ECF-100NR2-14-0048
Revision 1

Estimate of Three-Dimensional Plumes in Support of Numerical Fate and Transport Modeling at 100-NR-2

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

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

CH2MHILL
Plateau Remediation Company

P.O. Box 1600
Richland, Washington 99352

Approved for Public Release;
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Environmental Calculation File

Estimate of Three-Dimensional Plumes in Support of Numerical Fate and Transport Modeling at 100-NR-2

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Terms

3-D	three-dimensional
BHI	Bechtel Hanford, Inc.
CAS	chemical abstracts service number
CHPRC	CH2M Hill Plateau Remediation Company
COC	contaminant of concern
CSV	comma delimited file
ECF	Environmental Calculation File
HEIS	Hanford Environmental Information System
HISI	Hanford Information Systems Inventory
MT3D	Modular 3-D Multi-Species Transport Model
OU	operable unit
SQL	structured query language
Sr-90	strontium-90
TPH-Diesel	total petroleum hydrocarbons – diesel range

1 Purpose

Operations at the Hanford Site have resulted in several contaminant plumes near the 100-NR-2 operable unit (OU). Contaminant plumes of strontium-90 (Sr-90), nitrate, tritium, and total petroleum hydrocarbon – diesel range (TPH-diesel) exist at actionable levels in the unconfined aquifer near 100-NR-2 OU. To estimate concentrations within the aquifer, the existing concentration data were interpolated to calculate a set of piecewise continuous plume estimates for the groundwater and vadose zone at 100-NR-2 OU. The purpose of this environmental calculation file (ECF) is to document the development of these contaminant plume estimates.

2 Background

This ECF documents the creation of estimated contaminant plume geometry using sample data located within and near 100-NR-2 OU. Vadose and saturated zone contaminant plume estimates are needed to perform the fate and transport modeling within the unconfined aquifer near 100-NR-2 OU. The plume estimates will be used to establish the initial concentration values for the numerical model and to estimate continuing source contributions to the contaminant plumes from the vadose zone for contaminants of concern (COCs) found in/near 100-NR-2 OU. Estimates for COC concentrations in the saturated zone near the water table are available in the *Hanford Site Groundwater Monitoring for 2016* (DOE/RL/2016-67). The work described in this document uses both the two-dimensional data from DOE/RL/2016-67 as well as the three-dimensional (3-D) data provided by depth-discrete borehole measurements near 100-NR-2 OU to create 3-D plumes. These 3-D plumes are then used in the numerical modeling documented in ECF-100NR2-15-0127, *Simulation of Contaminant Migration for the 100-N Remedial Investigation*.

For the saturated zone, two 3-D plume interpretations were produced for each COC: a maximum initial concentration condition and a best-estimate initial concentration condition. The maximum initial concentration condition will provide a conservatively high estimate of the concentration within each contaminant plume. The best-estimate initial concentration condition is meant to represent the expected concentration levels for of each COC in the saturated zone. For sample data collected prior to January 1, 2017, Radionuclides were decayed by their half-lives from the time of their sampling to January 1, 2017 (see Section 3.1).

The vadose zone estimated contaminant plumes were created for each COC, except for tritium, by incorporating all depth-discrete observations available. In the case of tritium, the vadose zone source term was estimated using a different technique that did not require plume delineation. As with the saturated zone, radionuclides were decayed by their respective half-life from the time of sampling to the date, January 1, 2017 (see Section 3.1).

The extent of the analysis presented in this ECF is based on the available data and the extent of the numerical model that the estimated plumes will be used to support. The model grid extent is shown in Figure 1 and includes the locations of available sampling points in the unconfined aquifer near the 100-NR-2 OU. The numerical model extent is bounded by the Columbia River to the northwest. The northeast, southeast, and southwest model boundaries were selected to encompass all the contaminant plumes within the unconfined aquifer at 100-NR-2 OU. More information defining the extent of the numerical model for the 100-NR-2 OU is detailed in ECF-100NR2-15-0128.

3 Methodology

The steps required to perform this calculation include collection and evaluation of data necessary for making the calculation and developing the estimated plume concentration values within the vadose and saturated zone. The steps necessary for this process are shown in the outline below.

1. Gathering Observed Data –

    a. Data for both the saturated and vadose zone were queried together using a single query using structured query language (SQL). The specifics pertaining to both the vadose and groundwater zones, respectively, are covered in later bullets. The query used to obtain data from the HEIS database is found in Attachment A. The tables that were used with the query are described below:

        i. The table "WellList" as referenced in the query is a custom table with entries for WELL_ID where records included the wells within and close to the model domain is shown in Attachment A. The complete list of wells is also shown in Attachment A.

        ii. The table "Constituents" as referenced in the query is a custom table with entries for the Analyte with its corresponding Chemical Abstracts Service Number (CAS No.). In the event of multiple CAS No.'s for the same analyte, the analyte is repeated in the table with each unique CAS No. Table 3-1 contains the complete list of analytes and CAS No.'s included in the query. Please note that CAS No.'s 10098-97-2 and SR-RAD are treated as interchangeable in this ECF for Sr-90.

Table 3-1. Constituents

Analyte	CAS No.
Strontium-90	10098-97-2
Total beta radiostrontium	SR-RAD
Tritium	10028-17-8
Nitrate	14797-55-8
Total petroleum hydrocarbons – diesel	TPHDIESEL
Nitrate	NO3-N

    b. Vadose Zone Data – The vadose zone data for total petroleum hydrocarbons – diesel range (TPH-diesel), nitrate, and Sr-90 were compiled with data from HEIS using the query referenced (Attachment A) and selecting only those samples that have the attributes of MEDIA = 'SO' and STD_ANAL_UNITS_RPTD = 'pCi/g' OR 'µg/kg'. For nitrate, Sr-90, and TPH-diesel, additional data were included from a previous study of the vadose zone plumes for 100-NR-2 OU as detailed in ECF-100NR2-14-0048 Rev. 0. These data originate from project reports available in the Administrative Record. The source of each of these points is indicated in the tables found in Attachment B.

c. Groundwater Concentration Data – All groundwater concentration data points were selected from the HEIS query mentioned. In addition to the data points pulled from HEIS, concentration contours of each contaminant plume at the water table surface were included from DOE/RL/2016-67.

2. Evaluate Data for Interpolation – Only observations that were conservatively representative of the plume dimensions and concentrations were incorporated in the plume interpretations. For this model, "conservative" indicates a larger-sized and higher concentration plume for each constituent. The steps for extracting these conservatively representative data points are as follows:

    a. Remove data with an "R" or "Y" flag in the Review Qualifier, data collected during the drilling process, and unfiltered total chromium measurements.

    b. Replace non-detect values with the standard reporting limit (SRL) or minimum detectable activity (MDA) as available/applicable.

        i. For the nitrate vadose zone plume, the non-detect values were replaced with the lowest detected concentration in the 100-NR-2 OU, which was 200 µg/kg. The reason for this substitution was to mitigate the noise in the non-detect samples whose reported values varied so widely as to distract from the measurements with higher confidence (e.g. several non-detect samples were recorded with measured concentrations much higher than samples with no review qualifier).

        ii. The TPH-Diesel vadose zone plume non-detect values were replaced with a value of 7000 µg/kg to help reduce the noise produced by the wide variation of reported concentration. The value of 7000 µg/kg was chosen as a conservative value compared with the arithmetic mean of all non-detect values queried in HEIS using the query and tables described.

    c. Select data for the maximum and best estimate conditions:

        i. Maximum condition - the most conservative (highest magnitude) concentration value for each COC before the simulation start date January 1, 2017 and after January 1, 2014.

        ii. Best estimate condition – Where multiple samples were available near the date January 1, 2017, the year containing data closest to January 1, 2017 was selected. Then, the arithmetic mean was calculated and the sample closest to the mean was selected as the best representation of the aquifer.

    The values selected for interpolation based on the criteria above are listed in Attachment B and Attachment C.

3. Create Inferred Control Points and Polylines – In some cases inferred control points and/or polylines were used to constrain the shape of the estimated concentration plume where observed data were sparse, or no data were available. An inferred control point/line should reflect the expected behavior of the plume and should not replace measured values. The purpose of these inferred controls is to provide a reasonable estimate of the concentration where sparse data may cause unexpected extent and magnitude because of limitations of the methods used for estimation. Caution must be used in applying inferred control points or polylines because they may cause over-confidence in the estimated plume extent and magnitude in locations where the hypothetical points were placed. Inferred control points and/or polylines will be used along the borders of the measured data and along the border of

the model to reduce noise along the edges of the model where concentration data are sparse or unavailable. Exact locations and concentration values assigned to inferred control points can be found with its corresponding dataset in Attachment B (inferred control points were only necessary for the vadose zone plumes). Graphic representations of the inferred control points in the vadose zone plume interpretations can be found in Figures 3-1 thru 3-3.

4. Interpolate COC Distributions – Interpolated COC distributions were calculated using the Leapfrog-Geo software package. The software utilizes a radial basis function to estimate concentration values based on point location data provided by the user. A description of this software and its approval for use at the Hanford Site is found in Section 5. Two steps involved in creating the COC interpolations, importing data and altering input parameters, are discussed below.

    a. Import Data into Leapfrog – Data from the SQL query were saved as a comma delimited ASCII text (CSV) file. Leapfrog-Geo imports CSV files as part of its core functionality. The well name was imported as text. Both X (northing) and Y (easting) coordinate values were imported as the values exported from HEIS. The elevation column for each data point was assigned based on the arithmetic mean of the difference between the sample top and bottom depths as reported by HEIS. Metadata columns such as the date, lab qualifier, and comments were imported as “Date”, “Category”, and “Text”, respectively. All other values were imported as numeric values. Concentration values were transformed into $\log_{10}$ space before importing into Leapfrog-Geo.

    b. Alter Input Parameters – Interpolation in Leapfrog-Geo was completed by creating a new “Interpolant” from the imported data. Input parameters for the “Interpolant” were altered from default values to reflect the expected concentration conditions of the unconfined aquifer. The final parameters are detailed in Section 6.

5. Extract Data for use in MT3D – The standard functionality of the Leapfrog-Geo software package provides a method of mapping interpolation results onto a numerical grid structure suitable for Modular 3-D Multi-Species Transport Model (MT3D). This is done by importing the location of the center of each computational cell in the numerical model and mapping the estimated concentration values onto those points. Leapfrog-Geo can export these files to a format that is suitable for inclusion in MT3D input files. The estimated concentration values were back transformed from $\log_{10}$ space and compared against measured point locations to ensure the measured values for the sampled locations were preserved. If the maximum value was not preserved through the extraction process the model input files are altered within the cell containing the observed maximum value to match that observed value.

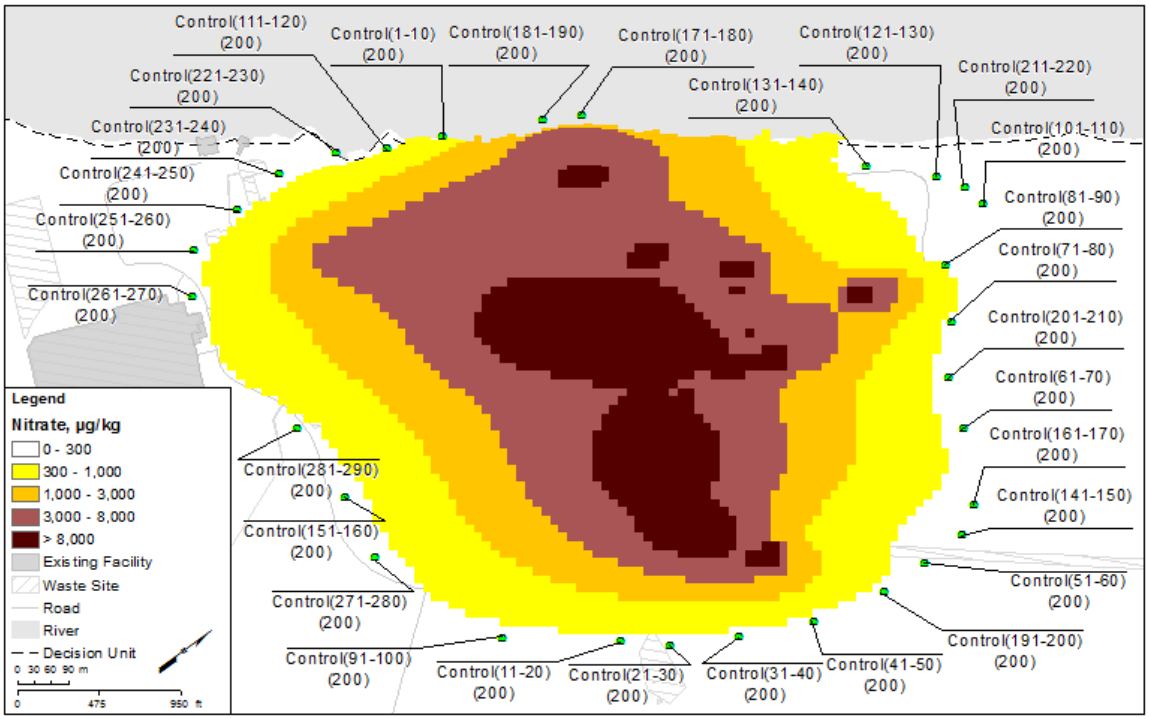

Figure 3-1. Inferred control points for nitrate

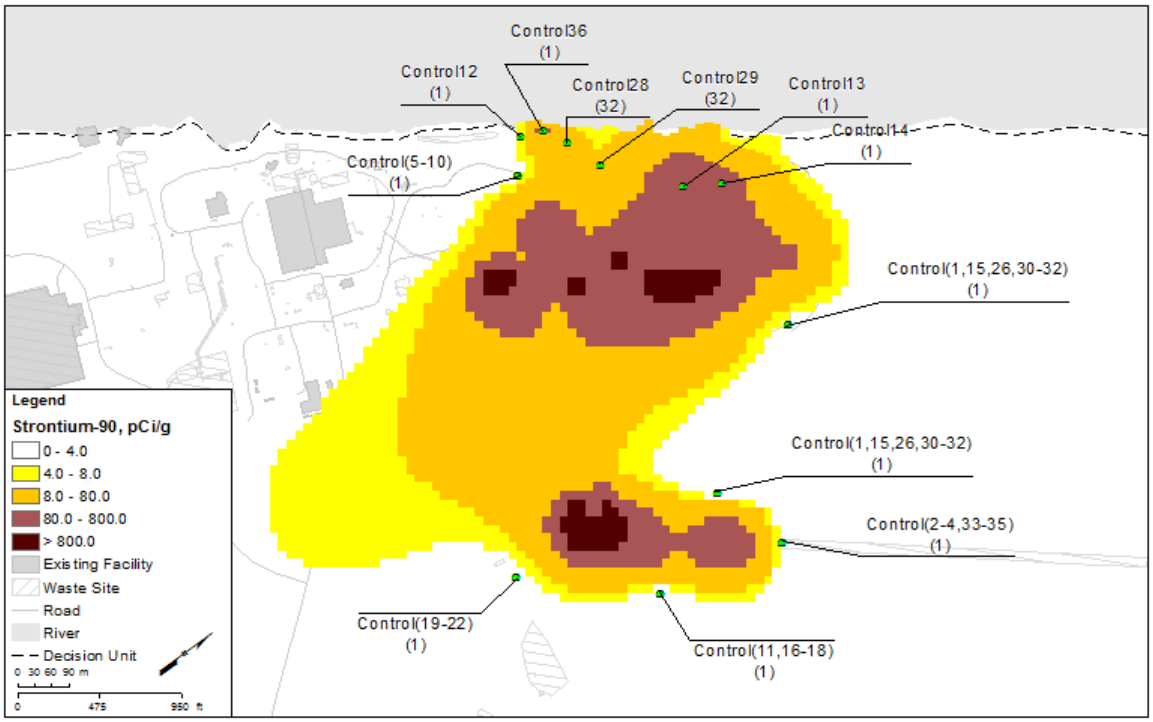

Figure 3-2. Inferred control points for strontium-90

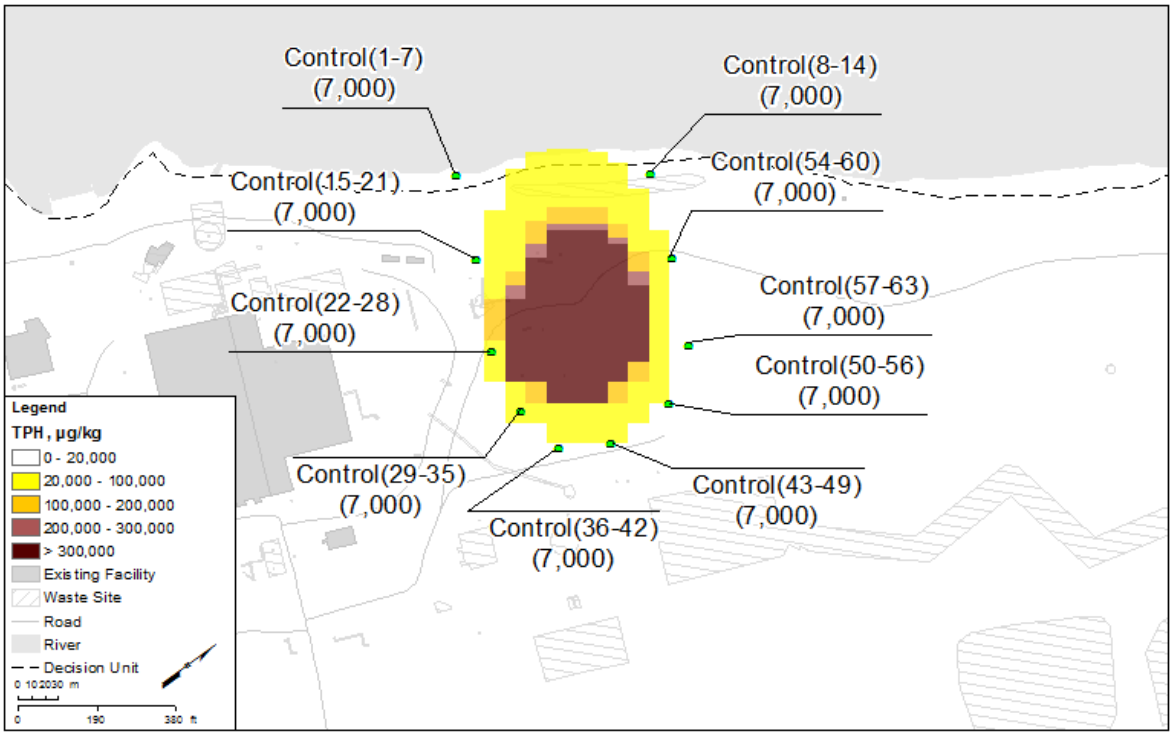

Figure 3-3. Inferred control points for TPH-Diesel

3.1 Radioactive Decay

In the case of the radionuclide plumes being estimated near 100-NR-2 OU, the sample observations required a correction for radioactive decay for the time between sampling and January 1, 2017 (the simulation start time). The equations for radioactive decay are:

$$A = A_o e^{-\lambda T} \quad (1)$$

$$\lambda = \frac{\ln 2}{t_{1/2}} \quad (2)$$

Where:

- A = Concentration remaining after decay
- A_o = Initial concentration (at time of sampling)
- $t_{1/2}$ = Half-life of radioactive isotope
- T = Time

The half-lives used for Sr-90 and tritium were 29.12 years (EPA 402-R-99-001, 1999) and 12.32 years (EMDT-DE-0006), respectively.

4 Assumptions and Inputs

The purpose of this ECF is to estimate the distribution of each COC in the unconfined aquifer near 100-NR-2 OU. The inputs are sampling points extracted from the HEIS database and parameters selected in the Leapfrog-Geo software published by ARANZ. The inputs are discussed in detail in the section 6 and the software acceptance and description is detailed in section 5 of this ECF. The following assumptions were made regarding this calculation:

- It is assumed that transport of the plume has been dominated by advective flow.
- It is assumed that the selected samples sufficiently represent the concentration at that time.

5 Software Applications

Leapfrog-Geo®[1], Microsoft Excel®, Microsoft Access®, and ArcGIS®[2], software programs were used for this calculation. These are CH2M HILL Plateau Remediation Company (CHPRC) approved software. Leapfrog-Geo is approved calculation software with the approval documented in CHPRC-01755, Rev. 4. Microsoft Excel®, Microsoft Access® and ArcGIS® software programs were used for this calculation as spreadsheet software. ArcGIS® apart from use as spreadsheet software was used to compose figures

5.1 Approved Software

For approved calculation software used in this calculation, the required descriptions are provided below.

5.1.1 Description

Leapfrog-Geo

- Software Title: Leapfrog-Geo
- Software Version: 3.0
- Hanford Information System Inventory (HISI) Identification Number: 2874 (Safety Software, Level C)
- Workstation type and property number (from which software is run): INTERA Laptop (non-HLAN), INTERA #00909
- Authorized User: J. B. Fullerton
- CHPRC Software Control Documents:
    - CHPRC-01753 Rev. 1, *Leapfrog-Hydro and Leapfrog-Geo Software Management Plan*

[1] Leapfrog is a registered trademark of Aranz Geo Limited.

[2] ArcGIS is a registered trademark of registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

- CHPRC-01754 Rev. 1, *Leapfrog- Hydro and Leapfrog-Geo Software Test Plan*
- CHPRC-01755 Rev. 4, *Leapfrog- Hydro and Leapfrog-Geo Acceptance Test Report: Leapfrog-Hydro Version 2.3.2 and Leapfrog-Geo Version 3.0.0*

5.1.2 Software Installation and Checkout

Copies of the Software Installation and Checkout Forms for the authorized users and authorized workstations for software used that requires this documentation are provided in Attachment B to this ECF.

5.1.3 Statement of Valid Software Application

The preparers of this calculation attest that the software identified above, and used for the calculations described in this calculation, are appropriate for the application and used within the range of intended uses for which it was tested and accepted by CHPRC. Because Leapfrog-Geo is graded as Level C safety software, use of this program is required to be logged in the HISI. Accordingly, this environmental calculation has been logged by the software owner in the HISI under Identification Number 2874.

6 Calculation

An interpolation of the points listed in Attachment A using Leapfrog-Geo was completed for the conditions and COCs listed in Table 3. For each COC both a maximum and a best estimate condition were estimated in the groundwater. In the vadose zone, only a best estimate value was created because soil sample results are only available for the time when the soil is collected (i.e. no trend data were available at single locations).

Table 6-1. List of COC concentration distribution estimates developed as part of ECF-100NR2-14-0048

Domain	COC	Conditions	Input Parameter
Groundwater	Strontium-90	Maximum and Best Estimate	Table 6-2
	Nitrate		Table 6-3
	Tritium		Table 6-4, Table 6-5
	TPH-Diesel		Table 6-6
Vadose Zone	Strontium-90	Best Estimate	Table 6-7
	Nitrate		Table 6-8
	TPH-Diesel		Table 6-9

Input parameters for the interpolation are found in Tables 6-2 through 6-8. The input values were selected based on the professional judgment and visual inspection of the resulting estimated plume. Any input parameters not listed in the table were left at the program defaults. The parameters were selected to provide a continuous plume or a plume that is not a set of bull's-eyes

centered on observed data points. The parameters were selected so that the extents would mimic the plume estimates provided in previous reports such as the DOE/RL/2016-67.

Table 6-2. Input parameters used to estimate concentration of strontium-90 groundwater plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	10
Dip Azimuth	Degree	0.0	Intermediate	meter	10
Pitch	Degree	0.0	Minimum	meter	1.0
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	5	Drift	--	Constant
Accuracy	Meter	0.0002	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	0.9, 1.9, 2.5, 2.9, and 3.8		
Resolution		Meter	10.0		

Table 6-3. Input parameters used to estimate concentration of nitrate groundwater plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	10
Dip Azimuth	Degree	0.0	Intermediate	meter	10
Pitch	Degree	0.0	Minimum	meter	1
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	5	Drift	--	Constant
Accuracy	Meter	0.0002	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	4.35,4.65,4.95, and 5.25		
Resolution		Meter	5		

Table 6-4. Input parameters used to estimate concentration of tritium groundwater plume in Leapfrog-Geo (Best-Estimate)

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	10
Dip Azimuth	Degree	0.0	Intermediate	meter	10
Pitch	Degree	30	Minimum	meter	1
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	5	Drift	--	Constant
Accuracy	Meter	0.0005	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	4.0, 4.6, 4.9, and 5.1		
Resolution		Meter	2		

Table 6-5. Input parameters used to estimate concentration of tritium groundwater plume in Leapfrog-Geo (Maximum)

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	10
Dip Azimuth	Degree	0.0	Intermediate	meter	10
Pitch	Degree	30	Minimum	meter	2
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	5	Drift	--	Constant
Accuracy	Meter	0.0005	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	4.0, 4.6, 4.9, and 5.1		
Resolution		Meter	2		

Table 6-6. Input parameters used to estimate concentration of TPH-Diesel groundwater plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	11
Dip Azimuth	Degree	0.0	Intermediate	meter	7
Pitch	Degree	21.5	Minimum	meter	1.0
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	5	Drift	--	Constant
Accuracy	Meter	0.02	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	2.3, 3.3, 3.5, 3.7		
Resolution		Meter	10		

Table 6-7. Input parameters used to estimate concentration of strontium-90 vadose zone plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	10
Dip Azimuth	Degree	0.0	Intermediate	meter	10
Pitch	Degree	0.0	Minimum	meter	1.0
Interpolant					
Sill	Meter	1.0	Type	--	Linear
Range	Meter	10	Drift	--	Constant
Accuracy	Meter	0.02	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	1.0, 2.0, and 3.0		
Resolution		Meter	5.0		

Table 6-8. Input parameters used to estimate concentration of nitrate vadose zone plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	6
Dip Azimuth	Degree	0.0	Intermediate	meter	15
Pitch	Degree	31.5	Minimum	meter	2.0
Interpolant					
Sill	Meter	0.1	Type	--	Linear
Range	Meter	500	Drift	--	Constant
Accuracy	Meter	0.01	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	2.5, 3.0, 3.5, and 3.9		
Resolution		Meter	10		

Table 6-9. Input parameters used to estimate concentration of TPH-Diesel vadose zone plume in Leapfrog-Geo

Trend					
Directions			Ellipsoid Ratios		
Dip	Degrees	0.0	Maximum	meter	11
Dip Azimuth	Degree	0.0	Intermediate	meter	7
Pitch	Degree	31.5	Minimum	meter	1.0
Interpolant					
Sill	Meter	0.1	Type	--	Linear
Range	Meter	5.0	Drift	--	Constant
Accuracy	Meter	0.02	Noise	--	0.0
Isosurfaces and Volumes					
Intervals		Log_{10}(µg/L)	4.3, 5.0, 5.3, and 5.5		
Resolution		Meter	2		

7 Results/Conclusions

The interpolation of the points listed in Attachment A using Leapfrog-Geo and the parameters listed in Section 6 produced the maps of estimated concentrations shown in Figures 7-1 thru 7-15. The estimated contours are the result of the observed data and the input parameters described in Section 6. These estimated concentration values will be used as the initial concentration input parameter of the numerical fate and transport model.

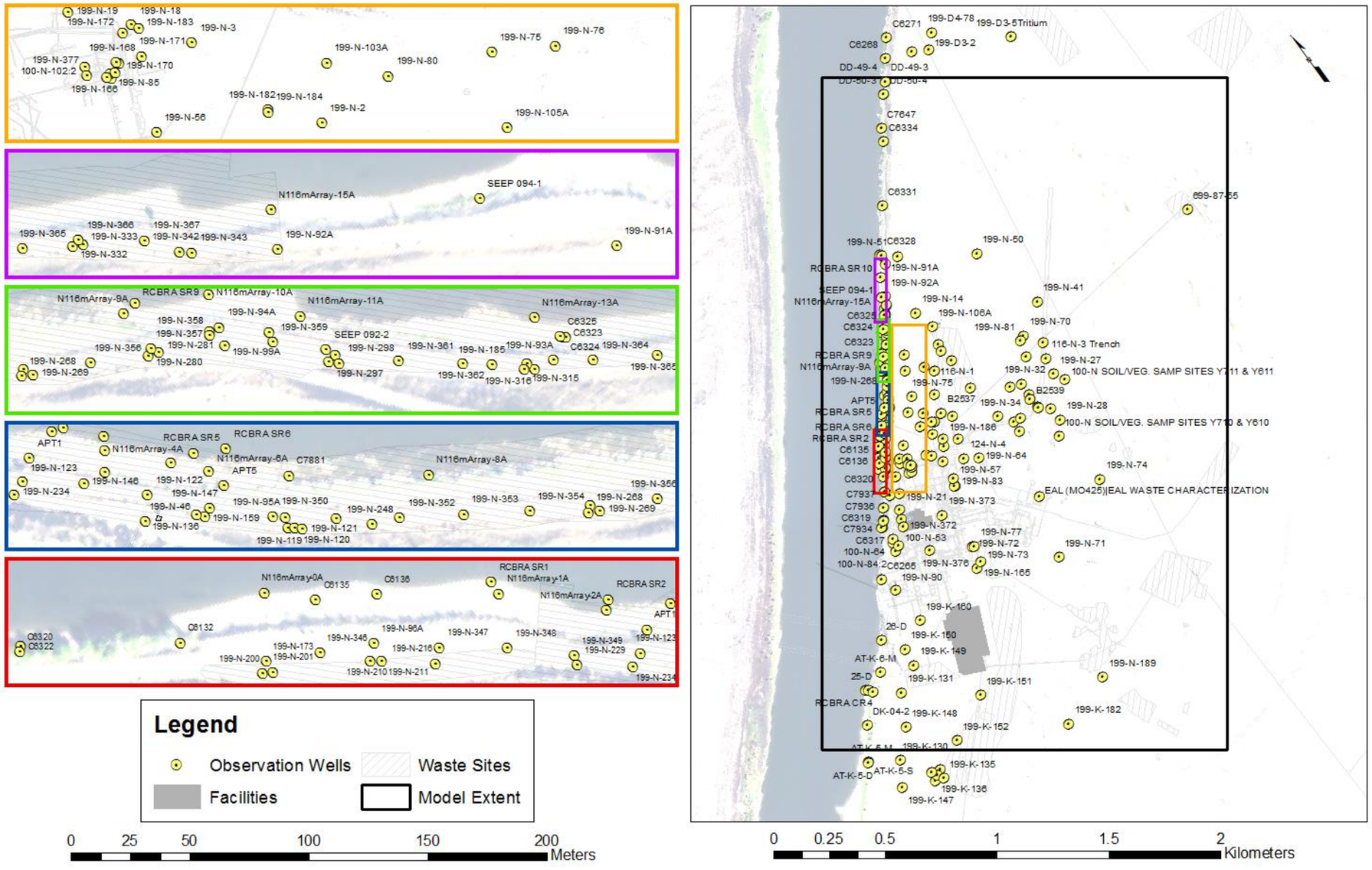

Figure 7-1. Location of observed data points used to estimate distribution of COCs within the unconfined aquifer near 100-NR-2 OU.

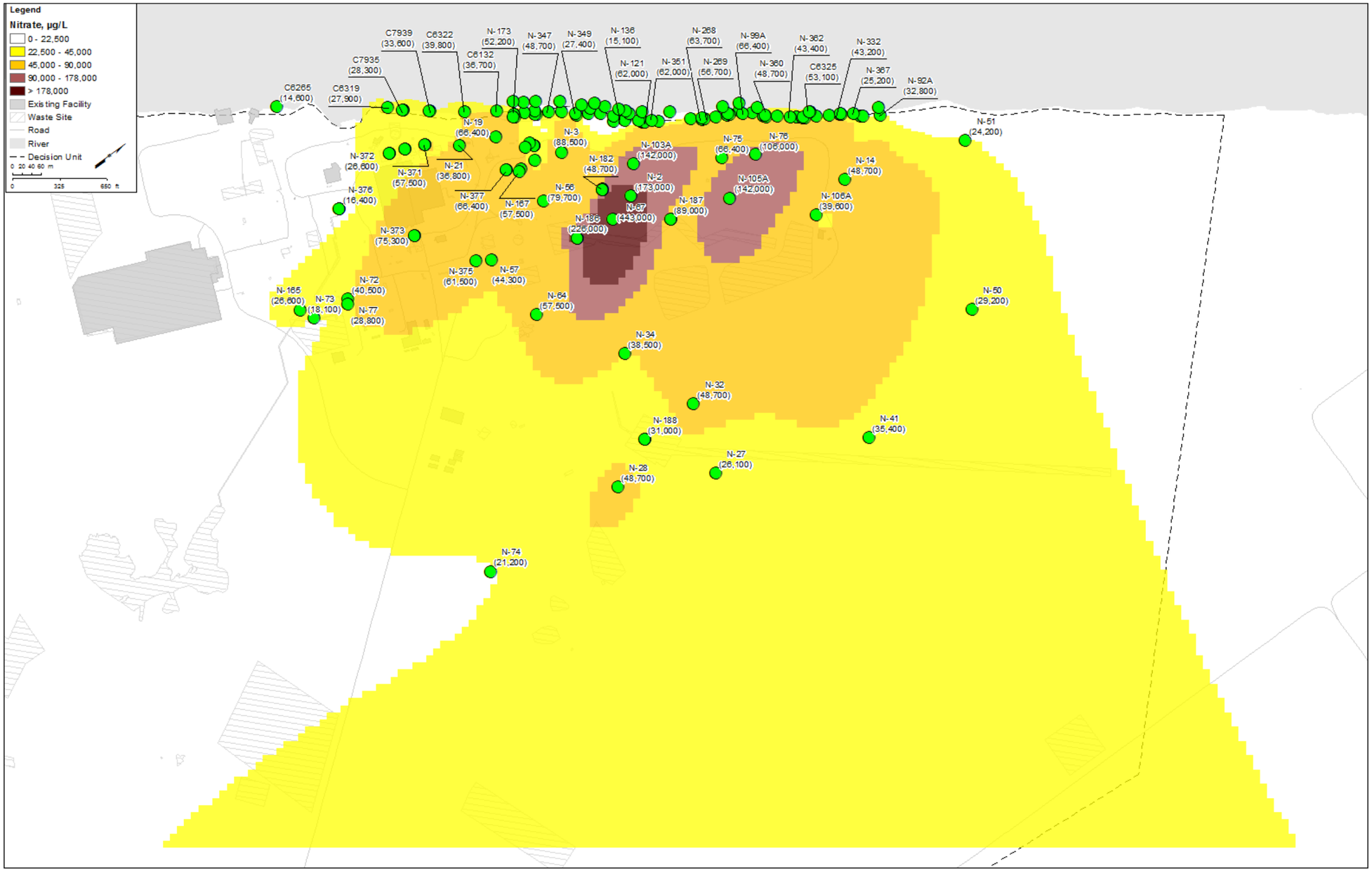

Figure 7-2. Initial saturated zone concentration best-estimate scenario for nitrate

