMRD-88-GW032911	gross_alpha	Suspended	0.19 U	0.84	0.23	0.45
RD-88	SMRD-88-GW032911	gross_alpha	Total	5.36	NA	0.52	NA
RD-88	SMRD-88-GW032911	gross_beta	Filtered	0.32 U	1.5	0.45	0.88
RD-88	SMRD-88-GW032911	gross_beta	Suspended	0.09 U	0.82	0.24	0.49
RD-88	SMRD-88-GW032911	gross_beta	Total	0.4	NA	0.51	NA
RD-88	SMRD-88-GW032911	H-3	Total	4040	130	200	60
RD-88	SMRD-88-GW032911	Ho-166m	Filtered	-0.02 U	2	0.58	0.95

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-88-GW032911	Ho-166m	Suspended	0.11 U	0.81	0.24	0.38
RD-88	SMRD-88-GW032911	Ho-166m	Total	0.08	NA	0.63	NA
RD-88	SMRD-88-GW032911	K-40	Filtered	14.6	15	4.9	7
RD-88	SMRD-88-GW032911	K-40	Suspended	-4.2 U	8.6	3.8	4.1
RD-88	SMRD-88-GW032911	K-40	Total	10.4	NA	6.2	NA
RD-88	SMRD-88-GW032911	Na-22	Filtered	-0.21 U	1.3	0.37	0.59
RD-88	SMRD-88-GW032911	Na-22	Suspended	0.009 U	0.6	0.17	0.28
RD-88	SMRD-88-GW032911	Na-22	Total	-0.2	NA	0.41	NA
RD-88	SMRD-88-GW032911	Nb-94	Filtered	0.24 U	1	0.3	0.48
RD-88	SMRD-88-GW032911	Nb-94	Suspended	0.12 U	0.44	0.13	0.21
RD-88	SMRD-88-GW032911	Nb-94	Total	0.36	NA	0.33	NA
RD-88	SMRD-88-GW032911	Np-236	Filtered	-0.76 U	2.6	0.79	1.3
RD-88	SMRD-88-GW032911	Np-236	Suspended	0.16 U	0.8	0.24	0.38
RD-88	SMRD-88-GW032911	Np-236	Total	-0.61	NA	0.82	NA
RD-88	SMRD-88-GW032911	Np-239	Filtered	2.1 U	6.6	2	3.2
RD-88	SMRD-88-GW032911	Np-239	Suspended	-1.12 U	3	0.91	1.5
RD-88	SMRD-88-GW032911	Np-239	Total	1	NA	2.2	NA
RD-88	SMRD-88-GW032911	Pa-231	Filtered	-8 U	51	15	25
RD-88	SMRD-88-GW032911	Pa-231	Suspended	1.7 U	20	6	9.8
RD-88	SMRD-88-GW032911	Pa-231	Total	-6	NA	16	NA
RD-88	SMRD-88-GW032911	Pb-212	Filtered	1.02 U	2.4	0.79	1.2
RD-88	SMRD-88-GW032911	Pb-212	Suspended	-0.3 U	0.88	0.8	0.43
RD-88	SMRD-88-GW032911	Pb-212	Total	0.7	NA	1.1	NA
RD-88	SMRD-88-GW032911	Pb-214	Filtered	1.28	2.2	0.72	1.1
RD-88	SMRD-88-GW032911	Pb-214	Suspended	1.01	1.1	0.44	0.52
RD-88	SMRD-88-GW032911	Pb-214	Total	2.29	NA	0.84	NA
RD-88	SMRD-88-GW032911	Sb-125	Filtered	-3.5 U	13	3.8	6.2
RD-88	SMRD-88-GW032911	Sb-125	Suspended	-1.7 U	4.7	1.4	2.3
RD-88	SMRD-88-GW032911	Sb-125	Total	-5.2	NA	4.1	NA
RD-88	SMRD-88-GW032911	Sn-126	Filtered	0 U	1.4	0.41	0.67
RD-88	SMRD-88-GW032911	Sn-126	Suspended	0.31	0.62	0.19	0.29
RD-88	SMRD-88-GW032911	Sn-126	Total	0.31	NA	0.45	NA
RD-88	SMRD-88-GW032911	Sr-90	Filtered	0.059 U	0.18	0.054	0.1
RD-88	SMRD-88-GW032911	Sr-90	Suspended	-0.017 U	0.057	0.016	0.032
RD-88	SMRD-88-GW032911	Sr-90	Total	0.042	NA	0.056	NA
RD-88	SMRD-88-GW032911	Te-125m	Filtered	-0.81 U	2.9	0.88	1.4
RD-88	SMRD-88-GW032911	Te-125m	Suspended	-0.4 U	1.1	0.33	0.53
RD-88	SMRD-88-GW032911	Te-125m	Total	-1.21	NA	0.94	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-88	SMRD-88-GW032911	Th-231	Filtered	0.113	0.007	0.017	0.006
RD-88	SMRD-88-GW032911	Th-231	Suspended	0.0051 U	0.0069	0.0036	0.0053
RD-88	SMRD-88-GW032911	Th-231	Total	0.118	NA	0.018	NA
RD-88	SMRD-88-GW032911	Th-234	Filtered	3.2 U	20	6.5	9.9
RD-88	SMRD-88-GW032911	Th-234	Suspended	0.1 U	5	1.5	2.4
RD-88	SMRD-88-GW032911	Th-234	Total	3.3	NA	6.6	NA
RD-88	SMRD-88-GW032911	Tl-208	Filtered	0.87	1.3	0.5	0.64
RD-88	SMRD-88-GW032911	Tl-208	Suspended	0.11 U	0.62	0.17	0.3
RD-88	SMRD-88-GW032911	Tl-208	Total	0.97	NA	0.53	NA
RD-88	SMRD-88-GW032911	Tm-171	Filtered	27 U	280	82	130
RD-88	SMRD-88-GW032911	Tm-171	Suspended	46	82	25	39
RD-88	SMRD-88-GW032911	Tm-171	Total	73	NA	86	NA
RD-88	SMRD-88-GW032911	U-233/234	Filtered	3.34	0.01	0.16	0.005
RD-88	SMRD-88-GW032911	U-233/234	Suspended	0.0205	0.014	0.0084	0.0043
RD-88	SMRD-88-GW032911	U-233/234	Total	3.36	NA	0.16	NA
RD-88	SMRD-88-GW032911	U-235/236	Filtered	0.113	0.007	0.017	0.006
RD-88	SMRD-88-GW032911	U-235/236	Suspended	0.0051 U	0.0069	0.0036	0.0053
RD-88	SMRD-88-GW032911	U-235/236	Total	0.118	NA	0.018	NA
RD-88	SMRD-88-GW032911	U-238	Filtered	2.81	0.01	0.14	0.005
RD-88	SMRD-88-GW032911	U-238	Suspended	0.0252	0.014	0.0086	0.0043
RD-88	SMRD-88-GW032911	U-238	Total	2.83	NA	0.14	NA
RD-90	SMRD-90-GW032911	Ac-227	Filtered	-9.1 L U	12	3.8	5.9
RD-90	SMRD-90-GW032911	Ac-227	Suspended	-0.4 U	3.6	1.1	1.8
RD-90	SMRD-90-GW032911	Ac-227	Total	-9.5 L	NA	3.9	NA
RD-90	SMRD-90-GW032911	Ac-228	Filtered	2.3	4.5	1.4	2.1
RD-90	SMRD-90-GW032911	Ac-228	Suspended	0.89 U	2.7	0.73	1.3
RD-90	SMRD-90-GW032911	Ac-228	Total	3.2	NA	1.6	NA
RD-90	SMRD-90-GW032911	Ag-108	Filtered	0.031 U R	0.12	0.034	0.055
RD-90	SMRD-90-GW032911	Ag-108	Suspended	-0.012 U R	0.054	0.016	0.026
RD-90	SMRD-90-GW032911	Ag-108	Total	0.019 R	NA	0.038	NA
RD-90	SMRD-90-GW032911	Ag-108m	Filtered	0.33 U R	1.2	0.37	0.59
RD-90	SMRD-90-GW032911	Ag-108m	Suspended	-0.13 U R	0.58	0.17	0.28
RD-90	SMRD-90-GW032911	Ag-108m	Total	0.2 R	NA	0.41	NA
RD-90	SMRD-90-GW032911	Ba-133	Filtered	3.2 U R	16	4.7	7.6
RD-90	SMRD-90-GW032911	Ba-133	Suspended	-1 U R	6.6	2	3.2
RD-90	SMRD-90-GW032911	Ba-133	Total	2.2 R	NA	5.1	NA
RD-90	SMRD-90-GW032911	Ba-137m	Filtered	0 U	1.8	0.53	0.88
RD-90	SMRD-90-GW032911	Ba-137m	Suspended	0.18 U	0.61	0.18	0.29

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-90-GW032911	Ba-137m	Total	0.18	NA	0.56	NA
RD-90	SMRD-90-GW032911	Bi-212	Filtered	-3.6 U	13	3.8	6
RD-90	SMRD-90-GW032911	Bi-212	Suspended	2.7	5.3	1.6	2.5
RD-90	SMRD-90-GW032911	Bi-212	Total	-0.9	NA	4.1	NA
RD-90	SMRD-90-GW032911	Bi-214	Filtered	2.3	3.5	1.3	1.7
RD-90	SMRD-90-GW032911	Bi-214	Suspended	0.55 U	1.6	0.58	0.79
RD-90	SMRD-90-GW032911	Bi-214	Total	2.8	NA	1.4	NA
RD-90	SMRD-90-GW032911	Cd-113m	Filtered	1200 U	17000	5000	8300
RD-90	SMRD-90-GW032911	Cd-113m	Suspended	-1500 U	6900	2100	3300
RD-90	SMRD-90-GW032911	Cd-113m	Total	-300	NA	5400	NA
RD-90	SMRD-90-GW032911	Cf-249	Filtered	1.5 U R	6.8	2	3.3
RD-90	SMRD-90-GW032911	Cf-249	Suspended	-0.94 U R	2.8	0.85	1.4
RD-90	SMRD-90-GW032911	Cf-249	Total	0.6 R	NA	2.2	NA
RD-90	SMRD-90-GW032911	Co-60	Filtered	0.13 U	1.6	0.45	0.73
RD-90	SMRD-90-GW032911	Co-60	Suspended	0.27 U	0.73	0.22	0.34
RD-90	SMRD-90-GW032911	Co-60	Total	0.39	NA	0.5	NA
RD-90	SMRD-90-GW032911	Cs-134	Filtered	0.24 U	1.4	0.4	0.64
RD-90	SMRD-90-GW032911	Cs-134	Suspended	-0.1 U	0.85	0.25	0.41
RD-90	SMRD-90-GW032911	Cs-134	Total	0.14	NA	0.47	NA
RD-90	SMRD-90-GW032911	Cs-137	Filtered	0 U	2	0.56	0.93
RD-90	SMRD-90-GW032911	Cs-137	Suspended	0.19 U	0.65	0.19	0.31
RD-90	SMRD-90-GW032911	Cs-137	Total	0.19	NA	0.6	NA
RD-90	SMRD-90-GW032911	Eu-152	Filtered	-0.7 U	4.5	1.3	2.2
RD-90	SMRD-90-GW032911	Eu-152	Suspended	-0.45 U	1.9	0.57	0.93
RD-90	SMRD-90-GW032911	Eu-152	Total	-1.2	NA	1.4	NA
RD-90	SMRD-90-GW032911	Eu-154	Filtered	1.8 U	11	3.1	4.9
RD-90	SMRD-90-GW032911	Eu-154	Suspended	1.3 U	6.1	1.8	2.9
RD-90	SMRD-90-GW032911	Eu-154	Total	3.1	NA	3.6	NA
RD-90	SMRD-90-GW032911	Eu-155	Filtered	0.4 U	4	1.2	1.9
RD-90	SMRD-90-GW032911	Eu-155	Suspended	-0.08 U	1.2	0.35	0.57
RD-90	SMRD-90-GW032911	Eu-155	Total	0.4	NA	1.2	NA
RD-90	SMRD-90-GW032911	gross_alpha	Filtered	13.7	0.47	0.87	0.25
RD-90	SMRD-90-GW032911	gross_alpha	Suspended	0.65	0.56	0.21	0.3
RD-90	SMRD-90-GW032911	gross_alpha	Total	14.4	NA	0.9	NA
RD-90	SMRD-90-GW032911	gross_beta	Filtered	9.2	3.3	1.3	1.9
RD-90	SMRD-90-GW032911	gross_beta	Suspended	1.3	0.84	0.3	0.5
RD-90	SMRD-90-GW032911	gross_beta	Total	10.5	NA	1.4	NA
RD-90	SMRD-90-GW032911	H-3	Total	54900	100	2500	70

Table D.2
Radionuclide Analytical Results
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Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-90-GW032911	Ho-166m	Filtered	-0.29 U	2.5	0.71	1.2
RD-90	SMRD-90-GW032911	Ho-166m	Suspended	-0.14 U	1.1	0.31	0.51
RD-90	SMRD-90-GW032911	Ho-166m	Total	-0.43	NA	0.78	NA
RD-90	SMRD-90-GW032911	K-40	Filtered	-5.6 U	23	8.3	11
RD-90	SMRD-90-GW032911	K-40	Suspended	-4.1 U	11	4.3	5.3
RD-90	SMRD-90-GW032911	K-40	Total	-9.7	NA	9.4	NA
RD-90	SMRD-90-GW032911	Na-22	Filtered	0.19 U	1.7	0.47	0.76
RD-90	SMRD-90-GW032911	Na-22	Suspended	0.007 U	0.72	0.2	0.33
RD-90	SMRD-90-GW032911	Na-22	Total	0.2	NA	0.51	NA
RD-90	SMRD-90-GW032911	Nb-94	Filtered	0.63	0.66	0.22	0.29
RD-90	SMRD-90-GW032911	Nb-94	Suspended	-0.21 U	0.63	0.19	0.3
RD-90	SMRD-90-GW032911	Nb-94	Total	0.42	NA	0.29	NA
RD-90	SMRD-90-GW032911	Np-236	Filtered	1.05 U	3.1	0.93	1.5
RD-90	SMRD-90-GW032911	Np-236	Suspended	-0.38 U	1.2	0.36	0.58
RD-90	SMRD-90-GW032911	Np-236	Total	0.67	NA	0.999	NA
RD-90	SMRD-90-GW032911	Np-239	Filtered	3.9 U	8.8	2.7	4.2
RD-90	SMRD-90-GW032911	Np-239	Suspended	0.2 U	3.8	1.1	1.8
RD-90	SMRD-90-GW032911	Np-239	Total	4	NA	2.9	NA
RD-90	SMRD-90-GW032911	Pa-231	Filtered	-1 U	63	18	30
RD-90	SMRD-90-GW032911	Pa-231	Suspended	-3 U	28	8.2	13
RD-90	SMRD-90-GW032911	Pa-231	Total	-4	NA	20	NA
RD-90	SMRD-90-GW032911	Pb-212	Filtered	1.35 U	2.9	0.97	1.4
RD-90	SMRD-90-GW032911	Pb-212	Suspended	-0.05 U	1.2	0.36	0.61
RD-90	SMRD-90-GW032911	Pb-212	Total	1.3	NA	1	NA
RD-90	SMRD-90-GW032911	Pb-214	Filtered	0.7 U	3.4	1.3	1.7
RD-90	SMRD-90-GW032911	Pb-214	Suspended	0.24 U	1.7	0.65	0.8
RD-90	SMRD-90-GW032911	Pb-214	Total	0.9	NA	1.4	NA
RD-90	SMRD-90-GW032911	Sb-125	Filtered	0.06 U	16	4.7	7.7
RD-90	SMRD-90-GW032911	Sb-125	Suspended	0 U	5.6	1.7	2.7
RD-90	SMRD-90-GW032911	Sb-125	Total	0.06	NA	5	NA
RD-90	SMRD-90-GW032911	Sn-126	Filtered	-0.08 U	1.5	0.44	0.72
RD-90	SMRD-90-GW032911	Sn-126	Suspended	0.24 U	0.75	0.22	0.36
RD-90	SMRD-90-GW032911	Sn-126	Total	0.16	NA	0.49	NA
RD-90	SMRD-90-GW032911	Sr-90	Filtered	0.011 U	0.2	0.057	0.11
RD-90	SMRD-90-GW032911	Sr-90	Suspended	0.076	0.07	0.023	0.04
RD-90	SMRD-90-GW032911	Sr-90	Total	0.087	NA	0.061	NA
RD-90	SMRD-90-GW032911	Te-125m	Filtered	0.01 U	3.7	1.1	1.8
RD-90	SMRD-90-GW032911	Te-125m	Suspended	0 U	1.3	0.38	0.63

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-90	SMRD-90-GW032911	Te-125m	Total	0.01	NA	1.1	NA
RD-90	SMRD-90-GW032911	Th-231	Filtered	0.48	0.018	0.04	0.006
RD-90	SMRD-90-GW032911	Th-231	Suspended	0.0005 U	0.017	0.0032	0.0053
RD-90	SMRD-90-GW032911	Th-231	Total	0.48	NA	0.04	NA
RD-90	SMRD-90-GW032911	Th-234	Filtered	-2.2 U	27	9.6	13
RD-90	SMRD-90-GW032911	Th-234	Suspended	-2.3 U	7.2	2.5	3.5
RD-90	SMRD-90-GW032911	Th-234	Total	-4.5	NA	9.9	NA
RD-90	SMRD-90-GW032911	Tl-208	Filtered	-0.12 U	1.9	0.58	0.92
RD-90	SMRD-90-GW032911	Tl-208	Suspended	0.34	0.69	0.25	0.33
RD-90	SMRD-90-GW032911	Tl-208	Total	0.22	NA	0.63	NA
RD-90	SMRD-90-GW032911	Tm-171	Filtered	-10 U	460	140	230
RD-90	SMRD-90-GW032911	Tm-171	Suspended	34 U	120	36	58
RD-90	SMRD-90-GW032911	Tm-171	Total	20	NA	140	NA
RD-90	SMRD-90-GW032911	U-233/234	Filtered	11.3	0.01	0.5	0.005
RD-90	SMRD-90-GW032911	U-233/234	Suspended	0.04	0.006	0.01	0.004
RD-90	SMRD-90-GW032911	U-233/234	Total	11.3	NA	0.5	NA
RD-90	SMRD-90-GW032911	U-235/236	Filtered	0.48	0.018	0.04	0.006
RD-90	SMRD-90-GW032911	U-235/236	Suspended	0.0005 U	0.017	0.0032	0.0053
RD-90	SMRD-90-GW032911	U-235/236	Total	0.48	NA	0.04	NA
RD-90	SMRD-90-GW032911	U-238	Filtered	9.62	0.005	0.43	0.005
RD-90	SMRD-90-GW032911	U-238	Suspended	0.0311	0.014	0.0093	0.0042
RD-90	SMRD-90-GW032911	U-238	Total	9.65	NA	0.43	NA
RD-91	SMRD-91-GW033011	Ac-227	Filtered	-5.2 U	9.5	2.9	4.7
RD-91	SMRD-91-GW033011	Ac-227	Suspended	-0.9 U	4.5	1.3	2.2
RD-91	SMRD-91-GW033011	Ac-227	Total	-6.1	NA	3.2	NA
RD-91	SMRD-91-GW033011	Ac-228	Filtered	3.4	3.6	1.2	1.7
RD-91	SMRD-91-GW033011	Ac-228	Suspended	-0.15 U	2.8	0.83	1.3
RD-91	SMRD-91-GW033011	Ac-228	Total	3.2	NA	1.4	NA
RD-91	SMRD-91-GW033011	Ag-108	Filtered	0.015 U R	0.089	0.026	0.043
RD-91	SMRD-91-GW033011	Ag-108	Suspended	0.0001 U R	0.044	0.013	0.021
RD-91	SMRD-91-GW033011	Ag-108	Total	0.015 R	NA	0.029	NA
RD-91	SMRD-91-GW033011	Ag-108m	Filtered	0.16 U R	0.96	0.28	0.46
RD-91	SMRD-91-GW033011	Ag-108m	Suspended	0.001 U R	0.47	0.14	0.22
RD-91	SMRD-91-GW033011	Ag-108m	Total	0.16 R	NA	0.31	NA
RD-91	SMRD-91-GW033011	Ba-133	Filtered	2.4 U R	9	2.7	4.3
RD-91	SMRD-91-GW033011	Ba-133	Suspended	0.2 U R	5.4	1.6	2.6
RD-91	SMRD-91-GW033011	Ba-133	Total	2.6 R	NA	3.1	NA
RD-91	SMRD-91-GW033011	Ba-137m	Filtered	-0.005 U	1	0.3	0.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-91-GW033011	Ba-137m	Suspended	0.27 U	0.66	0.2	0.32
RD-91	SMRD-91-GW033011	Ba-137m	Total	0.26	NA	0.36	NA
RD-91	SMRD-91-GW033011	Bi-212	Filtered	-0.9 U	9.2	3.9	4.4
RD-91	SMRD-91-GW033011	Bi-212	Suspended	1.8 U	6	1.8	2.9
RD-91	SMRD-91-GW033011	Bi-212	Total	0.9	NA	4.2	NA
RD-91	SMRD-91-GW033011	Bi-214	Filtered	0.8 U	2.9	1.1	1.4
RD-91	SMRD-91-GW033011	Bi-214	Suspended	0.83	1.6	0.57	0.79
RD-91	SMRD-91-GW033011	Bi-214	Total	1.7	NA	1.2	NA
RD-91	SMRD-91-GW033011	Cd-113m	Filtered	4200 U	13000	4000	6400
RD-91	SMRD-91-GW033011	Cd-113m	Suspended	-2400 U	7400	2200	3600
RD-91	SMRD-91-GW033011	Cd-113m	Total	1800	NA	4500	NA
RD-91	SMRD-91-GW033011	Cf-249	Filtered	-0.9 U R	5.1	1.5	2.4
RD-91	SMRD-91-GW033011	Cf-249	Suspended	-0.24 U R	2.5	0.74	1.2
RD-91	SMRD-91-GW033011	Cf-249	Total	-1.1 R	NA	1.7	NA
RD-91	SMRD-91-GW033011	Co-60	Filtered	0.27 U	1.1	0.31	0.49
RD-91	SMRD-91-GW033011	Co-60	Suspended	0.2 U	0.71	0.21	0.33
RD-91	SMRD-91-GW033011	Co-60	Total	0.47	NA	0.38	NA
RD-91	SMRD-91-GW033011	Cs-134	Filtered	0.03 U	1.7	0.51	0.84
RD-91	SMRD-91-GW033011	Cs-134	Suspended	0.23 U	0.77	0.23	0.37
RD-91	SMRD-91-GW033011	Cs-134	Total	0.27	NA	0.56	NA
RD-91	SMRD-91-GW033011	Cs-137	Filtered	-0.005 U	1.1	0.32	0.53
RD-91	SMRD-91-GW033011	Cs-137	Suspended	0.29 U	0.7	0.21	0.33
RD-91	SMRD-91-GW033011	Cs-137	Total	0.28	NA	0.38	NA
RD-91	SMRD-91-GW033011	Eu-152	Filtered	0.4 U	3	0.9	1.5
RD-91	SMRD-91-GW033011	Eu-152	Suspended	-0.04 U	1.9	0.55	0.9
RD-91	SMRD-91-GW033011	Eu-152	Total	0.4	NA	1.1	NA
RD-91	SMRD-91-GW033011	Eu-154	Filtered	-1.1 U	9.2	2.7	4.3
RD-91	SMRD-91-GW033011	Eu-154	Suspended	0.05 U	5.8	1.7	2.8
RD-91	SMRD-91-GW033011	Eu-154	Total	-1	NA	3.1	NA
RD-91	SMRD-91-GW033011	Eu-155	Filtered	-0.5 U	2.8	0.85	1.4
RD-91	SMRD-91-GW033011	Eu-155	Suspended	0.07 U	1.2	0.37	0.61
RD-91	SMRD-91-GW033011	Eu-155	Total	-0.42	NA	0.93	NA
RD-91	SMRD-91-GW033011	gross_alpha	Suspended	11.9	1.8	1.3	1
RD-91	SMRD-91-GW033011	gross_alpha	Total	20.3	NA	1.5	NA
RD-91	SMRD-91-GW033011	gross_beta	Suspended	8.68	1.4	0.75	0.77
RD-91	SMRD-91-GW033011	gross_beta	Total	15.6	NA	1.5	NA
RD-91	SMRD-91-GW033011	H-3	Total	-53 U	140	39	66
RD-91	SMRD-91-GW033011	Ho-166m	Filtered	0.16 U	1.8	0.54	0.87

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-91-GW033011	Ho-166m	Suspended	0.11 U	1.2	0.34	0.55
RD-91	SMRD-91-GW033011	Ho-166m	Total	0.27	NA	0.63	NA
RD-91	SMRD-91-GW033011	K-40	Filtered	-4.1 U	17	5.9	8.2
RD-91	SMRD-91-GW033011	K-40	Suspended	14.3	9.6	3.4	4.5
RD-91	SMRD-91-GW033011	K-40	Total	10.2	NA	6.7	NA
RD-91	SMRD-91-GW033011	Na-22	Filtered	0.29 U	1.1	0.32	0.5
RD-91	SMRD-91-GW033011	Na-22	Suspended	-0.02 U	0.8	0.23	0.37
RD-91	SMRD-91-GW033011	Na-22	Total	0.28	NA	0.39	NA
RD-91	SMRD-91-GW033011	Nb-94	Filtered	0.5	0.96	0.29	0.45
RD-91	SMRD-91-GW033011	Nb-94	Suspended	0 U	0.66	0.19	0.31
RD-91	SMRD-91-GW033011	Nb-94	Total	0.5	NA	0.35	NA
RD-91	SMRD-91-GW033011	Np-236	Filtered	-0.64 U	2.7	0.81	1.3
RD-91	SMRD-91-GW033011	Np-236	Suspended	0.21 U	1.1	0.34	0.55
RD-91	SMRD-91-GW033011	Np-236	Total	-0.43	NA	0.87	NA
RD-91	SMRD-91-GW033011	Np-239	Filtered	0.3 U	7.2	2.1	3.5
RD-91	SMRD-91-GW033011	Np-239	Suspended	0.7 U	3.9	1.2	1.9
RD-91	SMRD-91-GW033011	Np-239	Total	1	NA	2.4	NA
RD-91	SMRD-91-GW033011	Pa-231	Filtered	13 U	48	14	23
RD-91	SMRD-91-GW033011	Pa-231	Suspended	0 U	28	8.2	14
RD-91	SMRD-91-GW033011	Pa-231	Total	13	NA	17	NA
RD-91	SMRD-91-GW033011	Pb-212	Filtered	0.24 U	2.3	0.73	1.1
RD-91	SMRD-91-GW033011	Pb-212	Suspended	1.48	1.2	0.45	0.58
RD-91	SMRD-91-GW033011	Pb-212	Total	1.71	NA	0.86	NA
RD-91	SMRD-91-GW033011	Pb-214	Filtered	0.65 U	2.5	0.9	1.2
RD-91	SMRD-91-GW033011	Pb-214	Suspended	-0.21 U	1.5	0.58	0.72
RD-91	SMRD-91-GW033011	Pb-214	Total	0.4	NA	1.1	NA
RD-91	SMRD-91-GW033011	Sb-125	Filtered	2.2 U	12	3.6	5.8
RD-91	SMRD-91-GW033011	Sb-125	Suspended	0 U	5.7	1.7	2.8
RD-91	SMRD-91-GW033011	Sb-125	Total	2.2	NA	3.9	NA
RD-91	SMRD-91-GW033011	Sn-126	Filtered	0.14 U	1.4	0.4	0.65
RD-91	SMRD-91-GW033011	Sn-126	Suspended	0 U	0.83	0.24	0.39
RD-91	SMRD-91-GW033011	Sn-126	Total	0.14	NA	0.46	NA
RD-91	SMRD-91-GW033011	Sr-90	Suspended	0.043	0.06	0.019	0.034
RD-91	SMRD-91-GW033011	Sr-90	Total	0.063	NA	0.044	NA
RD-91	SMRD-91-GW033011	Te-125m	Filtered	0.5 U	2.8	0.82	1.3
RD-91	SMRD-91-GW033011	Te-125m	Suspended	0 U	1.3	0.39	0.64
RD-91	SMRD-91-GW033011	Te-125m	Total	0.5	NA	0.91	NA
RD-91	SMRD-91-GW033011	Th-231	Filtered	0.199	0.022	0.025	0.008

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-91	SMRD-91-GW033011	Th-231	Suspended	0.0079	0.016	0.0053	0.0051
RD-91	SMRD-91-GW033011	Th-231	Total	0.207	NA	0.025	NA
RD-91	SMRD-91-GW033011	Th-234	Filtered	8.9 U	23	8.6	11
RD-91	SMRD-91-GW033011	Th-234	Suspended	0.5 U	7.5	2.3	3.7
RD-91	SMRD-91-GW033011	Th-234	Total	9.4	NA	9	NA
RD-91	SMRD-91-GW033011	Tl-208	Filtered	0.61 U	1.3	0.42	0.62
RD-91	SMRD-91-GW033011	Tl-208	Suspended	0.26 U	0.88	0.25	0.43
RD-91	SMRD-91-GW033011	Tl-208	Total	0.87	NA	0.49	NA
RD-91	SMRD-91-GW033011	Tm-171	Filtered	-20 U	370	110	180
RD-91	SMRD-91-GW033011	Tm-171	Suspended	19 U	120	35	57
RD-91	SMRD-91-GW033011	Tm-171	Total	-3	NA	120	NA
RD-91	SMRD-91-GW033011	U-233/234	Filtered	5.2	0.006	0.24	0.004
RD-91	SMRD-91-GW033011	U-233/234	Suspended	0.099	0.013	0.016	0.004
RD-91	SMRD-91-GW033011	U-233/234	Total	5.3	NA	0.24	NA
RD-91	SMRD-91-GW033011	U-235/236	Filtered	0.199	0.022	0.025	0.008
RD-91	SMRD-91-GW033011	U-235/236	Suspended	0.0079	0.016	0.0053	0.0051
RD-91	SMRD-91-GW033011	U-235/236	Total	0.207	NA	0.025	NA
RD-91	SMRD-91-GW033011	U-238	Filtered	4.29	0.006	0.2	0.004
RD-91	SMRD-91-GW033011	U-238	Suspended	0.108	0.013	0.016	0.004
RD-91	SMRD-91-GW033011	U-238	Total	4.4	NA	0.2	NA
RD-92	SMRD-92-GW032211	Ac-227	Filtered	-1.8 U	8.3	2.5	4.1
RD-92	SMRD-92-GW032211	Ac-227	Suspended	0.8 U	4.7	1.4	2.3
RD-92	SMRD-92-GW032211	Ac-227	Total	-1	NA	2.9	NA
RD-92	SMRD-92-GW032211	Ac-228	Filtered	2.5	4	1.2	1.9
RD-92	SMRD-92-GW032211	Ac-228	Suspended	-1.1 U	2.7	1.7	1.3
RD-92	SMRD-92-GW032211	Ac-228	Total	1.4	NA	2.1	NA
RD-92	SMRD-92-GW032211	Ag-108	Filtered	-0.0008 U R	0.087	0.025	0.042
RD-92	SMRD-92-GW032211	Ag-108	Suspended	0.011 U R	0.049	0.015	0.024
RD-92	SMRD-92-GW032211	Ag-108	Total	0.011 R	NA	0.029	NA
RD-92	SMRD-92-GW032211	Ag-108m	Filtered	-0.009 U R	0.94	0.27	0.45
RD-92	SMRD-92-GW032211	Ag-108m	Suspended	0.12 U R	0.53	0.16	0.25
RD-92	SMRD-92-GW032211	Ag-108m	Total	0.11 R	NA	0.31	NA
RD-92	SMRD-92-GW032211	Ba-133	Filtered	-0.3 U R	10	3.1	5
RD-92	SMRD-92-GW032211	Ba-133	Suspended	-0.4 U R	6.2	1.8	3
RD-92	SMRD-92-GW032211	Ba-133	Total	-0.7 R	NA	3.6	NA
RD-92	SMRD-92-GW032211	Ba-137m	Filtered	0.18 U	0.95	0.28	0.45
RD-92	SMRD-92-GW032211	Ba-137m	Suspended	-0.24 U	0.7	0.21	0.34
RD-92	SMRD-92-GW032211	Ba-137m	Total	-0.06	NA	0.35	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-92-GW032211	Bi-212	Filtered	-2.9 U	9.5	5.4	4.5
RD-92	SMRD-92-GW032211	Bi-212	Suspended	2.2 U	5.7	1.7	2.7
RD-92	SMRD-92-GW032211	Bi-212	Total	-0.7	NA	5.7	NA
RD-92	SMRD-92-GW032211	Bi-214	Filtered	1 U	2.9	1.1	1.4
RD-92	SMRD-92-GW032211	Bi-214	Suspended	-1.4 U	1.8	1.1	0.9
RD-92	SMRD-92-GW032211	Bi-214	Total	-0.4	NA	1.6	NA
RD-92	SMRD-92-GW032211	Cd-113m	Filtered	400 U	13000	3900	6400
RD-92	SMRD-92-GW032211	Cd-113m	Suspended	600 U	7100	2100	3400
RD-92	SMRD-92-GW032211	Cd-113m	Total	1000	NA	4400	NA
RD-92	SMRD-92-GW032211	Cf-249	Filtered	0.07 U R	4.8	1.4	2.3
RD-92	SMRD-92-GW032211	Cf-249	Suspended	1.12 U R	3	0.92	1.5
RD-92	SMRD-92-GW032211	Cf-249	Total	1.2 R	NA	1.7	NA
RD-92	SMRD-92-GW032211	Co-60	Filtered	0.14 U	1.2	0.33	0.54
RD-92	SMRD-92-GW032211	Co-60	Suspended	0.23 U	0.68	0.2	0.32
RD-92	SMRD-92-GW032211	Co-60	Total	0.37	NA	0.39	NA
RD-92	SMRD-92-GW032211	Cs-134	Filtered	-0.42 U	1.3	0.38	0.62
RD-92	SMRD-92-GW032211	Cs-134	Suspended	0.08 U	0.71	0.21	0.34
RD-92	SMRD-92-GW032211	Cs-134	Total	-0.34	NA	0.44	NA
RD-92	SMRD-92-GW032211	Cs-137	Filtered	0.2 U	1	0.29	0.47
RD-92	SMRD-92-GW032211	Cs-137	Suspended	-0.25 U	0.74	0.22	0.36
RD-92	SMRD-92-GW032211	Cs-137	Total	-0.06	NA	0.37	NA
RD-92	SMRD-92-GW032211	Eu-152	Filtered	-0.27 U	2.9	0.86	1.4
RD-92	SMRD-92-GW032211	Eu-152	Suspended	-0.41 U	1.8	0.54	0.87
RD-92	SMRD-92-GW032211	Eu-152	Total	-0.7	NA	1	NA
RD-92	SMRD-92-GW032211	Eu-154	Filtered	4	6.3	2	2.9
RD-92	SMRD-92-GW032211	Eu-154	Suspended	-1.6 U	5.4	1.6	2.5
RD-92	SMRD-92-GW032211	Eu-154	Total	2.4	NA	2.5	NA
RD-92	SMRD-92-GW032211	Eu-155	Filtered	0.43 U	2.7	0.81	1.3
RD-92	SMRD-92-GW032211	Eu-155	Suspended	0.1 U	1.2	0.36	0.58
RD-92	SMRD-92-GW032211	Eu-155	Total	0.53	NA	0.88	NA
RD-92	SMRD-92-GW032211	gross_alpha	Filtered	2.24	0.4	0.31	0.2
RD-92	SMRD-92-GW032211	gross_alpha	Suspended	0.15 U	0.42	0.12	0.21
RD-92	SMRD-92-GW032211	gross_alpha	Total	2.39	NA	0.33	NA
RD-92	SMRD-92-GW032211	gross_beta	Filtered	2.18	1.8	0.61	1.1
RD-92	SMRD-92-GW032211	gross_beta	Suspended	0.61	0.7	0.23	0.41
RD-92	SMRD-92-GW032211	gross_beta	Total	2.78	NA	0.65	NA
RD-92	SMRD-92-GW032211	H-3	Total	28 U	150	46	75
RD-92	SMRD-92-GW032211	Ho-166m	Filtered	-0.6 U	2	0.58	0.93

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-92-GW032211	Ho-166m	Suspended	-0.39 U	1.1	0.33	0.53
RD-92	SMRD-92-GW032211	Ho-166m	Total	-1	NA	0.67	NA
RD-92	SMRD-92-GW032211	K-40	Filtered	6.5 U	18	5.2	8.5
RD-92	SMRD-92-GW032211	K-40	Suspended	-0.2 U	12	3	5.6
RD-92	SMRD-92-GW032211	K-40	Total	6.3	NA	6	NA
RD-92	SMRD-92-GW032211	Na-22	Filtered	-0.21 U	1.2	0.34	0.54
RD-92	SMRD-92-GW032211	Na-22	Suspended	0.09 U	0.69	0.2	0.32
RD-92	SMRD-92-GW032211	Na-22	Total	-0.12	NA	0.39	NA
RD-92	SMRD-92-GW032211	Nb-94	Filtered	0.21 U	1.1	0.33	0.54
RD-92	SMRD-92-GW032211	Nb-94	Suspended	-0.14 U	0.64	0.19	0.3
RD-92	SMRD-92-GW032211	Nb-94	Total	0.07	NA	0.38	NA
RD-92	SMRD-92-GW032211	Np-236	Filtered	0.56 U	2.3	0.68	1.1
RD-92	SMRD-92-GW032211	Np-236	Suspended	0.42 U	1.1	0.32	0.52
RD-92	SMRD-92-GW032211	Np-236	Total	0.98	NA	0.75	NA
RD-92	SMRD-92-GW032211	Np-239	Filtered	0.2 U	7.3	2.2	3.6
RD-92	SMRD-92-GW032211	Np-239	Suspended	0.5 U	3.8	1.1	1.9
RD-92	SMRD-92-GW032211	Np-239	Total	0.7	NA	2.4	NA
RD-92	SMRD-92-GW032211	Pa-231	Filtered	-5 U	51	15	24
RD-92	SMRD-92-GW032211	Pa-231	Suspended	-5 U	28	8.2	13
RD-92	SMRD-92-GW032211	Pa-231	Total	-10	NA	17	NA
RD-92	SMRD-92-GW032211	Pb-212	Filtered	0.53 U	2.2	0.64	1.1
RD-92	SMRD-92-GW032211	Pb-212	Suspended	0.1 U	1.2	0.39	0.57
RD-92	SMRD-92-GW032211	Pb-212	Total	0.62	NA	0.75	NA
RD-92	SMRD-92-GW032211	Pb-214	Filtered	1.4	2.7	1.1	1.3
RD-92	SMRD-92-GW032211	Pb-214	Suspended	-0.88 U	1.5	0.92	0.72
RD-92	SMRD-92-GW032211	Pb-214	Total	0.5	NA	1.4	NA
RD-92	SMRD-92-GW032211	Sb-125	Filtered	3.4 U	11	3.2	5.2
RD-92	SMRD-92-GW032211	Sb-125	Suspended	0.4 U	5.6	1.7	2.7
RD-92	SMRD-92-GW032211	Sb-125	Total	3.8	NA	3.6	NA
RD-92	SMRD-92-GW032211	Sn-126	Filtered	0.4 U	1.2	0.34	0.55
RD-92	SMRD-92-GW032211	Sn-126	Suspended	0.09 U	0.78	0.23	0.38
RD-92	SMRD-92-GW032211	Sn-126	Total	0.49	NA	0.41	NA
RD-92	SMRD-92-GW032211	Sr-90	Filtered	0 U	0.057	0.016	0.032
RD-92	SMRD-92-GW032211	Sr-90	Suspended	0.021 U	0.11	0.033	0.064
RD-92	SMRD-92-GW032211	Sr-90	Total	0.021	NA	0.033	NA
RD-92	SMRD-92-GW032211	Te-125m	Filtered	0.78 U	2.5	0.75	1.2
RD-92	SMRD-92-GW032211	Te-125m	Suspended	0.1 U	1.3	0.39	0.63
RD-92	SMRD-92-GW032211	Te-125m	Total	0.88	NA	0.84	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-92	SMRD-92-GW032211	Th-231	Filtered	0.0231	0.017	0.0082	0.0052
RD-92	SMRD-92-GW032211	Th-231	Suspended	0.0094 U	0.013	0.0066	0.0097
RD-92	SMRD-92-GW032211	Th-231	Total	0.032	NA	0.011	NA
RD-92	SMRD-92-GW032211	Th-234	Filtered	5.9 U	22	7.4	11
RD-92	SMRD-92-GW032211	Th-234	Suspended	1.5 U	8.6	2.8	4.2
RD-92	SMRD-92-GW032211	Th-234	Total	7.4	NA	7.9	NA
RD-92	SMRD-92-GW032211	Tl-208	Filtered	0.91	1.4	0.62	0.69
RD-92	SMRD-92-GW032211	Tl-208	Suspended	0.07 U	0.82	0.31	0.4
RD-92	SMRD-92-GW032211	Tl-208	Total	0.98	NA	0.69	NA
RD-92	SMRD-92-GW032211	Tm-171	Filtered	-126 U	290	88	140
RD-92	SMRD-92-GW032211	Tm-171	Suspended	-12 U	110	34	56
RD-92	SMRD-92-GW032211	Tm-171	Total	-138	NA	94	NA
RD-92	SMRD-92-GW032211	U-233/234	Filtered	0.945	0.017	0.059	0.006
RD-92	SMRD-92-GW032211	U-233/234	Suspended	0.008	0.025	0.011	0.008
RD-92	SMRD-92-GW032211	U-233/234	Total	0.952	NA	0.06	NA
RD-92	SMRD-92-GW032211	U-235/236	Filtered	0.0231	0.017	0.0082	0.0052
RD-92	SMRD-92-GW032211	U-235/236	Suspended	0.0094 U	0.013	0.0066	0.0097
RD-92	SMRD-92-GW032211	U-235/236	Total	0.032	NA	0.011	NA
RD-92	SMRD-92-GW032211	U-238	Filtered	0.763	0.005	0.051	0.004
RD-92	SMRD-92-GW032211	U-238	Suspended	0.0081	0.01	0.0092	0.0078
RD-92	SMRD-92-GW032211	U-238	Total	0.771	NA	0.052	NA
RD-93	SMRD-93-GW031711	Ac-227	Filtered	-2.1 U	8.9	2.7	4.3
RD-93	SMRD-93-GW031711	Ac-227	Suspended	-4.1 L U	5.2	1.6	2.6
RD-93	SMRD-93-GW031711	Ac-227	Total	-6.2	NA	3.1	NA
RD-93	SMRD-93-GW031711	Ac-228	Filtered	1.5 U	4.1	1.2	1.9
RD-93	SMRD-93-GW031711	Ac-228	Suspended	4.07	2.2	0.74	1
RD-93	SMRD-93-GW031711	Ac-228	Total	5.5	NA	1.4	NA
RD-93	SMRD-93-GW031711	Ag-108	Filtered	0.02 R	0.089	0.026	0.042
RD-93	SMRD-93-GW031711	Ag-108	Suspended	0.019 R	0.047	0.014	0.022
RD-93	SMRD-93-GW031711	Ag-108	Total	0.039 R	NA	0.03	NA
RD-93	SMRD-93-GW031711	Ag-108m	Filtered	0.21 R	0.96	0.28	0.45
RD-93	SMRD-93-GW031711	Ag-108m	Suspended	0.21 R	0.5	0.15	0.24
RD-93	SMRD-93-GW031711	Ag-108m	Total	0.42 R	NA	0.32	NA
RD-93	SMRD-93-GW031711	Ba-133	Filtered	-1.1 R	10	3	4.9
RD-93	SMRD-93-GW031711	Ba-133	Suspended	1.5 R	5.8	1.7	2.8
RD-93	SMRD-93-GW031711	Ba-133	Total	0.4 R	NA	3.5	NA
RD-93	SMRD-93-GW031711	Ba-137m	Filtered	-0.29 U	1.4	0.4	0.64
RD-93	SMRD-93-GW031711	Ba-137m	Suspended	0.2 U	0.62	0.18	0.29

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-93-GW031711	Ba-137m	Total	-0.09	NA	0.44	NA
RD-93	SMRD-93-GW031711	Bi-212	Filtered	-1.3 U	11	3.2	5.2
RD-93	SMRD-93-GW031711	Bi-212	Suspended	2.4 U	5.2	1.6	2.5
RD-93	SMRD-93-GW031711	Bi-212	Total	1.1	NA	3.6	NA
RD-93	SMRD-93-GW031711	Bi-214	Filtered	1.29	2.4	0.74	1.1
RD-93	SMRD-93-GW031711	Bi-214	Suspended	2.21	1.7	0.69	0.82
RD-93	SMRD-93-GW031711	Bi-214	Total	3.5	NA	1	NA
RD-93	SMRD-93-GW031711	Cd-113m	Filtered	-3 U	13000	3900	6400
RD-93	SMRD-93-GW031711	Cd-113m	Suspended	100 U	7800	2300	3800
RD-93	SMRD-93-GW031711	Cd-113m	Total	100	NA	4500	NA
RD-93	SMRD-93-GW031711	Cf-249	Filtered	1.1 R	5	1.5	2.3
RD-93	SMRD-93-GW031711	Cf-249	Suspended	-0.38 R	2.8	0.82	1.3
RD-93	SMRD-93-GW031711	Cf-249	Total	0.8 R	NA	1.7	NA
RD-93	SMRD-93-GW031711	Co-60	Filtered	-0.35 U	1.6	0.46	0.73
RD-93	SMRD-93-GW031711	Co-60	Suspended	0.06 U	0.58	0.16	0.26
RD-93	SMRD-93-GW031711	Co-60	Total	-0.3	NA	0.49	NA
RD-93	SMRD-93-GW031711	Cs-134	Filtered	0 U	1.7	0.5	0.82
RD-93	SMRD-93-GW031711	Cs-134	Suspended	0.15 U	0.63	0.19	0.3
RD-93	SMRD-93-GW031711	Cs-134	Total	0.15	NA	0.53	NA
RD-93	SMRD-93-GW031711	Cs-137	Filtered	-0.31 U	1.4	0.42	0.68
RD-93	SMRD-93-GW031711	Cs-137	Suspended	0.21 U	0.65	0.2	0.31
RD-93	SMRD-93-GW031711	Cs-137	Total	-0.09	NA	0.47	NA
RD-93	SMRD-93-GW031711	Eu-152	Filtered	-0.23 U	3.3	0.97	1.6
RD-93	SMRD-93-GW031711	Eu-152	Suspended	0.23 U	1.7	0.51	0.83
RD-93	SMRD-93-GW031711	Eu-152	Total	0.004	NA	1.1	NA
RD-93	SMRD-93-GW031711	Eu-154	Filtered	-2.7 U	11	3.3	5.2
RD-93	SMRD-93-GW031711	Eu-154	Suspended	1.3 U	5.7	1.7	2.7
RD-93	SMRD-93-GW031711	Eu-154	Total	-1.4	NA	3.7	NA
RD-93	SMRD-93-GW031711	Eu-155	Filtered	0.57 U	2.6	0.78	1.3
RD-93	SMRD-93-GW031711	Eu-155	Suspended	0.37 U	1.2	0.37	0.6
RD-93	SMRD-93-GW031711	Eu-155	Total	0.95	NA	0.87	NA
RD-93	SMRD-93-GW031711	gross_alpha	Filtered	15	0.44	0.9	0.23
RD-93	SMRD-93-GW031711	gross_alpha	Suspended	9.5	2.2	1.4	1.1
RD-93	SMRD-93-GW031711	gross_alpha	Total	24.5	NA	1.7	NA
RD-93	SMRD-93-GW031711	gross_beta	Filtered	14	5	2.1	2.9
RD-93	SMRD-93-GW031711	gross_beta	Suspended	135	3.7	6.1	2
RD-93	SMRD-93-GW031711	gross_beta	Total	149	NA	6.5	NA
RD-93	SMRD-93-GW031711	H-3	Total	9130	210	430	100

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-93-GW031711	Ho-166m	Filtered	0.16 U	2	0.56	0.92
RD-93	SMRD-93-GW031711	Ho-166m	Suspended	-0.41 U	1.2	0.35	0.56
RD-93	SMRD-93-GW031711	Ho-166m	Total	-0.25	NA	0.67	NA
RD-93	SMRD-93-GW031711	K-40	Filtered	-6 U	20	12	9
RD-93	SMRD-93-GW031711	K-40	Suspended	43	12	4.6	5.9
RD-93	SMRD-93-GW031711	K-40	Total	37	NA	12	NA
RD-93	SMRD-93-GW031711	Na-22	Filtered	0.18 U	1	0.28	0.44
RD-93	SMRD-93-GW031711	Na-22	Suspended	-0.14 U	0.79	0.23	0.37
RD-93	SMRD-93-GW031711	Na-22	Total	0.04	NA	0.36	NA
RD-93	SMRD-93-GW031711	Nb-94	Filtered	-0.07 U	1.1	0.32	0.52
RD-93	SMRD-93-GW031711	Nb-94	Suspended	0.17 U	0.69	0.21	0.33
RD-93	SMRD-93-GW031711	Nb-94	Total	0.1	NA	0.38	NA
RD-93	SMRD-93-GW031711	Np-236	Filtered	-0.31 U	2.6	0.77	1.3
RD-93	SMRD-93-GW031711	Np-236	Suspended	-0.36 U	1.3	0.39	0.63
RD-93	SMRD-93-GW031711	Np-236	Total	-0.67	NA	0.86	NA
RD-93	SMRD-93-GW031711	Np-239	Filtered	1.3 U	7.1	2.1	3.4
RD-93	SMRD-93-GW031711	Np-239	Suspended	0.01 U	3.9	1.1	1.9
RD-93	SMRD-93-GW031711	Np-239	Total	1.3	NA	2.4	NA
RD-93	SMRD-93-GW031711	Pa-231	Filtered	21 U	48	15	23
RD-93	SMRD-93-GW031711	Pa-231	Suspended	1.2 U	26	7.5	12
RD-93	SMRD-93-GW031711	Pa-231	Total	22	NA	16	NA
RD-93	SMRD-93-GW031711	Pb-212	Filtered	-0.8 U	2.5	1.4	1.2
RD-93	SMRD-93-GW031711	Pb-212	Suspended	2.53	1.1	0.42	0.55
RD-93	SMRD-93-GW031711	Pb-212	Total	1.7	NA	1.5	NA
RD-93	SMRD-93-GW031711	Pb-214	Filtered	0.004 U	2.6	0.71	1.2
RD-93	SMRD-93-GW031711	Pb-214	Suspended	0.65 U	1.4	0.45	0.69
RD-93	SMRD-93-GW031711	Pb-214	Total	0.65	NA	0.84	NA
RD-93	SMRD-93-GW031711	Sb-125	Filtered	2 U	12	3.5	5.7
RD-93	SMRD-93-GW031711	Sb-125	Suspended	0.4 U	6	1.8	2.9
RD-93	SMRD-93-GW031711	Sb-125	Total	2.3	NA	3.9	NA
RD-93	SMRD-93-GW031711	Sn-126	Filtered	-0.33 U	1.4	0.42	0.67
RD-93	SMRD-93-GW031711	Sn-126	Suspended	0.01 U	0.76	0.22	0.36
RD-93	SMRD-93-GW031711	Sn-126	Total	-0.31	NA	0.47	NA
RD-93	SMRD-93-GW031711	Sr-90	Filtered	0.038 U	0.16	0.047	0.091
RD-93	SMRD-93-GW031711	Sr-90	Suspended	0.002 U	0.1	0.03	0.055
RD-93	SMRD-93-GW031711	Sr-90	Total	0.041	NA	0.056	NA
RD-93	SMRD-93-GW031711	Te-125m	Filtered	0.46 U	2.7	0.81	1.3
RD-93	SMRD-93-GW031711	Te-125m	Suspended	0.09 U	1.4	0.41	0.67