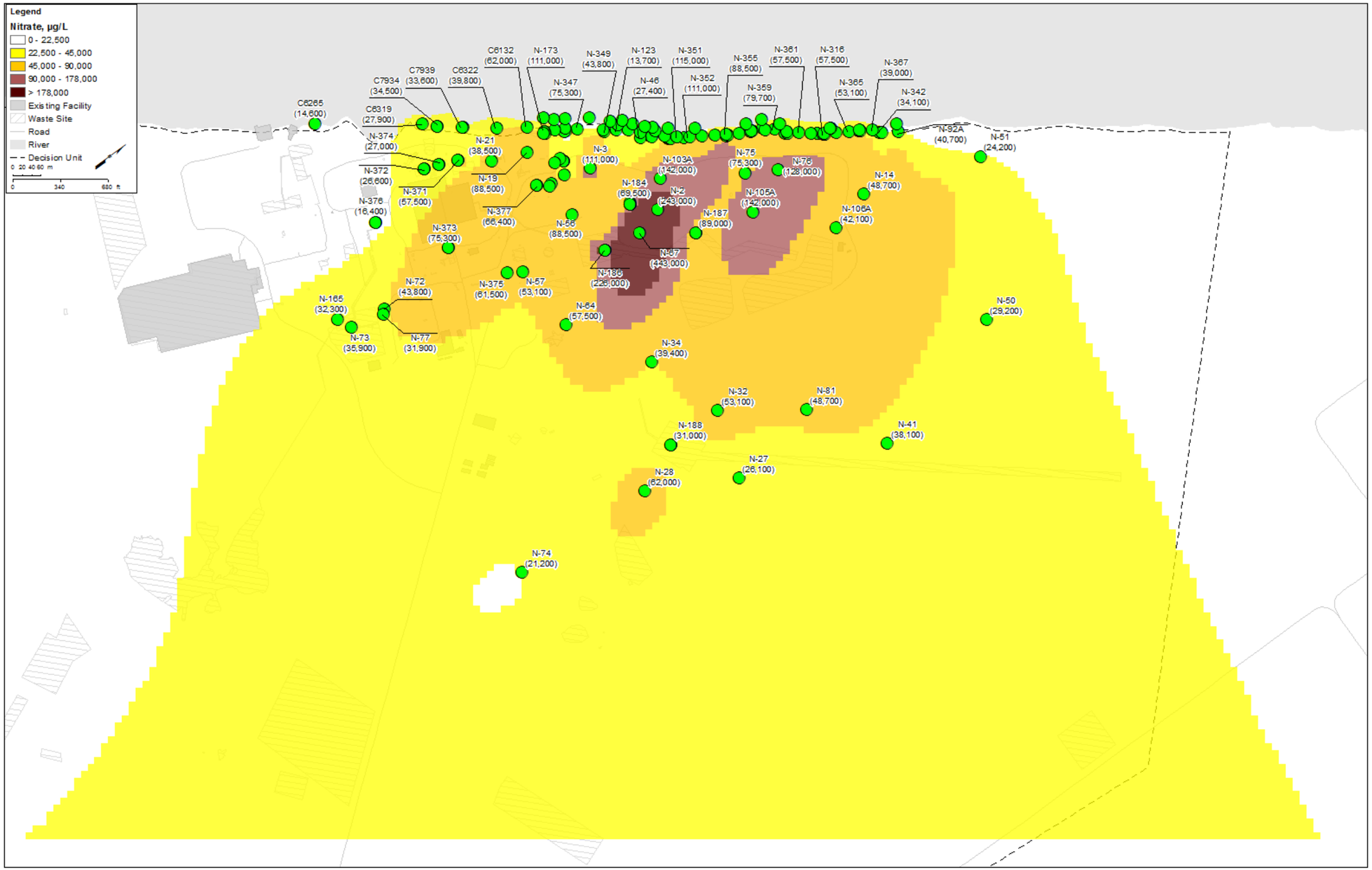

Figure 7-3. Initial saturated zone concentration maximum scenario for nitrate

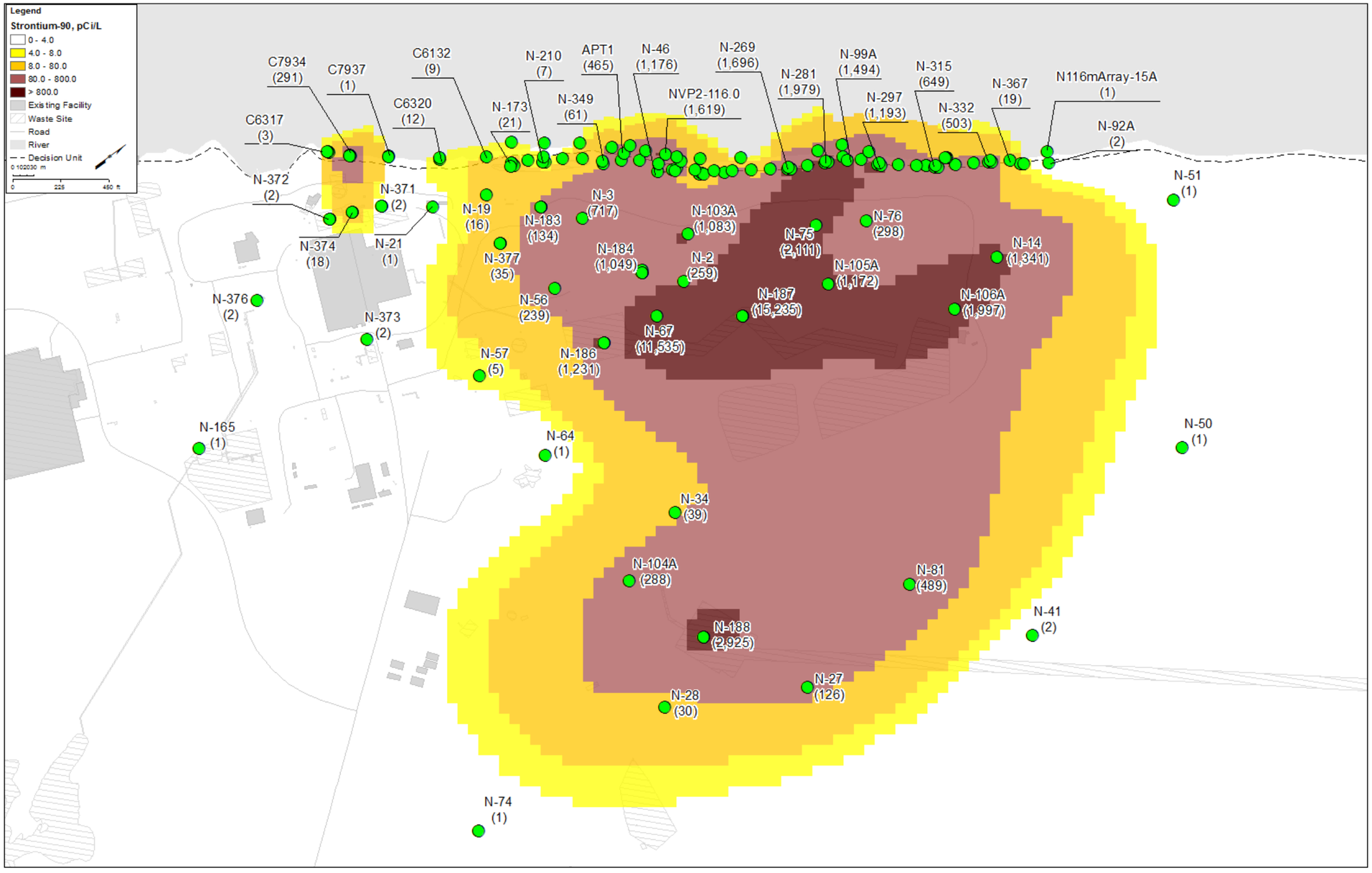

Figure 7-4. Initial saturated zone concentration best-estimate scenario for strontium-90

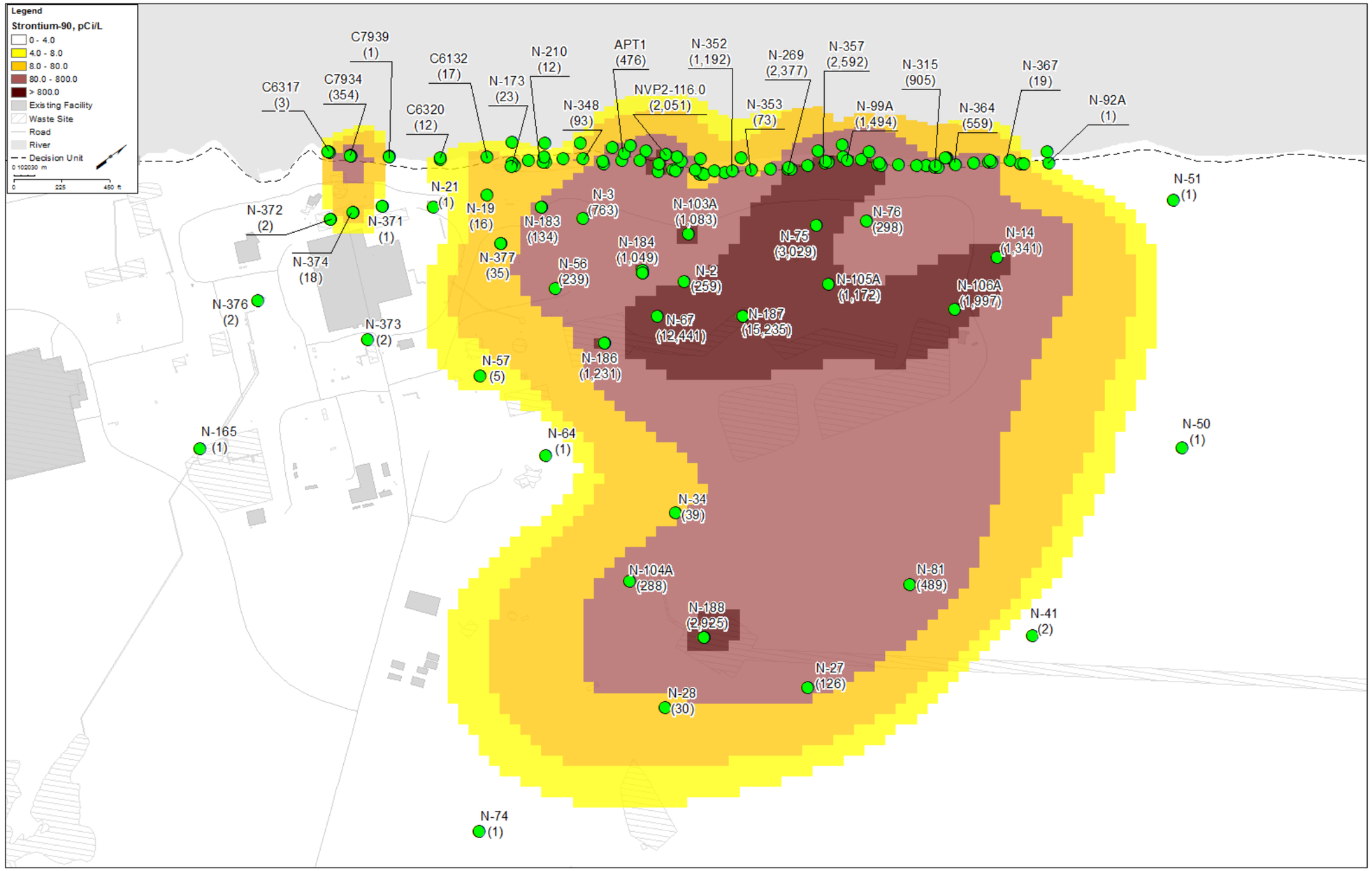

Figure 7-5. Initial saturated zone concentration maximum scenario for strontium-90

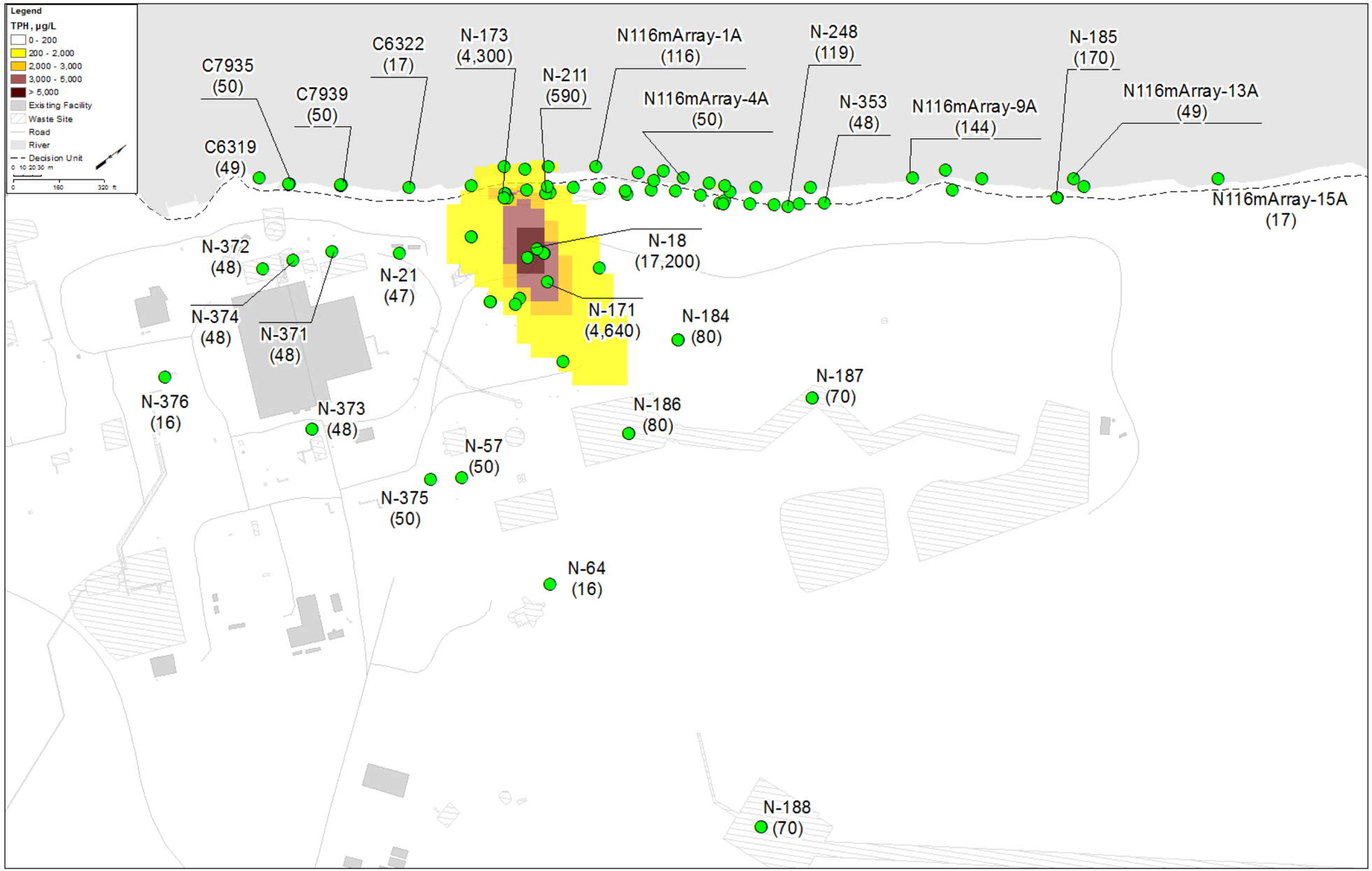

Figure 7-6. Initial saturated zone concentration best-estimate scenario for TPH-Diesel

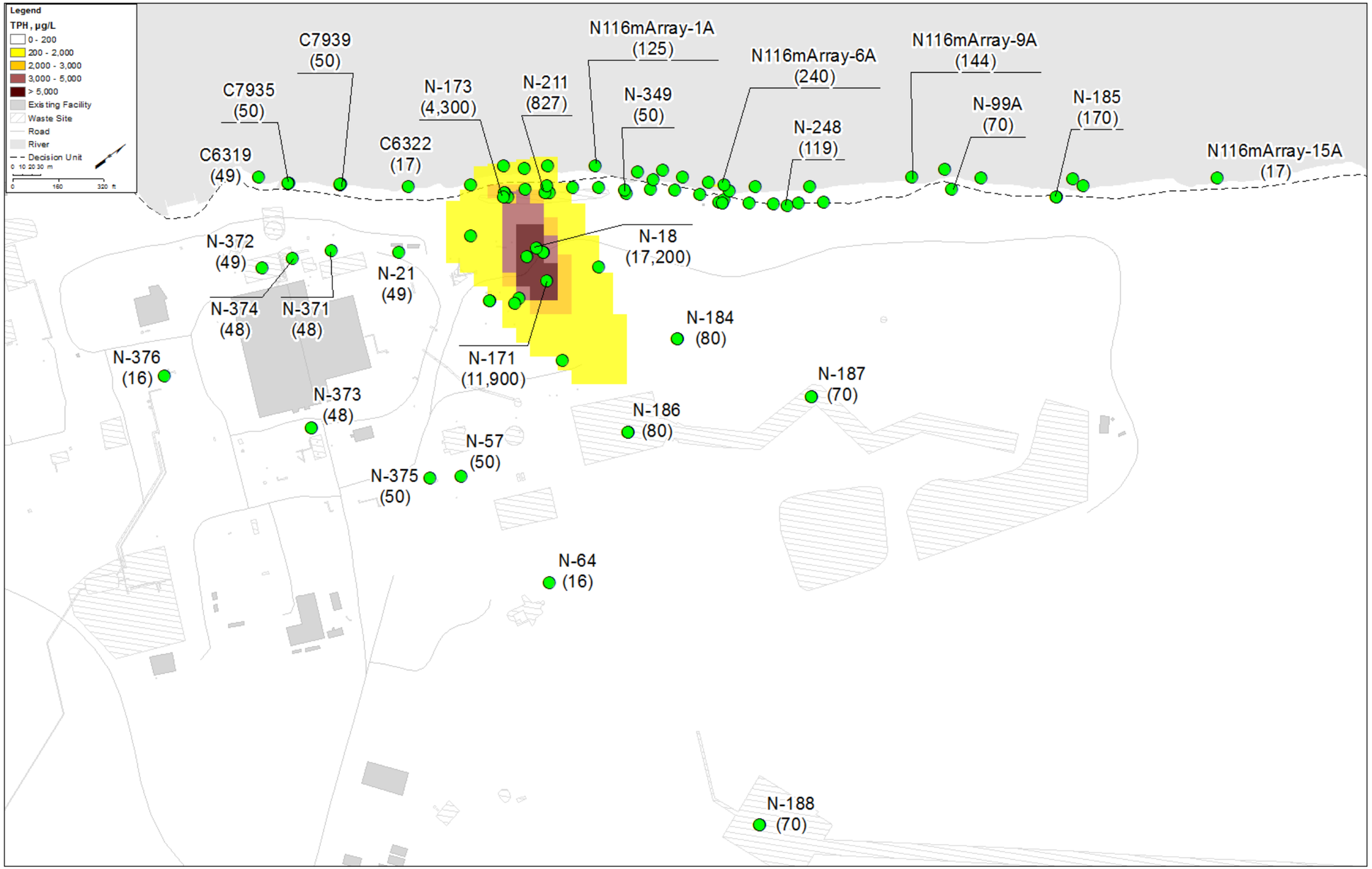

Figure 7-7. Initial saturated zone concentration maximum scenario for TPH-Diesel

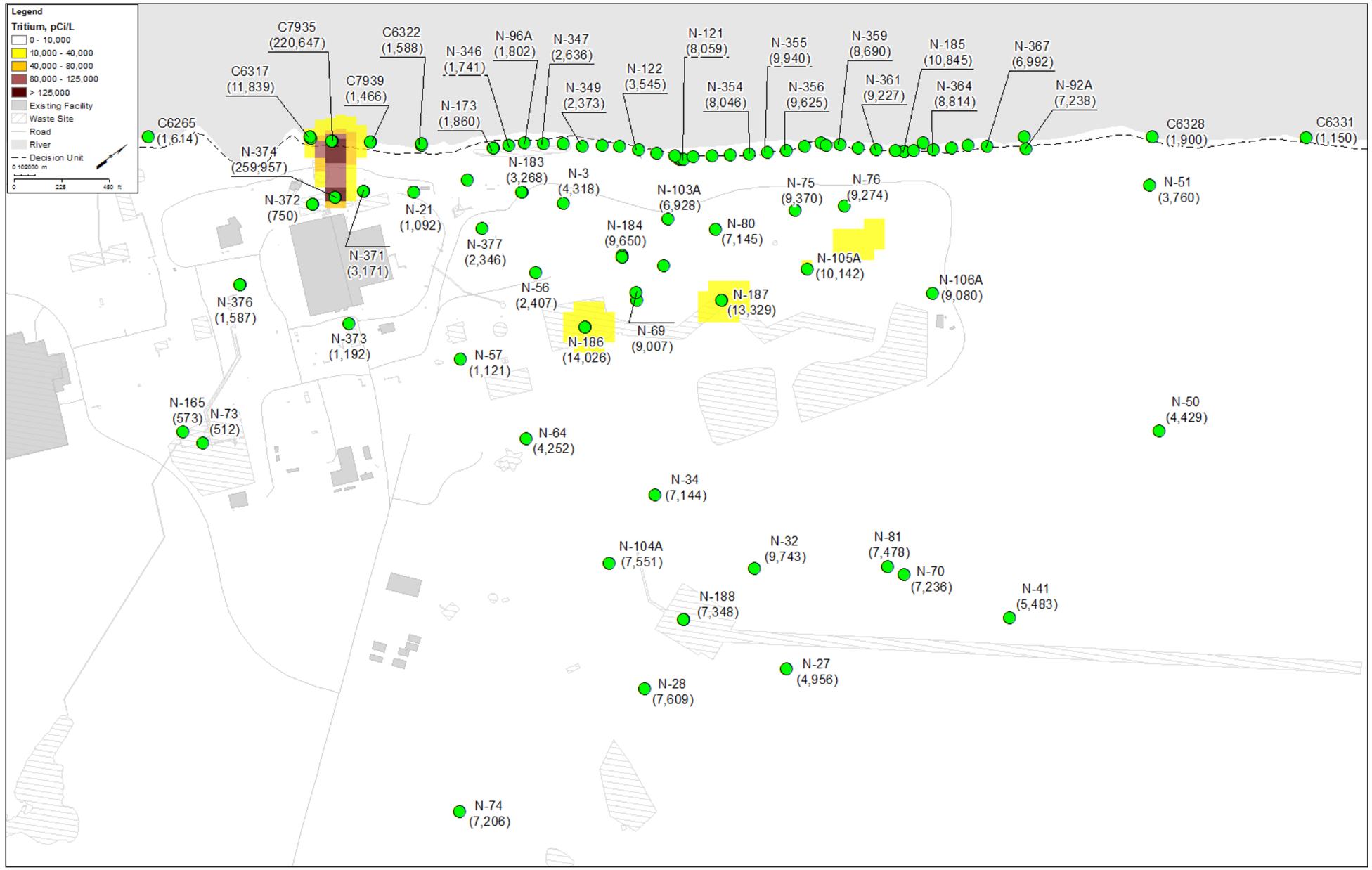

Figure 7-8. Initial saturated zone concentration best-estimate scenario for tritium

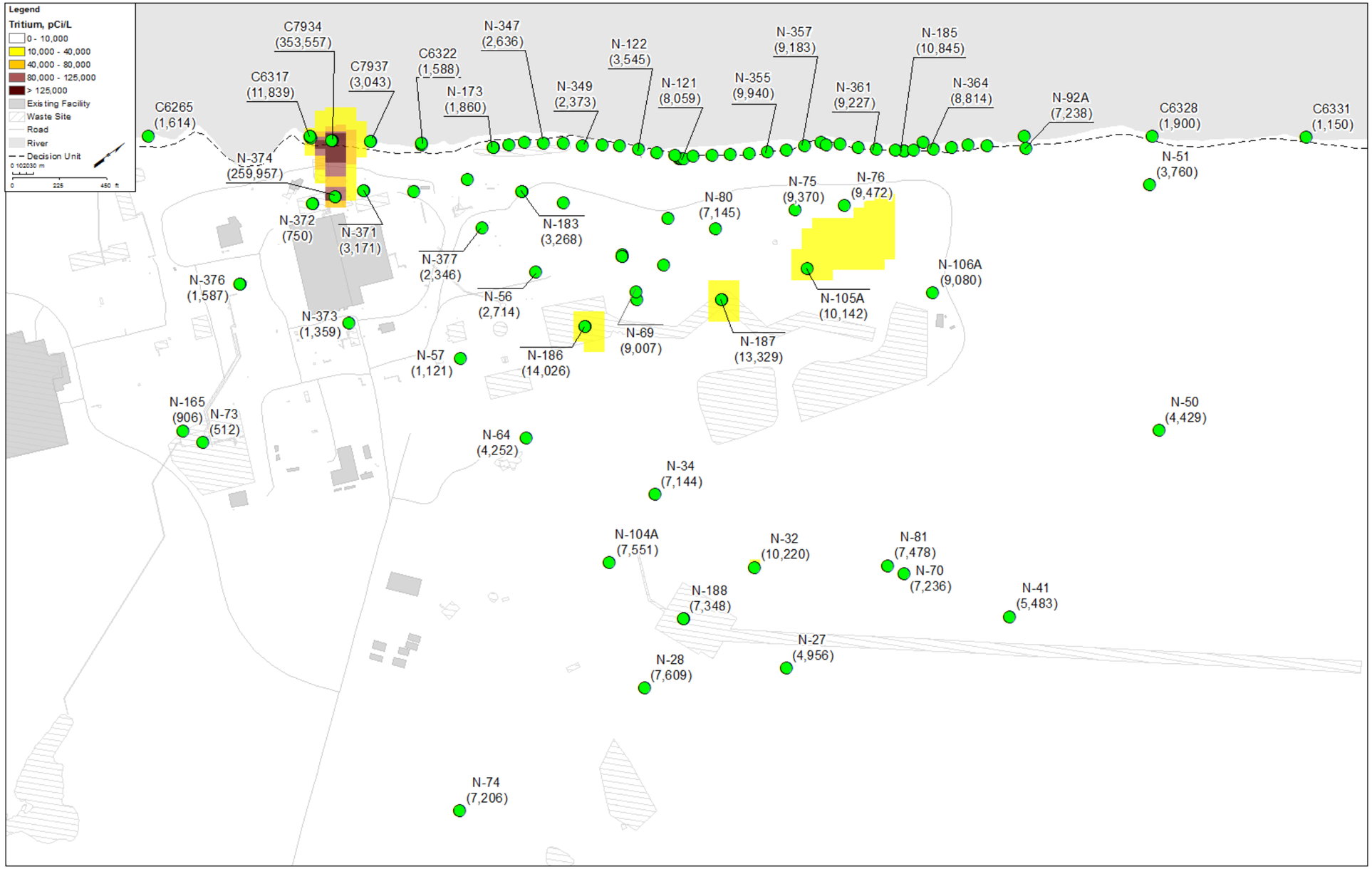

Figure 7-9. Initial saturated zone concentration maximum scenario for tritium

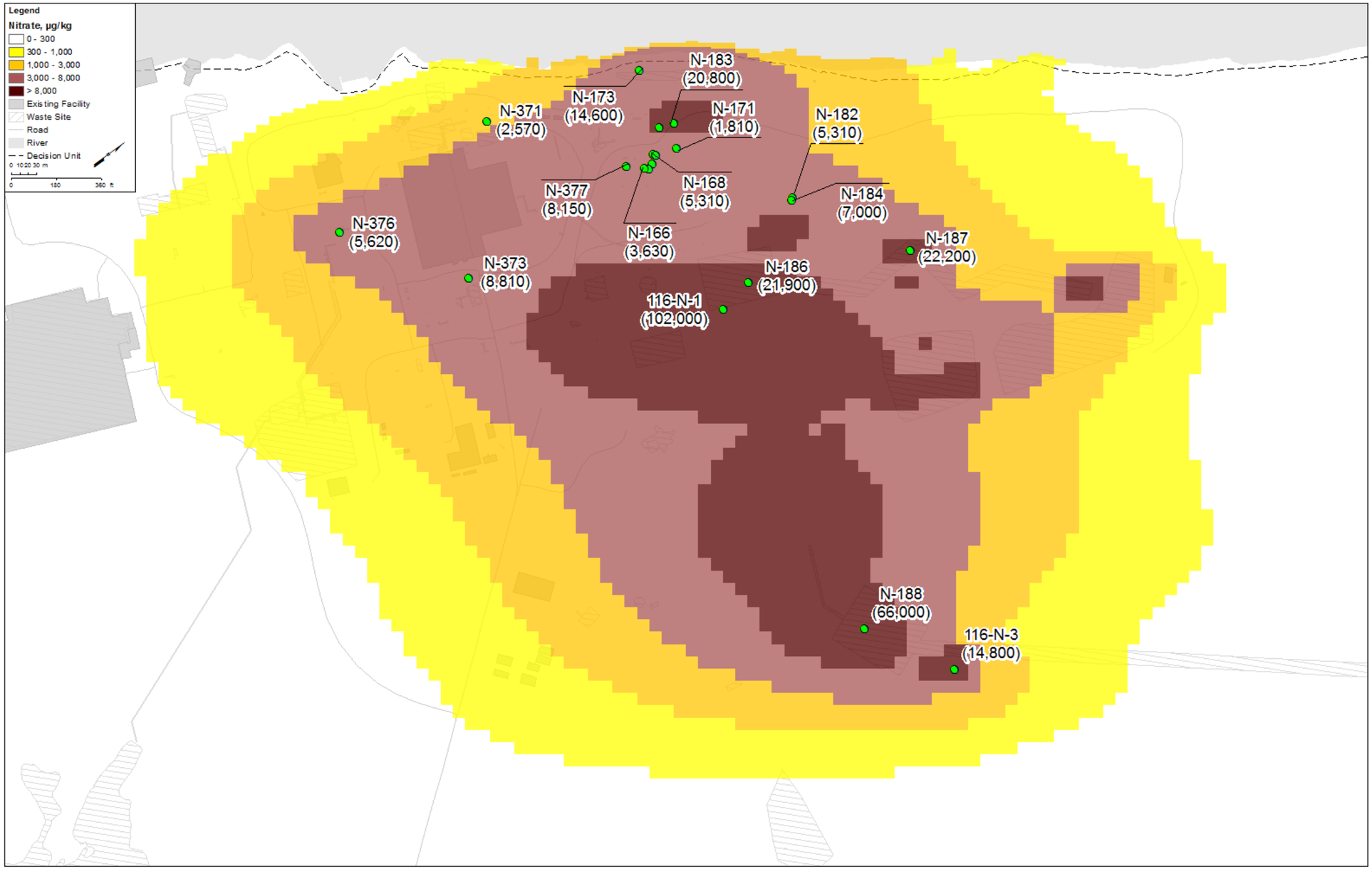

Figure 7-10. Vadose zone plume distribution for nitrate

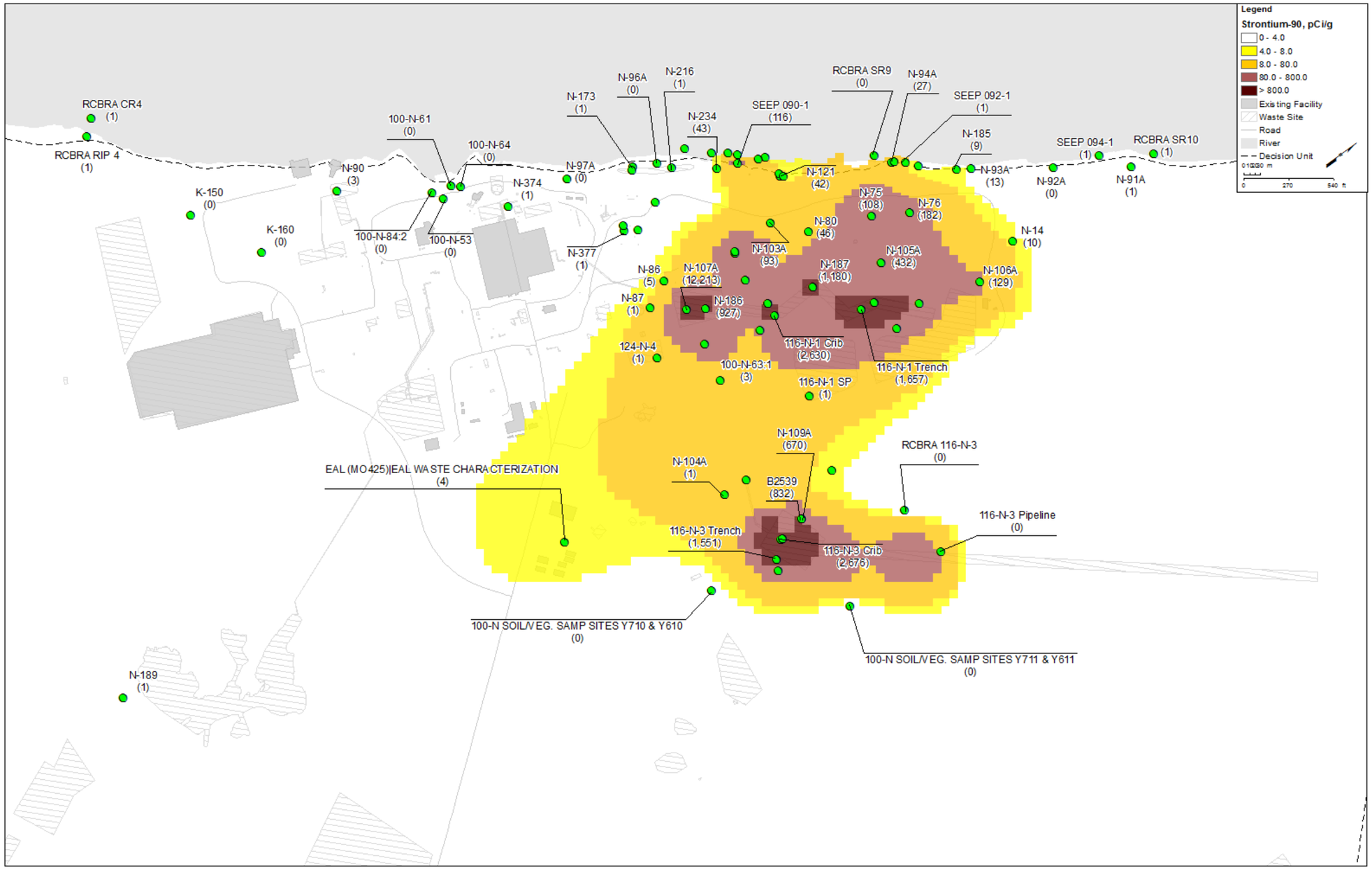

Figure 7-11. Vadose zone plume distribution for strontium-90

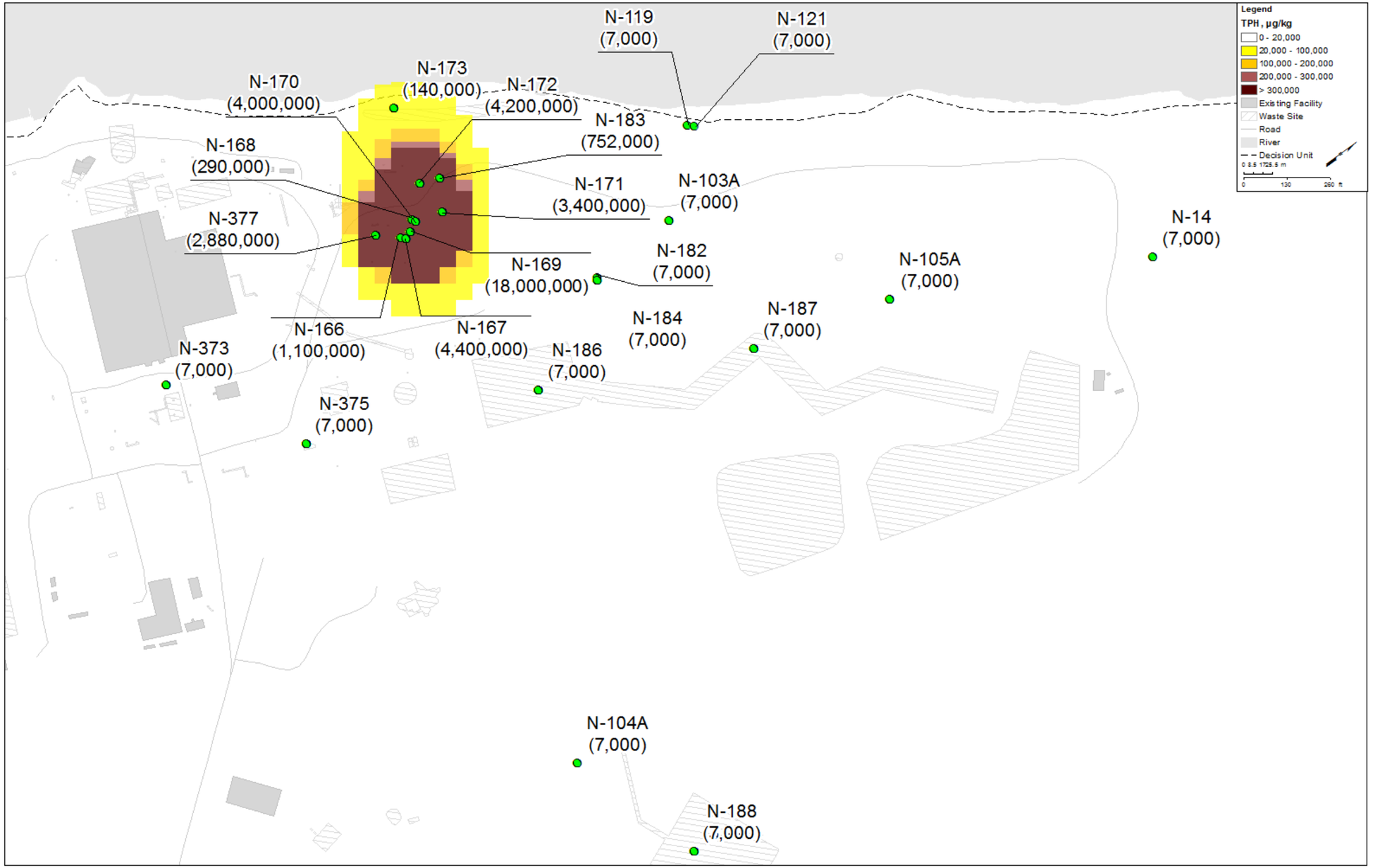

Figure 7-12. Vadose zone plume distribution for TPH-Diesel

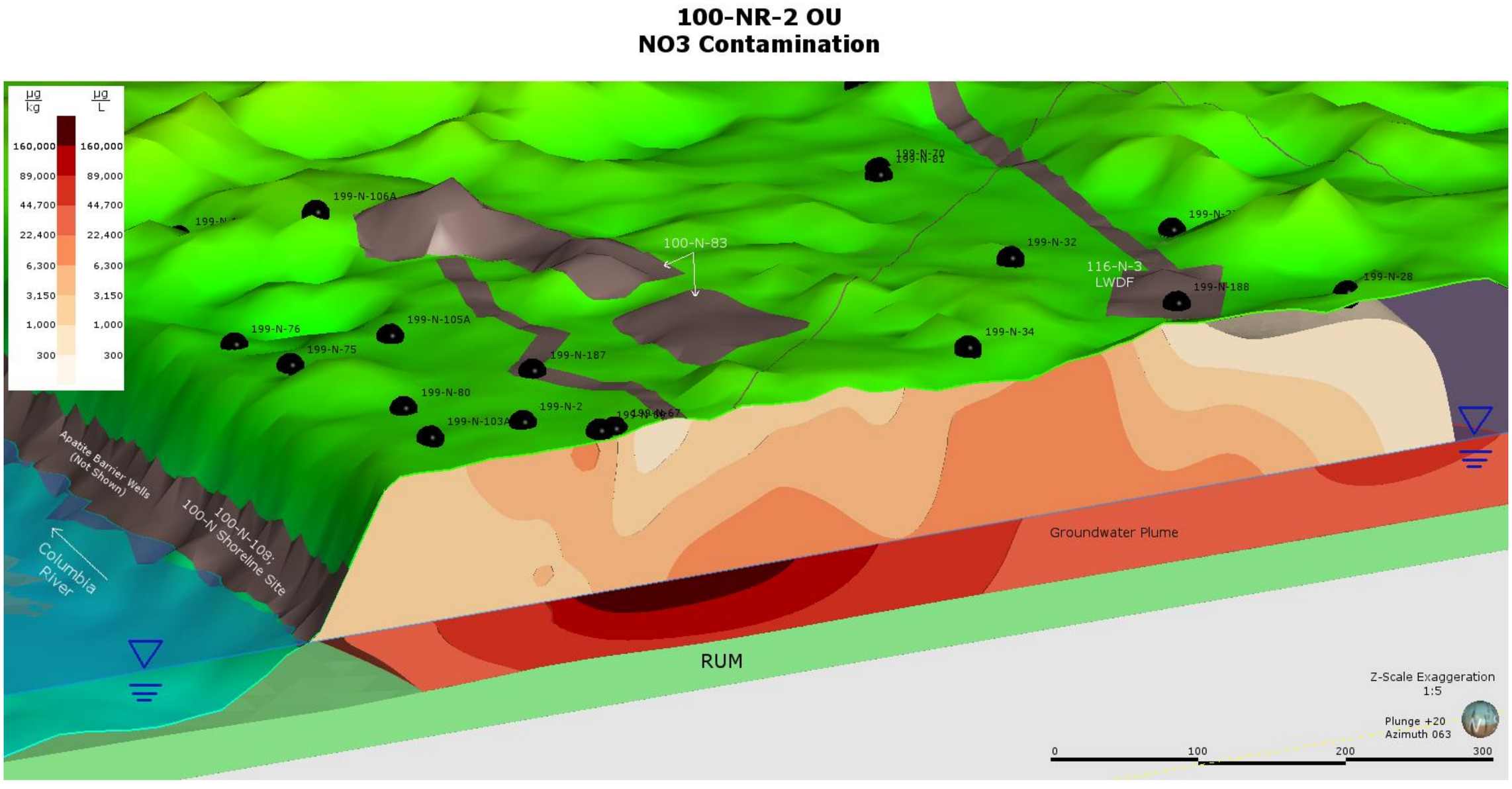

Figure 7-13. Cross-section of Nitrate plumes (vadose and saturated zones)

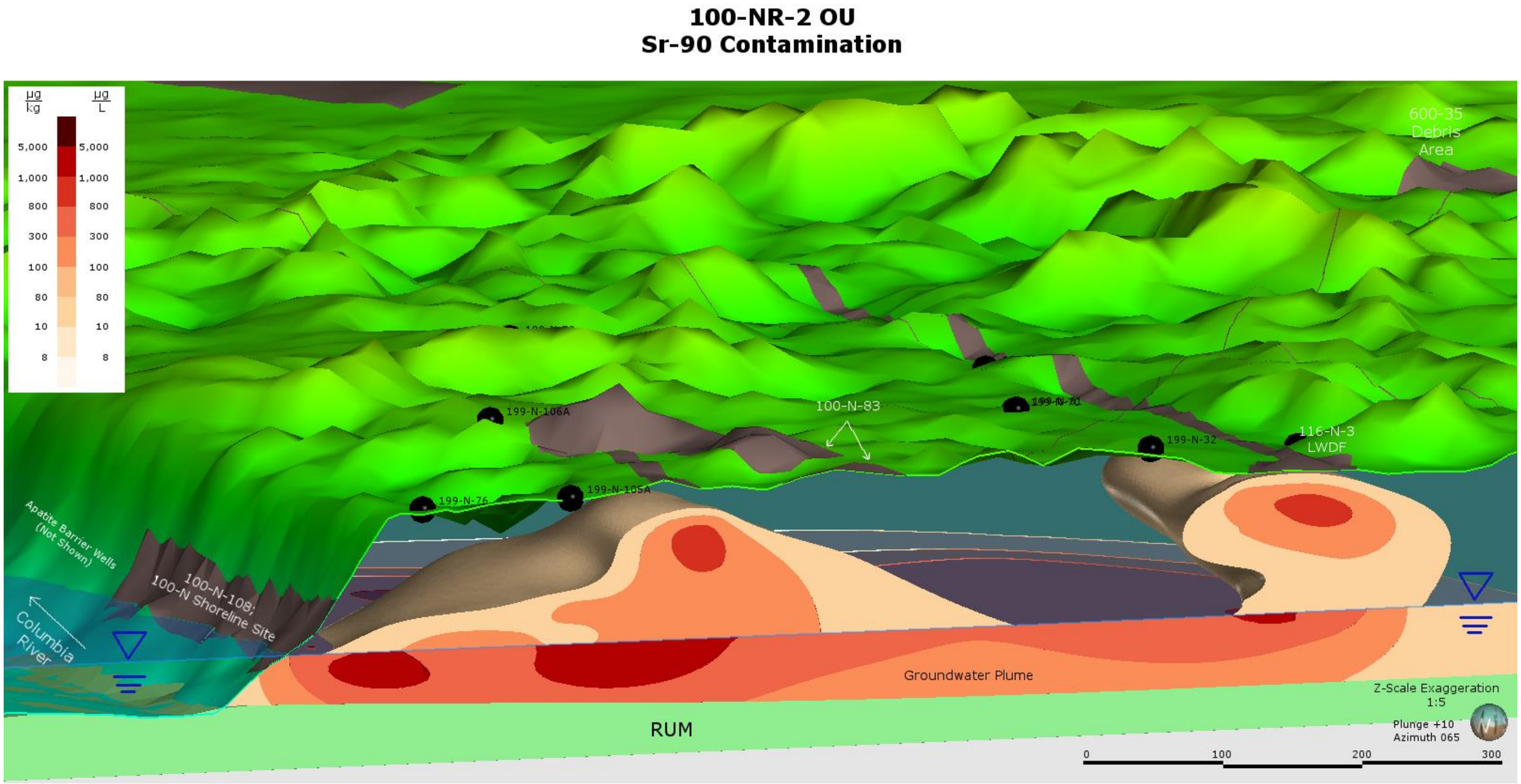

Figure 7-14. Cross-section of Sr-90 plumes (vadose and saturated zones)

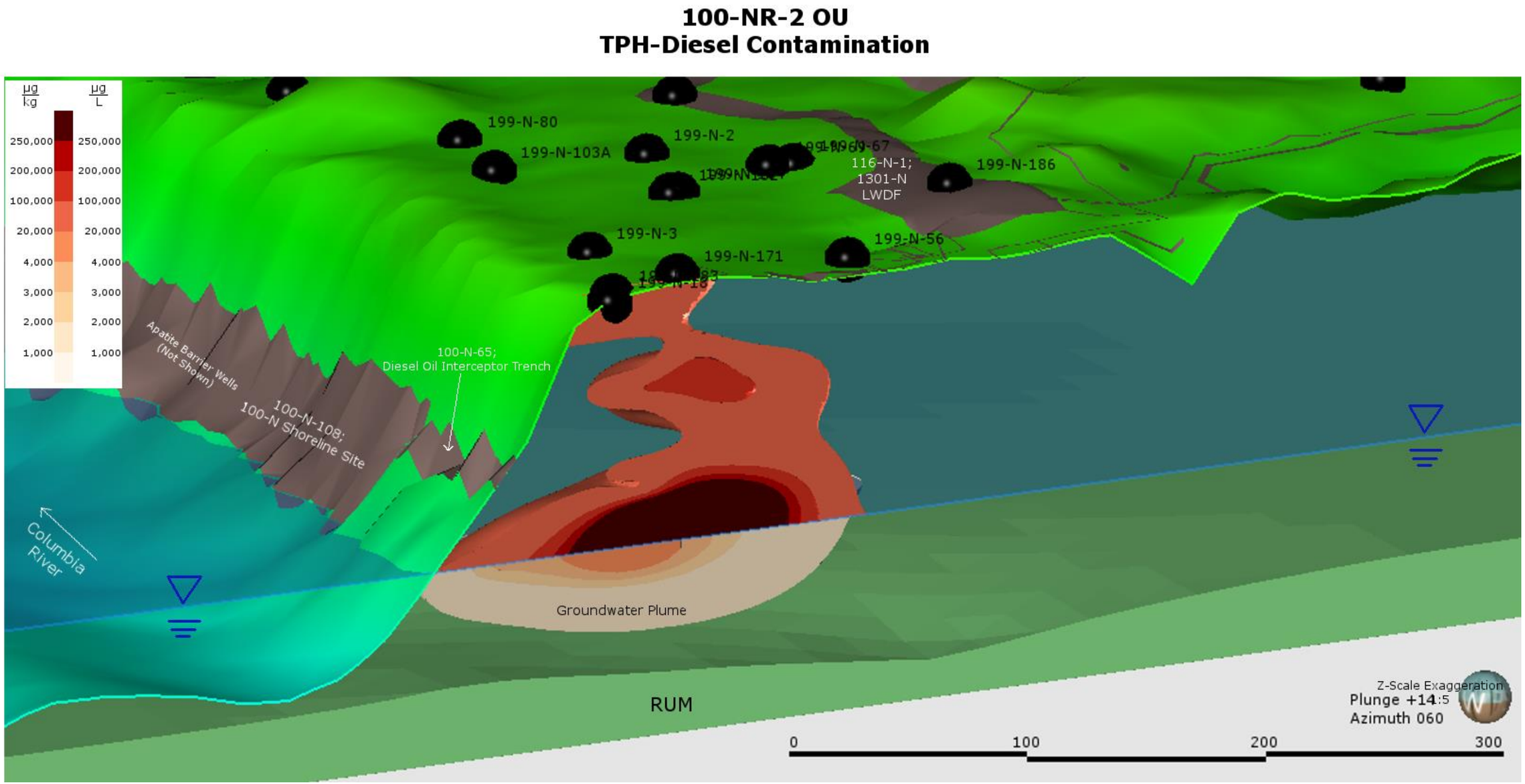

Figure 7-15. Cross-section of TPH-Diesel plumes (vadose and groundwater)