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-93	SMRD-93-GW031711	Te-125m	Total	0.54	NA	0.91	NA
RD-93	SMRD-93-GW031711	Th-231	Filtered	0.379	0.007	0.035	0.006
RD-93	SMRD-93-GW031711	Th-231	Suspended	0.0244	0.018	0.0085	0.0057
RD-93	SMRD-93-GW031711	Th-231	Total	0.404	NA	0.037	NA
RD-93	SMRD-93-GW031711	Th-234	Filtered	17.6	20	6.4	9.9
RD-93	SMRD-93-GW031711	Th-234	Suspended	3.8 U	8.5	2.7	4.2
RD-93	SMRD-93-GW031711	Th-234	Total	21.5	NA	6.9	NA
RD-93	SMRD-93-GW031711	Tl-208	Filtered	-0.16 U	1.5	0.58	0.7
RD-93	SMRD-93-GW031711	Tl-208	Suspended	1.08	0.75	0.3	0.36
RD-93	SMRD-93-GW031711	Tl-208	Total	0.91	NA	0.65	NA
RD-93	SMRD-93-GW031711	Tm-171	Filtered	61 U	240	72	120
RD-93	SMRD-93-GW031711	Tm-171	Suspended	-7 U	110	32	53
RD-93	SMRD-93-GW031711	Tm-171	Total	54	NA	79	NA
RD-93	SMRD-93-GW031711	U-233/234	Filtered	7.42	0.006	0.34	0.004
RD-93	SMRD-93-GW031711	U-233/234	Suspended	0.79	0.026	0.052	0.01
RD-93	SMRD-93-GW031711	U-233/234	Total	8.21	NA	0.34	NA
RD-93	SMRD-93-GW031711	U-235/236	Filtered	0.379	0.007	0.035	0.006
RD-93	SMRD-93-GW031711	U-235/236	Suspended	0.0244	0.018	0.0085	0.0057
RD-93	SMRD-93-GW031711	U-235/236	Total	0.403	NA	0.036	NA
RD-93	SMRD-93-GW031711	U-238	Filtered	6.69	0.006	0.31	0.004
RD-93	SMRD-93-GW031711	U-238	Suspended	0.727	0.018	0.049	0.006
RD-93	SMRD-93-GW031711	U-238	Total	7.41	NA	0.31	NA
RD-94	SMRD-94-GW032811	Ac-227	Filtered	1 U	6.3	1.9	3
RD-94	SMRD-94-GW032811	Ac-227	Suspended	-3.1 L U	4.5	1.4	2.2
RD-94	SMRD-94-GW032811	Ac-227	Total	-2.2	NA	2.3	NA
RD-94	SMRD-94-GW032811	Ac-228	Filtered	2.5	3.9	1.2	1.8
RD-94	SMRD-94-GW032811	Ac-228	Suspended	0.009 U	3	0.77	1.4
RD-94	SMRD-94-GW032811	Ac-228	Total	2.5	NA	1.4	NA
RD-94	SMRD-94-GW032811	Ag-108	Filtered	-0.003 U	0.08	0.023	0.038
RD-94	SMRD-94-GW032811	Ag-108	Suspended	-0.013 U	0.051	0.015	0.025
RD-94	SMRD-94-GW032811	Ag-108	Total	-0.015	NA	0.028	NA
RD-94	SMRD-94-GW032811	Ag-108m	Filtered	-0.03 U	0.86	0.25	0.41
RD-94	SMRD-94-GW032811	Ag-108m	Suspended	-0.14 U	0.55	0.16	0.26
RD-94	SMRD-94-GW032811	Ag-108m	Total	-0.16	NA	0.3	NA
RD-94	SMRD-94-GW032811	Ba-133	Filtered	-0.2 U	13	3.7	6.1
RD-94	SMRD-94-GW032811	Ba-133	Suspended	-2.1 U	5.9	1.8	2.9
RD-94	SMRD-94-GW032811	Ba-133	Total	-2.3	NA	4.1	NA
RD-94	SMRD-94-GW032811	Ba-137m	Filtered	0.5	1	0.31	0.48

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW032811	Ba-137m	Suspended	-0.01 U	0.7	0.2	0.33
RD-94	SMRD-94-GW032811	Ba-137m	Total	0.48	NA	0.37	NA
RD-94	SMRD-94-GW032811	Bi-212	Filtered	3.7 U	8.4	2.5	4
RD-94	SMRD-94-GW032811	Bi-212	Suspended	1.7 U	5.4	1.6	2.6
RD-94	SMRD-94-GW032811	Bi-212	Total	5.5	NA	3	NA
RD-94	SMRD-94-GW032811	Bi-214	Filtered	1.11	2.3	0.78	1.1
RD-94	SMRD-94-GW032811	Bi-214	Suspended	1.08	1.6	0.61	0.77
RD-94	SMRD-94-GW032811	Bi-214	Total	2.2	NA	0.98	NA
RD-94	SMRD-94-GW032811	Cd-113m	Filtered	4000 U	14000	4200	6800
RD-94	SMRD-94-GW032811	Cd-113m	Suspended	300 U	7100	2100	3400
RD-94	SMRD-94-GW032811	Cd-113m	Total	4300	NA	4700	NA
RD-94	SMRD-94-GW032811	Cf-249	Filtered	-1.5 U	5.9	1.8	2.8
RD-94	SMRD-94-GW032811	Cf-249	Suspended	-0.68 U	3.2	0.94	1.5
RD-94	SMRD-94-GW032811	Cf-249	Total	-2.1	NA	2	NA
RD-94	SMRD-94-GW032811	Co-60	Filtered	0.12 U	1	0.3	0.48
RD-94	SMRD-94-GW032811	Co-60	Suspended	0 U	1.1	0.32	0.53
RD-94	SMRD-94-GW032811	Co-60	Total	0.12	NA	0.44	NA
RD-94	SMRD-94-GW032811	Cs-134	Filtered	-0.15 U	1.3	0.38	0.62
RD-94	SMRD-94-GW032811	Cs-134	Suspended	-0.09 U	0.79	0.23	0.38
RD-94	SMRD-94-GW032811	Cs-134	Total	-0.24	NA	0.45	NA
RD-94	SMRD-94-GW032811	Cs-137	Filtered	0.53	1.1	0.33	0.51
RD-94	SMRD-94-GW032811	Cs-137	Suspended	-0.01 U	0.74	0.22	0.35
RD-94	SMRD-94-GW032811	Cs-137	Total	0.51	NA	0.39	NA
RD-94	SMRD-94-GW032811	Eu-152	Filtered	0.04 U	3.3	0.95	1.6
RD-94	SMRD-94-GW032811	Eu-152	Suspended	0.23 U	1.7	0.49	0.8
RD-94	SMRD-94-GW032811	Eu-152	Total	0.3	NA	1.1	NA
RD-94	SMRD-94-GW032811	Eu-154	Filtered	3.3 U	9.3	2.8	4.4
RD-94	SMRD-94-GW032811	Eu-154	Suspended	-1.1 U	6	1.8	2.8
RD-94	SMRD-94-GW032811	Eu-154	Total	2.2	NA	3.3	NA
RD-94	SMRD-94-GW032811	Eu-155	Filtered	-0.7 U	3.4	1	1.6
RD-94	SMRD-94-GW032811	Eu-155	Suspended	0.07 U	1.4	0.41	0.67
RD-94	SMRD-94-GW032811	Eu-155	Total	-0.6	NA	1.1	NA
RD-94	SMRD-94-GW032811	gross_alpha	Filtered	28.5 L	0.9	1.7	0.5
RD-94	SMRD-94-GW032811	gross_alpha	Suspended	0.86	0.52	0.21	0.28
RD-94	SMRD-94-GW032811	gross_alpha	Total	29.3	NA	1.7	NA
RD-94	SMRD-94-GW032811	gross_beta	Filtered	16.5	4.6	2.1	2.6
RD-94	SMRD-94-GW032811	gross_beta	Suspended	1	1.2	0.39	0.7
RD-94	SMRD-94-GW032811	gross_beta	Total	17.5	NA	2.1	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW032811	H-3	Total	5000	170	250	80
RD-94	SMRD-94-GW032811	Ho-166m	Filtered	-0.74 U	2.1	0.64	1
RD-94	SMRD-94-GW032811	Ho-166m	Suspended	-0.27 U	1.2	0.37	0.59
RD-94	SMRD-94-GW032811	Ho-166m	Total	-1	NA	0.74	NA
RD-94	SMRD-94-GW032811	K-40	Filtered	6 U	17	4.3	7.9
RD-94	SMRD-94-GW032811	K-40	Suspended	-4.5 U	12	4.4	5.9
RD-94	SMRD-94-GW032811	K-40	Total	1.5	NA	6.2	NA
RD-94	SMRD-94-GW032811	Na-22	Filtered	-0.14 U	1.2	0.36	0.58
RD-94	SMRD-94-GW032811	Na-22	Suspended	-0.18 U	0.78	0.23	0.37
RD-94	SMRD-94-GW032811	Na-22	Total	-0.32	NA	0.42	NA
RD-94	SMRD-94-GW032811	Nb-94	Filtered	0.09 U	0.91	0.26	0.43
RD-94	SMRD-94-GW032811	Nb-94	Suspended	0.16 U	0.66	0.2	0.32
RD-94	SMRD-94-GW032811	Nb-94	Total	0.25	NA	0.33	NA
RD-94	SMRD-94-GW032811	Np-236	Filtered	-0.11 U	2.3	0.67	1.1
RD-94	SMRD-94-GW032811	Np-236	Suspended	-0.28 U	1.2	0.37	0.59
RD-94	SMRD-94-GW032811	Np-236	Total	-0.39	NA	0.76	NA
RD-94	SMRD-94-GW032811	Np-239	Filtered	1.6 U	7.3	2.2	3.6
RD-94	SMRD-94-GW032811	Np-239	Suspended	-0.04 U	3.9	1.1	1.9
RD-94	SMRD-94-GW032811	Np-239	Total	1.6	NA	2.5	NA
RD-94	SMRD-94-GW032811	Pa-231	Filtered	-9 U	52	15	25
RD-94	SMRD-94-GW032811	Pa-231	Suspended	-4.2 U	25	7.4	12
RD-94	SMRD-94-GW032811	Pa-231	Total	-13	NA	17	NA
RD-94	SMRD-94-GW032811	Pb-212	Filtered	1.09 U	2.3	0.71	1.1
RD-94	SMRD-94-GW032811	Pb-212	Suspended	0.4 U	1.2	0.43	0.56
RD-94	SMRD-94-GW032811	Pb-212	Total	1.49	NA	0.83	NA
RD-94	SMRD-94-GW032811	Pb-214	Filtered	0.8 U	2.4	0.87	1.2
RD-94	SMRD-94-GW032811	Pb-214	Suspended	0.48 U	1.5	0.41	0.7
RD-94	SMRD-94-GW032811	Pb-214	Total	1.27	NA	0.96	NA
RD-94	SMRD-94-GW032811	Sb-125	Filtered	0.4 U	11	3.3	5.4
RD-94	SMRD-94-GW032811	Sb-125	Suspended	0.3 U	5.8	1.7	2.8
RD-94	SMRD-94-GW032811	Sb-125	Total	0.7	NA	3.7	NA
RD-94	SMRD-94-GW032811	Sn-126	Filtered	-0.01 U	1.2	0.36	0.59
RD-94	SMRD-94-GW032811	Sn-126	Suspended	0.43	0.75	0.23	0.36
RD-94	SMRD-94-GW032811	Sn-126	Total	0.42	NA	0.43	NA
RD-94	SMRD-94-GW032811	Sr-90	Filtered	0.003 U	0.095	0.027	0.054
RD-94	SMRD-94-GW032811	Sr-90	Suspended	-0.026 U	0.12	0.035	0.07
RD-94	SMRD-94-GW032811	Sr-90	Total	-0.023	NA	0.044	NA
RD-94	SMRD-94-GW032811	Te-125m	Filtered	0.09 U	2.6	0.75	1.2

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-94	SMRD-94-GW032811	Te-125m	Suspended	0.08 U	1.4	0.4	0.66
RD-94	SMRD-94-GW032811	Te-125m	Total	0.17	NA	0.85	NA
RD-94	SMRD-94-GW032811	Th-231	Filtered	0.815	0.024	0.06	0.009
RD-94	SMRD-94-GW032811	Th-231	Suspended	0.0033 U	0.019	0.0048	0.0069
RD-94	SMRD-94-GW032811	Th-231	Total	0.818	NA	0.06	NA
RD-94	SMRD-94-GW032811	Th-234	Filtered	4.7 U	24	7.7	12
RD-94	SMRD-94-GW032811	Th-234	Suspended	3.6 U	8.8	2.8	4.3
RD-94	SMRD-94-GW032811	Th-234	Total	8.3	NA	8.2	NA
RD-94	SMRD-94-GW032811	Tl-208	Filtered	0.43 U	1.3	0.39	0.6
RD-94	SMRD-94-GW032811	Tl-208	Suspended	0.49	0.77	0.27	0.37
RD-94	SMRD-94-GW032811	Tl-208	Total	0.92	NA	0.48	NA
RD-94	SMRD-94-GW032811	Tm-171	Filtered	140 U	340	100	170
RD-94	SMRD-94-GW032811	Tm-171	Suspended	41 U	120	35	57
RD-94	SMRD-94-GW032811	Tm-171	Total	180	NA	110	NA
RD-94	SMRD-94-GW032811	U-233/234	Filtered	18.1	0.006	0.79	0.005
RD-94	SMRD-94-GW032811	U-233/234	Suspended	0.081	0.016	0.014	0.006
RD-94	SMRD-94-GW032811	U-233/234	Total	18.2	NA	0.79	NA
RD-94	SMRD-94-GW032811	U-235/236	Filtered	0.815	0.024	0.06	0.009
RD-94	SMRD-94-GW032811	U-235/236	Suspended	0.0033 U	0.019	0.0048	0.0069
RD-94	SMRD-94-GW032811	U-235/236	Total	0.818	NA	0.06	NA
RD-94	SMRD-94-GW032811	U-238	Filtered	17.3	0.02	0.75	0.005
RD-94	SMRD-94-GW032811	U-238	Suspended	0.101	0.005	0.015	0.004
RD-94	SMRD-94-GW032811	U-238	Total	17.4	NA	0.75	NA
RD-95	SMRD-95-GW031711	Ac-227	Filtered	0.5 U	7.4	2.2	3.6
RD-95	SMRD-95-GW031711	Ac-227	Suspended	-0.9 U	3.9	1.2	1.9
RD-95	SMRD-95-GW031711	Ac-227	Total	-0.4	NA	2.5	NA
RD-95	SMRD-95-GW031711	Ac-228	Filtered	2.6	3.2	1	1.5
RD-95	SMRD-95-GW031711	Ac-228	Suspended	0.14 U	2.7	0.7	1.3
RD-95	SMRD-95-GW031711	Ac-228	Total	2.8	NA	1.2	NA
RD-95	SMRD-95-GW031711	Ag-108	Filtered	0.016 R	0.086	0.025	0.041
RD-95	SMRD-95-GW031711	Ag-108	Suspended	0.005 R	0.051	0.015	0.025
RD-95	SMRD-95-GW031711	Ag-108	Total	0.021 R	NA	0.029	NA
RD-95	SMRD-95-GW031711	Ag-108m	Filtered	0.17 R	0.92	0.27	0.44
RD-95	SMRD-95-GW031711	Ag-108m	Suspended	0.05 R	0.55	0.16	0.27
RD-95	SMRD-95-GW031711	Ag-108m	Total	0.22 R	NA	0.32	NA
RD-95	SMRD-95-GW031711	Ba-133	Filtered	5.5 R	11	3.3	5.3
RD-95	SMRD-95-GW031711	Ba-133	Suspended	-0.8 R	6	1.8	2.9
RD-95	SMRD-95-GW031711	Ba-133	Total	4.7 R	NA	3.8	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-95-GW031711	Ba-137m	Filtered	0.3 U	1	0.31	0.49
RD-95	SMRD-95-GW031711	Ba-137m	Suspended	-0.18 U	0.63	0.19	0.3
RD-95	SMRD-95-GW031711	Ba-137m	Total	0.12	NA	0.36	NA
RD-95	SMRD-95-GW031711	Bi-212	Filtered	-4 U	10	10	5
RD-95	SMRD-95-GW031711	Bi-212	Suspended	1.9 U	4.9	1.5	2.3
RD-95	SMRD-95-GW031711	Bi-212	Total	-3	NA	10	NA
RD-95	SMRD-95-GW031711	Bi-214	Filtered	1.16 U	2.7	0.86	1.3
RD-95	SMRD-95-GW031711	Bi-214	Suspended	-0.59 U	1.7	0.9	0.83
RD-95	SMRD-95-GW031711	Bi-214	Total	0.6	NA	1.2	NA
RD-95	SMRD-95-GW031711	Cd-113m	Filtered	1000 U	12000	3600	5900
RD-95	SMRD-95-GW031711	Cd-113m	Suspended	600 U	6800	2000	3300
RD-95	SMRD-95-GW031711	Cd-113m	Total	1500	NA	4100	NA
RD-95	SMRD-95-GW031711	Cf-249	Filtered	-0.05 R	5.5	1.6	2.7
RD-95	SMRD-95-GW031711	Cf-249	Suspended	0.91 R	3.1	0.92	1.5
RD-95	SMRD-95-GW031711	Cf-249	Total	0.9 R	NA	1.9	NA
RD-95	SMRD-95-GW031711	Co-60	Filtered	-0.005 U	1.2	0.33	0.54
RD-95	SMRD-95-GW031711	Co-60	Suspended	-0.2 U	0.69	0.2	0.32
RD-95	SMRD-95-GW031711	Co-60	Total	-0.21	NA	0.39	NA
RD-95	SMRD-95-GW031711	Cs-134	Filtered	0.04 U	1.2	0.34	0.56
RD-95	SMRD-95-GW031711	Cs-134	Suspended	0.04 U	0.74	0.22	0.36
RD-95	SMRD-95-GW031711	Cs-134	Total	0.07	NA	0.41	NA
RD-95	SMRD-95-GW031711	Cs-137	Filtered	0.31 U	1.1	0.33	0.52
RD-95	SMRD-95-GW031711	Cs-137	Suspended	-0.19 U	0.67	0.2	0.32
RD-95	SMRD-95-GW031711	Cs-137	Total	0.13	NA	0.38	NA
RD-95	SMRD-95-GW031711	Eu-152	Filtered	-0.07 U	3.6	1.1	1.7
RD-95	SMRD-95-GW031711	Eu-152	Suspended	-0.03 U	1.9	0.56	0.92
RD-95	SMRD-95-GW031711	Eu-152	Total	-0.1	NA	1.2	NA
RD-95	SMRD-95-GW031711	Eu-154	Filtered	2.8 U	8.6	2.6	4
RD-95	SMRD-95-GW031711	Eu-154	Suspended	0 U	5.8	1.7	2.8
RD-95	SMRD-95-GW031711	Eu-154	Total	2.8	NA	3.1	NA
RD-95	SMRD-95-GW031711	Eu-155	Filtered	-0.16 U	2.9	0.87	1.4
RD-95	SMRD-95-GW031711	Eu-155	Suspended	0.3 U	1.2	0.36	0.58
RD-95	SMRD-95-GW031711	Eu-155	Total	0.15	NA	0.94	NA
RD-95	SMRD-95-GW031711	gross_alpha	Filtered	18.1	0.4	1.1	0.2
RD-95	SMRD-95-GW031711	gross_alpha	Suspended	0.13 U	0.67	0.18	0.36
RD-95	SMRD-95-GW031711	gross_alpha	Total	18.2	NA	1.1	NA
RD-95	SMRD-95-GW031711	gross_beta	Filtered	5.8	4.1	1.5	2.3
RD-95	SMRD-95-GW031711	gross_beta	Suspended	26.8	1.1	1.3	0.6

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-95-GW031711	gross_beta	Total	32.6	NA	2	NA
RD-95	SMRD-95-GW031711	H-3	Total	49900	200	2200	90
RD-95	SMRD-95-GW031711	Ho-166m	Filtered	-0.1 U	1.7	0.48	0.79
RD-95	SMRD-95-GW031711	Ho-166m	Suspended	-0.2 U	1.1	0.34	0.55
RD-95	SMRD-95-GW031711	Ho-166m	Total	-0.3	NA	0.59	NA
RD-95	SMRD-95-GW031711	K-40	Filtered	-3.7 U	20	5.6	9.4
RD-95	SMRD-95-GW031711	K-40	Suspended	1.1 U	12	3.1	5.6
RD-95	SMRD-95-GW031711	K-40	Total	-2.6	NA	6.4	NA
RD-95	SMRD-95-GW031711	Na-22	Filtered	0.13 U	1	0.29	0.46
RD-95	SMRD-95-GW031711	Na-22	Suspended	0.08 U	0.7	0.2	0.33
RD-95	SMRD-95-GW031711	Na-22	Total	0.22	NA	0.35	NA
RD-95	SMRD-95-GW031711	Nb-94	Filtered	0.22 U	1.1	0.31	0.5
RD-95	SMRD-95-GW031711	Nb-94	Suspended	-0.05 U	0.68	0.2	0.33
RD-95	SMRD-95-GW031711	Nb-94	Total	0.17	NA	0.37	NA
RD-95	SMRD-95-GW031711	Np-236	Filtered	-0.79 U	2.6	0.8	1.3
RD-95	SMRD-95-GW031711	Np-236	Suspended	0 U	1.2	0.35	0.57
RD-95	SMRD-95-GW031711	Np-236	Total	-0.79	NA	0.87	NA
RD-95	SMRD-95-GW031711	Np-239	Filtered	0.05 U	7.4	2.2	3.6
RD-95	SMRD-95-GW031711	Np-239	Suspended	-0.1 U	3.8	1.1	1.8
RD-95	SMRD-95-GW031711	Np-239	Total	-0.05	NA	2.4	NA
RD-95	SMRD-95-GW031711	Pa-231	Filtered	7 U	53	16	26
RD-95	SMRD-95-GW031711	Pa-231	Suspended	-0.7 U	27	7.8	13
RD-95	SMRD-95-GW031711	Pa-231	Total	6	NA	17	NA
RD-95	SMRD-95-GW031711	Pb-212	Filtered	1.08 U	2.2	0.67	1.1
RD-95	SMRD-95-GW031711	Pb-212	Suspended	0.27 U	1	0.3	0.49
RD-95	SMRD-95-GW031711	Pb-212	Total	1.35	NA	0.74	NA
RD-95	SMRD-95-GW031711	Pb-214	Filtered	-0.6 U	2.3	1	1.1
RD-95	SMRD-95-GW031711	Pb-214	Suspended	0.41 U	1.3	0.42	0.65
RD-95	SMRD-95-GW031711	Pb-214	Total	-0.2	NA	1.1	NA
RD-95	SMRD-95-GW031711	Sb-125	Filtered	2.8 U	9.6	2.9	4.6
RD-95	SMRD-95-GW031711	Sb-125	Suspended	0.3 U	5.7	1.7	2.8
RD-95	SMRD-95-GW031711	Sb-125	Total	3.1	NA	3.3	NA
RD-95	SMRD-95-GW031711	Sn-126	Filtered	0.04 U	1.1	0.32	0.52
RD-95	SMRD-95-GW031711	Sn-126	Suspended	0.36	0.61	0.19	0.29
RD-95	SMRD-95-GW031711	Sn-126	Total	0.4	NA	0.37	NA
RD-95	SMRD-95-GW031711	Sr-90	Filtered	0.017 U	0.11	0.033	0.063
RD-95	SMRD-95-GW031711	Sr-90	Suspended	0.019 U	0.15	0.043	0.088
RD-95	SMRD-95-GW031711	Sr-90	Total	0.035	NA	0.054	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-95	SMRD-95-GW031711	Te-125m	Filtered	0.64 U	2.2	0.66	1.1
RD-95	SMRD-95-GW031711	Te-125m	Suspended	0.08 U	1.3	0.39	0.64
RD-95	SMRD-95-GW031711	Te-125m	Total	0.72	NA	0.77	NA
RD-95	SMRD-95-GW031711	Th-231	Filtered	0.502	0.018	0.043	0.006
RD-95	SMRD-95-GW031711	Th-231	Suspended	0.0049 U	0.0067	0.0035	0.0057
RD-95	SMRD-95-GW031711	Th-231	Total	0.508	NA	0.043	NA
RD-95	SMRD-95-GW031711	Th-234	Filtered	19.8	23	8.7	11
RD-95	SMRD-95-GW031711	Th-234	Suspended	4 U	8.3	2.6	4.1
RD-95	SMRD-95-GW031711	Th-234	Total	23.8	NA	9.1	NA
RD-95	SMRD-95-GW031711	Tl-208	Filtered	0.42 U	1.2	0.34	0.56
RD-95	SMRD-95-GW031711	Tl-208	Suspended	0.41	0.69	0.24	0.33
RD-95	SMRD-95-GW031711	Tl-208	Total	0.83	NA	0.42	NA
RD-95	SMRD-95-GW031711	Tm-171	Filtered	6 U	320	96	160
RD-95	SMRD-95-GW031711	Tm-171	Suspended	17 U	110	32	53
RD-95	SMRD-95-GW031711	Tm-171	Total	20	NA	100	NA
RD-95	SMRD-95-GW031711	U-233/234	Filtered	10.5	0.02	0.47	0.007
RD-95	SMRD-95-GW031711	U-233/234	Suspended	0.0054	0.015	0.0063	0.0046
RD-95	SMRD-95-GW031711	U-233/234	Total	10.5	NA	0.47	NA
RD-95	SMRD-95-GW031711	U-235/236	Filtered	0.502	0.018	0.043	0.006
RD-95	SMRD-95-GW031711	U-235/236	Suspended	0.0049 U	0.0067	0.0035	0.0057
RD-95	SMRD-95-GW031711	U-235/236	Total	0.507	NA	0.043	NA
RD-95	SMRD-95-GW031711	U-238	Filtered	9.48	0.02	0.42	0.006
RD-95	SMRD-95-GW031711	U-238	Suspended	0.0081	0.018	0.0069	0.0065
RD-95	SMRD-95-GW031711	U-238	Total	9.49	NA	0.42	NA
RD-96	SMRD-96-GW032511	Ac-227	Filtered	-4.7 U	9.4	2.9	4.6
RD-96	SMRD-96-GW032511	Ac-227	Suspended	-2.9 L U	4.7	1.4	2.3
RD-96	SMRD-96-GW032511	Ac-227	Total	-7.5 L	NA	3.2	NA
RD-96	SMRD-96-GW032511	Ac-228	Filtered	2.6	4.3	1.3	2
RD-96	SMRD-96-GW032511	Ac-228	Suspended	-0.4 U	2.9	1.1	1.4
RD-96	SMRD-96-GW032511	Ac-228	Total	2.2	NA	1.7	NA
RD-96	SMRD-96-GW032511	Ag-108	Filtered	0.057 R	0.1	0.031	0.048
RD-96	SMRD-96-GW032511	Ag-108	Suspended	0.007 U R	0.052	0.015	0.025
RD-96	SMRD-96-GW032511	Ag-108	Total	0.064 R	NA	0.035	NA
RD-96	SMRD-96-GW032511	Ag-108m	Filtered	0.61 R	1.1	0.34	0.52
RD-96	SMRD-96-GW032511	Ag-108m	Suspended	0.07 U R	0.56	0.17	0.27
RD-96	SMRD-96-GW032511	Ag-108m	Total	0.68 R	NA	0.37	NA
RD-96	SMRD-96-GW032511	Ba-133	Filtered	2.3 U R	14	4	6.5
RD-96	SMRD-96-GW032511	Ba-133	Suspended	-0.02 U R	5.9	1.7	2.9

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW032511	Ba-133	Total	2.3 R	NA	4.4	NA
RD-96	SMRD-96-GW032511	Ba-137m	Filtered	0.25 U	1.4	0.41	0.66
RD-96	SMRD-96-GW032511	Ba-137m	Suspended	0 U	0.69	0.2	0.33
RD-96	SMRD-96-GW032511	Ba-137m	Total	0.25	NA	0.46	NA
RD-96	SMRD-96-GW032511	Bi-212	Filtered	1.7 U	12	3.5	5.7
RD-96	SMRD-96-GW032511	Bi-212	Suspended	1 U	5.4	1.6	2.5
RD-96	SMRD-96-GW032511	Bi-212	Total	2.7	NA	3.8	NA
RD-96	SMRD-96-GW032511	Bi-214	Filtered	3	2.9	1.1	1.4
RD-96	SMRD-96-GW032511	Bi-214	Suspended	0.09 U	1.8	0.66	0.85
RD-96	SMRD-96-GW032511	Bi-214	Total	3.1	NA	1.3	NA
RD-96	SMRD-96-GW032511	Cd-113m	Filtered	-3000 U	16000	4800	7800
RD-96	SMRD-96-GW032511	Cd-113m	Suspended	300 U	6800	2000	3300
RD-96	SMRD-96-GW032511	Cd-113m	Total	-2700	NA	5200	NA
RD-96	SMRD-96-GW032511	Cf-249	Filtered	-1.6 U R	7.3	2.2	3.5
RD-96	SMRD-96-GW032511	Cf-249	Suspended	0.76 U R	3.1	0.92	1.5
RD-96	SMRD-96-GW032511	Cf-249	Total	-0.8 R	NA	2.3	NA
RD-96	SMRD-96-GW032511	Co-60	Filtered	-0.22 U	1.8	0.51	0.82
RD-96	SMRD-96-GW032511	Co-60	Suspended	0.11 U	0.78	0.22	0.36
RD-96	SMRD-96-GW032511	Co-60	Total	-0.11	NA	0.56	NA
RD-96	SMRD-96-GW032511	Cs-134	Filtered	0.15 U	1.2	0.33	0.54
RD-96	SMRD-96-GW032511	Cs-134	Suspended	0.49	0.8	0.13	0.39
RD-96	SMRD-96-GW032511	Cs-134	Total	0.64 SK	NA	0.36	NA
RD-96	SMRD-96-GW032511	Cs-137	Filtered	0.26 U	1.5	0.43	0.69
RD-96	SMRD-96-GW032511	Cs-137	Suspended	0 U	0.73	0.21	0.35
RD-96	SMRD-96-GW032511	Cs-137	Total	0.26	NA	0.48	NA
RD-96	SMRD-96-GW032511	Eu-152	Filtered	-1.2 U	4.2	1.3	2
RD-96	SMRD-96-GW032511	Eu-152	Suspended	0.37 U	1.8	0.55	0.89
RD-96	SMRD-96-GW032511	Eu-152	Total	-0.8	NA	1.4	NA
RD-96	SMRD-96-GW032511	Eu-154	Filtered	4.4 U	12	3.5	5.3
RD-96	SMRD-96-GW032511	Eu-154	Suspended	-1.2 U J	5.4	1.6	2.5
RD-96	SMRD-96-GW032511	Eu-154	Total	3.1	NA	3.8	NA
RD-96	SMRD-96-GW032511	Eu-155	Filtered	0.67 U	3.2	0.95	1.5
RD-96	SMRD-96-GW032511	Eu-155	Suspended	0.26 U	1.2	0.37	0.6
RD-96	SMRD-96-GW032511	Eu-155	Total	0.9 SK	NA	1	NA
RD-96	SMRD-96-GW032511	gross_alpha	Filtered	7.41	0.5	0.59	0.27
RD-96	SMRD-96-GW032511	gross_alpha	Suspended	6.02	1.2	0.84	0.58
RD-96	SMRD-96-GW032511	gross_alpha	Total	12.5	NA	1	NA
RD-96	SMRD-96-GW032511	gross_beta	Filtered	7.18	1.7	0.8	1

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW032511	gross_beta	Suspended	7.57	1.3	0.68	0.73
RD-96	SMRD-96-GW032511	gross_beta	Total	14.7	NA	1.1	NA
RD-96	SMRD-96-GW032511	H-3	Total	25 U	120	36	59
RD-96	SMRD-96-GW032511	Ho-166m	Filtered	-0.92 U	2.9	0.88	1.4
RD-96	SMRD-96-GW032511	Ho-166m	Suspended	0.04 U	1.1	0.33	0.54
RD-96	SMRD-96-GW032511	Ho-166m	Total	-0.87 SK	NA	0.94	NA
RD-96	SMRD-96-GW032511	K-40	Filtered	9.4	18	4.8	8.1
RD-96	SMRD-96-GW032511	K-40	Suspended	7.1	9.8	3.4	4.6
RD-96	SMRD-96-GW032511	K-40	Total	16.5	NA	5.9	NA
RD-96	SMRD-96-GW032511	Na-22	Filtered	-0.35 U	1.8	0.51	0.81
RD-96	SMRD-96-GW032511	Na-22	Suspended	0 U	1	0.29	0.48
RD-96	SMRD-96-GW032511	Na-22	Total	-0.35	NA	0.59	NA
RD-96	SMRD-96-GW032511	Nb-94	Filtered	0.42 U	1.1	0.34	0.52
RD-96	SMRD-96-GW032511	Nb-94	Suspended	0.22 U	0.66	0.2	0.31
RD-96	SMRD-96-GW032511	Nb-94	Total	0.64	NA	0.39	NA
RD-96	SMRD-96-GW032511	Np-236	Filtered	-0.3 U	2.9	0.87	1.4
RD-96	SMRD-96-GW032511	Np-236	Suspended	-0.08 U	1.2	0.36	0.59
RD-96	SMRD-96-GW032511	Np-236	Total	-0.37 SK	NA	0.94	NA
RD-96	SMRD-96-GW032511	Np-239	Filtered	1.1 U	8	2.3	3.8
RD-96	SMRD-96-GW032511	Np-239	Suspended	-0.06 U	3.9	1.2	1.9
RD-96	SMRD-96-GW032511	Np-239	Total	1	NA	2.6	NA
RD-96	SMRD-96-GW032511	Pa-231	Filtered	17 U	55	16	26
RD-96	SMRD-96-GW032511	Pa-231	Suspended	-0.4 U	21	6.1	10
RD-96	SMRD-96-GW032511	Pa-231	Total	17	NA	17	NA
RD-96	SMRD-96-GW032511	Pb-212	Filtered	0.31 U	2.4	0.76	1.1
RD-96	SMRD-96-GW032511	Pb-212	Suspended	0.83	1.1	0.36	0.52
RD-96	SMRD-96-GW032511	Pb-212	Total	1.14	NA	0.84	NA
RD-96	SMRD-96-GW032511	Pb-214	Filtered	1.11 U	2.9	0.88	1.4
RD-96	SMRD-96-GW032511	Pb-214	Suspended	-0.37 U	1.6	0.57	0.77
RD-96	SMRD-96-GW032511	Pb-214	Total	0.7	NA	1	NA
RD-96	SMRD-96-GW032511	Sb-125	Filtered	2.5 U	12	3.6	5.8
RD-96	SMRD-96-GW032511	Sb-125	Suspended	0.1 U	5.8	1.7	2.8
RD-96	SMRD-96-GW032511	Sb-125	Total	2.6 SK	NA	4	NA
RD-96	SMRD-96-GW032511	Sn-126	Filtered	0.23 U	1.7	0.48	0.78
RD-96	SMRD-96-GW032511	Sn-126	Suspended	0.36 U	0.79	0.24	0.38
RD-96	SMRD-96-GW032511	Sn-126	Total	0.59	NA	0.54	NA
RD-96	SMRD-96-GW032511	Sr-90	Filtered	-0.028 U	0.17	0.048	0.096
RD-96	SMRD-96-GW032511	Sr-90	Suspended	-0.009 U	0.12	0.034	0.067

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-96	SMRD-96-GW032511	Sr-90	Total	-0.037	NA	0.059	NA
RD-96	SMRD-96-GW032511	Te-125m	Filtered	0.57 U	2.8	0.83	1.3
RD-96	SMRD-96-GW032511	Te-125m	Suspended	0.03 U	1.3	0.4	0.65
RD-96	SMRD-96-GW032511	Te-125m	Total	0.6 SK	NA	0.92	NA
RD-96	SMRD-96-GW032511	Th-231	Filtered	0.242	0.018	0.028	0.006
RD-96	SMRD-96-GW032511	Th-231	Suspended	0.0109	0.0059	0.0049	0.0045
RD-96	SMRD-96-GW032511	Th-231	Total	0.253	NA	0.028	NA
RD-96	SMRD-96-GW032511	Th-234	Filtered	5.9 U	21	6.4	10
RD-96	SMRD-96-GW032511	Th-234	Suspended	-0.9 U	7	2.2	3.4
RD-96	SMRD-96-GW032511	Th-234	Total	5	NA	6.8	NA
RD-96	SMRD-96-GW032511	Tl-208	Filtered	-0.34 U	1.7	0.67	0.8
RD-96	SMRD-96-GW032511	Tl-208	Suspended	0.73	0.78	0.34	0.38
RD-96	SMRD-96-GW032511	Tl-208	Total	0.39	NA	0.75	NA
RD-96	SMRD-96-GW032511	Tm-171	Filtered	100 U	250	77	120
RD-96	SMRD-96-GW032511	Tm-171	Suspended	4 U	110	33	55
RD-96	SMRD-96-GW032511	Tm-171	Total	104	NA	84	NA
RD-96	SMRD-96-GW032511	U-233/234	Filtered	4.1	0.01	0.2	0.005
RD-96	SMRD-96-GW032511	U-233/234	Suspended	0.107	0.017	0.015	0.006
RD-96	SMRD-96-GW032511	U-233/234	Total	4.21	NA	0.2	NA
RD-96	SMRD-96-GW032511	U-235/236	Filtered	0.242	0.018	0.028	0.006
RD-96	SMRD-96-GW032511	U-235/236	Suspended	0.0109	0.0059	0.0049	0.0045
RD-96	SMRD-96-GW032511	U-235/236	Total	0.253	NA	0.028	NA
RD-96	SMRD-96-GW032511	U-238	Filtered	3.8	0.02	0.18	0.006
RD-96	SMRD-96-GW032511	U-238	Suspended	0.062	0.014	0.012	0.005
RD-96	SMRD-96-GW032511	U-238	Total	3.86	NA	0.18	NA
RD-97	SMRD-97-GW033011	Ac-227	Filtered	-7.6 L U	11	3.5	5.5
RD-97	SMRD-97-GW033011	Ac-227	Suspended	-4 L U	5	1.6	2.5
RD-97	SMRD-97-GW033011	Ac-227	Total	-11.7 R	NA	3.8	NA
RD-97	SMRD-97-GW033011	Ac-228	Filtered	6.5	5.1	1.7	2.4
RD-97	SMRD-97-GW033011	Ac-228	Suspended	3.5	2.4	0.96	1.1
RD-97	SMRD-97-GW033011	Ac-228	Total	10	NA	2	NA
RD-97	SMRD-97-GW033011	Ag-108	Filtered	0.033 U R	0.12	0.034	0.055
RD-97	SMRD-97-GW033011	Ag-108	Suspended	-0.009 U R	0.051	0.015	0.024
RD-97	SMRD-97-GW033011	Ag-108	Total	0.024 R	NA	0.037	NA
RD-97	SMRD-97-GW033011	Ag-108m	Filtered	0.35 U R	1.2	0.37	0.59
RD-97	SMRD-97-GW033011	Ag-108m	Suspended	-0.1 U R	0.55	0.16	0.26
RD-97	SMRD-97-GW033011	Ag-108m	Total	0.25 R	NA	0.4	NA
RD-97	SMRD-97-GW033011	Am-241	Filtered	0.0119	0.018	0.0063	0.0065

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-97	SMRD-97-GW033011	Am-241	Suspended	0.0011 U	0.017	0.0041	0.0064
RD-97	SMRD-97-GW033011	Am-241	Total	0.0129	NA	0.0075	NA
RD-97	SMRD-97-GW033011	Ba-133	Filtered	0.5 U R	15	4.5	7.5
RD-97	SMRD-97-GW033011	Ba-133	Suspended	1.5 U R	6	1.8	2.9
RD-97	SMRD-97-GW033011	Ba-133	Total	2.1 R	NA	4.9	NA
RD-97	SMRD-97-GW033011	Ba-137m	Filtered	-0.37 U	1.5	0.45	0.72
RD-97	SMRD-97-GW033011	Ba-137m	Suspended	-0.007 U	0.67	0.19	0.32
RD-97	SMRD-97-GW033011	Ba-137m	Total	-0.37	NA	0.49	NA
RD-97	SMRD-97-GW033011	Bi-212	Filtered	4.8	10	3.1	4.8
RD-97	SMRD-97-GW033011	Bi-212	Suspended	1.9 U	6	1.8	2.9
RD-97	SMRD-97-GW033011	Bi-212	Total	6.7	NA	3.6	NA
RD-97	SMRD-97-GW033011	Bi-214	Filtered	1.1 U	3.9	1.6	1.8
RD-97	SMRD-97-GW033011	Bi-214	Suspended	1.12	1.9	0.81	0.9
RD-97	SMRD-97-GW033011	Bi-214	Total	2.2	NA	1.8	NA
RD-97	SMRD-97-GW033011	C-14	Total	1.18 R	2.1	0.66	1
RD-97	SMRD-97-GW033011	Cd-113m	Filtered	-5500 U	18000	5400	8700
RD-97	SMRD-97-GW033011	Cd-113m	Suspended	-600 U	7300	2200	3500
RD-97	SMRD-97-GW033011	Cd-113m	Total	-6200	NA	5800	NA
RD-97	SMRD-97-GW033011	Cf-249	Filtered	-0.7 U R	7.8	2.3	3.8
RD-97	SMRD-97-GW033011	Cf-249	Suspended	-0.82 U R	3.3	0.99	1.6
RD-97	SMRD-97-GW033011	Cf-249	Total	-1.5 R	NA	2.5	NA
RD-97	SMRD-97-GW033011	Cm-243/244	Filtered	0.0039 U	0.018	0.0047	0.0064
RD-97	SMRD-97-GW033011	Cm-243/244	Suspended	0.0003 U	0.012	0.0023	0.0036
RD-97	SMRD-97-GW033011	Cm-243/244	Total	0.0042	NA	0.0053	NA
RD-97	SMRD-97-GW033011	Cm-245/246	Filtered	0.0099 J	0.019	0.0062	0.0066
RD-97	SMRD-97-GW033011	Cm-245/246	Suspended	0.0207	0.017	0.0074	0.0059
RD-97	SMRD-97-GW033011	Cm-245/246	Total	0.0306 J	NA	0.0097	NA
RD-97	SMRD-97-GW033011	Co-60	Filtered	0.01 U	1.7	0.47	0.78
RD-97	SMRD-97-GW033011	Co-60	Suspended	0.32	0.68	0.21	0.31
RD-97	SMRD-97-GW033011	Co-60	Total	0.33	NA	0.52	NA
RD-97	SMRD-97-GW033011	Cs-134	Filtered	0.02 U	0.95	0.27	0.44
RD-97	SMRD-97-GW033011	Cs-134	Suspended	-0.22 U	0.86	0.26	0.41
RD-97	SMRD-97-GW033011	Cs-134	Total	-0.2	NA	0.37	NA
RD-97	SMRD-97-GW033011	Cs-137	Filtered	-0.39 U	1.6	0.48	0.76
RD-97	SMRD-97-GW033011	Cs-137	Suspended	-0.007 U	0.71	0.21	0.34
RD-97	SMRD-97-GW033011	Cs-137	Total	-0.4	NA	0.52	NA
RD-97	SMRD-97-GW033011	Eu-152	Filtered	0.1 U	3.7	1.1	1.8
RD-97	SMRD-97-GW033011	Eu-152	Suspended	0.22 U	1.4	0.42	0.69

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-97	SMRD-97-GW033011	Eu-152	Total	0.3	NA	1.2	NA
RD-97	SMRD-97-GW033011	Eu-154	Filtered	-0.9 U	13	3.6	5.9
RD-97	SMRD-97-GW033011	Eu-154	Suspended	0.8 U	6.4	1.9	3
RD-97	SMRD-97-GW033011	Eu-154	Total	-0.08	NA	4.1	NA
RD-97	SMRD-97-GW033011	Eu-155	Filtered	0 U	4.2	1.3	2.1
RD-97	SMRD-97-GW033011	Eu-155	Suspended	0.26 U	1.2	0.36	0.59
RD-97	SMRD-97-GW033011	Eu-155	Total	0.3	NA	1.3	NA
RD-97	SMRD-97-GW033011	gross_alpha	Filtered	6.24 J	0.59	0.57	0.31
RD-97	SMRD-97-GW033011	gross_alpha	Suspended	2.97	0.56	0.37	0.3
RD-97	SMRD-97-GW033011	gross_alpha	Total	9.2 J	NA	0.68	NA
RD-97	SMRD-97-GW033011	gross_beta	Filtered	4.09 R	1.1	0.51	0.64
RD-97	SMRD-97-GW033011	gross_beta	Suspended	1.58	0.7	0.28	0.41
RD-97	SMRD-97-GW033011	gross_beta	Total	5.67 R	NA	0.58	NA
RD-97	SMRD-97-GW033011	H-3	Total	10 U	140	40	66
RD-97	SMRD-97-GW033011	Ho-166m	Filtered	-0.3 U	2.5	0.71	1.2
RD-97	SMRD-97-GW033011	Ho-166m	Suspended	0.16 U	1.2	0.34	0.56
RD-97	SMRD-97-GW033011	Ho-166m	Total	-0.14	NA	0.79	NA
RD-97	SMRD-97-GW033011	I-129	Filtered	-0.08 U	0.57	0.17	0.28
RD-97	SMRD-97-GW033011	I-129	Suspended	0.02 U	0.47	0.14	0.23
RD-97	SMRD-97-GW033011	I-129	Total	-0.06	NA	0.22	NA
RD-97	SMRD-97-GW033011	K-40	Filtered	25.3	20	7.3	9.5
RD-97	SMRD-97-GW033011	K-40	Suspended	-2 U	11	3.4	5.3
RD-97	SMRD-97-GW033011	K-40	Total	23.3	NA	8.1	NA
RD-97	SMRD-97-GW033011	Na-22	Filtered	0.06 U	1.5	0.41	0.68
RD-97	SMRD-97-GW033011	Na-22	Suspended	0.01 U	0.62	0.17	0.29
RD-97	SMRD-97-GW033011	Na-22	Total	0.07	NA	0.45	NA
RD-97	SMRD-97-GW033011	Nb-94	Filtered	-0.28 U	1.4	0.41	0.66
RD-97	SMRD-97-GW033011	Nb-94	Suspended	0.001 U	0.66	0.19	0.31
RD-97	SMRD-97-GW033011	Nb-94	Total	-0.28	NA	0.45	NA
RD-97	SMRD-97-GW033011	Np-236	Filtered	0.45 U	2.8	0.82	1.3
RD-97	SMRD-97-GW033011	Np-236	Suspended	-0.33 U	1.3	0.38	0.62
RD-97	SMRD-97-GW033011	Np-236	Total	0.12	NA	0.91	NA
RD-97	SMRD-97-GW033011	Np-237	Filtered	-0.0024 U	0.026	0.0024	0.0055
RD-97	SMRD-97-GW033011	Np-237	Suspended	-0.002 U	0.022	0.002	0.0056
RD-97	SMRD-97-GW033011	Np-237	Total	-0.0044	NA	0.0031	NA
RD-97	SMRD-97-GW033011	Np-239	Filtered	-2.4 U	9.5	2.9	4.6
RD-97	SMRD-97-GW033011	Np-239	Suspended	0.3 U	3.9	1.1	1.9
RD-97	SMRD-97-GW033011	Np-239	Total	-2	NA	3.1	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-97	SMRD-97-GW033011	Pa-231	Filtered	0 U	73	21	35
RD-97	SMRD-97-GW033011	Pa-231	Suspended	-4 U	28	8.3	14
RD-97	SMRD-97-GW033011	Pa-231	Total	-4	NA	23	NA
RD-97	SMRD-97-GW033011	Pb-212	Filtered	0.84 U	2.5	0.75	1.2
RD-97	SMRD-97-GW033011	Pb-212	Suspended	1.27	1.1	0.42	0.55
RD-97	SMRD-97-GW033011	Pb-212	Total	2.11	NA	0.86	NA
RD-97	SMRD-97-GW033011	Pb-214	Filtered	1.3 U	3.2	1.2	1.5
RD-97	SMRD-97-GW033011	Pb-214	Suspended	-0.4 U	1.4	0.59	0.68
RD-97	SMRD-97-GW033011	Pb-214	Total	0.9	NA	1.3	NA
RD-97	SMRD-97-GW033011	Pu-238	Filtered	0.0032 U	0.019	0.005	0.0071
RD-97	SMRD-97-GW033011	Pu-238	Suspended	0.0176	0.011	0.0056	0.0034
RD-97	SMRD-97-GW033011	Pu-238	Total	0.0207	NA	0.0075	NA
RD-97	SMRD-97-GW033011	Pu-239/240	Filtered	0.004 U	0.0053	0.0028	0.0046
RD-97	SMRD-97-GW033011	Pu-239/240	Suspended	0.0029 U	0.004	0.0021	0.0038
RD-97	SMRD-97-GW033011	Pu-239/240	Total	0.0069	NA	0.0035	NA
RD-97	SMRD-97-GW033011	Pu-242	Filtered	0 U	0.0053	0.002	0.0046
RD-97	SMRD-97-GW033011	Pu-242	Suspended	-0.0044 U	0.016	0.0028	0.0059
RD-97	SMRD-97-GW033011	Pu-242	Total	-0.0044	NA	0.0035	NA
RD-97	SMRD-97-GW033011	Ra-226	Filtered	1.28	0.14	0.13	0.07
RD-97	SMRD-97-GW033011	Ra-226	Suspended	1.03	0.22	0.13	0.12
RD-97	SMRD-97-GW033011	Ra-226	Total	2.31	NA	0.18	NA
RD-97	SMRD-97-GW033011	Sb-125	Filtered	1.7 U	15	4.5	7.3
RD-97	SMRD-97-GW033011	Sb-125	Suspended	0.5 U	5.7	1.7	2.7
RD-97	SMRD-97-GW033011	Sb-125	Total	2.2	NA	4.8	NA
RD-97	SMRD-97-GW033011	Sn-126	Filtered	-0.14 U	1.6	0.47	0.76
RD-97	SMRD-97-GW033011	Sn-126	Suspended	0.26 U	0.72	0.22	0.34
RD-97	SMRD-97-GW033011	Sn-126	Total	0.12	NA	0.52	NA
RD-97	SMRD-97-GW033011	Sr-90	Filtered	0.073 U	0.17	0.051	0.096
RD-97	SMRD-97-GW033011	Sr-90	Suspended	0.152	0.091	0.031	0.051
RD-97	SMRD-97-GW033011	Sr-90	Total	0.226	NA	0.06	NA
RD-97	SMRD-97-GW033011	Tc-99	Filtered	-0.14 U	1.2	0.38	0.62
RD-97	SMRD-97-GW033011	Tc-99	Suspended	0.09 U	1.5	0.44	0.73
RD-97	SMRD-97-GW033011	Tc-99	Total	-0.05	NA	0.58	NA
RD-97	SMRD-97-GW033011	Te-125m	Filtered	0.4 U	3.5	1	1.7
RD-97	SMRD-97-GW033011	Te-125m	Suspended	0.12 U	1.3	0.39	0.63
RD-97	SMRD-97-GW033011	Te-125m	Total	0.5	NA	1.1	NA
RD-97	SMRD-97-GW033011	Th-231	Filtered	0.175	0.007	0.023	0.006
RD-97	SMRD-97-GW033011	Th-231	Suspended	0.0005 U	0.017	0.0033	0.0054

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-97	SMRD-97-GW033011	Th-231	Total	0.175	NA	0.023	NA
RD-97	SMRD-97-GW033011	Th-234	Filtered	4.3 U	25	7.8	12
RD-97	SMRD-97-GW033011	Th-234	Suspended	1 U	7.6	2.5	3.7
RD-97	SMRD-97-GW033011	Th-234	Total	5.3	NA	8.2	NA
RD-97	SMRD-97-GW033011	Tl-208	Filtered	0.28 U	1.6	0.51	0.75
RD-97	SMRD-97-GW033011	Tl-208	Suspended	1.08	0.75	0.32	0.36
RD-97	SMRD-97-GW033011	Tl-208	Total	1.35	NA	0.6	NA
RD-97	SMRD-97-GW033011	Tm-171	Filtered	120 U	450	130	220
RD-97	SMRD-97-GW033011	Tm-171	Suspended	1 U	120	34	56
RD-97	SMRD-97-GW033011	Tm-171	Total	130	NA	140	NA
RD-97	SMRD-97-GW033011	U-233/234	Filtered	3.77	0.006	0.18	0.005
RD-97	SMRD-97-GW033011	U-233/234	Suspended	0.149	0.02	0.02	0.008
RD-97	SMRD-97-GW033011	U-233/234	Total	3.92	NA	0.18	NA
RD-97	SMRD-97-GW033011	U-235/236	Filtered	0.175	0.007	0.023	0.006
RD-97	SMRD-97-GW033011	U-235/236	Suspended	0.0005 U	0.017	0.0033	0.0054
RD-97	SMRD-97-GW033011	U-235/236	Total	0.175	NA	0.023	NA
RD-97	SMRD-97-GW033011	U-238	Filtered	3.46	0.006	0.17	0.005
RD-97	SMRD-97-GW033011	U-238	Suspended	0.144	0.006	0.019	0.004
RD-97	SMRD-97-GW033011	U-238	Total	3.61	NA	0.17	NA
RD-98	SMRD-98-GW041911	Ac-227	Filtered	2.5 U	6.1	1.8	2.9
RD-98	SMRD-98-GW041911	Ac-227	Suspended	-0.4 U	3.7	1.1	1.8
RD-98	SMRD-98-GW041911	Ac-227	Total	2.1	NA	2.1	NA
RD-98	SMRD-98-GW041911	Ac-228	Filtered	2.7	3.2	1	1.5
RD-98	SMRD-98-GW041911	Ac-228	Suspended	1.94	1.9	0.64	0.87
RD-98	SMRD-98-GW041911	Ac-228	Total	4.6	NA	1.2	NA
RD-98	SMRD-98-GW041911	Ag-108	Filtered	-0.0004 U R	0.099	0.029	0.047
RD-98	SMRD-98-GW041911	Ag-108	Suspended	0.0052 U R	0.034	0.0096	0.015
RD-98	SMRD-98-GW041911	Ag-108	Total	0.005 R	NA	0.03	NA
RD-98	SMRD-98-GW041911	Ag-108m	Filtered	-0.004 U R	1.1	0.31	0.51
RD-98	SMRD-98-GW041911	Ag-108m	Suspended	0.06 U R	0.36	0.1	0.17
RD-98	SMRD-98-GW041911	Ag-108m	Total	0.05 R	NA	0.33	NA
RD-98	SMRD-98-GW041911	Am-241	Filtered	0.0036 U	0.019	0.005	0.0072
RD-98	SMRD-98-GW041911	Am-241	Suspended	-0.0003 U	0.018	0.0043	0.0072
RD-98	SMRD-98-GW041911	Am-241	Total	0.0032	NA	0.0066	NA
RD-98	SMRD-98-GW041911	Ba-133	Filtered	0.7 U R	12	3.6	5.8
RD-98	SMRD-98-GW041911	Ba-133	Suspended	-1.1 U R	5.6	1.7	2.7
RD-98	SMRD-98-GW041911	Ba-133	Total	-0.3 R	NA	3.9	NA
RD-98	SMRD-98-GW041911	Ba-137m	Filtered	-0.01 U	1	0.28	0.47

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-98-GW041911	Ba-137m	Suspended	0.11 U	0.59	0.17	0.27
RD-98	SMRD-98-GW041911	Ba-137m	Total	0.1	NA	0.33	NA
RD-98	SMRD-98-GW041911	Bi-212	Filtered	2.8 U	9.7	2.9	4.6
RD-98	SMRD-98-GW041911	Bi-212	Suspended	1.6 U	4.5	1.3	2.1
RD-98	SMRD-98-GW041911	Bi-212	Total	4.4	NA	3.2	NA
RD-98	SMRD-98-GW041911	Bi-214	Filtered	0.42 U	2.8	0.99	1.3
RD-98	SMRD-98-GW041911	Bi-214	Suspended	1.19	1.5	0.56	0.7
RD-98	SMRD-98-GW041911	Bi-214	Total	1.6	NA	1.1	NA
RD-98	SMRD-98-GW041911	C-14	Total	0.78 U R	2.2	0.68	1.1
RD-98	SMRD-98-GW041911	Cd-113m	Filtered	1200 U	15000	4400	7200
RD-98	SMRD-98-GW041911	Cd-113m	Suspended	-2600 U	7200	2200	3400
RD-98	SMRD-98-GW041911	Cd-113m	Total	-1400	NA	4900	NA
RD-98	SMRD-98-GW041911	Cf-249	Filtered	-1.2 U R	6.1	1.8	2.9
RD-98	SMRD-98-GW041911	Cf-249	Suspended	0.62 U R	2.7	0.8	1.3
RD-98	SMRD-98-GW041911	Cf-249	Total	-0.5 R	NA	2	NA
RD-98	SMRD-98-GW041911	Cm-243/244	Filtered	0.0087 U	0.026	0.0076	0.011
RD-98	SMRD-98-GW041911	Cm-243/244	Suspended	-0.001 U	0.014	0.0027	0.005
RD-98	SMRD-98-GW041911	Cm-243/244	Total	0.0077	NA	0.0081	NA
RD-98	SMRD-98-GW041911	Cm-245/246	Filtered	0.009 J	0.0061	0.0045	0.0052
RD-98	SMRD-98-GW041911	Cm-245/246	Suspended	0.0122	0.013	0.0055	0.0041
RD-98	SMRD-98-GW041911	Cm-245/246	Total	0.0211 J	NA	0.0071	NA
RD-98	SMRD-98-GW041911	Co-60	Filtered	0.41 U	1.3	0.38	0.59
RD-98	SMRD-98-GW041911	Co-60	Suspended	0.26 U	0.74	0.22	0.33
RD-98	SMRD-98-GW041911	Co-60	Total	0.67	NA	0.44	NA
RD-98	SMRD-98-GW041911	Cs-134	Filtered	0.03 U	1.2	0.35	0.58
RD-98	SMRD-98-GW041911	Cs-134	Suspended	-0.19 U	0.68	0.2	0.32
RD-98	SMRD-98-GW041911	Cs-134	Total	-0.16	NA	0.41	NA
RD-98	SMRD-98-GW041911	Cs-137	Filtered	-0.01 U	1.1	0.3	0.49
RD-98	SMRD-98-GW041911	Cs-137	Suspended	0.12 U	0.63	0.18	0.29
RD-98	SMRD-98-GW041911	Cs-137	Total	0.11	NA	0.35	NA
RD-98	SMRD-98-GW041911	Eu-152	Filtered	-0.17 U	3.4	0.99	1.6
RD-98	SMRD-98-GW041911	Eu-152	Suspended	0.57 U	1.6	0.47	0.74
RD-98	SMRD-98-GW041911	Eu-152	Total	0.4	NA	1.1	NA
RD-98	SMRD-98-GW041911	Eu-154	Filtered	-0.01 U	10	2.9	4.7
RD-98	SMRD-98-GW041911	Eu-154	Suspended	1.3 U	5.5	1.6	2.5
RD-98	SMRD-98-GW041911	Eu-154	Total	1.3	NA	3.3	NA
RD-98	SMRD-98-GW041911	Eu-155	Filtered	0.3 U	3.4	1	1.7
RD-98	SMRD-98-GW041911	Eu-155	Suspended	-0.01 U	0.79	0.23	0.38

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-98-GW041911	Eu-155	Total	0.3	NA	1	NA
RD-98	SMRD-98-GW041911	gross_alpha	Filtered	6.05 J	0.67	0.57	0.37
RD-98	SMRD-98-GW041911	gross_alpha	Suspended	0.99	0.51	0.23	0.26
RD-98	SMRD-98-GW041911	gross_alpha	Total	7.04 J	NA	0.61	NA
RD-98	SMRD-98-GW041911	gross_beta	Filtered	325 R	1	12	0.6
RD-98	SMRD-98-GW041911	gross_beta	Suspended	1.5	0.84	0.31	0.5
RD-98	SMRD-98-GW041911	gross_beta	Total	327 R	NA	12	NA
RD-98	SMRD-98-GW041911	H-3	Total	23 U	120	36	58
RD-98	SMRD-98-GW041911	Ho-166m	Filtered	-0.11 U	1.6	0.47	0.76
RD-98	SMRD-98-GW041911	Ho-166m	Suspended	-0.01 U	1.1	0.3	0.5
RD-98	SMRD-98-GW041911	Ho-166m	Total	-0.12	NA	0.56	NA
RD-98	SMRD-98-GW041911	I-129	Filtered	0.21 U	0.58	0.18	0.29
RD-98	SMRD-98-GW041911	I-129	Suspended	0.2 U	0.56	0.17	0.28
RD-98	SMRD-98-GW041911	I-129	Total	0.41	NA	0.24	NA
RD-98	SMRD-98-GW041911	K-40	Filtered	-2.1 U	18	5.3	8.5
RD-98	SMRD-98-GW041911	K-40	Suspended	5.9	8.5	2.1	3.8
RD-98	SMRD-98-GW041911	K-40	Total	3.8	NA	5.7	NA
RD-98	SMRD-98-GW041911	Na-22	Filtered	0.12 U	1.2	0.33	0.54
RD-98	SMRD-98-GW041911	Na-22	Suspended	0.2 U	0.72	0.21	0.32
RD-98	SMRD-98-GW041911	Na-22	Total	0.32	NA	0.39	NA
RD-98	SMRD-98-GW041911	Nb-94	Filtered	0.22 U	1	0.3	0.48
RD-98	SMRD-98-GW041911	Nb-94	Suspended	0.04 U	0.61	0.17	0.28
RD-98	SMRD-98-GW041911	Nb-94	Total	0.26	NA	0.35	NA
RD-98	SMRD-98-GW041911	Np-236	Filtered	-0.04 U	3	0.87	1.4
RD-98	SMRD-98-GW041911	Np-236	Suspended	0.1 U	1	0.31	0.5
RD-98	SMRD-98-GW041911	Np-236	Total	0.06	NA	0.93	NA
RD-98	SMRD-98-GW041911	Np-237	Filtered	0 U	0.011	0.0028	0.0056
RD-98	SMRD-98-GW041911	Np-237	Suspended	0 U	0.01	0.0027	0.0056
RD-98	SMRD-98-GW041911	Np-237	Total	0	NA	0.0039	NA
RD-98	SMRD-98-GW041911	Np-239	Filtered	-2.5 U	8.4	2.5	4.1
RD-98	SMRD-98-GW041911	Np-239	Suspended	0.9 U	3.4	1	1.6
RD-98	SMRD-98-GW041911	Np-239	Total	-1.6	NA	2.7	NA
RD-98	SMRD-98-GW041911	Pa-231	Filtered	-3 U	55	16	27
RD-98	SMRD-98-GW041911	Pa-231	Suspended	6.5 U	24	7.3	12
RD-98	SMRD-98-GW041911	Pa-231	Total	4	NA	18	NA
RD-98	SMRD-98-GW041911	Pb-212	Filtered	0.35 U	2.4	0.81	1.2
RD-98	SMRD-98-GW041911	Pb-212	Suspended	0.48 U	1.1	0.39	0.53
RD-98	SMRD-98-GW041911	Pb-212	Total	0.84	NA	0.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-98-GW041911	Pb-214	Filtered	0.98 U	2.7	0.76	1.3
RD-98	SMRD-98-GW041911	Pb-214	Suspended	0 U	1.3	0.38	0.6
RD-98	SMRD-98-GW041911	Pb-214	Total	0.98	NA	0.85	NA
RD-98	SMRD-98-GW041911	Pu-238	Filtered	0.003 U	0.018	0.0045	0.0062
RD-98	SMRD-98-GW041911	Pu-238	Suspended	0.0063	0.015	0.0046	0.0052
RD-98	SMRD-98-GW041911	Pu-238	Total	0.0093	NA	0.0065	NA
RD-98	SMRD-98-GW041911	Pu-239/240	Filtered	-0.0017 U	0.014	0.0019	0.0044
RD-98	SMRD-98-GW041911	Pu-239/240	Suspended	-0.0016 U	0.012	0.0018	0.0037
RD-98	SMRD-98-GW041911	Pu-239/240	Total	-0.0033	NA	0.0026	NA
RD-98	SMRD-98-GW041911	Pu-242	Filtered	0.0042 U	0.0057	0.003	0.0049
RD-98	SMRD-98-GW041911	Pu-242	Suspended	0.0032 U	0.012	0.0033	0.0037
RD-98	SMRD-98-GW041911	Pu-242	Total	0.0074	NA	0.0044	NA
RD-98	SMRD-98-GW041911	Ra-226	Filtered	0.339	0.12	0.065	0.059
RD-98	SMRD-98-GW041911	Ra-226	Suspended	0.156	0.19	0.064	0.1
RD-98	SMRD-98-GW041911	Ra-226	Total	0.495	NA	0.092	NA
RD-98	SMRD-98-GW041911	Sb-125	Filtered	-2.6 U	14	4	6.6
RD-98	SMRD-98-GW041911	Sb-125	Suspended	-1.3 U	5.2	1.6	2.5
RD-98	SMRD-98-GW041911	Sb-125	Total	-3.8	NA	4.3	NA
RD-98	SMRD-98-GW041911	Sn-126	Filtered	0 U	1.5	0.42	0.69
RD-98	SMRD-98-GW041911	Sn-126	Suspended	0.34	0.66	0.2	0.31
RD-98	SMRD-98-GW041911	Sn-126	Total	0.34	NA	0.47	NA
RD-98	SMRD-98-GW041911	Sr-90	Filtered	183	0.3	7.7	0.2
RD-98	SMRD-98-GW041911	Sr-90	Suspended	0.16	0.084	0.03	0.048
RD-98	SMRD-98-GW041911	Sr-90	Total	183	NA	7.7	NA
RD-98	SMRD-98-GW041911	Tc-99	Filtered	-0.33 U	1.5	0.47	0.77
RD-98	SMRD-98-GW041911	Tc-99	Suspended	0.09 U	1.5	0.44	0.72
RD-98	SMRD-98-GW041911	Tc-99	Total	-0.24	NA	0.64	NA
RD-98	SMRD-98-GW041911	Te-125m	Filtered	-0.59 U	3.1	0.93	1.5
RD-98	SMRD-98-GW041911	Te-125m	Suspended	-0.3 U	1.2	0.36	0.58
RD-98	SMRD-98-GW041911	Te-125m	Total	-0.89	NA	0.999	NA
RD-98	SMRD-98-GW041911	Th-231	Filtered	0.182	0.007	0.023	0.005
RD-98	SMRD-98-GW041911	Th-231	Suspended	0.0074	0.015	0.005	0.0048
RD-98	SMRD-98-GW041911	Th-231	Total	0.19	NA	0.023	NA
RD-98	SMRD-98-GW041911	Th-234	Filtered	-1.5 U	22	8	11
RD-98	SMRD-98-GW041911	Th-234	Suspended	7	6.6	2.3	3.2
RD-98	SMRD-98-GW041911	Th-234	Total	5.5	NA	8.3	NA
RD-98	SMRD-98-GW041911	Tl-208	Filtered	-0.12 U	1.6	0.47	0.75
RD-98	SMRD-98-GW041911	Tl-208	Suspended	0.62	0.74	0.28	0.35

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RD-98	SMRD-98-GW041911	Tl-208	Total	0.5	NA	0.55	NA
RD-98	SMRD-98-GW041911	Tm-171	Filtered	300	360	110	170
RD-98	SMRD-98-GW041911	Tm-171	Suspended	-15 U	94	28	45
RD-98	SMRD-98-GW041911	Tm-171	Total	290	NA	110	NA
RD-98	SMRD-98-GW041911	U-233/234	Filtered	4.82	0.01	0.23	0.004
RD-98	SMRD-98-GW041911	U-233/234	Suspended	0.008	0.0051	0.0059	0.0039
RD-98	SMRD-98-GW041911	U-233/234	Total	4.83	NA	0.23	NA
RD-98	SMRD-98-GW041911	U-235/236	Filtered	0.182	0.007	0.023	0.005
RD-98	SMRD-98-GW041911	U-235/236	Suspended	0.0074	0.015	0.005	0.0048
RD-98	SMRD-98-GW041911	U-235/236	Total	0.19	NA	0.023	NA
RD-98	SMRD-98-GW041911	U-238	Filtered	1.54	0.006	0.086	0.004
RD-98	SMRD-98-GW041911	U-238	Suspended	0.0204	0.012	0.0077	0.0039
RD-98	SMRD-98-GW041911	U-238	Total	1.56	NA	0.086	NA
RS-11	SMRS-11-GW033111	Ac-227	Filtered	-5.8 U	12	3.7	6
RS-11	SMRS-11-GW033111	Ac-227	Suspended	-0.6 U	4.2	1.3	2
RS-11	SMRS-11-GW033111	Ac-227	Total	-6.4	NA	4	NA
RS-11	SMRS-11-GW033111	Ac-228	Filtered	3.2	5	1.5	2.3
RS-11	SMRS-11-GW033111	Ac-228	Suspended	-2.3 U	3.2	4.2	1.5
RS-11	SMRS-11-GW033111	Ac-228	Total	0.9	NA	4.5	NA
RS-11	SMRS-11-GW033111	Ag-108	Filtered	0.019 U R	0.12	0.036	0.058
RS-11	SMRS-11-GW033111	Ag-108	Suspended	-0.006 U R	0.055	0.016	0.026
RS-11	SMRS-11-GW033111	Ag-108	Total	0.013 R	NA	0.039	NA
RS-11	SMRS-11-GW033111	Ag-108m	Filtered	0.2 U R	1.3	0.38	0.62
RS-11	SMRS-11-GW033111	Ag-108m	Suspended	-0.06 U R	0.59	0.17	0.28
RS-11	SMRS-11-GW033111	Ag-108m	Total	0.14 R	NA	0.42	NA
RS-11	SMRS-11-GW033111	Ba-133	Filtered	-5.2 U R	15	4.4	7.1
RS-11	SMRS-11-GW033111	Ba-133	Suspended	-0.2 U R	5.8	1.7	2.8
RS-11	SMRS-11-GW033111	Ba-133	Total	-5.5 R	NA	4.7	NA
RS-11	SMRS-11-GW033111	Ba-137m	Filtered	-0.28 U	1.6	0.47	0.76
RS-11	SMRS-11-GW033111	Ba-137m	Suspended	-0.06 U	0.8	0.23	0.38
RS-11	SMRS-11-GW033111	Ba-137m	Total	-0.34	NA	0.52	NA
RS-11	SMRS-11-GW033111	Bi-212	Filtered	-0.6 U	10	3	4.9
RS-11	SMRS-11-GW033111	Bi-212	Suspended	2.7	5.2	1.6	2.4
RS-11	SMRS-11-GW033111	Bi-212	Total	2.1	NA	3.4	NA
RS-11	SMRS-11-GW033111	Bi-214	Filtered	-0.6 U	4.1	1.3	2
RS-11	SMRS-11-GW033111	Bi-214	Suspended	1.2	1.8	0.75	0.86
RS-11	SMRS-11-GW033111	Bi-214	Total	0.6	NA	1.5	NA
RS-11	SMRS-11-GW033111	Cd-113m	Filtered	-1400 U	18000	5300	8700

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-11	SMRS-11-GW033111	Cd-113m	Suspended	-100 U	5700	1700	2700
RS-11	SMRS-11-GW033111	Cd-113m	Total	-1500	NA	5500	NA
RS-11	SMRS-11-GW033111	Cf-249	Filtered	-2.4 U R	7.6	2.3	3.7
RS-11	SMRS-11-GW033111	Cf-249	Suspended	0.34 U R	3.1	0.91	1.5
RS-11	SMRS-11-GW033111	Cf-249	Total	-2 R	NA	2.5	NA
RS-11	SMRS-11-GW033111	Co-60	Filtered	0.25 U	1.6	0.44	0.7
RS-11	SMRS-11-GW033111	Co-60	Suspended	0.009 U	0.7	0.2	0.32
RS-11	SMRS-11-GW033111	Co-60	Total	0.26	NA	0.48	NA
RS-11	SMRS-11-GW033111	Cs-134	Filtered	-0.07 U	1.6	0.48	0.79
RS-11	SMRS-11-GW033111	Cs-134	Suspended	0.33 U	0.79	0.24	0.38
RS-11	SMRS-11-GW033111	Cs-134	Total	0.26	NA	0.54	NA
RS-11	SMRS-11-GW033111	Cs-137	Filtered	-0.3 U	1.7	0.5	0.8
RS-11	SMRS-11-GW033111	Cs-137	Suspended	-0.06 U	0.84	0.25	0.4
RS-11	SMRS-11-GW033111	Cs-137	Total	-0.36	NA	0.55	NA
RS-11	SMRS-11-GW033111	Eu-152	Filtered	-0.4 U	4.4	1.3	2.1
RS-11	SMRS-11-GW033111	Eu-152	Suspended	0.28 U	1.7	0.51	0.83
RS-11	SMRS-11-GW033111	Eu-152	Total	-0.1	NA	1.4	NA
RS-11	SMRS-11-GW033111	Eu-154	Filtered	-0.8 U	16	4.6	7.5
RS-11	SMRS-11-GW033111	Eu-154	Suspended	0.008 U	5.5	1.6	2.6
RS-11	SMRS-11-GW033111	Eu-154	Total	-0.7	NA	4.8	NA
RS-11	SMRS-11-GW033111	Eu-155	Filtered	-0.03 U	3.7	1.1	1.8
RS-11	SMRS-11-GW033111	Eu-155	Suspended	0.43 U	1.3	0.39	0.63
RS-11	SMRS-11-GW033111	Eu-155	Total	0.4	NA	1.1	NA
RS-11	SMRS-11-GW033111	gross_alpha	Filtered	45.2	0.4	2.2	0.2
RS-11	SMRS-11-GW033111	gross_alpha	Suspended	0.82	0.42	0.19	0.22
RS-11	SMRS-11-GW033111	gross_alpha	Total	27.2	NA	1.5	NA
RS-11	SMRS-11-GW033111	gross_beta	Filtered	9.4	6.2	2.4	3.5
RS-11	SMRS-11-GW033111	gross_beta	Suspended	0.75	0.91	0.3	0.54
RS-11	SMRS-11-GW033111	gross_beta	Total	10.2	NA	2.4	NA
RS-11	SMRS-11-GW033111	H-3	Total	-30 U	180	54	90
RS-11	SMRS-11-GW033111	Ho-166m	Filtered	-0.81 U	2.8	0.83	1.3
RS-11	SMRS-11-GW033111	Ho-166m	Suspended	0.18 U	0.95	0.28	0.45
RS-11	SMRS-11-GW033111	Ho-166m	Total	-0.63	NA	0.88	NA
RS-11	SMRS-11-GW033111	K-40	Filtered	1.2 U	22	6.4	10
RS-11	SMRS-11-GW033111	K-40	Suspended	-7.7 U	13	4.7	6.2
RS-11	SMRS-11-GW033111	K-40	Total	-6.5	NA	7.9	NA
RS-11	SMRS-11-GW033111	Na-22	Filtered	-0.31 U	1.9	0.55	0.87
RS-11	SMRS-11-GW033111	Na-22	Suspended	-0.13 U	0.82	0.24	0.38

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-11	SMRS-11-GW033111	Na-22	Total	-0.44	NA	0.6	NA
RS-11	SMRS-11-GW033111	Nb-94	Filtered	0 U	1.5	0.44	0.72
RS-11	SMRS-11-GW033111	Nb-94	Suspended	-0.09 U	0.55	0.16	0.26
RS-11	SMRS-11-GW033111	Nb-94	Total	-0.09	NA	0.47	NA
RS-11	SMRS-11-GW033111	Np-236	Filtered	-0.3 U	3.6	1.1	1.8
RS-11	SMRS-11-GW033111	Np-236	Suspended	-0.3 U	1.3	0.39	0.63
RS-11	SMRS-11-GW033111	Np-236	Total	-0.6	NA	1.1	NA
RS-11	SMRS-11-GW033111	Np-239	Filtered	2.2 U	9.1	2.7	4.4
RS-11	SMRS-11-GW033111	Np-239	Suspended	-0.1 U	3.9	1.1	1.9
RS-11	SMRS-11-GW033111	Np-239	Total	2.1	NA	3	NA
RS-11	SMRS-11-GW033111	Pa-231	Filtered	5 U	65	19	31
RS-11	SMRS-11-GW033111	Pa-231	Suspended	-5.4 U	27	8	13
RS-11	SMRS-11-GW033111	Pa-231	Total	-0.5	NA	21	NA
RS-11	SMRS-11-GW033111	Pb-212	Filtered	1.28 U	2.9	0.94	1.4
RS-11	SMRS-11-GW033111	Pb-212	Suspended	0.27 U	1	0.33	0.51
RS-11	SMRS-11-GW033111	Pb-212	Total	1.55	NA	0.997	NA
RS-11	SMRS-11-GW033111	Pb-214	Filtered	0.51 U	3	0.95	1.5
RS-11	SMRS-11-GW033111	Pb-214	Suspended	1.1	1.4	0.56	0.68
RS-11	SMRS-11-GW033111	Pb-214	Total	1.6	NA	1.1	NA
RS-11	SMRS-11-GW033111	Sb-125	Filtered	0.4 U	16	4.6	7.6
RS-11	SMRS-11-GW033111	Sb-125	Suspended	-0.009 U	5.9	1.8	2.9
RS-11	SMRS-11-GW033111	Sb-125	Total	0.4	NA	4.9	NA
RS-11	SMRS-11-GW033111	Sn-126	Filtered	0.72 U	1.6	0.5	0.77
RS-11	SMRS-11-GW033111	Sn-126	Suspended	-0.002 U	0.87	0.25	0.42
RS-11	SMRS-11-GW033111	Sn-126	Total	0.72	NA	0.56	NA
RS-11	SMRS-11-GW033111	Sr-90	Filtered	0.0005 U	0.13	0.038	0.075
RS-11	SMRS-11-GW033111	Sr-90	Suspended	-0.037 U	0.07	0.019	0.04
RS-11	SMRS-11-GW033111	Sr-90	Total	-0.037	NA	0.042	NA
RS-11	SMRS-11-GW033111	Te-125m	Filtered	0.09 U	3.6	1.1	1.8
RS-11	SMRS-11-GW033111	Te-125m	Suspended	-0.002 U	1.4	0.4	0.67
RS-11	SMRS-11-GW033111	Te-125m	Total	0.09	NA	1.1	NA
RS-11	SMRS-11-GW033111	Th-231	Filtered	1.47	0.01	0.096	0.008
RS-11	SMRS-11-GW033111	Th-231	Suspended	0.0025 U	0.0069	0.0025	0.0053
RS-11	SMRS-11-GW033111	Th-231	Total	1.47	NA	0.096	NA
RS-11	SMRS-11-GW033111	Th-234	Filtered	23.2	28	6.3	14
RS-11	SMRS-11-GW033111	Th-234	Suspended	-1.8 U	8.8	2.9	4.3
RS-11	SMRS-11-GW033111	Th-234	Total	21.4	NA	6.9	NA
RS-11	SMRS-11-GW033111	Tl-208	Filtered	0.13 U	2	0.52	0.94

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-11	SMRS-11-GW033111	Tl-208	Suspended	0.2 U	0.78	0.27	0.37
RS-11	SMRS-11-GW033111	Tl-208	Total	0.33	NA	0.59	NA
RS-11	SMRS-11-GW033111	Tm-171	Filtered	40 U	480	140	240
RS-11	SMRS-11-GW033111	Tm-171	Suspended	23 U	120	36	59
RS-11	SMRS-11-GW033111	Tm-171	Total	60	NA	150	NA
RS-11	SMRS-11-GW033111	U-233/234	Filtered	30.9	0.02	1.3	0.006
RS-11	SMRS-11-GW033111	U-233/234	Suspended	0.0218	0.0055	0.0082	0.0043
RS-11	SMRS-11-GW033111	U-233/234	Total	30.9	NA	1.3	NA
RS-11	SMRS-11-GW033111	U-235/236	Filtered	1.47	0.01	0.096	0.008
RS-11	SMRS-11-GW033111	U-235/236	Suspended	0.0025 U	0.0069	0.0025	0.0053
RS-11	SMRS-11-GW033111	U-235/236	Total	1.47	NA	0.096	NA
RS-11	SMRS-11-GW033111	U-238	Filtered	28.1	0.02	1.2	0.006
RS-11	SMRS-11-GW033111	U-238	Suspended	0.0144	0.0055	0.0068	0.0042
RS-11	SMRS-11-GW033111	U-238	Total	28.1	NA	1.2	NA
RS-16	SMRS-16-GW033011	Ac-227	Filtered	-3.3 U	9.2	2.8	4.4
RS-16	SMRS-16-GW033011	Ac-227	Suspended	-2.3 U	4.2	1.3	2.1
RS-16	SMRS-16-GW033011	Ac-227	Total	-5.6	NA	3.1	NA
RS-16	SMRS-16-GW033011	Ac-228	Filtered	2.9	4.9	1.5	2.2
RS-16	SMRS-16-GW033011	Ac-228	Suspended	0.13 U	3.1	0.83	1.5
RS-16	SMRS-16-GW033011	Ac-228	Total	3	NA	1.7	NA
RS-16	SMRS-16-GW033011	Ag-108	Filtered	-0.02 U R	0.1	0.03	0.047
RS-16	SMRS-16-GW033011	Ag-108	Suspended	0.002 U R	0.055	0.016	0.026
RS-16	SMRS-16-GW033011	Ag-108	Total	-0.018 R	NA	0.034	NA
RS-16	SMRS-16-GW033011	Ag-108m	Filtered	-0.22 U R	1.1	0.32	0.51
RS-16	SMRS-16-GW033011	Ag-108m	Suspended	0.02 U R	0.59	0.17	0.28
RS-16	SMRS-16-GW033011	Ag-108m	Total	-0.2 R	NA	0.36	NA
RS-16	SMRS-16-GW033011	Ba-133	Filtered	2.6 U R	14	4.1	6.6
RS-16	SMRS-16-GW033011	Ba-133	Suspended	0.06 U R	5.6	1.6	2.7
RS-16	SMRS-16-GW033011	Ba-133	Total	2.6 R	NA	4.4	NA
RS-16	SMRS-16-GW033011	Ba-137m	Filtered	0.54 U	1.4	0.42	0.65
RS-16	SMRS-16-GW033011	Ba-137m	Suspended	0.08 U	0.7	0.21	0.33
RS-16	SMRS-16-GW033011	Ba-137m	Total	0.62	NA	0.46	NA
RS-16	SMRS-16-GW033011	Bi-212	Filtered	0.1 U	11	3.2	5.3
RS-16	SMRS-16-GW033011	Bi-212	Suspended	0.2 U	5.6	1.6	2.7
RS-16	SMRS-16-GW033011	Bi-212	Total	0.3	NA	3.6	NA
RS-16	SMRS-16-GW033011	Bi-214	Filtered	5.5	3	1.3	1.4
RS-16	SMRS-16-GW033011	Bi-214	Suspended	0.99	1.6	0.62	0.76
RS-16	SMRS-16-GW033011	Bi-214	Total	6.5	NA	1.4	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-16	SMRS-16-GW033011	Cd-113m	Filtered	5200 U	14000	4200	6700
RS-16	SMRS-16-GW033011	Cd-113m	Suspended	1300 U	6800	2000	3300
RS-16	SMRS-16-GW033011	Cd-113m	Total	6500	NA	4700	NA
RS-16	SMRS-16-GW033011	Cf-249	Filtered	-0.5 U R	6.9	2	3.3
RS-16	SMRS-16-GW033011	Cf-249	Suspended	-0.21 U R	2.8	0.84	1.4
RS-16	SMRS-16-GW033011	Cf-249	Total	-0.7 R	NA	2.2	NA
RS-16	SMRS-16-GW033011	Co-60	Filtered	-0.1 U	1.4	0.4	0.64
RS-16	SMRS-16-GW033011	Co-60	Suspended	0.02 U	0.62	0.17	0.28
RS-16	SMRS-16-GW033011	Co-60	Total	-0.08	NA	0.43	NA
RS-16	SMRS-16-GW033011	Cs-134	Filtered	0.46 U	1.1	0.33	0.51
RS-16	SMRS-16-GW033011	Cs-134	Suspended	-0.09 U	0.69	0.2	0.33
RS-16	SMRS-16-GW033011	Cs-134	Total	0.37	NA	0.39	NA
RS-16	SMRS-16-GW033011	Cs-137	Filtered	0.57 U	1.5	0.44	0.69
RS-16	SMRS-16-GW033011	Cs-137	Suspended	0.08 U	0.74	0.22	0.35
RS-16	SMRS-16-GW033011	Cs-137	Total	0.65	NA	0.49	NA
RS-16	SMRS-16-GW033011	Eu-152	Filtered	-0.09 U	3.4	0.98	1.6
RS-16	SMRS-16-GW033011	Eu-152	Suspended	-0.52 U	1.8	0.53	0.86
RS-16	SMRS-16-GW033011	Eu-152	Total	-0.6	NA	1.1	NA
RS-16	SMRS-16-GW033011	Eu-154	Filtered	-2.6 U	14	4	6.4
RS-16	SMRS-16-GW033011	Eu-154	Suspended	-1.9 U	6	1.8	2.9
RS-16	SMRS-16-GW033011	Eu-154	Total	-4.5	NA	4.4	NA
RS-16	SMRS-16-GW033011	Eu-155	Filtered	1.27 U	3	0.91	1.5
RS-16	SMRS-16-GW033011	Eu-155	Suspended	0.33 U	1.3	0.38	0.62
RS-16	SMRS-16-GW033011	Eu-155	Total	1.6	NA	0.99	NA
RS-16	SMRS-16-GW033011	gross_alpha	Suspended	2.77	0.4	0.32	0.21
RS-16	SMRS-16-GW033011	gross_alpha	Total	17.8	NA	1	NA
RS-16	SMRS-16-GW033011	gross_beta	Suspended	6.13	1.2	0.61	0.71
RS-16	SMRS-16-GW033011	gross_beta	Total	13.8	NA	0.97	NA
RS-16	SMRS-16-GW033011	H-3	Total	-21 U	130	38	63
RS-16	SMRS-16-GW033011	Ho-166m	Filtered	0.9 U	2	0.61	0.93
RS-16	SMRS-16-GW033011	Ho-166m	Suspended	-0.27 U	1.3	0.37	0.6
RS-16	SMRS-16-GW033011	Ho-166m	Total	0.63	NA	0.72	NA
RS-16	SMRS-16-GW033011	K-40	Filtered	-7 U	24	13	11
RS-16	SMRS-16-GW033011	K-40	Suspended	1.5 U	12	3.5	5.8
RS-16	SMRS-16-GW033011	K-40	Total	-5	NA	13	NA
RS-16	SMRS-16-GW033011	Na-22	Filtered	0 U	1.7	0.48	0.8
RS-16	SMRS-16-GW033011	Na-22	Suspended	-0.09 U	0.81	0.23	0.38
RS-16	SMRS-16-GW033011	Na-22	Total	-0.09	NA	0.54	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-16	SMRS-16-GW033011	Nb-94	Filtered	-0.0008 U	1.4	0.4	0.66
RS-16	SMRS-16-GW033011	Nb-94	Suspended	0.15 U	0.66	0.19	0.31
RS-16	SMRS-16-GW033011	Nb-94	Total	0.15	NA	0.44	NA
RS-16	SMRS-16-GW033011	Np-236	Filtered	-0.43 U	2.9	0.86	1.4
RS-16	SMRS-16-GW033011	Np-236	Suspended	0.25 U	1.2	0.36	0.58
RS-16	SMRS-16-GW033011	Np-236	Total	-0.18	NA	0.93	NA
RS-16	SMRS-16-GW033011	Np-239	Filtered	-0.06 U	7.3	2.1	3.5
RS-16	SMRS-16-GW033011	Np-239	Suspended	0.8 U	3.6	1.1	1.8
RS-16	SMRS-16-GW033011	Np-239	Total	0.7	NA	2.4	NA
RS-16	SMRS-16-GW033011	Pa-231	Filtered	-19 U	61	18	29
RS-16	SMRS-16-GW033011	Pa-231	Suspended	2.4 U	25	7.4	12
RS-16	SMRS-16-GW033011	Pa-231	Total	-17	NA	20	NA
RS-16	SMRS-16-GW033011	Pb-212	Filtered	0.89 U	2.5	0.85	1.2
RS-16	SMRS-16-GW033011	Pb-212	Suspended	-0.07 U	1.1	0.44	0.56
RS-16	SMRS-16-GW033011	Pb-212	Total	0.82	NA	0.96	NA
RS-16	SMRS-16-GW033011	Pb-214	Filtered	1.02 U	3.2	0.86	1.5
RS-16	SMRS-16-GW033011	Pb-214	Suspended	0.29 U	1.4	0.38	0.67
RS-16	SMRS-16-GW033011	Pb-214	Total	1.3	NA	0.94	NA
RS-16	SMRS-16-GW033011	Sb-125	Filtered	2.8 U	13	3.9	6.3
RS-16	SMRS-16-GW033011	Sb-125	Suspended	-1.2 U	4.5	1.3	2.2
RS-16	SMRS-16-GW033011	Sb-125	Total	1.7	NA	4.1	NA
RS-16	SMRS-16-GW033011	Sn-126	Filtered	-0.04 U	1.9	0.54	0.89
RS-16	SMRS-16-GW033011	Sn-126	Suspended	0.3 U	0.83	0.25	0.4
RS-16	SMRS-16-GW033011	Sn-126	Total	0.26	NA	0.6	NA
RS-16	SMRS-16-GW033011	Te-125m	Filtered	0.65 U	3	0.9	1.5
RS-16	SMRS-16-GW033011	Te-125m	Suspended	-0.27 U	1	0.31	0.5
RS-16	SMRS-16-GW033011	Te-125m	Total	0.38	NA	0.96	NA
RS-16	SMRS-16-GW033011	Th-231	Filtered	0.429	0.007	0.038	0.005
RS-16	SMRS-16-GW033011	Th-231	Suspended	0.0025 U	0.0068	0.0025	0.0052
RS-16	SMRS-16-GW033011	Th-231	Total	0.431	NA	0.038	NA
RS-16	SMRS-16-GW033011	Th-234	Filtered	15.3	22	8.1	11
RS-16	SMRS-16-GW033011	Th-234	Suspended	4.1 U	9	3	4.4
RS-16	SMRS-16-GW033011	Th-234	Total	19.4	NA	8.7	NA
RS-16	SMRS-16-GW033011	Tl-208	Filtered	-0.33 U	1.7	0.67	0.81
RS-16	SMRS-16-GW033011	Tl-208	Suspended	-0.004 U	0.72	0.22	0.34
RS-16	SMRS-16-GW033011	Tl-208	Total	-0.33	NA	0.71	NA
RS-16	SMRS-16-GW033011	Tm-171	Filtered	89 U	320	97	160
RS-16	SMRS-16-GW033011	Tm-171	Suspended	13 U	110	31	51

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-16	SMRS-16-GW033011	Tm-171	Total	100	NA	100	NA
RS-16	SMRS-16-GW033011	U-233/234	Filtered	8.18	0.01	0.37	0.004
RS-16	SMRS-16-GW033011	U-233/234	Suspended	0.0358	0.0054	0.0098	0.0042
RS-16	SMRS-16-GW033011	U-233/234	Total	8.22	NA	0.37	NA
RS-16	SMRS-16-GW033011	U-235/236	Filtered	0.429	0.007	0.038	0.005
RS-16	SMRS-16-GW033011	U-235/236	Suspended	0.0025 U	0.0068	0.0025	0.0052
RS-16	SMRS-16-GW033011	U-235/236	Total	0.431	NA	0.038	NA
RS-16	SMRS-16-GW033011	U-238	Filtered	8.41	0.01	0.38	0.004
RS-16	SMRS-16-GW033011	U-238	Suspended	0.0063 K	0.0054	0.0053	0.0042
RS-16	SMRS-16-GW033011	U-238	Total	8.41	NA	0.38	NA
RS-18	SMRS-18-GW031811	Ac-227	Filtered	-0.3 U	12	3.6	6
RS-18	SMRS-18-GW031811	Ac-227	Suspended	-3.4 L U	4.6	1.4	2.3
RS-18	SMRS-18-GW031811	Ac-227	Total	-3.7	NA	3.9	NA
RS-18	SMRS-18-GW031811	Ac-228	Filtered	1.9 U	4.4	1.3	2
RS-18	SMRS-18-GW031811	Ac-228	Suspended	-0.27 U	2.6	0.81	1.2
RS-18	SMRS-18-GW031811	Ac-228	Total	1.6	NA	1.6	NA
RS-18	SMRS-18-GW031811	Ag-108	Filtered	0 U	0.12	0.036	0.059
RS-18	SMRS-18-GW031811	Ag-108	Suspended	0.002 U	0.053	0.015	0.025
RS-18	SMRS-18-GW031811	Ag-108	Total	0.002	NA	0.039	NA
RS-18	SMRS-18-GW031811	Ag-108m	Filtered	0 U	1.3	0.38	0.63
RS-18	SMRS-18-GW031811	Ag-108m	Suspended	0.02 U	0.57	0.17	0.27
RS-18	SMRS-18-GW031811	Ag-108m	Total	0.02	NA	0.42	NA
RS-18	SMRS-18-GW031811	Ba-133	Filtered	-3.5 U	16	4.7	7.6
RS-18	SMRS-18-GW031811	Ba-133	Suspended	0 U	5.4	1.6	2.6
RS-18	SMRS-18-GW031811	Ba-133	Total	-3.5	NA	5	NA
RS-18	SMRS-18-GW031811	Ba-137m	Filtered	0.37 U	1.5	0.45	0.71
RS-18	SMRS-18-GW031811	Ba-137m	Suspended	-0.1 U	0.7	0.21	0.34
RS-18	SMRS-18-GW031811	Ba-137m	Total	0.28	NA	0.49	NA
RS-18	SMRS-18-GW031811	Bi-212	Filtered	-8 U	10	1300	6
RS-18	SMRS-18-GW031811	Bi-212	Suspended	1.5 U	5.7	1.7	2.7
RS-18	SMRS-18-GW031811	Bi-212	Total	-7	NA	1300	NA
RS-18	SMRS-18-GW031811	Bi-214	Filtered	1.4 U	3.5	0.94	1.6
RS-18	SMRS-18-GW031811	Bi-214	Suspended	0.33 U	1.8	0.68	0.86
RS-18	SMRS-18-GW031811	Bi-214	Total	1.7	NA	1.2	NA
RS-18	SMRS-18-GW031811	Cd-113m	Filtered	-2600 U	16000	4700	7600
RS-18	SMRS-18-GW031811	Cd-113m	Suspended	2200 U	6000	1800	2900
RS-18	SMRS-18-GW031811	Cd-113m	Total	-400	NA	5000	NA
RS-18	SMRS-18-GW031811	Cf-249	Filtered	0.9 U	4.7	1.4	2.2

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW031811	Cf-249	Suspended	0.79 U	2.3	0.7	1.1
RS-18	SMRS-18-GW031811	Cf-249	Total	1.7	NA	1.5	NA
RS-18	SMRS-18-GW031811	Co-60	Filtered	0.28 U	1.6	0.46	0.72
RS-18	SMRS-18-GW031811	Co-60	Suspended	0.11 U	0.77	0.22	0.36
RS-18	SMRS-18-GW031811	Co-60	Total	0.39	NA	0.51	NA
RS-18	SMRS-18-GW031811	Cs-134	Filtered	0.0002 U	1.5	0.42	0.7
RS-18	SMRS-18-GW031811	Cs-134	Suspended	0.08 U	0.71	0.21	0.34
RS-18	SMRS-18-GW031811	Cs-134	Total	0.08	NA	0.47	NA
RS-18	SMRS-18-GW031811	Cs-137	Filtered	0.39 U	1.6	0.47	0.75
RS-18	SMRS-18-GW031811	Cs-137	Suspended	-0.1 U	0.74	0.22	0.36
RS-18	SMRS-18-GW031811	Cs-137	Total	0.29	NA	0.52	NA
RS-18	SMRS-18-GW031811	Eu-152	Filtered	0.22 U	2.9	0.84	1.4
RS-18	SMRS-18-GW031811	Eu-152	Suspended	0.25 U	1.6	0.47	0.76
RS-18	SMRS-18-GW031811	Eu-152	Total	0.47	NA	0.96	NA
RS-18	SMRS-18-GW031811	Eu-154	Filtered	0.8 U	12	3.5	5.7
RS-18	SMRS-18-GW031811	Eu-154	Suspended	0.1 U	6.1	1.8	2.9
RS-18	SMRS-18-GW031811	Eu-154	Total	1	NA	3.9	NA
RS-18	SMRS-18-GW031811	Eu-155	Filtered	0.4 U	3.1	0.92	1.5
RS-18	SMRS-18-GW031811	Eu-155	Suspended	0.34 U	1.2	0.36	0.58
RS-18	SMRS-18-GW031811	Eu-155	Total	0.74	NA	0.99	NA
RS-18	SMRS-18-GW031811	gross_alpha	Filtered	14.8 L	0.47	0.92	0.25
RS-18	SMRS-18-GW031811	gross_alpha	Suspended	2.01	0.56	0.33	0.29
RS-18	SMRS-18-GW031811	gross_alpha	Total	16.8	NA	0.98	NA
RS-18	SMRS-18-GW031811	gross_beta	Filtered	5.9	3.1	1.2	1.8
RS-18	SMRS-18-GW031811	gross_beta	Suspended	2.2	1	0.4	0.6
RS-18	SMRS-18-GW031811	gross_beta	Total	8.1	NA	1.2	NA
RS-18	SMRS-18-GW031811	H-3	Total	26 U	150	45	73
RS-18	SMRS-18-GW031811	Ho-166m	Filtered	-0.68 U	2.6	0.76	1.2
RS-18	SMRS-18-GW031811	Ho-166m	Suspended	0.003 U	1.2	0.34	0.56
RS-18	SMRS-18-GW031811	Ho-166m	Total	-0.68	NA	0.83	NA
RS-18	SMRS-18-GW031811	K-40	Filtered	-13 U	24	18	11
RS-18	SMRS-18-GW031811	K-40	Suspended	-1.1 U	12	3.4	5.7
RS-18	SMRS-18-GW031811	K-40	Total	-14	NA	18	NA
RS-18	SMRS-18-GW031811	Na-22	Filtered	-0.13 U	1.6	0.44	0.71
RS-18	SMRS-18-GW031811	Na-22	Suspended	0.23 U	0.68	0.2	0.32
RS-18	SMRS-18-GW031811	Na-22	Total	0.1	NA	0.49	NA
RS-18	SMRS-18-GW031811	Nb-94	Filtered	0.33 U	1.2	0.35	0.55
RS-18	SMRS-18-GW031811	Nb-94	Suspended	-0.07 U	0.65	0.19	0.31

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW031811	Nb-94	Total	0.26	NA	0.4	NA
RS-18	SMRS-18-GW031811	Np-236	Filtered	0.1 U	2.9	0.84	1.4
RS-18	SMRS-18-GW031811	Np-236	Suspended	-0.26 U	1.1	0.33	0.54
RS-18	SMRS-18-GW031811	Np-236	Total	-0.17	NA	0.91	NA
RS-18	SMRS-18-GW031811	Np-239	Filtered	2.9 U	8.3	2.5	4
RS-18	SMRS-18-GW031811	Np-239	Suspended	-0.05 U	3.7	1.1	1.8
RS-18	SMRS-18-GW031811	Np-239	Total	2.8	NA	2.7	NA
RS-18	SMRS-18-GW031811	Pa-231	Filtered	-18 U	62	18	30
RS-18	SMRS-18-GW031811	Pa-231	Suspended	1.5 U	23	6.7	11
RS-18	SMRS-18-GW031811	Pa-231	Total	-17	NA	20	NA
RS-18	SMRS-18-GW031811	Pb-212	Filtered	1.35	2.5	0.9	1.2
RS-18	SMRS-18-GW031811	Pb-212	Suspended	-0.4 U	1	0.42	0.51
RS-18	SMRS-18-GW031811	Pb-212	Total	0.95	NA	0.99	NA
RS-18	SMRS-18-GW031811	Pb-214	Filtered	1.5	3.2	1.1	1.5
RS-18	SMRS-18-GW031811	Pb-214	Suspended	-0.81 U	1.7	0.78	0.81
RS-18	SMRS-18-GW031811	Pb-214	Total	0.7	NA	1.4	NA
RS-18	SMRS-18-GW031811	Sb-125	Filtered	-3.4 U	14	4.3	6.9
RS-18	SMRS-18-GW031811	Sb-125	Suspended	-0.06 U	5.7	1.7	2.8
RS-18	SMRS-18-GW031811	Sb-125	Total	-3.5	NA	4.6	NA
RS-18	SMRS-18-GW031811	Sn-126	Filtered	0.32 U	1.5	0.44	0.7
RS-18	SMRS-18-GW031811	Sn-126	Suspended	0.32 U	0.77	0.23	0.37
RS-18	SMRS-18-GW031811	Sn-126	Total	0.64	NA	0.5	NA
RS-18	SMRS-18-GW031811	Sr-90	Filtered	0.077 U	0.18	0.055	0.11
RS-18	SMRS-18-GW031811	Sr-90	Suspended	0.055 U	0.15	0.045	0.089
RS-18	SMRS-18-GW031811	Sr-90	Total	0.132	NA	0.071	NA
RS-18	SMRS-18-GW031811	Te-125m	Filtered	-0.8 U	3.3	0.98	1.6
RS-18	SMRS-18-GW031811	Te-125m	Suspended	-0.01 U	1.3	0.39	0.64
RS-18	SMRS-18-GW031811	Te-125m	Total	-0.8	NA	1.1	NA
RS-18	SMRS-18-GW031811	Th-231	Filtered	0.34	0.008	0.035	0.006
RS-18	SMRS-18-GW031811	Th-231	Suspended	0 U	0.006	0.0018	0.0046
RS-18	SMRS-18-GW031811	Th-231	Total	0.34	NA	0.035	NA
RS-18	SMRS-18-GW031811	Th-234	Filtered	-5 U	22	7.9	10
RS-18	SMRS-18-GW031811	Th-234	Suspended	2 U	8.6	2.8	4.2
RS-18	SMRS-18-GW031811	Th-234	Total	-3	NA	8.4	NA
RS-18	SMRS-18-GW031811	Tl-208	Filtered	0.22 U	1.8	0.48	0.86
RS-18	SMRS-18-GW031811	Tl-208	Suspended	0.27 U	0.73	0.25	0.35
RS-18	SMRS-18-GW031811	Tl-208	Total	0.48	NA	0.55	NA
RS-18	SMRS-18-GW031811	Tm-171	Filtered	4 U	340	100	170

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-18	SMRS-18-GW031811	Tm-171	Suspended	-8 U	100	31	50
RS-18	SMRS-18-GW031811	Tm-171	Total	-4	NA	100	NA
RS-18	SMRS-18-GW031811	U-233/234	Filtered	7.07	0.02	0.32	0.005
RS-18	SMRS-18-GW031811	U-233/234	Suspended	0.04	0.017	0.01	0.006
RS-18	SMRS-18-GW031811	U-233/234	Total	7.11	NA	0.32	NA
RS-18	SMRS-18-GW031811	U-235/236	Filtered	0.34	0.008	0.035	0.006
RS-18	SMRS-18-GW031811	U-235/236	Suspended	0 U	0.006	0.0018	0.0046
RS-18	SMRS-18-GW031811	U-235/236	Total	0.34	NA	0.035	NA
RS-18	SMRS-18-GW031811	U-238	Filtered	6.75	0.02	0.31	0.005
RS-18	SMRS-18-GW031811	U-238	Suspended	0.0373	0.0048	0.009	0.0037
RS-18	SMRS-18-GW031811	U-238	Total	6.79	NA	0.31	NA
RS-23	SMRS-23-GW032111	Ac-227	Filtered	-5.1 U	9.6	2.9	4.7
RS-23	SMRS-23-GW032111	Ac-227	Suspended	-1 U	3.3	0.99	1.6
RS-23	SMRS-23-GW032111	Ac-227	Total	-6.1	NA	3.1	NA
RS-23	SMRS-23-GW032111	Ac-228	Filtered	-0.2 U	4.4	1.3	2.1
RS-23	SMRS-23-GW032111	Ac-228	Suspended	1.6	1.7	0.55	0.78
RS-23	SMRS-23-GW032111	Ac-228	Total	1.4	NA	1.4	NA
RS-23	SMRS-23-GW032111	Ag-108	Filtered	0.031 U R	0.086	0.026	0.041
RS-23	SMRS-23-GW032111	Ag-108	Suspended	0.002 U R	0.037	0.011	0.018
RS-23	SMRS-23-GW032111	Ag-108	Total	0.033 R	NA	0.028	NA
RS-23	SMRS-23-GW032111	Ag-108m	Filtered	0.34 U R	0.93	0.28	0.44
RS-23	SMRS-23-GW032111	Ag-108m	Suspended	0.02 U R	0.4	0.12	0.19
RS-23	SMRS-23-GW032111	Ag-108m	Total	0.36 R	NA	0.3	NA
RS-23	SMRS-23-GW032111	Ba-133	Filtered	-0.7 U R	10	3.1	5
RS-23	SMRS-23-GW032111	Ba-133	Suspended	0.9 U R	4.5	1.3	2.2
RS-23	SMRS-23-GW032111	Ba-133	Total	0.2 R	NA	3.4	NA
RS-23	SMRS-23-GW032111	Ba-137m	Filtered	-0.2 U	1.1	0.32	0.52
RS-23	SMRS-23-GW032111	Ba-137m	Suspended	-0.02 U	0.57	0.16	0.27
RS-23	SMRS-23-GW032111	Ba-137m	Total	-0.22	NA	0.36	NA
RS-23	SMRS-23-GW032111	Bi-212	Filtered	8.5	8.6	3.4	4.1
RS-23	SMRS-23-GW032111	Bi-212	Suspended	3.1	3.9	1.2	1.8
RS-23	SMRS-23-GW032111	Bi-212	Total	11.7	NA	3.6	NA
RS-23	SMRS-23-GW032111	Bi-214	Filtered	3.1	2.8	1.1	1.3
RS-23	SMRS-23-GW032111	Bi-214	Suspended	1.14	1.3	0.51	0.61
RS-23	SMRS-23-GW032111	Bi-214	Total	4.3	NA	1.2	NA
RS-23	SMRS-23-GW032111	Cd-113m	Filtered	-1900 U	14000	4100	6700
RS-23	SMRS-23-GW032111	Cd-113m	Suspended	2100	4000	1200	1900
RS-23	SMRS-23-GW032111	Cd-113m	Total	200	NA	4300	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-23	SMRS-23-GW032111	Cf-249	Filtered	0.9 U R	5.5	1.6	2.6
RS-23	SMRS-23-GW032111	Cf-249	Suspended	0.1 U R	2	0.57	0.94
RS-23	SMRS-23-GW032111	Cf-249	Total	1 R	NA	1.7	NA
RS-23	SMRS-23-GW032111	Co-60	Filtered	0.16 U	1	0.29	0.47
RS-23	SMRS-23-GW032111	Co-60	Suspended	0.23 U	0.57	0.17	0.26
RS-23	SMRS-23-GW032111	Co-60	Total	0.39	NA	0.34	NA
RS-23	SMRS-23-GW032111	Cs-134	Filtered	-0.39 U	1.3	0.4	0.64
RS-23	SMRS-23-GW032111	Cs-134	Suspended	0.61 SK	0.41	0.18	0.19
RS-23	SMRS-23-GW032111	Cs-134	Total	0.23 SK	NA	0.44	NA
RS-23	SMRS-23-GW032111	Cs-137	Filtered	-0.21 U	1.2	0.34	0.55
RS-23	SMRS-23-GW032111	Cs-137	Suspended	-0.02 U	0.6	0.17	0.28
RS-23	SMRS-23-GW032111	Cs-137	Total	-0.24	NA	0.38	NA
RS-23	SMRS-23-GW032111	Eu-152	Filtered	1.31 U	3.1	0.95	1.5
RS-23	SMRS-23-GW032111	Eu-152	Suspended	-0.32 U	1.2	0.36	0.58
RS-23	SMRS-23-GW032111	Eu-152	Total	1	NA	1	NA
RS-23	SMRS-23-GW032111	Eu-154	Filtered	0.4 U	7.4	2.1	3.4
RS-23	SMRS-23-GW032111	Eu-154	Suspended	0.1 U	4.3	1.2	2
RS-23	SMRS-23-GW032111	Eu-154	Total	0.5	NA	2.4	NA
RS-23	SMRS-23-GW032111	Eu-155	Filtered	-0.01 U	2.9	0.86	1.4
RS-23	SMRS-23-GW032111	Eu-155	Suspended	-0.27 U	1.1	0.32	0.52
RS-23	SMRS-23-GW032111	Eu-155	Total	-0.28	NA	0.91	NA
RS-23	SMRS-23-GW032111	gross_alpha	Filtered	74.1	0.5	3.4	0.2
RS-23	SMRS-23-GW032111	gross_alpha	Suspended	142	1.3	6.4	0.7
RS-23	SMRS-23-GW032111	gross_alpha	Total	216	NA	7.3	NA
RS-23	SMRS-23-GW032111	gross_beta	Filtered	32.1	2.2	1.9	1.2
RS-23	SMRS-23-GW032111	gross_beta	Suspended	281	2	11	0.9
RS-23	SMRS-23-GW032111	gross_beta	Total	313	NA	11	NA
RS-23	SMRS-23-GW032111	H-3	Total	43 U	150	44	72
RS-23	SMRS-23-GW032111	Ho-166m	Filtered	0.51 U	1.8	0.53	0.85
RS-23	SMRS-23-GW032111	Ho-166m	Suspended	0.09 U	0.83	0.24	0.39
RS-23	SMRS-23-GW032111	Ho-166m	Total	0.61	NA	0.58	NA
RS-23	SMRS-23-GW032111	K-40	Filtered	0.3 U	18	4.5	8.4
RS-23	SMRS-23-GW032111	K-40	Suspended	6.9	8.3	2.9	3.9
RS-23	SMRS-23-GW032111	K-40	Total	7.2	NA	5.4	NA
RS-23	SMRS-23-GW032111	Na-22	Filtered	0.0005 U	1.1	0.3	0.49
RS-23	SMRS-23-GW032111	Na-22	Suspended	0.15 U	0.51	0.15	0.23
RS-23	SMRS-23-GW032111	Na-22	Total	0.15	NA	0.33	NA
RS-23	SMRS-23-GW032111	Nb-94	Filtered	0.12 U	0.94	0.27	0.44