8 References

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Attachment A
HEIS query and Well ID's included in HEIS query

```
SELECT HEIS2_ADM_RESULT.SAMP_NUM,
HEIS2_ADM_SAMPLE.WELL_NAME,
HEIS2_ADM_SAMPLE.SAMP_DATE_TIME,
HEIS2_ADM_SAMPLE.FILTERED_FLAG, HEIS2_ADM_RESULT.STD_CON_ID,
[Copy Of HEIS2_ADM_CONSTITUENT].CON_LONG_NAME AS
STD_CON_LONG_NAME, HEIS2_ADM_RESULT.STD_VALUE_RPTD,
HEIS2_ADM_RESULT.STD_ANAL_UNITS_RPTD,
HEIS2_ADM_CONSTITUENT.CON_LONG_NAME,
HEIS2_ADM_CONSTITUENT.CON_ID, HEIS2_ADM_RESULT.VALUE_RPTD,
HEIS2_ADM_RESULT.ANAL_UNITS_RPTD,
HEIS2_ADM_RESULT.LAB_QUALIFIER,
HEIS2_ADM_RESULT.REVIEW_QUALIFIER,
HEIS2_ADM_RESULT.VALIDATION_QUALIFIER,
HEIS2_ADM_RESULT.LAB_CODE, HEIS2_ADM_RESULT.METHOD_NAME,
HEIS2_ADM_SAMPLE.MEDIA,
HEIS2_ADM_SAMPLE.ALTERNATE_SAMP_NUM,
HEIS2_ADM_RESULT.ANAL_DATE_TIME,
HEIS2_ADM_RESULT.ANALYSIS_BATCH_NUM,
HEIS2_ADM_SAMPLE.COLLECTION_PURPOSE,
HEIS2_ADM_RESULT.DILUT_FACTOR,
HEIS2_ADM_RESULT.DISTILLATION_VOL,
HEIS2_ADM_SAMPLE.END_FLOW_RATE_OR_VOLUME AS END_FLOW_RATE,
HEIS2_ADM_SAMPLE.EXPOSURE_HOURS,
HEIS2_ADM_SAMPLE.FIELD_QC_TYPE,
HEIS2_ADM_SAMPLE.FLOW_RATE_OR_VOLUME_UNITS AS
FLOW_RATE_UNITS, HEIS2_ADM_RESULT.LAB_COMMENT_CD,
HEIS2_ADM_RESULT.LAB_EXTRACTED_DATE,
HEIS2_ADM_RESULT.LAB_MATRIX_CODE,
HEIS2_ADM_SAMPLE.LAB_QC_TYPE,
HEIS2_ADM_RESULT.LAB_RECEIVED_DATE,
HEIS2_ADM_RESULT.LOAD_DATE_TIME, HEIS2_ADM_SAMPLE.MATRIX,
HEIS2_ADM_RESULT.MIN_DETECTABLE_ACTIVITY,
HEIS2_ADM_RESULT.MOISTURE_DEC, HEIS2_ADM_RESULT.OWNER_ID,
HEIS2_ADM_RESULT.PCNT_MOISTURE, HEIS2_ADM_RESULT.PCNT_SOLIDS,
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HEIS2_ADM_RESULT.REPORTING_LIMIT_TYPE,
HEIS2_ADM_RESULT.REQUIRED_DETECTION_LIMIT,
HEIS2_ADM_RESULT.RESULT_COMMENT,
HEIS2_ADM_RESULT.RESULT_RECEIVED_DATE,
HEIS2_ADM_RESULT.RETENTION_TIME, HEIS2_ADM_RESULT.RRN,
HEIS2_ADM_SAMPLE.SAF_NUM,
HEIS2_ADM_RESULT.SAMP_ALIQUOT_SIZE,
HEIS2_ADM_RESULT.SAMP_ALIQUOT_UNITS,
HEIS2_ADM_SAMPLE.SAMP_COMMENT,
HEIS2_ADM_SAMPLE.SAMP_DATE_TIME_ON,
HEIS2_ADM_SAMPLE.SAMP_FROM,
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HEIS2_ADM_SAMPLE.SAMP_INTERVAL_TOP,
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HEIS2_ADM_SAMPLE.SAMP_ITEM, HEIS2_ADM_SAMPLE.SAMP_MTHD,
HEIS2_ADM_RESULT.SDG_NUM,
HEIS2_ADM_SAMPLE.START_FLOW_RATE_OR_VOLUME AS
STARTE_FLOW_RATE, HEIS2_ADM_RESULT.STD_COUNTING_ERROR,
HEIS2_ADM_RESULT.STD_MDA,
HEIS2_ADM_RESULT.STD_REPORTING_LIMIT,
HEIS2_ADM_RESULT.STD_REQUIRED_DETECTION_LIMIT,
HEIS2_ADM_SAMPLE.STD_SAMP_INTV_BOT,
HEIS2_ADM_SAMPLE.STD_SAMP_INTV_TOP,
HEIS2_ADM_SAMPLE.STD_SAMP_INTV_UNITS,
HEIS2_ADM_RESULT.STD_TOTAL_ANAL_ERROR,
HEIS2_ADM_SAMPLE.TAG_ID, HEIS2_ADM_RESULT.TIC_FLAG,
HEIS2_ADM_RESULT.TOTAL_ANAL_ERROR,
WELL_ADM_WELL_ATTRIBUTES_MV.EASTING,
WELL_ADM_WELL_ATTRIBUTES_MV.NORTHING INTO 100NConcData

FROM Constituents INNER JOIN ((((((HEIS2_ADM_SAMPLE INNER JOIN
HEIS2_ADM_RESULT ON HEIS2_ADM_SAMPLE.SAMP_NUM =
HEIS2_ADM_RESULT.SAMP_NUM) INNER JOIN
(HEIS2_ADM_CONSTITUENT_CODE INNER JOIN HEIS2_ADM_METHOD ON
HEIS2_ADM_CONSTITUENT_CODE.METHOD_NAME =
HEIS2_ADM_METHOD.METHOD_NAME) ON (HEIS2_ADM_RESULT.CON_ID =
HEIS2_ADM_CONSTITUENT_CODE.CON_ID) AND
(HEIS2_ADM_RESULT.METHOD_NAME =
HEIS2_ADM_CONSTITUENT_CODE.METHOD_NAME)) INNER JOIN
HEIS2_ADM_CONSTITUENT ON HEIS2_ADM_CONSTITUENT_CODE.CON_ID =
HEIS2_ADM_CONSTITUENT.CON_ID) INNER JOIN [Copy Of
HEIS2_ADM_CONSTITUENT] ON HEIS2_ADM_RESULT.STD_CON_ID = [Copy
Of HEIS2_ADM_CONSTITUENT].CON_ID) INNER JOIN
WELL_ADM_WELL_ATTRIBUTES_MV ON
HEIS2_ADM_SAMPLE.WELL_NAME =
WELL_ADM_WELL_ATTRIBUTES_MV.WELL_NAME) INNER JOIN WellList ON
WELL_ADM_WELL_ATTRIBUTES_MV.WELL_ID = WellList.WELL_ID) ON
Constituents.[CAS No] = HEIS2_ADM_RESULT.CON_ID;
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Well ID	Well ID	Well ID	Well ID	Well ID	Well ID
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C9429	C7383	C7647	C7425	C7350	C7371
C9425	C7384	C7404	C7428	C7356	C7449
C9403	C7452	C7405	C7429	C7440	C7369
C9402	C7387	C7406	C7427	C7441	C7365
C9401	C7385	C7407	C7430	C7442	C7367
C9400	C7388	C7456	C7463	C7304	C7363
C9410	C7389	C7408	C7431	C7303	C7361
C8189	C7390	C7409	C7432	C7302	C7448
C8190	C7646	C7410	C7412	C7305	C7357
C8186	C7645	C7411	C7426	C7307	C7359
C8191	C7391	C7413	C7386	C7308	C7355
C8188	C7648	C7414	C7398	C7310	C7447
C8184	C7453	C7439	C7380	C7306	C7353
C8185	C7392	C7415	C7378	C7309	C7446
C8187	C7393	C7457	C7374	C7433	C7351
C7620	C7395	C7416	C7376	C7434	C7348
C7881	C7394	C7417	C7372	C7438	C7349
C7882	C7396	C7418	C7370	C7436	C7347
C7939	C7454	C7419	C7368	C7435	C7346
C7937	C7397	C7458	C7366	C7437	C7344
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C7381	C7399	C7420	C7364	C7379	C7445
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Well ID	Well ID	Well ID	Well ID	Well ID	Well ID
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C7714	C7334	C7321	C6264	C6322	C5514
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C7339	C7328	C7325	C6334	C6318	C5324
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C5268	C5258	C4588	B8517	A4713	A4689
C5262	C5260	C4334	B8515	A4711	A4686
C5045	C5259	C4332	B8516	A4709	A4688
C5044	C5254	C4333	B8513	A4702	A4691
C5037	C5246	C4330	B8518	A4707	A4685
C5035	C5248	C4331	B8511	A4705	A4684
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C5033	C4736	C3311	B8527	A4708	A4683
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C5032	C4734	C3309	A9989	A4699	A4682
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C5266	C4892	C3304	A9882	A4693	A4667
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C5252	C4640	B8760	A4719	A5835	A4672
C5253	C4590	B8226	A4716	A5829	A4674
C5251	C4587	B8227	A4715	A5832	A4673
C5255	C4586	B8228	A4714	A5830	A4675

Well ID	Well ID	Well ID	Well ID	Well ID
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A9043	A9527	A4679	C3152	A9879
A9036	A5823	A9543	A9847	A9881
A9046	A9531	A4669	A5838	C3159
A9035	A5825	A9533	A9883	C3160
A9034	A9530	A5813	A9885	B2537
A9047	A5821	A9534	A8996	C7292
A9045	A5818	A9532	C3157	A5842
A9044	A4721	A9549	C3158	A9880
A9016	A5819	A9548	A5839	A5833
A9037	A5820	A5814	C3162	C4098
A9039	A5817	A9550	C4584	
A9042	A5816	A5338	A5841	
A9033	A5815	A9767	C4094	
A9040	A4703	A9768	C3164	
A9015	A9547	A9059	C4992	
A9038	A9546	A5555	A5840	
A9041	A9536	A9051	A5843	
A5346	A9542	B2536	C5041	
A5826	A9537	A9504	C4095	
A4664	A9538	B2539	C8736	
A5822	A9539	A5845	A9877	
A9452	A9535	C4096	B2740	
A9551	A9544	C4991	C4097	
A5824	A9545	C5710	C3161	
A9529	A9540	C8304	C3163	

Attachment B
Soil Quality Data used for Developing Initial Plume Conditions in the Vadose Zone

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571424.81	149903.69	123.33	199-N-103A	2/1/1995	0.56	0.34	pCi/g		103A/Sr/55-57 (a)
571424.81	149903.69	121.80	199-N-103A	2/2/1995	2.54	1.54	pCi/g		103A/Sr/60.5-62 (a)
571424.81	149903.69	120.43	199-N-103A	2/3/1995	119	72.34	pCi/g		103A/Sr/65-67 (a)
571424.81	149903.69	118.76	199-N-103A	2/7/1995	80.322	48.84	pCi/g		103A/sr/70-72 (a)
571424.81	149903.69	117.23	199-N-103A	2/8/1995	3.194	1.94	pCi/g		103A/Sr/75-77 (a)
571424.81	149903.69	114.11	199-N-103A	2/22/1995	0.621	0.38	pCi/g		103A/Sr/85-87 (a)
571424.81	149903.69	115.48	199-N-103A	2/9/1995	0.88	0.54	pCi/g		103A/Sr90/80-82 (a)
571424.81	149903.69	110.98	199-N-103A	3/2/1995	0.41	0.25	pCi/g		103A/Sr90/95-97 (a)
571602.31	150024.95	117.83	199-N-105A	3/31/1995	112	68.34	pCi/g		105A/20-22 (a)
571602.31	150024.95	123.92	199-N-105A	3/24/1995	503	306.77	pCi/g		105A/51-53 (a)
571602.31	150024.95	121.18	199-N-105A	3/28/1995	149	90.89	pCi/g		105A/59.5-61.5 (a)
571602.31	150024.95	119.35	199-N-105A	3/30/1995	91	55.52	pCi/g		105A/65-67 (a)
571602.31	150024.95	116.91	199-N-105A	4/6/1995	70	42.73	pCi/g		105A/74-75.5 (a)
571602.31	150024.95	115.08	199-N-105A	4/12/1995	11.5	7.02	pCi/g		105A/80-81.5 (a)

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571602.31	150024.95	111.88	199-N-105A	4/17/1995	2.9	1.77	pCi/g		105A/90-92 (a)
571602.31	150024.95	110.21	199-N-105A	4/18/1995	0.8	0.49	pCi/g		105A/95-97 (a)
571560.06	150122.13	137.09	199-N-76	4/13/1992	0.75	0.75	pCi/g	U	B06835
571560.06	150122.13	136.18	199-N-76	4/13/1992	0.76	0.76	pCi/g	U	B06836
571523.56	150060.72	138.57	199-N-75	4/14/1992	0.83	0.83	pCi/g	U	B06837
571523.56	150060.72	137.65	199-N-75	4/14/1992	0.79	0.79	pCi/g	U	B06838
571523.56	150060.72	136.59	199-N-75	4/14/1992	0.8	0.8	pCi/g	U	B06839
571560.06	150122.13	130.39	199-N-76	4/16/1992	0.9	0.9	pCi/g	U	B06841
571560.06	150122.13	120.79	199-N-76	4/22/1992	320	182.07	pCi/g		B06842
571523.56	150060.72	122.11	199-N-75	4/23/1992	190	108.11	pCi/g		B06843
571560.06	150122.13	117.89	199-N-76	4/23/1992	0.89	0.89	pCi/g	U	B06844
571523.56	150060.72	118.30	199-N-75	4/24/1992	120	68.28	pCi/g		B06845
571300.00	149920.00	119.19	SEEP 090-1	10/15/1991	207	116.32	pCi/g		B06KV2
571465.00	150150.00	121.70	SEEP 091-2	10/15/1991	24.5	13.77	pCi/g		B06KV7
571480.00	150170.00	121.37	SEEP 092-1	10/18/1991	0.6	0.6	pCi/g	U	B06KW2
571500.00	150185.00	122.02	SEEP 092-2	10/18/1991	0.4	0.4	pCi/g	U	B06KW7
571680.00	150465.00	118.83	SEEP 094-1	10/17/1991	0.6	0.6	pCi/g	U	B06KX2
571477.56	149950.84	124.07	199-N-80	7/22/1992	28	16.03	pCi/g	J	B06M37
571477.56	149950.84	138.31	199-N-80	7/10/1992	2.2	2.2	pCi/g	U	B06M58
571477.58	149950.85	125.59	199-N-80	7/22/1992	0.83	0.83	pCi/g	UJ	B06M60
571477.56	149950.84	121.94	199-N-80	7/24/1992	52	29.76	pCi/g		B072P4

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571477.56	149950.84	118.58	199-N-80	7/28/1992	81	46.38	pCi/g		B072P5
571477.56	149950.84	116.45	199-N-80	7/28/1992	43	24.62	pCi/g		B072P7
571477.56	149950.84	109.94	199-N-80	7/31/1992	1.6	0.92	pCi/g		B072P9
571291.79	149700.29	135.95	199-N-85	1/5/1993	0.6	0.6	pCi/g	U	B07QB7
571395.77	149683.33	136.30	199-N-86	12/8/1992	0.8	0.8	pCi/g	U	B07QB8
571395.77	149683.33	134.47	199-N-86	12/9/1992	8	4.62	pCi/g		B07QB9
571395.77	149683.33	132.95	199-N-86	12/9/1992	0.9	0.9	pCi/g	U	B07QC0
571420.72	149633.03	138.77	199-N-87	12/16/1992	0.8	0.8	pCi/g	U	B07QD7
571420.72	149633.03	135.95	199-N-87	12/16/1992	0.7	0.7	pCi/g	U	B07QD8
571420.72	149633.03	134.58	199-N-87	12/17/1992	0.8	0.8	pCi/g	U	B07QD9
571420.72	149633.03	133.06	199-N-87	12/17/1992	1	1	pCi/g	U	B07QF0
571291.79	149700.29	134.66	199-N-85	1/6/1993	0.9	0.9	pCi/g	U	B07SX4
571291.79	149700.29	133.13	199-N-85	1/6/1993	0.8	0.8	pCi/g	U	B07WV1
571291.79	149700.29	131.68	199-N-85	1/7/1993	1	1	pCi/g	U	B07WV5
571291.79	149700.29	125.59	199-N-85	1/8/1993	0.8	0.8	pCi/g	U	B07WV7
571291.79	149700.29	124.06	199-N-85	1/15/1993	0.8	0.8	pCi/g	U	B07WX0
571291.79	149700.29	122.54	199-N-85	1/18/1993	0.8	0.8	pCi/g	U	B07WX1
571291.79	149700.29	121.01	199-N-85	1/19/1993	0.61	0.35	pCi/g	J	B07WX2
571291.79	149700.29	119.49	199-N-85	1/20/1993	0.56	0.32	pCi/g	J	B07WX3
571291.79	149700.29	118.50	199-N-85	1/21/1993	1.1	0.64	pCi/g	J	B07WX4
571420.72	149633.03	138.88	199-N-87	4/7/1993	1.2	1.2	pCi/g	U	B085H4
571395.77	149683.33	139.54	199-N-86	4/8/1993	1.1	0.64	pCi/g	J	B085J0
570909.52	149293.80	131.32	199-N-90	9/22/1993	5	2.94	pCi/g		B098T2

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
570909.52	149293.80	129.57	199-N-90	9/22/1993	0.15	0.09	pCi/g		B098T3
570909.52	149293.80	127.98	199-N-90	9/23/1993	0.06	0.06	pCi/g	U	B098T6
570909.52	149293.80	126.44	199-N-90	9/23/1993	0.06	0.06	pCi/g	U	B098T7
570909.52	149293.80	131.37	199-N-90	9/23/1993	2.6	1.53	pCi/g		B098T8
571424.81	149903.69	122.11	199-N-103A	2/2/1995	2.26	1.37	pCi/g		B0DRK8
571424.81	149903.69	120.21	199-N-103A	2/6/1995	153	93.03	pCi/g		B0DRK9
571424.81	149903.69	116.62	199-N-103A	2/9/1995	0.976	0.59	pCi/g		B0DRL0
571778.31	149542.63	118.56	199-N-104A	3/1/1995	1.17	0.71	pCi/g		B0DRL2
571602.31	150024.95	128.96	199-N-105A	3/21/1995	0.132	0.132	pCi/g	U	B0DRL6
571602.31	150024.95	123.78	199-N-105A	3/24/1995	709	432.41	pCi/g		B0DRL7
571602.31	150024.95	117.98	199-N-105A	4/4/1995	114	69.58	pCi/g		B0DRL8
571602.31	150024.95	113.41	199-N-105A	4/13/1995	13	7.94	pCi/g		B0DRL9
571713.10	150243.37	117.21	199-N-14	4/24/1995	16.8	10.27	pCi/g		B0DRM0
571713.10	150243.37	128.94	199-N-14	4/24/1995	0.211	0.13	pCi/g		B0DRM1
571737.63	150150.84	122.08	199-N-106A	8/21/1995	210	129.33	pCi/g		B0GGB6
571737.63	150150.84	119.03	199-N-106A	8/23/1995	78.8	48.54	pCi/g		B0GGB7
571737.63	150150.84	115.07	199-N-106A	8/25/1995	118	72.69	pCi/g		B0GGB8
571737.63	150150.84	112.17	199-N-106A	8/26/1995	52.2	32.16	pCi/g		B0GGC1
571541.51	149812.50	135.53	B2537	11/9/1995	768	475.46	pCi/g		B0GL71
571541.51	149812.50	132.94	B2537	11/10/1995	1740	1077.27	pCi/g		B0GL75
571541.50	149812.50	127.15	B2537	11/15/1995	57.9	35.86	pCi/g		B0GL81
571541.50	149812.50	121.08	B2537	11/16/1995	144	89.19	pCi/g		B0GL86
571462.38	149685.11	138.21	199-N-107A	11/29/1995	9560	5926.15	pCi/g		B0GL88

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571462.35	149685.11	137.60	199-N-107A	11/30/1995	19700	12212.63	pCi/g		B0GL89
571462.38	149685.11	132.42	199-N-107A	12/5/1995	1310	812.37	pCi/g		B0GL92
571462.38	149685.11	123.59	199-N-107A	12/8/1995	50	31.01	pCi/g		B0GL95
571898.17	149630.62	135.60	B2539	12/19/1995	1340	831.74	pCi/g		B0GL97
571898.17	149630.62	134.99	B2539	12/20/1995	1230	763.51	pCi/g		B0GL99
571898.17	149630.62	132.85	B2539	12/20/1995	401	248.92	pCi/g		B0GLB1
571898.17	149630.62	130.72	B2539	12/22/1995	226	140.31	pCi/g		B0GLB3
571898.17	149630.62	131.48	B2539	12/22/1995	200	124.16	pCi/g		B0GLB4
571898.17	149630.62	126.15	B2539	12/27/1995	27.7	17.2	pCi/g		B0GLB6
571898.17	149630.62	119.90	B2539	12/28/1995	16	9.94	pCi/g		B0GLC0
571541.50	149812.50	134.79	199-N-108A	11/9/1995	785	485.98	pCi/g		B0GLD5
571541.50	149812.50	131.75	199-N-108A	11/10/1995	195	120.73	pCi/g		B0GLD6
571541.50	149812.50	130.37	199-N-108A	11/10/1995	119	73.68	pCi/g		B0GLD7
571541.50	149812.50	125.95	199-N-108A	11/15/1995	4.33	2.68	pCi/g		B0GLD9
571541.50	149812.50	124.43	199-N-108A	11/15/1995	1.38	0.85	pCi/g		B0GLF0
571541.50	149812.50	122.14	199-N-108A	11/15/1995	239	148.02	pCi/g		B0GLF1

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571541.50	149812.50	119.25	199-N-108A	11/16/1995	129	79.9	pCi/g		B0GLF3
571462.38	149685.11	137.60	199-N-107A	11/30/1995	12600	7811.12	pCi/g		B0GLF5
571462.38	149685.11	134.25	199-N-107A	12/5/1995	1170	725.55	pCi/g		B0GLF7
571462.38	149685.11	129.07	199-N-107A	12/6/1995	1080	669.79	pCi/g		B0GLF9
571462.38	149685.11	126.02	199-N-107A	12/6/1995	188	116.59	pCi/g		B0GLG0
571462.38	149685.11	120.23	199-N-107A	12/8/1995	54.6	33.87	pCi/g		B0H1V6
571898.19	149630.63	136.26	199-N-109A	12/19/1995	1080	670.35	pCi/g		B0H1V7
571898.19	149630.63	135.65	199-N-109A	12/20/1995	866	537.56	pCi/g		B0H1V8
571898.19	149630.63	133.51	199-N-109A	12/20/1995	331	205.46	pCi/g		B0H1V9
571898.19	149630.63	131.38	199-N-109A	12/22/1995	147	91.26	pCi/g		B0H1W2
571898.19	149630.63	129.86	199-N-109A	12/22/1995	127	78.84	pCi/g		B0H1W3
571898.19	149630.63	123.76	199-N-109A	12/27/1995	4.61	2.86	pCi/g		B0H1W5
571898.19	149630.63	120.56	199-N-109A	12/28/1995	18.1	11.24	pCi/g		B0H5N9
571676.60	149253.10	142.25	EAL (MO425)|EAL WASTE CHARACTERIZATION	8/15/1996	4.18	4.18	pCi/g	U	B0J062
571572.20	149772.70	140.74	100-N SOIL/VEG.	9/20/1996	0.095	0.095	pCi/g	U	B0J217

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
			SAMP SITES Y702 & Y602						
571482.70	149804.80	140.64	100-N SOIL/VEG. SAMP SITES Y703 & Y603	9/20/1996	0.369	0.23	pCi/g	J	B0J218
571718.00	149977.00	141.77	100-N SOIL/VEG. SAMP SITES Y704 & Y604	9/20/1996	0.242	0.15	pCi/g	J	B0J219
571704.30	150039.00	140.66	100-N SOIL/VEG. SAMP SITES Y705 & Y605	9/20/1996	0.229	0.14	pCi/g	J	B0J220
571858.10	149727.90	142.36	100-N SOIL/VEG. SAMP SITES Y708 & Y608	9/20/1996	0.278	0.18	pCi/g	J	B0J221
571907.40	149420.30	141.95	100-N SOIL/VEG. SAMP SITES Y710 & Y610	9/20/1996	0.0907	0.06	pCi/g	J	B0J222
572079.60	149608.50	140.44	100-N SOIL/VEG. SAMP SITES Y711 & Y611	9/20/1996	0.0963	0.0963	pCi/g	U	B0J223
571909.00	149649.00	137.09	116-N-3 Crib	4/2/2002	12.7	9.16	pCi/g		B10059
572064.00	149738.00	134.46	116-N-3 Trench	10/19/2000	425	295.97	pCi/g		B10637

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
572058.00	149733.00	134.47	116-N-3 Trench	10/19/2000	80.7	56.2	pCi/g		B10638
572015.00	149675.00	134.66	116-N-3 Trench	10/19/2000	5.32	3.7	pCi/g		B10642
572003.00	149669.00	134.65	116-N-3 Trench	10/19/2000	467	325.22	pCi/g		B10644
572004.00	149668.00	134.65	116-N-3 Trench	10/19/2000	256	178.28	pCi/g		B10645
571990.00	149646.00	134.46	116-N-3 Trench	10/19/2000	440	306.42	pCi/g		B10646
572071.00	149758.00	134.42	116-N-3 Trench	10/19/2000	449	312.69	pCi/g		B10652
571984.00	149652.00	134.42	116-N-3 Trench	10/19/2000	635	442.22	pCi/g		B10659
572039.00	149699.00	136.76	116-N-3 Trench	8/24/2001	0.17	0.17	pCi/g	U	B12P74
572003.00	149630.00	137.67	116-N-3 Trench	8/27/2001	0.368	0.255	pCi/g	J	B12P75
572009.00	149629.00	137.98	116-N-3 Trench	8/27/2001	0.18	0.18	pCi/g	U	B12P78
571986.00	149613.00	141.04	116-N-3 Trench	8/27/2001	0.18	0.18	pCi/g	U	B12P79
572064.00	149733.00	136.76	116-N-3 Trench	8/24/2001	0.17	0.17	pCi/g	U	B12P80
572020.00	149707.00	136.88	116-N-3 Trench	8/24/2001	0.51	0.51	pCi/g	U	B12P81
572097.00	149802.00	136.92	116-N-3 Pipeline	8/24/2001	0.452	0.452	pCi/g	U	B12P83
572011.00	149695.00	136.68	116-N-3 Trench	8/24/2001	0.69	0.69	pCi/g	U	B12P84

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
572068.00	149767.00	136.93	116-N-3 Trench	8/24/2001	1.14	0.81	pCi/g		B12P85
572110.00	149801.00	132.94	116-N-3 Trench	8/24/2001	107	76.03	pCi/g		B12P86
571966.00	149619.00	134.59	116-N-3 Trench	8/27/2001	292	207.53	pCi/g		B12P87
572029.00	149700.00	134.49	116-N-3 Trench	8/24/2001	69.2	49.17	pCi/g		B12P88
571988.00	149623.00	136.27	116-N-3 Trench	8/27/2001	78	55.44	pCi/g		B12P89
572012.00	149641.00	134.36	116-N-3 Crib	8/27/2001	237	168.44	pCi/g		B12P91
572054.00	149729.00	134.45	116-N-3 Trench	8/24/2001	60.4	42.92	pCi/g		B12P92
572001.00	149656.00	134.39	116-N-3 Trench	8/27/2001	83.4	59.27	pCi/g		B12P93
571994.00	149668.00	134.37	116-N-3 Trench	8/24/2001	499	354.58	pCi/g		B12P94
572070.00	149763.00	134.48	116-N-3 Trench	8/24/2001	386	274.28	pCi/g		B12P95
572010.00	149686.00	134.48	116-N-3 Trench	8/24/2001	0.38	0.38	pCi/g	U	B12P96
571780.00	149590.00	140.03	116-N-3 BPT	9/17/2001	1.2	1.2	pCi/g	U	B12X91 [a]
571992.00	149671.00	136.79	116-N-3 Trench	11/15/2001	1.2	1.2	pCi/g	U	B13CF6 [a]
571817.00	149587.00	138.65	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13P82 [a]
571604.00	149659.00	139.05	100-N-63:1	1/7/2002	4.26	3.05	pCi/g		B13P83
571586.00	149667.00	139.55	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13TD5 [a]
571619.00	149656.00	139.22	100-N-63:1	1/7/2002	0.261	0.19	pCi/g	J	B13TD6

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571757.00	149602.00	139.16	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13TD7 [a]
571649.00	149657.00	139.01	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13TD8 [a]
571630.00	149678.00	141.83	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13TD9 [a]
571633.00	149665.00	139.07	100-N-63:1	1/7/2002	1.2	1.2	pCi/g	U	B13TF0 [a]
571689.00	149626.00	139.08	100-N-63:1	1/7/2002	0.321	0.23	pCi/g	J	B13TF1
571796.70	149582.60	138.91	100-N-63:1	1/30/2002	0.106	0.08	pCi/g	U	B13TF2
571534.00	149675.00	138.39	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14500 [a]
571806.00	149610.00	138.61	116-N-3 OVB	3/4/2002	0.402	0.29	pCi/g		B14501
571552.00	149688.00	140.69	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14502 [a]
571542.00	149704.00	139.91	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14503 [a]
571568.00	149687.00	139.06	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14504 [a]
571647.00	149694.00	140.25	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14505 [a]
571823.00	149614.00	138.43	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14506 [a]
571657.00	149692.00	140.17	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14507 [a]
571695.00	149689.00	139.70	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14508 [a]
571645.00	149692.00	140.31	116-N-3 OVB	3/4/2002	1.2	1.2	pCi/g	U	B14509 [a]
571949.00	149540.00	138.96	116-N-3 SRA	5/14/2002	1.2	1.2	pCi/g	U	B145Y9 [a]
571961.00	149544.00	138.30	116-N-3 SRA	5/14/2002	1.2	1.2	pCi/g	U	B14600 [a]

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571901.00	149650.00	137.01	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CL5 [a]
571923.00	149658.00	137.27	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CL6 [a]
571981.00	149560.00	136.82	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CL7 [a]
571918.00	149657.00	137.26	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CL8 [a]
571914.00	149541.00	136.75	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CL9 [a]
571855.00	149607.00	136.77	116-N-3 Crib	4/2/2002	0.158	0.158	pCi/g	U	B14CM0
571877.00	149547.00	137.10	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CM1 [a]
571987.00	149569.00	137.16	116-N-3 Crib	4/2/2002	1.2	1.2	pCi/g	U	B14CM2 [a]
571957.00	149654.00	136.99	116-N-3 Crib	4/2/2002	0.712	0.51	pCi/g	J	B14CM3
571878.00	149577.00	134.56	116-N-3 Crib	4/8/2002	3160	2278.88	pCi/g		B14CM4
571888.00	149627.00	134.41	116-N-3 Trench	4/8/2002	1970	1420.69	pCi/g		B14CM5
571951.00	149612.00	134.70	116-N-3 Crib	4/8/2002	1740	1254.82	pCi/g		B14CM6
571896.00	149552.00	134.55	116-N-3 Trench	4/8/2002	1940	1399.06	pCi/g		B14CM7
571866.00	149594.00	134.56	116-N-3 Crib	4/8/2002	77.2	55.67	pCi/g		B14CM8
571931.00	149550.00	134.48	116-N-3 Trench	4/8/2002	2150	1550.5	pCi/g		B14CM9
571917.00	149591.00	134.65	116-N-3 Crib	4/8/2002	2680	1932.72	pCi/g		B14CN0
571946.00	149605.00	135.71	116-N-3 Trench	4/8/2002	2060	1485.6	pCi/g		B14CN1
571884.00	149573.00	134.54	116-N-3 Crib	4/8/2002	801	577.65	pCi/g		B14CN2
571906.00	149578.00	134.50	116-N-3 Crib	4/8/2002	3710	2675.52	pCi/g		B14CN3
571566.00	149810.00	136.96	116-N-1 Crib	5/9/2002	3640	2630.34	pCi/g		B14HY3
571368.29	149973.29	119.64	199-N-121	3/10/2004	6.9	5.21	pCi/g		B18NH6
571364.50	149968.34	118.98	199-N-119	3/18/2004	14	10.57	pCi/g		B18PK9

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
570787.67	149051.93	116.82	199-K-150	5/6/2008	0.34	0.34	pCi/g	U	B1RPK4
570919.58	149116.02	116.66	199-K-160	5/6/2008	0.38	0.38	pCi/g	U	B1RPN6
571193.02	149759.67	120.12	199-N-173	1/29/2009	0.37	0.37	pCi/g	U	B1YDD6
571193.02	149759.67	119.35	199-N-173	2/2/2009	0.34	0.34	pCi/g	U	B1YDF0
571193.02	149759.67	118.66	199-N-173	2/2/2009	0.78	0.66	pCi/g		B1YDF8
571193.02	149759.67	113.95	199-N-173	2/4/2009	1.2	1.2	pCi/g	U	B1YDH0
571193.02	149759.67	117.75	199-N-173	2/2/2009	0.32	0.32	pCi/g	U	B1YDH2
571193.02	149759.67	115.69	199-N-173	2/3/2009	0.71	0.6	pCi/g		B1YDH6
571193.02	149759.67	112.56	199-N-173	2/5/2009	0.32	0.32	pCi/g	U	B1YDJ4
571193.02	149759.67	111.04	199-N-173	2/5/2009	0.35	0.35	pCi/g	U	B1YDJ8
571193.02	149759.67	109.49	199-N-173	2/5/2009	0.3	0.3	pCi/g	U	B1YDK2
571193.02	149759.67	123.32	199-N-173	3/13/2009	0.77	0.65	pCi/g		B1YR54
571285.48	149883.35	118.24	199-N-234	1/28/2010	49	42.55	pCi/g		B23R33
571196.29	149755.59	118.47	199-N-200	1/28/2010	0.37	0.37	pCi/g	U	B23R34
571235.62	149816.80	118.36	199-N-216	1/28/2010	0.33	0.33	pCi/g	U	B23R35
571269.69	149756.01	104.84	199-N-183	4/27/2011	0.6	0.6	pCi/g	U	B2C2B1
571430.74	149817.82	134.04	199-N-184	8/22/2011	0.24	0.24	pCi/g	U	B2C3M4
571430.74	149817.82	132.38	199-N-184	8/23/2011	0.257	0.257	pCi/g	U	B2C3M5
571430.74	149817.82	131.07	199-N-184	8/23/2011	1.24	1.12	pCi/g		B2C3M6
571430.74	149817.82	129.42	199-N-184	8/23/2011	0.256	0.256	pCi/g	U	B2C3M7
571430.74	149817.82	128.11	199-N-184	8/23/2011	1.01	0.91	pCi/g		B2C3M9
571430.74	149817.82	124.73	199-N-184	8/25/2011	1.44	1.3	pCi/g		B2C3N1
571430.74	149817.82	123.26	199-N-184	8/25/2011	25.5	22.99	pCi/g		B2C3N2
571430.74	149817.82	122.68	199-N-184	8/25/2011	21.5	19.38	pCi/g		B2C3N3
571430.74	149817.82	121.92	199-N-184	8/25/2011	177	159.58	pCi/g		B2C3N4
571430.74	149817.82	120.76	199-N-184	9/1/2011	356	321.1	pCi/g		B2C3N6

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571430.74	149817.82	120.34	199-N-184	9/1/2011	225	202.95	pCi/g		B2C3N7
571430.74	149817.82	119.58	199-N-184	9/7/2011	275	248.14	pCi/g		B2C3N8
571430.74	149817.82	117.59	199-N-184	9/7/2011	145	130.84	pCi/g		B2C3P5
571430.74	149817.82	110.28	199-N-184	9/16/2011	1.03	0.93	pCi/g		B2C407
571430.74	149817.82	107.62	199-N-184	9/19/2011	1.2	1.2	pCi/g	U	B2C408
571546.33	150237.98	118.79	199-N-185	3/18/2011	7.8	6.96	pCi/g		B2C438
571546.33	150237.98	116.51	199-N-185	3/21/2011	7.88	7.03	pCi/g		B2C463
571546.33	150237.98	117.91	199-N-185	3/18/2011	10.3	9.19	pCi/g		B2C464
571546.33	150237.98	109.71	199-N-185	3/28/2011	0.45	0.45	pCi/g	U	B2C495
571546.33	150237.98	106.51	199-N-185	3/31/2011	1.2	1.2	pCi/g	U	B2C496
571546.33	150237.98	100.45	199-N-185	4/4/2011	0.88	0.79	pCi/g		B2C497
571546.33	150237.98	94.26	199-N-185	4/6/2011	1.6	1.43	pCi/g		B2C498
571431.65	148430.52	123.18	199-N-189	7/6/2011	1.2	1.2	pCi/g	U	B2C4I9
571431.65	148430.52	125.12	199-N-189	7/5/2011	0.362	0.362	pCi/g	U	B2C4J8
571431.65	148430.52	123.56	199-N-189	7/6/2011	0.298	0.298	pCi/g	U	B2C4K0
571431.65	148430.52	122.08	199-N-189	7/6/2011	0.382	0.382	pCi/g	U	B2C4K1
571431.65	148430.52	121.25	199-N-189	7/6/2011	0.433	0.433	pCi/g	U	B2C4K2
571431.65	148430.52	120.33	199-N-189	7/6/2011	0.365	0.365	pCi/g	U	B2C4K3
571431.65	148430.52	119.64	199-N-189	7/7/2011	0.342	0.342	pCi/g	U	B2C4K4
571431.65	148430.52	118.64	199-N-189	7/7/2011	0.373	0.373	pCi/g	U	B2C4K7
571431.65	148430.52	117.35	199-N-189	7/7/2011	0.263	0.263	pCi/g	U	B2C4K8
571431.65	148430.52	107.91	199-N-189	7/18/2011	1.2	1.2	pCi/g	U	B2C4P6
571431.65	148430.52	109.98	199-N-189	7/14/2011	0.58	0.52	pCi/g		B2C4P7
571480.87	149715.06	130.95	199-N-186	8/11/2011	0.53	0.53	pCi/g	U	B2C6P5
571480.87	149715.06	114.34	199-N-186	8/16/2011	0.3	0.3	pCi/g	U	B2C6P6
571480.87	149715.06	134.97	199-N-186	7/20/2011	846	760.94	pCi/g		B2C6T3

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571480.87	149715.06	133.33	199-N-186	7/26/2011	541	486.8	pCi/g		B2C6T4
571480.87	149715.06	131.96	199-N-186	7/27/2011	833	749.59	pCi/g		B2C6T5
571480.87	149715.06	130.31	199-N-186	7/27/2011	1030	926.86	pCi/g		B2C6T7
571480.87	149715.06	128.76	199-N-186	8/1/2011	844	759.73	pCi/g		B2C6T8
571480.87	149715.06	127.23	199-N-186	8/2/2011	732	658.96	pCi/g		B2C6T9
571480.87	149715.06	122.66	199-N-186	8/3/2011	79.2	71.3	pCi/g		B2C6V4
571480.87	149715.06	121.96	199-N-186	8/4/2011	32.6	29.35	pCi/g		B2C6V5
571480.87	149715.06	121.11	199-N-186	8/4/2011	29.5	26.56	pCi/g		B2C6V7
571480.87	149715.06	120.44	199-N-186	8/8/2011	18.2	16.39	pCi/g		B2C6V9
571480.87	149715.06	124.02	199-N-186	8/3/2011	157	141.34	pCi/g		B2C6W4
571480.87	149715.06	118.91	199-N-186	8/9/2011	15.9	14.32	pCi/g		B2C6W9
571480.87	149715.06	117.24	199-N-186	8/9/2011	6.74	6.07	pCi/g		B2C6X0
571480.87	149715.06	125.77	199-N-186	8/2/2011	215	193.55	pCi/g		B2C6X9
571565.90	149897.96	134.93	199-N-187	7/21/2011	0.274	0.274	pCi/g	U	B2C756
571565.90	149897.96	131.71	199-N-187	8/9/2011	1310	1179.82	pCi/g		B2C758
571565.90	149897.96	130.58	199-N-187	8/10/2011	821	739.46	pCi/g		B2C761
571565.90	149897.96	128.68	199-N-187	8/11/2011	953	858.41	pCi/g		B2C763
571565.90	149897.96	127.59	199-N-187	8/15/2011	3.19	2.87	pCi/g		B2C765
571565.90	149897.96	124.19	199-N-187	8/17/2011	205	184.73	pCi/g		B2C768
571565.90	149897.96	122.43	199-N-187	8/17/2011	255	229.78	pCi/g		B2C770
571565.90	149897.96	121.91	199-N-187	8/17/2011	213	191.93	pCi/g		B2C771
571565.90	149897.96	121.03	199-N-187	8/18/2011	206	185.64	pCi/g		B2C773
571565.90	149897.96	120.45	199-N-187	8/18/2011	160	144.19	pCi/g		B2C774
571565.90	149897.96	119.56	199-N-187	8/22/2011	81.5	73.46	pCi/g		B2C775
571565.90	149897.96	119.08	199-N-187	8/23/2011	148	133.41	pCi/g		B2C776
571565.90	149897.96	125.63	199-N-187	8/16/2011	47	42.35	pCi/g		B2C777

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571565.90	149897.96	117.64	199-N-187	8/25/2011	97.7	88.08	pCi/g		B2C783
571906.94	149581.53	134.45	199-N-188	8/10/2011	0.298	0.298	pCi/g	U	B2C7P2
571906.94	149581.53	132.91	199-N-188	8/17/2011	769	692.94	pCi/g		B2C7P3
571906.94	149581.53	131.16	199-N-188	8/17/2011	704	634.37	pCi/g		B2C7P4
571906.94	149581.53	129.79	199-N-188	8/18/2011	356	320.81	pCi/g		B2C7P5
571906.94	149581.53	128.17	199-N-188	8/18/2011	150	135.17	pCi/g		B2C7P7
571906.94	149581.53	125.27	199-N-188	8/23/2011	31.5	28.4	pCi/g		B2C7V4
571906.94	149581.53	123.63	199-N-188	8/23/2011	49.9	44.98	pCi/g		B2C7V5
571565.90	149897.96	115.88	199-N-187	8/31/2011	64	57.72	pCi/g		B2C7W7
571565.90	149897.96	114.17	199-N-187	9/1/2011	23	20.75	pCi/g		B2C7W8
571906.94	149581.53	122.07	199-N-188	8/24/2011	137	123.51	pCi/g		B2C7Y6
571906.94	149581.53	120.73	199-N-188	8/25/2011	115	103.68	pCi/g		B2C7Y8
571906.94	149581.53	119.94	199-N-188	8/29/2011	97	87.47	pCi/g		B2C7Y9
571906.94	149581.53	119.12	199-N-188	8/29/2011	75.7	68.27	pCi/g		B2C801
571906.94	149581.53	126.43	199-N-188	8/22/2011	46.8	42.19	pCi/g		B2C803
571906.94	149581.53	118.30	199-N-188	8/30/2011	45.8	41.31	pCi/g		B2C808
571906.94	149581.53	117.29	199-N-188	8/31/2011	41.7	37.61	pCi/g		B2CB59
571428.71	149819.87	108.78	199-N-182	6/29/2011	2.2	1.98	pCi/g		B2CIR6
571428.71	149819.87	101.22	199-N-182	7/7/2011	0.82	0.74	pCi/g		B2CIR8
571269.69	149756.01	122.02	199-N-183	4/12/2011	1.2	1.2	pCi/g	U	B2CIX1
571269.69	149756.01	120.62	199-N-183	4/13/2011	1.2	1.2	pCi/g	U	B2CIX2
571269.69	149756.01	118.18	199-N-183	4/13/2011	1.4	1.25	pCi/g		B2CIX5
571269.69	149756.01	118.91	199-N-183	4/13/2011	0.599	0.54	pCi/g		B2CIX6
571269.69	149756.01	117.08	199-N-183	4/18/2011	0.463	0.41	pCi/g		B2CIY3
571546.33	150237.98	121.01	199-N-185	3/17/2011	1.2	1.2	pCi/g	U	B2CIY4
571546.33	150237.98	120.15	199-N-185	3/18/2011	1.43	1.28	pCi/g		B2CIY5

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571906.94	149581.53	116.24	199-N-188	9/8/2011	6.85	6.18	pCi/g		B2CKW0
571906.94	149581.53	114.24	199-N-188	9/13/2011	1.84	1.66	pCi/g		B2CKW1
571428.71	149819.87	93.96	199-N-182	7/12/2011	0.59	0.59	pCi/g	U	B2D1X1
571269.69	149756.01	107.18	199-N-183	4/26/2011	0.54	0.48	pCi/g		B2D4K3
571116.32	149532.29	118.61	199-N-374	7/5/2016	0.409	0.409	pCi/g	U	B35XC0
571116.32	149532.29	119.29	199-N-374	7/5/2016	1.29	1.31	pCi/g		B35XC4
571277.91	149677.94	131.93	199-N-377	8/8/2016	0.293	0.293	pCi/g	U	B366D3
571277.91	149677.94	128.88	199-N-377	8/8/2016	0.228	0.228	pCi/g	U	B366D7
571277.91	149677.94	127.29	199-N-377	8/9/2016	0.296	0.296	pCi/g	U	B366F1
571277.91	149677.94	127.60	199-N-377	8/9/2016	0.268	0.268	pCi/g	U	B366F4
571277.91	149677.94	125.04	199-N-377	8/10/2016	0.308	0.308	pCi/g	U	B366F8
571277.91	149677.94	123.34	199-N-377	8/10/2016	0.222	0.222	pCi/g	U	B366H2
571277.91	149677.94	118.45	199-N-377	8/10/2016	0.271	0.271	pCi/g	U	B366H5
571277.91	149677.94	120.86	199-N-377	8/11/2016	0.809	0.82	pCi/g		B366H9
571277.91	149677.94	119.24	199-N-377	8/11/2016	0.466	0.47	pCi/g		B366J3
571277.91	149677.94	133.79	199-N-377	8/8/2016	0.288	0.288	pCi/g	U	B366J7
571730.00	150500.00	108.84	199-N-91A	9/1/1994	0.343	0.21	pCi/g		BHI-00185 Table 6
571730.00	150500.00	116.46	199-N-91A	9/1/1994	0.109	0.07	pCi/g		BHI-00185 Table 6
571730.00	150500.00	117.98	199-N-91A	9/1/1994	0.305	0.18	pCi/g		BHI-00185 Table 6