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-23	SMRS-23-GW032111	Nb-94	Suspended	-0.008 U	0.54	0.16	0.26
RS-23	SMRS-23-GW032111	Nb-94	Total	0.11	NA	0.31	NA
RS-23	SMRS-23-GW032111	Np-236	Filtered	0.3 U	2.4	0.72	1.2
RS-23	SMRS-23-GW032111	Np-236	Suspended	-0.06 U	0.95	0.28	0.46
RS-23	SMRS-23-GW032111	Np-236	Total	0.24	NA	0.78	NA
RS-23	SMRS-23-GW032111	Np-239	Filtered	0.3 U	7.5	2.2	3.7
RS-23	SMRS-23-GW032111	Np-239	Suspended	0.37 U	3	0.88	1.4
RS-23	SMRS-23-GW032111	Np-239	Total	0.6	NA	2.4	NA
RS-23	SMRS-23-GW032111	Pa-231	Filtered	0.3 U	51	15	25
RS-23	SMRS-23-GW032111	Pa-231	Suspended	3 U	21	6.2	10
RS-23	SMRS-23-GW032111	Pa-231	Total	3	NA	16	NA
RS-23	SMRS-23-GW032111	Pb-212	Filtered	0.14 U	2.3	0.72	1.1
RS-23	SMRS-23-GW032111	Pb-212	Suspended	0.54	0.66	0.24	0.32
RS-23	SMRS-23-GW032111	Pb-212	Total	0.68	NA	0.76	NA
RS-23	SMRS-23-GW032111	Pb-214	Filtered	0.19 U	2.4	0.74	1.1
RS-23	SMRS-23-GW032111	Pb-214	Suspended	0.36 U	1.1	0.31	0.53
RS-23	SMRS-23-GW032111	Pb-214	Total	0.55	NA	0.81	NA
RS-23	SMRS-23-GW032111	Sb-125	Filtered	-2 U	12	3.6	5.9
RS-23	SMRS-23-GW032111	Sb-125	Suspended	-0.3 U	4.8	1.4	2.3
RS-23	SMRS-23-GW032111	Sb-125	Total	-2.3	NA	3.9	NA
RS-23	SMRS-23-GW032111	Sn-126	Filtered	0.27 U	1.2	0.36	0.59
RS-23	SMRS-23-GW032111	Sn-126	Suspended	0.31	0.54	0.17	0.26
RS-23	SMRS-23-GW032111	Sn-126	Total	0.59	NA	0.4	NA
RS-23	SMRS-23-GW032111	Sr-90	Filtered	0.017 U	0.053	0.016	0.03
RS-23	SMRS-23-GW032111	Sr-90	Suspended	0.26	0.15	0.054	0.087
RS-23	SMRS-23-GW032111	Sr-90	Total	0.277	NA	0.056	NA
RS-23	SMRS-23-GW032111	Te-125m	Filtered	-0.47 U	2.8	0.83	1.4
RS-23	SMRS-23-GW032111	Te-125m	Suspended	-0.06 U	1.1	0.33	0.53
RS-23	SMRS-23-GW032111	Te-125m	Total	-0.53	NA	0.89	NA
RS-23	SMRS-23-GW032111	Th-231	Filtered	0.057	0.007	0.012	0.005
RS-23	SMRS-23-GW032111	Th-231	Suspended	0.0143	0.013	0.0083	0.0099
RS-23	SMRS-23-GW032111	Th-231	Total	0.072	NA	0.015	NA
RS-23	SMRS-23-GW032111	Th-234	Filtered	12.6	22	7.9	11
RS-23	SMRS-23-GW032111	Th-234	Suspended	0.4 U	5.5	1.6	2.7
RS-23	SMRS-23-GW032111	Th-234	Total	13	NA	8	NA
RS-23	SMRS-23-GW032111	Tl-208	Filtered	0.72	1.3	0.44	0.62
RS-23	SMRS-23-GW032111	Tl-208	Suspended	0.04 U	0.59	0.16	0.28
RS-23	SMRS-23-GW032111	Tl-208	Total	0.76	NA	0.47	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-23	SMRS-23-GW032111	Tm-171	Filtered	-120 U	340	100	170
RS-23	SMRS-23-GW032111	Tm-171	Suspended	20 U	92	28	45
RS-23	SMRS-23-GW032111	Tm-171	Total	-100	NA	110	NA
RS-23	SMRS-23-GW032111	U-233/234	Filtered	1.02	0.006	0.063	0.004
RS-23	SMRS-23-GW032111	U-233/234	Suspended	0.233	0.01	0.033	0.008
RS-23	SMRS-23-GW032111	U-233/234	Total	1.26	NA	0.071	NA
RS-23	SMRS-23-GW032111	U-235/236	Filtered	0.057	0.007	0.012	0.005
RS-23	SMRS-23-GW032111	U-235/236	Suspended	0.0143	0.013	0.0083	0.0099
RS-23	SMRS-23-GW032111	U-235/236	Total	0.072	NA	0.015	NA
RS-23	SMRS-23-GW032111	U-238	Filtered	0.838	0.014	0.055	0.004
RS-23	SMRS-23-GW032111	U-238	Suspended	0.184	0.01	0.029	0.008
RS-23	SMRS-23-GW032111	U-238	Total	1.02	NA	0.062	NA
RS-25	SMRS-25-GW032411	Ac-227	Filtered	-8.6 L U	12	3.7	5.8
RS-25	SMRS-25-GW032411	Ac-227	Suspended	0.2 U	7.5	2.2	3.7
RS-25	SMRS-25-GW032411	Ac-227	Total	-8.4	NA	4.3	NA
RS-25	SMRS-25-GW032411	Ac-228	Filtered	3.1	4.9	1.5	2.3
RS-25	SMRS-25-GW032411	Ac-228	Suspended	4.42	2.4	0.8	1.1
RS-25	SMRS-25-GW032411	Ac-228	Total	7.5	NA	1.7	NA
RS-25	SMRS-25-GW032411	Ag-108	Filtered	0.012 U R	0.12	0.035	0.056
RS-25	SMRS-25-GW032411	Ag-108	Suspended	0.009 U R	0.048	0.014	0.023
RS-25	SMRS-25-GW032411	Ag-108	Total	0.021 R	NA	0.037	NA
RS-25	SMRS-25-GW032411	Ag-108m	Filtered	0.13 U R	1.3	0.37	0.61
RS-25	SMRS-25-GW032411	Ag-108m	Suspended	0.1 U R	0.52	0.15	0.25
RS-25	SMRS-25-GW032411	Ag-108m	Total	0.22 R	NA	0.4	NA
RS-25	SMRS-25-GW032411	Ba-133	Filtered	-3.5 U R	15	4.4	7.1
RS-25	SMRS-25-GW032411	Ba-133	Suspended	-0.2 U R	4.8	1.4	2.3
RS-25	SMRS-25-GW032411	Ba-133	Total	-3.7 R	NA	4.6	NA
RS-25	SMRS-25-GW032411	Ba-137m	Filtered	0.53 U	1.3	0.4	0.62
RS-25	SMRS-25-GW032411	Ba-137m	Suspended	0.33	0.58	0.18	0.27
RS-25	SMRS-25-GW032411	Ba-137m	Total	0.86	NA	0.44	NA
RS-25	SMRS-25-GW032411	Bi-212	Filtered	-4.8 U	13	3.9	6.1
RS-25	SMRS-25-GW032411	Bi-212	Suspended	0.9 U	5.2	1.5	2.5
RS-25	SMRS-25-GW032411	Bi-212	Total	-4	NA	4.2	NA
RS-25	SMRS-25-GW032411	Bi-214	Filtered	1.1 U	3.4	1.2	1.6
RS-25	SMRS-25-GW032411	Bi-214	Suspended	1.36	1.7	0.62	0.8
RS-25	SMRS-25-GW032411	Bi-214	Total	2.4	NA	1.3	NA
RS-25	SMRS-25-GW032411	Cd-113m	Filtered	2400 U	18000	5300	8600
RS-25	SMRS-25-GW032411	Cd-113m	Suspended	-400 U	7600	2200	3700

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-25	SMRS-25-GW032411	Cd-113m	Total	2000	NA	5700	NA
RS-25	SMRS-25-GW032411	Cf-249	Filtered	1.7 U R	5.7	1.7	2.7
RS-25	SMRS-25-GW032411	Cf-249	Suspended	-0.35 U R	3.2	0.96	1.6
RS-25	SMRS-25-GW032411	Cf-249	Total	1.3 R	NA	1.9	NA
RS-25	SMRS-25-GW032411	Co-60	Filtered	0.03 U	1.6	0.44	0.71
RS-25	SMRS-25-GW032411	Co-60	Suspended	0.18 U	0.72	0.21	0.33
RS-25	SMRS-25-GW032411	Co-60	Total	0.21	NA	0.48	NA
RS-25	SMRS-25-GW032411	Cs-134	Filtered	-0.19 U	1.5	0.45	0.73
RS-25	SMRS-25-GW032411	Cs-134	Suspended	-0.01 U	0.82	0.24	0.4
RS-25	SMRS-25-GW032411	Cs-134	Total	-0.2	NA	0.51	NA
RS-25	SMRS-25-GW032411	Cs-137	Filtered	0.56 U	1.4	0.42	0.66
RS-25	SMRS-25-GW032411	Cs-137	Suspended	0.35	0.62	0.19	0.29
RS-25	SMRS-25-GW032411	Cs-137	Total	0.9	NA	0.46	NA
RS-25	SMRS-25-GW032411	Eu-152	Filtered	1 U	3.7	1.1	1.8
RS-25	SMRS-25-GW032411	Eu-152	Suspended	0.33 U	1.7	0.5	0.81
RS-25	SMRS-25-GW032411	Eu-152	Total	1.3	NA	1.2	NA
RS-25	SMRS-25-GW032411	Eu-154	Filtered	3.8 U	12	3.7	5.8
RS-25	SMRS-25-GW032411	Eu-154	Suspended	-1.2 U	6.1	1.8	2.9
RS-25	SMRS-25-GW032411	Eu-154	Total	2.6	NA	4.1	NA
RS-25	SMRS-25-GW032411	Eu-155	Filtered	-0.7 U	3.9	1.2	1.9
RS-25	SMRS-25-GW032411	Eu-155	Suspended	0.68	1.2	0.36	0.57
RS-25	SMRS-25-GW032411	Eu-155	Total	-0.03	NA	1.2	NA
RS-25	SMRS-25-GW032411	gross_alpha	Filtered	4.41	0.58	0.45	0.31
RS-25	SMRS-25-GW032411	gross_alpha	Suspended	5.75	0.72	0.62	0.37
RS-25	SMRS-25-GW032411	gross_alpha	Total	10.2	NA	0.77	NA
RS-25	SMRS-25-GW032411	gross_beta	Filtered	2.34 K	2.5	0.87	1.5
RS-25	SMRS-25-GW032411	gross_beta	Suspended	30	1.2	1.5	0.7
RS-25	SMRS-25-GW032411	gross_beta	Total	32.3	NA	1.7	NA
RS-25	SMRS-25-GW082510	H-3	Filtered	-15 U	130	40	66
RS-25	SMRS-25-GW082510	H-3	Suspended	14.3 R	13	4.7	5.6
RS-25	SMRS-25-GW082510	H-3	Total	-0.9 R	NA	40	NA
RS-25	SMRS-25-GW032411	H-3	Total	-7 U	140	42	70
RS-25	SMRS-25-GW032411	Ho-166m	Filtered	-0.62 U	2.6	0.77	1.2
RS-25	SMRS-25-GW032411	Ho-166m	Suspended	0.45 U	1.1	0.34	0.53
RS-25	SMRS-25-GW032411	Ho-166m	Total	-0.17	NA	0.84	NA
RS-25	SMRS-25-GW032411	K-40	Filtered	8.2 U	23	8	11
RS-25	SMRS-25-GW032411	K-40	Suspended	12.8	10	3.7	4.8
RS-25	SMRS-25-GW032411	K-40	Total	21	NA	8.9	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-25	SMRS-25-GW032411	Na-22	Filtered	0.39 U	1.3	0.39	0.6
RS-25	SMRS-25-GW032411	Na-22	Suspended	-0.1 U	0.82	0.24	0.38
RS-25	SMRS-25-GW032411	Na-22	Total	0.29	NA	0.46	NA
RS-25	SMRS-25-GW032411	Nb-94	Filtered	0.05 U	1.5	0.43	0.7
RS-25	SMRS-25-GW032411	Nb-94	Suspended	-0.07 U	0.59	0.17	0.28
RS-25	SMRS-25-GW032411	Nb-94	Total	-0.02	NA	0.46	NA
RS-25	SMRS-25-GW032411	Np-236	Filtered	0.0009 U	3.4	0.99	1.6
RS-25	SMRS-25-GW032411	Np-236	Suspended	0.32 U	1.1	0.34	0.55
RS-25	SMRS-25-GW032411	Np-236	Total	0.3	NA	1	NA
RS-25	SMRS-25-GW032411	Np-239	Filtered	2 U	9.4	2.8	4.6
RS-25	SMRS-25-GW032411	Np-239	Suspended	-0.2 U	3.9	1.2	1.9
RS-25	SMRS-25-GW032411	Np-239	Total	1.8	NA	3	NA
RS-25	SMRS-25-GW032411	Pa-231	Filtered	6 U	66	19	32
RS-25	SMRS-25-GW032411	Pa-231	Suspended	-0.3 U	28	8.2	13
RS-25	SMRS-25-GW032411	Pa-231	Total	5	NA	21	NA
RS-25	SMRS-25-GW032411	Pb-212	Filtered	0.56 U	2.7	0.82	1.3
RS-25	SMRS-25-GW032411	Pb-212	Suspended	2.66	1.2	0.45	0.56
RS-25	SMRS-25-GW032411	Pb-212	Total	3.22	NA	0.93	NA
RS-25	SMRS-25-GW032411	Pb-214	Filtered	2	3.1	1.2	1.5
RS-25	SMRS-25-GW032411	Pb-214	Suspended	0.16 U	1.4	0.46	0.7
RS-25	SMRS-25-GW032411	Pb-214	Total	2.2	NA	1.3	NA
RS-25	SMRS-25-GW032411	Sb-125	Filtered	6 U	15	4.7	7.5
RS-25	SMRS-25-GW032411	Sb-125	Suspended	-0.5 U	6	1.8	2.9
RS-25	SMRS-25-GW032411	Sb-125	Total	5.6	NA	5	NA
RS-25	SMRS-25-GW032411	Sn-126	Filtered	0.29 U	1.6	0.47	0.75
RS-25	SMRS-25-GW032411	Sn-126	Suspended	0.4	0.68	0.21	0.32
RS-25	SMRS-25-GW032411	Sn-126	Total	0.69	NA	0.51	NA
RS-25	SMRS-25-GW032411	Sr-90	Filtered	0.033 U	0.059	0.018	0.034
RS-25	SMRS-25-GW032411	Sr-90	Suspended	0.051	0.077	0.024	0.043
RS-25	SMRS-25-GW032411	Sr-90	Total	0.083	NA	0.03	NA
RS-25	SMRS-25-GW032411	Te-125m	Filtered	1.4 U	3.6	1.1	1.7
RS-25	SMRS-25-GW032411	Te-125m	Suspended	-0.11 U	1.4	0.41	0.67
RS-25	SMRS-25-GW032411	Te-125m	Total	1.3	NA	1.2	NA
RS-25	SMRS-25-GW032411	Th-231	Filtered	0.166	0.007	0.021	0.005
RS-25	SMRS-25-GW032411	Th-231	Suspended	0.0165	0.0064	0.0063	0.0055
RS-25	SMRS-25-GW032411	Th-231	Total	0.182	NA	0.022	NA
RS-25	SMRS-25-GW032411	Th-234	Filtered	3 U	28	10	14
RS-25	SMRS-25-GW032411	Th-234	Suspended	3.1 U	8.4	3	4.1

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-25	SMRS-25-GW032411	Th-234	Total	6	NA	11	NA
RS-25	SMRS-25-GW032411	Tl-208	Filtered	-0.75 U	2	0.94	0.97
RS-25	SMRS-25-GW032411	Tl-208	Suspended	1.4	0.71	0.32	0.34
RS-25	SMRS-25-GW032411	Tl-208	Total	0.65	NA	0.99	NA
RS-25	SMRS-25-GW032411	Tm-171	Filtered	40 U	380	110	190
RS-25	SMRS-25-GW032411	Tm-171	Suspended	33 U	120	35	57
RS-25	SMRS-25-GW032411	Tm-171	Total	70	NA	120	NA
RS-25	SMRS-25-GW032411	U-233/234	Filtered	2.7	0.005	0.14	0.004
RS-25	SMRS-25-GW032411	U-233/234	Suspended	0.682	0.013	0.046	0.004
RS-25	SMRS-25-GW032411	U-233/234	Total	3.39	NA	0.14	NA
RS-25	SMRS-25-GW032411	U-235/236	Filtered	0.166	0.007	0.021	0.005
RS-25	SMRS-25-GW032411	U-235/236	Suspended	0.0164	0.0064	0.0063	0.0049
RS-25	SMRS-25-GW032411	U-235/236	Total	0.182	NA	0.022	NA
RS-25	SMRS-25-GW032411	U-238	Filtered	2.67	0.005	0.13	0.004
RS-25	SMRS-25-GW032411	U-238	Suspended	0.635	0.005	0.044	0.004
RS-25	SMRS-25-GW032411	U-238	Total	3.3	NA	0.14	NA
RS-27	SMRS-27-GW033011	Ac-227	Filtered	-5 U	10	3.1	5
RS-27	SMRS-27-GW033011	Ac-227	Suspended	0.4 U	5.7	1.7	2.8
RS-27	SMRS-27-GW033011	Ac-227	Total	-4.5	NA	3.6	NA
RS-27	SMRS-27-GW033011	Ac-228	Filtered	0 U	5.7	1.6	2.7
RS-27	SMRS-27-GW033011	Ac-228	Suspended	0.37 U	2.8	0.73	1.3
RS-27	SMRS-27-GW033011	Ac-228	Total	0.4	NA	1.8	NA
RS-27	SMRS-27-GW033011	Ag-108	Filtered	-0.018 U R	0.1	0.03	0.049
RS-27	SMRS-27-GW033011	Ag-108	Suspended	-0.002 U R	0.056	0.017	0.027
RS-27	SMRS-27-GW033011	Ag-108	Total	-0.02 R	NA	0.035	NA
RS-27	SMRS-27-GW033011	Ag-108m	Filtered	-0.19 U R	1.1	0.33	0.53
RS-27	SMRS-27-GW033011	Ag-108m	Suspended	-0.02 U R	0.61	0.18	0.29
RS-27	SMRS-27-GW033011	Ag-108m	Total	-0.21 R	NA	0.37	NA
RS-27	SMRS-27-GW033011	Ba-133	Filtered	1.1 U R	10	3	4.8
RS-27	SMRS-27-GW033011	Ba-133	Suspended	1.2 U R	5.6	1.7	2.7
RS-27	SMRS-27-GW033011	Ba-133	Total	2.3 R	NA	3.4	NA
RS-27	SMRS-27-GW033011	Ba-137m	Filtered	-0.37 U	1.3	0.38	0.61
RS-27	SMRS-27-GW033011	Ba-137m	Suspended	0.18 U	0.66	0.2	0.32
RS-27	SMRS-27-GW033011	Ba-137m	Total	-0.19	NA	0.43	NA
RS-27	SMRS-27-GW033011	Bi-212	Filtered	3.1 U	9.7	2.9	4.6
RS-27	SMRS-27-GW033011	Bi-212	Suspended	2.3 U	5.7	1.7	2.7
RS-27	SMRS-27-GW033011	Bi-212	Total	5.4	NA	3.4	NA
RS-27	SMRS-27-GW033011	Bi-214	Filtered	1.59	2.7	0.96	1.3

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-27	SMRS-27-GW033011	Bi-214	Suspended	0.96	1.8	0.75	0.86
RS-27	SMRS-27-GW033011	Bi-214	Total	2.5	NA	1.2	NA
RS-27	SMRS-27-GW033011	Cd-113m	Filtered	50 U	15000	4400	7300
RS-27	SMRS-27-GW033011	Cd-113m	Suspended	-10 U	6700	2000	3200
RS-27	SMRS-27-GW033011	Cd-113m	Total	40	NA	4800	NA
RS-27	SMRS-27-GW033011	Cf-249	Filtered	0 U R	6.7	2	3.2
RS-27	SMRS-27-GW033011	Cf-249	Suspended	0.23 U R	3.1	0.91	1.5
RS-27	SMRS-27-GW033011	Cf-249	Total	0.2 R	NA	2.2	NA
RS-27	SMRS-27-GW033011	Co-60	Filtered	0.19 U	1.2	0.36	0.57
RS-27	SMRS-27-GW033011	Co-60	Suspended	-0.04 U	0.78	0.22	0.36
RS-27	SMRS-27-GW033011	Co-60	Total	0.15	NA	0.42	NA
RS-27	SMRS-27-GW033011	Cs-134	Filtered	-0.0006 U	1.4	0.39	0.65
RS-27	SMRS-27-GW033011	Cs-134	Suspended	-0.27 U	0.81	0.24	0.39
RS-27	SMRS-27-GW033011	Cs-134	Total	-0.27	NA	0.46	NA
RS-27	SMRS-27-GW033011	Cs-137	Filtered	-0.39 U	1.4	0.41	0.65
RS-27	SMRS-27-GW033011	Cs-137	Suspended	0.19 U	0.7	0.21	0.33
RS-27	SMRS-27-GW033011	Cs-137	Total	-0.2	NA	0.46	NA
RS-27	SMRS-27-GW033011	Eu-152	Filtered	-0.3 U	3.4	1	1.6
RS-27	SMRS-27-GW033011	Eu-152	Suspended	-0.0001 U	1.8	0.53	0.88
RS-27	SMRS-27-GW033011	Eu-152	Total	-0.3	NA	1.1	NA
RS-27	SMRS-27-GW033011	Eu-154	Filtered	-2.1 U	11	3.3	5.3
RS-27	SMRS-27-GW033011	Eu-154	Suspended	1.4 U	5.9	1.7	2.8
RS-27	SMRS-27-GW033011	Eu-154	Total	-0.6	NA	3.7	NA
RS-27	SMRS-27-GW033011	Eu-155	Filtered	0.38 U	3.3	0.97	1.6
RS-27	SMRS-27-GW033011	Eu-155	Suspended	-0.11 U	1.3	0.37	0.61
RS-27	SMRS-27-GW033011	Eu-155	Total	0.3	NA	1	NA
RS-27	SMRS-27-GW033011	gross_alpha	Filtered	4.07	0.69	0.48	0.37
RS-27	SMRS-27-GW033011	gross_alpha	Suspended	19.1	0.7	1.2	0.4
RS-27	SMRS-27-GW033011	gross_alpha	Total	37.9	NA	1.7	NA
RS-27	SMRS-27-GW033011	gross_beta	Filtered	20.1	1.5	1.2	0.8
RS-27	SMRS-27-GW033011	gross_beta	Suspended	73.4	1.2	3	0.6
RS-27	SMRS-27-GW033011	gross_beta	Total	93.5	NA	3.3	NA
RS-27	SMRS-27-GW033011	H-3	Total	0.5 U	140	42	69
RS-27	SMRS-27-GW033011	Ho-166m	Filtered	0.17 U	1.9	0.56	0.91
RS-27	SMRS-27-GW033011	Ho-166m	Suspended	0.22 U	1.2	0.35	0.57
RS-27	SMRS-27-GW033011	Ho-166m	Total	0.38	NA	0.66	NA
RS-27	SMRS-27-GW033011	K-40	Filtered	-6.2 U	19	8.1	8.7
RS-27	SMRS-27-GW033011	K-40	Suspended	9	9.5	2.9	4.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-27	SMRS-27-GW033011	K-40	Total	2.8	NA	8.6	NA
RS-27	SMRS-27-GW033011	Na-22	Filtered	-0.003 U	1.3	0.35	0.57
RS-27	SMRS-27-GW033011	Na-22	Suspended	-0.06 U	0.76	0.22	0.35
RS-27	SMRS-27-GW033011	Na-22	Total	-0.07	NA	0.41	NA
RS-27	SMRS-27-GW033011	Nb-94	Filtered	0.28 U	1.1	0.32	0.51
RS-27	SMRS-27-GW033011	Nb-94	Suspended	-0.12 U	0.74	0.22	0.35
RS-27	SMRS-27-GW033011	Nb-94	Total	0.16	NA	0.39	NA
RS-27	SMRS-27-GW033011	Np-236	Filtered	0.29 U	2.8	0.85	1.4
RS-27	SMRS-27-GW033011	Np-236	Suspended	0.41 U	1	0.3	0.48
RS-27	SMRS-27-GW033011	Np-236	Total	0.7	NA	0.9	NA
RS-27	SMRS-27-GW033011	Np-239	Filtered	-2 U	7.8	2.3	3.8
RS-27	SMRS-27-GW033011	Np-239	Suspended	1.63	3.3	1	1.6
RS-27	SMRS-27-GW033011	Np-239	Total	-0.4	NA	2.5	NA
RS-27	SMRS-27-GW033011	Pa-231	Filtered	16 U	48	14	23
RS-27	SMRS-27-GW033011	Pa-231	Suspended	-1.1 U	30	8.7	14
RS-27	SMRS-27-GW033011	Pa-231	Total	15	NA	17	NA
RS-27	SMRS-27-GW033011	Pb-212	Filtered	0.32 U	2.4	0.61	1.2
RS-27	SMRS-27-GW033011	Pb-212	Suspended	0.59	1.1	0.39	0.55
RS-27	SMRS-27-GW033011	Pb-212	Total	0.91	NA	0.73	NA
RS-27	SMRS-27-GW033011	Pb-214	Filtered	0.17 U	2.3	0.74	1.1
RS-27	SMRS-27-GW033011	Pb-214	Suspended	0.17 U	1.5	0.52	0.71
RS-27	SMRS-27-GW033011	Pb-214	Total	0.34	NA	0.9	NA
RS-27	SMRS-27-GW033011	Sb-125	Filtered	3 U	13	3.8	6.2
RS-27	SMRS-27-GW033011	Sb-125	Suspended	0.09 U	6	1.8	2.9
RS-27	SMRS-27-GW033011	Sb-125	Total	3.1	NA	4.2	NA
RS-27	SMRS-27-GW033011	Sn-126	Filtered	0.18 U	1.3	0.37	0.6
RS-27	SMRS-27-GW033011	Sn-126	Suspended	0.16 U	0.86	0.25	0.41
RS-27	SMRS-27-GW033011	Sn-126	Total	0.34	NA	0.45	NA
RS-27	SMRS-27-GW033011	Sr-90	Filtered	0.056	0.099	0.03	0.056
RS-27	SMRS-27-GW033011	Sr-90	Suspended	0.018 U	0.061	0.018	0.035
RS-27	SMRS-27-GW033011	Sr-90	Total	0.075	NA	0.035	NA
RS-27	SMRS-27-GW033011	Te-125m	Filtered	0.7 U	3	0.89	1.4
RS-27	SMRS-27-GW033011	Te-125m	Suspended	0.02 U	1.4	0.41	0.68
RS-27	SMRS-27-GW033011	Te-125m	Total	0.72	NA	0.98	NA
RS-27	SMRS-27-GW033011	Th-231	Filtered	0.0071	0.0064	0.0041	0.0049
RS-27	SMRS-27-GW033011	Th-231	Suspended	0.0132	0.0072	0.006	0.0055
RS-27	SMRS-27-GW033011	Th-231	Total	0.0204	NA	0.0072	NA
RS-27	SMRS-27-GW033011	Th-234	Filtered	2.4 U	25	6.9	12

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-27	SMRS-27-GW033011	Th-234	Suspended	-2.4 U	7.9	3.5	3.9
RS-27	SMRS-27-GW033011	Th-234	Total	0.02	NA	7.8	NA
RS-27	SMRS-27-GW033011	Tl-208	Filtered	-0.54 U	1.6	0.79	0.78
RS-27	SMRS-27-GW033011	Tl-208	Suspended	0.58	0.67	0.23	0.32
RS-27	SMRS-27-GW033011	Tl-208	Total	0.04	NA	0.82	NA
RS-27	SMRS-27-GW033011	Tm-171	Filtered	200	360	110	180
RS-27	SMRS-27-GW033011	Tm-171	Suspended	1 U	120	34	57
RS-27	SMRS-27-GW033011	Tm-171	Total	200	NA	120	NA
RS-27	SMRS-27-GW033011	U-233/234	Filtered	0.075	0.013	0.013	0.004
RS-27	SMRS-27-GW033011	U-233/234	Suspended	0.222	0.018	0.024	0.006
RS-27	SMRS-27-GW033011	U-233/234	Total	0.297	NA	0.028	NA
RS-27	SMRS-27-GW033011	U-235/236	Filtered	0.0071	0.0064	0.0041	0.0049
RS-27	SMRS-27-GW033011	U-235/236	Suspended	0.0132	0.0072	0.006	0.0055
RS-27	SMRS-27-GW033011	U-235/236	Total	0.0204	NA	0.0072	NA
RS-27	SMRS-27-GW033011	U-238	Filtered	0.068	0.013	0.012	0.004
RS-27	SMRS-27-GW033011	U-238	Suspended	0.192	0.006	0.022	0.004
RS-27	SMRS-27-GW033011	U-238	Total	0.259	NA	0.025	NA
RS-54	SMRS-54-GW032811	Ac-227	Filtered	0 U	12	3.5	5.8
RS-54	SMRS-54-GW032811	Ac-227	Suspended	-0.3 U	3	0.89	1.5
RS-54	SMRS-54-GW032811	Ac-227	Total	-0.3	NA	3.6	NA
RS-54	SMRS-54-GW032811	Ac-228	Filtered	2.9	5	1.6	2.3
RS-54	SMRS-54-GW032811	Ac-228	Suspended	1.28	1.9	0.59	0.89
RS-54	SMRS-54-GW032811	Ac-228	Total	4.2	NA	1.7	NA
RS-54	SMRS-54-GW032811	Ag-108	Filtered	0.008 U	0.11	0.032	0.052
RS-54	SMRS-54-GW032811	Ag-108	Suspended	0.009 U	0.041	0.012	0.02
RS-54	SMRS-54-GW032811	Ag-108	Total	0.017	NA	0.034	NA
RS-54	SMRS-54-GW032811	Ag-108m	Filtered	0.08 U	1.2	0.34	0.55
RS-54	SMRS-54-GW032811	Ag-108m	Suspended	0.1 U	0.44	0.13	0.21
RS-54	SMRS-54-GW032811	Ag-108m	Total	0.18	NA	0.36	NA
RS-54	SMRS-54-GW032811	Ba-133	Filtered	-0.3 U	16	4.8	7.9
RS-54	SMRS-54-GW032811	Ba-133	Suspended	0.7 U	4.6	1.4	2.2
RS-54	SMRS-54-GW032811	Ba-133	Total	0.4	NA	5	NA
RS-54	SMRS-54-GW032811	Ba-137m	Filtered	0.1 U	1.5	0.42	0.69
RS-54	SMRS-54-GW032811	Ba-137m	Suspended	-0.01 U	0.47	0.13	0.22
RS-54	SMRS-54-GW032811	Ba-137m	Total	0.09	NA	0.44	NA
RS-54	SMRS-54-GW032811	Bi-212	Filtered	1.4 U	11	3.1	5
RS-54	SMRS-54-GW032811	Bi-212	Suspended	1.1 U	3.9	1.2	1.8
RS-54	SMRS-54-GW032811	Bi-212	Total	2.5	NA	3.3	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-54	SMRS-54-GW032811	Bi-214	Filtered	1.8	3.1	1.1	1.5
RS-54	SMRS-54-GW032811	Bi-214	Suspended	0.38 U	1.4	0.54	0.65
RS-54	SMRS-54-GW032811	Bi-214	Total	2.2	NA	1.2	NA
RS-54	SMRS-54-GW032811	Cd-113m	Filtered	1200 U	11000	3200	5300
RS-54	SMRS-54-GW032811	Cd-113m	Suspended	0 U	5600	1600	2700
RS-54	SMRS-54-GW032811	Cd-113m	Total	1200	NA	3600	NA
RS-54	SMRS-54-GW032811	Cf-249	Filtered	2.8 U	6.3	1.9	3
RS-54	SMRS-54-GW032811	Cf-249	Suspended	0.06 U	1.9	0.57	0.93
RS-54	SMRS-54-GW032811	Cf-249	Total	2.8	NA	2	NA
RS-54	SMRS-54-GW032811	Co-60	Filtered	0.12 U	1.5	0.43	0.69
RS-54	SMRS-54-GW032811	Co-60	Suspended	0.21	0.44	0.13	0.2
RS-54	SMRS-54-GW032811	Co-60	Total	0.33	NA	0.45	NA
RS-54	SMRS-54-GW032811	Cs-134	Filtered	0.4 U	1.3	0.38	0.6
RS-54	SMRS-54-GW032811	Cs-134	Suspended	-0.27 U	0.63	0.19	0.3
RS-54	SMRS-54-GW032811	Cs-134	Total	0.13	NA	0.43	NA
RS-54	SMRS-54-GW032811	Cs-137	Filtered	0.11 U	1.6	0.45	0.73
RS-54	SMRS-54-GW032811	Cs-137	Suspended	-0.01 U	0.5	0.14	0.23
RS-54	SMRS-54-GW032811	Cs-137	Total	0.1	NA	0.47	NA
RS-54	SMRS-54-GW032811	Eu-152	Filtered	1.1 U	3.7	1.1	1.7
RS-54	SMRS-54-GW032811	Eu-152	Suspended	0.52 U	1.2	0.35	0.55
RS-54	SMRS-54-GW032811	Eu-152	Total	1.7	NA	1.1	NA
RS-54	SMRS-54-GW032811	Eu-154	Filtered	-0.1 U	12	3.4	5.5
RS-54	SMRS-54-GW032811	Eu-154	Suspended	-0.5 U	4.7	1.4	2.2
RS-54	SMRS-54-GW032811	Eu-154	Total	-0.7	NA	3.6	NA
RS-54	SMRS-54-GW032811	Eu-155	Filtered	0.68 U	2.9	0.87	1.4
RS-54	SMRS-54-GW032811	Eu-155	Suspended	0.01 U	0.96	0.28	0.46
RS-54	SMRS-54-GW032811	Eu-155	Total	0.69	NA	0.92	NA
RS-54	SMRS-54-GW032811	gross_alpha	Filtered	14.9 L	0.8	1	0.5
RS-54	SMRS-54-GW032811	gross_alpha	Suspended	4.21	0.5	0.44	0.26
RS-54	SMRS-54-GW032811	gross_alpha	Total	19.1	NA	1.1	NA
RS-54	SMRS-54-GW032811	gross_beta	Filtered	7.8	3.3	1.4	1.9
RS-54	SMRS-54-GW032811	gross_beta	Suspended	3.28	1.2	0.5	0.7
RS-54	SMRS-54-GW032811	gross_beta	Total	11.1	NA	1.4	NA
RS-54	SMRS-54-GW032811	H-3	Total	-58 U	170	49	84
RS-54	SMRS-54-GW032811	Ho-166m	Filtered	0.36 U	2.2	0.65	1
RS-54	SMRS-54-GW032811	Ho-166m	Suspended	0.18 U	0.88	0.26	0.42
RS-54	SMRS-54-GW032811	Ho-166m	Total	0.54	NA	0.7	NA
RS-54	SMRS-54-GW032811	K-40	Filtered	-4.3 U	24	9	11

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-54	SMRS-54-GW032811	K-40	Suspended	-1.5 U	8	2.7	3.8
RS-54	SMRS-54-GW032811	K-40	Total	-5.8	NA	9.4	NA
RS-54	SMRS-54-GW032811	Na-22	Filtered	0 U	2.5	0.72	1.2
RS-54	SMRS-54-GW032811	Na-22	Suspended	0.15 U	0.53	0.16	0.24
RS-54	SMRS-54-GW032811	Na-22	Total	0.15	NA	0.73	NA
RS-54	SMRS-54-GW032811	Nb-94	Filtered	-0.09 U	1.3	0.38	0.63
RS-54	SMRS-54-GW032811	Nb-94	Suspended	0.38	0.35	0.12	0.16
RS-54	SMRS-54-GW032811	Nb-94	Total	0.29	NA	0.4	NA
RS-54	SMRS-54-GW032811	Np-236	Filtered	-0.41 U	2.9	0.87	1.4
RS-54	SMRS-54-GW032811	Np-236	Suspended	0.25 U	0.84	0.25	0.41
RS-54	SMRS-54-GW032811	Np-236	Total	-0.17	NA	0.9	NA
RS-54	SMRS-54-GW032811	Np-239	Filtered	-0.3 U	9.1	2.7	4.4
RS-54	SMRS-54-GW032811	Np-239	Suspended	0.37 U	2.9	0.87	1.4
RS-54	SMRS-54-GW032811	Np-239	Total	0.04	NA	2.8	NA
RS-54	SMRS-54-GW032811	Pa-231	Filtered	-1 U	57	16	27
RS-54	SMRS-54-GW032811	Pa-231	Suspended	-1.9 U	21	6.1	10
RS-54	SMRS-54-GW032811	Pa-231	Total	-3	NA	18	NA
RS-54	SMRS-54-GW032811	Pb-212	Filtered	-0.18 U	2.6	0.97	1.3
RS-54	SMRS-54-GW032811	Pb-212	Suspended	0.4	0.67	0.24	0.32
RS-54	SMRS-54-GW032811	Pb-212	Total	0.22	NA	0.997	NA
RS-54	SMRS-54-GW032811	Pb-214	Filtered	0.52 U	3.2	0.84	1.5
RS-54	SMRS-54-GW032811	Pb-214	Suspended	0.59	0.96	0.34	0.46
RS-54	SMRS-54-GW032811	Pb-214	Total	1.11	NA	0.91	NA
RS-54	SMRS-54-GW032811	Sb-125	Filtered	-3.5 U	14	4	6.5
RS-54	SMRS-54-GW032811	Sb-125	Suspended	0.2 U	4.2	1.2	2
RS-54	SMRS-54-GW032811	Sb-125	Total	-3.3	NA	4.2	NA
RS-54	SMRS-54-GW032811	Sn-126	Filtered	-0.38 U	1.7	0.51	0.81
RS-54	SMRS-54-GW032811	Sn-126	Suspended	0.23 U	0.57	0.17	0.27
RS-54	SMRS-54-GW032811	Sn-126	Total	-0.15	NA	0.54	NA
RS-54	SMRS-54-GW032811	Sr-90	Filtered	0.005 U	0.072	0.021	0.041
RS-54	SMRS-54-GW032811	Sr-90	Suspended	0.001 U	0.063	0.018	0.035
RS-54	SMRS-54-GW032811	Sr-90	Total	0.006	NA	0.028	NA
RS-54	SMRS-54-GW032811	Te-125m	Filtered	-0.81 U	3.1	0.93	1.5
RS-54	SMRS-54-GW032811	Te-125m	Suspended	0.04 U	0.98	0.29	0.47
RS-54	SMRS-54-GW032811	Te-125m	Total	-0.77	NA	0.98	NA
RS-54	SMRS-54-GW032811	Th-231	Filtered	0.614	0.007	0.047	0.005
RS-54	SMRS-54-GW032811	Th-231	Suspended	0.0023 U	0.0061	0.0023	0.0047
RS-54	SMRS-54-GW032811	Th-231	Total	0.616	NA	0.047	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
RS-54	SMRS-54-GW032811	Th-234	Filtered	23	21	7.6	10
RS-54	SMRS-54-GW032811	Th-234	Suspended	0.2 U	5.3	1.6	2.6
RS-54	SMRS-54-GW032811	Th-234	Total	23.2	NA	7.8	NA
RS-54	SMRS-54-GW032811	Tl-208	Filtered	-0.45 U	1.8	0.86	0.86
RS-54	SMRS-54-GW032811	Tl-208	Suspended	0.05 U	0.6	0.16	0.29
RS-54	SMRS-54-GW032811	Tl-208	Total	-0.41	NA	0.87	NA
RS-54	SMRS-54-GW032811	Tm-171	Filtered	137 U	320	96	150
RS-54	SMRS-54-GW032811	Tm-171	Suspended	40 U	86	26	42
RS-54	SMRS-54-GW032811	Tm-171	Total	178	NA	99	NA
RS-54	SMRS-54-GW032811	U-233/234	Filtered	12.2	0.006	0.54	0.004
RS-54	SMRS-54-GW032811	U-233/234	Suspended	0.078	0.012	0.013	0.004
RS-54	SMRS-54-GW032811	U-233/234	Total	12.3	NA	0.54	NA
RS-54	SMRS-54-GW032811	U-235/236	Filtered	0.614	0.007	0.047	0.005
RS-54	SMRS-54-GW032811	U-235/236	Suspended	0.0023 U	0.0061	0.0023	0.0047
RS-54	SMRS-54-GW032811	U-235/236	Total	0.616	NA	0.047	NA
RS-54	SMRS-54-GW032811	U-238	Filtered	11.3	0.006	0.5	0.004
RS-54	SMRS-54-GW032811	U-238	Suspended	0.087	0.005	0.014	0.004
RS-54	SMRS-54-GW032811	U-238	Total	11.4	NA	0.5	NA
WS-07	SMWS-07-GW041911	Ac-227	Filtered	-1 U	9.9	2.9	4.8
WS-07	SMWS-07-GW041911	Ac-227	Suspended	0.06 U	5.2	1.5	2.6
WS-07	SMWS-07-GW041911	Ac-227	Total	-1	NA	3.3	NA
WS-07	SMWS-07-GW041911	Ac-228	Filtered	3.5	5.1	1.6	2.4
WS-07	SMWS-07-GW041911	Ac-228	Suspended	-0.8 U	3.2	1.4	1.5
WS-07	SMWS-07-GW041911	Ac-228	Total	2.7	NA	2.1	NA
WS-07	SMWS-07-GW041911	Ag-108	Filtered	0.021 U R	0.11	0.032	0.051
WS-07	SMWS-07-GW041911	Ag-108	Suspended	0.005 U R	0.054	0.016	0.026
WS-07	SMWS-07-GW041911	Ag-108	Total	0.026 R	NA	0.035	NA
WS-07	SMWS-07-GW041911	Ag-108m	Filtered	0.22 U R	1.2	0.34	0.55
WS-07	SMWS-07-GW041911	Ag-108m	Suspended	0.06 U R	0.58	0.17	0.28
WS-07	SMWS-07-GW041911	Ag-108m	Total	0.28 R	NA	0.38	NA
WS-07	SMWS-07-GW041911	Ba-133	Filtered	0 U R	16	4.5	7.5
WS-07	SMWS-07-GW041911	Ba-133	Suspended	-0.02 U R	6	1.8	2.9
WS-07	SMWS-07-GW041911	Ba-133	Total	-0.02 R	NA	4.9	NA
WS-07	SMWS-07-GW041911	Ba-137m	Filtered	-0.03 U	1.3	0.38	0.63
WS-07	SMWS-07-GW041911	Ba-137m	Suspended	0.2 U	0.72	0.22	0.35
WS-07	SMWS-07-GW041911	Ba-137m	Total	0.17	NA	0.44	NA
WS-07	SMWS-07-GW041911	Bi-212	Filtered	4.9 U	11	3.3	5.1
WS-07	SMWS-07-GW041911	Bi-212	Suspended	3.4	5.3	1.6	2.5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW041911	Bi-212	Total	8.3	NA	3.7	NA
WS-07	SMWS-07-GW041911	Bi-214	Filtered	1.1 U	3.7	1	1.8
WS-07	SMWS-07-GW041911	Bi-214	Suspended	0.91	1.7	0.61	0.8
WS-07	SMWS-07-GW041911	Bi-214	Total	2	NA	1.2	NA
WS-07	SMWS-07-GW041911	Cd-113m	Filtered	4600 U	16000	4900	7900
WS-07	SMWS-07-GW041911	Cd-113m	Suspended	700 U	7100	2100	3400
WS-07	SMWS-07-GW041911	Cd-113m	Total	5400	NA	5300	NA
WS-07	SMWS-07-GW041911	Cf-249	Filtered	1.7 U R	6.8	2	3.2
WS-07	SMWS-07-GW041911	Cf-249	Suspended	0.005 U R	3.1	0.92	1.5
WS-07	SMWS-07-GW041911	Cf-249	Total	1.7 R	NA	2.2	NA
WS-07	SMWS-07-GW041911	Co-60	Filtered	0.36 U	1.4	0.42	0.65
WS-07	SMWS-07-GW041911	Co-60	Suspended	-0.02 U	0.57	0.16	0.26
WS-07	SMWS-07-GW041911	Co-60	Total	0.34	NA	0.45	NA
WS-07	SMWS-07-GW041911	Cs-134	Filtered	-0.66 U	1.8	0.54	0.86
WS-07	SMWS-07-GW041911	Cs-134	Suspended	0.21 U	0.72	0.22	0.35
WS-07	SMWS-07-GW041911	Cs-134	Total	-0.44	NA	0.58	NA
WS-07	SMWS-07-GW041911	Cs-137	Filtered	-0.03 U	1.4	0.4	0.66
WS-07	SMWS-07-GW041911	Cs-137	Suspended	0.21 U	0.76	0.23	0.36
WS-07	SMWS-07-GW041911	Cs-137	Total	0.18	NA	0.46	NA
WS-07	SMWS-07-GW041911	Eu-152	Filtered	1 U	4.3	1.3	2.1
WS-07	SMWS-07-GW041911	Eu-152	Suspended	-0.19 U	1.9	0.55	0.9
WS-07	SMWS-07-GW041911	Eu-152	Total	0.8	NA	1.4	NA
WS-07	SMWS-07-GW041911	Eu-154	Filtered	0.9 U	11	3.2	5.3
WS-07	SMWS-07-GW041911	Eu-154	Suspended	2.8	6	1.8	2.8
WS-07	SMWS-07-GW041911	Eu-154	Total	3.8	NA	3.7	NA
WS-07	SMWS-07-GW041911	Eu-155	Filtered	-1.5 U	5	1.5	2.4
WS-07	SMWS-07-GW041911	Eu-155	Suspended	0.33 U	1.4	0.42	0.68
WS-07	SMWS-07-GW041911	Eu-155	Total	-1.2	NA	1.5	NA
WS-07	SMWS-07-GW041911	gross_alpha	Filtered	2.82	0.48	0.33	0.26
WS-07	SMWS-07-GW041911	gross_alpha	Suspended	0.38	0.59	0.19	0.32
WS-07	SMWS-07-GW041911	gross_alpha	Total	3.2	NA	0.38	NA
WS-07	SMWS-07-GW041911	gross_beta	Filtered	5.2	2.8	1	1.7
WS-07	SMWS-07-GW041911	gross_beta	Suspended	-0.17 U	0.82	0.23	0.49
WS-07	SMWS-07-GW041911	gross_beta	Total	5	NA	1.1	NA
WS-07	SMWS-07-GW041911	H-3	Total	-12 U	150	45	75
WS-07	SMWS-07-GW041911	Ho-166m	Filtered	-0.12 U	2.5	0.71	1.2
WS-07	SMWS-07-GW041911	Ho-166m	Suspended	0.4 U	1.2	0.36	0.57
WS-07	SMWS-07-GW041911	Ho-166m	Total	0.28	NA	0.79	NA

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW041911	K-40	Filtered	-9 U	21	19	10
WS-07	SMWS-07-GW041911	K-40	Suspended	7.9	12	3.2	5.7
WS-07	SMWS-07-GW041911	K-40	Total	-2	NA	19	NA
WS-07	SMWS-07-GW041911	Na-22	Filtered	-0.03 U	1.6	0.45	0.74
WS-07	SMWS-07-GW041911	Na-22	Suspended	0.06 U	0.69	0.2	0.32
WS-07	SMWS-07-GW041911	Na-22	Total	0.03	NA	0.49	NA
WS-07	SMWS-07-GW041911	Nb-94	Filtered	0 U	1.6	0.47	0.78
WS-07	SMWS-07-GW041911	Nb-94	Suspended	-0.11 U	0.56	0.16	0.26
WS-07	SMWS-07-GW041911	Nb-94	Total	-0.11	NA	0.5	NA
WS-07	SMWS-07-GW041911	Np-236	Filtered	-0.01 U	3.6	1.1	1.8
WS-07	SMWS-07-GW041911	Np-236	Suspended	0.02 U	1.2	0.36	0.6
WS-07	SMWS-07-GW041911	Np-236	Total	0.002	NA	1.1	NA
WS-07	SMWS-07-GW041911	Np-239	Filtered	1 U	8.9	2.6	4.3
WS-07	SMWS-07-GW041911	Np-239	Suspended	0.6 U	3.8	1.1	1.9
WS-07	SMWS-07-GW041911	Np-239	Total	1.7	NA	2.9	NA
WS-07	SMWS-07-GW041911	Pa-231	Filtered	-2 U	61	18	29
WS-07	SMWS-07-GW041911	Pa-231	Suspended	-2.5 U	26	7.6	12
WS-07	SMWS-07-GW041911	Pa-231	Total	-4	NA	19	NA
WS-07	SMWS-07-GW041911	Pb-212	Filtered	1.02 U	2.8	0.79	1.3
WS-07	SMWS-07-GW041911	Pb-212	Suspended	0.24 U	1.2	0.4	0.56
WS-07	SMWS-07-GW041911	Pb-212	Total	1.26	NA	0.89	NA
WS-07	SMWS-07-GW041911	Pb-214	Filtered	1.46 U	3.1	0.94	1.5
WS-07	SMWS-07-GW041911	Pb-214	Suspended	1.25	1.4	0.53	0.67
WS-07	SMWS-07-GW041911	Pb-214	Total	2.7	NA	1.1	NA
WS-07	SMWS-07-GW041911	Sb-125	Filtered	3.9 U	16	4.9	7.9
WS-07	SMWS-07-GW041911	Sb-125	Suspended	1.8 U	6	1.8	2.9
WS-07	SMWS-07-GW041911	Sb-125	Total	5.7	NA	5.2	NA
WS-07	SMWS-07-GW041911	Sn-126	Filtered	0.4 U	1.6	0.46	0.73
WS-07	SMWS-07-GW041911	Sn-126	Suspended	-0.05 U	0.89	0.26	0.43
WS-07	SMWS-07-GW041911	Sn-126	Total	0.35	NA	0.53	NA
WS-07	SMWS-07-GW041911	Sr-90	Filtered	0 U	0.15	0.044	0.087
WS-07	SMWS-07-GW041911	Sr-90	Suspended	-0.007 U	0.064	0.018	0.034
WS-07	SMWS-07-GW041911	Sr-90	Total	-0.05	NA	0.057	NA
WS-07	SMWS-07-GW041911	Te-125m	Filtered	0.9 U	3.8	1.1	1.8
WS-07	SMWS-07-GW041911	Te-125m	Suspended	0.41 U	1.4	0.41	0.67
WS-07	SMWS-07-GW041911	Te-125m	Total	1.3	NA	1.2	NA
WS-07	SMWS-07-GW041911	Th-231	Filtered	0.052	0.007	0.012	0.005
WS-07	SMWS-07-GW041911	Th-231	Suspended	-0.0021 U	0.018	0.0021	0.0055