571647.44	150383.53	108.39	199-N-92A	9/1/1994	0.309	0.19	pCi/g		BHI-00185 Table 6
571647.44	150383.53	116.01	199-N-92A	9/1/1994	0.51	0.31	pCi/g		BHI-00185 Table 6

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571647.44	150383.53	117.53	199-N-92A	9/1/1994	0.118	0.07	pCi/g		BHI-00185 Table 6
571560.00	150260.00	110.12	199-N-93A	9/1/1994	0.409	0.25	pCi/g		BHI-00185 Table 6
571560.00	150260.00	116.22	199-N-93A	9/1/1994	4.58	2.76	pCi/g		BHI-00185 Table 6
571560.00	150260.00	117.74	199-N-93A	9/1/1994	21.5	12.94	pCi/g		BHI-00185 Table 6
571560.00	150260.00	119.26	199-N-93A	9/1/1994	1.67	1.01	pCi/g		BHI-00185 Table 6
571466.06	150154.17	107.88	199-N-94A	9/1/1994	1.54	0.93	pCi/g		BHI-00185 Table 6
571466.06	150154.17	111.84	199-N-94A	9/1/1994	4.6	2.77	pCi/g		BHI-00185 Table 6
571466.06	150154.17	113.98	199-N-94A	9/1/1994	11.7	7.04	pCi/g		BHI-00185 Table 6
571466.06	150154.17	117.03	199-N-94A	9/1/1994	13.1	7.88	pCi/g		BHI-00185 Table 6
571466.06	150154.17	118.55	199-N-94A	9/1/1994	45.5	27.38	pCi/g		BHI-00185 Table 6
571466.06	150154.17	120.07	199-N-94A	9/1/1994	42	25.28	pCi/g		BHI-00185 Table 6
571360.00	149970.00	109.75	199-N-95A	9/1/1994	0.263	0.16	pCi/g		BHI-00185 Table 6
571360.00	149970.00	114.02	199-N-95A	9/1/1994	0.84	0.51	pCi/g		BHI-00185 Table 6
571360.00	149970.00	115.54	199-N-95A	9/1/1994	12.4	7.46	pCi/g		BHI-00185 Table 6
571360.00	149970.00	117.07	199-N-95A	9/1/1994	10.2	6.14	pCi/g		BHI-00185 Table 6

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571360.00	149970.00	118.59	199-N-95A	9/1/1994	36.9	22.21	pCi/g		BHI-00185 Table 6
571360.00	149970.00	120.12	199-N-95A	9/1/1994	0.68	0.41	pCi/g		BHI-00185 Table 6
571213.50	149800.77	109.93	199-N-96A	9/1/1994	0.202	0.12	pCi/g		BHI-00185 Table 6
571213.50	149800.77	116.02	199-N-96A	9/1/1994	0.64	0.39	pCi/g		BHI-00185 Table 6
571213.50	149800.77	117.39	199-N-96A	9/1/1994	0.095	0.06	pCi/g		BHI-00185 Table 6
571213.50	149800.77	119.07	199-N-96A	9/1/1994	0.101	0.06	pCi/g		BHI-00185 Table 6
571213.50	149800.77	120.59	199-N-96A	9/1/1994	0.057	0.03	pCi/g		BHI-00185 Table 6
571140.00	149650.00	115.36	199-N-97A	9/1/1994	0.52	0.31	pCi/g		BHI-00185 Table 6
571140.00	149650.00	117.67	199-N-97A	9/1/1994	0.358	0.22	pCi/g		BHI-00185 Table 6
571140.00	149650.00	118.58	199-N-97A	9/1/1994	0.343	0.21	pCi/g		BHI-00185 Table 6
571730.00	150500.00	119.51	199-N-91A	9/1/1994	1.2	1.2	pCi/g		BHI-00185 Table 6 [a]
571602.31	150024.95	136.57	199-N-105A	3/16/1995	1.5	0.91	pCi/g		EAL00284 (a)
571602.31	150024.95	135.05	199-N-105A	3/16/1995	0.87	0.53	pCi/g		EAL00285 (a)
571602.31	150024.95	133.52	199-N-105A	3/17/1995	0.64	0.39	pCi/g		EAL00286 (a)
571602.31	150024.95	132.00	199-N-105A	3/20/1995	0.34	0.21	pCi/g		EAL00287 (a)

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571602.31	150024.95	130.48	199-N-105A	3/21/1995	1.1	0.67	pCi/g		EAL00288 (a)
571602.31	150024.95	128.95	199-N-105A	3/21/1995	1.8	1.1	pCi/g		EAL00289 (a)
571602.31	150024.95	127.43	199-N-105A	3/22/1995	3.1	1.89	pCi/g		EAL00290 (a)
571602.31	150024.95	119.81	199-N-105A	3/30/1995	50	30.51	pCi/g		EAL00331 (a)
571602.31	150024.95	115.24	199-N-105A	4/12/1995	2.6	1.59	pCi/g		EAL00365 (a)
571602.31	150024.95	113.71	199-N-105A	4/13/1995	1.9	1.16	pCi/g		EAL00382 (a)
571602.31	150024.95	112.19	199-N-105A	4/17/1995	2.3	1.4	pCi/g		EAL00383 (a)
571627.00	149983.00	137.05	116-N-1 LB	8/13/2003	1.2	1.2	pCi/g	U	J00WM8 [a]
571654.00	149972.00	135.25	116-N-1 LB	8/13/2003	2150	1601.02	pCi/g		J00WN0
571712.00	149829.00	138.42	116-N-1 SP	12/1/2003	1.06	0.8	pCi/g		J015K1
571724.00	149775.00	138.49	116-N-1 SP	12/1/2003	0.002	0.002	pCi/g	U	J015K2
571698.00	149785.00	138.45	116-N-1 SP	12/1/2003	0.204	0.15	pCi/g		J015K3
571739.00	149804.00	137.70	116-N-1 SP	12/1/2003	0.03	0.03	pCi/g	U	J015K4
571742.00	149845.00	138.53	116-N-1 SP	12/1/2003	0.215	0.16	pCi/g		J015K5
571667.00	149848.00	137.26	116-N-1 SP	12/1/2003	0.074	0.074	pCi/g	U	J015K6
571707.00	149826.00	138.84	116-N-1 SP	12/1/2003	0.086	0.086	pCi/g	U	J015K7
571711.00	149809.00	138.55	116-N-1 SP	12/1/2003	0.126	0.09	pCi/g	U	J015K8
571670.00	149802.00	139.18	116-N-1 SP	12/1/2003	0.047	0.047	pCi/g	U	J015K9
571651.00	149800.00	137.79	116-N-1 SP	12/1/2003	1.2	1.2	pCi/g	U	J015L0 [a]
571689.30	149950.60	138.38	116-N-1 LB	10/19/2004	1.2	1.2	pCi/g	U	J01Y88 [a]

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571692.50	149957.40	138.56	116-N-1 LB	10/19/2004	0.014	0.014	pCi/g	U	J01Y89
571695.80	149964.20	138.72	116-N-1 LB	10/19/2004	0.298	0.23	pCi/g		J01Y90
571455.00	149758.00	137.91	116-N-1 Crib	11/8/2005	0.11	0.09	pCi/g	U	J10F90
571444.00	149740.00	137.97	116-N-1 Crib	11/8/2005	1.2	1.2	pCi/g	U	J10F91 [a]
571426.00	149676.00	137.39	116-N-1 Crib	11/8/2005	1.2	1.2	pCi/g	U	J10F92 [a]
571439.00	149669.00	137.86	116-N-1 Crib	11/8/2005	0.638	0.5	pCi/g		J10F93
571464.00	149660.00	138.43	116-N-1 Crib	11/8/2005	0.45	0.35	pCi/g		J10F94
571481.00	149651.00	138.21	116-N-1 Crib	11/8/2005	0.141	0.11	pCi/g	U	J10F95
571509.00	149652.00	137.71	116-N-1 Crib	11/8/2005	0.002	0.002	pCi/g	U	J10F96
571519.00	149666.00	137.93	116-N-1 Crib	11/8/2005	0.034	0.034	pCi/g	U	J10F97
571500.00	149690.00	138.93	116-N-1 Crib	11/8/2005	0.093	0.093	pCi/g	U	J10F98
571516.00	149708.00	138.23	116-N-1 Crib	11/8/2005	0.104	0.08	pCi/g	U	J10F99
571711.00	150070.00	137.15	116-N-1 Trench	11/9/2005	0.014	0.014	pCi/g	U	J10FB0
571615.00	149954.00	137.15	116-N-1 Trench	11/8/2005	0.135	0.11	pCi/g	U	J10FB1
571559.00	149947.00	137.36	116-N-1 Trench	11/8/2005	0.095	0.095	pCi/g	U	J10FB2
571539.00	149841.00	137.38	116-N-1 Trench	11/8/2005	0.106	0.08	pCi/g	U	J10FB3
571548.00	149746.00	137.11	116-N-1 Trench	11/8/2005	0.0134	0.0134	pCi/g	U	J10FB4
571568.00	149786.00	137.41	116-N-1 Trench	11/8/2005	1.2	1.2	pCi/g	U	J10FB5 [a]
571597.00	149874.00	137.45	116-N-1 Trench	11/8/2005	0.149	0.149	pCi/g	U	J10FB6

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571658.00	149891.00	137.13	116-N-1 Trench	11/8/2005	0.065	0.065	pCi/g	U	J10FB7
571681.00	149919.00	137.17	116-N-1 Trench	11/8/2005	0.067	0.067	pCi/g	U	J10FB8
571740.00	149995.00	137.12	116-N-1 Trench	11/8/2005	0.151	0.12	pCi/g	U	J10FB9
571508.00	149741.00	137.14	116-N-1 Crib	11/9/2005	286	224.65	pCi/g		J10FD0
571487.00	149737.00	137.23	116-N-1 Crib	11/9/2005	912	716.36	pCi/g		J10FD1
571458.00	149744.00	136.24	116-N-1 Crib	11/9/2005	180	141.39	pCi/g		J10FD2
571470.00	149731.00	136.76	116-N-1 Crib	11/9/2005	123	96.61	pCi/g		J10FD3
571507.00	149705.00	136.39	116-N-1 Crib	11/9/2005	57.9	45.48	pCi/g		J10FD5
571566.00	149700.00	137.46	116-N-1 Crib	11/9/2005	110	86.4	pCi/g		J10FD6
571489.00	149672.00	137.33	116-N-1 Crib	11/9/2005	72.1	56.63	pCi/g		J10FD7
571489.00	149656.00	136.49	116-N-1 Crib	11/10/2005	1750	1374.69	pCi/g		J10FD8
571440.00	149681.00	136.54	116-N-1 Crib	11/10/2005	11.7	9.19	pCi/g		J10FD9
571723.00	150045.00	134.90	116-N-1 Trench	11/9/2005	558	438.3	pCi/g		J10FF0
571723.00	150016.00	134.10	116-N-1 Trench	11/9/2005	65.5	51.45	pCi/g		J10FF1
571692.00	150007.00	135.35	116-N-1 Trench	11/9/2005	1260	989.71	pCi/g		J10FF2
571651.00	149945.00	134.32	116-N-1 Trench	11/10/2005	2110	1657.48	pCi/g		J10FF3
571658.00	149936.00	135.68	116-N-1 Trench	11/10/2005	598	469.75	pCi/g		J10FF4
571635.00	149923.00	134.68	116-N-1 Trench	11/10/2005	1470	1154.74	pCi/g		J10FF5

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571454.00	149700.00	136.50	116-N-1 Trench	11/10/2005	2020	1586.79	pCi/g		J10FF6
571489.00	149671.00	135.33	116-N-1 Trench	11/10/2005	80.9	63.55	pCi/g		J10FF7
571478.00	149716.00	136.68	116-N-1 Crib	11/9/2005	1320	1036.84	pCi/g		J10FH0
570536.04	149008.05	118.78	RCBRA CR4	2/21/2006	0.024	0.024	pCi/g	U	J112B1
571436.78	150131.29	118.45	RCBRA SR9	2/27/2006	0.407	0.32	pCi/g		J116V6
571734.89	150548.11	118.66	RCBRA SR10	2/27/2006	1.2	1.2	pCi/g	U	J116V7 [a]
571221.56	149856.03	118.70	RCBRA SR1	2/27/2006	0.013	0.013	pCi/g	U	J116V8
571315.58	149955.00	118.43	RCBRA SR5	2/27/2006	0.731	0.58	pCi/g		J116V9
571287.42	149928.39	118.32	RCBRA SR4	2/27/2006	1.49	1.18	pCi/g		J116W0
571274.77	149916.57	118.09	RCBRA SR3	2/27/2006	1.38	1.09	pCi/g		J116W1
571256.60	149891.62	118.48	RCBRA SR2	2/27/2006	0.053	0.053	pCi/g	U	J116W2
571322.03	149966.89	118.37	RCBRA SR6	2/27/2006	0.278	0.22	pCi/g		J116W5
570558.60	148981.55	119.70	RCBRA RIP 4	3/26/2006	0.138	0.138	pCi/g	U	J11JF5
571995.70	149793.04	140.56	RCBRA 116-N-3	5/22/2006	0.103	0.103	pCi/g	U	J11JV7
571503.00	149590.00	134.63	124-N-4	1/26/2011	1.2	1.2	pCi/g	U	J1D4W8 [a]
571036.30	149444.40	129.52	100-N-53	6/8/2011	0.0251	0.0251	pCi/g	U	J1J4H5
571035.50	149442.80	129.52	100-N-53	6/8/2011	0.0177	0.0177	pCi/g	U	J1J4H6
571037.00	149442.20	129.62	100-N-53	6/8/2011	0.0648	0.0648	pCi/g	U	J1J4H7
571035.40	149482.80	129.71	100-N-64	6/13/2011	0.0474	0.0474	pCi/g	U	J1J4H9
571013.90	149433.50	129.57	100-N-84:2	6/8/2011	0.018	0.018	pCi/g	U	J1J4I6
571024.90	149469.10	127.45	100-N-61	6/8/2011	0.0285	0.0285	pCi/g	U	J1J4J1
571038.90	149463.10	129.29	100-N-61	6/8/2011	0.0484	0.0484	pCi/g	U	J1J4J3
571018.30	149453.20	127.83	100-N-61	6/8/2011	0.0629	0.0629	pCi/g	U	J1J4J4

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
570991.10	149384.20	135.20	100-N-61	5/24/2011	0.0118	0.0118	pCi/g	U	J1J4J7
570987.20	149347.80	137.84	100-N-61	5/24/2011	0.0734	0.0734	pCi/g	U	J1J4J8
572729.20	147817.50	150.21	UPR-100-N-11	6/20/2011	0.035	0.035	pCi/g	U	J1JD43
572731.00	147817.80	150.13	UPR-100-N-11	6/20/2011	0.0399	0.0399	pCi/g	U	J1JD44
572730.50	147814.20	150.16	UPR-100-N-11	6/20/2011	0.0554	0.0554	pCi/g	U	J1JD45
571269.00	149682.00	138.33	100-N-102:2	8/2/2011	0.09	0.09	pCi/g	U	JIKMP4
571368.31	149973.30	117.88	199-N-121	4/1/2004	55.87106	42.24	pCi/g		PNNL-16984, Appendix B, Core 11
571368.31	149973.30	117.43	199-N-121	4/1/2004	54.38042	41.11	pCi/g		PNNL-16984, Appendix B, Core 14
571368.31	149973.30	116.97	199-N-121	4/1/2004	12.911333	9.76	pCi/g		PNNL-16984, Appendix B, Core 17
571368.31	149973.30	119.25	199-N-121	4/1/2004	12.546106	9.48	pCi/g		PNNL-16984, Appendix B, Core 2 Dup
571368.31	149973.30	116.21	199-N-121	4/1/2004	7.062316	5.34	pCi/g		PNNL-16984, Appendix B, Core 22

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571368.31	149973.30	115.44	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 27 [a]
571368.31	149973.30	119.10	199-N-121	4/1/2004	45.652773	34.51	pCi/g		PNNL-16984, Appendix B, Core 3
571368.31	149973.30	114.68	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 32 [a]
571368.31	149973.30	113.92	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 37 [a]
571368.31	149973.30	118.95	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 4 Dup [a]
571368.31	149973.30	113.16	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 42 [a]
571368.31	149973.30	118.80	199-N-121	4/1/2004	40.661907	30.74	pCi/g		PNNL-16984, Appendix B, Core 5 Rep 2
571368.31	149973.30	111.63	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984,

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
									Appendix B, Core 52 [a]
571368.31	149973.30	118.64	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 6 Dup [a]
571368.31	149973.30	109.65	199-N-121	4/1/2004	1.2	1.2	pCi/g		PNNL-16984, Appendix B, Core 65 [a]
571368.31	149973.30	118.34	199-N-121	4/1/2004	39.780351	30.07	pCi/g		PNNL-16984, Appendix B, Core 8 Rep 2
571830.00	150070.00	140.00	Control1 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	125.00	Control2 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	120.00	Control3 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	115.00	Control4 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	140.00	Control5 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	135.00	Control6 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	130.00	Control7 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	125.00	Control8 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	120.00	Control9 [b]		1.2	1.2	pCi/g		
571337.00	149839.00	115.00	Control10 [b]		1.2	1.2	pCi/g		
572079.60	149608.50	135.00	Control11 [b]		1.2	1.2	pCi/g		
571285.48	149883.35	121.00	Control12 [b]		1.2	1.2	pCi/g		

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571523.56	150060.72	125.00	Control13 [b]		1.2	1.2	pCi/g		
571560.06	150122.13	125.00	Control14 [b]		1.2	1.2	pCi/g		
571830.00	150070.00	135.00	Control15 [b]		1.2	1.2	pCi/g		
572079.60	149608.50	130.00	Control16 [b]		1.2	1.2	pCi/g		
572079.60	149608.50	125.00	Control17 [b]		1.2	1.2	pCi/g		
572079.60	149608.50	120.00	Control18 [b]		1.2	1.2	pCi/g		
571907.40	149420.30	135.00	Control19 [b]		1.2	1.2	pCi/g		
571907.40	149420.30	130.00	Control20 [b]		1.2	1.2	pCi/g		
571907.40	149420.30	125.00	Control21 [b]		1.2	1.2	pCi/g		
571907.40	149420.30	120.00	Control22 [b]		1.2	1.2	pCi/g		
571995.70	149793.04	135.00	Control23 [b]		1.2	1.2	pCi/g		
571995.70	149793.04	130.00	Control24 [b]		1.2	1.2	pCi/g		
571995.70	149793.04	125.00	Control25 [b]		1.2	1.2	pCi/g		
571830.00	150070.00	130.00	Control26 [b]		1.2	1.2	pCi/g		
571995.70	149793.04	120.00	Control27 [b]		1.2	1.2	pCi/g		
571342.00	149942.00	119.00	Control28 [b]		31.6	31.6	pCi/g		
571408.00	149965.00	119.00	Control29 [b]		31.6	31.6	pCi/g		
571830.00	150070.00	125.00	Control30 [b]		1.2	1.2	pCi/g		
571830.00	150070.00	120.00	Control31 [b]		1.2	1.2	pCi/g		
571830.00	150070.00	115.00	Control32 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	140.00	Control33 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	135.00	Control34 [b]		1.2	1.2	pCi/g		
572134.00	149835.00	130.00	Control35 [b]		1.2	1.2	pCi/g		

Table B-1. Soil Data for Sr-90

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. Value	Decayed Conc. Value	Units	Lab Qualifier	Sample
571300.00	149920.00	120.00	Control36 [b]		1.2	1.2	pCi/g		

a) Where samples were qualified as “non-detect” for Sr-90 (lab qualifier of “U”) the minimum detectable activity (MDA) was substituted for the reported value and not allowed to decay. Where no MDA was available, 1.2 pCi/g was used in place of the reported value. 1.2 pCi/g is the arithmetic mean MDA of the data queried in HEIS using the well list shown in Attachment A (for all samples reporting the MDA for Sr-90 and total beta radiostrontium).

b) The well does not exist. The value was created to prevent the interpolant from generating source terms to infinity in space.

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571424.79	149903.68	131.02	199-N-103A	1/30/1995	25000	7000	U	TPH	B0DRK7
571424.79	149903.68	122.11	199-N-103A	2/2/1995	26000	7000	U	TPH	B0DRK8
571424.79	149903.68	120.21	199-N-103A	2/6/1995	26000	7000	U	TPH	B0DRK9
571424.79	149903.68	116.62	199-N-103A	2/9/1995	27000	7000	U	TPH	B0DRL0
571778.32	149542.63	131.59	199-N-104A	2/22/1995	26000	7000	U	TPH	B0DRL1
571778.32	149542.63	113.91	199-N-104A	3/10/1995	28000	7000	U	TPH	B0DRL5
571602.30	150024.96	128.96	199-N-105A	3/21/1995	26000	7000	U	TPH	B0DRL6
571602.30	150024.96	123.78	199-N-105A	3/24/1995	26000	7000	U	TPH	B0DRL7
571602.30	150024.96	117.98	199-N-105A	4/4/1995	27000	7000	U	TPH	B0DRL8
571602.30	150024.96	113.41	199-N-105A	4/13/1995	27000	7000	U	TPH	B0DRL9
571713.10	150243.37	117.21	199-N-14	4/24/1995	28000	7000	U	TPH	B0DRM0
571713.10	150243.37	128.94	199-N-14	4/24/1995	26000	7000	U	TPH	B0DRM1
571368.29	149973.29	119.64	199-N-121	3/10/2004	4000	7000	U	TPH	B18NH6
571364.50	149968.34	118.98	199-N-119	3/18/2004	3900	7000	U	TPH	B18PK9
571193.02	149759.67	120.12	199-N-173	1/29/2009	3100	7000	U	TPH	B1YDD6
571193.02	149759.67	119.35	199-N-173	2/2/2009	59000	59000		TPH	B1YDF0
571193.02	149759.67	118.66	199-N-173	2/2/2009	64000	64000		TPH	B1YDF8
571193.02	149759.67	117.75	199-N-173	2/2/2009	140000	140000		TPH	B1YDH2
571193.02	149759.67	115.69	199-N-173	2/3/2009	3200	7000	U	TPH	B1YDH6
571193.02	149759.67	114.09	199-N-173	2/4/2009	3700	7000	U	TPH	B1YDJ0
571193.02	149759.67	112.56	199-N-173	2/5/2009	3800	7000	U	TPH	B1YDJ4
571193.02	149759.67	111.04	199-N-173	2/5/2009	3300	7000	U	TPH	B1YDJ8
571193.02	149759.67	109.49	199-N-173	2/5/2009	3600	7000	U	TPH	B1YDK2
571428.71	149819.87	109.05	199-N-182	6/29/2011	5000	7000	U	TPH	B2C1R6
571428.71	149819.87	93.96	199-N-182	7/12/2011	5000	7000	U	TPH	B2C1R9

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571269.69	149756.01	122.18	199-N-183	4/12/2011	70400	70400		TPH	B2C214
571269.69	149756.01	120.78	199-N-183	4/13/2011	298000	298000	D	TPH	B2C215
571269.69	149756.01	119.07	199-N-183	4/13/2011	752000	752000	D	TPH	B2C216
571269.69	149756.01	118.34	199-N-183	4/13/2011	547000	547000	D	TPH	B2C218
571269.69	149756.01	117.24	199-N-183	4/18/2011	220000	220000		TPH	B2C226
571269.69	149756.01	104.84	199-N-183	4/27/2011	5000	7000	U	TPH	B2C2B1
571269.69	149756.01	112.61	199-N-183	4/20/2011	5000	7000	U	TPH	B2C2B2
571430.74	149817.82	134.05	199-N-184	8/22/2011	3340	7000	U	TPH	B2C3T8
571430.74	149817.82	132.38	199-N-184	8/23/2011	3250	7000	U	TPH	B2C3T9
571430.74	149817.82	131.07	199-N-184	8/23/2011	3370	7000	U	TPH	B2C3V0
571430.74	149817.82	129.42	199-N-184	8/23/2011	3340	7000	U	TPH	B2C3V1
571430.74	149817.82	128.11	199-N-184	8/23/2011	3400	7000	U	TPH	B2C3V3
571430.74	149817.82	126.25	199-N-184	8/24/2011	3350	7000	U	TPH	B2C3V4
571430.74	149817.82	124.73	199-N-184	8/25/2011	939	939	J	TPH	B2C3V5
571430.74	149817.82	123.29	199-N-184	8/25/2011	1970	1970	J	TPH	B2C3V6
571430.74	149817.82	121.92	199-N-184	8/25/2011	3350	7000	U	TPH	B2C3V8
571430.74	149817.82	121.13	199-N-184	9/1/2011	3440	7000	U	TPH	B2C3V9
571430.74	149817.82	120.39	199-N-184	9/1/2011	3330	7000	U	TPH	B2C3W1
571430.74	149817.82	119.58	199-N-184	9/7/2011	3450	7000	U	TPH	B2C3W2
571430.74	149817.82	117.59	199-N-184	9/7/2011	1280	1280	J	TPH	B2C3W9
571480.87	149715.06	130.95	199-N-186	8/11/2011	5000	7000	U	TPH	B2C6P5
571480.87	149715.06	114.34	199-N-186	8/16/2011	4000	7000	U	TPH	B2C6P6
571480.87	149715.06	134.97	199-N-186	7/20/2011	3560	7000	U	TPH	B2C709
571480.87	149715.06	133.33	199-N-186	7/26/2011	3470	7000	U	TPH	B2C710
571480.87	149715.06	131.96	199-N-186	7/27/2011	3480	7000	U	TPH	B2C711

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571480.87	149715.06	130.31	199-N-186	7/27/2011	3430	7000	U	TPH	B2C713
571480.87	149715.06	128.76	199-N-186	8/1/2011	3460	7000	U	TPH	B2C714
571480.87	149715.06	127.23	199-N-186	8/2/2011	3410	7000	U	TPH	B2C715
571480.87	149715.06	125.77	199-N-186	8/2/2011	3490	7000	U	TPH	B2C716
571480.87	149715.06	122.66	199-N-186	8/3/2011	3410	7000	U	TPH	B2C719
571480.87	149715.06	121.96	199-N-186	8/4/2011	3360	7000	U	TPH	B2C720
571480.87	149715.06	121.11	199-N-186	8/4/2011	3390	7000	U	TPH	B2C722
571480.87	149715.06	120.44	199-N-186	8/8/2011	3440	7000	U	TPH	B2C723
571480.87	149715.06	119.67	199-N-186	8/8/2011	3460	7000	U	TPH	B2C724
571480.87	149715.06	124.19	199-N-186	8/3/2011	3580	7000	U	TPH	B2C726
571480.87	149715.06	118.91	199-N-186	8/9/2011	3610	7000	U	TPH	B2C731
571480.87	149715.06	117.24	199-N-186	8/9/2011	3740	7000	U	TPH	B2C732
571565.90	149897.96	134.93	199-N-187	7/21/2011	3470	7000	U	TPH	B2C7C2
571565.90	149897.96	131.71	199-N-187	8/9/2011	1350	1350	J	TPH	B2C7C4
571565.90	149897.96	130.58	199-N-187	8/10/2011	1730	1730	J	TPH	B2C7C7
571565.90	149897.96	128.68	199-N-187	8/11/2011	3520	7000	U	TPH	B2C7C9
571565.90	149897.96	127.59	199-N-187	8/15/2011	3450	7000	U	TPH	B2C7D1
571565.90	149897.96	124.19	199-N-187	8/17/2011	1760	1760	J	TPH	B2C7D4
571565.90	149897.96	122.43	199-N-187	8/17/2011	3420	7000	U	TPH	B2C7D6
571565.90	149897.96	121.91	199-N-187	8/17/2011	3480	7000	U	TPH	B2C7D7
571565.90	149897.96	121.03	199-N-187	8/18/2011	3380	7000	U	TPH	B2C7D9
571565.90	149897.96	120.45	199-N-187	8/18/2011	3170	3170	J	TPH	B2C7F0
571565.90	149897.96	119.56	199-N-187	8/22/2011	4150	4150		TPH	B2C7F1
571565.90	149897.96	119.08	199-N-187	8/23/2011	3610	7000	U	TPH	B2C7F2
571565.90	149897.96	125.63	199-N-187	8/16/2011	3420	7000	U	TPH	B2C7F3

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571565.90	149897.96	117.64	199-N-187	8/25/2011	3570	7000	U	TPH	B2C7F9
571565.90	149897.96	115.88	199-N-187	8/31/2011	4000	7000	U	TPH	B2C7W7
571565.90	149897.96	114.17	199-N-187	9/1/2011	5000	7000	U	TPH	B2C7W8
571906.94	149581.53	134.45	199-N-188	8/10/2011	3410	7000	U	TPH	B2CKL5
571906.94	149581.53	132.91	199-N-188	8/17/2011	3380	7000	U	TPH	B2CKL6
571906.94	149581.53	131.16	199-N-188	8/17/2011	3330	7000	U	TPH	B2CKL7
571906.94	149581.53	129.79	199-N-188	8/18/2011	3230	7000	U	TPH	B2CKL8
571906.94	149581.53	128.17	199-N-188	8/18/2011	3220	3220	J	TPH	B2CKM0
571906.94	149581.53	126.80	199-N-188	8/22/2011	1030	1030	J	TPH	B2CKM1
571906.94	149581.53	125.27	199-N-188	8/23/2011	3360	7000	U	TPH	B2CKM2
571906.94	149581.53	123.63	199-N-188	8/23/2011	3230	7000	U	TPH	B2CKM3
571906.94	149581.53	122.07	199-N-188	8/24/2011	3350	7000	U	TPH	B2CKM4
571906.94	149581.53	120.73	199-N-188	8/25/2011	3420	7000	U	TPH	B2CKM6
571906.94	149581.53	119.94	199-N-188	8/29/2011	3470	7000	U	TPH	B2CKM7
571906.94	149581.53	119.12	199-N-188	8/29/2011	3650	7000	U	TPH	B2CKM9
571906.94	149581.53	118.30	199-N-188	8/30/2011	3730	7000	U	TPH	B2CKN6
571906.94	149581.53	117.29	199-N-188	8/31/2011	1000	1000	J	TPH	B2CKN7
571906.94	149581.53	116.24	199-N-188	9/8/2011	4000	7000	U	TPH	B2CKW6
571906.94	149581.53	114.24	199-N-188	9/13/2011	5000	7000	U	TPH	B2CKW7
571269.69	149756.01	107.34	199-N-183	4/26/2011	4000	7000	U	TPH	B2D4K3
571395.05	149514.01	131.15	199-N-375	2/5/2015	2250	7000	U	TPH	B30C21
571395.05	149514.01	129.44	199-N-375	2/5/2015	2240	7000	U	TPH	B30C23
571395.05	149514.01	128.10	199-N-375	2/5/2015	2340	7000	U	TPH	B30C26
571395.05	149514.01	126.48	199-N-375	2/5/2015	2240	7000	U	TPH	B30C28
571395.05	149514.01	125.02	199-N-375	2/5/2015	2250	7000	U	TPH	B30C32

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571395.05	149514.01	123.53	199-N-375	2/9/2015	2220	7000	U	TPH	B30C34
571395.05	149514.01	121.97	199-N-375	2/9/2015	2320	7000	U	TPH	B30C36
571395.05	149514.01	120.40	199-N-375	2/9/2015	2240	7000	U	TPH	B30C38
571395.05	149514.01	118.92	199-N-375	2/9/2015	2350	7000	U	TPH	B30C40
571395.05	149514.01	112.34	199-N-375	2/12/2015	2440	7000	U	TPH	B30C42
571276.14	149441.79	135.89	199-N-373	6/9/2016	2240	7000	U	TPH	B35YB7
571276.14	149441.79	122.25	199-N-373	6/15/2016	4800	4800		TPH	B35YC6
571276.14	149441.79	120.91	199-N-373	6/20/2016	2240	7000	TU	TPH	B35YC8
571276.14	149441.79	119.88	199-N-373	6/20/2016	3700	3700	JB	TPH	B35YD2
571277.91	149677.94	131.93	199-N-377	8/8/2016	438000	438000	D	TPH	B366D1
571277.91	149677.94	128.88	199-N-377	8/8/2016	280000	280000	DJ	TPH	B366D5
571277.91	149677.94	127.29	199-N-377	8/9/2016	393000	393000	D	TPH	B366D9
571277.91	149677.94	125.04	199-N-377	8/10/2016	2300	7000	U	TPH	B366F6
571277.91	149677.94	123.34	199-N-377	8/10/2016	7780	7780		TPH	B366H0
571277.91	149677.94	118.45	199-N-377	8/10/2016	2790	2790	J	TPH	B366H3
571277.91	149677.94	120.86	199-N-377	8/11/2016	138000	138000	T	TPH	B366H7
571277.91	149677.94	119.24	199-N-377	8/11/2016	2260	7000	TU	TPH	B366J1
571277.91	149677.94	133.79	199-N-377	8/8/2016	2880000	2880000	D	TPH	B366J5
571263.29	149738.54	120.90	199-N-172	1/19/2009	4200000	4200000	D	TPH*	J180Y0
571263.29	149738.54	120.37	199-N-172		4000000	4000000		OIL/GREASE	J180Y1
571263.29	149738.54	119.45	199-N-172		3200000	3200000		OIL/GREASE	J180Y2
571263.29	149738.54	118.62	199-N-172		3500000	3500000		OIL/GREASE	J180Y3
571293.97	149705.43	119.65	199-N-169		2400000	2400000		OIL/GREASE	J180Y4
571293.11	149694.86	134.27	199-N-166		180000	180000	BC	OIL/GREASE	J180Y5
571293.11	149694.86	131.22	199-N-166		170000	170000	BC	OIL/GREASE	J180Y6

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571296.75	149698.29	119.59	199-N-167		4400000	4400000		OIL/GREASE	J180Y7
571296.75	149698.29	118.06	199-N-167		1600000	1600000		OIL/GREASE	J180Y8
571293.97	149705.43	118.51	199-N-169		450000	450000	B	OIL/GREASE	J180Y9
571286.06	149713.03	131.05	199-N-168		100000	100000	B	OIL/GREASE	J18100
571288.51	149714.84	119.68	199-N-170		4000000	4000000		OIL/GREASE	J18102
571288.51	149714.84	117.55	199-N-170		200000	200000	B	OIL/GREASE	J18103
571296.70	149740.08	119.85	199-N-171		3400000	3400000		OIL/GREASE	J18105
571296.70	149740.08	117.41	199-N-171		610000	610000		OIL/GREASE	J18108
571263.29	149738.54	139.04	199-N-172		130000	130000	B	OIL/GREASE	J187T5
571263.29	149738.54	137.51	199-N-172		180000	180000	B	OIL/GREASE	J187T6
571263.29	149738.54	135.99	199-N-172		89000	7000	U	OIL/GREASE	J187T7
571263.29	149738.54	134.47	199-N-172		88000	7000	U	OIL/GREASE	J187T8
571263.29	149738.54	132.94	199-N-172		92000	92000	B	OIL/GREASE	J187T9
571263.29	149738.54	131.42	199-N-172		110000	110000	B	OIL/GREASE	J187V0
571263.29	149738.54	129.89	199-N-172		88000	7000	U	OIL/GREASE	J187V1
571263.29	149738.54	128.37	199-N-172		88000	7000	U	OIL/GREASE	J187V2
571263.29	149738.54	126.85	199-N-172		88000	7000	U	OIL/GREASE	J187V3
571263.29	149738.54	125.32	199-N-172		150000	150000	B	OIL/GREASE	J187V4
571263.29	149738.54	123.80	199-N-172		89000	7000	U	OIL/GREASE	J187V5
571263.29	149738.54	122.27	199-N-172		690000	690000		OIL/GREASE	J187V6
571263.29	149738.54	120.75	199-N-172		2200000	2200000		OIL/GREASE	J187V7
571263.29	149738.54	119.23	199-N-172		3300000	3300000		OIL/GREASE	J187V8
571263.29	149738.54	117.70	199-N-172		4100000	4100000		OIL/GREASE	J187V9
571263.29	149738.54	116.18	199-N-172		200000	200000	B	OIL/GREASE	J187W0
571286.06	149713.03	139.35	199-N-168		100000	100000	B	OIL/GREASE	J188R7

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571286.06	149713.03	137.83	199-N-168		100000	100000	B	OIL/GREASE	J188R8
571286.06	149713.03	136.30	199-N-168		290000	290000	B	OIL/GREASE	J188R9
571286.06	149713.03	134.78	199-N-168		140000	140000	B	OIL/GREASE	J188T0
571286.06	149713.03	133.26	199-N-168		89000	7000	U	OIL/GREASE	J188T1
571286.06	149713.03	131.73	199-N-168		240000	240000	B	OIL/GREASE	J188T2
571293.97	149705.43	127.05	199-N-169		88000	7000	U	OIL/GREASE	J188V3
571293.97	149705.43	125.52	199-N-169		140000	140000	B	OIL/GREASE	J188V4
571293.97	149705.43	124.00	199-N-169		88000	7000	U	OIL/GREASE	J188V5
571293.97	149705.43	122.47	199-N-169		3800000	3800000		OIL/GREASE	J188V6
571293.97	149705.43	120.95	199-N-169		3800000	3800000		OIL/GREASE	J188V7
571293.97	149705.43	119.43	199-N-169		3000000	3000000		OIL/GREASE	J188V8
571293.97	149705.43	117.90	199-N-169		150000	150000	B	OIL/GREASE	J188W0
571293.97	149705.43	116.38	199-N-169		100000	100000	B	OIL/GREASE	J188W1
571293.11	149694.86	139.22	199-N-166		980000	980000		OIL/GREASE	J188W2
571293.11	149694.86	137.70	199-N-166		1100000	1100000		OIL/GREASE	J188W3
571293.11	149694.86	136.18	199-N-166		220000	220000	B	OIL/GREASE	J188W4
571293.11	149694.86	134.65	199-N-166		110000	110000	B	OIL/GREASE	J188W5
571293.11	149694.86	133.13	199-N-166		98000	98000	B	OIL/GREASE	J188W6
571293.11	149694.86	131.60	199-N-166		94000	94000	B	OIL/GREASE	J188W7
571296.75	149698.29	139.17	199-N-167		140000	140000	B	OIL/GREASE	J188W8
571296.75	149698.29	137.65	199-N-167		88000	88000	B	OIL/GREASE	J188W9
571296.75	149698.29	136.12	199-N-167		88000	7000	U	OIL/GREASE	J188X0
571296.75	149698.29	134.60	199-N-167		90000	90000	B	OIL/GREASE	J188X1
571296.75	149698.29	133.08	199-N-167		300000	300000	B	OIL/GREASE	J188X2
571296.75	149698.29	131.55	199-N-167		89000	89000	B	OIL/GREASE	J188X3

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571296.75	149698.29	130.03	199-N-167		140000	140000	B	OIL/GREASE	J188X4
571296.75	149698.29	128.50	199-N-167		160000	160000	B	OIL/GREASE	J188X5
571296.75	149698.29	126.98	199-N-167		110000	110000	B	OIL/GREASE	J188X6
571296.75	149698.29	125.46	199-N-167		88000	7000	U	OIL/GREASE	J188X7
571296.75	149698.29	123.93	199-N-167		150000	150000	B	OIL/GREASE	J188X8
571296.75	149698.29	122.41	199-N-167		1600000	1600000		OIL/GREASE	J188X9
571296.75	149698.29	120.88	199-N-167		2200000	2200000		OIL/GREASE	J188Y0
571296.75	149698.29	119.36	199-N-167		3200000	3200000		OIL/GREASE	J188Y1
571296.75	149698.29	117.84	199-N-167		620000	620000	C	OIL/GREASE	J188Y2
571296.75	149698.29	116.31	199-N-167		120000	120000	B	OIL/GREASE	J188Y3
571293.97	149705.43	139.24	199-N-169		94000	7000	U	OIL/GREASE	J188Y4
571293.97	149705.43	137.71	199-N-169		90000	7000	U	OIL/GREASE	J188Y5
571293.97	149705.43	136.19	199-N-169		89000	7000	U	OIL/GREASE	J188Y6
571293.97	149705.43	134.67	199-N-169		88000	7000	U	OIL/GREASE	J188Y7
571293.97	149705.43	133.14	199-N-169		88000	7000	U	OIL/GREASE	J188Y8
571293.97	149705.43	131.62	199-N-169		140000	140000	B	OIL/GREASE	J188Y9
571293.97	149705.43	130.09	199-N-169		1.8E+07	18000000		OIL/GREASE	J18900
571293.97	149705.43	128.57	199-N-169		88000	7000	U	OIL/GREASE	J18901
571288.51	149714.84	139.27	199-N-170		180000	180000	B	OIL/GREASE	J18JW6
571288.51	149714.84	137.74	199-N-170		89000	7000	U	OIL/GREASE	J18JW7
571288.51	149714.84	136.22	199-N-170		110000	110000	B	OIL/GREASE	J18JW8
571288.51	149714.84	134.70	199-N-170		730000	730000		OIL/GREASE	J18JW9
571288.51	149714.84	133.17	199-N-170		210000	210000	B	OIL/GREASE	J18JX0
571288.51	149714.84	131.65	199-N-170		110000	110000	B	OIL/GREASE	J18JX1
571288.51	149714.84	130.12	199-N-170		130000	130000	B	OIL/GREASE	J18JX2

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571288.51	149714.84	128.60	199-N-170		89000	7000	U	OIL/GREASE	J18JX3
571288.51	149714.84	127.08	199-N-170		100000	100000	BC	OIL/GREASE	J18JX4
571288.51	149714.84	125.55	199-N-170		100000	100000	BC	OIL/GREASE	J18JX5
571288.51	149714.84	124.03	199-N-170		230000	230000	BC	OIL/GREASE	J18JX6
571288.51	149714.84	122.50	199-N-170		2300000	2300000		OIL/GREASE	J18JX7
571288.51	149714.84	120.98	199-N-170		3100000	3100000		OIL/GREASE	J18JX8
571288.51	149714.84	119.46	199-N-170		2100000	2100000		OIL/GREASE	J18JX9
571288.51	149714.84	117.93	199-N-170		650000	650000		OIL/GREASE	J18JY0
571288.51	149714.84	116.41	199-N-170		150000	150000	BC	OIL/GREASE	J18JY1
571296.70	149740.08	139.44	199-N-171		89000	7000	U	OIL/GREASE	J18JY2
571296.70	149740.08	137.91	199-N-171		89000	7000	U	OIL/GREASE	J18JY3
571296.70	149740.08	136.39	199-N-171		88000	7000	U	OIL/GREASE	J18JY4
571296.70	149740.08	134.86	199-N-171		88000	7000	U	OIL/GREASE	J18JY5
571296.70	149740.08	133.34	199-N-171		100000	100000	BC	OIL/GREASE	J18JY6
571296.70	149740.08	131.82	199-N-171		96000	96000	BC	OIL/GREASE	J18JY7
571296.70	149740.08	130.29	199-N-171		120000	120000	BC	OIL/GREASE	J18JY8
571296.70	149740.08	128.77	199-N-171		180000	180000	BC	OIL/GREASE	J18JY9
571296.70	149740.08	127.24	199-N-171		88000	7000	U	OIL/GREASE	J18K00
571296.70	149740.08	125.72	199-N-171		90000	7000	U	OIL/GREASE	J18K01
571296.70	149740.08	124.20	199-N-171		110000	110000	BC	OIL/GREASE	J18K02
571296.70	149740.08	122.67	199-N-171		120000	120000	BC	OIL/GREASE	J18K03
571296.70	149740.08	121.15	199-N-171		3400000	3400000		OIL/GREASE	J18K04
571296.70	149740.08	119.62	199-N-171		2200000	2200000		OIL/GREASE	J18K05
571296.70	149740.08	118.10	199-N-171		2300000	2300000		OIL/GREASE	J18K06
571296.70	149740.08	116.58	199-N-171		120000	120000	BC	OIL/GREASE	J18K07

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571150.121	149707.2493	138.476	Control1 [b]		0	7000			
571150.121	149707.2493	135.428	Control2 [b]		0	7000			
571150.121	149707.2493	132.38	Control3 [b]		0	7000			
571150.121	149707.2493	129.332	Control4 [b]		0	7000			
571150.121	149707.2493	126.284	Control5 [b]		0	7000			
571150.121	149707.2493	123.236	Control6 [b]		0	7000			
571150.121	149707.2493	120.188	Control7 [b]		0	7000			
571232.406	149822.3433	138.476	Control8 [b]		0	7000			
571232.406	149822.3433	135.428	Control9 [b]		0	7000			
571232.406	149822.3433	132.38	Control10 [b]		0	7000			
571232.406	149822.3433	129.332	Control11 [b]		0	7000			
571232.406	149822.3433	126.284	Control12 [b]		0	7000			
571232.406	149822.3433	123.236	Control13 [b]		0	7000			
571232.406	149822.3433	120.188	Control14 [b]		0	7000			
571207.8	149682.3784	138.476	Control15 [b]		0	7000			
571207.8	149682.3784	135.428	Control16 [b]		0	7000			
571207.8	149682.3784	132.38	Control17 [b]		0	7000			
571207.8	149682.3784	129.332	Control18 [b]		0	7000			
571207.8	149682.3784	126.284	Control19 [b]		0	7000			
571207.8	149682.3784	123.236	Control20 [b]		0	7000			
571207.8	149682.3784	120.188	Control21 [b]		0	7000			
571268.39	149652.7451	138.476	Control22 [b]		0	7000			

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571268.39	149652.7451	135.428	Control23 [b]		0	7000			
571268.39	149652.7451	132.38	Control24 [b]		0	7000			
571268.39	149652.7451	129.332	Control25 [b]		0	7000			
571268.39	149652.7451	126.284	Control26 [b]		0	7000			
571268.39	149652.7451	123.236	Control27 [b]		0	7000			
571268.39	149652.7451	120.188	Control28 [b]		0	7000			
571315.75	149644.2784	138.476	Control29 [b]		0	7000			
571315.75	149644.2784	135.428	Control30 [b]		0	7000			
571315.75	149644.2784	132.38	Control31 [b]		0	7000			
571315.75	149644.2784	129.332	Control32 [b]		0	7000			
571315.75	149644.2784	126.284	Control33 [b]		0	7000			
571315.75	149644.2784	123.236	Control34 [b]		0	7000			
571315.75	149644.2784	120.188	Control35 [b]		0	7000			
571353.85	149650.893	138.476	Control36 [b]		0	7000			
571353.85	149650.893	135.428	Control37 [b]		0	7000			
571353.85	149650.893	132.38	Control38 [b]		0	7000			
571353.85	149650.893	129.332	Control39 [b]		0	7000			
571353.85	149650.893	126.284	Control40 [b]		0	7000			
571353.85	149650.893	123.236	Control41 [b]		0	7000			
571353.85	149650.893	120.188	Control42 [b]		0	7000			
571373.43	149684.2305	138.476	Control43 [b]		0	7000			
571373.43	149684.2305	135.428	Control44 [b]		0	7000			

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571373.43	149684.2305	132.38	Control45 [b]		0	7000			
571373.43	149684.2305	129.332	Control46 [b]		0	7000			
571373.43	149684.2305	126.284	Control47 [b]		0	7000			
571373.43	149684.2305	123.236	Control48 [b]		0	7000			
571373.43	149684.2305	120.188	Control49 [b]		0	7000			
571375.546	149735.0306	138.476	Control50 [b]		0	7000			
571375.546	149735.0306	135.428	Control51 [b]		0	7000			
571375.546	149735.0306	132.38	Control52 [b]		0	7000			
571375.546	149735.0306	129.332	Control53 [b]		0	7000			
571375.546	149735.0306	126.284	Control54 [b]		0	7000			
571375.546	149735.0306	123.236	Control55 [b]		0	7000			
571375.546	149735.0306	120.188	Control56 [b]		0	7000			
571348.823	149771.2786	138.476	Control57 [b]		0	7000			
571348.823	149771.2786	135.428	Control58 [b]		0	7000			
571348.823	149771.2786	132.38	Control59 [b]		0	7000			
571348.823	149771.2786	129.332	Control60 [b]		0	7000			
571348.823	149771.2786	126.284	Control61 [b]		0	7000			
571348.823	149771.2786	123.236	Control62 [b]		0	7000			
571348.823	149771.2786	120.188	Control63 [b]		0	7000			
571290.615	149798.5308	138.476	Control64 [b]		0	7000			
571290.615	149798.5308	135.428	Control65 [b]		0	7000			
571290.615	149798.5308	132.38	Control66 [b]		0	7000			

Table B-2. Soil Data for TPH-Diesel

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Conc. (µg/kg)	Conc. Value Used (µg/kg) [a]	Lab Qualifier	COC ID	Sample
571290.615	149798.5308	129.332	Control67 [b]		0	7000			
571290.615	149798.5308	126.284	Control68 [b]		0	7000			
571290.615	149798.5308	123.236	Control69 [b]		0	7000			
571290.615	149798.5308	120.188	Control70 [b]		0	7000			

* Changed to TPH from OIL/GREASE to have more conservative value. Original value was 3,300,000 µg/kg

a) All values with a lab qualifier of "U" were implemented in the model with a value of 7000 µg/kg to override the original value. The default of 7000 µg/kg was implemented to help mitigate the wide variability of reported values of TPH in samples that were marked as Non-Detect's. 7000 µg/kg was selected as a conservative value compared with the arithmetic mean of all Non-Detect samples queried in HEIS for the 100-N Area using the Well ID's listed in Attachment A in the query (6492.4 µg/kg).

b) The well does not exist. This point was generated as a way of creating a spatial boundary to limit the interpolant from extending into infinity.

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
572039.00	149699.00	134.93	116-N-3		µg/kg	U	200	200	B12P74
572003.00	149630.00	139.41	116-N-3		µg/kg	U	200	200	B12P76
572009.00	149629.00	139.76	116-N-3		µg/kg		590	590	B12P78
571986.00	149613.00	138.13	116-N-3		µg/kg	U	200	200	B12P79
572064.00	149733.00	136.20	116-N-3		µg/kg		560	560	B12P80
572020.00	149707.00	135.68	116-N-3		µg/kg	U	200	200	B12P81
572011.00	149695.00	135.37	116-N-3		µg/kg	U	190	200	B12P84
572068.00	149767.00	137.46	116-N-3		µg/kg	U	190	200	B12P85
572110.00	149801.00	137.60	116-N-3		µg/kg	U	190	200	B12P86
571966.00	149619.00	135.18	116-N-3		µg/kg		650	650	B12P87
572029.00	149700.00	132.82	116-N-3		µg/kg	U	190	200	B12P88
571988.00	149623.00	136.26	116-N-3		µg/kg		6000	6000	B12P90
572012.00	149641.00	136.05	116-N-3		µg/kg		14800	14800	B12P91
572054.00	149729.00	133.88	116-N-3		µg/kg	U	200	200	B12P92
572001.00	149656.00	134.00	116-N-3		µg/kg		7600	7600	B12P93
571994.00	149668.00	133.70	116-N-3		µg/kg		250	250	B12P94
572070.00	149763.00	135.12	116-N-3		µg/kg	U	180	200	B12P95
572010.00	149686.00	132.86	116-N-3		µg/kg	U	190	200	B12P96
571992.00	149671.00	136.19	116-N-3		µg/kg		810	810	B13CF6
572097.00	149802.00	139.39	116-N-3		µg/kg	U	200	200	B13CF7
571534.00	149675.00	140.64	116-N-3		µg/kg		1900	1900	B14500
571552.00	149688.00	141.84	116-N-3		µg/kg		580	580	B14502

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571542.00	149704.00	140.36	116-N-3		µg/kg		990	990	B14503
571568.00	149687.00	140.71	116-N-3		µg/kg		1400	1400	B14504
571647.00	149694.00	142.05	116-N-3		µg/kg		4700	4700	B14505
571823.00	149614.00	140.00	116-N-3		µg/kg		5300	5300	B14506
571657.00	149692.00	141.81	116-N-3		µg/kg		1000	1000	B14507
571695.00	149689.00	141.37	116-N-3		µg/kg		9700	9700	B14508
571645.00	149692.00	142.07	116-N-3		µg/kg		2400	2400	B14509
571806.00	149610.00	140.00	116-N-3		µg/kg		11200	11200	B14510
571909.00	149649.00	139.67	116-N-3		µg/kg		210	210	B14CL3
571901.00	149650.00	139.85	116-N-3		µg/kg		2100	2100	B14CL5
571923.00	149658.00	139.70	116-N-3		µg/kg		750	750	B14CL6
571981.00	149560.00	134.09	116-N-3		µg/kg		1100	1100	B14CL7
571918.00	149657.00	139.76	116-N-3		µg/kg	U	180	200	B14CL8
571914.00	149541.00	138.85	116-N-3		µg/kg	U	180	200	B14CL9
571855.00	149607.00	141.54	116-N-3		µg/kg	U	200	200	B14CM0
571877.00	149547.00	141.05	116-N-3		µg/kg	U	160	200	B14CM1
571987.00	149569.00	135.85	116-N-3		µg/kg		540	540	B14CM2
571957.00	149654.00	138.87	116-N-3		µg/kg		200	200	B14CM3
571888.00	149627.00	137.56	116-N-3		µg/kg		260	260	B14CM5
571951.00	149612.00	135.42	116-N-3		µg/kg	U	190	200	B14CM6
571896.00	149552.00	137.79	116-N-3		µg/kg		200	200	B14CM7
571866.00	149594.00	139.15	116-N-3		µg/kg	U	200	200	B14CM8

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571931.00	149550.00	134.28	116-N-3		µg/kg		800	800	B14CM9
571917.00	149591.00	135.67	116-N-3		µg/kg		750	750	B14CN0
571946.00	149605.00	135.12	116-N-3		µg/kg		300	300	B14CN1
571884.00	149573.00	138.88	116-N-3		µg/kg		400	400	B14CN2
571906.00	149578.00	136.63	116-N-3		µg/kg	U	40	200	B14CN3
571878.00	149577.00	139.05	116-N-3		µg/kg		210	210	B14CN4
571193.02	149759.67	120.12	199-N-173	1/29/2009	µg/kg	BD	4560	4560	B1YDD6
571193.02	149759.67	119.35	199-N-173	2/2/2009	µg/kg	BD	5400	5400	B1YDF0
571193.02	149759.67	118.66	199-N-173	2/2/2009	µg/kg	BD	5220	5220	B1YDF8
571193.02	149759.67	117.75	199-N-173	2/2/2009	µg/kg	BD	2760	2760	B1YDH2
571193.02	149759.67	115.69	199-N-173	2/3/2009	µg/kg	BD	3310	3310	B1YDH6
571193.02	149759.67	114.09	199-N-173	2/4/2009	µg/kg	BD	12600	12600	B1YDJ0
571193.02	149759.67	112.56	199-N-173	2/5/2009	µg/kg	BD	14600	14600	B1YDJ4
571193.02	149759.67	111.04	199-N-173	2/5/2009	µg/kg	BD	7440	7440	B1YDJ8
571193.02	149759.67	109.49	199-N-173	2/5/2009	µg/kg	BD	2080	2080	B1YDK2
571428.71	149819.87	109.05	199-N-182	6/29/2011	µg/kg	U	4870	4870	B2C1R6
571428.71	149819.87	101.11	199-N-182		µg/kg	U	4870	4870	B2C1R7
571428.71	149819.87	93.96	199-N-182	7/12/2011	µg/kg	U	5310	5310	B2C1R9
571269.69	149756.01	122.18	199-N-183	4/12/2011	µg/kg		20800	20800	B2C214
571269.69	149756.01	120.78	199-N-183	4/13/2011	µg/kg	U	5100	5100	B2C215
571269.69	149756.01	118.34	199-N-183	4/13/2011	µg/kg	U	5600	5600	B2C218
571269.69	149756.01	117.24	199-N-183	4/18/2011	µg/kg	U	5700	5700	B2C226

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571269.69	149756.01	104.84	199-N-183	4/27/2011	µg/kg	U	5310	5310	B2C2B1
571430.74	149817.82	134.05	199-N-184	8/22/2011	µg/kg		7000	7000	B2C3T8
571430.74	149817.82	132.38	199-N-184	8/23/2011	µg/kg		6500	6500	B2C3T9
571430.74	149817.82	131.07	199-N-184	8/23/2011	µg/kg	B	3700	3700	B2C3V0
571430.74	149817.82	129.42	199-N-184	8/23/2011	µg/kg	B	1900	1900	B2C3V1
571430.74	149817.82	128.11	199-N-184	8/23/2011	µg/kg	B	1800	1800	B2C3V3
571430.74	149817.82	126.25	199-N-184	8/24/2011	µg/kg	B	2100	2100	B2C3V4
571430.74	149817.82	124.73	199-N-184	8/25/2011	µg/kg	B	1600	1600	B2C3V5
571430.74	149817.82	123.29	199-N-184	8/25/2011	µg/kg	U	5600	5600	B2C3V6
571430.74	149817.82	121.92	199-N-184	8/25/2011	µg/kg	U	5100	5100	B2C3V8
571430.74	149817.82	121.13	199-N-184	9/1/2011	µg/kg	U	5100	5100	B2C3W0
571430.74	149817.82	120.39	199-N-184	9/1/2011	µg/kg	U	5200	5200	B2C3W1
571430.74	149817.82	119.58	199-N-184	9/7/2011	µg/kg	B	1100	1100	B2C3W2
571430.74	149817.82	117.59	199-N-184	9/7/2011	µg/kg	B	2600	2600	B2C3W9
571480.87	149715.06	130.95	199-N-186	8/11/2011	µg/kg	B	20500	20500	B2C6P5
571480.87	149715.06	114.34	199-N-186	8/16/2011	µg/kg	B	6020	6020	B2C6P6
571480.87	149715.06	134.97	199-N-186	7/20/2011	µg/kg		15400	15400	B2C709
571480.87	149715.06	133.33	199-N-186	7/26/2011	µg/kg		13500	13500	B2C710
571480.87	149715.06	131.96	199-N-186	7/27/2011	µg/kg		14500	14500	B2C711
571480.87	149715.06	130.31	199-N-186	7/27/2011	µg/kg		12200	12200	B2C713
571480.87	149715.06	128.76	199-N-186	8/1/2011	µg/kg		7700	7700	B2C714
571480.87	149715.06	127.23	199-N-186	8/2/2011	µg/kg		7600	7600	B2C715

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571480.87	149715.06	125.77	199-N-186	8/2/2011	µg/kg		11000	11000	B2C716
571480.87	149715.06	124.19	199-N-186	8/3/2011	µg/kg		17900	17900	B2C717
571480.87	149715.06	122.66	199-N-186	8/3/2011	µg/kg		8900	8900	B2C719
571480.87	149715.06	121.96	199-N-186	8/4/2011	µg/kg		12300	12300	B2C720
571480.87	149715.06	121.11	199-N-186	8/4/2011	µg/kg		11000	11000	B2C722
571480.87	149715.06	120.44	199-N-186	8/8/2011	µg/kg		15800	15800	B2C723
571480.87	149715.06	119.67	199-N-186	8/8/2011	µg/kg		11300	11300	B2C724
571480.87	149715.06	118.91	199-N-186	8/9/2011	µg/kg		16700	16700	B2C731
571480.87	149715.06	117.24	199-N-186	8/9/2011	µg/kg		21900	21900	B2C732
571565.90	149897.96	134.93	199-N-187	7/21/2011	µg/kg		13700	13700	B2C7C2
571565.90	149897.96	131.71	199-N-187	8/9/2011	µg/kg		14900	14900	B2C7C4
571565.90	149897.96	130.58	199-N-187	8/10/2011	µg/kg	B	3800	3800	B2C7C7
571565.90	149897.96	128.68	199-N-187	8/11/2011	µg/kg		19800	19800	B2C7C9
571565.90	149897.96	127.59	199-N-187	8/15/2011	µg/kg		22200	22200	B2C7D1
571565.90	149897.96	124.19	199-N-187	8/17/2011	µg/kg	B	1500	1500	B2C7D4
571565.90	149897.96	122.43	199-N-187	8/17/2011	µg/kg	B	2100	2100	B2C7D6
571565.90	149897.96	121.91	199-N-187	8/17/2011	µg/kg		6300	6300	B2C7D7
571565.90	149897.96	121.03	199-N-187	8/18/2011	µg/kg	B	4400	4400	B2C7D9
571565.90	149897.96	120.45	199-N-187	8/18/2011	µg/kg	B	4400	4400	B2C7F0
571565.90	149897.96	119.56	199-N-187	8/22/2011	µg/kg		8600	8600	B2C7F1
571565.90	149897.96	119.08	199-N-187	8/23/2011	µg/kg	B	3200	3200	B2C7F2
571565.90	149897.96	125.63	199-N-187	8/16/2011	µg/kg		13400	13400	B2C7F3

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571565.90	149897.96	117.64	199-N-187	8/25/2011	µg/kg	U	5300	5300	B2C7F9
571565.90	149897.96	115.88	199-N-187	8/31/2011	µg/kg	B	7130	7130	B2C7W7
571565.90	149897.96	114.17	199-N-187	9/1/2011	µg/kg	B	8900	8900	B2C7W8
571906.94	149581.53	134.45	199-N-188	8/10/2011	µg/kg	B	4600	4600	B2CKL5
571906.94	149581.53	132.91	199-N-188	8/17/2011	µg/kg		66000	66000	B2CKL6
571906.94	149581.53	131.16	199-N-188	8/17/2011	µg/kg		7800	7800	B2CKL7
571906.94	149581.53	129.79	199-N-188	8/18/2011	µg/kg		6400	6400	B2CKL8
571906.94	149581.53	128.17	199-N-188	8/18/2011	µg/kg		8000	8000	B2CKM0
571906.94	149581.53	125.27	199-N-188	8/23/2011	µg/kg		15300	15300	B2CKM2
571906.94	149581.53	123.63	199-N-188	8/23/2011	µg/kg		12800	12800	B2CKM3
571906.94	149581.53	122.07	199-N-188	8/24/2011	µg/kg		5800	5800	B2CKM4
571906.94	149581.53	120.73	199-N-188	8/25/2011	µg/kg	B	4500	4500	B2CKM6
571906.94	149581.53	119.94	199-N-188	8/29/2011	µg/kg		6200	6200	B2CKM7
571906.94	149581.53	119.12	199-N-188	8/29/2011	µg/kg		27300	27300	B2CKM9
571906.94	149581.53	126.80	199-N-188	8/22/2011	µg/kg		12600	12600	B2CKN1
571906.94	149581.53	118.30	199-N-188	8/30/2011	µg/kg		11500	11500	B2CKN6
571906.94	149581.53	117.29	199-N-188	8/31/2011	µg/kg	B	1200	1200	B2CKN7
571906.94	149581.53	116.24	199-N-188	9/8/2011	µg/kg	B	4600	4600	B2CKW6
571906.94	149581.53	114.24	199-N-188	9/13/2011	µg/kg	B	5270	5270	B2CKW7
571269.69	149756.01	107.34	199-N-183	4/26/2011	µg/kg	B	5180	5180	B2D4K3
571133.65	149571.82	132.14	199-N-371	5/24/2016	µg/kg	B	2390	2390	B35VB5
571133.65	149571.82	124.39	199-N-371	5/24/2016	µg/kg	U	1510	1510	B35VC1
571133.65	149571.82	120.61	199-N-371	5/25/2016	µg/kg	B	2570	2570	B35VC7

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571133.65	149571.82	119.15	199-N-371	5/25/2016	µg/kg	U	1560	1560	B35VD3
571276.14	149441.79	135.89	199-N-373	6/9/2016	µg/kg		7480	7480	B35YB7
571276.14	149441.79	129.84	199-N-373	6/14/2016	µg/kg	B	2080	2080	B35YC0
571276.14	149441.79	122.25	199-N-373	6/15/2016	µg/kg	B	2260	2260	B35YC5
571276.14	149441.79	120.91	199-N-373	6/20/2016	µg/kg		8810	8810	B35YC8
571276.14	149441.79	119.88	199-N-373	6/20/2016	µg/kg	B	3230	3230	B35YD1
571137.72	149346.36	127.68	199-N-376	7/14/2016	µg/kg		5090	5090	B36645
571137.72	149346.36	121.60	199-N-376	7/19/2016	µg/kg		5620	5620	B36654
571137.72	149346.36	119.66	199-N-376	7/20/2016	µg/kg	B	4230	4230	B36659
571277.91	149677.94	127.29	199-N-377	8/9/2016	µg/kg		8150	8150	B366D9
571277.91	149677.94	125.04	199-N-377	8/10/2016	µg/kg		4690	4690	B366F6
571277.91	149677.94	123.34	199-N-377	8/10/2016	µg/kg	B	4230	4230	B366H0
571277.91	149677.94	120.86	199-N-377	8/11/2016	µg/kg	U	1500	1500	B366H7
571277.91	149677.94	119.24	199-N-377	8/11/2016	µg/kg	B	4320	4320	B366J1
571627.00	149983.00	138.36	116-N-1		µg/kg	U	180	200	J00WM8
571654.00	149972.00	136.79	116-N-1		µg/kg		1700	1700	J00WN0
571724.00	149775.00	140.79	116-N-1		µg/kg		2900	2900	J015L2
571698.00	149785.00	141.20	116-N-1		µg/kg		16700	16700	J015L3
571739.00	149804.00	140.40	116-N-1		µg/kg		490	490	J015L4
571742.00	149845.00	141.05	116-N-1		µg/kg		8600	8600	J015L5
571667.00	149848.00	140.12	116-N-1		µg/kg		8600	8600	J015L6
571707.00	149826.00	141.19	116-N-1		µg/kg		2200	2200	J015L7
571711.00	149809.00	141.03	116-N-1		µg/kg		23600	23600	J015L8
571670.00	149802.00	141.47	116-N-1		µg/kg		5200	5200	J015L9

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571651.00	149800.00	140.37	116-N-1		µg/kg		2300	2300	J015M0
571712.00	149829.00	141.17	116-N-1		µg/kg		23800	23800	J015M1
571689.30	149950.60	139.09	116-N-1		µg/kg		1110	1110	J01Y88
571692.50	149957.40	139.31	116-N-1		µg/kg		690	690	J01Y89
571695.80	149964.20	139.50	116-N-1		µg/kg		830	830	J01Y90
571455.00	149758.00	138.22	116-N-1		µg/kg		27100	27100	J10F90
571444.00	149740.00	138.10	116-N-1		µg/kg		680	680	J10F91
571426.00	149676.00	137.38	116-N-1		µg/kg		5640	5640	J10F92
571439.00	149669.00	137.80	116-N-1		µg/kg		7780	7780	J10F93
571464.00	149660.00	137.86	116-N-1		µg/kg		7140	7140	J10F94
571481.00	149651.00	138.23	116-N-1		µg/kg		7270	7270	J10F95
571509.00	149652.00	137.90	116-N-1		µg/kg		17400	17400	J10F96
571519.00	149666.00	138.10	116-N-1		µg/kg		3020	3020	J10F97
571500.00	149690.00	139.10	116-N-1		µg/kg		10900	10900	J10F98
571516.00	149708.00	138.41	116-N-1		µg/kg		6390	6390	J10F99
571711.00	150070.00	138.43	116-N-1		µg/kg		1600	1600	J10FB0
571615.00	149954.00	138.30	116-N-1		µg/kg		340	340	J10FB1
571559.00	149947.00	137.76	116-N-1		µg/kg		1840	1840	J10FB2
571539.00	149841.00	138.29	116-N-1		µg/kg		500	500	J10FB3
571568.00	149786.00	138.69	116-N-1		µg/kg		890	890	J10FB5
571597.00	149874.00	138.43	116-N-1		µg/kg		17200	17200	J10FB6
571658.00	149891.00	137.79	116-N-1		µg/kg		1050	1050	J10FB7
571681.00	149919.00	138.00	116-N-1		µg/kg		5740	5740	J10FB8
571740.00	149995.00	138.52	116-N-1		µg/kg		2230	2230	J10FB9

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571548.00	149746.00	138.55	116-N-1		µg/kg		1700	1700	J10FC2
571478.00	149716.00	136.64	116-N-1		µg/kg		1480	1480	J10FC8
571508.00	149741.00	136.93	116-N-1		µg/kg		1140	1140	J10FD0
571487.00	149737.00	136.86	116-N-1		µg/kg		1020	1020	J10FD1
571458.00	149744.00	136.17	116-N-1		µg/kg		340	340	J10FD2
571470.00	149731.00	136.52	116-N-1		µg/kg	U	210	200	J10FD3
571507.00	149705.00	136.46	116-N-1		µg/kg		2520	2520	J10FD5
571566.00	149700.00	136.87	116-N-1		µg/kg		5520	5520	J10FD6
571489.00	149672.00	136.62	116-N-1		µg/kg		390	390	J10FD7
571440.00	149681.00	136.17	116-N-1		µg/kg		3990	3990	J10FD9
571723.00	150045.00	136.58	116-N-1		µg/kg	D	18500	18500	J10FF0
571723.00	150016.00	136.34	116-N-1		µg/kg		2620	2620	J10FF1
571692.00	150007.00	136.90	116-N-1		µg/kg	U	210	200	J10FF2
571651.00	149945.00	136.28	116-N-1		µg/kg		1340	1340	J10FF3
571658.00	149936.00	135.80	116-N-1		µg/kg		1950	1950	J10FF4
571635.00	149923.00	136.04	116-N-1		µg/kg	U	200	200	J10FF5
571454.00	149700.00	136.68	116-N-1		µg/kg		4290	4290	J10FF6
571489.00	149671.00	136.58	116-N-1		µg/kg	D	102000	102000	J10FF7
571489.00	149656.00	136.06	116-N-1		µg/kg	D	58300	58300	J10FF8
571263.29	149738.54	119.83	199-N-172	1/19/2009	µg/kg	U	1460	1460	J180Y2
571263.29	149738.54	118.61	199-N-172	1/19/2009	µg/kg	U	1460	1460	J180Y3
571293.97	149705.43	120.03	199-N-169	2/17/2009	µg/kg	U	1420	1420	J180Y4
571263.29	149738.54	134.46	199-N-172	1/27/2009	µg/kg	B	3760	3760	J180Y5
571293.11	149694.86	131.36	199-N-166	1/28/2009	µg/kg	BM	3630	3630	J180Y6

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571296.75	149698.29	119.97	199-N-167	2/3/2009	µg/kg	U	1460	1460	J180Y7
571296.75	149698.29	118.45	199-N-167	2/3/2009	µg/kg	U	1510	1510	J180Y8
571293.97	149705.43	118.51	199-N-169	2/17/2009	µg/kg	U	1510	1510	J180Y9
571286.06	149713.03	131.28	199-N-168	2/24/2009	µg/kg	B	5310	5310	J18101
571288.51	149714.84	120.06	199-N-170	3/2/2009	µg/kg	U	1460	1460	J18102
571288.51	149714.84	117.93	199-N-170	3/2/2009	µg/kg	B	1860	1860	J18103
571296.70	149740.08	120.23	199-N-171	3/10/2009	µg/kg	BM	1680	1680	J18105
571296.70	149740.08	117.80	199-N-171	3/11/2009	µg/kg	B	1810	1810	J18108
571067.16	149610.92	130.62	Control1 [b]		µg/kg		200	200	
571067.16	149610.92	118.62	Control2 [b]		µg/kg		200	200	
571067.16	149610.92	114.62	Control3 [b]		µg/kg		200	200	
571067.16	149610.92	110.62	Control4 [b]		µg/kg		200	200	
571067.16	149610.92	106.62	Control5 [b]		µg/kg		200	200	
571067.16	149610.92	102.62	Control6 [b]		µg/kg		200	200	
571067.16	149610.92	98.62	Control7 [b]		µg/kg		200	200	
571067.16	149610.92	94.62	Control8 [b]		µg/kg		200	200	
571067.16	149610.92	126.62	Control9 [b]		µg/kg		200	200	
571067.16	149610.92	122.62	Control10 [b]		µg/kg		200	200	
571973.80	149343.18	143.00	Control11 [b]		µg/kg		200	200	
571973.80	149343.18	131.00	Control12 [b]		µg/kg		200	200	
571973.80	149343.18	127.00	Control13 [b]		µg/kg		200	200	
571973.80	149343.18	123.00	Control14 [b]		µg/kg		200	200	
571973.80	149343.18	119.00	Control15 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571973.80	149343.18	115.00	Control16 [b]		µg/kg		200	200	
571973.80	149343.18	111.00	Control17 [b]		µg/kg		200	200	
571973.80	149343.18	107.00	Control18 [b]		µg/kg		200	200	
571973.80	149343.18	139.00	Control19 [b]		µg/kg		200	200	
571973.80	149343.18	135.00	Control20 [b]		µg/kg		200	200	
572029.06	149408.26	143.49	Control21 [b]		µg/kg		200	200	
572029.06	149408.26	131.49	Control22 [b]		µg/kg		200	200	
572029.06	149408.26	127.49	Control23 [b]		µg/kg		200	200	
572029.06	149408.26	123.49	Control24 [b]		µg/kg		200	200	
572029.06	149408.26	119.49	Control25 [b]		µg/kg		200	200	
572029.06	149408.26	115.49	Control26 [b]		µg/kg		200	200	
572029.06	149408.26	111.49	Control27 [b]		µg/kg		200	200	
572029.06	149408.26	107.49	Control28 [b]		µg/kg		200	200	
572029.06	149408.26	139.49	Control29 [b]		µg/kg		200	200	
572029.06	149408.26	135.49	Control30 [b]		µg/kg		200	200	
572090.20	149516.79	147.74	Control31 [b]		µg/kg		200	200	
572090.20	149516.79	135.74	Control32 [b]		µg/kg		200	200	
572090.20	149516.79	131.74	Control33 [b]		µg/kg		200	200	
572090.20	149516.79	127.74	Control34 [b]		µg/kg		200	200	
572090.20	149516.79	123.74	Control35 [b]		µg/kg		200	200	
572090.20	149516.79	119.74	Control36 [b]		µg/kg		200	200	
572090.20	149516.79	115.74	Control37 [b]		µg/kg		200	200	
572090.20	149516.79	111.74	Control38 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
572090.20	149516.79	143.74	Control39 [b]		µg/kg		200	200	
572090.20	149516.79	139.74	Control40 [b]		µg/kg		200	200	
572145.45	149639.14	141.93	Control41 [b]		µg/kg		200	200	
572145.45	149639.14	129.93	Control42 [b]		µg/kg		200	200	
572145.45	149639.14	125.93	Control43 [b]		µg/kg		200	200	
572145.45	149639.14	121.93	Control44 [b]		µg/kg		200	200	
572145.45	149639.14	117.93	Control45 [b]		µg/kg		200	200	
572145.45	149639.14	113.93	Control46 [b]		µg/kg		200	200	
572145.45	149639.14	109.93	Control47 [b]		µg/kg		200	200	
572145.45	149639.14	105.93	Control48 [b]		µg/kg		200	200	
572145.45	149639.14	137.93	Control49 [b]		µg/kg		200	200	
572145.45	149639.14	133.93	Control50 [b]		µg/kg		200	200	
572178.16	149858.84	140.89	Control51 [b]		µg/kg		200	200	
572178.16	149858.84	128.89	Control52 [b]		µg/kg		200	200	
572178.16	149858.84	124.89	Control53 [b]		µg/kg		200	200	
572178.16	149858.84	120.89	Control54 [b]		µg/kg		200	200	
572178.16	149858.84	116.89	Control55 [b]		µg/kg		200	200	
572178.16	149858.84	112.89	Control56 [b]		µg/kg		200	200	
572178.16	149858.84	108.89	Control57 [b]		µg/kg		200	200	
572178.16	149858.84	104.89	Control58 [b]		µg/kg		200	200	
572178.16	149858.84	136.89	Control59 [b]		µg/kg		200	200	
572178.16	149858.84	132.89	Control60 [b]		µg/kg		200	200	
572025.41	150053.87	141.23	Control61 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
572025.41	150053.87	129.23	Control62 [b]		µg/kg		200	200	
572025.41	150053.87	125.23	Control63 [b]		µg/kg		200	200	
572025.41	150053.87	121.23	Control64 [b]		µg/kg		200	200	
572025.41	150053.87	117.23	Control65 [b]		µg/kg		200	200	
572025.41	150053.87	113.23	Control66 [b]		µg/kg		200	200	
572025.41	150053.87	109.23	Control67 [b]		µg/kg		200	200	
572025.41	150053.87	105.23	Control68 [b]		µg/kg		200	200	
572025.41	150053.87	137.23	Control69 [b]		µg/kg		200	200	
572025.41	150053.87	133.23	Control70 [b]		µg/kg		200	200	
571859.33	150146.53	142.31	Control71 [b]		µg/kg		200	200	
571859.33	150146.53	130.31	Control72 [b]		µg/kg		200	200	
571859.33	150146.53	126.31	Control73 [b]		µg/kg		200	200	
571859.33	150146.53	122.31	Control74 [b]		µg/kg		200	200	
571859.33	150146.53	118.31	Control75 [b]		µg/kg		200	200	
571859.33	150146.53	114.31	Control76 [b]		µg/kg		200	200	
571859.33	150146.53	110.31	Control77 [b]		µg/kg		200	200	
571859.33	150146.53	106.31	Control78 [b]		µg/kg		200	200	
571859.33	150146.53	138.31	Control79 [b]		µg/kg		200	200	
571859.33	150146.53	134.31	Control80 [b]		µg/kg		200	200	
571773.19	150195.76	145.06	Control81 [b]		µg/kg		200	200	
571773.19	150195.76	133.06	Control82 [b]		µg/kg		200	200	
571773.19	150195.76	129.06	Control83 [b]		µg/kg		200	200	
571773.19	150195.76	125.06	Control84 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571773.19	150195.76	121.06	Control85 [b]		µg/kg		200	200	
571773.19	150195.76	117.06	Control86 [b]		µg/kg		200	200	
571773.19	150195.76	113.06	Control87 [b]		µg/kg		200	200	
571773.19	150195.76	109.06	Control88 [b]		µg/kg		200	200	
571773.19	150195.76	141.06	Control89 [b]		µg/kg		200	200	
571773.19	150195.76	137.06	Control90 [b]		µg/kg		200	200	
571845.54	149177.44	142.91	Control91 [b]		µg/kg		200	200	
571845.54	149177.44	130.91	Control92 [b]		µg/kg		200	200	
571845.54	149177.44	126.91	Control93 [b]		µg/kg		200	200	
571845.54	149177.44	122.91	Control94 [b]		µg/kg		200	200	
571845.54	149177.44	118.91	Control95 [b]		µg/kg		200	200	
571845.54	149177.44	114.91	Control96 [b]		µg/kg		200	200	
571845.54	149177.44	110.91	Control97 [b]		µg/kg		200	200	
571845.54	149177.44	106.91	Control98 [b]		µg/kg		200	200	
571845.54	149177.44	138.91	Control99 [b]		µg/kg		200	200	
571845.54	149177.44	134.91	Control100 [b]		µg/kg		200	200	
571724.45	150314.21	143.20	Control101 [b]		µg/kg		200	200	
571724.45	150314.21	131.20	Control102 [b]		µg/kg		200	200	
571724.45	150314.21	127.20	Control103 [b]		µg/kg		200	200	
571724.45	150314.21	123.20	Control104 [b]		µg/kg		200	200	
571724.45	150314.21	119.20	Control105 [b]		µg/kg		200	200	
571724.45	150314.21	115.20	Control106 [b]		µg/kg		200	200	
571724.45	150314.21	111.20	Control107 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571724.45	150314.21	107.20	Control108 [b]		µg/kg		200	200	
571724.45	150314.21	139.20	Control109 [b]		µg/kg		200	200	
571724.45	150314.21	135.20	Control110 [b]		µg/kg		200	200	
571025.51	149520.89	139.62	Control111 [b]		µg/kg		200	200	
571025.51	149520.89	127.62	Control112 [b]		µg/kg		200	200	
571025.51	149520.89	123.62	Control113 [b]		µg/kg		200	200	
571025.51	149520.89	119.62	Control114 [b]		µg/kg		200	200	
571025.51	149520.89	115.62	Control115 [b]		µg/kg		200	200	
571025.51	149520.89	111.62	Control116 [b]		µg/kg		200	200	
571025.51	149520.89	107.62	Control117 [b]		µg/kg		200	200	
571025.51	149520.89	103.62	Control118 [b]		µg/kg		200	200	
571025.51	149520.89	135.62	Control119 [b]		µg/kg		200	200	
571025.51	149520.89	131.62	Control120 [b]		µg/kg		200	200	
571637.52	150276.14	139.21	Control121 [b]		µg/kg		200	200	
571637.52	150276.14	127.21	Control122 [b]		µg/kg		200	200	
571637.52	150276.14	123.21	Control123 [b]		µg/kg		200	200	
571637.52	150276.14	119.21	Control124 [b]		µg/kg		200	200	
571637.52	150276.14	115.21	Control125 [b]		µg/kg		200	200	
571637.52	150276.14	111.21	Control126 [b]		µg/kg		200	200	
571637.52	150276.14	107.21	Control127 [b]		µg/kg		200	200	
571637.52	150276.14	103.21	Control128 [b]		µg/kg		200	200	
571637.52	150276.14	135.21	Control129 [b]		µg/kg		200	200	
571637.52	150276.14	131.21	Control130 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571549.36	150187.81	135.42	Control131 [b]		µg/kg		200	200	
571549.36	150187.81	123.42	Control132 [b]		µg/kg		200	200	
571549.36	150187.81	119.42	Control133 [b]		µg/kg		200	200	
571549.36	150187.81	115.42	Control134 [b]		µg/kg		200	200	
571549.36	150187.81	111.42	Control135 [b]		µg/kg		200	200	
571549.36	150187.81	107.42	Control136 [b]		µg/kg		200	200	
571549.36	150187.81	103.42	Control137 [b]		µg/kg		200	200	
571549.36	150187.81	99.42	Control138 [b]		µg/kg		200	200	
571549.36	150187.81	131.42	Control139 [b]		µg/kg		200	200	
571549.36	150187.81	127.42	Control140 [b]		µg/kg		200	200	
572176.40	149939.91	142.07	Control141 [b]		µg/kg		200	200	
572176.40	149939.91	138.07	Control142 [b]		µg/kg		200	200	
572176.40	149939.91	134.07	Control143 [b]		µg/kg		200	200	
572176.40	149939.91	130.07	Control144 [b]		µg/kg		200	200	
572176.40	149939.91	126.07	Control145 [b]		µg/kg		200	200	
572176.40	149939.91	122.07	Control146 [b]		µg/kg		200	200	
572176.40	149939.91	118.07	Control147 [b]		µg/kg		200	200	
572176.40	149939.91	114.07	Control148 [b]		µg/kg		200	200	
572176.40	149939.91	110.07	Control149 [b]		µg/kg		200	200	
572176.40	149939.91	106.07	Control150 [b]		µg/kg		200	200	
571481.66	149098.77	139.95	Control151 [b]		µg/kg		200	200	
571481.66	149098.77	135.95	Control152 [b]		µg/kg		200	200	
571481.66	149098.77	131.95	Control153 [b]		µg/kg		200	200	
571481.66	149098.77	127.95	Control154 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571481.66	149098.77	123.95	Control155 [b]		µg/kg		200	200	
571481.66	149098.77	119.95	Control156 [b]		µg/kg		200	200	
571481.66	149098.77	115.95	Control157 [b]		µg/kg		200	200	
571481.66	149098.77	111.95	Control158 [b]		µg/kg		200	200	
571481.66	149098.77	107.95	Control159 [b]		µg/kg		200	200	
571481.66	149098.77	103.95	Control160 [b]		µg/kg		200	200	
572146.02	149988.37	140.60	Control161 [b]		µg/kg		200	200	
572146.02	149988.37	136.60	Control162 [b]		µg/kg		200	200	
572146.02	149988.37	132.60	Control163 [b]		µg/kg		200	200	
572146.02	149988.37	128.60	Control164 [b]		µg/kg		200	200	
572146.02	149988.37	124.60	Control165 [b]		µg/kg		200	200	
572146.02	149988.37	120.60	Control166 [b]		µg/kg		200	200	
572146.02	149988.37	116.60	Control167 [b]		µg/kg		200	200	
572146.02	149988.37	112.60	Control168 [b]		µg/kg		200	200	
572146.02	149988.37	108.60	Control169 [b]		µg/kg		200	200	
572146.02	149988.37	104.60	Control170 [b]		µg/kg		200	200	
571180.37	149831.65	117.07	Control171 [b]		µg/kg		200	200	
571180.37	149831.65	105.07	Control172 [b]		µg/kg		200	200	
571180.37	149831.65	101.07	Control173 [b]		µg/kg		200	200	
571180.37	149831.65	97.07	Control174 [b]		µg/kg		200	200	
571180.37	149831.65	93.07	Control175 [b]		µg/kg		200	200	
571180.37	149831.65	89.07	Control176 [b]		µg/kg		200	200	
571180.37	149831.65	85.07	Control177 [b]		µg/kg		200	200	
571180.37	149831.65	81.07	Control178 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571180.37	149831.65	113.07	Control179 [b]		µg/kg		200	200	
571180.37	149831.65	109.07	Control180 [b]		µg/kg		200	200	
571146.47	149773.06	117.12	Control181 [b]		µg/kg		200	200	
571146.47	149773.06	105.12	Control182 [b]		µg/kg		200	200	
571146.47	149773.06	101.12	Control183 [b]		µg/kg		200	200	
571146.47	149773.06	97.12	Control184 [b]		µg/kg		200	200	
571146.47	149773.06	93.12	Control185 [b]		µg/kg		200	200	
571146.47	149773.06	89.12	Control186 [b]		µg/kg		200	200	
571146.47	149773.06	85.12	Control187 [b]		µg/kg		200	200	
571146.47	149773.06	81.12	Control188 [b]		µg/kg		200	200	
571146.47	149773.06	113.12	Control189 [b]		µg/kg		200	200	
571146.47	149773.06	109.12	Control190 [b]		µg/kg		200	200	
572175.80	149770.26	143.23	Control191 [b]		µg/kg		200	200	
572175.80	149770.26	139.23	Control192 [b]		µg/kg		200	200	
572175.80	149770.26	135.23	Control193 [b]		µg/kg		200	200	
572175.80	149770.26	131.23	Control194 [b]		µg/kg		200	200	
572175.80	149770.26	127.23	Control195 [b]		µg/kg		200	200	
572175.80	149770.26	123.23	Control196 [b]		µg/kg		200	200	
572175.80	149770.26	119.23	Control197 [b]		µg/kg		200	200	