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-07	SMWS-07-GW041911	Th-231	Total	0.05	NA	0.012	NA
WS-07	SMWS-07-GW041911	Th-234	Filtered	0.5 U	47	16	23
WS-07	SMWS-07-GW041911	Th-234	Suspended	1.1 U	8.8	2.5	4.3
WS-07	SMWS-07-GW041911	Th-234	Total	2	NA	16	NA
WS-07	SMWS-07-GW041911	Tl-208	Filtered	1.1	1.3	0.41	0.6
WS-07	SMWS-07-GW041911	Tl-208	Suspended	0.14 U	0.72	0.22	0.34
WS-07	SMWS-07-GW041911	Tl-208	Total	1.25	NA	0.46	NA
WS-07	SMWS-07-GW041911	Tm-171	Filtered	-190 U	740	220	360
WS-07	SMWS-07-GW041911	Tm-171	Suspended	20 U	120	35	57
WS-07	SMWS-07-GW041911	Tm-171	Total	-170	NA	230	NA
WS-07	SMWS-07-GW041911	U-233/234	Filtered	1.19	0.014	0.071	0.004
WS-07	SMWS-07-GW041911	U-233/234	Suspended	-0.003 U	0.022	0.0066	0.0088
WS-07	SMWS-07-GW041911	U-233/234	Total	1.18	NA	0.071	NA
WS-07	SMWS-07-GW041911	U-235/236	Filtered	0.052	0.007	0.012	0.005
WS-07	SMWS-07-GW041911	U-235/236	Suspended	-0.0021 U	0.018	0.0021	0.0055
WS-07	SMWS-07-GW041911	U-235/236	Total	0.05	NA	0.012	NA
WS-07	SMWS-07-GW041911	U-238	Filtered	0.958	0.006	0.06	0.004
WS-07	SMWS-07-GW041911	U-238	Suspended	0.0011 U	0.018	0.0057	0.0062
WS-07	SMWS-07-GW041911	U-238	Total	0.959	NA	0.061	NA
WS-9A	SOWS-09A-GW060311	Ac-227	Filtered	-3.8 U	13	3.9	6.4
WS-9A	SOWS-09A-GW060311	Ac-227	Suspended	0.04 U	6.3	1.9	3.1
WS-9A	SOWS-09A-GW060311	Ac-227	Total	-3.8	NA	4.4	NA
WS-9A	SOWS-09A-GW060311	Ac-228	Filtered	1.9 U	6.6	1	3
WS-9A	SOWS-09A-GW060311	Ac-228	Suspended	1.07 U	3.4	0.48	1.6
WS-9A	SOWS-09A-GW060311	Ac-228	Total	3	NA	1.1	NA
WS-9A	SOWS-09A-GW060311	Ag-108	Filtered	-0.035 U R	0.12	0.037	0.06
WS-9A	SOWS-09A-GW060311	Ag-108	Suspended	0.0029 U R	0.065	0.002	0.031
WS-9A	SOWS-09A-GW060311	Ag-108	Total	-0.032 R	NA	0.037	NA
WS-9A	SOWS-09A-GW060311	Ag-108m	Filtered	-0.37 U R	1.3	0.4	0.64
WS-9A	SOWS-09A-GW060311	Ag-108m	Suspended	0.031 U R	0.7	0.021	0.34
WS-9A	SOWS-09A-GW060311	Ag-108m	Total	-0.34 R	NA	0.4	NA
WS-9A	SOWS-09A-GW060311	Ba-133	Filtered	0.42 U R	1.2	0.35	0.55
WS-9A	SOWS-09A-GW060311	Ba-133	Suspended	-0.0088 U R	0.66	0.0054	0.32
WS-9A	SOWS-09A-GW060311	Ba-133	Total	0.41 R	NA	0.35	NA
WS-9A	SOWS-09A-GW060311	Ba-137m	Filtered	0.03 U	1.1	0.31	0.51
WS-9A	SOWS-09A-GW060311	Ba-137m	Suspended	-0.03 U	0.56	0.16	0.26
WS-9A	SOWS-09A-GW060311	Ba-137m	Total	0.0004	NA	0.35	NA
WS-9A	SOWS-09A-GW060311	Bi-212	Filtered	3.6 U	11	1.7	5

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-9A	SOWS-09A-GW060311	Bi-212	Suspended	-2.2 U	6.1	3.5	2.9
WS-9A	SOWS-09A-GW060311	Bi-212	Total	1.4	NA	3.9	NA
WS-9A	SOWS-09A-GW060311	Bi-214	Filtered	1.6	3	1.1	1.4
WS-9A	SOWS-09A-GW060311	Bi-214	Suspended	1.07	1.7	0.69	0.8
WS-9A	SOWS-09A-GW060311	Bi-214	Total	2.7	NA	1.3	NA
WS-9A	SOWS-09A-GW060311	Cd-113m	Filtered	-200 U	3400	1000	1700
WS-9A	SOWS-09A-GW060311	Cd-113m	Suspended	180 U	1800	530	860
WS-9A	SOWS-09A-GW060311	Cd-113m	Total	-50	NA	1100	NA
WS-9A	SOWS-09A-GW060311	Cf-249	Filtered	0.44 U R	6	0.3	2.9
WS-9A	SOWS-09A-GW060311	Cf-249	Suspended	0.37 U R	2.9	0.85	1.4
WS-9A	SOWS-09A-GW060311	Cf-249	Total	0.81 R	NA	0.91	NA
WS-9A	SOWS-09A-GW060311	Co-60	Filtered	0.53 U	1.3	0.3	0.59
WS-9A	SOWS-09A-GW060311	Co-60	Suspended	0.14 U	0.51	0.12	0.23
WS-9A	SOWS-09A-GW060311	Co-60	Total	0.67	NA	0.32	NA
WS-9A	SOWS-09A-GW060311	Cs-134	Filtered	0.32 U	1.2	0.19	0.59
WS-9A	SOWS-09A-GW060311	Cs-134	Suspended	0.36 U	0.78	0.14	0.38
WS-9A	SOWS-09A-GW060311	Cs-134	Total	0.68	NA	0.24	NA
WS-9A	SOWS-09A-GW060311	Cs-137	Filtered	0.03 U	1.1	0.33	0.53
WS-9A	SOWS-09A-GW060311	Cs-137	Suspended	-0.03 U	0.59	0.17	0.28
WS-9A	SOWS-09A-GW060311	Cs-137	Total	0.0004	NA	0.37	NA
WS-9A	SOWS-09A-GW060311	Eu-152	Filtered	1.4 U	3.3	1	1.6
WS-9A	SOWS-09A-GW060311	Eu-152	Suspended	-0.07 U	1.7	0.49	0.81
WS-9A	SOWS-09A-GW060311	Eu-152	Total	1.4	NA	1.1	NA
WS-9A	SOWS-09A-GW060311	Eu-154	Filtered	0.51 U	7.2	0.85	3.4
WS-9A	SOWS-09A-GW060311	Eu-154	Suspended	-0.26 U	3.8	0.25	1.8
WS-9A	SOWS-09A-GW060311	Eu-154	Total	0.25	NA	0.89	NA
WS-9A	SOWS-09A-GW060311	Eu-155	Filtered	0.17 U	2.6	0.77	1.3
WS-9A	SOWS-09A-GW060311	Eu-155	Suspended	0.16 U	1.1	0.34	0.55
WS-9A	SOWS-09A-GW060311	Eu-155	Total	0.33	NA	0.84	NA
WS-9A	SOWS-09A-GW060311	gross_alpha	Filtered	1.64	0.47	0.28	0.24
WS-9A	SOWS-09A-GW060311	gross_alpha	Suspended	0.37 U	0.77	0.24	0.42
WS-9A	SOWS-09A-GW060311	gross_alpha	Total	2.01	NA	0.36	NA
WS-9A	SOWS-09A-GW060311	gross_beta	Filtered	2.36	2.4	0.8	1.5
WS-9A	SOWS-09A-GW060311	gross_beta	Suspended	-0.1 U	0.97	0.27	0.59
WS-9A	SOWS-09A-GW060311	gross_beta	Total	2.26	NA	0.84	NA
WS-9A	SOWS-09A-GW060311	H-3	Total	-14 U	140	42	70
WS-9A	SOWS-09A-GW060311	Ho-166m	Filtered	0.35 U	1.7	0.4	0.77
WS-9A	SOWS-09A-GW060311	Ho-166m	Suspended	0.11 U	0.97	0.28	0.46

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-9A	SOWS-09A-GW060311	Ho-166m	Total	0.46	NA	0.49	NA
WS-9A	SOWS-09A-GW060311	K-40	Filtered	-5.6 U	18	8.8	8.4
WS-9A	SOWS-09A-GW060311	K-40	Suspended	0.2 U	7.6	1.8	3.6
WS-9A	SOWS-09A-GW060311	K-40	Total	-5.3	NA	8.9	NA
WS-9A	SOWS-09A-GW060311	Na-22	Filtered	0 U	1.7	0.29	0.82
WS-9A	SOWS-09A-GW060311	Na-22	Suspended	-0.04 U	0.68	0.19	0.32
WS-9A	SOWS-09A-GW060311	Na-22	Total	-0.04	NA	0.34	NA
WS-9A	SOWS-09A-GW060311	Nb-94	Filtered	-0.21 U	1.1	0.32	0.51
WS-9A	SOWS-09A-GW060311	Nb-94	Suspended	-0.01 U	0.62	0.18	0.29
WS-9A	SOWS-09A-GW060311	Nb-94	Total	-0.22	NA	0.36	NA
WS-9A	SOWS-09A-GW060311	Np-236	Filtered	-0.37 U	3	0.88	1.4
WS-9A	SOWS-09A-GW060311	Np-236	Suspended	-0.004 U	1	0.31	0.51
WS-9A	SOWS-09A-GW060311	Np-236	Total	-0.38	NA	0.94	NA
WS-9A	SOWS-09A-GW060311	Np-239	Filtered	-1.9 U	7.7	2.3	3.7
WS-9A	SOWS-09A-GW060311	Np-239	Suspended	0.1 U	3.6	1.1	1.8
WS-9A	SOWS-09A-GW060311	Np-239	Total	-1.8	NA	2.6	NA
WS-9A	SOWS-09A-GW060311	Pa-231	Filtered	-2 U	56	16	27
WS-9A	SOWS-09A-GW060311	Pa-231	Suspended	-6.6 U	27	8	13
WS-9A	SOWS-09A-GW060311	Pa-231	Total	-9	NA	18	NA
WS-9A	SOWS-09A-GW060311	Pb-212	Filtered	0.99 U	2.3	0.76	1.1
WS-9A	SOWS-09A-GW060311	Pb-212	Suspended	0.4 U	1.2	0.4	0.6
WS-9A	SOWS-09A-GW060311	Pb-212	Total	1.39	NA	0.86	NA
WS-9A	SOWS-09A-GW060311	Pb-214	Filtered	0.83 U	2.3	0.81	1.1
WS-9A	SOWS-09A-GW060311	Pb-214	Suspended	0.4 U	1.4	0.51	0.68
WS-9A	SOWS-09A-GW060311	Pb-214	Total	1.24	NA	0.96	NA
WS-9A	SOWS-09A-GW060311	Sb-125	Filtered	0.82 U	3.7	0.81	1.8
WS-9A	SOWS-09A-GW060311	Sb-125	Suspended	0.22 U	1.7	0.24	0.8
WS-9A	SOWS-09A-GW060311	Sb-125	Total	1.05	NA	0.85	NA
WS-9A	SOWS-09A-GW060311	Sn-126	Filtered	0.25 U	1.2	0.36	0.58
WS-9A	SOWS-09A-GW060311	Sn-126	Suspended	0.48	0.74	0.23	0.36
WS-9A	SOWS-09A-GW060311	Sn-126	Total	0.73	NA	0.43	NA
WS-9A	SOWS-09A-GW060311	Sr-90	Filtered	0.04 U	0.15	0.044	0.084
WS-9A	SOWS-09A-GW060311	Sr-90	Suspended	0.071 K	0.12	0.037	0.068
WS-9A	SOWS-09A-GW060311	Sr-90	Total	0.111	NA	0.058	NA
WS-9A	SOWS-09A-GW060311	Te-125m	Filtered	0.19 U	0.86	0.19	0.41
WS-9A	SOWS-09A-GW060311	Te-125m	Suspended	0.052 U	0.38	0.055	0.18
WS-9A	SOWS-09A-GW060311	Te-125m	Total	0.24	NA	0.2	NA
WS-9A	SOWS-09A-GW060311	Th-231	Filtered	0.0177	0.0068	0.0067	0.0059

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

Well Identification	Sample Identification	Analtye Name	Analysis Basis	Activity	MDC	TPU	Critical Value
WS-9A	SOWS-09A-GW060311	Th-231	Suspended	0 U	0.0072	0.0027	0.0062
WS-9A	SOWS-09A-GW060311	Th-231	Total	0.0177	NA	0.0072	NA
WS-9A	SOWS-09A-GW060311	Th-234	Filtered	4.2 U	15	5.2	7.5
WS-9A	SOWS-09A-GW060311	Th-234	Suspended	2 U	5.9	1.5	2.9
WS-9A	SOWS-09A-GW060311	Th-234	Total	6.2	NA	5.4	NA
WS-9A	SOWS-09A-GW060311	Tl-208	Filtered	0.04 U	1.4	0.22	0.69
WS-9A	SOWS-09A-GW060311	Tl-208	Suspended	0.14 U	0.74	0.23	0.35
WS-9A	SOWS-09A-GW060311	Tl-208	Total	0.19	NA	0.31	NA
WS-9A	SOWS-09A-GW060311	Tm-171	Filtered	40 U	360	110	170
WS-9A	SOWS-09A-GW060311	Tm-171	Suspended	12 U	120	35	58
WS-9A	SOWS-09A-GW060311	Tm-171	Total	50	NA	110	NA
WS-9A	SOWS-09A-GW060311	U-233/234	Filtered	0.771	0.019	0.051	0.007
WS-9A	SOWS-09A-GW060311	U-233/234	Suspended	0.0107	0.0058	0.0048	0.005
WS-9A	SOWS-09A-GW060311	U-233/234	Total	0.782	NA	0.052	NA
WS-9A	SOWS-09A-GW060311	U-235/236	Filtered	0.0177	0.0068	0.0067	0.0059
WS-9A	SOWS-09A-GW060311	U-235/236	Suspended	0 U	0.0072	0.0027	0.0062
WS-9A	SOWS-09A-GW060311	U-235/236	Total	0.0177	NA	0.0072	NA
WS-9A	SOWS-09A-GW060311	U-238	Filtered	0.568	0.03	0.042	0.012
WS-9A	SOWS-09A-GW060311	U-238	Suspended	0 U	0.02	0.0043	0.007
WS-9A	SOWS-09A-GW060311	U-238	Total	0.568	NA	0.043	NA

Notes:

The MDC and Critical Value was not calculated for the "total" fraction of the sample as per the Qualiy Assurance Project Plan.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter

MDC - minimum detectable concentration

NA - not applicable

NORM - naturally occurring radioactive material

TPU - total propagated uncertainty

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration; the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration, which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-13	RD-13_082410_01	Sb-125	Dissolved	1.61 U	2.9	5	SMRD-013-GW082410	Sb-125	Filtered	0.09 U	3.9	13
RD-13	RD-13_082410_01	Sb-125	Particulate	-1.13 U	5.3	9.28	SMRD-013-GW082410	Sb-125	Suspended	0.1 U	1.4	4.9
RD-13	RD-13_082410_01	Cs-134	Dissolved	-0.167 U	1.1	1.91	SMRD-013-GW082410	Cs-134	Filtered	-0.19 U	0.46	1.6
RD-13	RD-13_082410_01	Cs-134	Particulate	-2.5 U	2.6	4.84	SMRD-013-GW082410	Cs-134	Suspended	0.09 U	0.17	0.58
RD-13	RD-13_082410_01	Cs-137	Dissolved	1.59 U	1.6	2.74	SMRD-013-GW082410	Cs-137	Filtered	-0.4 U	1.2	1.9
RD-13	RD-13_082410_01	Cs-137	Particulate	-0.33 U	1.7	3.04	SMRD-013-GW082410	Cs-137	Suspended	0.31	0.17	0.55
RD-13	RD-13_082410_01	Co-60	Dissolved	-0.215 U	0.97	1.79	SMRD-013-GW082410	Co-60	Filtered	0.009 U	0.44	1.6
RD-13	RD-13_082410_01	Co-60	Particulate	-0.612 U	2.1	3.89	SMRD-013-GW082410	Co-60	Suspended	0 U	0.042	0.2
RD-13	RD-13_082410_01	Eu-152	Dissolved	-0.826 U	3.5	6.04	SMRD-013-GW082410	Eu-152	Filtered	-0.8 U	1.3	4.5
RD-13	RD-13_082410_01	Eu-152	Particulate	3.02 U	5.3	8.97	SMRD-013-GW082410	Eu-152	Suspended	-0.07 U	0.33	1.2
RD-13	RD-13_082410_01	Eu-154	Dissolved	1.02 U	2.5	4.44	SMRD-013-GW082410	Eu-154	Filtered	-2.4 U	4.2	14
RD-13	RD-13_082410_01	Eu-154	Particulate	0.006 U	5.1	9.36	SMRD-013-GW082410	Eu-154	Suspended	-0.6 U	1.6	5.6
RD-13	RD-13_082410_01	Eu-155	Dissolved	2.62 U	3.4	5.74	SMRD-013-GW082410	Eu-155	Filtered	0 U	0.95	3.2
RD-13	RD-13_082410_01	Eu-155	Particulate	3.94 U	5.2	8.81	SMRD-013-GW082410	Eu-155	Suspended	0.61 SK	0.31	1
RD-13	RD-13_082410_01	gross_alpha	Dissolved	4.03	1.6	1.61	SMRD-013-GW082410	gross_alpha	Filtered	5.84	0.55	0.4
RD-13	RD-13_082410_01	gross_alpha	Particulate	0.919 U	0.79	1.17	SMRD-013-GW082410	gross_alpha	Suspended	0.41	0.19	0.55
RD-13	RD-13_082410_01	gross_beta	Dissolved	4.62	2.2	3.29	SMRD-013-GW082410	gross_beta	Filtered	5.5	1	2.8
RD-13	RD-13_082410_01	gross_beta	Particulate	-0.661 U	1.9	3.23	SMRD-013-GW082410	gross_beta	Suspended	0.3 U	0.22	0.72
RD-13	RD-13_082410_01	K-40	Dissolved	-2.47 U	15	27	SMRD-013-GW082410	K-40	Filtered	-19 U	33	27
RD-13	RD-13_082410_01	K-40	Particulate	2.75 U	31	55.2	SMRD-013-GW082410	K-40	Suspended	-2.2 U	3.3	9.8
RD-13	RD-13_082410_01	Na-22	Dissolved	0.353 U	0.87	1.54	SMRD-013-GW082410	Na-22	Filtered	0.02 U	0.53	1.9
RD-13	RD-13_082410_01	Na-22	Particulate	0.002 U	1.8	3.24	SMRD-013-GW082410	Na-22	Suspended	0.15 U	0.16	0.56
RD-13	RD-13_082410_01	Sr-90	Dissolved	-0.1 U	0.33	0.595	SMRD-013-GW082410	Sr-90	Filtered	0.111 U	0.07	0.23
RD-13	RD-13_082410_01	Sr-90	Particulate	-0.088 U	0.24	0.482	SMRD-013-GW082410	Sr-90	Suspended	-0.023 U	0.045	0.16
RD-13	RD-13_082410_01	H-3	Total	73.3 U	89	146	SMRD-013-GW082410	H-3	Filtered	-28 U	42	150
RD-13	RD-13_082410_01	U-233/234	Dissolved	2.37	0.3	0.126	SMRD-013-GW082410	U-233/234	Filtered	2.54	0.16	0.04
RD-13	RD-13_082410_01	U-233/234	Particulate	0 U	0.024	0.074	SMRD-013-GW082410	U-233/234	Suspended	-0.0112 U	0.0098	0.04
RD-13	RD-13_082410_01	U-235/236	Dissolved	0.1 J	0.08	0.096	SMRD-013-GW082410	U-235/236	Filtered	0.064	0.021	0.038
RD-13	RD-13_082410_01	U-235/236	Particulate	0 U	0.015	0.056	SMRD-013-GW082410	U-235/236	Suspended	-0.003 U	0.0093	0.044
RD-13	RD-13_082410_01	U-238	Dissolved	1.86	0.26	0.091	SMRD-013-GW082410	U-238	Filtered	1.85	0.12	0.04
RD-13	RD-13_082410_01	U-238	Particulate	-0.006 U	0.012	0.046	SMRD-013-GW082410	U-238	Suspended	0.0032 U	0.0092	0.029

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-14	RD-14_081910_01	Sb-125	Dissolved	1.1 U	3.5	5.99	SMRD-14-GW081910	Sb-125	Filtered	-1.6 U	4	13
RD-14	RD-14_081910_01	Sb-125	Particulate	0.616 U	2.8	4.81	SMRD-14-GW081910	Sb-125	Suspended	1.8 U	1.8	6
RD-14	RD-14_081910_01	Cs-134	Dissolved	0.3 U	1.5	2.62	SMRD-14-GW081910	Cs-134	Filtered	-0.64 U	0.51	1.7
RD-14	RD-14_081910_01	Cs-134	Particulate	-0.046 U	2.2	2.67	SMRD-14-GW081910	Cs-134	Suspended	-0.005 U	0.23	0.78
RD-14	RD-14_081910_01	Cs-137	Dissolved	0.223 U	1.3	2.32	SMRD-14-GW081910	Cs-137	Filtered	-0.23 U	0.46	1.6
RD-14	RD-14_081910_01	Cs-137	Particulate	0.471 U	1.6	2.78	SMRD-14-GW081910	Cs-137	Suspended	0.18 U	0.19	0.63
RD-14	RD-14_081910_01	Co-60	Dissolved	0.662 U	1.2	2	SMRD-14-GW081910	Co-60	Filtered	0.37 U	0.38	1.3
RD-14	RD-14_081910_01	Co-60	Particulate	-0.565 U	1.1	2.2	SMRD-14-GW081910	Co-60	Suspended	0.28 U	0.2	0.67
RD-14	RD-14_081910_01	Eu-152	Dissolved	-2.04 U	4.3	7.49	SMRD-14-GW081910	Eu-152	Filtered	0.17 U	0.87	3
RD-14	RD-14_081910_01	Eu-152	Particulate	1.24 U	4.1	7.14	SMRD-14-GW081910	Eu-152	Suspended	-0.38 U	0.53	1.8
RD-14	RD-14_081910_01	Eu-154	Dissolved	-0.015 U	2.5	4.52	SMRD-14-GW081910	Eu-154	Filtered	2.6 U	3.2	11
RD-14	RD-14_081910_01	Eu-154	Particulate	-0.692 U	2.4	4.69	SMRD-14-GW081910	Eu-154	Suspended	2.2 U	1.6	5.5
RD-14	RD-14_081910_01	Eu-155	Dissolved	-2.65 U	6.4	10.9	SMRD-14-GW081910	Eu-155	Filtered	-0.2 U	0.64	2.2
RD-14	RD-14_081910_01	Eu-155	Particulate	0.477 U	3.8	6.55	SMRD-14-GW081910	Eu-155	Suspended	0.05 U	0.35	1.2
RD-14	RD-14_081910_01	gross_alpha	Dissolved	2.21 J	1.3	1.6	SMRD-14-GW081910	gross_alpha	Filtered	3.92	0.39	0.51
RD-14	RD-14_081910_01	gross_alpha	Particulate	2.7 J	0.93	0.938	SMRD-14-GW081910	gross_alpha	Suspended	1.02	0.27	0.64
RD-14	RD-14_081910_01	gross_beta	Dissolved	5.88	1.8	2.7	SMRD-14-GW081910	gross_beta	Filtered	4.93	0.57	1.2
RD-14	RD-14_081910_01	gross_beta	Particulate	2.03 U	1.6	2.57	SMRD-14-GW081910	gross_beta	Suspended	1.51	0.3	0.8
RD-14	RD-14_081910_01	K-40	Dissolved	-4.1 U	20	35.5	SMRD-14-GW081910	K-40	Filtered	29.5	5	6.9
RD-14	RD-14_081910_01	K-40	Particulate	-2.84 U	19	34.3	SMRD-14-GW081910	K-40	Suspended	5.7	3.6	12
RD-14	RD-14_081910_01	Na-22	Dissolved	-0.005 U	0.86	1.57	SMRD-14-GW081910	Na-22	Filtered	-0.38 U	0.47	1.6
RD-14	RD-14_081910_01	Na-22	Particulate	-0.239 U	0.83	1.62	SMRD-14-GW081910	Na-22	Suspended	0.18 U	0.24	0.81
RD-14	RD-14_081910_01	Sr-90	Dissolved	0.084 U	0.34	0.622	SMRD-14-GW081910	Sr-90	Suspended	-0.005 U	0.021	0.074
RD-14	RD-14_081910_01	H-3	Total	-41.7 U	91	156	SMRD-14-GW081910	H-3	Filtered	6 U	41	140
RD-14	RD-14_081910_01	U-233/234	Dissolved	2.08	0.21	0.069	SMRD-14-GW081910	U-233/234	Filtered	2.35	0.14	0.04
RD-14	RD-14_081910_01	U-233/234	Particulate	0.082 J	0.047	0.064	SMRD-14-GW081910	U-233/234	Suspended	0.013 U	0.014	0.043
RD-14	RD-14_081910_01	U-235/236	Dissolved	0.081 J	0.044	0.052	SMRD-14-GW081910	U-235/236	Filtered	0.104	0.027	0.044
RD-14	RD-14_081910_01	U-235/236	Particulate	0.007 U	0.014	0.054	SMRD-14-GW081910	U-235/236	Suspended	0 U	0.0021	0.015
RD-14	RD-14_081910_01	U-238	Dissolved	1.59	0.18	0.05	SMRD-14-GW081910	U-238	Filtered	2.07	0.13	0.01
RD-14	RD-14_081910_01	U-238	Particulate	0.017 U	0.023	0.056	SMRD-14-GW081910	U-238	Suspended	0.022	0.012	0.028
RD-18	RD-18_081910_01	Sb-125	Dissolved	0.635 U	2.7	4.75	SMRD-18-GW081910	Sb-125	Filtered	-0.2 U	3.6	12

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-18	RD-18_081910_01	Sb-125	Particulate	0.536 U	5.5	9.52	SMRD-18-GW081910	Sb-125	Suspended	-0.5 U	1.7	5.6
RD-18	RD-18_081910_01	Cs-134	Dissolved	-0.34 U	1.3	2.25	SMRD-18-GW081910	Cs-134	Filtered	-0.33 U	0.45	1.5
RD-18	RD-18_081910_01	Cs-134	Particulate	1.52 U	2.7	3.55	SMRD-18-GW081910	Cs-134	Suspended	0.004 U	0.27	0.92
RD-18	RD-18_081910_01	Cs-137	Dissolved	0.431 U	1.2	2.01	SMRD-18-GW081910	Cs-137	Filtered	0.38 U	0.33	1.1
RD-18	RD-18_081910_01	Cs-137	Particulate	-0.373 U	1.7	2.99	SMRD-18-GW081910	Cs-137	Suspended	0.17 U	0.2	0.69
RD-18	RD-18_081910_01	Co-60	Dissolved	-0.115 U	1.4	2.52	SMRD-18-GW081910	Co-60	Filtered	-0.01 U	0.35	1.2
RD-18	RD-18_081910_01	Co-60	Particulate	0.1 U	2.3	4.02	SMRD-18-GW081910	Co-60	Suspended	0.004 U	0.22	0.78
RD-18	RD-18_081910_01	Eu-152	Dissolved	-2.78 U	4.5	7.88	SMRD-18-GW081910	Eu-152	Filtered	-0.5 U	1	3.4
RD-18	RD-18_081910_01	Eu-152	Particulate	0.853 U	4.6	7.97	SMRD-18-GW081910	Eu-152	Suspended	0.34 U	0.53	1.8
RD-18	RD-18_081910_01	Eu-154	Dissolved	-0.584 U	2	3.81	SMRD-18-GW081910	Eu-154	Filtered	-1 U	2.7	9.5
RD-18	RD-18_081910_01	Eu-154	Particulate	-2.32 U	3.6	7.04	SMRD-18-GW081910	Eu-154	Suspended	2.1 U	1.7	5.6
RD-18	RD-18_081910_01	Eu-155	Dissolved	2.06 U	3.2	5.43	SMRD-18-GW081910	Eu-155	Filtered	0.6 U	1	3.4
RD-18	RD-18_081910_01	Eu-155	Particulate	2.83 U	3.4	5.75	SMRD-18-GW081910	Eu-155	Suspended	0.38 U	0.31	1
RD-18	RD-18_081910_01	gross_alpha	Dissolved	5.94	1.3	1.17	SMRD-18-GW081910	gross_alpha	Filtered	5.84	0.49	0.41
RD-18	RD-18_081910_01	gross_alpha	Particulate	0.158 U	0.28	0.528	SMRD-18-GW081910	gross_alpha	Suspended	9.67	0.92	0.9
RD-18	RD-18_081910_01	gross_beta	Dissolved	6.88	1.6	2.54	SMRD-18-GW081910	gross_beta	Filtered	5.19	0.56	1.1
RD-18	RD-18_081910_01	gross_beta	Particulate	-0.824 U	0.88	1.58	SMRD-18-GW081910	gross_beta	Suspended	0.62	0.27	0.83
RD-18	RD-18_081910_01	K-40	Dissolved	7.88 U	12	20	SMRD-18-GW081910	K-40	Filtered	2.4 U	5.9	23
RD-18	RD-18_081910_01	K-40	Particulate	-11.4 U	22	40.6	SMRD-18-GW081910	K-40	Suspended	2.6 U	3.1	9.6
RD-18	RD-18_081910_01	Na-22	Dissolved	-0.202 U	0.68	1.32	SMRD-18-GW081910	Na-22	Filtered	-0.13 U	0.34	1.2
RD-18	RD-18_081910_01	Na-22	Particulate	-0.804 U	1.2	2.44	SMRD-18-GW081910	Na-22	Suspended	0.33	0.21	0.71
RD-18	RD-18_081910_01	Sr-90	Dissolved	-0.116 U	0.31	0.602	SMRD-18-GW081910	Sr-90	Suspended	-0.004 U	0.024	0.083
RD-18	RD-18_081910_01	H-3	Total	-4.53 U	90	153	SMRD-18-GW081910	H-3	Filtered	-4 U	41	140
RD-18	RD-18_081910_01	U-233/234	Dissolved	3.05	0.26	0.066	SMRD-18-GW081910	U-233/234	Filtered	3.39	0.19	0.05
RD-18	RD-18_081910_01	U-233/234	Particulate	0.032 U	0.043	0.072	SMRD-18-GW081910	U-233/234	Suspended	0.015 U	0.014	0.042
RD-18	RD-18_081910_01	U-235/236	Dissolved	0.139 J	0.056	0.043	SMRD-18-GW081910	U-235/236	Filtered	0.146	0.031	0.036
RD-18	RD-18_081910_01	U-235/236	Particulate	0.007 U	0.026	0.063	SMRD-18-GW081910	U-235/236	Suspended	0.0094	0.0085	0.029
RD-18	RD-18_081910_01	U-238	Dissolved	2.57	0.24	0.057	SMRD-18-GW081910	U-238	Filtered	2.48	0.15	0.04
RD-18	RD-18_081910_01	U-238	Particulate	0.005 U	0.022	0.06	SMRD-18-GW081910	U-238	Suspended	0.018	0.013	0.035
RD-19	RD-19_081910_01	Sb-125	Dissolved	1.92 U	4.4	7.62	SMRD-019-GW081910	Sb-125	Filtered	0.9 U	4.9	16
RD-19	RD-19_081910_01	Sb-125	Particulate	-0.859 U	3.7	6.63	SMRD-019-GW081910	Sb-125	Suspended	1.3 U	1.6	5.2

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-19	RD-19_081910_01	Cs-134	Dissolved	-0.609 U	1.9	3.59	SMRD-019-GW081910	Cs-134	Filtered	0.32 U	0.46	1.5
RD-19	RD-19_081910_01	Cs-134	Particulate	0.056 U	2.2	3.97	SMRD-019-GW081910	Cs-134	Suspended	0.337 U	0.099	0.73
RD-19	RD-19_081910_01	Cs-137	Dissolved	1.52 U	2.3	3.93	SMRD-019-GW081910	Cs-137	Filtered	0.6 U	0.41	1.4
RD-19	RD-19_081910_01	Cs-137	Particulate	0.184 U	2	3.61	SMRD-019-GW081910	Cs-137	Suspended	0.02 U	0.23	0.78
RD-19	RD-19_081910_01	Co-60	Dissolved	0.752 U	2.1	3.78	SMRD-019-GW081910	Co-60	Filtered	0.55 U	0.41	1.4
RD-19	RD-19_081910_01	Co-60	Particulate	-1.68 U	1.9	3.84	SMRD-019-GW081910	Co-60	Suspended	0.1 U	0.19	0.65
RD-19	RD-19_081910_01	Eu-152	Dissolved	2.2 U	10	17.7	SMRD-019-GW081910	Eu-152	Filtered	1 U	1.2	4.1
RD-19	RD-19_081910_01	Eu-152	Particulate	-4.27 U	5.2	9.36	SMRD-019-GW081910	Eu-152	Suspended	0.02 U	0.5	1.7
RD-19	RD-19_081910_01	Eu-154	Dissolved	-1.32 U	5.9	11	SMRD-019-GW081910	Eu-154	Filtered	-1.3 U	3.3	11
RD-19	RD-19_081910_01	Eu-154	Particulate	-3.04 U	5.1	9.99	SMRD-019-GW081910	Eu-154	Suspended	1.3 U	1.6	5.5
RD-19	RD-19_081910_01	Eu-155	Dissolved	5.45 U	8.2	13.8	SMRD-019-GW081910	Eu-155	Filtered	0.7 U	1.3	4.2
RD-19	RD-19_081910_01	Eu-155	Particulate	0.726 U	4.7	8.04	SMRD-019-GW081910	Eu-155	Suspended	-0.24 U	0.34	1.1
RD-19	RD-19_081910_01	gross_alpha	Dissolved	20.5	5.6	5.51	SMRD-019-GW081910	gross_alpha	Filtered	29.1	1.9	0.4
RD-19	RD-19_081910_01	gross_alpha	Particulate	0.081 U	0.7	1.48	SMRD-019-GW081910	gross_alpha	Suspended	0.47	0.16	0.41
RD-19	RD-19_081910_01	gross_beta	Dissolved	18	4.4	5.87	SMRD-019-GW081910	gross_beta	Filtered	16.8	2.5	6.1
RD-19	RD-19_081910_01	gross_beta	Particulate	1.84 U	3.6	6.18	SMRD-019-GW081910	gross_beta	Suspended	0.99	0.23	0.64
RD-19	RD-19_081910_01	K-40	Dissolved	7.96 U	40	68.9	SMRD-019-GW081910	K-40	Filtered	-11.5 U	9.4	21
RD-19	RD-19_081910_01	K-40	Particulate	-14.9 U	36	65	SMRD-019-GW081910	K-40	Suspended	-4.4 U	4.1	12
RD-19	RD-19_081910_01	Na-22	Dissolved	-0.459 U	2	3.82	SMRD-019-GW081910	Na-22	Filtered	-0.16 U	0.41	1.4
RD-19	RD-19_081910_01	Na-22	Particulate	-1.05 U	1.8	3.45	SMRD-019-GW081910	Na-22	Suspended	0.23 U	0.2	0.69
RD-19	RD-19_081910_01	Sr-90	Dissolved	-0.095 U	0.28	0.57	SMRD-019-GW081910	Sr-90	Filtered	0.01 U	0.071	0.25
RD-19	RD-19_081910_01	Sr-90	Particulate	0.111 U	0.3	0.57	SMRD-019-GW081910	Sr-90	Suspended	-0.053 U	0.046	0.17
RD-19	RD-19_081910_01	H-3	Total	9.53 U	95	161	SMRD-019-GW081910	H-3	Filtered	-43 U	42	150
RD-19	RD-19_081910_01	U-233/234	Dissolved	13.3	0.54	0.095	SMRD-019-GW081910	U-233/234	Filtered	14.1	0.66	0.04
RD-19	RD-19_081910_01	U-233/234	Particulate	0.041 U	0.081	0.138	SMRD-019-GW081910	U-233/234	Suspended	0.028	0.014	0.027
RD-19	RD-19_081910_01	U-235/236	Dissolved	1.05	0.13	0.048	SMRD-019-GW081910	U-235/236	Filtered	0.719	0.083	0.049
RD-19	RD-19_081910_01	U-235/236	Particulate	0 U	0.033	0.091	SMRD-019-GW081910	U-235/236	Suspended	-0.0021 U	0.0066	0.028
RD-19	RD-19_081910_01	U-238	Dissolved	12.2	0.51	0.09	SMRD-019-GW081910	U-238	Filtered	13.3	0.63	0.04
RD-19	RD-19_081910_01	U-238	Particulate	0 U	0.041	0.084	SMRD-019-GW081910	U-238	Suspended	0.027	0.013	0.023
RD-33A	RD-33A_081810_01A	Sb-125	Dissolved	-3.83 U	4.6	8	SMRD-33A-GW081810	Sb-125	Filtered	0.8 U	4.7	16
RD-33A	RD-33A_081810_01A	Sb-125	Particulate	-0.196 U	3.1	5.38	SMRD-33A-GW081810	Sb-125	Suspended	0.8 U	1.7	5.7

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Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33A	RD-33A_081810_01A	Cs-134	Dissolved	0.021 U	2.1	3.68	SMRD-33A-GW081810	Cs-134	Filtered	0.04 U	0.48	1.6
RD-33A	RD-33A_081810_01A	Cs-134	Particulate	-1 U	2.1	3.77	SMRD-33A-GW081810	Cs-134	Suspended	-0.17 U	0.22	0.75
RD-33A	RD-33A_081810_01A	Cs-137	Dissolved	-1.47 U	2	3.49	SMRD-33A-GW081810	Cs-137	Filtered	-0.31 U	0.46	1.6
RD-33A	RD-33A_081810_01A	Cs-137	Particulate	1.96 U	2.5	4.26	SMRD-33A-GW081810	Cs-137	Suspended	0.14 U	0.18	0.62
RD-33A	RD-33A_081810_01A	Co-60	Dissolved	-0.291 U	1.4	2.57	SMRD-33A-GW081810	Co-60	Filtered	0.66	0.43	1.4
RD-33A	RD-33A_081810_01A	Co-60	Particulate	-0.351 U	2	3.59	SMRD-33A-GW081810	Co-60	Suspended	0 U	0.3	1
RD-33A	RD-33A_081810_01A	Eu-152	Dissolved	-3.9 U	5.6	9.7	SMRD-33A-GW081810	Eu-152	Filtered	0.2 U	1.2	4.1
RD-33A	RD-33A_081810_01A	Eu-152	Particulate	1.41 U	4.7	8.12	SMRD-33A-GW081810	Eu-152	Suspended	-0.16 U	0.51	1.7
RD-33A	RD-33A_081810_01A	Eu-154	Dissolved	0.214 U	3.2	5.78	SMRD-33A-GW081810	Eu-154	Filtered	-0.02 U	3.5	12
RD-33A	RD-33A_081810_01A	Eu-154	Particulate	2.24 U	4.7	8.12	SMRD-33A-GW081810	Eu-154	Suspended	-1.2 U	1.7	5.9
RD-33A	RD-33A_081810_01A	Eu-155	Dissolved	0.135 U	3.8	6.55	SMRD-33A-GW081810	Eu-155	Filtered	1.5 U	1.2	4
RD-33A	RD-33A_081810_01A	Eu-155	Particulate	0.444 U	4.9	8.29	SMRD-33A-GW081810	Eu-155	Suspended	-0.15 U	0.34	1.1
RD-33A	RD-33A_081810_01A	gross_beta	Dissolved	7.32	1.1	1.25	SMRD-33A-GW081810	gross_beta	Filtered	4.64	0.74	1.8
RD-33A	RD-33A_081810_01A	gross_beta	Particulate	0.504 U	1	1.76	SMRD-33A-GW081810	gross_beta	Suspended	0.33 U	0.2	0.67
RD-33A	RD-33A_081810_01A	K-40	Dissolved	18.7 U	27	46	SMRD-33A-GW081810	K-40	Filtered	13.7	7	19
RD-33A	RD-33A_081810_01A	K-40	Particulate	4.54 U	6.9	51.4	SMRD-33A-GW081810	K-40	Suspended	2.2 U	3	11
RD-33A	RD-33A_081810_01A	Na-22	Dissolved	0.073 U	1.1	1.97	SMRD-33A-GW081810	Na-22	Filtered	0.22 U	0.37	1.3
RD-33A	RD-33A_081810_01A	Na-22	Particulate	0.765 U	1.6	2.77	SMRD-33A-GW081810	Na-22	Suspended	-0.13 U	0.22	0.74
RD-33A	RD-33A_081810_01A	Sr-90	Dissolved	-0.043 U	0.36	0.652	SMRD-33A-GW081810	Sr-90	Filtered	-0.03 U	0.067	0.24
RD-33A	RD-33A_081810_01A	Sr-90	Particulate	-0.119 U	0.28	0.571	SMRD-33A-GW081810	Sr-90	Suspended	-0.005 U	0.054	0.19
RD-33A	RD-33A_081810_01A	H-3	Total	64.8 U	310	121	SMRD-33A-GW081810	H-3	Filtered	30 U	43	150
RD-33A	RD-33A_081810_01A	U-233/234	Dissolved	1.79	0.22	0.082	SMRD-33A-GW081810	U-233/234	Filtered	1.61	0.11	0.07
RD-33A	RD-33A_081810_01A	U-233/234	Particulate	0 U	0.023	0.07	SMRD-33A-GW081810	U-233/234	Suspended	0.004 U	0.011	0.034
RD-33A	RD-33A_081810_01A	U-235/236	Dissolved	0.059 J	0.044	0.056	SMRD-33A-GW081810	U-235/236	Filtered	0.031	0.017	0.048
RD-33A	RD-33A_081810_01A	U-235/236	Particulate	0 U	0.014	0.053	SMRD-33A-GW081810	U-235/236	Suspended	-0.0069 U	0.009	0.042
RD-33A	RD-33A_081810_01A	U-238	Dissolved	1.02	0.16	0.067	SMRD-33A-GW081810	U-238	Filtered	1.17	0.091	0.047
RD-33A	RD-33A_081810_01A	U-238	Particulate	0.023 U	0.023	0.044	SMRD-33A-GW081810	U-238	Suspended	0.0036 U	0.0096	0.03
RD-33B	RD-33B_090210_01	Sb-125	Dissolved	-0.013 U	2.7	4.79	SMRD-33B-GW090210	Sb-125	Filtered	-2.5 U	4.1	14
RD-33B	RD-33B_090210_01	Sb-125	Particulate	4.5 U	5.6	9.37	SMRD-33B-GW090210	Sb-125	Suspended	1.5 U	1.3	4.3
RD-33B	RD-33B_090210_01	Cs-134	Dissolved	0.648 U	0.82	1.39	SMRD-33B-GW090210	Cs-134	Filtered	0.55 U	0.43	1.4
RD-33B	RD-33B_090210_01	Cs-134	Particulate	2.24 U	3	5.12	SMRD-33B-GW090210	Cs-134	Suspended	0.006 U	0.14	0.49

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33B	RD-33B_090210_01	Cs-137	Dissolved	-0.236 U	1.1	1.9	SMRD-33B-GW090210	Cs-137	Filtered	0.17 U	0.46	1.6
RD-33B	RD-33B_090210_01	Cs-137	Particulate	1.55 U	2.6	4.38	SMRD-33B-GW090210	Cs-137	Suspended	-0.18 U	0.2	0.66
RD-33B	RD-33B_090210_01	Co-60	Dissolved	-0.207 U	1	1.86	SMRD-33B-GW090210	Co-60	Filtered	-0.23 U	0.45	1.6
RD-33B	RD-33B_090210_01	Co-60	Particulate	0.943 U	2.6	4.5	SMRD-33B-GW090210	Co-60	Suspended	-0.0001 U	0.18	0.66
RD-33B	RD-33B_090210_01	Eu-152	Dissolved	-1.6 U	2.4	5.34	SMRD-33B-GW090210	Eu-152	Filtered	0.02 U	0.84	2.9
RD-33B	RD-33B_090210_01	Eu-152	Particulate	1.54 U	2.8	7.84	SMRD-33B-GW090210	Eu-152	Suspended	0.31 U	0.42	1.4
RD-33B	RD-33B_090210_01	Eu-154	Dissolved	-0.984 U	2.2	4.32	SMRD-33B-GW090210	Eu-154	Filtered	0.1 U	3.4	12
RD-33B	RD-33B_090210_01	Eu-154	Particulate	0.296 U	3.7	6.82	SMRD-33B-GW090210	Eu-154	Suspended	-1 U	1.6	5.4
RD-33B	RD-33B_090210_01	Eu-155	Dissolved	2.4 U	3.2	5.33	SMRD-33B-GW090210	Eu-155	Filtered	0.44 U	0.87	2.9
RD-33B	RD-33B_090210_01	Eu-155	Particulate	-0.223 U	3.9	6.71	SMRD-33B-GW090210	Eu-155	Suspended	0.24 U	0.3	1
RD-33B	RD-33B_090210_01	gross_alpha	Dissolved	1.64 J	1	1.45	SMRD-33B-GW090210	gross_alpha	Filtered	3.64	0.41	0.48
RD-33B	RD-33B_090210_01	gross_alpha	Particulate	0.764 J	0.51	0.613	SMRD-33B-GW090210	gross_alpha	Suspended	1.37	0.29	0.64
RD-33B	RD-33B_090210_01	gross_beta	Dissolved	4.56	1.9	3.03	SMRD-33B-GW090210	gross_beta	Filtered	7.03	0.93	2.2
RD-33B	RD-33B_090210_01	gross_beta	Particulate	0.507 U	1.2	2	SMRD-33B-GW090210	gross_beta	Suspended	0.3 U	0.23	0.77
RD-33B	RD-33B_090210_01	K-40	Dissolved	0.275 U	13	23	SMRD-33B-GW090210	K-40	Filtered	-23 U	35	26
RD-33B	RD-33B_090210_01	K-40	Particulate	-13.1 U	24	44	SMRD-33B-GW090210	K-40	Suspended	3.7 U	2.5	8.8
RD-33B	RD-33B_090210_01	Na-22	Dissolved	-0.34 U	0.78	1.5	SMRD-33B-GW090210	Na-22	Filtered	0.03 U	0.45	1.6
RD-33B	RD-33B_090210_01	Na-22	Particulate	0.102 U	1.3	2.36	SMRD-33B-GW090210	Na-22	Suspended	0.03 U	0.2	0.72
RD-33B	RD-33B_090210_01	Sr-90	Dissolved	0.128 U	0.28	0.521	SMRD-33B-GW090210	Sr-90	Filtered	-0.041 U	0.058	0.21
RD-33B	RD-33B_090210_01	Sr-90	Particulate	-0.222 U	0.24	0.511	SMRD-33B-GW090210	Sr-90	Suspended	0.048 U	0.05	0.17
RD-33B	RD-33B_090210_01	H-3	Total	90.7 U	95	156	SMRD-33B-GW090210	H-3	Filtered	-32 U	41	140
RD-33B	RD-33B_090210_01	U-233/234	Dissolved	-0.024 U	0.047	0.121	SMRD-33B-GW090210	U-233/234	Filtered	0.214	0.034	0.029
RD-33B	RD-33B_090210_01	U-233/234	Particulate	0.014 U	0.042	0.077	SMRD-33B-GW090210	U-233/234	Suspended	-0.003 U	0.013	0.045
RD-33B	RD-33B_090210_01	U-235/236	Dissolved	-0.01 U	0.057	0.117	SMRD-33B-GW090210	U-235/236	Filtered	0.0037 U	0.0063	0.03
RD-33B	RD-33B_090210_01	U-235/236	Particulate	0 U	0.017	0.064	SMRD-33B-GW090210	U-235/236	Suspended	0.0039 U	0.0074	0.032
RD-33B	RD-33B_090210_01	U-238	Dissolved	-0.008 U	0.032	0.087	SMRD-33B-GW090210	U-238	Filtered	0.101	0.023	0.013
RD-33B	RD-33B_090210_01	U-238	Particulate	0.007 U	0.014	0.053	SMRD-33B-GW090210	U-238	Suspended	-0.0047 U	0.0094	0.037
RD-33C	RD-33C_090310_01	Sb-125	Dissolved	-3.52 U	3.9	6.96	SMRD-033C-GW090310	Sb-125	Filtered	-1.7 U	4.3	15
RD-33C	RD-33C_090310_01	Sb-125	Particulate	2.52 U	4.4	7.54	SMRD-033C-GW090310	Sb-125	Suspended	1.7 U	1.9	6.3
RD-33C	RD-33C_090310_01	Cs-134	Dissolved	-0.215 U	1.1	1.96	SMRD-033C-GW090310	Cs-134	Filtered	0.71 SK	0.4	1.3
RD-33C	RD-33C_090310_01	Cs-134	Particulate	0.479 U	1.4	2.52	SMRD-033C-GW090310	Cs-134	Suspended	-0.02 U	0.36	1.2

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33C	RD-33C_090310_01	Cs-137	Dissolved	-0.697 U	1.5	2.74	SMRD-033C-GW090310	Cs-137	Filtered	0.28 U	0.43	1.5
RD-33C	RD-33C_090310_01	Cs-137	Particulate	-0.562 U	1.5	2.64	SMRD-033C-GW090310	Cs-137	Suspended	0.02 U	0.21	0.73
RD-33C	RD-33C_090310_01	Co-60	Dissolved	1.2 U	2	3.4	SMRD-033C-GW090310	Co-60	Filtered	0.51 U	0.47	1.6
RD-33C	RD-33C_090310_01	Co-60	Particulate	0.158 U	1.5	2.66	SMRD-033C-GW090310	Co-60	Suspended	0.17 U	0.23	0.8
RD-33C	RD-33C_090310_01	Eu-152	Dissolved	0.246 U	1.1	4.79	SMRD-033C-GW090310	Eu-152	Filtered	0.6 U	1.1	3.7
RD-33C	RD-33C_090310_01	Eu-152	Particulate	1.31 U	1.6	4.25	SMRD-033C-GW090310	Eu-152	Suspended	0.74 U	0.56	1.8
RD-33C	RD-33C_090310_01	Eu-154	Dissolved	0.535 U	2.4	4.36	SMRD-033C-GW090310	Eu-154	Filtered	-0.8 U	3.2	11
RD-33C	RD-33C_090310_01	Eu-154	Particulate	0.921 U	2.5	4.55	SMRD-033C-GW090310	Eu-154	Suspended	-0.04 U	1.5	5.3
RD-33C	RD-33C_090310_01	Eu-155	Dissolved	3.48 U	4.2	6.98	SMRD-033C-GW090310	Eu-155	Filtered	-1.4 U	1	3.4
RD-33C	RD-33C_090310_01	Eu-155	Particulate	-2.55 U	3.9	6.82	SMRD-033C-GW090310	Eu-155	Suspended	-0.02 U	0.38	1.3
RD-33C	RD-33C_090310_01	gross_alpha	Dissolved	4.29	1.9	1.91	SMRD-033C-GW090310	gross_alpha	Filtered	4.81	0.5	0.57
RD-33C	RD-33C_090310_01	gross_alpha	Particulate	0.455 U	0.63	1.02	SMRD-033C-GW090310	gross_alpha	Suspended	1.8	0.32	0.61
RD-33C	RD-33C_090310_01	gross_beta	Dissolved	4.8	1.9	2.79	SMRD-033C-GW090310	gross_beta	Filtered	4.63	0.54	1.1
RD-33C	RD-33C_090310_01	gross_beta	Particulate	-0.893 U	1.5	2.67	SMRD-033C-GW090310	gross_beta	Suspended	0.63	0.25	0.76
RD-33C	RD-33C_090310_01	K-40	Dissolved	1.3 U	17	29.6	SMRD-033C-GW090310	K-40	Filtered	-0.7 U	5	22
RD-33C	RD-33C_090310_01	K-40	Particulate	-9.33 U	18	32.7	SMRD-033C-GW090310	K-40	Suspended	1.3 U	3	10
RD-33C	RD-33C_090310_01	Na-22	Dissolved	0.185 U	0.83	1.51	SMRD-033C-GW090310	Na-22	Filtered	0.43 U	0.48	1.7
RD-33C	RD-33C_090310_01	Na-22	Particulate	0.319 U	0.87	1.57	SMRD-033C-GW090310	Na-22	Suspended	-0.09 U	0.26	0.91
RD-33C	RD-33C_090310_01	Sr-90	Dissolved	-0.052 U	0.2	0.407	SMRD-033C-GW090310	Sr-90	Filtered	-0.005 U	0.033	0.11
RD-33C	RD-33C_090310_01	Sr-90	Particulate	-0.135 U	0.21	0.435	SMRD-033C-GW090310	Sr-90	Suspended	-0.022 U	0.025	0.092
RD-33C	RD-33C_090310_01	H-3	Total	-59.2 U	84	145	SMRD-033C-GW090310	H-3	Filtered	-16 U	38	130
RD-33C	RD-33C_090310_01	U-233/234	Dissolved	0.152 U	0.064	0.061	SMRD-033C-GW090310	U-233/234	Filtered	0.223	0.024	0.015
RD-33C	RD-33C_090310_01	U-233/234	Particulate	-0.006 U	0.022	0.068	SMRD-033C-GW090310	U-233/234	Suspended	-0.0011 U	0.0052	0.014
RD-33C	RD-33C_090310_01	U-235/236	Dissolved	-0.008 U	0.015	0.059	SMRD-033C-GW090310	U-235/236	Filtered	0.0099	0.0049	0.0067
RD-33C	RD-33C_090310_01	U-235/236	Particulate	0.007 U	0.013	0.051	SMRD-033C-GW090310	U-235/236	Suspended	0.0049 U	0.0035	0.0066
RD-33C	RD-33C_090310_01	U-238	Dissolved	0.044 U	0.038	0.061	SMRD-033C-GW090310	U-238	Filtered	0.11	0.017	0.026
RD-33C	RD-33C_090310_01	U-238	Particulate	-0.006 U	0.011	0.053	SMRD-033C-GW090310	U-238	Suspended	-0.0022 U	0.0044	0.014
RD-34A	RD-34A_082010_01	Sb-125	Dissolved	0.877 U	3.1	5.3	SMRD-034A-GW082010	Sb-125	Filtered	3.2 U	3.6	12
RD-34A	RD-34A_082010_01	Sb-125	Particulate	4.31 U	4.5	7.48	SMRD-034A-GW082010	Sb-125	Suspended	1.4 U	1.8	6.2
RD-34A	RD-34A_082010_01	Cs-134	Dissolved	0.89 U	1.6	2.7	SMRD-034A-GW082010	Cs-134	Filtered	-0.64 U	0.51	1.7
RD-34A	RD-34A_082010_01	Cs-134	Particulate	-0.503 U	2	3.47	SMRD-034A-GW082010	Cs-134	Suspended	0.07 U	0.2	0.69