572175.80	149770.26	115.23	Control198 [b]		µg/kg		200	200	
572175.80	149770.26	111.23	Control199 [b]		µg/kg		200	200	
572175.80	149770.26	107.23	Control200 [b]		µg/kg		200	200	
571936.54	150083.96	141.93	Control201 [b]		µg/kg		200	200	
571936.54	150083.96	129.93	Control202 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571936.54	150083.96	125.93	Control203 [b]		µg/kg		200	200	
571936.54	150083.96	121.93	Control204 [b]		µg/kg		200	200	
571936.54	150083.96	117.93	Control205 [b]		µg/kg		200	200	
571936.54	150083.96	113.93	Control206 [b]		µg/kg		200	200	
571936.54	150083.96	109.93	Control207 [b]		µg/kg		200	200	
571936.54	150083.96	105.93	Control208 [b]		µg/kg		200	200	
571936.54	150083.96	137.93	Control209 [b]		µg/kg		200	200	
571936.54	150083.96	133.93	Control210 [b]		µg/kg		200	200	
571680.86	150305.75	140.66	Control211 [b]		µg/kg		200	200	
571680.86	150305.75	128.66	Control212 [b]		µg/kg		200	200	
571680.86	150305.75	124.66	Control213 [b]		µg/kg		200	200	
571680.86	150305.75	120.66	Control214 [b]		µg/kg		200	200	
571680.86	150305.75	116.66	Control215 [b]		µg/kg		200	200	
571680.86	150305.75	112.66	Control216 [b]		µg/kg		200	200	
571680.86	150305.75	108.66	Control217 [b]		µg/kg		200	200	
571680.86	150305.75	104.66	Control218 [b]		µg/kg		200	200	
571680.86	150305.75	136.66	Control219 [b]		µg/kg		200	200	
571680.86	150305.75	132.66	Control220 [b]		µg/kg		200	200	
570978.88	149444.05	140.29	Control221 [b]		µg/kg		200	200	
570978.88	149444.05	128.29	Control222 [b]		µg/kg		200	200	
570978.88	149444.05	124.29	Control223 [b]		µg/kg		200	200	
570978.88	149444.05	120.29	Control224 [b]		µg/kg		200	200	
570978.88	149444.05	116.29	Control225 [b]		µg/kg		200	200	
570978.88	149444.05	112.29	Control226 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
570978.88	149444.05	108.29	Control227 [b]		µg/kg		200	200	
570978.88	149444.05	104.29	Control228 [b]		µg/kg		200	200	
570978.88	149444.05	136.29	Control229 [b]		µg/kg		200	200	
570978.88	149444.05	132.29	Control230 [b]		µg/kg		200	200	
570949.31	149339.13	140.18	Control231 [b]		µg/kg		200	200	
570949.31	149339.13	128.18	Control232 [b]		µg/kg		200	200	
570949.31	149339.13	124.18	Control233 [b]		µg/kg		200	200	
570949.31	149339.13	120.18	Control234 [b]		µg/kg		200	200	
570949.31	149339.13	116.18	Control235 [b]		µg/kg		200	200	
570949.31	149339.13	112.18	Control236 [b]		µg/kg		200	200	
570949.31	149339.13	108.18	Control237 [b]		µg/kg		200	200	
570949.31	149339.13	104.18	Control238 [b]		µg/kg		200	200	
570949.31	149339.13	136.18	Control239 [b]		µg/kg		200	200	
570949.31	149339.13	132.18	Control240 [b]		µg/kg		200	200	
570958.80	149243.14	140.94	Control241 [b]		µg/kg		200	200	
570958.80	149243.14	128.94	Control242 [b]		µg/kg		200	200	
570958.80	149243.14	124.94	Control243 [b]		µg/kg		200	200	
570958.80	149243.14	120.94	Control244 [b]		µg/kg		200	200	
570958.80	149243.14	116.94	Control245 [b]		µg/kg		200	200	
570958.80	149243.14	112.94	Control246 [b]		µg/kg		200	200	
570958.80	149243.14	108.94	Control247 [b]		µg/kg		200	200	
570958.80	149243.14	104.94	Control248 [b]		µg/kg		200	200	
570958.80	149243.14	136.94	Control249 [b]		µg/kg		200	200	
570958.80	149243.14	132.94	Control250 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
570970.58	149137.31	138.39	Control251 [b]		µg/kg		200	200	
570970.58	149137.31	126.39	Control252 [b]		µg/kg		200	200	
570970.58	149137.31	122.39	Control253 [b]		µg/kg		200	200	
570970.58	149137.31	118.39	Control254 [b]		µg/kg		200	200	
570970.58	149137.31	114.39	Control255 [b]		µg/kg		200	200	
570970.58	149137.31	110.39	Control256 [b]		µg/kg		200	200	
570970.58	149137.31	106.39	Control257 [b]		µg/kg		200	200	
570970.58	149137.31	102.39	Control258 [b]		µg/kg		200	200	
570970.58	149137.31	134.39	Control259 [b]		µg/kg		200	200	
570970.58	149137.31	130.39	Control260 [b]		µg/kg		200	200	
571035.38	149087.41	142.87	Control261 [b]		µg/kg		200	200	
571035.38	149087.41	130.87	Control262 [b]		µg/kg		200	200	
571035.38	149087.41	126.87	Control263 [b]		µg/kg		200	200	
571035.38	149087.41	122.87	Control264 [b]		µg/kg		200	200	
571035.38	149087.41	118.87	Control265 [b]		µg/kg		200	200	
571035.38	149087.41	114.87	Control266 [b]		µg/kg		200	200	
571035.38	149087.41	110.87	Control267 [b]		µg/kg		200	200	
571035.38	149087.41	106.87	Control268 [b]		µg/kg		200	200	
571035.38	149087.41	138.87	Control269 [b]		µg/kg		200	200	
571035.38	149087.41	134.87	Control270 [b]		µg/kg		200	200	
571598.90	149078.78	143.99	Control271 [b]		µg/kg		200	200	
571598.90	149078.78	131.99	Control272 [b]		µg/kg		200	200	
571598.90	149078.78	127.99	Control273 [b]		µg/kg		200	200	
571598.90	149078.78	123.99	Control274 [b]		µg/kg		200	200	

Table B-3. Soil Data for Nitrate

Easting (m)	Northing (m)	Elevation (m)	Well Name	Date	Units	Lab Qualifier	Conc. Value (µg/kg)	Conc. Value Used (µg/kg) [a]	Sample
571598.90	149078.78	119.99	Control275 [b]		µg/kg		200	200	
571598.90	149078.78	115.99	Control276 [b]		µg/kg		200	200	
571598.90	149078.78	111.99	Control277 [b]		µg/kg		200	200	
571598.90	149078.78	107.99	Control278 [b]		µg/kg		200	200	
571598.90	149078.78	139.99	Control279 [b]		µg/kg		200	200	
571598.90	149078.78	135.99	Control280 [b]		µg/kg		200	200	
571332.12	149100.32	144.17	Control281 [b]		µg/kg		200	200	
571332.12	149100.32	132.17	Control282 [b]		µg/kg		200	200	
571332.12	149100.32	128.17	Control283 [b]		µg/kg		200	200	
571332.12	149100.32	124.17	Control284 [b]		µg/kg		200	200	
571332.12	149100.32	120.17	Control285 [b]		µg/kg		200	200	
571332.12	149100.32	116.17	Control286 [b]		µg/kg		200	200	
571332.12	149100.32	112.17	Control287 [b]		µg/kg		200	200	
571332.12	149100.32	108.17	Control288 [b]		µg/kg		200	200	
571332.12	149100.32	140.17	Control289 [b]		µg/kg		200	200	
571332.12	149100.32	136.17	Control290 [b]		µg/kg		200	200	

a) All non-detect samples (Lab Qualifier of "U") had their original value overridden with a new value of 200 µg/kg. The 200 µg/kg was selected based on the smallest recorded value of all sampled data that had no lab qualifier (see sample B14CM3 as an example). The lower-bound of 200 µg/kg was used for all non-detect samples to mitigate the unreasonably high values reported by occasional samples that were marked as "non-detects," helping to establish better consistency with the given data.

b) The well does not exist. This value was created as a means of restricting the interpolant to prevent the model from generating source terms of infinite size.

Attachment C
Groundwater Quality Data used for Developing Initial Plume Conditions in the Saturated Zone

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011	D	27800
571104.79	149500.24	109.66	199-N-372	B35VV3	7/21/2016	D	26100
571193.02	149759.67	110.02	199-N-173	B1YNK5	2/9/2009	D	45600
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011	D	31800
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011	D	31700
571133.65	149571.82	110.63	199-N-371	B35VJ5	7/20/2016	D	27900
571277.91	149677.94	111.03	199-N-377	B366K6	8/18/2016	D	66400
571116.32	149532.29	111.27	199-N-374	B35XD3	7/13/2016	D	22100
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011	D	49600
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011	D	41800
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011	D	34100
571276.14	149441.79	111.78	199-N-373	B35YF5	6/27/2016	D	57500
571137.72	149346.36	111.94	199-N-376	B36695	7/27/2016	D	9740
571104.79	149500.24	112.25	199-N-372	B35VR8	6/15/2016	D	23000
571133.65	149571.82	112.33	199-N-371	B35VF6	6/1/2016	D	24300
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011	D	54900
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011	D	31300
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009	D	52200
571546.33	150237.98	113.48	199-N-185	B2C4D0	3/24/2011	D	30500
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011	D	64200
571137.72	149346.36	114.14	199-N-376	B366C5	8/24/2016	D	16400
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011	D	47800
571277.91	149677.94	114.31	199-N-377	B366L8	8/30/2016	D	62000
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011	D	9830
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011	D	23800

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011	D	44700
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011	D	18800
571116.32	149532.29	115.13	199-N-374	B35XF7	7/28/2016	D	24300
571430.74	149817.82	115.69	199-N-184	B2C428	9/13/2011	D	69500
571269.69	149756.01	115.95	199-N-183	B2C2C3	4/19/2011	D	1510
571277.91	149677.94	116.21	199-N-377	B366K0	8/16/2016	D	66400
571480.87	149715.06	116.27	199-N-186	B2C6R5	8/11/2011	D	149000
571906.94	149581.53	116.30	199-N-188	B2CKX7	9/12/2011	D	23300
571104.79	149500.24	116.36	199-N-372	B35VR1	6/9/2016	D	26600
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009	UD	266
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009	UD	266
571546.33	150237.98	116.55	199-N-185	B2C4C7	3/22/2011	D	20500
571137.72	149346.36	116.57	199-N-376	B36686	7/25/2016	D	15500
571430.74	149817.82	116.91	199-N-184	B2C427	9/8/2011	D	50000
571395.05	149514.01	117.17	199-N-375	B30C11	2/11/2015	D	61500
571276.14	149441.79	117.50	199-N-373	B35YH5	7/21/2016	D	62000
571906.94	149581.53	117.55	199-N-188	B2CKX6	9/7/2011	D	31000
571269.69	149756.01	117.62	199-N-183	B2C2C1	4/18/2011	UD	168
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011	D	226000
571565.90	149897.96	117.63	199-N-187	B2C7X7	8/30/2011	D	89000
571565.90	149897.96	118.34	199-N-187	B36CK0	9/23/2016	D	70800
572090.90	150298.79	118.36	199-N-50	B36CP7	9/19/2016	D	29200
571476.21	149859.43	118.37	199-N-2	B36882	9/9/2016	D	173000
571602.30	150024.96	118.37	199-N-105A	B36867	9/22/2016	D	142000
571737.60	150150.85	118.38	199-N-106A	B328R1	9/14/2015	D	39600
572182.24	149965.26	118.38	199-N-41	B35D99	4/26/2016	D	35400

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571428.71	149819.87	118.39	199-N-182	B36CD7	9/23/2016	D	48700
571424.79	149903.68	118.39	199-N-103A	B36C85	9/28/2016	D	142000
571430.74	149817.82	118.39	199-N-184	B36CF8	9/23/2016	D	57500
571796.10	150496.97	118.40	199-N-51	B32B96	10/1/2015	D	24200
571317.38	149794.61	118.40	199-N-3	B33LY5	2/17/2016	D	88500
571560.08	150122.12	118.40	199-N-76	B35C76	6/24/2016	D	106000
571713.10	150243.37	118.40	199-N-14	B35DH5	6/3/2016	D	48700
571494.16	149798.95	118.40	199-N-67	B36CV0	10/6/2016	D	443000
571523.58	150060.72	118.40	199-N-75	B35DH7	6/3/2016	D	66400
571504.78	150182.74	118.40	199-N-297	B31B78	6/15/2015	D	20100
571508.01	150186.18	118.40	199-N-298	B31671	6/15/2015		14600
571504.04	150186.94	118.40	199-N-360	B36BC7	9/16/2016	D	48700
571364.50	149968.34	118.40	199-N-119	B328R5	9/14/2015	D	21700
571366.18	149970.76	118.40	199-N-120	B32DP2	9/14/2015	D	35000
571368.29	149973.29	118.40	199-N-121	B328T5	9/14/2015	D	62000
571383.91	149997.93	118.40	199-N-248	B31641	7/29/2015	D	6910
571356.74	149966.26	118.40	199-N-350	B35DJ8	7/5/2016	D	8410
571373.17	149987.11	118.40	199-N-351	B35BY0	7/5/2016	D	62000
571466.28	150148.67	118.40	199-N-358	B35C19	7/1/2016	D	18100
571484.18	150168.77	118.40	199-N-359	B35DK1	7/1/2016	D	26600
571522.00	150206.98	118.40	199-N-361	B35DK2	6/21/2016	D	39800
571647.42	150383.53	118.40	199-N-92A	B35C81	6/21/2016	D	32800
571473.67	150151.41	118.40	199-N-99A	B36CY1	9/23/2016	D	66400
571482.06	150184.45	118.40	N116mArray-11A	B35DF8	6/2/2016	D	16400
571337.18	149940.73	118.40	199-N-136	B369N6	9/26/2016	D	15100

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571338.34	149946.51	118.40	199-N-147	B35DJ2	6/23/2016	D	5750
571340.00	149942.84	118.40	199-N-159	B369R0	9/23/2016	D	8410
571546.33	150237.98	118.40	199-N-185	B36CH3	9/16/2016	D	38500
571433.49	150074.61	118.40	199-N-268	B31B77	6/11/2015	D	63700
571436.02	150078.94	118.40	199-N-269	B31652	6/11/2015	D	56700
571457.93	150122.77	118.40	199-N-280	B31B79	6/15/2015	D	33500
571459.57	150127.35	118.40	199-N-281	B31661	6/15/2015	D	23900
571555.86	150247.53	118.40	199-N-315	B31675	6/17/2015	D	40500
571558.24	150251.37	118.40	199-N-316	B31B83	6/17/2015	D	23500
571595.38	150314.30	118.40	199-N-332	B31B82	6/11/2015	D	43200
571597.44	150318.21	118.40	199-N-333	B31687	6/11/2015	D	26100
571623.93	150349.47	118.40	199-N-342	B31691	6/11/2015	D	12600
571627.19	150353.33	118.40	199-N-343	B31B86	6/11/2015	D	16200
571418.57	150055.09	118.40	199-N-354	B35C03	7/1/2016	D	18100
571431.65	150077.00	118.40	199-N-355	B35C07	7/1/2016	D	31400
571446.09	150101.50	118.40	199-N-356	B35C11	7/1/2016	D	12800
571456.35	150125.44	118.40	199-N-357	B35DK0	7/1/2016	D	27000
571538.55	150228.08	118.40	199-N-362	B35C37	6/21/2016	D	43400
571554.65	150249.90	118.40	199-N-363	B35DK3	6/21/2016	D	15100
571569.71	150273.49	118.40	199-N-364	B35C45	6/21/2016	D	20800
571583.77	150296.66	118.40	199-N-365	B35DK4	6/21/2016	D	10600
571594.87	150317.84	118.40	199-N-366	B35C53	6/21/2016	D	6640
571611.38	150340.41	118.40	199-N-367	B35DK5	6/21/2016	D	25200
571326.97	149921.35	118.40	199-N-46	B35DH6	7/1/2016	D	5750
571554.35	150268.72	118.40	C6324	B36D94	8/9/2016	D	1420
571553.39	150267.91	118.40	C6325	B32CW6	8/26/2015	D	53100

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571346.96	149981.81	118.40	C7881	B35DF4	6/10/2016	D	2390
571452.00	150158.66	118.40	N116mArray-10A	B319M8	6/17/2015	D	2910
571632.00	150391.00	118.40	N116mArray-15A	B35DF9	6/10/2016	D	1240
571381.19	150029.75	118.40	N116mArray-8A	B35DH3	6/2/2016	UD	124
571318.48	149928.81	118.41	199-N-122	B35DJ0	6/23/2016	D	6640
571334.10	149957.20	118.41	APT5	B358C6	6/10/2016	D	5750
571325.44	149955.73	118.41	N116mArray-6A	B35DH2	6/2/2016	UD	124
571437.81	150124.98	118.41	N116mArray-9A	B358R9	6/12/2016	D	1060
571298.80	149909.74	118.41	199-N-146	B35BR2	6/23/2016	D	2970
571313.31	149944.56	118.41	NVP2-116.0	B34FP5	3/16/2016	D	2170
571292.50	149925.23	118.41	N116mArray-4A	B36DY7	8/10/2016	D	487
571282.86	149889.37	118.41	199-N-123	B35DJ1	6/19/2016	D	3450
571271.28	149864.74	118.41	199-N-229	B31B75	7/29/2015	D	29200
571267.16	149866.13	118.41	199-N-349	B35BX1	6/30/2016	D	27400
571276.50	149897.48	118.41	APT1	B35DF0	6/12/2016	D	3010
571273.38	149911.86	118.41	N116mArray-3A	B35DH1	5/31/2016	BD	190
571259.69	149888.38	118.41	N116mArray-2A	B35DH0	5/31/2016	UD	124
571248.28	149845.23	118.41	199-N-348	B35DJ7	6/23/2016	D	27000
571296.70	149740.08	118.42	199-N-171	B35LM9	7/24/2016	D	5310
571269.69	149756.01	118.42	199-N-183	B33LX9	2/17/2016	D	4210
571227.53	149855.77	118.42	N116mArray-1A	B319P8	7/15/2015	D	381
571231.25	149822.23	118.42	199-N-347	B35BW2	6/23/2016	D	48700
571261.61	149752.12	118.42	199-N-18	B35LN8	7/24/2016	UD	124
571480.87	149715.06	118.42	199-N-186	B36CH7	9/23/2016	D	62000
571221.25	149799.02	118.43	199-N-211	B31625	7/29/2015	D	2820

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571263.29	149738.54	118.43	199-N-172	B33LX3	2/17/2016	D	753
571218.71	149795.42	118.43	199-N-210	B2W3D5	3/31/2014	D	34700
571375.87	149703.50	118.43	199-N-56	B36CR7	9/19/2016	D	79700
571213.48	149800.76	118.43	199-N-96A	B35DH8	6/23/2016	D	14200
571197.39	149813.90	118.43	C6136	B2XFK4	9/16/2014	DUX	292
571293.97	149705.43	118.44	199-N-169	B33LW7	2/17/2016	D	48700
571203.32	149780.23	118.44	199-N-346	B35DJ5	6/23/2016	D	11500
571296.75	149698.29	118.44	199-N-167	B33LW4	2/17/2016	D	57500
571184.26	149791.93	118.44	C6135	B35LR9	7/25/2016	UD	124
571198.46	149759.46	118.44	199-N-201	B31B53	6/7/2015	D	21400
571193.02	149759.67	118.45	199-N-173	B35DJ3	7/5/2016	D	26600
571196.16	149755.44	118.45	199-N-200	B2WJM1	6/4/2014	D	30900
571169.00	149776.00	118.45	N116mArray-0A	B33M07	2/17/2016	D	841
571277.91	149677.94	118.45	199-N-377	B36MJ4	9/30/2016	D	66400
571133.65	149571.82	118.46	199-N-371	B35VD9	5/26/2016	D	57500
571209.05	149702.45	118.46	199-N-19	B33LY2	2/17/2016	D	66400
571165.27	149734.96	118.46	C6132	B35LR6	7/25/2016	D	36700
571907.62	149708.50	118.48	199-N-32	B36898	9/9/2016	D	48700
571737.41	149653.89	118.49	199-N-34	B368B8	9/9/2016	D	38500
571127.03	149679.68	118.50	C6322	B32CW4	8/25/2015	D	39800
571177.78	149629.41	118.51	199-N-21	B318M3	6/2/2015	D	36800
571413.17	149542.05	118.53	199-N-57	B38673	12/14/2016	D	44300
571561.41	149551.18	118.53	199-N-64	B36CT5	9/19/2016	D	57500
572052.62	149659.79	118.54	199-N-27	B36CN7	9/14/2016	D	26100
571082.03	149621.92	118.55	C7938	B32D03	8/25/2015	D	15500
571081.67	149621.35	118.55	C7939	B36DL1	8/12/2016	D	33600

Table C-1. Groundwater Data for Nitrate (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571133.65	149571.82	118.57	199-N-371	B371N9	9/28/2016	D	31000
571048.23	149577.50	118.59	C7934	B35VL7	7/29/2016	D	27000
571047.74	149576.99	118.59	C7935	B35RH7	7/29/2016	D	28300
571047.63	149576.49	118.59	C7936	B36XV1	10/6/2016	D	27900
571906.94	149581.53	118.59	199-N-188	B36CL1	9/23/2016	D	27000
571023.87	149554.40	118.61	C6319	B326B0	8/25/2015	D	27900
571116.32	149532.29	118.61	199-N-374	B37LC7	12/29/2016	DN	24800
571104.79	149500.24	118.65	199-N-372	B36MH4	9/28/2016	D	26100
571276.14	149441.79	118.67	199-N-373	B36MH7	9/26/2016	D	75300
571955.27	149476.65	118.72	199-N-28	B36887	9/12/2016	D	48700
570886.33	149365.43	118.73	C6265	B36XD9	9/20/2016	D	14600
571137.72	149346.36	118.87	199-N-376	B36MJ2	9/30/2016	D	15500
571302.17	149249.66	118.87	199-N-72	B35DB4	4/26/2016	D	40500
571309.79	149243.05	118.87	199-N-77	B35DC6	4/26/2016	D	28800
571941.88	149156.14	118.98	199-N-74	B368H5	9/12/2016	D	21200
571292.02	149168.99	118.99	199-N-73	B38696	12/12/2016	DZ	18100
571260.96	149154.68	119.04	199-N-165	B35891	6/24/2016	D	26600

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011	D	27800
571104.79	149500.24	109.66	199-N-372	B35VV3	7/21/2016	D	26100
571193.02	149759.67	110.02	199-N-173	B1YNK5	2/9/2009	D	45600
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011	D	31800
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011	D	31700
571133.65	149571.82	110.63	199-N-371	B35VJ5	7/20/2016	D	27900
571277.91	149677.94	111.03	199-N-377	B366K6	8/18/2016	D	66400
571116.32	149532.29	111.27	199-N-374	B35XD3	7/13/2016	D	22100
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011	D	49600
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011	D	41800
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011	D	34100
571276.14	149441.79	111.78	199-N-373	B35YF5	6/27/2016	D	57500
571137.72	149346.36	111.94	199-N-376	B36695	7/27/2016	D	9740
571104.79	149500.24	112.25	199-N-372	B35VR8	6/15/2016	D	23000
571133.65	149571.82	112.33	199-N-371	B35VF6	6/1/2016	D	24300
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011	D	54900
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011	D	31300
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009	D	52200
571546.33	150237.98	113.48	199-N-185	B2C4D0	3/24/2011	D	30500
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011	D	64200
571137.72	149346.36	114.14	199-N-376	B366C5	8/24/2016	D	16400
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011	D	47800
571277.91	149677.94	114.31	199-N-377	B366L8	8/30/2016	D	62000
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011	D	9830
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011	D	23800
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011	D	44700

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011	D	18800
571116.32	149532.29	115.13	199-N-374	B35XF7	7/28/2016	D	24300
571430.74	149817.82	115.69	199-N-184	B2C428	9/13/2011	D	69500
571269.69	149756.01	115.95	199-N-183	B2C2C3	4/19/2011	D	1510
571277.91	149677.94	116.21	199-N-377	B366K0	8/16/2016	D	66400
571116.32	149532.29	116.22	199-N-374	B35XC6	7/11/2016	D	10600
571480.87	149715.06	116.27	199-N-186	B2C6R5	8/11/2011	D	149000
571906.94	149581.53	116.30	199-N-188	B2CKX7	9/12/2011	D	23300
571104.79	149500.24	116.36	199-N-372	B35VR1	6/9/2016	D	26600
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009	UD	266
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009	UD	266
571546.33	150237.98	116.55	199-N-185	B2C4C7	3/22/2011	D	20500
571137.72	149346.36	116.57	199-N-376	B36686	7/25/2016	D	15500
571430.74	149817.82	116.91	199-N-184	B2C427	9/8/2011	D	50000
571395.05	149514.01	117.17	199-N-375	B30C11	2/11/2015	D	61500
571276.14	149441.79	117.50	199-N-373	B35YH5	7/21/2016	D	62000
571906.94	149581.53	117.55	199-N-188	B2CKX6	9/7/2011	D	31000
571269.69	149756.01	117.62	199-N-183	B2C2C1	4/18/2011	UD	168
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011	D	226000
571565.90	149897.96	117.63	199-N-187	B2C7X7	8/30/2011	D	89000
571565.90	149897.96	118.34	199-N-187	B36CK0	9/23/2016	D	70800
572090.90	150298.79	118.36	199-N-50	B36CP7	9/19/2016	D	29200
571476.21	149859.43	118.37	199-N-2	B38627	12/19/2016	D	243000
571602.30	150024.96	118.37	199-N-105A	B36867	9/22/2016	D	142000
571737.60	150150.85	118.38	199-N-106A	B32DP1	9/14/2015	D	42100
572182.24	149965.26	118.38	199-N-41	B37RX0	11/11/2016	D	38100

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571428.71	149819.87	118.39	199-N-182	B36CD7	9/23/2016	D	48700
571424.79	149903.68	118.39	199-N-103A	B36C85	9/28/2016	D	142000
571430.74	149817.82	118.39	199-N-184	B36CF8	9/23/2016	D	57500
571796.10	150496.97	118.40	199-N-51	B32B96	10/1/2015	D	24200
572019.16	149866.09	118.40	199-N-81	B386C7	12/14/2016	D	48700
571317.38	149794.61	118.40	199-N-3	B36893	9/22/2016	D	111000
571560.08	150122.12	118.40	199-N-76	B36CX2	9/22/2016	D	128000
571713.10	150243.37	118.40	199-N-14	B36CC3	9/14/2016	D	48700
571494.16	149798.95	118.40	199-N-67	B36CV1	10/6/2016	D	443000
571523.58	150060.72	118.40	199-N-75	B36CW8	9/19/2016	D	75300
571504.78	150182.74	118.40	199-N-297	B32DT5	9/25/2015	D	43400
571508.01	150186.18	118.40	199-N-298	B329M1	9/25/2015	D	53100
571504.04	150186.94	118.40	199-N-360	B36BC8	9/16/2016	D	48700
571364.50	149968.34	118.40	199-N-119	B328R5	9/14/2015	D	21700
571366.18	149970.76	118.40	199-N-120	B32DP2	9/14/2015	D	35000
571368.29	149973.29	118.40	199-N-121	B328T5	9/14/2015	D	62000
571383.91	149997.93	118.40	199-N-248	B31641	7/29/2015	D	6910
571356.74	149966.26	118.40	199-N-350	B36B72	9/26/2016	D	29200
571373.17	149987.11	118.40	199-N-351	B36B76	9/26/2016	D	115000
571466.28	150148.67	118.40	199-N-358	B36BB7	9/19/2016	D	66400
571484.18	150168.77	118.40	199-N-359	B36BC2	9/19/2016	D	79700
571522.00	150206.98	118.40	199-N-361	B36BD4	9/16/2016	D	57500
571647.42	150383.53	118.40	199-N-92A	B36BJ5	9/23/2016	D	40700
571473.67	150151.41	118.40	199-N-99A	B36CY1	9/23/2016	D	66400
571482.06	150184.45	118.40	N116mArray-11A	B36DW0	8/11/2016	D	43400

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571337.18	149940.73	118.40	199-N-136	B369N6	9/26/2016	D	15100
571338.34	149946.51	118.40	199-N-147	B35DJ2	6/23/2016	D	5750
571340.00	149942.84	118.40	199-N-159	B369R0	9/23/2016	D	8410
571546.33	150237.98	118.40	199-N-185	B36CH3	9/16/2016	D	38500
571433.49	150074.61	118.40	199-N-268	B32DT2	9/28/2015	D	84100
571436.02	150078.94	118.40	199-N-269	B329H9	9/25/2015	D	79700
571457.93	150122.77	118.40	199-N-280	B32DT4	9/25/2015	D	35900
571459.57	150127.35	118.40	199-N-281	B329K7	9/25/2015	D	40700
571555.86	150247.53	118.40	199-N-315	B329N1	9/29/2015	D	57500
571558.24	150251.37	118.40	199-N-316	B32DT6	9/29/2015	D	57500
571595.38	150314.30	118.40	199-N-332	B32DT7	9/18/2015	D	48700
571597.44	150318.21	118.40	199-N-333	B31687	6/11/2015	D	26100
571623.93	150349.47	118.40	199-N-342	B329R8	9/18/2015	D	34100
571627.19	150353.33	118.40	199-N-343	B31B86	6/11/2015	D	16200
571388.72	150009.03	118.40	199-N-352	B36B82	9/23/2016	D	111000
571403.29	150031.62	118.40	199-N-353	B36B86	9/23/2016	D	84100
571418.57	150055.09	118.40	199-N-354	B36B90	9/23/2016	D	75300
571431.65	150077.00	118.40	199-N-355	B36B94	9/19/2016	D	88500
571446.09	150101.50	118.40	199-N-356	B36B98	9/19/2016	D	79700
571456.35	150125.44	118.40	199-N-357	B36BB3	9/19/2016	D	66400
571538.55	150228.08	118.40	199-N-362	B36BD8	9/16/2016	D	53100
571554.65	150249.90	118.40	199-N-363	B36BF3	9/16/2016	D	53100
571569.71	150273.49	118.40	199-N-364	B36BF7	9/16/2016	D	53100
571583.77	150296.66	118.40	199-N-365	B36BH2	9/19/2016	D	53100
571594.87	150317.84	118.40	199-N-366	B36BH6	9/23/2016	D	44300
571611.38	150340.41	118.40	199-N-367	B36BJ1	9/23/2016	D	39000

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571326.97	149921.35	118.40	199-N-46	B36CP3	9/14/2016	D	27400
571554.35	150268.72	118.40	C6324	B35DF3	6/10/2016	D	1680
571553.39	150267.91	118.40	C6325	B32CW6	8/26/2015	D	53100
571346.96	149981.81	118.40	C7881	B36DH4	8/11/2016	D	5750
571452.00	150158.66	118.40	N116mArray-10A	B326T1	9/23/2015		3160
571632.00	150391.00	118.40	N116mArray-15A	B36DW7	8/9/2016	D	1510
571381.19	150029.75	118.40	N116mArray-8A	B36F09	8/11/2016	D	354
571318.48	149928.81	118.41	199-N-122	B369M6	9/23/2016	D	27000
571334.10	149957.20	118.41	APT5	B358C6	6/10/2016	D	5750
571325.44	149955.73	118.41	N116mArray-6A	B36F03	8/10/2016	BD	151
571437.81	150124.98	118.41	N116mArray-9A	B36F13	8/11/2016	D	4430
571298.80	149909.74	118.41	199-N-146	B369P0	9/23/2016	D	10200
571313.31	149944.56	118.41	NVP2-116.0	B36F39	8/10/2016	D	3760
571292.50	149925.23	118.41	N116mArray-4A	B34F29	3/15/2016	D	575
571282.86	149889.37	118.41	199-N-123	B369N2	9/23/2016	D	13700
571271.28	149864.74	118.41	199-N-229	B31B75	7/29/2015	D	29200
571267.16	149866.13	118.41	199-N-349	B36B66	9/23/2016	D	43800
571276.50	149897.48	118.41	APT1	B35DF0	6/12/2016	D	3010
571273.38	149911.86	118.41	N116mArray-3A	B34FP3	3/10/2016	D	974
571259.69	149888.38	118.41	N116mArray-2A	B36DX7	8/10/2016	BD	155

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571296.70	149740.08	118.42	199-N-171	B37T42	12/27/2016	D	10600
571269.69	149756.01	118.42	199-N-183	B37T61	12/28/2016	D	7080
571227.53	149855.77	118.42	N116mArray-1A	B326W0	9/29/2015	B	496
571231.25	149822.23	118.42	199-N-347	B36B56	9/16/2016	D	75300
571261.61	149752.12	118.42	199-N-18	B37T57	12/27/2016	UD	124
571480.87	149715.06	118.42	199-N-186	B36CH7	9/23/2016	D	62000
571221.25	149799.02	118.43	199-N-211	B329C6	9/15/2015	D	5310
571263.29	149738.54	118.43	199-N-172	B35LN2	7/24/2016	D	1420
571218.71	149795.42	118.43	199-N-210	B2W3D5	3/31/2014	D	34700
571375.87	149703.50	118.43	199-N-56	B35LR0	7/24/2016	D	88500
571213.48	149800.76	118.43	199-N-96A	B36BK1	9/22/2016	D	25700
571197.39	149813.90	118.43	C6136	B2XFK4	9/16/2014	DUX	292
571293.97	149705.43	118.44	199-N-169	B37T38	12/27/2016	D	48700
571203.32	149780.23	118.44	199-N-346	B35DJ5	6/23/2016	D	11500
571296.75	149698.29	118.44	199-N-167	B37T31	12/27/2016	D	62000
571184.26	149791.93	118.44	C6135	B37T85	12/12/2016	UDZ	124
571198.46	149759.46	118.44	199-N-201	B32DR7	9/15/2015	D	38500
571193.02	149759.67	118.45	199-N-173	B35LN5	7/24/2016	D	111000
571196.16	149755.44	118.45	199-N-200	B2WJM2	6/4/2014	DX	31000
571169.00	149776.00	118.45	N116mArray-0A	B34FP2	3/10/2016	D	974
571277.91	149677.94	118.45	199-N-377	B36MJ4	9/30/2016	D	66400
571133.65	149571.82	118.46	199-N-371	B35VD9	5/26/2016	D	57500
571209.05	149702.45	118.46	199-N-19	B36CM6	9/14/2016	D	88500
571165.27	149734.96	118.46	C6132	B36D50	8/10/2016	D	62000

Table C-2. Groundwater Data for Nitrate (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571907.62	149708.50	118.48	199-N-32	B38648	12/14/2016	D	53100
571737.41	149653.89	118.49	199-N-34	B388B2	12/21/2016	DZ	39400
571127.03	149679.68	118.50	C6322	B32CW4	8/25/2015	D	39800
571177.78	149629.41	118.51	199-N-21	B329B4	9/8/2015	D	38500
571413.17	149542.05	118.53	199-N-57	B368D2	9/12/2016	D	53100
571561.41	149551.18	118.53	199-N-64	B36CT5	9/19/2016	D	57500
572052.62	149659.79	118.54	199-N-27	B36CN7	9/14/2016	D	26100
571082.03	149621.92	118.55	C7938	B32D03	8/25/2015	D	15500
571081.67	149621.35	118.55	C7939	B36DL1	8/12/2016	D	33600
571133.65	149571.82	118.57	199-N-371	B371N9	9/28/2016	D	31000
571048.23	149577.50	118.59	C7934	B33WW9	1/19/2016	D	34500
571047.74	149576.99	118.59	C7935	B33RD1	1/19/2016	D	32800
571047.63	149576.49	118.59	C7936	B33WX1	1/19/2016	D	30100
571906.94	149581.53	118.59	199-N-188	B36CL1	9/23/2016	D	27000
571023.87	149554.40	118.61	C6319	B326B0	8/25/2015	D	27900
571116.32	149532.29	118.61	199-N-374	B371R0	9/28/2016	D	27000
571104.79	149500.24	118.65	199-N-372	B36MH4	9/28/2016	D	26100
571276.14	149441.79	118.67	199-N-373	B36MH7	9/26/2016	D	75300
571955.27	149476.65	118.72	199-N-28	B38634	12/14/2016	D	62000
570886.33	149365.43	118.73	C6265	B36XD9	9/20/2016	D	14600
571137.72	149346.36	118.87	199-N-376	B36MJ2	9/30/2016	D	15500
571302.17	149249.66	118.87	199-N-72	B35DB5	4/26/2016	D	43800
571309.79	149243.05	118.87	199-N-77	B35DC7	4/26/2016	D	31900
571941.88	149156.14	118.98	199-N-74	B368H5	9/12/2016	D	21200
571292.02	149168.99	118.99	199-N-73	B368H0	9/13/2016	D	35900
571260.96	149154.68	119.04	199-N-165	B36875	9/13/2016	D	32300

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011		3.4	2.97
571104.79	149500.24	109.66	199-N-372	B35VV4	7/21/2016		1.33	1.32
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011		8.8	7.69
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011	U	1.4	1.22
571193.02	149759.67	110.35	199-N-173	B1YK54	2/9/2009		16	13.26
571133.65	149571.82	110.63	199-N-371	B35VJ6	7/20/2016	U	0.802	0.79
571277.91	149677.94	111.03	199-N-377	B366K7	8/18/2016		14.1	13.98
571116.32	149532.29	111.27	199-N-374	B35XD4	7/13/2016	U	0.916	0.91
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011		30.7	27.07
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011	U	1.4	1.22
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011		96	83.68
571104.79	149500.24	112.25	199-N-372	B35VR9	6/15/2016		1.67	1.65
571133.65	149571.82	112.33	199-N-371	B35VF7	6/1/2016	U	1.3	1.28
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011		12.7	11.20
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011		11	9.60
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009		6.1	5.05
571546.33	150237.98	113.48	199-N-185	B2C4D0	3/24/2011		150	130.73
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011		150	132.22
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011		1600	1409.20
571277.91	149677.94	114.31	199-N-377	B366L9	8/30/2016		34.7	34.42
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011		33	28.81
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011		338	297.94
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011		38	33.43
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011		290	252.74
571116.32	149532.29	115.13	199-N-374	B35XF8	7/28/2016		11.3	11.19

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571430.74	149817.82	115.69	199-N-184	B2C429	9/13/2011		17.5	15.43
571565.90	149897.96	115.88	199-N-187	B2C7X9	8/31/2011		8180	7204.02
571269.69	149756.01	115.95	199-N-183	B2C2C2	4/19/2011		55	48.02
571277.91	149677.94	116.21	199-N-377	B366K1	8/16/2016		24.4	24.18
571116.32	149532.29	116.22	199-N-374	B35XC7	7/11/2016		18.4	18.19
571480.87	149715.06	116.27	199-N-186	B2C6R4	8/11/2011		260	228.68
571906.94	149581.53	116.30	199-N-188	B2CKX8	9/12/2011		689	607.27
571104.79	149500.24	116.36	199-N-372	B35VR2	6/9/2016	U	1	0.99
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009		23	19.05
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009		20	16.57
571546.33	150237.98	116.55	199-N-185	B2C542	3/22/2011		394	343.35
571430.74	149817.82	116.91	199-N-184	B2C405	9/8/2011		1190	1048.57