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34A	RD-34A_082010_01	Cs-137	Dissolved	0.049 U	1.4	2.4	SMRD-034A-GW082010	Cs-137	Filtered	0.31 U	0.38	1.3
RD-34A	RD-34A_082010_01	Cs-137	Particulate	-0.702 U	2.3	3.98	SMRD-034A-GW082010	Cs-137	Suspended	-0.006 U	0.16	0.57
RD-34A	RD-34A_082010_01	Co-60	Dissolved	0.127 U	2.1	3.72	SMRD-034A-GW082010	Co-60	Filtered	-0.02 U	0.45	1.6
RD-34A	RD-34A_082010_01	Co-60	Particulate	0.936 U	1.6	2.77	SMRD-034A-GW082010	Co-60	Suspended	-0.05 U	0.26	0.92
RD-34A	RD-34A_082010_01	Eu-152	Dissolved	0.246 U	2.3	5.37	SMRD-034A-GW082010	Eu-152	Filtered	0.8 U	0.98	3.3
RD-34A	RD-34A_082010_01	Eu-152	Particulate	2.57 U	5.1	8.7	SMRD-034A-GW082010	Eu-152	Suspended	-0.31 U	0.48	1.6
RD-34A	RD-34A_082010_01	Eu-154	Dissolved	-1.63 U	2.8	5.41	SMRD-034A-GW082010	Eu-154	Filtered	0.8 U	3.5	12
RD-34A	RD-34A_082010_01	Eu-154	Particulate	1.31 U	3.3	5.8	SMRD-034A-GW082010	Eu-154	Suspended	2.2 U	1.6	5.2
RD-34A	RD-34A_082010_01	Eu-155	Dissolved	0.327 U	3.3	5.58	SMRD-034A-GW082010	Eu-155	Filtered	-1.69 U	0.92	3
RD-34A	RD-34A_082010_01	Eu-155	Particulate	1.87 U	4	6.76	SMRD-034A-GW082010	Eu-155	Suspended	0.29 U	0.36	1.2
RD-34A	RD-34A_082010_01	gross_alpha	Dissolved	12.4	2.9	2.18	SMRD-034A-GW082010	gross_alpha	Filtered	19.4	1.1	0.4
RD-34A	RD-34A_082010_01	gross_alpha	Particulate	20.8	2.4	0.768	SMRD-034A-GW082010	gross_alpha	Suspended	0.4 U	0.27	0.89
RD-34A	RD-34A_082010_01	gross_beta	Dissolved	17.3	2.6	3.43	SMRD-034A-GW082010	gross_beta	Filtered	14.3	1.6	3.2
RD-34A	RD-34A_082010_01	gross_beta	Particulate	19.2	2.9	3.96	SMRD-034A-GW082010	gross_beta	Suspended	2.03	0.32	0.79
RD-34A	RD-34A_082010_01	K-40	Dissolved	6.07 U	18	31.5	SMRD-034A-GW082010	K-40	Filtered	7.9	4.9	16
RD-34A	RD-34A_082010_01	K-40	Particulate	-12.2 U	28	49.9	SMRD-034A-GW082010	K-40	Suspended	0.6 U	3.7	12
RD-34A	RD-34A_082010_01	Na-22	Dissolved	-0.567 U	0.97	1.88	SMRD-034A-GW082010	Na-22	Filtered	-0.34 U	0.53	1.8
RD-34A	RD-34A_082010_01	Na-22	Particulate	0.456 U	1.1	2.02	SMRD-034A-GW082010	Na-22	Suspended	-0.13 U	0.25	0.85
RD-34A	RD-34A_082010_01	Sr-90	Particulate	-0.078 U	0.38	0.748	SMRD-034A-GW082010	Sr-90	Suspended	0.002 U	0.021	0.072
RD-34A	RD-34A_082010_01	H-3	Total	992	130	180	SMRD-034A-GW082010	H-3	Filtered	966	65	130
RD-34A	RD-34A_082010_01	U-233/234	Dissolved	9.59	0.43	0.073	SMRD-034A-GW082010	U-233/234	Filtered	10.8	0.52	0.04
RD-34A	RD-34A_082010_01	U-233/234	Particulate	0.109 J	0.05	0.052	SMRD-034A-GW082010	U-233/234	Suspended	0.016	0.014	0.039
RD-34A	RD-34A_082010_01	U-235/236	Dissolved	0.546 J	0.089	0.035	SMRD-034A-GW082010	U-235/236	Filtered	0.578	0.07	0.038
RD-34A	RD-34A_082010_01	U-235/236	Particulate	0.02 U	0.02	0.039	SMRD-034A-GW082010	U-235/236	Suspended	-0.0023 U	0.0023	0.031
RD-34A	RD-34A_082010_01	U-238	Dissolved	9.78	0.44	0.067	SMRD-034A-GW082010	U-238	Filtered	10.9	0.52	0.04
RD-34A	RD-34A_082010_01	U-238	Particulate	0.1 J	0.042	0.032	SMRD-034A-GW082010	U-238	Suspended	0.03	0.014	0.025
RD-34B	RD-34B_082010_01	Sb-125	Dissolved	-0.78 U	4	6.97	SMRD-034B-GW082010	Sb-125	Filtered	-0.5 U	4.6	16
RD-34B	RD-34B_082010_01	Sb-125	Particulate	2.13 U	2.8	4.77	SMRD-034B-GW082010	Sb-125	Suspended	-0.7 U	1.8	6
RD-34B	RD-34B_082010_01	Cs-134	Dissolved	0.143 U	1.3	2.25	SMRD-034B-GW082010	Cs-134	Filtered	0.08 U	0.49	1.7
RD-34B	RD-34B_082010_01	Cs-134	Particulate	0.168 U	1.3	2.34	SMRD-034B-GW082010	Cs-134	Suspended	-0.32 U	0.24	0.79
RD-34B	RD-34B_082010_01	Cs-137	Dissolved	-0.694 U	1.5	2.7	SMRD-034B-GW082010	Cs-137	Filtered	-0.01 U	0.4	1.4

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Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34B	RD-34B_082010_01	Cs-137	Particulate	-0.548 U	1.4	2.59	SMRD-034B-GW082010	Cs-137	Suspended	-0.31 U	0.53	0.8
RD-34B	RD-34B_082010_01	Co-60	Dissolved	0.666 U	1.4	2.38	SMRD-034B-GW082010	Co-60	Filtered	0.41 U	0.42	1.4
RD-34B	RD-34B_082010_01	Co-60	Particulate	-0.401 U	1.3	2.44	SMRD-034B-GW082010	Co-60	Suspended	0.25 U	0.19	0.63
RD-34B	RD-34B_082010_01	Eu-152	Dissolved	-4.19 U	4.9	8.54	SMRD-034B-GW082010	Eu-152	Filtered	-2.3 U	1.4	4.5
RD-34B	RD-34B_082010_01	Eu-152	Particulate	0.622 U	2	4.01	SMRD-034B-GW082010	Eu-152	Suspended	-0.53 U	0.51	1.7
RD-34B	RD-34B_082010_01	Eu-154	Dissolved	-0.587 U	2.5	4.66	SMRD-034B-GW082010	Eu-154	Filtered	0 U	3.6	13
RD-34B	RD-34B_082010_01	Eu-154	Particulate	2.1 U	2.6	4.44	SMRD-034B-GW082010	Eu-154	Suspended	-0.9 U	1.6	5.5
RD-34B	RD-34B_082010_01	Eu-155	Dissolved	0.124 U	4.3	7.38	SMRD-034B-GW082010	Eu-155	Filtered	0.88 U	0.94	3.2
RD-34B	RD-34B_082010_01	Eu-155	Particulate	-1.79 U	3.4	6.01	SMRD-034B-GW082010	Eu-155	Suspended	0.44 U	0.36	1.2
RD-34B	RD-34B_082010_01	gross_alpha	Dissolved	3.3 U	2.1	3.31	SMRD-034B-GW082010	gross_alpha	Filtered	4.73	0.43	0.46
RD-34B	RD-34B_082010_01	gross_alpha	Particulate	0.14 U	0.89	1.64	SMRD-034B-GW082010	gross_alpha	Suspended	1.12	0.38	1.1
RD-34B	RD-34B_082010_01	gross_beta	Dissolved	5.67	2.6	3.87	SMRD-034B-GW082010	gross_beta	Filtered	6.51	0.8	1.7
RD-34B	RD-34B_082010_01	gross_beta	Particulate	-0.115 U	2.2	3.77	SMRD-034B-GW082010	gross_beta	Suspended	0.28 U	0.23	0.77
RD-34B	RD-34B_082010_01	K-40	Dissolved	-5.56 U	23	39.7	SMRD-034B-GW082010	K-40	Filtered	-20 U	37	27
RD-34B	RD-34B_082010_01	K-40	Particulate	6.49 U	17	29.2	SMRD-034B-GW082010	K-40	Suspended	-0.5 U	2.1	8.7
RD-34B	RD-34B_082010_01	Na-22	Dissolved	-0.204 U	0.87	1.62	SMRD-034B-GW082010	Na-22	Filtered	-0.0003 U	0.49	1.8
RD-34B	RD-34B_082010_01	Na-22	Particulate	0.728 U	0.91	1.54	SMRD-034B-GW082010	Na-22	Suspended	0.19 U	0.2	0.67
RD-34B	RD-34B_082010_01	Sr-90	Particulate	0.007 U	0.36	0.709	SMRD-034B-GW082010	Sr-90	Suspended	0.014 U	0.023	0.076
RD-34B	RD-34B_082010_01	H-3	Total	50.5 U	110	184	SMRD-034B-GW082010	H-3	Filtered	191	44	140
RD-34B	RD-34B_082010_01	U-233/234	Dissolved	1.19	0.14	0.051	SMRD-034B-GW082010	U-233/234	Filtered	1.75	0.12	0.03
RD-34B	RD-34B_082010_01	U-233/234	Particulate	0.023 U	0.035	0.071	SMRD-034B-GW082010	U-233/234	Suspended	0.031	0.015	0.036
RD-34B	RD-34B_082010_01	U-235/236	Dissolved	0.059 J	0.037	0.035	SMRD-034B-GW082010	U-235/236	Filtered	0.108	0.026	0.031
RD-34B	RD-34B_082010_01	U-235/236	Particulate	0	0.028	0.077	SMRD-034B-GW082010	U-235/236	Suspended	0.0056 U	0.0056	0.015
RD-34B	RD-34B_082010_01	U-238	Dissolved	0.964 J	0.12	0.046	SMRD-034B-GW082010	U-238	Filtered	1.51	0.11	0.03
RD-34B	RD-34B_082010_01	U-238	Particulate	0.006 U	0.023	0.064	SMRD-034B-GW082010	U-238	Suspended	0.012	0.01	0.027
RD-34C	RD-34C_083010_01	Sb-125	Dissolved	-2.52 U	3.3	6	SMRD-34C-GW083010	Sb-125	Filtered	-1.2 U	4.1	14
RD-34C	RD-34C_083010_01	Sb-125	Particulate	1.31 U	3.2	5.43	SMRD-34C-GW083010	Sb-125	Suspended	0.8 U	1.7	5.8
RD-34C	RD-34C_083010_01	Cs-134	Dissolved	0.918 U	2	2.76	SMRD-34C-GW083010	Cs-134	Filtered	-0.23 U	0.47	1.6
RD-34C	RD-34C_083010_01	Cs-134	Particulate	-0.405 U	1.4	2.56	SMRD-34C-GW083010	Cs-134	Suspended	0.36 U	0.26	0.86
RD-34C	RD-34C_083010_01	Cs-137	Dissolved	-1.56 U	1.6	2.9	SMRD-34C-GW083010	Cs-137	Filtered	0.36 U	0.42	1.4
RD-34C	RD-34C_083010_01	Cs-137	Particulate	0.023 U	1.3	2.34	SMRD-34C-GW083010	Cs-137	Suspended	0.13 U	0.21	0.71

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34C	RD-34C_083010_01	Co-60	Dissolved	-0.433 U	1.9	3.48	SMRD-34C-GW083010	Co-60	Filtered	0.002 U	0.43	1.6
RD-34C	RD-34C_083010_01	Co-60	Particulate	-0.327 U	1.6	2.96	SMRD-34C-GW083010	Co-60	Suspended	0.02 U	0.23	0.82
RD-34C	RD-34C_083010_01	Eu-152	Dissolved	-1.48 U	7.1	12.2	SMRD-34C-GW083010	Eu-152	Filtered	0.8 U	1.1	3.7
RD-34C	RD-34C_083010_01	Eu-152	Particulate	-0.634 U	4.2	5.24	SMRD-34C-GW083010	Eu-152	Suspended	0.52 U	0.51	1.7
RD-34C	RD-34C_083010_01	Eu-154	Dissolved	2.47 U	3.7	6.41	SMRD-34C-GW083010	Eu-154	Filtered	3.4 U	3.2	11
RD-34C	RD-34C_083010_01	Eu-154	Particulate	-0.16 U	2.6	4.82	SMRD-34C-GW083010	Eu-154	Suspended	0.2 U	1.1	3.8
RD-34C	RD-34C_083010_01	Eu-155	Dissolved	-0.151 U	4.4	7.54	SMRD-34C-GW083010	Eu-155	Filtered	0.44 U	0.96	3.3
RD-34C	RD-34C_083010_01	Eu-155	Particulate	0.606 U	2.8	4.85	SMRD-34C-GW083010	Eu-155	Suspended	0.32 U	0.37	1.2
RD-34C	RD-34C_083010_01	gross_alpha	Dissolved	2.25 J	1.2	1.27	SMRD-34C-GW083010	gross_alpha	Filtered	1.23	0.23	0.47
RD-34C	RD-34C_083010_01	gross_alpha	Particulate	-0.102 U	0.36	0.973	SMRD-34C-GW083010	gross_alpha	Suspended	0.25	0.13	0.4
RD-34C	RD-34C_083010_01	gross_beta	Dissolved	2.76 U	2.2	3.44	SMRD-34C-GW083010	gross_beta	Filtered	4.81	0.82	2.1
RD-34C	RD-34C_083010_01	gross_beta	Particulate	-0.913 U	1.4	2.53	SMRD-34C-GW083010	gross_beta	Suspended	-0.31 U	0.19	0.72
RD-34C	RD-34C_083010_01	K-40	Dissolved	17.9 U	28	47.8	SMRD-34C-GW083010	K-40	Filtered	-10 U	13	22
RD-34C	RD-34C_083010_01	K-40	Particulate	-7.25 U	14	25.3	SMRD-34C-GW083010	K-40	Suspended	8.9	2.8	9.1
RD-34C	RD-34C_083010_01	Na-22	Dissolved	0.855 U	1.3	2.22	SMRD-34C-GW083010	Na-22	Filtered	0.06 U	0.42	1.5
RD-34C	RD-34C_083010_01	Na-22	Particulate	-0.056 U	0.89	1.67	SMRD-34C-GW083010	Na-22	Suspended	0.06 U	0.19	0.67
RD-34C	RD-34C_083010_01	Sr-90	Dissolved	-0.102 U	0.17	0.352	SMRD-34C-GW083010	Sr-90	Filtered	-0.008 U	0.049	0.18
RD-34C	RD-34C_083010_01	Sr-90	Particulate	0.077 U	0.22	0.403	SMRD-34C-GW083010	Sr-90	Suspended	0.017 U	0.041	0.14
RD-34C	RD-34C_083010_01	H-3	Total	9.71 U	92	156	SMRD-34C-GW083010	H-3	Filtered	11 U	40	130
RD-34C	RD-34C_083010_01	U-233/234	Dissolved	0.259 U	0.073	0.075	SMRD-34C-GW083010	U-233/234	Filtered	0.293	0.029	0.02
RD-34C	RD-34C_083010_01	U-233/234	Particulate	0 U	0.031	0.075	SMRD-34C-GW083010	U-233/234	Suspended	0.004 U	0.011	0.037
RD-34C	RD-34C_083010_01	U-235/236	Dissolved	0 U	0.029	0.06	SMRD-34C-GW083010	U-235/236	Filtered	0.008	0.0046	0.0072
RD-34C	RD-34C_083010_01	U-235/236	Particulate	0.009 U	0.019	0.073	SMRD-34C-GW083010	U-235/236	Suspended	0 U	0.0022	0.016
RD-34C	RD-34C_083010_01	U-238	Dissolved	0.061 J	0.041	0.05	SMRD-34C-GW083010	U-238	Filtered	0.043	0.011	0.02
RD-34C	RD-34C_083010_01	U-238	Particulate	-0.008 U	0.016	0.06	SMRD-34C-GW083010	U-238	Suspended	0.017 K	0.012	0.028
RD-50 (Port 2)	RD-50_081810_01A	Sb-125	Dissolved	-0.421 U	3.8	6.64	SMRD-50-GW081810	Sb-125	Filtered	0.3 U	4.6	15
RD-50 (Port 2)	RD-50_081810_01A	Sb-125	Particulate	-2.24 U	2.9	5.4	SMRD-50-GW081810	Sb-125	Suspended	1.1 U	1.7	5.8
RD-50 (Port 2)	RD-50_081810_01A	Cs-134	Dissolved	0.439 U	1.4	2.5	SMRD-50-GW081810	Cs-134	Filtered	-0.06 U	0.62	2.1
RD-50 (Port 2)	RD-50_081810_01A	Cs-134	Particulate	0.604 U	1.8	2.36	SMRD-50-GW081810	Cs-134	Suspended	0.01 U	0.2	0.7
RD-50 (Port 2)	RD-50_081810_01A	Cs-137	Dissolved	0.949 U	1.7	2.87	SMRD-50-GW081810	Cs-137	Filtered	0.48 U	0.38	1.3
RD-50 (Port 2)	RD-50_081810_01A	Cs-137	Particulate	-0.13 U	1.5	2.57	SMRD-50-GW081810	Cs-137	Suspended	-0.05 U	0.22	0.75

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-50 (Port 2)	RD-50_081810_01A	Co-60	Dissolved	1.28 U	2.3	3.86	SMRD-50-GW081810	Co-60	Filtered	0.01 U	0.44	1.6
RD-50 (Port 2)	RD-50_081810_01A	Co-60	Particulate	-0.502 U	1.1	2.06	SMRD-50-GW081810	Co-60	Suspended	-0.004 U	0.21	0.74
RD-50 (Port 2)	RD-50_081810_01A	Eu-152	Dissolved	2.29 U	3.5	5.91	SMRD-50-GW081810	Eu-152	Filtered	-0.2 U	1.3	4.5
RD-50 (Port 2)	RD-50_081810_01A	Eu-152	Particulate	1.2 U	4	6.83	SMRD-50-GW081810	Eu-152	Suspended	0.3 U	0.48	1.6
RD-50 (Port 2)	RD-50_081810_01A	Eu-154	Dissolved	3.52 U	6.5	11.1	SMRD-50-GW081810	Eu-154	Filtered	0.2 U	3.8	13
RD-50 (Port 2)	RD-50_081810_01A	Eu-154	Particulate	-1.89 U	2.4	5.04	SMRD-50-GW081810	Eu-154	Suspended	-1.3 U	1.6	5.4
RD-50 (Port 2)	RD-50_081810_01A	Eu-155	Dissolved	1.75 U	2.6	4.42	SMRD-50-GW081810	Eu-155	Filtered	-0.7 U	1.5	5.1
RD-50 (Port 2)	RD-50_081810_01A	Eu-155	Particulate	-4.04 U	4.7	8.3	SMRD-50-GW081810	Eu-155	Suspended	0.03 U	0.32	1.1
RD-50 (Port 2)	RD-50_081810_01A	gross_alpha	Dissolved	18.8	3.8	2.35	SMRD-50-GW081810	gross_alpha	Filtered	22.3	1.5	0.4
RD-50 (Port 2)	RD-50_081810_01A	gross_alpha	Particulate	0.176 U	0.39	0.69	SMRD-50-GW081810	gross_alpha	Suspended	0.52	0.19	0.5
RD-50 (Port 2)	RD-50_081810_01A	gross_beta	Dissolved	14.6	1.9	2.11	SMRD-50-GW081810	gross_beta	Filtered	10	1.1	2.3
RD-50 (Port 2)	RD-50_081810_01A	gross_beta	Particulate	-0.399 U	1.1	1.99	SMRD-50-GW081810	gross_beta	Suspended	0.5	0.24	0.76
RD-50 (Port 2)	RD-50_081810_01A	K-40	Dissolved	-1.03 U	15	27.5	SMRD-50-GW081810	K-40	Filtered	4.2 U	3.7	17
RD-50 (Port 2)	RD-50_081810_01A	K-40	Particulate	-12.2 U	15	28.5	SMRD-50-GW081810	K-40	Suspended	-0.5 U	3	12
RD-50 (Port 2)	RD-50_081810_01A	Na-22	Dissolved	1.2 U	2.2	3.79	SMRD-50-GW081810	Na-22	Filtered	-0.03 U	0.43	1.5
RD-50 (Port 2)	RD-50_081810_01A	Na-22	Particulate	-0.646 U	0.84	1.72	SMRD-50-GW081810	Na-22	Suspended	0.02 U	0.17	0.6
RD-50 (Port 2)	RD-50_081810_01A	Sr-90	Dissolved	-0.01 U	0.29	0.574	SMRD-50-GW081810	Sr-90	Filtered	0.113 U	0.066	0.22
RD-50 (Port 2)	RD-50_081810_01A	Sr-90	Particulate	0.009 U	0.28	0.559	SMRD-50-GW081810	Sr-90	Suspended	0.044 U	0.057	0.19
RD-50 (Port 2)	RD-50_081810_01A	H-3	Total	-8.9 U	290	119	SMRD-50-GW081810	H-3	Filtered	-2 U	44	150
RD-50 (Port 2)	RD-50_081810_01A	U-233/234	Dissolved	11.1	0.65	0.11	SMRD-50-GW081810	U-233/234	Filtered	13.3	0.62	0.05
RD-50 (Port 2)	RD-50_081810_01A	U-233/234	Particulate	0.006 U	0.034	0.069	SMRD-50-GW081810	U-233/234	Suspended	0.02	0.014	0.029
RD-50 (Port 2)	RD-50_081810_01A	U-235/236	Dissolved	0.547 J	0.12	0.072	SMRD-50-GW081810	U-235/236	Filtered	0.72	0.078	0.055
RD-50 (Port 2)	RD-50_081810_01A	U-235/236	Particulate	0 U	0.014	0.052	SMRD-50-GW081810	U-235/236	Suspended	0.008 U	0.01	0.036
RD-50 (Port 2)	RD-50_081810_01A	U-238	Dissolved	8.45	0.53	0.099	SMRD-50-GW081810	U-238	Filtered	10.6	0.51	0.04
RD-50 (Port 2)	RD-50_081810_01A	U-238	Particulate	0.006 U	0.022	0.054	SMRD-50-GW081810	U-238	Suspended	0.007 U	0.011	0.033
RD-57 (Port 7)	RD-57_081810_01A	Sb-125	Dissolved	-3.46 U	3.5	6.35	SMRD-57-GW081910	Sb-125	Filtered	-0.9 U	4.3	15
RD-57 (Port 7)	RD-57_081810_01A	Sb-125	Particulate	0.888 U	4	6.94	SMRD-57-GW081910	Sb-125	Suspended	1.2 U	1.8	6
RD-57 (Port 7)	RD-57_081810_01A	Cs-134	Dissolved	0.141 U	1.4	2.48	SMRD-57-GW081910	Cs-134	Filtered	-0.29 U	0.5	1.7
RD-57 (Port 7)	RD-57_081810_01A	Cs-134	Particulate	-0.557 U	2.3	4.12	SMRD-57-GW081910	Cs-134	Suspended	0.01 U	0.23	0.8
RD-57 (Port 7)	RD-57_081810_01A	Cs-137	Dissolved	2.67 U	1.7	2.7	SMRD-57-GW081910	Cs-137	Filtered	0.7	0.37	1.2
RD-57 (Port 7)	RD-57_081810_01A	Cs-137	Particulate	0.783 U	2.2	3.83	SMRD-57-GW081910	Cs-137	Suspended	0.09 U	0.2	0.69

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-57 (Port 7)	RD-57_081810_01A	Co-60	Dissolved	-0.107 U	1	1.94	SMRD-57-GW081910	Co-60	Filtered	0.29 U	0.52	1.8
RD-57 (Port 7)	RD-57_081810_01A	Co-60	Particulate	-0.049 U	2	3.75	SMRD-57-GW081910	Co-60	Suspended	0.26 U	0.21	0.72
RD-57 (Port 7)	RD-57_081810_01A	Eu-152	Dissolved	-0.454 U	3	5.41	SMRD-57-GW081910	Eu-152	Filtered	-1.1 U	1.3	4.3
RD-57 (Port 7)	RD-57_081810_01A	Eu-152	Particulate	-1.68 U	6.4	11.2	SMRD-57-GW081910	Eu-152	Suspended	-0.35 U	0.52	1.8
RD-57 (Port 7)	RD-57_081810_01A	Eu-154	Dissolved	0.143 U	2.2	4.11	SMRD-57-GW081910	Eu-154	Filtered	-0.6 U	3.7	13
RD-57 (Port 7)	RD-57_081810_01A	Eu-154	Particulate	2.03 U	5.1	9.06	SMRD-57-GW081910	Eu-154	Suspended	-0.8 U	1.7	5.7
RD-57 (Port 7)	RD-57_081810_01A	Eu-155	Dissolved	0.517 U	3.1	5.34	SMRD-57-GW081910	Eu-155	Filtered	0.3 U	1	3.4
RD-57 (Port 7)	RD-57_081810_01A	Eu-155	Particulate	-1.24 U	5.8	10.1	SMRD-57-GW081910	Eu-155	Suspended	0.05 U	0.36	1.2
RD-57 (Port 7)	RD-57_081810_01A	gross_alpha	Dissolved	8.91	2.4	1.93	SMRD-57-GW081910	gross_alpha	Filtered	8.1	0.6	0.4
RD-57 (Port 7)	RD-57_081810_01A	gross_alpha	Particulate	-0.239 U	0.43	0.983	SMRD-57-GW081910	gross_alpha	Suspended	0 U	0.15	0.62
RD-57 (Port 7)	RD-57_081810_01A	gross_beta	Dissolved	12.1	2.1	2.82	SMRD-57-GW081910	gross_beta	Filtered	8.18	0.8	1.5
RD-57 (Port 7)	RD-57_081810_01A	gross_beta	Particulate	-0.323 U	1.3	2.17	SMRD-57-GW081910	gross_beta	Suspended	0.66	0.26	0.82
RD-57 (Port 7)	RD-57_081810_01A	K-40	Dissolved	-8.26 U	18	33.6	SMRD-57-GW081910	K-40	Filtered	-19 U	31	25
RD-57 (Port 7)	RD-57_081810_01A	K-40	Particulate	-27 U	39	70.3	SMRD-57-GW081910	K-40	Suspended	-3.2 U	3.5	12
RD-57 (Port 7)	RD-57_081810_01A	Na-22	Dissolved	0.049 U	0.74	1.4	SMRD-57-GW081910	Na-22	Filtered	-0.32 U	0.55	1.9
RD-57 (Port 7)	RD-57_081810_01A	Na-22	Particulate	0.692 U	1.7	3.09	SMRD-57-GW081910	Na-22	Suspended	0.01 U	0.25	0.89
RD-57 (Port 7)	RD-57_081810_01A	Sr-90	Particulate	-0.042 U	0.4	0.701	SMRD-57-GW081910	Sr-90	Suspended	-0.024 U	0.019	0.069
RD-57 (Port 7)	RD-57_081810_01A	H-3	Total	33 U	310	118	SMRD-57-GW081910	H-3	Filtered	-15 U	41	140
RD-57 (Port 7)	RD-57_081810_01A	U-233/234	Dissolved	4.42	0.4	0.094	SMRD-57-GW081910	U-233/234	Filtered	5.03	0.26	0.03
RD-57 (Port 7)	RD-57_081810_01A	U-233/234	Particulate	0.021 U	0.064	0.13	SMRD-57-GW081910	U-233/234	Suspended	0.004 U	0.011	0.034
RD-57 (Port 7)	RD-57_081810_01A	U-235/236	Dissolved	0.264 J	0.1	0.065	SMRD-57-GW081910	U-235/236	Filtered	0.203	0.037	0.042
RD-57 (Port 7)	RD-57_081810_01A	U-235/236	Particulate	0 U	0.026	0.098	SMRD-57-GW081910	U-235/236	Suspended	-0.0023 U	0.0023	0.032
RD-57 (Port 7)	RD-57_081810_01A	U-238	Dissolved	3.76	0.36	0.094	SMRD-57-GW081910	U-238	Filtered	3.86	0.21	0.03
RD-57 (Port 7)	RD-57_081810_01A	U-238	Particulate	-0.011 U	0.042	0.102	SMRD-57-GW081910	U-238	Suspended	-0.0044 U	0.0053	0.025
RD-85	RD-85_082610_01	Sb-125	Dissolved	0.484 U	5.2	8.97	SMRD-085-GW081910	Sb-125	Filtered	1.9 U	2.9	9.9
RD-85	RD-85_082610_01	Sb-125	Particulate	-2.83 U	5.4	9.6	SMRD-085-GW081910	Sb-125	Suspended	0.0007 U	1.8	6.1
RD-85	RD-85_082610_01	Cs-134	Dissolved	0.322 U	1.3	2.34	SMRD-085-GW081910	Cs-134	Filtered	-0.02 U	0.44	1.5
RD-85	RD-85_082610_01	Cs-134	Particulate	-1.21 U	1.9	3.6	SMRD-085-GW081910	Cs-134	Suspended	0.02 U	0.37	1.2
RD-85	RD-85_082610_01	Cs-137	Dissolved	0.086 U	1.2	2.01	SMRD-085-GW081910	Cs-137	Filtered	0.04 U	0.46	1.6
RD-85	RD-85_082610_01	Cs-137	Particulate	1.2 U	2.2	3.77	SMRD-085-GW081910	Cs-137	Suspended	0.16 U	0.16	0.52
RD-85	RD-85_082610_01	Co-60	Dissolved	-0.793 U	1	1.99	SMRD-085-GW081910	Co-60	Filtered	-0.19 U	0.48	1.7

Table D.3
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Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-85	RD-85_082610_01	Co-60	Particulate	-1.3 U	1.9	3.77	SMRD-085-GW081910	Co-60	Suspended	0 U	0.37	1.3
RD-85	RD-85_082610_01	Eu-152	Dissolved	-4.41 U	4.7	8.3	SMRD-085-GW081910	Eu-152	Filtered	0.04 U	1.1	3.9
RD-85	RD-85_082610_01	Eu-152	Particulate	-0.121 U	4.9	8.62	SMRD-085-GW081910	Eu-152	Suspended	-0.03 U	0.45	1.6
RD-85	RD-85_082610_01	Eu-154	Dissolved	-1.68 U	2.6	4.92	SMRD-085-GW081910	Eu-154	Filtered	-1.7 U	3.8	13
RD-85	RD-85_082610_01	Eu-154	Particulate	2 U	4.3	7.71	SMRD-085-GW081910	Eu-154	Suspended	0.1 U	1.8	6.2
RD-85	RD-85_082610_01	Eu-155	Dissolved	2.61 U	3.7	6.16	SMRD-085-GW081910	Eu-155	Filtered	0.97 U	0.94	3.1
RD-85	RD-85_082610_01	Eu-155	Particulate	-1.95 U	5.1	8.89	SMRD-085-GW081910	Eu-155	Suspended	-0.27 U	0.39	1.3
RD-85	RD-85_082610_01	gross_alpha	Dissolved	3.77	2.5	3.3	SMRD-085-GW081910	gross_alpha	Filtered	6.7	0.55	0.46
RD-85	RD-85_082610_01	gross_alpha	Particulate	1.38 U	0.94	1.52	SMRD-085-GW081910	gross_alpha	Suspended	4.45	0.48	0.66
RD-85	RD-85_082610_01	gross_beta	Dissolved	6.74	4.1	6.66	SMRD-085-GW081910	gross_beta	Filtered	5.22	0.9	2.2
RD-85	RD-85_082610_01	gross_beta	Particulate	0.136 U	2.5	4.18	SMRD-085-GW081910	gross_beta	Suspended	2.61	0.36	0.79
RD-85	RD-85_082610_01	K-40	Dissolved	15.2 U	21	34.8	SMRD-085-GW081910	K-40	Filtered	3 U	5.9	22
RD-85	RD-85_082610_01	K-40	Particulate	16.8 U	32	54.4	SMRD-085-GW081910	K-40	Suspended	10.8	2.7	8.9
RD-85	RD-85_082610_01	Na-22	Dissolved	-0.583 U	0.89	1.71	SMRD-085-GW081910	Na-22	Filtered	-0.14 U	0.53	1.9
RD-85	RD-85_082610_01	Na-22	Particulate	0.695 U	1.5	2.68	SMRD-085-GW081910	Na-22	Suspended	-0.08 U	0.24	0.85
RD-85	RD-85_082610_01	Sr-90	Particulate	-0.16 U	0.18	0.402	SMRD-085-GW081910	Sr-90	Suspended	-0.024 U	0.019	0.07
RD-85	RD-85_082610_01	H-3	Total	30 U	86	144	SMRD-085-GW081910	H-3	Filtered	54 U	40	130
RD-85	RD-85_082610_01	U-233/234	Dissolved	1.48 U	0.18	0.062	SMRD-085-GW081910	U-233/234	Filtered	2.35	0.15	0.03
RD-85	RD-85_082610_01	U-233/234	Particulate	0.031 U	0.041	0.069	SMRD-085-GW081910	U-233/234	Suspended	0.037	0.017	0.041
RD-85	RD-85_082610_01	U-235/236	Dissolved	0.08	0.049	0.047	SMRD-085-GW081910	U-235/236	Filtered	0.159	0.033	0.017
RD-85	RD-85_082610_01	U-235/236	Particulate	-0.006 U	0.013	0.048	SMRD-085-GW081910	U-235/236	Suspended	0.0015 U	0.0068	0.036
RD-85	RD-85_082610_01	U-238	Dissolved	1.01	0.15	0.056	SMRD-085-GW081910	U-238	Filtered	1.93	0.13	0.03
RD-85	RD-85_082610_01	U-238	Particulate	-0.005 U	0.01	0.049	SMRD-085-GW081910	U-238	Suspended	0.019 U	0.02	0.067
RD-86	RD-86_081910_01	Sb-125	Dissolved	-1.98 U	3.8	6.73	SMRD-086-GW081910	Sb-125	Filtered	-1 U	4.3	15
RD-86	RD-86_081910_01	Sb-125	Particulate	1.46 U	4.3	7.46	SMRD-086-GW081910	Sb-125	Suspended	-1.6 U	1.9	6.2
RD-86	RD-86_081910_01	Cs-134	Dissolved	0.461 U	1.1	1.88	SMRD-086-GW081910	Cs-134	Filtered	-0.31 U	0.43	1.4
RD-86	RD-86_081910_01	Cs-134	Particulate	0.176 U	1.9	3.37	SMRD-086-GW081910	Cs-134	Suspended	0.09 U	0.18	0.62
RD-86	RD-86_081910_01	Cs-137	Dissolved	1.51 U	1.7	2.92	SMRD-086-GW081910	Cs-137	Filtered	-0.53 U	0.39	1.3
RD-86	RD-86_081910_01	Cs-137	Particulate	-1.41 U	1.7	3.14	SMRD-086-GW081910	Cs-137	Suspended	0.13 U	0.18	0.61
RD-86	RD-86_081910_01	Co-60	Dissolved	0.041 U	0.98	1.77	SMRD-086-GW081910	Co-60	Filtered	0 U	0.5	1.7
RD-86	RD-86_081910_01	Co-60	Particulate	0.689 U	1.6	2.88	SMRD-086-GW081910	Co-60	Suspended	-0.02 U	0.21	0.74

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-86	RD-86_081910_01	Eu-152	Dissolved	0.267 U	24	3.48	SMRD-086-GW081910	Eu-152	Filtered	-0.9 U	1.1	3.5
RD-86	RD-86_081910_01	Eu-152	Particulate	-0.665 U	5.4	9.49	SMRD-086-GW081910	Eu-152	Suspended	0.26 U	0.41	1.4
RD-86	RD-86_081910_01	Eu-154	Dissolved	-4.7 U	5.9	5.96	SMRD-086-GW081910	Eu-154	Filtered	0.5 U	2.8	9.7
RD-86	RD-86_081910_01	Eu-154	Particulate	-4.76 U	5.1	10.2	SMRD-086-GW081910	Eu-154	Suspended	-0.5 U	1.8	6.2
RD-86	RD-86_081910_01	Eu-155	Dissolved	4.56 U	4.6	7.74	SMRD-086-GW081910	Eu-155	Filtered	0.2 U	1.1	3.6
RD-86	RD-86_081910_01	Eu-155	Particulate	1.49 U	6	10.2	SMRD-086-GW081910	Eu-155	Suspended	-0.05 U	0.37	1.2
RD-86	RD-86_081910_01	gross_alpha	Dissolved	1.8 J	1.2	1.77	SMRD-086-GW081910	gross_alpha	Filtered	3.97	0.4	0.42
RD-86	RD-86_081910_01	gross_alpha	Particulate	1.23 J	0.66	1.03	SMRD-086-GW081910	gross_alpha	Suspended	0.14 U	0.21	0.76
RD-86	RD-86_081910_01	gross_beta	Dissolved	3.58 J	2	3.12	SMRD-086-GW081910	gross_beta	Filtered	206	8.5	2.4
RD-86	RD-86_081910_01	gross_beta	Particulate	1.27 U	1.4	2.3	SMRD-086-GW081910	gross_beta	Suspended	0.64	0.24	0.74
RD-86	RD-86_081910_01	K-40	Dissolved	-4.17 U	22	37.7	SMRD-086-GW081910	K-40	Filtered	-1.3 U	7.5	25
RD-86	RD-86_081910_01	K-40	Particulate	-17.8 U	36	65.2	SMRD-086-GW081910	K-40	Suspended	6.7	3.4	9.6
RD-86	RD-86_081910_01	Na-22	Dissolved	0.064 U	1.3	2.22	SMRD-086-GW081910	Na-22	Filtered	-0.27 U	0.38	1.3
RD-86	RD-86_081910_01	Na-22	Particulate	-1.65 U	1.8	3.54	SMRD-086-GW081910	Na-22	Suspended	0.11 U	0.23	0.79
RD-86	RD-86_081910_01	Sr-90	Particulate	-0.023 U	0.27	0.544	SMRD-086-GW081910	Sr-90	Suspended	0.025 U	0.022	0.074
RD-86	RD-86_081910_01	H-3	Total	-17 U	92	157	SMRD-086-GW081910	H-3	Filtered	-5 U	40	140
RD-86	RD-86_081910_01	U-233/234	Dissolved	2.33	0.2	0.059	SMRD-086-GW081910	U-233/234	Filtered	1.98	0.13	0.04
RD-86	RD-86_081910_01	U-233/234	Particulate	0.048 U	0.038	0.059	SMRD-086-GW081910	U-233/234	Suspended	0.024	0.014	0.033
RD-86	RD-86_081910_01	U-235/236	Dissolved	0.08 J	0.035	0.034	SMRD-086-GW081910	U-235/236	Filtered	0.102	0.025	0.016
RD-86	RD-86_081910_01	U-235/236	Particulate	0 U	0.023	0.056	SMRD-086-GW081910	U-235/236	Suspended	0 U	0.0021	0.015
RD-86	RD-86_081910_01	U-238	Dissolved	1.93	0.18	0.045	SMRD-086-GW081910	U-238	Filtered	2	0.13	0.02
RD-86	RD-86_081910_01	U-238	Particulate	0.014 U	0.019	0.046	SMRD-086-GW081910	U-238	Suspended	0.024	0.013	0.03
RD-96	RD-96_081910_01	Sb-125	Dissolved	1.65 U	3.7	6.22	SMRD-96-GW081910	Sb-125	Filtered	2.4 U	4.2	14
RD-96	RD-96_081910_01	Sb-125	Particulate	-1.85 U	3.2	5.72	SMRD-96-GW081910	Sb-125	Suspended	0.7 U	1.8	6.1
RD-96	RD-96_081910_01	Cs-134	Dissolved	0.014 U	0.46	2.09	SMRD-96-GW081910	Cs-134	Filtered	0.32 U	0.42	1.4
RD-96	RD-96_081910_01	Cs-134	Particulate	0.071 U	1.9	3.39	SMRD-96-GW081910	Cs-134	Suspended	-0.14 U	0.28	0.95
RD-96	RD-96_081910_01	Cs-137	Dissolved	-1.19 U	1.4	2.56	SMRD-96-GW081910	Cs-137	Filtered	0 U	0.45	1.6
RD-96	RD-96_081910_01	Cs-137	Particulate	0.367 U	1.7	2.9	SMRD-96-GW081910	Cs-137	Suspended	0.13 U	0.22	0.74
RD-96	RD-96_081910_01	Co-60	Dissolved	0.431 U	1.3	2.31	SMRD-96-GW081910	Co-60	Filtered	-0.001 U	0.51	1.8
RD-96	RD-96_081910_01	Co-60	Particulate	-0.156 U	1.2	2.2	SMRD-96-GW081910	Co-60	Suspended	0.13 U	0.21	0.74
RD-96	RD-96_081910_01	Eu-152	Dissolved	0.018 U	0.35	3.49	SMRD-96-GW081910	Eu-152	Filtered	0.08 U	1.1	3.7

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-96	RD-96_081910_01	Eu-152	Particulate	-0.673 U	4.8	8.32	SMRD-96-GW081910	Eu-152	Suspended	0.11 U	0.52	1.8
RD-96	RD-96_081910_01	Eu-154	Dissolved	-0.065 U	2.5	4.63	SMRD-96-GW081910	Eu-154	Filtered	-0.3 U	2.4	8.9
RD-96	RD-96_081910_01	Eu-154	Particulate	1.91 U	3.9	6.77	SMRD-96-GW081910	Eu-154	Suspended	-0.04 U	1.4	5
RD-96	RD-96_081910_01	Eu-155	Dissolved	-0.394 U	3.8	6.59	SMRD-96-GW081910	Eu-155	Filtered	0.334 U	0.997	3.4
RD-96	RD-96_081910_01	Eu-155	Particulate	-0.178 U	3.7	6.37	SMRD-96-GW081910	Eu-155	Suspended	0.31 U	0.37	1.2
RD-96	RD-96_081910_01	gross_alpha	Dissolved	5.06	1.5	1.59	SMRD-96-GW081910	gross_alpha	Filtered	11.7	0.83	0.53
RD-96	RD-96_081910_01	gross_alpha	Particulate	7.19	1.8	1.28	SMRD-96-GW081910	gross_alpha	Suspended	8.63	0.7	0.59
RD-96	RD-96_081910_01	gross_beta	Dissolved	7.04	1.7	2.48	SMRD-96-GW081910	gross_beta	Filtered	13.4	1.2	2.1
RD-96	RD-96_081910_01	gross_beta	Particulate	9.06	2.4	3.33	SMRD-96-GW081910	gross_beta	Suspended	7.28	0.54	0.79
RD-96	RD-96_081910_01	K-40	Dissolved	-4.22 U	20	35.8	SMRD-96-GW081910	K-40	Filtered	-5.2 U	7.8	23
RD-96	RD-96_081910_01	K-40	Particulate	8.84 U	16	27.6	SMRD-96-GW081910	K-40	Suspended	6.4	3	9.7
RD-96	RD-96_081910_01	Na-22	Dissolved	-0.022 U	0.88	1.61	SMRD-96-GW081910	Na-22	Filtered	-0.01 U	0.44	1.6
RD-96	RD-96_081910_01	Na-22	Particulate	0.661 U	1.3	2.35	SMRD-96-GW081910	Na-22	Suspended	0.28 U	0.25	0.83
RD-96	RD-96_081910_01	Sr-90	Dissolved	-0.094 U	0.3	0.596	SMRD-96-GW081910	Sr-90	Suspended	0.082	0.023	0.069
RD-96	RD-96_081910_01	H-3	Total	80.2 U	95	156	SMRD-96-GW081910	H-3	Filtered	43 U	40	130
RD-96	RD-96_081910_01	U-233/234	Dissolved	3.88	0.29	0.076	SMRD-96-GW081910	U-233/234	Filtered	3.89	0.21	0.06
RD-96	RD-96_081910_01	U-233/234	Particulate	0.187 J	0.082	0.094	SMRD-96-GW081910	U-233/234	Suspended	0.396	0.046	0.012
RD-96	RD-96_081910_01	U-235/236	Dissolved	0.175 J	0.06	0.038	SMRD-96-GW081910	U-235/236	Filtered	0.225	0.038	0.016
RD-96	RD-96_081910_01	U-235/236	Particulate	0.014 U	0.028	0.054	SMRD-96-GW081910	U-235/236	Suspended	0.0056 U	0.0056	0.015
RD-96	RD-96_081910_01	U-238	Dissolved	3.54	0.27	0.059	SMRD-96-GW081910	U-238	Filtered	3.83	0.21	0.03
RD-96	RD-96_081910_01	U-238	Particulate	0.216 J	0.071	0.045	SMRD-96-GW081910	U-238	Suspended	0.249	0.036	0.012
RD-98	RD-98_111910_01	Sb-125	Dissolved	0.833 U	3.3	5.63	SMRD-098-GW090210	Sb-125	Filtered	0.07 U	4.2	14
RD-98	RD-98_111910_01	Sb-125	Particulate	-1.18 U	3.5	6.17	SMRD-098-GW090210	Sb-125	Suspended	-0.03 U	0.97	3.3
RD-98	RD-98_111910_01	Cs-134	Dissolved	0.7 U	1	1.76	SMRD-098-GW090210	Cs-134	Filtered	-0.18 U	0.36	1.2
RD-98	RD-98_111910_01	Cs-134	Particulate	-0.114 U	2.8	4.82	SMRD-098-GW090210	Cs-134	Suspended	-0.23 U	0.18	0.59
RD-98	RD-98_111910_01	Cs-137	Dissolved	-0.061 U	2.1	3.56	SMRD-098-GW090210	Cs-137	Filtered	-0.26 U	0.39	1.3
RD-98	RD-98_111910_01	Cs-137	Particulate	-0.398 U	2.3	4.06	SMRD-098-GW090210	Cs-137	Suspended	-0.02 U	0.14	0.51
RD-98	RD-98_111910_01	Co-60	Dissolved	0.223 U	1.7	3	SMRD-098-GW090210	Co-60	Filtered	0 U	0.25	0.9
RD-98	RD-98_111910_01	Co-60	Particulate	0.318 U	2	3.53	SMRD-098-GW090210	Co-60	Suspended	-0.01 U	0.18	0.64
RD-98	RD-98_111910_01	Eu-152	Dissolved	-0.512 U	3.3	7.15	SMRD-098-GW090210	Eu-152	Filtered	-0.4 U	1.2	3.9
RD-98	RD-98_111910_01	Eu-152	Particulate	1.48 U	2.6	6.98	SMRD-098-GW090210	Eu-152	Suspended	0.27 U	0.33	1.1

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

Well Identification	BOEING DATA						USEPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-98	RD-98_111910_01	Eu-154	Dissolved	0.523 U	3.2	5.7	SMRD-098-GW090210	Eu-154	Filtered	0.3 U	3	10
RD-98	RD-98_111910_01	Eu-154	Particulate	2.6 U	4.8	8.26	SMRD-098-GW090210	Eu-154	Suspended	-0.2 U	1.1	4
RD-98	RD-98_111910_01	Eu-155	Dissolved	-0.642 U	3.3	5.74	SMRD-098-GW090210	Eu-155	Filtered	0.34 U	0.89	3
RD-98	RD-98_111910_01	Eu-155	Particulate	2.1 U	4.5	7.66	SMRD-098-GW090210	Eu-155	Suspended	0.07 U	0.21	0.72
RD-98	RD-98_111910_01	gross_alpha	Dissolved	1.9 U	1.4	1.98	SMRD-098-GW090210	gross_alpha	Filtered	4.28	0.45	0.44
RD-98	RD-98_111910_01	gross_alpha	Particulate	12.1	1.4	0.637	SMRD-098-GW090210	gross_alpha	Suspended	7.65	0.71	0.64
RD-98	RD-98_111910_01	gross_beta	Dissolved	22.8	1.7	1.81	SMRD-098-GW090210	gross_beta	Filtered	14.7	1.4	2.8
RD-98	RD-98_111910_01	gross_beta	Particulate	16.4	1.6	1.98	SMRD-098-GW090210	gross_beta	Suspended	2.76	0.36	0.81
RD-98	RD-98_111910_01	K-40	Dissolved	-2.1 U	17	29.9	SMRD-098-GW090210	K-40	Filtered	47.2	7.2	18
RD-98	RD-98_111910_01	K-40	Particulate	8.81 U	30	52	SMRD-098-GW090210	K-40	Suspended	-2.3 U	2.8	8.8
RD-98	RD-98_111910_01	Na-22	Dissolved	0.177 U	1.1	1.93	SMRD-098-GW090210	Na-22	Filtered	-0.13 U	0.39	1.4
RD-98	RD-98_111910_01	Na-22	Particulate	0.882 U	1.6	2.8	SMRD-098-GW090210	Na-22	Suspended	0.05 U	0.17	0.6
RD-98	RD-98_111910_01	Sr-90	Dissolved	9.68	0.64	0.459	SMRD-098-GW090210	Sr-90	Filtered	7	0.36	0.23
RD-98	RD-98_111910_01	Sr-90	Particulate	-0.064 U	0.23	0.479	SMRD-098-GW090210	Sr-90	Suspended	0.167	0.05	0.15
RD-98	RD-98_111910_01	H-3	Total	41.3 U	79	132	SMRD-098-GW090210	H-3	Filtered	-90 L U	40	140
RD-98	RD-98_111910_01	U-233/234	Dissolved	2	0.26	0.078	SMRD-098-GW090210	U-233/234	Filtered	2.18	0.14	0.03
RD-98	RD-98_111910_01	U-233/234	Particulate	0.205 J	0.038	0.033	SMRD-098-GW090210	U-233/234	Suspended	0.141	0.031	0.032
RD-98	RD-98_111910_01	U-235/236	Dissolved	0.12 J	0.069	0.066	SMRD-098-GW090210	U-235/236	Filtered	0.098	0.027	0.019
RD-98	RD-98_111910_01	U-235/236	Particulate	0.035 J	0.019	0.024	SMRD-098-GW090210	U-235/236	Suspended	0.0066	0.0094	0.018
RD-98	RD-98_111910_01	U-238	Dissolved	1.34	0.21	0.078	SMRD-098-GW090210	U-238	Filtered	1.52	0.11	0.04
RD-98	RD-98_111910_01	U-238	Particulate	0.17 J	0.035	0.021	SMRD-098-GW090210	U-238	Suspended	0.108	0.026	0.027

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval.

The gross alpha and gross beta results reported by The Boeing Company, may lack adequate analytical control and should not be used as a basis for assessing the data quality or making analytical decisions.

MDC - minimum detectable concentration

pCi/L - picocuries per liter

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

U - Not considered detected. The associated number is the reported concentration.

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-13	RD-13_011311_01	Sb-125	Dissolved	3.51 U	4	6.71	SMRD-13-GW032911	Sb-125	Filtered	-1.1 U	3.6	12
RD-13	RD-13_011311_01	Sb-125	Particulate	-5.94 U	7.9	13.8	SMRD-13-GW032911	Sb-125	Suspended	-1.9 U	1.4	4.5
RD-13	RD-13_011311_01	Cs-134	Dissolved	0.406 U	1.5	2.58	SMRD-13-GW032911	Cs-134	Filtered	0.04 U	0.33	1.1
RD-13	RD-13_011311_01	Cs-134	Particulate	0.814 U	3.7	6.45	SMRD-13-GW032911	Cs-134	Suspended	0.06 U	0.12	0.42
RD-13	RD-13_011311_01	Cs-137	Dissolved	0.282 U	1.4	2.4	SMRD-13-GW032911	Cs-137	Filtered	0.49 U	0.35	1.2
RD-13	RD-13_011311_01	Cs-137	Particulate	-2.75 U	4.1	7.22	SMRD-13-GW032911	Cs-137	Suspended	0.13 U	0.15	0.51
RD-13	RD-13_011311_01	Co-60	Dissolved	0.139 U	0.99	1.77	SMRD-13-GW032911	Co-60	Filtered	0 U	0.33	1.2
RD-13	RD-13_011311_01	Co-60	Particulate	-1.06 U	2.4	4.49	SMRD-13-GW032911	Co-60	Suspended	-0.08 U	0.17	0.6
RD-13	RD-13_011311_01	Eu-152	Dissolved	-1.92 U	5	8.65	SMRD-13-GW032911	Eu-152	Filtered	0.85 U	0.95	3.2
RD-13	RD-13_011311_01	Eu-152	Particulate	-8.77 U	11	18.5	SMRD-13-GW032911	Eu-152	Suspended	0.21 U	0.41	1.4
RD-13	RD-13_011311_01	Eu-154	Dissolved	-0.452 U	2.8	5.13	SMRD-13-GW032911	Eu-154	Filtered	-1.3 U	2.7	9.3
RD-13	RD-13_011311_01	Eu-154	Particulate	-1.38 U	5.7	10.6	SMRD-13-GW032911	Eu-154	Suspended	0.2 U	1.1	4
RD-13	RD-13_011311_01	Eu-155	Dissolved	1.24 U	4.3	7.33	SMRD-13-GW032911	Eu-155	Filtered	0.17 U	0.87	2.9
RD-13	RD-13_011311_01	Eu-155	Particulate	1.56 U	7.4	12.6	SMRD-13-GW032911	Eu-155	Suspended	-0.17 U	0.29	0.98
RD-13	RD-13_011311_01	gross_alpha	Dissolved	3.33	1.3	1.38	SMRD-13-GW032911	gross_alpha	Filtered	5.68 J	0.53	0.58
RD-13	RD-13_011311_01	gross_alpha	Particulate	-0.426 U	0.38	0.86	SMRD-13-GW032911	gross_alpha	Suspended	0.32	0.15	0.43
RD-13	RD-13_011311_01	gross_beta	Dissolved	4.11	1.5	2.21	SMRD-13-GW032911	gross_beta	Filtered	5.09 R	0.59	1.2
RD-13	RD-13_011311_01	gross_beta	Particulate	-0.616 U	1.4	2.34	SMRD-13-GW032911	gross_beta	Suspended	-0.37 U	0.23	0.86
RD-13	RD-13_011311_01	K-40	Dissolved	-9.48 U	20	35.7	SMRD-13-GW032911	K-40	Filtered	1 U	4.7	16
RD-13	RD-13_011311_01	K-40	Particulate	17.6 U	38	64.7	SMRD-13-GW032911	K-40	Suspended	-3.2 U	3.2	8.5
RD-13	RD-13_011311_01	Na-22	Dissolved	-0.153 U	0.94	1.74	SMRD-13-GW032911	Na-22	Filtered	-0.005 U	0.31	1.1
RD-13	RD-13_011311_01	Na-22	Particulate	-0.467 U	1.9	3.59	SMRD-13-GW032911	Na-22	Suspended	0.008 U	0.17	0.61
RD-13	RD-13_011311_01	Sr-90	Dissolved	0.142 U	0.37	0.687	SMRD-13-GW032911	Sr-90	Filtered	0.054 U	0.035	0.12
RD-13	RD-13_011311_01	Sr-90	Particulate	-0.272 U	0.34	0.731	SMRD-13-GW032911	Sr-90	Suspended	0.008 U	0.019	0.068
RD-13	RD-13_011311_01	H-3	Total	53.6 U	170	291	SMRD-13-GW032911	H-3	Total	-7 U	36	120
RD-13	RD-13_011311_01	U-233/234	Dissolved	2.47	0.31	0.108	SMRD-13-GW032911	U-233/234	Filtered	2.57	0.13	0.02
RD-13	RD-13_011311_01	U-233/234	Particulate	-0.009 U	0.034	0.094	SMRD-13-GW032911	U-233/234	Suspended	0 U	0.0059	0.018
RD-13	RD-13_011311_01	U-235/236	Dissolved	0.068 U	0.058	0.074	SMRD-13-GW032911	U-235/236	Filtered	0.123	0.019	0.008
RD-13	RD-13_011311_01	U-235/236	Particulate	0.01 U	0.021	0.079	SMRD-13-GW032911	U-235/236	Suspended	0.0023 U	0.0023	0.0063

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-13	RD-13_011311_01	U-238	Dissolved	1.62	0.24	0.077	SMRD-13-GW032911	U-238	Filtered	2.06	0.11	0.006
RD-13	RD-13_011311_01	U-238	Particulate	-0.017 U	0.017	0.082	SMRD-13-GW032911	U-238	Suspended	-0.0018 U	0.004	0.013
RD-14	RD-14_011311_01	Sb-125	Dissolved	3.44 U	7.6	13	SMRD-14-GW032111	Sb-125	Filtered	-2.7 U	3.7	12
RD-14	RD-14_011311_01	Sb-125	Particulate	0.997 U	5.2	8.94	SMRD-14-GW032111	Sb-125	Suspended	0.5 U	1.6	5.3
RD-14	RD-14_011311_01	Cs-134	Dissolved	-1.64 U	3	5.46	SMRD-14-GW032111	Cs-134	Filtered	0.22 U	0.29	1
RD-14	RD-14_011311_01	Cs-134	Particulate	3.38 U	5	8.44	SMRD-14-GW032111	Cs-134	Suspended	0.07 U	0.18	0.63
RD-14	RD-14_011311_01	Cs-137	Dissolved	-0.661 U	2	3.64	SMRD-14-GW032111	Cs-137	Filtered	0.03 U	0.41	1.4
RD-14	RD-14_011311_01	Cs-137	Particulate	0.748 U	2.6	4.39	SMRD-14-GW032111	Cs-137	Suspended	0.23 U	0.19	0.64
RD-14	RD-14_011311_01	Co-60	Dissolved	0.558 U	2.3	4.14	SMRD-14-GW032111	Co-60	Filtered	-0.002 U	0.42	1.5
RD-14	RD-14_011311_01	Co-60	Particulate	-0.577 U	3.2	5.56	SMRD-14-GW032111	Co-60	Suspended	-0.005 U	0.18	0.65
RD-14	RD-14_011311_01	Eu-152	Dissolved	-2.07 U	9.1	15.8	SMRD-14-GW032111	Eu-152	Filtered	1.36 U	0.96	3.2
RD-14	RD-14_011311_01	Eu-152	Particulate	2.44 U	16	5.57	SMRD-14-GW032111	Eu-152	Suspended	0 U	0.53	1.8
RD-14	RD-14_011311_01	Eu-154	Dissolved	-2.69 U	7.6	14.1	SMRD-14-GW032111	Eu-154	Filtered	-1.9 U	3.6	13
RD-14	RD-14_011311_01	Eu-154	Particulate	-0.259 U	6.3	11.2	SMRD-14-GW032111	Eu-154	Suspended	-1.1 U	1.8	6.2
RD-14	RD-14_011311_01	Eu-155	Dissolved	3.43 U	8.2	14	SMRD-14-GW032111	Eu-155	Filtered	0.53 U	0.87	2.9
RD-14	RD-14_011311_01	Eu-155	Particulate	-0.905 U	6.2	10.6	SMRD-14-GW032111	Eu-155	Suspended	0.23 U	0.36	1.2
RD-14	RD-14_011311_01	gross_alpha	Dissolved	4.34	1.6	1.68	SMRD-14-GW032111	gross_alpha	Filtered	3.91	0.39	0.36
RD-14	RD-14_011311_01	gross_alpha	Particulate	0.239 U	0.56	0.924	SMRD-14-GW032111	gross_alpha	Suspended	0.22 U	0.16	0.52
RD-14	RD-14_011311_01	gross_beta	Dissolved	4	1.6	2.46	SMRD-14-GW032111	gross_beta	Filtered	3.84	0.99	2.7
RD-14	RD-14_011311_01	gross_beta	Particulate	0.053 U	1.4	2.32	SMRD-14-GW032111	gross_beta	Suspended	0.52	0.25	0.78
RD-14	RD-14_011311_01	K-40	Dissolved	23.3 U	33	55.9	SMRD-14-GW032111	K-40	Filtered	-4.6 U	9.1	20
RD-14	RD-14_011311_01	K-40	Particulate	-9.42 U	34	59.7	SMRD-14-GW032111	K-40	Suspended	2.1 U	3.2	12
RD-14	RD-14_011311_01	Na-22	Dissolved	-0.912 U	2.6	4.77	SMRD-14-GW032111	Na-22	Filtered	-0.29 U	0.46	1.6
RD-14	RD-14_011311_01	Na-22	Particulate	-0.088 U	2.1	3.78	SMRD-14-GW032111	Na-22	Suspended	-0.08 U	0.22	0.75
RD-14	RD-14_011311_01	Sr-90	Dissolved	-0.128 U	0.3	0.613	SMRD-14-GW032111	Sr-90	Filtered	0.086	0.023	0.07
RD-14	RD-14_011311_01	Sr-90	Particulate	-0.037 U	0.34	0.679	SMRD-14-GW032111	Sr-90	Suspended	-0.013 U	0.03	0.11
RD-14	RD-14_011311_01	H-3	Total	-154 U	160	296	SMRD-14-GW032111	H-3	Total	52 U	43	140
RD-14	RD-14_011311_01	U-233/234	Dissolved	2.58	0.31	0.116	SMRD-14-GW032111	U-233/234	Filtered	3.11	0.15	0.01
RD-14	RD-14_011311_01	U-233/234	Particulate	0.033 U	0.033	0.063	SMRD-14-GW032111	U-233/234	Suspended	0.011	0.011	0.01

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-14	RD-14_011311_01	U-235/236	Dissolved	0.068 U	0.058	0.074	SMRD-14-GW032111	U-235/236	Filtered	0.116	0.019	0.007
RD-14	RD-14_011311_01	U-235/236	Particulate	0.02 U	0.02	0.077	SMRD-14-GW032111	U-235/236	Suspended	0.001 U	0.0061	0.032
RD-14	RD-14_011311_01	U-238	Dissolved	2.36	0.29	0.089	SMRD-14-GW032111	U-238	Filtered	2.72	0.14	0.01
RD-14	RD-14_011311_01	U-238	Particulate	0.033 U	0.033	0.063	SMRD-14-GW032111	U-238	Suspended	0.025	0.014	0.032
RD-18	RD-18_011311_01	Sb-125	Dissolved	-0.07 U	3.2	5.55	SMRD-18-GW032211	Sb-125	Filtered	0.03 U	2.6	9
RD-18	RD-18_011311_01	Sb-125	Particulate	-0.988 U	4	7.1	SMRD-18-GW032211	Sb-125	Suspended	0.2 U	1.8	6.1
RD-18	RD-18_011311_01	Cs-134	Dissolved	-0.139 U	1.6	2.72	SMRD-18-GW032211	Cs-134	Filtered	-0.31 U	0.38	1.3
RD-18	RD-18_011311_01	Cs-134	Particulate	-1.13 U	3	5.3	SMRD-18-GW032211	Cs-134	Suspended	0.12 U	0.19	0.63
RD-18	RD-18_011311_01	Cs-137	Dissolved	-0.235 U	1.1	2.02	SMRD-18-GW032211	Cs-137	Filtered	0.05 U	0.28	0.97
RD-18	RD-18_011311_01	Cs-137	Particulate	-0.925 U	2.1	3.74	SMRD-18-GW032211	Cs-137	Suspended	-0.06 U	0.22	0.74
RD-18	RD-18_011311_01	Co-60	Dissolved	-0.198 U	1.1	2.02	SMRD-18-GW032211	Co-60	Filtered	-0.31 U	0.35	1.2
RD-18	RD-18_011311_01	Co-60	Particulate	0.59 U	2.7	4.62	SMRD-18-GW032211	Co-60	Suspended	0.01 U	0.19	0.67
RD-18	RD-18_011311_01	Eu-152	Dissolved	-0.602 U	3.5	6.05	SMRD-18-GW032211	Eu-152	Filtered	1.17 U	0.78	2.6
RD-18	RD-18_011311_01	Eu-152	Particulate	0.277 U	2.3	6.83	SMRD-18-GW032211	Eu-152	Suspended	-0.53 U	0.54	1.8
RD-18	RD-18_011311_01	Eu-154	Dissolved	-0.373 U	2.9	5.28	SMRD-18-GW032211	Eu-154	Filtered	-0.3 U	2.4	8.3
RD-18	RD-18_011311_01	Eu-154	Particulate	-4.72 U	6.4	11.8	SMRD-18-GW032211	Eu-154	Suspended	1.2 U	1.6	5.5
RD-18	RD-18_011311_01	Eu-155	Dissolved	-2.12 U	4.3	7.45	SMRD-18-GW032211	Eu-155	Filtered	-0.76 U	0.93	3.1
RD-18	RD-18_011311_01	Eu-155	Particulate	-1.23 U	4.6	7.92	SMRD-18-GW032211	Eu-155	Suspended	0.16 U	0.36	1.2
RD-18	RD-18_011311_01	gross_alpha	Dissolved	4.02	1.3	1.23	SMRD-18-GW032211	gross_alpha	Filtered	7.71	0.61	0.38
RD-18	RD-18_011311_01	gross_alpha	Particulate	1.16 J	0.48	0.534	SMRD-18-GW032211	gross_alpha	Suspended	2.75	0.33	0.42
RD-18	RD-18_011311_01	gross_beta	Dissolved	5.32	1.7	2.51	SMRD-18-GW032211	gross_beta	Filtered	4.89	0.83	2
RD-18	RD-18_011311_01	gross_beta	Particulate	0.119 U	0.9	1.47	SMRD-18-GW032211	gross_beta	Suspended	0.3 U	0.26	0.87
RD-18	RD-18_011311_01	K-40	Dissolved	-1.99 U	17	30.5	SMRD-18-GW032211	K-40	Filtered	-0.8 U	4.4	17
RD-18	RD-18_011311_01	K-40	Particulate	3.81 U	29	50.9	SMRD-18-GW032211	K-40	Suspended	5.6 U	3.3	12
RD-18	RD-18_011311_01	Na-22	Dissolved	-0.126 U	0.98	1.79	SMRD-18-GW032211	Na-22	Filtered	0.01 U	0.31	1.1
RD-18	RD-18_011311_01	Na-22	Particulate	-1.6 U	2.1	3.98	SMRD-18-GW032211	Na-22	Suspended	0.02 U	0.2	0.72
RD-18	RD-18_011311_01	Sr-90	Dissolved	0.027 U	0.39	0.758	SMRD-18-GW032211	Sr-90	Filtered	0.004 U	0.016	0.054
RD-18	RD-18_011311_01	Sr-90	Particulate	-0.07 U	0.38	0.746	SMRD-18-GW032211	Sr-90	Suspended	0.028 U	0.017	0.054
RD-18	RD-18_011311_01	H-3	Total	-45 U	170	293	SMRD-18-GW032211	H-3	Total	-18 U	44	150

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-18	RD-18_011311_01	U-233/234	Dissolved	2.9	0.33	0.105	SMRD-18-GW032211	U-233/234	Filtered	3.3	0.16	0.006
RD-18	RD-18_011311_01	U-233/234	Particulate	0.062 U	0.046	0.074	SMRD-18-GW032211	U-233/234	Suspended	0.077	0.019	0.024
RD-18	RD-18_011311_01	U-235/236	Dissolved	0.143 J	0.076	0.073	SMRD-18-GW032211	U-235/236	Filtered	0.124	0.018	0.007
RD-18	RD-18_011311_01	U-235/236	Particulate	0.037 U	0.037	0.071	SMRD-18-GW032211	U-235/236	Suspended	0.0053 U	0.0072	0.029
RD-18	RD-18_011311_01	U-238	Dissolved	2.32	0.29	0.097	SMRD-18-GW032211	U-238	Filtered	2.61	0.13	0.005
RD-18	RD-18_011311_01	U-238	Particulate	0.054 U	0.046	0.074	SMRD-18-GW032211	U-238	Suspended	0.057	0.017	0.024
RD-19	RD-19_011311_01	Sb-125	Dissolved	2.49 U	4.7	8.01	SMRD-19-GW031711	Sb-125	Filtered	-0.3 U	2.8	9.5
RD-19	RD-19_011311_01	Sb-125	Particulate	-0.265 U	4.1	7.1	SMRD-19-GW031711	Sb-125	Suspended	0.09	1.6	5.5
RD-19	RD-19_011311_01	Cs-134	Dissolved	0.009 U	1.9	3.5	SMRD-19-GW031711	Cs-134	Filtered	0.003	0.35	1.2
RD-19	RD-19_011311_01	Cs-134	Particulate	-1.47 U	2.1	3.71	SMRD-19-GW031711	Cs-134	Suspended	0.02	0.22	0.73
RD-19	RD-19_011311_01	Cs-137	Dissolved	0.268 U	2.1	3.63	SMRD-19-GW031711	Cs-137	Filtered	-0.04 U	0.33	1.2
RD-19	RD-19_011311_01	Cs-137	Particulate	1.17 U	2.8	4.73	SMRD-19-GW031711	Cs-137	Suspended	0.19	0.2	0.68
RD-19	RD-19_011311_01	Co-60	Dissolved	-0.446 U	3.5	6.22	SMRD-19-GW031711	Co-60	Filtered	0.05	0.26	0.94
RD-19	RD-19_011311_01	Co-60	Particulate	0.274 U	1.6	2.82	SMRD-19-GW031711	Co-60	Suspended	0.27	0.2	0.66
RD-19	RD-19_011311_01	Eu-152	Dissolved	2.78 U	10	17	SMRD-19-GW031711	Eu-152	Filtered	0.009	0.91	3.1
RD-19	RD-19_011311_01	Eu-152	Particulate	2.6 U	3.1	4.42	SMRD-19-GW031711	Eu-152	Suspended	0.32	0.52	1.7
RD-19	RD-19_011311_01	Eu-154	Dissolved	0.266 U	5	9.17	SMRD-19-GW031711	Eu-154	Filtered	-0.6 U	2.6	9
RD-19	RD-19_011311_01	Eu-154	Particulate	3.04 U	3.3	5.56	SMRD-19-GW031711	Eu-154	Suspended	0	1.8	6.3
RD-19	RD-19_011311_01	Eu-155	Dissolved	-2.42 U	9.5	16.3	SMRD-19-GW031711	Eu-155	Filtered	0.49	0.89	3
RD-19	RD-19_011311_01	Eu-155	Particulate	0.856 U	6.2	10.5	SMRD-19-GW031711	Eu-155	Suspended	0.46	0.37	1.2
RD-19	RD-19_011311_01	gross_alpha	Dissolved	16	3.7	4.1	SMRD-19-GW031711	gross_alpha	Filtered	20.8	1.2	0.4
RD-19	RD-19_011311_01	gross_alpha	Particulate	0.161 U	1	1.81	SMRD-19-GW031711	gross_alpha	Suspended	0.03 U	0.14	0.55
RD-19	RD-19_011311_01	gross_beta	Dissolved	13.5	3	4.23	SMRD-19-GW031711	gross_beta	Filtered	8	1.6	3.9
RD-19	RD-19_011311_01	gross_beta	Particulate	0.616 U	2.7	4.48	SMRD-19-GW031711	gross_beta	Suspended	0.34	0.26	0.84
RD-19	RD-19_011311_01	K-40	Dissolved	25.1 U	41	70.1	SMRD-19-GW031711	K-40	Filtered	11.1	4.4	15
RD-19	RD-19_011311_01	K-40	Particulate	-11.9 U	34	59.3	SMRD-19-GW031711	K-40	Suspended	1	3.5	12
RD-19	RD-19_011311_01	Na-22	Dissolved	0.09 U	1.7	3.1	SMRD-19-GW031711	Na-22	Filtered	-0.21 U	0.36	1.2
RD-19	RD-19_011311_01	Na-22	Particulate	1.03 U	1.1	1.88	SMRD-19-GW031711	Na-22	Suspended	-0.04 U	0.2	0.69
RD-19	RD-19_011311_01	Sr-90	Dissolved	-0.128 U	0.32	0.641	SMRD-19-GW031711	Sr-90	Filtered	0.112	0.049	0.16

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-19	RD-19_011311_01	Sr-90	Particulate	0.169 U	0.35	0.665	SMRD-19-GW031711	Sr-90	Suspended	0.066	0.038	0.12
RD-19	RD-19_011311_01	H-3	Total	-68.6 U	170	298	SMRD-19-GW031711	H-3	Total	-12 U	43	150
RD-19	RD-19_011311_01	U-233/234	Dissolved	13.1	0.88	0.155	SMRD-19-GW031711	U-233/234	Filtered	14	0.62	0.02
RD-19	RD-19_011311_01	U-233/234	Particulate	0.018 U	0.053	0.098	SMRD-19-GW031711	U-233/234	Suspended	0.0275	0.0088	0.0054
RD-19	RD-19_011311_01	U-235/236	Dissolved	0.735 J	0.18	0.075	SMRD-19-GW031711	U-235/236	Filtered	0.598	0.05	0.009
RD-19	RD-19_011311_01	U-235/236	Particulate	-0.011 U	0.021	0.082	SMRD-19-GW031711	U-235/236	Suspended	0.005 U	0.0035	0.0068
RD-19	RD-19_011311_01	U-238	Dissolved	11.9	0.83	0.137	SMRD-19-GW031711	U-238	Filtered	13.2	0.58	0.02
RD-19	RD-19_011311_01	U-238	Particulate	-0.009 U	0.018	0.085	SMRD-19-GW031711	U-238	Suspended	0.0021 U	0.0045	0.0054
RD-33A	RD-33A_011911_01	Sb-125	Dissolved	-1.64 U	6.1	10.8	SMRD-33A-GW033111	Sb-125	Filtered	-4.9 U	4.7	16
RD-33A	RD-33A_011911_01	Sb-125	Particulate	3.17 U	5.8	9.85	SMRD-33A-GW033111	Sb-125	Suspended	0.7 U	1.7	5.8
RD-33A	RD-33A_011911_01	Cs-134	Dissolved	-1.71 U	2.2	4.1	SMRD-33A-GW033111	Cs-134	Filtered	-0.28 U	0.52	1.8
RD-33A	RD-33A_011911_01	Cs-134	Particulate	-1.4 U	1.8	3.33	SMRD-33A-GW033111	Cs-134	Suspended	-0.21 U	0.23	0.76
RD-33A	RD-33A_011911_01	Cs-137	Dissolved	-0.529 U	2.9	5.08	SMRD-33A-GW033111	Cs-137	Filtered	0.37 U	0.45	1.5
RD-33A	RD-33A_011911_01	Cs-137	Particulate	-2.02 U	2.2	3.85	SMRD-33A-GW033111	Cs-137	Suspended	-0.12 U	0.23	0.78
RD-33A	RD-33A_011911_01	Co-60	Dissolved	0.953 U	2	3.44	SMRD-33A-GW033111	Co-60	Filtered	0 U	0.51	1.8
RD-33A	RD-33A_011911_01	Co-60	Particulate	-0.963 U	2.2	3.94	SMRD-33A-GW033111	Co-60	Suspended	-0.003 U	0.18	0.64
RD-33A	RD-33A_011911_01	Eu-152	Dissolved	-1.58 U	11	18.5	SMRD-33A-GW033111	Eu-152	Filtered	0.2 U	1.2	4
RD-33A	RD-33A_011911_01	Eu-152	Particulate	0.415 U	6.6	11.3	SMRD-33A-GW033111	Eu-152	Suspended	-0.38 U	0.55	1.9
RD-33A	RD-33A_011911_01	Eu-154	Dissolved	3.39 U	6.1	10.6	SMRD-33A-GW033111	Eu-154	Filtered	-1.9 U	3.5	12
RD-33A	RD-33A_011911_01	Eu-154	Particulate	3.35 U	4.9	8.39	SMRD-33A-GW033111	Eu-154	Suspended	-1.5 U	1.9	6.3
RD-33A	RD-33A_011911_01	Eu-155	Dissolved	-0.471 U	8.1	14	SMRD-33A-GW033111	Eu-155	Filtered	1.3 U	1.2	3.8
RD-33A	RD-33A_011911_01	Eu-155	Particulate	0.447 U	5.2	8.95	SMRD-33A-GW033111	Eu-155	Suspended	-0.25 U	0.43	1.4
RD-33A	RD-33A_011911_01	gross_alpha	Dissolved	3.69	1.1	1.16	SMRD-33A-GW033111	gross_alpha	Filtered	5.02	0.45	0.43
RD-33A	RD-33A_011911_01	gross_alpha	Particulate	0.236 U	0.73	1.31	SMRD-33A-GW033111	gross_alpha	Suspended	0.14 U	0.12	0.42
RD-33A	RD-33A_011911_01	gross_beta	Dissolved	5.73	0.74	0.944	SMRD-33A-GW033111	gross_beta	Filtered	4.02	0.7	1.8
RD-33A	RD-33A_011911_01	gross_beta	Particulate	-0.183 U	0.65	1.1	SMRD-33A-GW033111	gross_beta	Suspended	0.28 U	0.25	0.83
RD-33A	RD-33A_011911_01	K-40	Dissolved	19.9 U	46	79.7	SMRD-33A-GW033111	K-40	Filtered	21.2	6.6	20
RD-33A	RD-33A_011911_01	K-40	Particulate	22.4 U	31	51.8	SMRD-33A-GW033111	K-40	Suspended	0.07 U	3.5	12
RD-33A	RD-33A_011911_01	Na-22	Dissolved	1.15 U	2.1	3.58	SMRD-33A-GW033111	Na-22	Filtered	-0.15 U	0.49	1.7

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33A	RD-33A_011911_01	Na-22	Particulate	1.13 U	1.7	2.84	SMRD-33A-GW033111	Na-22	Suspended	-0.07 U	0.23	0.79
RD-33A	RD-33A_011911_01	Sr-90	Dissolved	-0.183 U	0.43	0.767	SMRD-33A-GW033111	Sr-90	Filtered	-0.023 U	0.04	0.14
RD-33A	RD-33A_011911_01	Sr-90	Particulate	0.038 U	0.32	0.598	SMRD-33A-GW033111	Sr-90	Suspended	0.001 U	0.018	0.063
RD-33A	RD-33A_011911_01	H-3	Total	42.4 U	190	319	SMRD-33A-GW033111	H-3	Total	-9 U	42	140
RD-33A	RD-33A_011911_01	U-233/234	Dissolved	1.64	0.24	0.092	SMRD-33A-GW033111	U-233/234	Filtered	1.92	0.1	0.01
RD-33A	RD-33A_011911_01	U-233/234	Particulate	0.023 U	0.031	0.074	SMRD-33A-GW033111	U-233/234	Suspended	0.0083	0.0063	0.0057
RD-33A	RD-33A_011911_01	U-235/236	Dissolved	0.01 U	0.02	0.077	SMRD-33A-GW033111	U-235/236	Filtered	0.071	0.013	0.006
RD-33A	RD-33A_011911_01	U-235/236	Particulate	0.009 U	0.019	0.071	SMRD-33A-GW033111	U-235/236	Suspended	-0.0021 U	0.0021	0.017
RD-33A	RD-33A_011911_01	U-238	Dissolved	1.07	0.19	0.064	SMRD-33A-GW033111	U-238	Filtered	1.17	0.068	0.005
RD-33A	RD-33A_011911_01	U-238	Particulate	0 U	0.015	0.059	SMRD-33A-GW033111	U-238	Suspended	0.0052 K	0.0058	0.014
RD-33B	RD-33B_011311_01	Sb-125	Dissolved	2.03 U	5.4	9.25	SMRD-33B-GW032211	Sb-125	Filtered	0.67 U	0.98	3.3
RD-33B	RD-33B_011311_01	Sb-125	Particulate	-0.445 U	2.8	5.04	SMRD-33B-GW032211	Sb-125	Suspended	0.36 U	0.41	1.4
RD-33B	RD-33B_011311_01	Cs-134	Dissolved	1.32 U	3.7	6.37	SMRD-33B-GW032211	Cs-134	Filtered	0.38 U	0.27	1.3
RD-33B	RD-33B_011311_01	Cs-134	Particulate	-0.769 U	1.9	3.38	SMRD-33B-GW032211	Cs-134	Suspended	0.23 U	0.17	0.62
RD-33B	RD-33B_011311_01	Cs-137	Dissolved	-0.883 U	2.9	5.15	SMRD-33B-GW032211	Cs-137	Filtered	0.12 U	0.3	1
RD-33B	RD-33B_011311_01	Cs-137	Particulate	-0.276 U	1.4	2.55	SMRD-33B-GW032211	Cs-137	Suspended	-0.06 U	0.17	0.58
RD-33B	RD-33B_011311_01	Co-60	Dissolved	-1.15 U	2.1	3.95	SMRD-33B-GW032211	Co-60	Filtered	-0.13 U	0.4	1.4
RD-33B	RD-33B_011311_01	Co-60	Particulate	-0.512 U	1.4	2.69	SMRD-33B-GW032211	Co-60	Suspended	0.08 U	0.17	0.59
RD-33B	RD-33B_011311_01	Eu-152	Dissolved	-2.63 U	7.7	13.5	SMRD-33B-GW032211	Eu-152	Filtered	-0.32 U	0.9	3.1
RD-33B	RD-33B_011311_01	Eu-152	Particulate	-0.582 U	4.1	7.13	SMRD-33B-GW032211	Eu-152	Suspended	0.31 U	0.33	1.1
RD-33B	RD-33B_011311_01	Eu-154	Dissolved	2.2 U	8.5	14.8	SMRD-33B-GW032211	Eu-154	Filtered	0.46 U	0.65	6.6
RD-33B	RD-33B_011311_01	Eu-154	Particulate	0.117 U	4.2	7.6	SMRD-33B-GW032211	Eu-154	Suspended	0.013 U	0.068	3.2
RD-33B	RD-33B_011311_01	Eu-155	Dissolved	-4.49 U	8.6	14.8	SMRD-33B-GW032211	Eu-155	Filtered	-0.86 U	0.98	3.3
RD-33B	RD-33B_011311_01	Eu-155	Particulate	1.46 U	4.3	7.26	SMRD-33B-GW032211	Eu-155	Suspended	0.28 U	0.3	0.99
RD-33B	RD-33B_011311_01	gross_alpha	Dissolved	1.33 U	0.97	1.66	SMRD-33B-GW032211	gross_alpha	Filtered	2.19	0.31	0.54
RD-33B	RD-33B_011311_01	gross_alpha	Particulate	0.564 U	0.51	0.757	SMRD-33B-GW032211	gross_alpha	Suspended	0.23 U	0.14	0.47
RD-33B	RD-33B_011311_01	gross_beta	Dissolved	5.18	1.2	1.77	SMRD-33B-GW032211	gross_beta	Filtered	6.27	0.997	2.5
RD-33B	RD-33B_011311_01	gross_beta	Particulate	0.213 U	1.1	1.88	SMRD-33B-GW032211	gross_beta	Suspended	1.22	0.28	0.77
RD-33B	RD-33B_011311_01	K-40	Dissolved	14.4 U	44	76.3	SMRD-33B-GW032211	K-40	Filtered	-5.3 U	8	17

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33B	RD-33B_011311_01	K-40	Particulate	-3.21 U	29	50.4	SMRD-33B-GW032211	K-40	Suspended	1 U	2.5	8
RD-33B	RD-33B_011311_01	Na-22	Dissolved	0.746 U	2.9	5.02	SMRD-33B-GW032211	Na-22	Filtered	0.09 U	0.39	1.4
RD-33B	RD-33B_011311_01	Na-22	Particulate	0.04 U	1.4	2.57	SMRD-33B-GW032211	Na-22	Suspended	0.02 U	0.18	0.63
RD-33B	RD-33B_011311_01	Sr-90	Dissolved	-0.008 U	0.35	0.663	SMRD-33B-GW032211	Sr-90	Filtered	0.017 U	0.03	0.1
RD-33B	RD-33B_011311_01	Sr-90	Particulate	-0.024 U	0.34	0.668	SMRD-33B-GW032211	Sr-90	Suspended	0.035 U	0.02	0.067
RD-33B	RD-33B_011311_01	H-3	Total	0 U	170	291	SMRD-33B-GW032211	H-3	Total	32 U	41	140
RD-33B	RD-33B_011311_01	U-233/234	Dissolved	0.171 J	0.086	0.082	SMRD-33B-GW032211	U-233/234	Filtered	0.042	0.01	0.013
RD-33B	RD-33B_011311_01	U-233/234	Particulate	0.026 U	0.035	0.083	SMRD-33B-GW032211	U-233/234	Suspended	0.0128	0.0074	0.017
RD-33B	RD-33B_011311_01	U-235/236	Dissolved	0 U	0.021	0.079	SMRD-33B-GW032211	U-235/236	Filtered	0.0073	0.0042	0.0066
RD-33B	RD-33B_011311_01	U-235/236	Particulate	0 U	0.021	0.08	SMRD-33B-GW032211	U-235/236	Suspended	0 U	0.0018	0.006
RD-33B	RD-33B_011311_01	U-238	Dissolved	0.103 J	0.069	0.065	SMRD-33B-GW032211	U-238	Filtered	0.0111	0.0069	0.016
RD-33B	RD-33B_011311_01	U-238	Particulate	0 U	0.017	0.066	SMRD-33B-GW032211	U-238	Suspended	0.0035 U	0.0044	0.0048
RD-33C	RD-33C_012511_01	Sb-125	Dissolved	-0.365 U	2.7	4.74	SMRD-33C-GW032211	Sb-125	Filtered	-0.8 U	4.7	16
RD-33C	RD-33C_012511_01	Sb-125	Particulate	-0.253 U	6.2	10.6	SMRD-33C-GW032211	Sb-125	Suspended	1.4 U	1.6	5.4
RD-33C	RD-33C_012511_01	Cs-134	Dissolved	0.156 U	1.9	3.36	SMRD-33C-GW032211	Cs-134	Filtered	-0.55 U	0.52	1.7
RD-33C	RD-33C_012511_01	Cs-134	Particulate	1.16 U	3.2	5.51	SMRD-33C-GW032211	Cs-134	Suspended	-0.09 U	0.23	0.77
RD-33C	RD-33C_012511_01	Cs-137	Dissolved	-0.662 U	1.4	2.55	SMRD-33C-GW032211	Cs-137	Filtered	-0.45 U	0.48	1.6
RD-33C	RD-33C_012511_01	Cs-137	Particulate	0.263 U	2	3.54	SMRD-33C-GW032211	Cs-137	Suspended	-0.02 U	0.18	0.62
RD-33C	RD-33C_012511_01	Co-60	Dissolved	-0.414 U	2.5	4.44	SMRD-33C-GW032211	Co-60	Filtered	0.07 U	0.44	1.6
RD-33C	RD-33C_012511_01	Co-60	Particulate	0.469 U	2.5	4.41	SMRD-33C-GW032211	Co-60	Suspended	-0.1 U	0.19	0.68
RD-33C	RD-33C_012511_01	Eu-152	Dissolved	7.94 J	8.5	5.9	SMRD-33C-GW032211	Eu-152	Filtered	0.4 U	0.92	3.2
RD-33C	RD-33C_012511_01	Eu-152	Particulate	0.667 U	1.6	6.23	SMRD-33C-GW032211	Eu-152	Suspended	-0.08 U	0.51	1.7
RD-33C	RD-33C_012511_01	Eu-154	Dissolved	1.5 U	4.2	7.25	SMRD-33C-GW032211	Eu-154	Filtered	-0.06 U	3.6	13
RD-33C	RD-33C_012511_01	Eu-154	Particulate	1.9 U	6.1	10.6	SMRD-33C-GW032211	Eu-154	Suspended	-2 U	1.9	6.5
RD-33C	RD-33C_012511_01	Eu-155	Dissolved	-2.83 U	4.7	8.07	SMRD-33C-GW032211	Eu-155	Filtered	0.5 U	1.2	4
RD-33C	RD-33C_012511_01	Eu-155	Particulate	-3.23 U	5.2	8.93	SMRD-33C-GW032211	Eu-155	Suspended	0.29 U	0.34	1.1
RD-33C	RD-33C_012511_01	gross_alpha	Dissolved	3.54 J	1.3	1.49	SMRD-33C-GW032211	gross_alpha	Filtered	2.02	0.29	0.38
RD-33C	RD-33C_012511_01	gross_alpha	Particulate	0.095 U	0.31	0.565	SMRD-33C-GW032211	gross_alpha	Suspended	0.35	0.14	0.38
RD-33C	RD-33C_012511_01	gross_beta	Dissolved	6.38 J	1.2	1.72	SMRD-33C-GW032211	gross_beta	Filtered	4.23	0.83	2.2

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-33C	RD-33C_012511_01	gross_beta	Particulate	1.3 U	1.1	1.82	SMRD-33C-GW032211	gross_beta	Suspended	0.7	0.31	0.99
RD-33C	RD-33C_012511_01	K-40	Dissolved	18.8 U	21	34.9	SMRD-33C-GW032211	K-40	Filtered	-3.4 U	7.4	24
RD-33C	RD-33C_012511_01	K-40	Particulate	11.9 U	23	39.4	SMRD-33C-GW032211	K-40	Suspended	5.8	3.6	10
RD-33C	RD-33C_012511_01	Na-22	Dissolved	0.508 U	1.4	2.46	SMRD-33C-GW032211	Na-22	Filtered	-0.16 U	0.43	1.5
RD-33C	RD-33C_012511_01	Na-22	Particulate	0.642 U	2.1	3.6	SMRD-33C-GW032211	Na-22	Suspended	0.07 U	0.21	0.74
RD-33C	RD-33C_012511_01	Sr-90	Dissolved	-0.32 U	0.27	0.593	SMRD-33C-GW032211	Sr-90	Filtered	0.01 U	0.018	0.061
RD-33C	RD-33C_012511_01	Sr-90	Particulate	-0.109 U	0.29	0.57	SMRD-33C-GW032211	Sr-90	Suspended	0.015 U	0.036	0.12
RD-33C	RD-33C_012511_01	H-3		-50.2 U	170	303	SMRD-33C-GW032211	H-3	Total	47 U	45	150
RD-33C	RD-33C_012511_01	U-233/234	Dissolved	0.188 J	0.082	0.078	SMRD-33C-GW032211	U-233/234	Filtered	0.209	0.022	0.005
RD-33C	RD-33C_012511_01	U-233/234	Particulate	0 U	0.036	0.099	SMRD-33C-GW032211	U-233/234	Suspended	-0.0211 LU	0.0079	0.038
RD-33C	RD-33C_012511_01	U-235/236	Dissolved	0.03 U	0.04	0.076	SMRD-33C-GW032211	U-235/236	Filtered	0.0024 U	0.0024	0.0065
RD-33C	RD-33C_012511_01	U-235/236	Particulate	0 U	0.022	0.083	SMRD-33C-GW032211	U-235/236	Suspended	0 U	0.0039	0.013
RD-33C	RD-33C_012511_01	U-238	Dissolved	0.065 J	0.049	0.063	SMRD-33C-GW032211	U-238	Filtered	0.116	0.016	0.005
RD-33C	RD-33C_012511_01	U-238	Particulate	0.036 U	0.054	0.085	SMRD-33C-GW032211	U-238	Suspended	0.0052 U	0.0088	0.011
RD-34A	RD-34A_012611_01	Sb-125	Dissolved	1.1 U	2.9	4.93	SMRD34AGW032311	Sb-125	Filtered	-1.7 U	3.7	13
RD-34A	RD-34A_012611_01	Sb-125	Particulate	3.16 U	6.8	11.5	SMRD34AGW032311	Sb-125	Suspended	-0.4 U	1.7	5.7
RD-34A	RD-34A_012611_01	Cs-134	Dissolved	-0.693 U	1.1	2.02	SMRD34AGW032311	Cs-134	Filtered	-0.35 U	0.36	1.2
RD-34A	RD-34A_012611_01	Cs-134	Particulate	0.673 U	2.1	3.67	SMRD34AGW032311	Cs-134	Suspended	-0.14 U	0.23	0.78
RD-34A	RD-34A_012611_01	Cs-137	Dissolved	0.507 U	1.1	1.89	SMRD34AGW032311	Cs-137	Filtered	0.09 U	0.34	1.2
RD-34A	RD-34A_012611_01	Cs-137	Particulate	-0.624 U	2.5	4.43	SMRD34AGW032311	Cs-137	Suspended	0.1 U	0.21	0.72
RD-34A	RD-34A_012611_01	Co-60	Dissolved	-0.711 U	1.1	2.09	SMRD34AGW032311	Co-60	Filtered	-0.23 U	0.37	1.3
RD-34A	RD-34A_012611_01	Co-60	Particulate	-0.461 U	1.7	3.18	SMRD34AGW032311	Co-60	Suspended	0 U	0.28	1
RD-34A	RD-34A_012611_01	Eu-152	Dissolved	0.81 U	1.3	3.99	SMRD34AGW032311	Eu-152	Filtered	-0.9 U	0.74	2.5
RD-34A	RD-34A_012611_01	Eu-152	Particulate	-1.01 U	6.6	11.5	SMRD34AGW032311	Eu-152	Suspended	0.03 U	0.48	1.7
RD-34A	RD-34A_012611_01	Eu-154	Dissolved	0.63 U	2.6	4.63	SMRD34AGW032311	Eu-154	Filtered	-0.3 U	2.7	9.4
RD-34A	RD-34A_012611_01	Eu-154	Particulate	-2.8 U	5.6	10.8	SMRD34AGW032311	Eu-154	Suspended	0.002 U	1.5	5.3
RD-34A	RD-34A_012611_01	Eu-155	Dissolved	2.6 U	5	8.54	SMRD34AGW032311	Eu-155	Filtered	-0.36 U	0.92	3.1
RD-34A	RD-34A_012611_01	Eu-155	Particulate	-1.45 U	5.8	10.1	SMRD34AGW032311	Eu-155	Suspended	0.31 U	0.44	1.5
RD-34A	RD-34A_012611_01	gross_alpha	Dissolved	13.3	3.3	3.08	SMRD34AGW032311	gross_alpha	Filtered	20.2 J	1.4	0.4

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34A	RD-34A_012611_01	gross_alpha	Particulate	20	2.4	1.1	SMRD34AGW032311	gross_alpha	Suspended	0.64	0.19	0.46
RD-34A	RD-34A_012611_01	gross_beta	Dissolved	8.48	2.3	3.26	SMRD34AGW032311	gross_beta	Filtered	1.34	0.31	0.87
RD-34A	RD-34A_012611_01	gross_beta	Particulate	20	2.6	3.19	SMRD34AGW032311	gross_beta	Suspended	14.6	1.1	1.4
RD-34A	RD-34A_012611_01	K-40	Dissolved	12.5 U	15	24.8	SMRD34AGW032311	K-40	Filtered	12.9	5	16
RD-34A	RD-34A_012611_01	K-40	Particulate	-7 U	41	72.4	SMRD34AGW032311	K-40	Suspended	2 U	2.5	10
RD-34A	RD-34A_012611_01	Na-22	Dissolved	0.214 U	0.88	1.57	SMRD34AGW032311	Na-22	Filtered	-0.13 U	0.35	1.2
RD-34A	RD-34A_012611_01	Na-22	Particulate	-0.948 U	1.9	3.66	SMRD34AGW032311	Na-22	Suspended	-0.15 U	0.26	0.91
RD-34A	RD-34A_012611_01	Sr-90	Dissolved	-0.084 U	0.16	0.286	SMRD34AGW032311	Sr-90	Filtered	0.163	0.036	0.11
RD-34A	RD-34A_012611_01	Sr-90	Particulate	-0.091 U	0.17	0.305	SMRD34AGW032311	Sr-90	Suspended	0 U	0.02	0.08
RD-34A	RD-34A_012611_01	H-3	Total	793	210	295	SMRD34AGW032311	H-3_Total	Total	342	36	89
RD-34A	RD-34A_012611_01	U-233/234	Dissolved	8.49	0.47	0.078	SMRD34AGW032311	U-233/234	Filtered	10.4	0.47	0.02
RD-34A	RD-34A_012611_01	U-233/234	Particulate	0.088 J	0.042	0.046	SMRD34AGW032311	U-233/234	Suspended	0.09	0.03	0.04
RD-34A	RD-34A_012611_01	U-235/236	Dissolved	0.464 J	0.1	0.038	SMRD34AGW032311	U-235/236	Filtered	0.52	0.05	0.01
RD-34A	RD-34A_012611_01	U-235/236	Particulate	0.005 U	0.01	0.039	SMRD34AGW032311	U-235/236	Suspended	0 U	0	0.05
RD-34A	RD-34A_012611_01	U-238	Dissolved	9.05	0.48	0.072	SMRD34AGW032311	U-238	Filtered	11	0.49	0.01
RD-34A	RD-34A_012611_01	U-238	Particulate	0.138 J	0.05	0.032	SMRD34AGW032311	U-238	Suspended	0.09	0.03	0.04
RD-34B	RD-34B_012511_01	Sb-125	Dissolved	0.565 U	6.6	11.4	SMRD-34B-GW031811	Sb-125	Filtered	3.1 U	4.3	14
RD-34B	RD-34B_012511_01	Sb-125	Particulate	-1.04 U	4.3	7.54	SMRD-34B-GW031811	Sb-125	Suspended	-0.5 U	1.6	5.5
RD-34B	RD-34B_012511_01	Cs-134	Dissolved	1.47 U	4	6.87	SMRD-34B-GW031811	Cs-134	Filtered	0.21 U	0.44	1.5
RD-34B	RD-34B_012511_01	Cs-134	Particulate	-0.227 U	1.4	2.53	SMRD-34B-GW031811	Cs-134	Suspended	-0.33 U	0.24	0.79
RD-34B	RD-34B_012511_01	Cs-137	Dissolved	-0.581 U	2.1	3.84	SMRD-34B-GW031811	Cs-137	Filtered	-0.07 U	0.41	1.4
RD-34B	RD-34B_012511_01	Cs-137	Particulate	-0.174 U	2.3	3.94	SMRD-34B-GW031811	Cs-137	Suspended	0 U	0.25	0.85
RD-34B	RD-34B_012511_01	Co-60	Dissolved	-0.394 U	2.1	3.9	SMRD-34B-GW031811	Co-60	Filtered	-0.77 U	0.54	1.8
RD-34B	RD-34B_012511_01	Co-60	Particulate	0.128 U	1.3	2.36	SMRD-34B-GW031811	Co-60	Suspended	-0.07 U	0.18	0.63
RD-34B	RD-34B_012511_01	Eu-152	Dissolved	-3.45 U	7.7	13.6	SMRD-34B-GW031811	Eu-152	Filtered	1 U	1.2	4.1
RD-34B	RD-34B_012511_01	Eu-152	Particulate	-2.3 U	2.8	6.97	SMRD-34B-GW031811	Eu-152	Suspended	-0.43 U	0.55	1.8
RD-34B	RD-34B_012511_01	Eu-154	Dissolved	-0.276 U	6.4	11.7	SMRD-34B-GW031811	Eu-154	Filtered	-0.5 U	3.6	13
RD-34B	RD-34B_012511_01	Eu-154	Particulate	-1.56 U	4.9	8.92	SMRD-34B-GW031811	Eu-154	Suspended	-1.1 U	1.8	6.2
RD-34B	RD-34B_012511_01	Eu-155	Dissolved	-3.84 U	8.8	15.1	SMRD-34B-GW031811	Eu-155	Filtered	1.2 U	1.2	4

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34B	RD-34B_012511_01	Eu-155	Particulate	-4.08 U	6.3	10.8	SMRD-34B-GW031811	Eu-155	Suspended	0.3 U	0.36	1.2
RD-34B	RD-34B_012511_01	gross_alpha	Dissolved	4.94	1.6	2.01	SMRD-34B-GW031811	gross_alpha	Filtered	3.49 L	0.39	0.48
RD-34B	RD-34B_012511_01	gross_alpha	Particulate	0.456 U	0.41	0.587	SMRD-34B-GW031811	gross_alpha	Suspended	0.18 U	0.12	0.41
RD-34B	RD-34B_012511_01	gross_beta	Dissolved	6.04	1.2	1.64	SMRD-34B-GW031811	gross_beta	Filtered	5.56	0.99	2.5
RD-34B	RD-34B_012511_01	gross_beta	Particulate	0.485 U	1	1.7	SMRD-34B-GW031811	gross_beta	Suspended	-1.12 R	0.29	1.2
RD-34B	RD-34B_012511_01	K-40	Dissolved	8.86 U	43	74.7	SMRD-34B-GW031811	K-40	Filtered	-30 U	130	20
RD-34B	RD-34B_012511_01	K-40	Particulate	5.24 U	20	35.3	SMRD-34B-GW031811	K-40	Suspended	-1 U	4.4	13
RD-34B	RD-34B_012511_01	Na-22	Dissolved	-0.093 U	2.2	3.96	SMRD-34B-GW031811	Na-22	Filtered	-0.1 U	0.45	1.6
RD-34B	RD-34B_012511_01	Na-22	Particulate	-0.53 U	1.7	3.02	SMRD-34B-GW031811	Na-22	Suspended	-0.14 U	0.21	0.71
RD-34B	RD-34B_012511_01	Sr-90	Dissolved	-0.066 U	0.29	0.574	SMRD-34B-GW031811	Sr-90	Filtered	-0.114 LU	0.051	0.2
RD-34B	RD-34B_012511_01	Sr-90	Particulate	-0.112 U	0.25	0.516	SMRD-34B-GW031811	Sr-90	Suspended	-0.038 U	0.042	0.16
RD-34B	RD-34B_012511_01	H-3	Total	76.9 U	180	300	SMRD-34B-GW031811	H-3	Total	187	50	150
RD-34B	RD-34B_012511_01	U-233/234	Dissolved	1.87	0.45	0.206	SMRD-34B-GW031811	U-233/234	Filtered	1.23	0.072	0.014
RD-34B	RD-34B_012511_01	U-233/234	Particulate	0.014 U	0.028	0.067	SMRD-34B-GW031811	U-233/234	Suspended	0.0156	0.007	0.012
RD-34B	RD-34B_012511_01	U-235/236	Dissolved	0.104 U	0.1	0.199	SMRD-34B-GW031811	U-235/236	Filtered	0.044	0.011	0.017
RD-34B	RD-34B_012511_01	U-235/236	Particulate	0.009 U	0.017	0.065	SMRD-34B-GW031811	U-235/236	Suspended	0 U	0.0018	0.006
RD-34B	RD-34B_012511_01	U-238	Dissolved	1.59	0.4	0.206	SMRD-34B-GW031811	U-238	Filtered	0.987	0.061	0.014
RD-34B	RD-34B_012511_01	U-238	Particulate	0.007 U	0.028	0.067	SMRD-34B-GW031811	U-238	Suspended	0.0071	0.005	0.0048
RD-34C	RD-34C_012411_01	Sb-125	Dissolved	-0.482 U	6.8	11.8	SMRD-34C-GW032211	Sb-125	Filtered	-3.3 U	1.7857143	12
RD-34C	RD-34C_012411_01	Sb-125	Particulate	2.89 U	4.2	7.09	SMRD-34C-GW032211	Sb-125	Suspended	0.07 U	0.8673469	5.6
RD-34C	RD-34C_012411_01	Cs-134	Dissolved	0.86 U	3.3	5.71	SMRD-34C-GW032211	Cs-134	Filtered	-0.28 U	0.1836735	1.2
RD-34C	RD-34C_012411_01	Cs-134	Particulate	0.283 U	0.97	1.71	SMRD-34C-GW032211	Cs-134	Suspended	-0.02 U	0.0918367	0.62
RD-34C	RD-34C_012411_01	Cs-137	Dissolved	-0.124 U	2.5	4.47	SMRD-34C-GW032211	Cs-137	Filtered	-0.03 U	0.1734694	1.2
RD-34C	RD-34C_012411_01	Cs-137	Particulate	0.249 U	1	1.75	SMRD-34C-GW032211	Cs-137	Suspended	-0.11 U	0.1071429	0.71
RD-34C	RD-34C_012411_01	Co-60	Dissolved	1.76 U	2.1	3.46	SMRD-34C-GW032211	Co-60	Filtered	-0.12 U	0.1734694	1.2
RD-34C	RD-34C_012411_01	Co-60	Particulate	0.023 U	1.1	2	SMRD-34C-GW032211	Co-60	Suspended	0.16 U	0.1071429	0.73
RD-34C	RD-34C_012411_01	Eu-152	Dissolved	0.953 U	8.1	14	SMRD-34C-GW032211	Eu-152	Filtered	0.5 U	0.4897959	3.2
RD-34C	RD-34C_012411_01	Eu-152	Particulate	-3.7 U	4.4	7.69	SMRD-34C-GW032211	Eu-152	Suspended	0.12 U	0.2602041	1.7
RD-34C	RD-34C_012411_01	Eu-154	Dissolved	0.342 U	4.5	8.45	SMRD-34C-GW032211	Eu-154	Filtered	2.4 U	1.2244898	8.3

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-34C	RD-34C_012411_01	Eu-154	Particulate	0.77 U	2.3	4.04	SMRD-34C-GW032211	Eu-154	Suspended	-1.6 U	0.9183673	6
RD-34C	RD-34C_012411_01	Eu-155	Dissolved	2.89 U	7.9	13.5	SMRD-34C-GW032211	Eu-155	Filtered	0.32 U	0.4234694	2.8
RD-34C	RD-34C_012411_01	Eu-155	Particulate	3.58 U	3.8	6.3	SMRD-34C-GW032211	Eu-155	Suspended	0.23 U	0.1938776	1.3
RD-34C	RD-34C_012411_01	gross_alpha	Dissolved	2.43 J	1	1.2	SMRD-34C-GW032211	gross_alpha	Filtered	1.66	0.1377551	0.35
RD-34C	RD-34C_012411_01	gross_alpha	Particulate	0.056 U	0.25	0.463	SMRD-34C-GW032211	gross_alpha	Suspended	0.24	0.0612245	0.38
RD-34C	RD-34C_012411_01	gross_beta	Dissolved	5.1	1	1.41	SMRD-34C-GW032211	gross_beta	Filtered	3.88	0.372449	1.9
RD-34C	RD-34C_012411_01	gross_beta	Particulate	0.225 U	0.9	1.5	SMRD-34C-GW032211	gross_beta	Suspended	0.18 U	0.1326531	0.88
RD-34C	RD-34C_012411_01	K-40	Dissolved	-14.2 U	40	72.2	SMRD-34C-GW032211	K-40	Filtered	12.7	2.5510204	17
RD-34C	RD-34C_012411_01	K-40	Particulate	-6.92 U	16	28.4	SMRD-34C-GW032211	K-40	Suspended	3.3 U	1.6836735	12
RD-34C	RD-34C_012411_01	Na-22	Dissolved	0.116 U	1.5	2.85	SMRD-34C-GW032211	Na-22	Filtered	-0.32 U	0.1989796	1.3
RD-34C	RD-34C_012411_01	Na-22	Particulate	0.26 U	0.76	1.36	SMRD-34C-GW032211	Na-22	Suspended	0.1 U	0.1071429	0.72
RD-34C	RD-34C_012411_01	Sr-90	Dissolved	-0.116 U	0.27	0.558	SMRD-34C-GW083010	Sr-90	Filtered	-0.008 U	0.025	0.18
RD-34C	RD-34C_012411_01	Sr-90	Particulate	-0.004 U	0.29	0.551	SMRD-34C-GW032211	Sr-90	Suspended	0.01 U	0.0178571	0.12
RD-34C	RD-34C_012411_01	H-3	Total	-19 U	180	319	SMRD-34C-GW032211	H-3	Total	132	24.489796	150
RD-34C	RD-34C_012411_01	U-233/234	Dissolved	0.157 J	0.079	0.087	SMRD-34C-GW032211	U-233/234	Filtered	0.253	0.0132653	0.018
RD-34C	RD-34C_012411_01	U-233/234	Particulate	-0.007 U	0.013	0.064	SMRD-34C-GW032211	U-233/234	Suspended	-0.0099 U	0.0046939	0.033
RD-34C	RD-34C_012411_01	U-235/236	Dissolved	0.009 U	0.019	0.073	SMRD-34C-GW032211	U-235/236	Filtered	0.0053 U	0.0018878	0.0071
RD-34C	RD-34C_012411_01	U-235/236	Particulate	-0.008 U	0.016	0.061	SMRD-34C-GW032211	U-235/236	Suspended	0 U	0.0020408	0.013
RD-34C	RD-34C_012411_01	U-238	Dissolved	0.063 J	0.047	0.06	SMRD-34C-GW032211	U-238	Filtered	0.092	0.0076531	0.006
RD-34C	RD-34C_012411_01	U-238	Particulate	-0.007 U	0.013	0.051	SMRD-34C-GW032211	U-238	Suspended	-0.0065 U	0.0029082	0.011
RD-50	RD-50_011911_01	Sb-125	Dissolved	-0.16 U	3.5	6.08	SMRD-50-GW033111	Sb-125	Filtered	-2 U	3.9	13
RD-50	RD-50_011911_01	Sb-125	Particulate	1.5 U	4.2	7.29	SMRD-50-GW033111	Sb-125	Suspended	-1.1 U	1.7	5.6
RD-50	RD-50_011911_01	Cs-134	Dissolved	-0.466 U	2.1	3.7	SMRD-50-GW033111	Cs-134	Filtered	0.14 U	0.36	1.2
RD-50	RD-50_011911_01	Cs-134	Particulate	-1.11 U	2.6	4.55	SMRD-50-GW033111	Cs-134	Suspended	0.08 U	0.17	0.6
RD-50	RD-50_011911_01	Cs-137	Dissolved	-0.557 U	1.6	2.76	SMRD-50-GW033111	Cs-137	Filtered	0.39 U	0.29	0.95
RD-50	RD-50_011911_01	Cs-137	Particulate	2.41 U	2.6	4.28	SMRD-50-GW033111	Cs-137	Suspended	0.33	0.21	0.69
RD-50	RD-50_011911_01	Co-60	Dissolved	1.2 U	1.6	2.73	SMRD-50-GW033111	Co-60	Filtered	0.11 U	0.36	1.2
RD-50	RD-50_011911_01	Co-60	Particulate	-1.68 U	3	5.42	SMRD-50-GW033111	Co-60	Suspended	-0.05 U	0.22	0.77
RD-50	RD-50_011911_01	Eu-152	Dissolved	-6.1 U	16	27.4	SMRD-50-GW033111	Eu-152	Filtered	0.02 U	0.85	2.9

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-50	RD-50_011911_01	Eu-152	Particulate	0.727 U	1.1	6.52	SMRD-50-GW033111	Eu-152	Suspended	-0.45 U	0.56	1.9
RD-50	RD-50_011911_01	Eu-154	Dissolved	-0.529 U	4.8	8.54	SMRD-50-GW033111	Eu-154	Filtered	1.4 U	2.5	8.7
RD-50	RD-50_011911_01	Eu-154	Particulate	-2.76 U	6	11	SMRD-50-GW033111	Eu-154	Suspended	0.8 U	1.8	6.2
RD-50	RD-50_011911_01	Eu-155	Dissolved	-1.53 U	5.5	9.46	SMRD-50-GW033111	Eu-155	Filtered	0.8 U	0.95	3.2
RD-50	RD-50_011911_01	Eu-155	Particulate	-1.01 U	4.9	8.48	SMRD-50-GW033111	Eu-155	Suspended	0.03 U	0.36	1.2
RD-50	RD-50_011911_01	gross_alpha	Dissolved	5.11	0.7	0.509	SMRD-50-GW040111	gross_alpha	Filtered	21.4	1.2	0.7
RD-50	RD-50_011911_01	gross_alpha	Particulate	0.014 U	0.22	0.403	SMRD-50-GW040111	gross_alpha	Suspended	-0.14 U	0.23	0.95
RD-50	RD-50_011911_01	gross_beta	Dissolved	7.31	0.93	1.13	SMRD-50-GW040111	gross_beta	Filtered	6.3	1.1	2.9
RD-50	RD-50_011911_01	gross_beta	Particulate	0.436 U	0.72	1.18	SMRD-50-GW040111	gross_beta	Suspended	0.18 U	0.24	0.8
RD-50	RD-50_011911_01	K-40	Dissolved	-9.55 U	25	43.7	SMRD-50-GW033111	K-40	Filtered	-3.9 U	6.5	18
RD-50	RD-50_011911_01	K-40	Particulate	-0.243 U	24	41.7	SMRD-50-GW033111	K-40	Suspended	2.9 U	2.9	9.9
RD-50	RD-50_011911_01	Na-22	Dissolved	-0.179 U	1.6	2.89	SMRD-50-GW033111	Na-22	Filtered	0.27 U	0.32	1.1
RD-50	RD-50_011911_01	Na-22	Particulate	-0.936 U	2	3.71	SMRD-50-GW033111	Na-22	Suspended	0.12 U	0.22	0.75
RD-50	RD-50_011911_01	Sr-90	Dissolved	0.18 U	0.29	0.538	SMRD-50-GW033111	Sr-90	Filtered	0.064 U	0.039	0.13
RD-50	RD-50_011911_01	Sr-90	Particulate	-0.02 U	0.3	0.581	SMRD-50-GW033111	Sr-90	Suspended	0.019 U	0.016	0.054
RD-50	RD-50_011911_01	H-3	Total	87.1 U	190	328	SMRD-50-GW040111	H-3	Total	46 U	40	130
RD-50	RD-50_011911_01	U-233/234	Dissolved	12.7	0.74	0.108	SMRD-50-GW033111	U-233/234	Filtered	12.1	0.53	0.02
RD-50	RD-50_011911_01	U-233/234	Particulate	0.02 U	0.027	0.065	SMRD-50-GW033111	U-233/234	Suspended	-0.0021 U	0.0048	0.014
RD-50	RD-50_011911_01	U-235/236	Dissolved	0.607 J	0.13	0.054	SMRD-50-GW033111	U-235/236	Filtered	0.489	0.041	0.007
RD-50	RD-50_011911_01	U-235/236	Particulate	0 U	0.017	0.063	SMRD-50-GW033111	U-235/236	Suspended	0.0051 U	0.0036	0.0069
RD-50	RD-50_011911_01	U-238	Dissolved	10	0.63	0.103	SMRD-50-GW033111	U-238	Filtered	9.32	0.42	0.006
RD-50	RD-50_011911_01	U-238	Particulate	0.027 U	0.027	0.052	SMRD-50-GW033111	U-238	Suspended	0.0084 K	0.0058	0.0055
RD-57	RD-57_011911_01	Sb-125	Dissolved	-4.38 U	4.9	8.64	SMRD-57-GW033111	Sb-125	Filtered	-1.6 U	4	13
RD-57	RD-57_011911_01	Sb-125	Particulate	0.458 U	4.2	7.34	SMRD-57-GW033111	Sb-125	Suspended	0.08 U	1.6	5.5
RD-57	RD-57_011911_01	Cs-134	Dissolved	0.497 U	1.9	3.33	SMRD-57-GW033111	Cs-134	Filtered	-0.44 U	0.41	1.4
RD-57	RD-57_011911_01	Cs-134	Particulate	0.693 U	1.8	3.16	SMRD-57-GW033111	Cs-134	Suspended	-0.22 U	0.25	0.85
RD-57	RD-57_011911_01	Cs-137	Dissolved	0.635 U	1.4	2.37	SMRD-57-GW033111	Cs-137	Filtered	-0.15 U	0.32	1.1
RD-57	RD-57_011911_01	Cs-137	Particulate	-0.58 U	2	3.5	SMRD-57-GW033111	Cs-137	Suspended	-0.14 U	0.22	0.75
RD-57	RD-57_011911_01	Co-60	Dissolved	0.91 U	1.4	2.31	SMRD-57-GW033111	Co-60	Filtered	0.23 U	0.39	1.4

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-57	RD-57_011911_01	Co-60	Particulate	-0.415 U	1.3	2.45	SMRD-57-GW033111	Co-60	Suspended	0.12 U	0.22	0.77
RD-57	RD-57_011911_01	Eu-152	Dissolved	-2.86 U	6.1	10.6	SMRD-57-GW033111	Eu-152	Filtered	-0.5 U	1	3.4
RD-57	RD-57_011911_01	Eu-152	Particulate	-5.52 U	6.8	11.9	SMRD-57-GW033111	Eu-152	Suspended	-0.05 U	0.57	2
RD-57	RD-57_011911_01	Eu-154	Dissolved	1.39 U	4.2	7.31	SMRD-57-GW033111	Eu-154	Filtered	2 U	2.8	9.6
RD-57	RD-57_011911_01	Eu-154	Particulate	-1.6 U	5.4	9.81	SMRD-57-GW033111	Eu-154	Suspended	1.7 U	1.6	5.2
RD-57	RD-57_011911_01	Eu-155	Dissolved	-1.14 U	4.9	8.37	SMRD-57-GW033111	Eu-155	Filtered	0.95 U	0.97	3.2
RD-57	RD-57_011911_01	Eu-155	Particulate	-0.945 U	4.7	8.12	SMRD-57-GW033111	Eu-155	Suspended	0.38 U	0.42	1.4
RD-57	RD-57_011911_01	gross_alpha	Dissolved	5.08	1.5	1.52	SMRD-57-GW040111	gross_alpha	Filtered	6.26	0.51	0.48
RD-57	RD-57_011911_01	gross_alpha	Particulate	-0.166 U	0.27	0.535	SMRD-57-GW040111	gross_alpha	Suspended	0.02 U	0.14	0.54
RD-57	RD-57_011911_01	gross_beta	Dissolved	4.29	0.94	1.33	SMRD-57-GW033111	gross_beta	Filtered	4.24	0.87	2.3
RD-57	RD-57_011911_01	gross_beta	Particulate	-0.506 U	0.71	1.21	SMRD-57-GW033111	gross_beta	Suspended	0.67	0.27	0.84
RD-57	RD-57_011911_01	K-40	Dissolved	-13.9 U	24	42.7	SMRD-57-GW033111	K-40	Filtered	-4.9 U	7.1	18
RD-57	RD-57_011911_01	K-40	Particulate	-5.1 U	15	27.7	SMRD-57-GW033111	K-40	Suspended	4.9	2.7	10
RD-57	RD-57_011911_01	Na-22	Dissolved	0.472 U	1.4	2.48	SMRD-57-GW033111	Na-22	Filtered	-0.07 U	0.38	1.3
RD-57	RD-57_011911_01	Na-22	Particulate	-0.54 U	1.8	3.32	SMRD-57-GW033111	Na-22	Suspended	0.03 U	0.24	0.85
RD-57	RD-57_011911_01	Sr-90	Dissolved	-0.063 U	0.39	0.7	SMRD-57-GW040111	Sr-90	Suspended	-0.077 U	0.061	0.22
RD-57	RD-57_011911_01	Sr-90	Particulate	0.097 U	0.35	0.644	SMRD-57-GW040111	Sr-90	Filtered	-0.019 U	0.061	0.21
RD-57	RD-57_011911_01	H-3	Total	181 U	200	321	SMRD-57-GW040111	H-3	Total	47 U	36	120
RD-57	RD-57_011911_01	U-233/234	Dissolved	3.35	0.32	0.077	SMRD-57-GW033111	U-233/234	Filtered	4.46	0.21	0.01
RD-57	RD-57_011911_01	U-233/234	Particulate	0.007 U	0.027	0.065	SMRD-57-GW033111	U-233/234	Suspended	0.0046	0.0054	0.0051
RD-57	RD-57_011911_01	U-235/236	Dissolved	0.106 J	0.061	0.058	SMRD-57-GW033111	U-235/236	Filtered	0.133	0.019	0.007
RD-57	RD-57_011911_01	U-235/236	Particulate	-0.008 U	0.016	0.063	SMRD-57-GW033111	U-235/236	Suspended	0.0024 U	0.0024	0.0064
RD-57	RD-57_011911_01	U-238	Dissolved	2.46	0.27	0.06	SMRD-57-GW033111	U-238	Filtered	3.55	0.17	0.01
RD-57	RD-57_011911_01	U-238	Particulate	-0.007 U	0.014	0.052	SMRD-57-GW033111	U-238	Suspended	-0.0041 U	0.0027	0.0051
RD-59A	RD-59A_011211_01	Sb-125	Dissolved	0.401 U	2.2	3.83	SORD-59A-GW041811	Sb-125	Filtered	-1.6 U	15	4.5
RD-59A	RD-59A_011211_01	Sb-125	Particulate	-2.34 U	5.4	9.47	SORD-59A-GW041811	Sb-125	Suspended	-2 U	5.9	1.8
RD-59A	RD-59A_011211_01	Cs-134	Dissolved	-0.09 U	1	1.86	SORD-59A-GW041811	Cs-134	Filtered	0.13 U	0.46	1.6
RD-59A	RD-59A_011211_01	Cs-134	Particulate	-0.696 U	2.3	4.04	SORD-59A-GW041811	Cs-134	Suspended	-0.24 U	0.24	0.82
RD-59A	RD-59A_011211_01	Cs-137	Dissolved	0.196 U	1.2	2.09	SORD-59A-GW041811	Cs-137	Filtered	-0.4 U	0.46	1.6

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-59A	RD-59A_011211_01	Cs-137	Particulate	-0.055 U	2.3	3.89	SORD-59A-GW041811	Cs-137	Suspended	-0.004 U	0.22	0.77
RD-59A	RD-59A_011211_01	Co-60	Dissolved	-0.473 U	1.2	2.24	SORD-59A-GW041811	Co-60	Filtered	-0.03 U	0.48	1.7
RD-59A	RD-59A_011211_01	Co-60	Particulate	0.67 U	1.8	3.14	SORD-59A-GW041811	Co-60	Suspended	0.1 U	0.21	0.72
RD-59A	RD-59A_011211_01	Eu-152	Dissolved	0.338 U	5.2	8.94	SORD-59A-GW041811	Eu-152	Filtered	0.6 U	1.2	4
RD-59A	RD-59A_011211_01	Eu-152	Particulate	-15 U	19	32.8	SORD-59A-GW041811	Eu-152	Suspended	-0.04 U	0.56	1.9
RD-59A	RD-59A_011211_01	Eu-154	Dissolved	1.48 U	3.1	5.4	SORD-59A-GW041811	Eu-154	Filtered	-0.09 U	3.6	13
RD-59A	RD-59A_011211_01	Eu-154	Particulate	-2.93 U	4.7	8.64	SORD-59A-GW041811	Eu-154	Suspended	-0.002 U	1.5	5.3
RD-59A	RD-59A_011211_01	Eu-155	Dissolved	-1.41 U	3.5	6.13	SORD-59A-GW041811	Eu-155	Filtered	-0.05 U	1.1	3.7
RD-59A	RD-59A_011211_01	Eu-155	Particulate	2.43 U	6.4	10.8	SORD-59A-GW041811	Eu-155	Suspended	-0.28 U	0.39	1.3
RD-59A	RD-59A_011211_01	gross_alpha	Dissolved	0.801 U	1.2	2.26	SORD-59A-GW041811	gross_alpha	Filtered	4.01	0.52	0.82
RD-59A	RD-59A_011211_01	gross_alpha	Particulate	1.56 J	0.78	1.02	SORD-59A-GW041811	gross_alpha	Suspended	1.4	0.26	0.54
RD-59A	RD-59A_011211_01	gross_beta	Dissolved	3.78 J	1.6	2.54	SORD-59A-GW041811	gross_beta	Filtered	2.95	0.7	2
RD-59A	RD-59A_011211_01	gross_beta	Particulate	0.2 U	1.9	3.06	SORD-59A-GW041811	gross_beta	Suspended	0.84	0.31	0.96
RD-59A	RD-59A_011211_01	K-40	Dissolved	12.2 U	18	30.4	SORD-59A-GW041811	K-40	Filtered	13.6 U	7.5	22
RD-59A	RD-59A_011211_01	K-40	Particulate	14.1 U	26	44.5	SORD-59A-GW041811	K-40	Suspended	4.4	3.6	10
RD-59A	RD-59A_011211_01	Na-22	Dissolved	0.5 U	1	1.82	SORD-59A-GW041811	Na-22	Filtered	0.1 U	0.34	1.3
RD-59A	RD-59A_011211_01	Na-22	Particulate	-0.989 U	1.6	2.92	SORD-59A-GW041811	Na-22	Suspended	0.006 U	0.22	0.79
RD-59A	RD-59A_011211_01	Sr-90	Dissolved	-0.045 U	0.22	0.426	SORD-59A-GW041811	Sr-90	Filtered	0.005 U	0.025	0.085
RD-59A	RD-59A_011211_01	Sr-90	Particulate	0.091 U	0.32	0.612	SORD-59A-GW041811	Sr-90	Suspended	-0.002 U	0.019	0.065
RD-59A	RD-59A_011211_01	H-3	Total	-201 U	180	330	SORD-59A-GW041811	H-3	Total	110	46	150
RD-59A	RD-59A_011211_01	U-233/234	Dissolved	0.674 J	0.11	0.052	SORD-59A-GW041811	U-233/234	Filtered	0.922 U	0.06	0.018
RD-59A	RD-59A_011211_01	U-233/234	Particulate	-0.01 U	0.013	0.043	SORD-59A-GW041811	U-233/234	Suspended	-0.0034 U	0.0059	0.02
RD-59A	RD-59A_011211_01	U-235/236	Dissolved	0.021 U	0.031	0.049	SORD-59A-GW041811	U-235/236	Filtered	0.0355 U	0.01	0.0074
RD-59A	RD-59A_011211_01	U-235/236	Particulate	-0.008 U	0.008	0.038	SORD-59A-GW041811	U-235/236	Suspended	0.0052	0.0037	0.0071
RD-59A	RD-59A_011211_01	U-238	Dissolved	0.517 J	0.095	0.032	SORD-59A-GW041811	U-238	Filtered	0.607	0.045	0.015
RD-59A	RD-59A_011211_01	U-238	Particulate	0 U	0.013	0.031	SORD-59A-GW041811	U-238	Suspended	0.0107	0.0063	0.0057
RD-59B	RD-59B_011211_01	Sb-125	Dissolved	3.56 U	4.9	8.26	SORD-59B-GW041811	Sb-125	Filtered	-0.2 U	3.7	12
RD-59B	RD-59B_011211_01	Sb-125	Particulate	-0.305 U	3.6	6.32	SORD-59B-GW041811	Sb-125	Suspended	-0.1 U	1.1	3.8
RD-59B	RD-59B_011211_01	Co-60	Dissolved	1.41 U	1.9	3.3	SORD-59B-GW041811	Co-60	Filtered	0 U	0.55	1.9

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-59B	RD-59B_011211_01	Co-60	Particulate	-0.26 U	2.2	3.8	SORD-59B-GW041811	Co-60	Suspended	0.16 U	0.18	0.63
RD-59B	RD-59B_011211_01	Cs-134	Dissolved	0.761 U	2	3.54	SORD-59B-GW041811	Cs-134	Filtered	0.39 U	0.35	1.2
RD-59B	RD-59B_011211_01	Cs-134	Particulate	0.098 U	2.5	4.25	SORD-59B-GW041811	Cs-134	Suspended	0.17 U	0.18	0.61
RD-59B	RD-59B_011211_01	Cs-137	Dissolved	-0.067 U	1.5	2.79	SORD-59B-GW041811	Cs-137	Filtered	-0.12 U	0.36	1.2
RD-59B	RD-59B_011211_01	Cs-137	Particulate	-0.251 U	2	3.62	SORD-59B-GW041811	Cs-137	Suspended	0.34	0.22	0.72
RD-59B	RD-59B_011211_01	Eu-152	Dissolved	-0.117 U	8.6	14.9	SORD-59B-GW041811	Eu-152	Filtered	0.82 U	0.96	3.2
RD-59B	RD-59B_011211_01	Eu-152	Particulate	0.381 U	5.1	8.88	SORD-59B-GW041811	Eu-152	Suspended	-0.02 U	0.35	1.2
RD-59B	RD-59B_011211_01	Eu-154	Dissolved	0.682 U	4.6	8.47	SORD-59B-GW041811	Eu-154	Filtered	1.9 U	2.6	9
RD-59B	RD-59B_011211_01	Eu-154	Particulate	0.514 U	2.9	5.3	SORD-59B-GW041811	Eu-154	Suspended	0.2 U	1.6	5.6
RD-59B	RD-59B_011211_01	Eu-155	Dissolved	0.601 U	7.3	12.4	SORD-59B-GW041811	Eu-155	Filtered	-0.4 U	1	3.4
RD-59B	RD-59B_011211_01	Eu-155	Particulate	1.88 U	4.5	7.68	SORD-59B-GW041811	Eu-155	Suspended	0.17 U	0.31	1
RD-59B	RD-59B_011211_01	gross_alpha	Dissolved	2.35 J	1.1	1.29	SORD-59B-GW041811	gross_alpha	Filtered	2.19	0.28	0.42
RD-59B	RD-59B_011211_01	gross_alpha	Particulate	-0.056 U	0.43	0.954	SORD-59B-GW041811	gross_alpha	Suspended	0.05 U	0.14	0.52
RD-59B	RD-59B_011211_01	gross_beta	Dissolved	3.84 J	1.5	2.36	SORD-59B-GW041811	gross_beta	Filtered	1.69	0.41	1.2
RD-59B	RD-59B_011211_01	gross_beta	Particulate	-0.888 U	1.1	1.98	SORD-59B-GW041811	gross_beta	Suspended	0.37 U	0.25	0.82
RD-59B	RD-59B_011211_01	K-40	Dissolved	15.3 U	39	66.6	SORD-59B-GW041811	K-40	Filtered	-6.6 U	8.1	18
RD-59B	RD-59B_011211_01	K-40	Particulate	-17.2 U	27	48.6	SORD-59B-GW041811	K-40	Suspended	-3.8 U	5.2	10
RD-59B	RD-59B_011211_01	Na-22	Dissolved	0.23 U	1.6	2.86	SORD-59B-GW041811	Na-22	Filtered	0.002 U	0.36	1.3
RD-59B	RD-59B_011211_01	Na-22	Particulate	0.174 U	0.98	1.79	SORD-59B-GW041811	Na-22	Suspended	0.02 U	0.24	0.86
RD-59B	RD-59B_011211_01	Sr-90	Dissolved	-0.185 U	0.43	0.766	SORD-59B-GW041811	Sr-90	Filtered	-0.012 U	0.028	0.096
RD-59B	RD-59B_011211_01	Sr-90	Particulate	-0.284 U	0.36	0.705	SORD-59B-GW041811	Sr-90	Suspended	0.016 U	0.018	0.06
RD-59B	RD-59B_011211_01	H-3	Total	-175 U	180	330	SORD-59B-GW041811	H-3	Total	2 U	46	160
RD-59B	RD-59B_011211_01	U-233/234	Dissolved	0.259 J	0.058	0.043	SORD-59B-GW041811	U-233/234	Filtered	0.209	0.022	0.012
RD-59B	RD-59B_011211_01	U-233/234	Particulate	0.003 U	0.019	0.041	SORD-59B-GW041811	U-233/234	Suspended	0.009	0.0063	0.0053
RD-59B	RD-59B_011211_01	U-235/236	Dissolved	0.008 U	0.015	0.03	SORD-59B-GW041811	U-235/236	Filtered	0.0028 U	0.0037	0.015
RD-59B	RD-59B_011211_01	U-235/236	Particulate	-0.004 U	0.007	0.036	SORD-59B-GW041811	U-235/236	Suspended	0.0005 U	0.0031	0.016
RD-59B	RD-59B_011211_01	U-238	Dissolved	0.128 J	0.045	0.031	SORD-59B-GW041811	U-238	Filtered	0.135	0.017	0.005
RD-59B	RD-59B_011211_01	U-238	Particulate	0 U	0.012	0.03	SORD-59B-GW041811	U-238	Suspended	-0.0021 U	0.0034	0.0053
RD-59C	RD-59C_011211_01	Sb-125	Dissolved	-3.12 U	4.3	7.5	SORD-59C-GW041811	Sb-125	Filtered	4.2 U	3.9	13

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-59C	RD-59C_011211_01	Sb-125	Particulate	2.09 U	5.5	9.37	SORD-59C-GW041811	Sb-125	Suspended	1.1 U	1.7	5.6
RD-59C	RD-59C_011211_01	Co-60	Dissolved	0.121 U	1.4	2.46	SORD-59C-GW041811	Co-60	Filtered	0.03 U	0.37	1.3
RD-59C	RD-59C_011211_01	Co-60	Particulate	-1.78 U	1.8	3.3	SORD-59C-GW041811	Co-60	Suspended	0.26 U	0.2	0.66
RD-59C	RD-59C_011211_01	Cs-134	Dissolved	-0.759 U	1.5	2.69	SORD-59C-GW041811	Cs-134	Filtered	-0.51 U	0.41	1.4
RD-59C	RD-59C_011211_01	Cs-134	Particulate	0.474 U	1.5	2.58	SORD-59C-GW041811	Cs-134	Suspended	-0.13 U	0.22	0.75
RD-59C	RD-59C_011211_01	Cs-137	Dissolved	-0.457 U	0.93	1.76	SORD-59C-GW041811	Cs-137	Filtered	0.007 U	0.35	1.2
RD-59C	RD-59C_011211_01	Cs-137	Particulate	0.158 U	0.99	1.81	SORD-59C-GW041811	Cs-137	Suspended	0.27 U	0.21	0.7
RD-59C	RD-59C_011211_01	Eu-152	Dissolved	0.348 U	1.8	4.96	SORD-59C-GW041811	Eu-152	Filtered	0.83 U	0.95	3.2
RD-59C	RD-59C_011211_01	Eu-152	Particulate	0.692 U	1.4	5.73	SORD-59C-GW041811	Eu-152	Suspended	0.16 U	0.52	1.8
RD-59C	RD-59C_011211_01	Eu-154	Dissolved	-0.78 U	2.3	4.35	SORD-59C-GW041811	Eu-154	Filtered	-0.6 U	2.6	9.2
RD-59C	RD-59C_011211_01	Eu-154	Particulate	-0.343 U	4.2	7.6	SORD-59C-GW041811	Eu-154	Suspended	1.3 U	1.7	5.9
RD-59C	RD-59C_011211_01	Eu-155	Dissolved	-1.35 U	4.7	8	SORD-59C-GW041811	Eu-155	Filtered	0.48 U	0.68	2.3
RD-59C	RD-59C_011211_01	Eu-155	Particulate	4.13 U	4.5	7.61	SORD-59C-GW041811	Eu-155	Suspended	-0.56 U	0.38	1.3
RD-59C	RD-59C_011211_01	gross_alpha	Dissolved	3.32	1.3	1.42	SORD-59C-GW041811	gross_alpha	Filtered	1.83	0.27	0.43
RD-59C	RD-59C_011211_01	gross_alpha	Particulate	0.374 U	0.35	0.48	SORD-59C-GW041811	gross_alpha	Suspended	0.3	0.15	0.48
RD-59C	RD-59C_011211_01	gross_beta	Dissolved	2.92 J	1.3	2	SORD-59C-GW041811	gross_beta	Filtered	2.65	0.76	2.2
RD-59C	RD-59C_011211_01	gross_beta	Particulate	0.623 U	1.9	3.01	SORD-59C-GW041811	gross_beta	Suspended	0.006 U	0.25	0.85
RD-59C	RD-59C_011211_01	K-40	Dissolved	3.56 U	20	34.7	SORD-59C-GW041811	K-40	Filtered	-13 U	23	19
RD-59C	RD-59C_011211_01	K-40	Particulate	-15.3 U	25	45	SORD-59C-GW041811	K-40	Suspended	2.4 U	3.1	12
RD-59C	RD-59C_011211_01	Na-22	Dissolved	-0.263 U	0.77	1.47	SORD-59C-GW041811	Na-22	Filtered	-0.1 U	0.38	1.3
RD-59C	RD-59C_011211_01	Na-22	Particulate	-0.116 U	1.4	2.57	SORD-59C-GW041811	Na-22	Suspended	-0.03 U	0.22	0.77
RD-59C	RD-59C_011211_01	Sr-90	Dissolved	-0.219 U	0.28	0.594	SORD-59C-GW041811	Sr-90	Filtered	0.006 U	0.021	0.071
RD-59C	RD-59C_011211_01	Sr-90	Particulate	-0.067 U	0.42	0.747	SORD-59C-GW041811	Sr-90	Suspended	0.005 U	0.017	0.058
RD-59C	RD-59C_011211_01	H-3	Total	-155 U	180	334	SORD-59C-GW041812	H-3	Total	-10 U	140	42
RD-59C	RD-59C_011211_01	U-233/234	Dissolved	0.207 J	0.071	0.063	SORD-59C-GW041811	U-233/234	Filtered	0.222	0.024	0.014
RD-59C	RD-59C_011211_01	U-233/234	Particulate	-0.009 U	0.026	0.069	SORD-59C-GW041811	U-233/234	Suspended	-0.001 U	0.0043	0.0052
RD-59C	RD-59C_011211_01	U-235/236	Dissolved	-0.005 U	0.011	0.051	SORD-59C-GW041811	U-235/236	Filtered	0 U	0.0021	0.0072
RD-59C	RD-59C_011211_01	U-235/236	Particulate	0.005 U	0.01	0.04	SORD-59C-GW041811	U-235/236	Suspended	-0.0014 U	0.0036	0.02
RD-59C	RD-59C_011211_01	U-238	Dissolved	0.062 J	0.035	0.049	SORD-59C-GW041811	U-238	Filtered	0.053	0.012	0.014

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-59C	RD-59C_011211_01	U-238	Particulate	0.009 U	0.017	0.041	SORD-59C-GW041811	U-238	Suspended	-0.0052 U	0.004	0.016
RD-85	RD-85_011411_01	Sb-125	Dissolved	-4.01 U	4.7	8.2	SMRD-85-GW031711	Sb-125	Filtered	3.8	4	13
RD-85	RD-85_011411_01	Sb-125	Particulate	3.41 U	3.9	6.57	SMRD-85-GW031711	Sb-125	Suspended	1.7 U	1.6	5.2
RD-85	RD-85_011411_01	Cs-134	Dissolved	-0.36 U	0.91	1.7	SMRD-85-GW031711	Cs-134	Filtered	0.23	0.4	1.4
RD-85	RD-85_011411_01	Cs-134	Particulate	-0.311 U	2.3	4.07	SMRD-85-GW031711	Cs-134	Suspended	0 U	0.26	0.89
RD-85	RD-85_011411_01	Cs-137	Dissolved	-0.651 U	1.5	2.63	SMRD-85-GW031711	Cs-137	Filtered	0.73	0.46	1.5
RD-85	RD-85_011411_01	Cs-137	Particulate	-0.18 U	1.6	2.81	SMRD-85-GW031711	Cs-137	Suspended	-0.04 U	0.2	0.68
RD-85	RD-85_011411_01	Co-60	Dissolved	0.613 U	2	3.45	SMRD-85-GW031711	Co-60	Filtered	0.34	0.42	1.5
RD-85	RD-85_011411_01	Co-60	Particulate	0.469 U	1.5	2.68	SMRD-85-GW031711	Co-60	Suspended	0.12 U	0.22	0.77
RD-85	RD-85_011411_01	Eu-152	Dissolved	-0.547 U	4.1	8.35	SMRD-85-GW031711	Eu-152	Filtered	-0.8	1.2	4.2
RD-85	RD-85_011411_01	Eu-152	Particulate	-0.5 U	5.4	9.3	SMRD-85-GW031711	Eu-152	Suspended	-0.35 U	0.47	1.6
RD-85	RD-85_011411_01	Eu-154	Dissolved	1.1 U	4.7	8.1	SMRD-85-GW031711	Eu-154	Filtered	0.5	3.7	13
RD-85	RD-85_011411_01	Eu-154	Particulate	-0.472 U	3	5.63	SMRD-85-GW031711	Eu-154	Suspended	-0.6 U	1.8	6.1
RD-85	RD-85_011411_01	Eu-155	Dissolved	0.881 U	5	8.49	SMRD-85-GW031711	Eu-155	Filtered	-0.48 U	0.99	3.3
RD-85	RD-85_011411_01	Eu-155	Particulate	-5.08 U	5.2	9.14	SMRD-85-GW031711	Eu-155	Suspended	-0.005 U	0.35	1.2
RD-85	RD-85_011411_01	gross_alpha	Dissolved	4.78	1.9	2.03	SMRD-85-GW031711	gross_alpha	Filtered	5.63	0.51	0.52
RD-85	RD-85_011411_01	gross_alpha	Particulate	2.06 J	1.1	1.43	SMRD-85-GW031711	gross_alpha	Suspended	1.5	0.41	0.95
RD-85	RD-85_011411_01	gross_beta	Dissolved	4.75	2.4	3.65	SMRD-85-GW031711	gross_beta	Filtered	5.5	1.2	3.2
RD-85	RD-85_011411_01	gross_beta	Particulate	2.31 U	2.4	3.89	SMRD-85-GW031711	gross_beta	Suspended	0.94	0.3	0.88
RD-85	RD-85_011411_01	K-40	Dissolved	-10.1 U	27	47	SMRD-85-GW031711	K-40	Filtered	-26 U	82	25
RD-85	RD-85_011411_01	K-40	Particulate	-12.2 U	23	40.7	SMRD-85-GW031711	K-40	Suspended	-1.2 U	2.8	9.5
RD-85	RD-85_011411_01	Na-22	Dissolved	0.374 U	1.6	2.74	SMRD-85-GW031711	Na-22	Filtered	0.08	0.41	1.5
RD-85	RD-85_011411_01	Na-22	Particulate	-0.16 U	1	1.91	SMRD-85-GW031711	Na-22	Suspended	0 U	0.27	0.94
RD-85	RD-85_011411_01	Sr-90	Dissolved	0.13 U	0.37	0.696	SMRD-85-GW031711	Sr-90	Filtered	-0.005 U	0.035	0.12
RD-85	RD-85_011411_01	Sr-90	Particulate	-0.158 U	0.37	0.77	SMRD-85-GW031711	Sr-90	Suspended	-0.04 U	0.04	0.15
RD-85	RD-85_011411_01	H-3	Total	124 U	180	295	SMRD-85-GW031711	H-3	Total	13 U B	42	140
RD-85	RD-85_011411_01	U-233/234	Dissolved	3.13	0.29	0.091	SMRD-85-GW031711	U-233/234	Filtered	1.98	0.11	0.006
RD-85	RD-85_011411_01	U-233/234	Particulate	-0.013 U	0.018	0.059	SMRD-85-GW031711	U-233/234	Suspended	-0.0043 U	0.0046	0.015
RD-85	RD-85_011411_01	U-235/236	Dissolved	0.155 J	0.065	0.062	SMRD-85-GW031711	U-235/236	Filtered	0.082	0.016	0.008

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-85	RD-85_011411_01	U-235/236	Particulate	-0.005 U	0.011	0.051	SMRD-85-GW031711	U-235/236	Suspended	0 U	0.0026	0.0069
RD-85	RD-85_011411_01	U-238	Dissolved	2.64	0.26	0.072	SMRD-85-GW031711	U-238	Filtered	1.63	0.092	0.015
RD-85	RD-85_011411_01	U-238	Particulate	0.013 U	0.018	0.042	SMRD-85-GW031711	U-238	Suspended	0.0087	0.0071	0.019
RD-86	RD-86_011411_01	Sb-125	Dissolved	-1.64 U	4.5	7.77	SMRD-86-GW032911	Sb-125	Filtered	3.4 U	4.4	15
RD-86	RD-86_011411_01	Sb-125	Particulate	3.03 U	6.3	10.7	SMRD-86-GW032911	Sb-125	Suspended	-0.1 U	1.5	5.2
RD-86	RD-86_011411_01	Cs-134	Dissolved	0.509 U	1.8	3.08	SMRD-86-GW032911	Cs-134	Filtered	0.71 SK	0.38	1.3
RD-86	RD-86_011411_01	Cs-134	Particulate	-0.469 U	2.7	4.8	SMRD-86-GW032911	Cs-134	Suspended	0.005 U	0.2	0.69
RD-86	RD-86_011411_01	Cs-137	Dissolved	-1.26 U	1.6	2.82	SMRD-86-GW032911	Cs-137	Filtered	0.55 U	0.41	1.4
RD-86	RD-86_011411_01	Cs-137	Particulate	-0.259 U	3.5	6.1	SMRD-86-GW032911	Cs-137	Suspended	0.004 U	0.18	0.64
RD-86	RD-86_011411_01	Co-60	Dissolved	-0.048 U	1.4	2.57	SMRD-86-GW032911	Co-60	Filtered	-0.22 U	0.41	1.5
RD-86	RD-86_011411_01	Co-60	Particulate	1.79 U	3.6	6.16	SMRD-86-GW032911	Co-60	Suspended	-0.03 U	0.14	0.52
RD-86	RD-86_011411_01	Eu-152	Dissolved	-3.8 U	5.8	10	SMRD-86-GW032911	Eu-152	Filtered	0 U	1.4	4.6
RD-86	RD-86_011411_01	Eu-152	Particulate	-0.878 U	6.9	11.9	SMRD-86-GW032911	Eu-152	Suspended	0.33 U	0.49	1.7
RD-86	RD-86_011411_01	Eu-154	Dissolved	-0.518 U	3.2	5.87	SMRD-86-GW032911	Eu-154	Filtered	0 U	3.5	12
RD-86	RD-86_011411_01	Eu-154	Particulate	1.97 U	3.7	6.49	SMRD-86-GW032911	Eu-154	Suspended	0 U	1.8	6.2
RD-86	RD-86_011411_01	Eu-155	Dissolved	3.12 U	4.8	8.04	SMRD-86-GW032911	Eu-155	Filtered	-0.4 U	1.4	4.8
RD-86	RD-86_011411_01	Eu-155	Particulate	1.99 U	3.2	5.45	SMRD-86-GW032911	Eu-155	Suspended	0.3 U	0.31	1
RD-86	RD-86_011411_01	gross_alpha	Dissolved	2.07 J	1.2	1.91	SMRD-86-GW032911	gross_alpha	Filtered	5.18 J	0.52	0.57
RD-86	RD-86_011411_01	gross_alpha	Particulate	1.89 J	0.75	0.86	SMRD-86-GW032911	gross_alpha	Suspended	1.37	0.25	0.5
RD-86	RD-86_011411_01	gross_beta	Dissolved	2.32 J	1.3	2.01	SMRD-86-GW032911	gross_beta	Filtered	0.74 R	0.35	1.1
RD-86	RD-86_011411_01	gross_beta	Particulate	2.26 J	1.4	2.13	SMRD-86-GW032911	gross_beta	Suspended	3.73	0.4	0.84
RD-86	RD-86_011411_01	K-40	Dissolved	-2.14 U	22	38	SMRD-86-GW032911	K-40	Filtered	-7 U	12	19
RD-86	RD-86_011411_01	K-40	Particulate	-7.64 U	19	35.7	SMRD-86-GW032911	K-40	Suspended	0.05 U	2.5	9.7
RD-86	RD-86_011411_01	Na-22	Dissolved	-0.176 U	1.1	1.99	SMRD-86-GW032911	Na-22	Filtered	0.29 U	0.42	1.4
RD-86	RD-86_011411_01	Na-22	Particulate	0.668 U	1.3	2.2	SMRD-86-GW032911	Na-22	Suspended	-0.01 U	0.18	0.63
RD-86	RD-86_011411_01	Sr-90	Dissolved	0.056 U	0.42	0.804	SMRD-86-GW032911	Sr-90	Filtered	0.042 U	0.039	0.13
RD-86	RD-86_011411_01	Sr-90	Particulate	-0.019 U	0.4	0.786	SMRD-86-GW032911	Sr-90	Suspended	0.06	0.027	0.087
RD-86	RD-86_011411_01	H-3	Total	76.8 U	180	297	SMRD-86-GW032911	H-3	Total	-10 U	35	120
RD-86	RD-86_011411_01	U-233/234	Dissolved	1.9	0.21	0.074	SMRD-86-GW032911	U-233/234	Filtered	2.41	0.12	0.005

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-86	RD-86_011411_01	U-233/234	Particulate	0.044 U	0.039	0.065	SMRD-86-GW032911	U-233/234	Suspended	0.079	0.014	0.014
RD-86	RD-86_011411_01	U-235/236	Dissolved	0.158 J	0.059	0.045	SMRD-86-GW032911	U-235/236	Filtered	0.109	0.018	0.02
RD-86	RD-86_011411_01	U-235/236	Particulate	0.006 U	0.024	0.065	SMRD-86-GW032911	U-235/236	Suspended	0.0051 U	0.0036	0.0069
RD-86	RD-86_011411_01	U-238	Dissolved	1.8	0.2	0.06	SMRD-86-GW032911	U-238	Filtered	2.33	0.12	0.01
RD-86	RD-86_011411_01	U-238	Particulate	0.039 U	0.029	0.047	SMRD-86-GW032911	U-238	Suspended	0.058	0.012	0.006
RD-96	RD-96_011211_01	Sb-125	Dissolved	-2.86 U	4.1	7.14	SMRD-96-GW032511	Sb-125	Filtered	2.5 U	3.6	12
RD-96	RD-96_011211_01	Sb-125	Particulate	0.222 U	5.4	9.38	SMRD-96-GW032511	Sb-125	Suspended	0.1 U	1.7	5.8
RD-96	RD-96_011211_01	Cs-134	Dissolved	-0.608 U	1.3	2.37	SMRD-96-GW032511	Cs-134	Filtered	0.15 U	0.33	1.2
RD-96	RD-96_011211_01	Cs-134	Particulate	1.96 U	2.2	3.62	SMRD-96-GW032511	Cs-134	Suspended	0.49	0.13	0.8
RD-96	RD-96_011211_01	Cs-137	Dissolved	-1.41 U	1.4	2.58	SMRD-96-GW032511	Cs-137	Filtered	0.26 U	0.43	1.5
RD-96	RD-96_011211_01	Cs-137	Particulate	0.893 U	1.9	3.17	SMRD-96-GW032511	Cs-137	Suspended	0 U	0.21	0.73
RD-96	RD-96_011211_01	Co-60	Dissolved	0.223 U	0.9	1.6	SMRD-96-GW032511	Co-60	Filtered	-0.22 U	0.51	1.8
RD-96	RD-96_011211_01	Co-60	Particulate	0.11 U	1.3	2.4	SMRD-96-GW032511	Co-60	Suspended	0.11 U	0.22	0.78
RD-96	RD-96_011211_01	Eu-152	Dissolved	1.33 U	1.5	4.15	SMRD-96-GW032511	Eu-152	Filtered	-1.2 U	1.3	4.2
RD-96	RD-96_011211_01	Eu-152	Particulate	-8.03 U	11	19.5	SMRD-96-GW032511	Eu-152	Suspended	0.37 U	0.55	1.8
RD-96	RD-96_011211_01	Eu-154	Dissolved	-1.2 U	2.5	4.79	SMRD-96-GW032511	Eu-154	Filtered	4.4 U	3.5	12
RD-96	RD-96_011211_01	Eu-154	Particulate	1.71 U	3.1	5.43	SMRD-96-GW032511	Eu-154	Suspended	-1.2 U J	1.6	5.4
RD-96	RD-96_011211_01	Eu-155	Dissolved	-1.57 U	3.8	6.6	SMRD-96-GW032511	Eu-155	Filtered	0.67 U	0.95	3.2
RD-96	RD-96_011211_01	Eu-155	Particulate	0.966 U	4.6	7.95	SMRD-96-GW032511	Eu-155	Suspended	0.26 U	0.37	1.2
RD-96	RD-96_011211_01	gross_alpha	Dissolved	7.54	2.1	2.06	SMRD-96-GW032511	gross_alpha	Filtered	7.41	0.59	0.5
RD-96	RD-96_011211_01	gross_alpha	Particulate	3.08	1.1	1.12	SMRD-96-GW032511	gross_alpha	Suspended	6.02	0.84	1.2
RD-96	RD-96_011211_01	gross_beta	Dissolved	7.38	2.5	3.77	SMRD-96-GW032511	gross_beta	Filtered	7.18	0.8	1.7
RD-96	RD-96_011211_01	gross_beta	Particulate	1.01 U	2	3.23	SMRD-96-GW032511	gross_beta	Suspended	7.57	0.68	1.3
RD-96	RD-96_011211_01	K-40	Dissolved	3.91 U	20	34	SMRD-96-GW032511	K-40	Filtered	9.4	4.8	18
RD-96	RD-96_011211_01	K-40	Particulate	-14.6 U	21	38.6	SMRD-96-GW032511	K-40	Suspended	7.1	3.4	9.8
RD-96	RD-96_011211_01	Na-22	Dissolved	-0.404 U	0.85	1.62	SMRD-96-GW032511	Na-22	Filtered	-0.35 U	0.51	1.8
RD-96	RD-96_011211_01	Na-22	Particulate	0.579 U	1.1	1.83	SMRD-96-GW032511	Na-22	Suspended	0 U	0.29	1
RD-96	RD-96_011211_01	Sr-90	Dissolved	0.011 U	0.32	0.634	SMRD-96-GW032511	Sr-90	Filtered	-0.028 U	0.048	0.17
RD-96	RD-96_011211_01	Sr-90	Particulate	0.006 U	0.3	0.593	SMRD-96-GW032511	Sr-90	Suspended	-0.009 U	0.034	0.12

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-96	RD-96_011211_01	H-3	Total	-134 U	190	334	SMRD-96-GW032511	H-3	Total	25 U	36	120
RD-96	RD-96_011211_01	U-233/234	Dissolved	5.8	0.36	0.067	SMRD-96-GW032511	U-233/234	Filtered	4.1	0.2	0.01
RD-96	RD-96_011211_01	U-233/234	Particulate	0.043 U	0.029	0.045	SMRD-96-GW032511	U-233/234	Suspended	0.107	0.015	0.017
RD-96	RD-96_011211_01	U-235/236	Dissolved	0.224 J	0.067	0.046	SMRD-96-GW032511	U-235/236	Filtered	0.242	0.028	0.018
RD-96	RD-96_011211_01	U-235/236	Particulate	0 U	0.018	0.042	SMRD-96-GW032511	U-235/236	Suspended	0.0109	0.0049	0.0059
RD-96	RD-96_011211_01	U-238	Dissolved	5.81	0.36	0.057	SMRD-96-GW032511	U-238	Filtered	3.8	0.18	0.02
RD-96	RD-96_011211_01	U-238	Particulate	0.018 U	0.014	0.028	SMRD-96-GW032511	U-238	Suspended	0.062	0.012	0.014
RD-98	RD-98_011311_01	Sb-125	Dissolved	-3.49 U	9.4	16.4	SMRD-98-GW041911	Sb-125	Filtered	-2.6 U	4	14
RD-98	RD-98_011311_01	Sb-125	Particulate	1.84 U	4	6.85	SMRD-98-GW041911	Sb-125	Suspended	-1.3 U	1.6	5.2
RD-98	RD-98_011311_01	Cs-134	Dissolved	-0.462 U	2.4	4.25	SMRD-98-GW041911	Cs-134	Filtered	0.03 U	0.35	1.2
RD-98	RD-98_011311_01	Cs-134	Particulate	0.59 U	1.5	2.57	SMRD-98-GW041911	Cs-134	Suspended	-0.19 U	0.2	0.68
RD-98	RD-98_011311_01	Cs-137	Dissolved	1.14 U	2.9	4.92	SMRD-98-GW041911	Cs-137	Filtered	-0.01 U	0.3	1.1
RD-98	RD-98_011311_01	Cs-137	Particulate	-0.459 U	2.1	3.75	SMRD-98-GW041911	Cs-137	Suspended	0.12 U	0.18	0.63
RD-98	RD-98_011311_01	Co-60	Dissolved	-2.19 U	3.2	5.84	SMRD-98-GW041911	Co-60	Filtered	0.41 U	0.38	1.3
RD-98	RD-98_011311_01	Co-60	Particulate	1.54 U	1.7	2.78	SMRD-98-GW041911	Co-60	Suspended	0.26 U	0.22	0.74
RD-98	RD-98_011311_01	Eu-152	Dissolved	-6.05 U	8.8	15.4	SMRD-98-GW041911	Eu-152	Filtered	-0.17 U	0.99	3.4
RD-98	RD-98_011311_01	Eu-152	Particulate	-2.02 U	6.4	11.1	SMRD-98-GW041911	Eu-152	Suspended	0.57 U	0.47	1.6
RD-98	RD-98_011311_01	Eu-154	Dissolved	-3.1 U	6.2	11.8	SMRD-98-GW041911	Eu-154	Filtered	-0.01 U	2.9	10
RD-98	RD-98_011311_01	Eu-154	Particulate	-0.635 U	4.2	7.59	SMRD-98-GW041911	Eu-154	Suspended	1.3 U	1.6	5.5
RD-98	RD-98_011311_01	Eu-155	Dissolved	-8.62 U	9	15.7	SMRD-98-GW041911	Eu-155	Filtered	0.3 U	1	3.4
RD-98	RD-98_011311_01	Eu-155	Particulate	-3.02 U	4.7	8.15	SMRD-98-GW041911	Eu-155	Suspended	-0.01 U	0.23	0.79
RD-98	RD-98_011311_01	gross_alpha	Dissolved	4	1.7	1.63	SMRD-98-GW041911	gross_alpha	Filtered	6.05 J	0.57	0.67
RD-98	RD-98_011311_01	gross_alpha	Particulate	-0.16 U	0.65	1.26	SMRD-98-GW041911	gross_alpha	Suspended	0.99	0.23	0.51
RD-98	RD-98_011311_01	gross_beta	Dissolved	113	4.2	3.19	SMRD-98-GW041911	gross_beta	Filtered	325 R	12	1
RD-98	RD-98_011311_01	gross_beta	Particulate	-0.867 U	2	3.44	SMRD-98-GW041911	gross_beta	Suspended	1.5	0.31	0.84
RD-98	RD-98_011311_01	K-40	Dissolved	21.8 U	39	67	SMRD-98-GW041911	K-40	Filtered	-2.1 U	5.3	18
RD-98	RD-98_011311_01	K-40	Particulate	-23.4 U	25	45.4	SMRD-98-GW041911	K-40	Suspended	5.9	2.1	8.5
RD-98	RD-98_011311_01	Na-22	Dissolved	-1.05 U	2.1	3.98	SMRD-98-GW041911	Na-22	Filtered	0.12 U	0.33	1.2
RD-98	RD-98_011311_01	Na-22	Particulate	-0.214 U	1.4	2.56	SMRD-98-GW041911	Na-22	Suspended	0.2 U	0.21	0.72

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

Well Identification	BOEING DATA						EPA DATA					
	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	Error	MDC	Sample Identification	Analyte Name	Reporting Basis	Activity (pCi/L)	TPU	MDC
RD-98	RD-98_011311_01	Sr-90	Dissolved	64.2	2.4	0.802	SMRD-98-GW041911	Sr-90	Filtered	183	7.7	0.3
RD-98	RD-98_011311_01	Sr-90	Particulate	0.224 U	0.41	0.749	SMRD-98-GW041911	Sr-90	Suspended	0.16	0.03	0.084
RD-98	RD-98_011311_01	H-3	Total	0 U	170	292	SMRD-98-GW041911	H-3	Total	23 U	36	120
RD-98	RD-98_011311_01	U-233/234	Dissolved	6.75	0.55	0.111	SMRD-98-GW041911	U-233/234	Filtered	4.82	0.23	0.01
RD-98	RD-98_011311_01	U-233/234	Particulate	0.008 U	0.033	0.079	SMRD-98-GW041911	U-233/234	Suspended	0.008	0.0059	0.0051
RD-98	RD-98_011311_01	U-235/236	Dissolved	0.27 J	0.11	0.071	SMRD-98-GW041911	U-235/236	Filtered	0.182	0.023	0.007
RD-98	RD-98_011311_01	U-235/236	Particulate	0.01 U	0.02	0.076	SMRD-98-GW041911	U-235/236	Suspended	0.0074	0.005	0.015
RD-98	RD-98_011311_01	U-238	Dissolved	2.89	0.33	0.095	SMRD-98-GW041911	U-238	Filtered	1.54	0.086	0.006
RD-98	RD-98_011311_01	U-238	Particulate	0.008 U	0.016	0.063	SMRD-98-GW041911	U-238	Suspended	0.0204	0.0077	0.012

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval.

The Boeing Company samples were collected in January 2011, the USEPA data was collected during March 2011.

The gross alpha and gross beta results reported by The Boeing Company, may lack adequate analytical control and should not be used as a basis for assessing the data quality or making analytical decisions.

MDC - minimum detectable concentration

pCi/L - picocuries per liter

TPU - total propagated uncertainty

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.