571906.94	149581.53	117.55	199-N-188	B2CKV7	9/7/2011		3320	2925.24
571269.69	149756.01	117.62	199-N-183	B2C290	4/18/2011		154	134.44
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011		1400	1231.29
571565.90	149897.96	117.63	199-N-187	B2C742	8/30/2011		17300	15234.86
571565.90	149897.96	118.34	199-N-187	B36CJ6	9/23/2016		10100	10034.71
572090.90	150298.79	118.36	199-N-50	B36CP6	9/19/2016	U	0.768	0.76
571476.21	149859.43	118.37	199-N-2	B36M17	9/9/2016		261	259.08
571602.30	150024.96	118.37	199-N-105A	B36M55	9/22/2016		1180	1172.29
571737.60	150150.85	118.38	199-N-106A	B36C94	9/23/2016		2010	1997.00
572182.24	149965.26	118.38	199-N-41	B36M27	9/9/2016	U	1.59	1.58
571428.71	149819.87	118.39	199-N-182	B32922	9/8/2015		83.9	81.31
571424.79	149903.68	118.39	199-N-103A	B36C84	9/28/2016		1090	1083.31
571430.74	149817.82	118.39	199-N-184	B36CF7	9/23/2016		212	210.63

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571796.10	150496.97	118.40	199-N-51	B36CP9	9/19/2016	U	1.1	1.09
572019.16	149866.09	118.40	199-N-81	B36M48	9/9/2016		493	489.36
571317.38	149794.61	118.40	199-N-3	B34C55	3/10/2016		731	717.01
571560.08	150122.12	118.40	199-N-76	B35C74	6/24/2016		302	298.27
571713.10	150243.37	118.40	199-N-14	B35BP8	6/3/2016		1360	1341.39
571494.16	149798.95	118.40	199-N-67	B36CT8	10/6/2016		11600	11534.80
571523.58	150060.72	118.40	199-N-75	B35C70	6/3/2016		2140	2110.70
571504.78	150182.74	118.40	199-N-297	B329L4	9/25/2015		1230	1193.41
571508.01	150186.18	118.40	199-N-298	B31670	6/15/2015		926	892.50
571504.04	150186.94	118.40	199-N-360	B36BC5	9/16/2016		928	921.57
571364.50	149968.34	118.40	199-N-119	B328R6	9/14/2015		14.5	14.06
571366.18	149970.76	118.40	199-N-120	B328R9	9/14/2015		1.93	1.87
571368.29	149973.29	118.40	199-N-121	B328T7	9/14/2015	U	1.3	1.26
571383.91	149997.93	118.40	199-N-248	B31640	7/29/2015		3.02	2.92
571356.74	149966.26	118.40	199-N-350	B35BX5	7/5/2016		72.8	71.95
571373.17	149987.11	118.40	199-N-351	B35BX9	7/5/2016		221	218.43
571466.28	150148.67	118.40	199-N-358	B35C18	7/1/2016		535	528.64
571484.18	150168.77	118.40	199-N-359	B35C23	7/1/2016		312	308.29
571522.00	150206.98	118.40	199-N-361	B35C33	6/21/2016		307	303.15
571647.42	150383.53	118.40	199-N-92A	B35C80	6/21/2016	U	1.57	1.55
571473.67	150151.41	118.40	199-N-99A	B32BM5	9/28/2015		1540	1494.47
571482.06	150184.45	118.40	N116mArray-11A	B358L4	6/2/2016		474	467.48
571337.18	149940.73	118.40	199-N-136	B369N5	9/26/2016		14.3	14.21
571338.34	149946.51	118.40	199-N-147	B35BR6	6/23/2016		244	240.97

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571340.00	149942.84	118.40	199-N-159	B369P9	9/23/2016		169	167.91
571546.33	150237.98	118.40	199-N-185	B32939	9/14/2015		6.43	6.23
571433.49	150074.61	118.40	199-N-268	B329H2	9/28/2015		1520	1475.06
571436.02	150078.94	118.40	199-N-269	B31651	6/11/2015		1760	1695.87
571457.93	150122.77	118.40	199-N-280	B329K1	9/25/2015		1860	1804.65
571459.57	150127.35	118.40	199-N-281	B329K9	9/25/2015		2040	1979.30
571555.86	150247.53	118.40	199-N-315	B31674	6/17/2015		673	648.73
571558.24	150251.37	118.40	199-N-316	B329N4	9/29/2015		126	122.28
571595.38	150314.30	118.40	199-N-332	B36B32	9/19/2016		506	502.60
571597.44	150318.21	118.40	199-N-333	B31686	6/11/2015		135	130.08
571623.93	150349.47	118.40	199-N-342	B31690	6/11/2015		5.64	5.43
571627.19	150353.33	118.40	199-N-343	B31694	6/11/2015		0.952	0.92
571388.72	150009.03	118.40	199-N-352	B35BY4	7/1/2016		165	163.04
571403.29	150031.62	118.40	199-N-353	B36B85	9/23/2016		73.7	73.22
571418.57	150055.09	118.40	199-N-354	B36B89	9/23/2016		7.75	7.70
571431.65	150077.00	118.40	199-N-355	B35C06	7/1/2016		766	756.89
571446.09	150101.50	118.40	199-N-356	B35C10	7/1/2016		237	234.18
571456.35	150125.44	118.40	199-N-357	B35C15	7/1/2016		1240	1225.25
571538.55	150228.08	118.40	199-N-362	B35C36	6/21/2016		411	405.85
571554.65	150249.90	118.40	199-N-363	B35C41	6/21/2016		575	567.79
571569.71	150273.49	118.40	199-N-364	B35C44	6/21/2016		265	261.68
571583.77	150296.66	118.40	199-N-365	B35C49	6/21/2016		117	115.53
571594.87	150317.84	118.40	199-N-366	B36BH5	9/23/2016		290	288.12
571611.38	150340.41	118.40	199-N-367	B35C57	6/21/2016		19.4	19.16
571326.97	149921.35	118.40	199-N-46	B35C61	7/1/2016		1190	1175.85

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571555.04	150269.68	118.40	C6323	B326C4	8/26/2015		176	170.43
571554.35	150268.72	118.40	C6324	B36D90	8/9/2016		12.8	12.68
571553.39	150267.91	118.40	C6325	B326D0	8/26/2015	U	0.765	0.74
571346.96	149981.81	118.40	C7881	B358F8	6/10/2016		30.5	30.10
571452.00	150158.66	118.40	N116mArray-10A	B319M7	6/17/2015		97.1	93.60
571632.00	150391.00	118.40	N116mArray-15A	B358M3	6/10/2016	B	0.657	0.65
571381.19	150029.75	118.40	N116mArray-8A	B358R2	6/2/2016		1.79	1.77
571318.48	149928.81	118.41	199-N-122	B35BN8	6/21/2016		585	577.66
571334.10	149957.20	118.41	APT5	B358C5	6/10/2016		216	213.14
571325.44	149955.73	118.41	N116mArray-6A	B358P7	6/2/2016		155	152.87
571437.81	150124.98	118.41	N116mArray-9A	B358R7	6/12/2016		188	185.53
571298.80	149909.74	118.41	199-N-146	B35BR1	6/23/2016		177	174.80
571313.31	149944.56	118.41	NVP2-116.0	B34F58	3/16/2016		1650	1619.05
571292.50	149925.23	118.41	N116mArray-4A	B358P0	6/2/2016		183	180.48
571282.86	149889.37	118.41	199-N-123	B35BP3	6/19/2016		133	131.32
571271.28	149864.74	118.41	199-N-229	B329D1	9/18/2015		28.9	28.03
571267.16	149866.13	118.41	199-N-349	B35BX0	6/30/2016		61.6	60.86
571276.50	149897.48	118.41	APT1	B358B9	6/12/2016		471	464.82
571273.38	149911.86	118.41	N116mArray-3A	B34F24	3/10/2016		139	136.34

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571259.69	149888.38	118.41	N116mArray-2A	B36DX5	8/10/2016		18.3	18.13
571248.28	149845.23	118.41	199-N-348	B35BW6	6/23/2016		57.8	57.08
571269.69	149756.01	118.42	199-N-183	B36CF1	9/30/2016		89.3	88.76
571227.53	149855.77	118.42	N116mArray-1A	B319P7	7/15/2015	U	2.07	2.00
571231.25	149822.23	118.42	199-N-347	B35BW1	6/23/2016		4.99	4.93
571480.87	149715.06	118.42	199-N-186	B36CH6	9/23/2016		193	191.75
571221.25	149799.02	118.43	199-N-211	B329C8	9/15/2015	U	1.95	1.89
571218.71	149795.42	118.43	199-N-210	B2WJN0	6/4/2014		7.22	6.79
571375.87	149703.50	118.43	199-N-56	B32B98	9/14/2015		246	238.51
571213.48	149800.76	118.43	199-N-96A	B35C87	6/23/2016		1.02	1.01
571197.39	149813.90	118.43	C6136	B2XFK3	9/16/2014	U	1.64	1.55
571203.32	149780.23	118.44	199-N-346	B35BV5	6/23/2016		6.02	5.95
571198.46	149759.46	118.44	199-N-201	B32998	9/15/2015		16	15.51
571193.02	149759.67	118.45	199-N-173	B35BT5	7/5/2016		20.9	20.66
571196.16	149755.44	118.45	199-N-200	B2WJL9	6/4/2014		17.5	16.46
571169.00	149776.00	118.45	N116mArray-0A	B34F08	3/10/2016		0.821	0.81
571277.91	149677.94	118.45	199-N-377	B36MJ6	9/30/2016		35.6	35.39
571133.65	149571.82	118.46	199-N-371	B35VF0	5/26/2016	U	0.816	0.80
571209.05	149702.45	118.46	199-N-19	B36CM4	9/14/2016		16.3	16.19
571165.27	149734.96	118.46	C6132	B358C9	5/31/2016		8.73	8.61
571737.41	149653.89	118.49	199-N-34	B36M23	9/9/2016		39.3	39.01
571128.66	149677.99	118.50	C6320	B36D71	8/12/2016		12.4	12.29
571127.03	149679.68	118.50	C6322	B326B8	8/25/2015		3.11	3.01

Table C-3. Groundwater Data for Sr-90 (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571177.78	149629.41	118.51	199-N-21	B36CN0	9/14/2016	U	1.45	1.44
571413.17	149542.05	118.53	199-N-57	B36M33	9/12/2016		5.18	5.14
571561.41	149551.18	118.53	199-N-64	B36CT3	9/19/2016		0.857	0.85
572052.62	149659.79	118.54	199-N-27	B36CN5	9/14/2016		127	126.10
571081.92	149621.34	118.55	C7937	B36DK3	8/12/2016	U	1.3	1.29
571082.03	149621.92	118.55	C7938	B34F04	3/22/2016	U	0.734	0.72
571081.67	149621.35	118.55	C7939	B358K2	6/24/2016	U	1.27	1.25
571133.65	149571.82	118.57	199-N-371	B36MH1	9/28/2016	U	1.76	1.75
571048.23	149577.50	118.59	C7934	B358H5	6/24/2016		295	291.36
571047.74	149576.99	118.59	C7935	B358J0	6/24/2016		253	249.88
571047.63	149576.49	118.59	C7936	B34DY8	3/22/2016		66.5	65.28
571906.94	149581.53	118.59	199-N-188	B36CK9	9/23/2016		1780	1768.48
571778.32	149542.63	118.60	199-N-104A	B36C89	9/29/2016		290	288.24
571026.84	149554.80	118.61	C6318	B36D66	8/12/2016	U	0.996	0.99
571025.32	149554.57	118.61	C6317	B36D62	8/12/2016		3.26	3.23
571023.87	149554.40	118.61	C6319	B36D65	8/12/2016	U	1.87	1.85
571116.32	149532.29	118.61	199-N-374	B37LC6	12/29/2016		8.94	8.94
571104.79	149500.24	118.65	199-N-372	B36MH3	9/28/2016	U	1.85	1.84
571276.14	149441.79	118.67	199-N-373	B371P8	9/26/2016	U	1.81	1.80
571955.27	149476.65	118.72	199-N-28	B36M21	9/12/2016		30.1	29.88
571137.72	149346.36	118.87	199-N-376	B371R5	9/30/2016	U	1.69	1.68
571941.88	149156.14	118.98	199-N-74	B36M40	9/12/2016	U	1.37	1.36
571260.96	149154.68	119.04	199-N-165	B37NH8	12/12/2016	U	1.21	1.21

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011		3.4	2.97
571104.79	149500.24	109.66	199-N-372	B35VV4	7/21/2016		1.33	1.32
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011		8.8	7.69
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011	U	1.4	1.22
571193.02	149759.67	110.35	199-N-173	B1YK54	2/9/2009		16	13.26
571133.65	149571.82	110.63	199-N-371	B35VJ6	7/20/2016	U	0.802	0.79
571277.91	149677.94	111.03	199-N-377	B366K7	8/18/2016		14.1	13.98
571116.32	149532.29	111.27	199-N-374	B35XD4	7/13/2016	U	0.916	0.91
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011		30.7	27.07
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011		96	83.68
571104.79	149500.24	112.25	199-N-372	B35VR9	6/15/2016		1.67	1.65
571133.65	149571.82	112.33	199-N-371	B35VF7	6/1/2016	U	1.3	1.28
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011		12.7	11.20
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011		11	9.60
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009		6.1	5.05
571546.33	150237.98	113.48	199-N-185	B2C4D0	3/24/2011		150	130.73
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011		150	132.22
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011		1600	1409.20
571277.91	149677.94	114.31	199-N-377	B366L9	8/30/2016		34.7	34.42
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011		33	28.81
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011		338	297.94
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011		38	33.43
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011		290	252.74
571116.32	149532.29	115.13	199-N-374	B35XF8	7/28/2016		11.3	11.19

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571430.74	149817.82	115.69	199-N-184	B2C429	9/13/2011		17.5	15.43
571565.90	149897.96	115.88	199-N-187	B2C7X9	8/31/2011		8180	7204.02
571269.69	149756.01	115.95	199-N-183	B2C2C2	4/19/2011		55	48.02
571277.91	149677.94	116.21	199-N-377	B366K1	8/16/2016		24.4	24.18
571116.32	149532.29	116.22	199-N-374	B35XC7	7/11/2016		18.4	18.19
571480.87	149715.06	116.27	199-N-186	B2C6R4	8/11/2011		260	228.68
571906.94	149581.53	116.30	199-N-188	B2CKX8	9/12/2011		689	607.27
571104.79	149500.24	116.36	199-N-372	B35VR2	6/9/2016	U	1	0.99
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009		23	19.05
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009		20	16.57
571546.33	150237.98	116.55	199-N-185	B2C542	3/22/2011		394	343.35
571430.74	149817.82	116.91	199-N-184	B2C405	9/8/2011		1190	1048.57
571906.94	149581.53	117.55	199-N-188	B2CKV7	9/7/2011		3320	2925.24
571269.69	149756.01	117.62	199-N-183	B2C290	4/18/2011		154	134.44
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011		1400	1231.29
571565.90	149897.96	117.63	199-N-187	B2C742	8/30/2011		17300	15234.86
571565.90	149897.96	118.34	199-N-187	B36CJ6	9/23/2016		10100	10034.71
572090.90	150298.79	118.36	199-N-50	B36CP6	9/19/2016	U	0.768	0.76
571476.21	149859.43	118.37	199-N-2	B36M17	9/9/2016		261	259.08
571602.30	150024.96	118.37	199-N-105A	B36M55	9/22/2016		1180	1172.29
571737.60	150150.85	118.38	199-N-106A	B36C94	9/23/2016		2010	1997.00
572182.24	149965.26	118.38	199-N-41	B36M27	9/9/2016	U	1.59	1.58
571428.71	149819.87	118.39	199-N-182	B32922	9/8/2015		83.9	81.31
571424.79	149903.68	118.39	199-N-103A	B36C84	9/28/2016		1090	1083.31
571430.74	149817.82	118.39	199-N-184	B36CF7	9/23/2016		212	210.63

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571796.10	150496.97	118.40	199-N-51	B36CP9	9/19/2016	U	1.1	1.09
572019.16	149866.09	118.40	199-N-81	B36M48	9/9/2016		493	489.36
571317.38	149794.61	118.40	199-N-3	B36M18	9/22/2016		768	762.99
571560.08	150122.12	118.40	199-N-76	B35C74	6/24/2016		302	298.27
571713.10	150243.37	118.40	199-N-14	B35BP8	6/3/2016		1360	1341.39
571494.16	149798.95	118.40	199-N-67	B35C65	6/19/2016		12600	12440.54
571523.58	150060.72	118.40	199-N-75	B36CW6	9/19/2016		3050	3029.48
571504.78	150182.74	118.40	199-N-297	B329L4	9/25/2015		1230	1193.41
571508.01	150186.18	118.40	199-N-298	B329M0	9/25/2015		1530	1484.48
571504.04	150186.94	118.40	199-N-360	B36BC6	9/16/2016		1140	1132.10
571364.50	149968.34	118.40	199-N-119	B328R6	9/14/2015		14.5	14.06
571366.18	149970.76	118.40	199-N-120	B328R9	9/14/2015		1.93	1.87
571368.29	149973.29	118.40	199-N-121	B328T7	9/14/2015	U	1.3	1.26
571383.91	149997.93	118.40	199-N-248	B329F7	9/22/2015		4.23	4.10
571356.74	149966.26	118.40	199-N-350	B36B70	9/26/2016		82.9	82.38
571373.17	149987.11	118.40	199-N-351	B36B75	9/26/2016		555	551.52
571466.28	150148.67	118.40	199-N-358	B36BB6	9/19/2016		1000	993.28
571484.18	150168.77	118.40	199-N-359	B36BC1	9/19/2016		324	321.82
571522.00	150206.98	118.40	199-N-361	B35C33	6/21/2016		307	303.15
571647.42	150383.53	118.40	199-N-92A	B36BJ4	9/23/2016	U	1.37	1.36
571473.67	150151.41	118.40	199-N-99A	B32BM5	9/28/2015		1540	1494.47
571482.06	150184.45	118.40	N116mArray-11A	B36DV6	8/11/2016		739	732.16
571337.18	149940.73	118.40	199-N-136	B369N5	9/26/2016		14.3	14.21
571338.34	149946.51	118.40	199-N-147	B35BR6	6/23/2016		244	240.97

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571340.00	149942.84	118.40	199-N-159	B369P9	9/23/2016		169	167.91
571546.33	150237.98	118.40	199-N-185	B32939	9/14/2015		6.43	6.23
571433.49	150074.61	118.40	199-N-268	B31645	6/11/2015		1720	1657.32
571436.02	150078.94	118.40	199-N-269	B329J1	9/25/2015		2450	2377.09
571457.93	150122.77	118.40	199-N-280	B329K1	9/25/2015		1860	1804.65
571459.57	150127.35	118.40	199-N-281	B329L0	9/25/2015		2180	2115.14
571555.86	150247.53	118.40	199-N-315	B329N0	9/29/2015		933	905.47
571558.24	150251.37	118.40	199-N-316	B329N4	9/29/2015		126	122.28
571595.38	150314.30	118.40	199-N-332	B36B32	9/19/2016		506	502.60
571597.44	150318.21	118.40	199-N-333	B31686	6/11/2015		135	130.08
571623.93	150349.47	118.40	199-N-342	B329R7	9/18/2015		7.94	7.70
571627.19	150353.33	118.40	199-N-343	B31694	6/11/2015		0.952	0.92
571388.72	150009.03	118.40	199-N-352	B36B80	9/23/2016		1200	1192.25
571403.29	150031.62	118.40	199-N-353	B36B85	9/23/2016		73.7	73.22
571418.57	150055.09	118.40	199-N-354	B36B89	9/23/2016		7.75	7.70
571431.65	150077.00	118.40	199-N-355	B36B93	9/19/2016		1310	1301.20
571446.09	150101.50	118.40	199-N-356	B36B97	9/19/2016		729	724.10
571456.35	150125.44	118.40	199-N-357	B36BB2	9/19/2016		2610	2592.46
571538.55	150228.08	118.40	199-N-362	B36BD7	9/16/2016		487	483.63
571554.65	150249.90	118.40	199-N-363	B35C41	6/21/2016		575	567.79
571569.71	150273.49	118.40	199-N-364	B36BF6	9/16/2016		563	559.11
571583.77	150296.66	118.40	199-N-365	B36BH1	9/19/2016		308	305.93
571594.87	150317.84	118.40	199-N-366	B36BH5	9/23/2016		290	288.12
571611.38	150340.41	118.40	199-N-367	B35C57	6/21/2016		19.4	19.16
571326.97	149921.35	118.40	199-N-46	B35C61	7/1/2016		1190	1175.85

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571555.04	150269.68	118.40	C6323	B326C4	8/26/2015		176	170.43
571554.35	150268.72	118.40	C6324	B36D91	8/9/2016		14	13.87
571553.39	150267.91	118.40	C6325	B326D0	8/26/2015	U	0.765	0.74
571346.96	149981.81	118.40	C7881	B36DH2	8/11/2016		42	41.61
571452.00	150158.66	118.40	N116mArray-10A	B326T0	9/23/2015		100	97.01
571632.00	150391.00	118.40	N116mArray-15A	B358M3	6/10/2016	B	0.657	0.65
571381.19	150029.75	118.40	N116mArray-8A	B358R2	6/2/2016		1.79	1.77
571318.48	149928.81	118.41	199-N-122	B369M4	9/23/2016		1580	1569.78
571334.10	149957.20	118.41	APT5	B358C5	6/10/2016		216	213.14
571325.44	149955.73	118.41	N116mArray-6A	B358P7	6/2/2016		155	152.87
571437.81	150124.98	118.41	N116mArray-9A	B36F12	8/11/2016		255	252.64
571298.80	149909.74	118.41	199-N-146	B369N9	9/23/2016		286	284.15
571313.31	149944.56	118.41	NVP2-116.0	B36F35	8/10/2016		2070	2050.73
571292.50	149925.23	118.41	N116mArray-4A	B34F28	3/15/2016		200	196.23
571282.86	149889.37	118.41	199-N-123	B35BP3	6/19/2016		133	131.32
571271.28	149864.74	118.41	199-N-229	B31628	7/29/2015		81.3	78.58
571267.16	149866.13	118.41	199-N-349	B36B65	9/23/2016		118	117.24
571276.50	149897.48	118.41	APT1	B36D24	8/10/2016		480	475.53
571273.38	149911.86	118.41	N116mArray-3A	B358N6	5/31/2016		144	142.00

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571259.69	149888.38	118.41	N116mArray-2A	B358N1	5/31/2016		18.5	18.24
571248.28	149845.23	118.41	199-N-348	B36B60	9/16/2016		93.2	92.56
571269.69	149756.01	118.42	199-N-183	B36CF1	9/30/2016		89.3	88.76
571227.53	149855.77	118.42	N116mArray-1A	B319P7	7/15/2015	U	2.07	2.00
571231.25	149822.23	118.42	199-N-347	B35BW1	6/23/2016		4.99	4.93
571480.87	149715.06	118.42	199-N-186	B36CH6	9/23/2016		193	191.75
571221.25	149799.02	118.43	199-N-211	B329C8	9/15/2015	U	1.95	1.89
571218.71	149795.42	118.43	199-N-210	B2W3D4	3/31/2014		13	12.17
571375.87	149703.50	118.43	199-N-56	B32B98	9/14/2015		246	238.51
571213.48	149800.76	118.43	199-N-96A	B36BJ9	9/22/2016		7.15	7.10
571197.39	149813.90	118.43	C6136	B2XFK3	9/16/2014	U	1.64	1.55
571203.32	149780.23	118.44	199-N-346	B35BV5	6/23/2016		6.02	5.95
571198.46	149759.46	118.44	199-N-201	B31616	6/7/2015		19.9	19.17
571193.02	149759.67	118.45	199-N-173	B369R4	9/16/2016		23.6	23.44
571196.16	149755.44	118.45	199-N-200	B2WJM0	6/4/2014		23.1	21.73
571169.00	149776.00	118.45	N116mArray-0A	B34F08	3/10/2016		0.821	0.81
571277.91	149677.94	118.45	199-N-377	B36MJ6	9/30/2016		35.6	35.39
571133.65	149571.82	118.46	199-N-371	B35VF0	5/26/2016	U	0.816	0.80
571209.05	149702.45	118.46	199-N-19	B36CM4	9/14/2016		16.3	16.19
571165.27	149734.96	118.46	C6132	B36D49	8/10/2016		17.3	17.14
571737.41	149653.89	118.49	199-N-34	B36M23	9/9/2016		39.3	39.01
571128.66	149677.99	118.50	C6320	B36D71	8/12/2016		12.4	12.29
571127.03	149679.68	118.50	C6322	B326B8	8/25/2015		3.11	3.01

Table C-4. Groundwater Data for Sr-90 (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571177.78	149629.41	118.51	199-N-21	B36CN0	9/14/2016	U	1.45	1.44
571413.17	149542.05	118.53	199-N-57	B36M33	9/12/2016		5.18	5.14
571561.41	149551.18	118.53	199-N-64	B36CT3	9/19/2016		0.857	0.85
572052.62	149659.79	118.54	199-N-27	B36CN5	9/14/2016		127	126.10
571081.92	149621.34	118.55	C7937	B34F02	3/22/2016	U	1.11	1.09
571082.03	149621.92	118.55	C7938	B358K0	6/24/2016	B	1.08	1.07
571081.67	149621.35	118.55	C7939	B34F06	3/22/2016	U	1.21	1.19
571133.65	149571.82	118.57	199-N-371	B37L94	12/28/2016	U	1.29	1.29
571048.23	149577.50	118.59	C7934	B345B4	2/23/2016		361	353.72
571047.74	149576.99	118.59	C7935	B36XT7	10/6/2016		320	318.20
571047.63	149576.49	118.59	C7936	B33RD5	1/19/2016		85.6	83.68
571906.94	149581.53	118.59	199-N-188	B36CK9	9/23/2016		1780	1768.48
571778.32	149542.63	118.60	199-N-104A	B36C89	9/29/2016		290	288.24
571026.84	149554.80	118.61	C6318	B36D66	8/12/2016	U	0.996	0.99
571025.32	149554.57	118.61	C6317	B36D62	8/12/2016		3.26	3.23
571023.87	149554.40	118.61	C6319	B36D65	8/12/2016	U	1.87	1.85
571116.32	149532.29	118.61	199-N-374	B36MJ0	9/28/2016		14.4	14.31
571104.79	149500.24	118.65	199-N-372	B36MH3	9/28/2016	U	1.85	1.84
571276.14	149441.79	118.67	199-N-373	B37LB8	12/29/2016	U	1.79	1.79
571955.27	149476.65	118.72	199-N-28	B36M21	9/12/2016		30.1	29.88
571137.72	149346.36	118.87	199-N-376	B38236	12/28/2016		2.05	2.05
571941.88	149156.14	118.98	199-N-74	B36M40	9/12/2016	U	1.37	1.36
571260.96	149154.68	119.04	199-N-165	B37NH8	12/12/2016	U	1.21	1.21

Table C-5. Groundwater Data for TPH-Diesel (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011	U	70
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011	U	70
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011	U	80
571193.02	149759.67	110.35	199-N-173	B1YK54	2/9/2009	U	70
571277.91	149677.94	111.03	199-N-377	B366K4	8/18/2016	TU	50
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011	U	70
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011	X	330
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011	U	70
571276.14	149441.79	111.78	199-N-373	B35YF3	6/27/2016	U	47.6
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011	U	80
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011		270
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009	U	70
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011	U	70
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011	U	70
571277.91	149677.94	114.31	199-N-377	B366L6	8/30/2016	TU	47.6
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011	U	70
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011	U	80
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011		170
571340.00	149942.84	115.03	199-N-159	B1VDY0	4/30/2008	U	82
571277.91	149677.94	116.21	199-N-377	B366J8	8/16/2016	TU	47.6
571480.87	149715.06	116.27	199-N-186	B2C6R4	8/11/2011	U	80
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009		4300
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009		3900
571546.33	150237.98	116.55	199-N-185	B2C4C7	3/22/2011	U	70
571430.74	149817.82	116.91	199-N-184	B2C427	9/8/2011	U	80

Table C-5. Groundwater Data for TPH-Diesel (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571395.05	149514.01	117.17	199-N-375	B30C05	2/11/2015	U	50
571209.05	149702.45	117.27	199-N-19	B091F1	8/12/1993	U	2000
571906.94	149581.53	117.55	199-N-188	B2CKX6	9/7/2011	U	70
571269.69	149756.01	117.62	199-N-183	B2C2C1	4/18/2011	D	6500
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011	U	80
571565.90	149897.96	117.63	199-N-187	B2C7X7	8/30/2011	U	70
571340.00	149942.84	118.23	199-N-159	B1VDY2	4/30/2008	U	71
571565.90	149897.96	118.34	199-N-187	B32960	9/17/2015	U	16
571317.38	149794.61	118.40	199-N-3	B35LP6	7/24/2016	TU	47.2
571383.91	149997.93	118.40	199-N-248	B31640	7/29/2015	JT	119
571356.74	149966.26	118.40	199-N-350	B35BX6	7/5/2016	U	17
571373.17	149987.11	118.40	199-N-351	B35BX9	7/5/2016	TU	48.1
571473.67	150151.41	118.40	199-N-99A	B2WTC9	6/3/2014	U	17
571482.06	150184.45	118.40	N116mArray-11A	B358L5	6/2/2016	U	16
571337.18	149940.73	118.40	199-N-136	B369N5	9/26/2016	TU	48.1
571338.34	149946.51	118.40	199-N-147	B35BR7	6/23/2016	U	17
571340.00	149942.84	118.40	199-N-159	B369P9	9/23/2016	TU	47.6
571546.33	150237.98	118.40	199-N-185	B2WT06	6/3/2014	U	48.5
571388.72	150009.03	118.40	199-N-352	B35BY5	7/1/2016	U	17
571403.29	150031.62	118.40	199-N-353	B36B85	9/23/2016	TU	47.6
571554.35	150268.72	118.40	C6324	B358F3	6/10/2016	U	17
571346.96	149981.81	118.40	C7881	B358F9	6/10/2016	U	17
571452.00	150158.66	118.40	N116mArray-10A	B326T0	9/23/2015	TU	48.1
571540.69	150264.02	118.40	N116mArray-13A	B319N8	6/15/2015	U	48.5

Table C-5. Groundwater Data for TPH-Diesel (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571632.00	150391.00	118.40	N116mArray-15A	B358M4	6/10/2016	U	17
571381.19	150029.75	118.40	N116mArray-8A	B358R3	6/2/2016	U	16
571318.48	149928.81	118.41	199-N-122	B35BN9	6/23/2016	U	16
571334.10	149957.20	118.41	APT5	B358C5	6/10/2016	BJT	83
571325.44	149955.73	118.41	N116mArray-6A	B358P8	6/2/2016	J	240
571437.81	150124.98	118.41	N116mArray-9A	B358R7	6/12/2016	BJT	144
571298.80	149909.74	118.41	199-N-146	B35BR1	6/23/2016	TU	47.6
571313.31	149944.56	118.41	NVP2-116.0	B358W4	6/12/2016	U	17
571292.50	149925.23	118.41	N116mArray-4A	B36DY6	8/10/2016	TU	50
571282.86	149889.37	118.41	199-N-123	B35BP4	6/19/2016	UN	16
571271.28	149864.74	118.41	199-N-229	B31629	7/29/2015	UO	16
571267.16	149866.13	118.41	199-N-349	B36B65	9/23/2016	TU	47.6
571276.50	149897.48	118.41	APT1	B358C1	6/12/2016	U	17
571273.38	149911.86	118.41	N116mArray-3A	B358N7	5/31/2016	U	18
571259.69	149888.38	118.41	N116mArray-2A	B358N2	5/31/2016	U	17
571248.28	149845.23	118.41	199-N-348	B35BW7	6/23/2016	U	16
571296.70	149740.08	118.42	199-N-171	B35LM8	7/24/2016	T	4640
571269.69	149756.01	118.42	199-N-183	B37T59	12/28/2016		2860
571227.53	149855.77	118.42	N116mArray-1A	B358M8	6/12/2016	BJT	116
571231.25	149822.23	118.42	199-N-347	B35BW1	6/23/2016	UX	48.1

Table C-5. Groundwater Data for TPH-Diesel (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571261.61	149752.12	118.42	199-N-18	B35LN7	7/24/2016	DT	17200
571480.87	149715.06	118.42	199-N-186	B32949	9/16/2015	U	50
571221.25	149799.02	118.43	199-N-211	B31624	7/29/2015	X	590
571263.29	149738.54	118.43	199-N-172	B33LX2	2/17/2016	D	4440
571218.71	149795.42	118.43	199-N-210	B2W3D4	3/31/2014	U	70
571375.87	149703.50	118.43	199-N-56	B33LY7	2/17/2016	U	47.6
571213.48	149800.76	118.43	199-N-96A	B35LR2	7/27/2016	JTX	62.6
571197.39	149813.90	118.43	C6136	B2XFK3	9/16/2014	T	287
571293.97	149705.43	118.44	199-N-169	B33LW6	2/17/2016		373
571203.32	149780.23	118.44	199-N-346	B35BV7	6/23/2016		3500
571296.75	149698.29	118.44	199-N-167	B35LM0	7/24/2016	T	234
571184.26	149791.93	118.44	C6135	B35LR8	7/25/2016	T	238
571198.46	149759.46	118.44	199-N-201	B31617	6/7/2015	U	17
571193.02	149759.67	118.45	199-N-173	B37T51	12/27/2016		1790
571196.16	149755.44	118.45	199-N-200	B2WJL9	6/4/2014		852
571169.00	149776.00	118.45	N116mArray-0A	B33M06	2/17/2016	J	125
571277.91	149677.94	118.45	199-N-377	B36MJ5	9/30/2016	U	16
571209.05	149702.45	118.46	199-N-19	B37T63	12/27/2016		206
571165.27	149734.96	118.46	C6132	B36D49	8/10/2016	JT	69.4
571127.03	149679.68	118.50	C6322	B326B9	8/25/2015	U	17
571177.78	149629.41	118.51	199-N-21	B329B6	9/8/2015	U	47.2
571413.17	149542.05	118.53	199-N-57	B32BB7	9/16/2015	U	50
571561.41	149551.18	118.53	199-N-64	B32BC4	9/1/2015	U	16
571081.92	149621.34	118.55	C7937	B326P7	8/25/2015	U	48.5
571082.03	149621.92	118.55	C7938	B326R1	8/25/2015	U	17

Table C-5. Groundwater Data for TPH-Diesel (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571081.67	149621.35	118.55	C7939	B326R3	8/25/2015	U	50
571133.65	149571.82	118.57	199-N-371	B36MH1	9/28/2016	TU	47.6
571048.23	149577.50	118.59	C7934	B326N8	9/15/2015	U	17
571047.74	149576.99	118.59	C7935	B326P1	9/15/2015	U	50
571047.63	149576.49	118.59	C7936	B326P5	9/15/2015	U	17
571906.94	149581.53	118.59	199-N-188	B32971	9/8/2015	U	47.2
571023.87	149554.40	118.61	C6319	B32699	8/25/2015	U	48.5
571116.32	149532.29	118.61	199-N-374	B371P9	9/28/2016	TU	47.6
571104.79	149500.24	118.65	199-N-372	B36MH3	9/28/2016	TU	47.6
571276.14	149441.79	118.67	199-N-373	B36MH8	9/26/2016	TU	48.1
571137.72	149346.36	118.87	199-N-376	B371R3	9/30/2016	U	16

Table C-6. Groundwater Data for TPH-Diesel (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571269.70	149756.00	110.06	199-N-183	B2C2C7	4/25/2011	U	70
571546.30	150238.00	110.18	199-N-185	B2C4D2	3/28/2011	U	80
571193.00	149759.70	110.35	199-N-173	B1YK54	2/9/2009	U	70
571277.90	149677.90	111.03	199-N-377	B366K4	8/18/2016	TU	50
571430.70	149817.80	111.27	199-N-184	B2C432	9/16/2011	U	70
571269.70	149756.00	111.56	199-N-183	B2C2C6	4/20/2011	X	330
571546.30	150238.00	111.71	199-N-185	B2C4D1	3/25/2011	U	70
571276.10	149441.80	111.78	199-N-373	B35YF3	6/27/2016	U	47.6
571430.70	149817.80	112.79	199-N-184	B2C431	9/15/2011	U	80
571269.70	149756.00	112.99	199-N-183	B2C2C5	4/20/2011		270
571193.00	149759.70	113.40	199-N-173	B1YK50	2/4/2009	U	70
571430.70	149817.80	114.04	199-N-184	B2C430	9/14/2011	U	70
571565.90	149898.00	114.17	199-N-187	B2C7Y0	9/1/2011	U	70
571277.90	149677.90	114.31	199-N-377	B366L6	8/30/2016	TU	47.6
571906.90	149581.50	114.56	199-N-188	B2CKX9	9/14/2011	U	70
571480.90	149715.10	114.72	199-N-186	B2C6R6	8/16/2011	U	80
571546.30	150238.00	114.76	199-N-185	B2C4C8	3/23/2011		170
571340.00	149942.80	115.03	199-N-159	B1VDY0	4/30/2008	U	82
571277.90	149677.90	116.21	199-N-377	B366J8	8/16/2016	TU	47.6
571480.90	149715.10	116.27	199-N-186	B2C6R4	8/11/2011	U	80
571193.00	149759.70	116.45	199-N-173	B1YK46	2/3/2009		4300
571193.00	149759.70	116.53	199-N-173	B1YK44	2/3/2009		3900
571546.30	150238.00	116.55	199-N-185	B2C4C7	3/22/2011	U	70
571430.70	149817.80	116.91	199-N-184	B2C427	9/8/2011	U	80
571395.10	149514.00	117.17	199-N-375	B30C05	2/11/2015	U	50
571209.10	149702.40	117.27	199-N-19	B091F1	8/12/1993	U	2000

Table C-6. Groundwater Data for TPH-Diesel (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571906.90	149581.50	117.55	199-N-188	B2CKX6	9/7/2011	U	70
571269.70	149756.00	117.62	199-N-183	B2C2C1	4/18/2011	D	6500
571480.90	149715.10	117.62	199-N-186	B2C6R3	8/10/2011	U	80
571565.90	149898.00	117.63	199-N-187	B2C7X7	8/30/2011	U	70
571340.00	149942.80	118.23	199-N-159	B1VDY2	4/30/2008	U	71
571565.90	149898.00	118.34	199-N-187	B32961	9/17/2015	U	16
571317.40	149794.60	118.40	199-N-3	B33LY4	2/17/2016	U	47.6
571383.90	149997.90	118.40	199-N-248	B31640	7/29/2015	JT	119
571356.70	149966.30	118.40	199-N-350	B35BX6	7/5/2016	U	17
571373.20	149987.10	118.40	199-N-351	B35BX9	7/5/2016	TU	48.1
571473.70	150151.40	118.40	199-N-99A	B2W976	3/26/2014	U	70
571482.10	150184.50	118.40	N116mArray-11A	B358L5	6/2/2016	U	16
571337.20	149940.70	118.40	199-N-136	B369N5	9/26/2016	TU	48.1
571338.30	149946.50	118.40	199-N-147	B35BR7	6/23/2016	U	17
571340.00	149942.80	118.40	199-N-159	B369P9	9/23/2016	TU	47.6
571546.30	150238.00	118.40	199-N-185	B2W980	3/26/2014	U	70
571388.70	150009.00	118.40	199-N-352	B35BY5	7/1/2016	U	17
571403.30	150031.60	118.40	199-N-353	B35BY8	7/1/2016	TU	50
571554.40	150268.70	118.40	C6324	B358F3	6/10/2016	U	17
571347.00	149981.80	118.40	C7881	B358F9	6/10/2016	U	17
571452.00	150158.70	118.40	N116mArray-10A	B326T0	9/23/2015	TU	48.1
571540.70	150264.00	118.40	N116mArray-13A	B326V1	8/26/2015	J	65.5
571632.00	150391.00	118.40	N116mArray-15A	B358M4	6/10/2016	U	17

Table C-6. Groundwater Data for TPH-Diesel (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571381.20	150029.80	118.40	N116mArray-8A	B358R3	6/2/2016	U	16
571318.50	149928.80	118.41	199-N-122	B369M5	9/23/2016	U	16
571334.10	149957.20	118.41	APT5	B358C5	6/10/2016	BJT	83
571325.40	149955.70	118.41	N116mArray-6A	B358P8	6/2/2016	J	240
571437.80	150125.00	118.41	N116mArray-9A	B358R7	6/12/2016	BJT	144
571298.80	149909.70	118.41	199-N-146	B369N9	9/23/2016	TU	47.6
571313.30	149944.60	118.41	NVP2-116.0	B358W5	6/12/2016	U	17
571292.50	149925.20	118.41	N116mArray-4A	B36DY6	8/10/2016	TU	50
571282.90	149889.40	118.41	199-N-123	B369N1	9/23/2016	U	16
571271.30	149864.70	118.41	199-N-229	B329D3	9/18/2015	U	17
571267.20	149866.10	118.41	199-N-349	B35BX0	6/30/2016	U	50
571276.50	149897.50	118.41	APT1	B36D25	8/10/2016	U	17
571273.40	149911.90	118.41	N116mArray-3A	B358N7	5/31/2016	U	18
571259.70	149888.40	118.41	N116mArray-2A	B36DX6	8/10/2016	U	17
571248.30	149845.20	118.41	199-N-348	B36B61	9/16/2016	UN	16
571296.70	149740.10	118.42	199-N-171	B33LW9	2/17/2016	D	11900
571269.70	149756.00	118.42	199-N-183	B36CF2	9/30/2016		3300
571227.50	149855.80	118.42	N116mArray-1A	B358M7	6/12/2016	BJT	125
571231.30	149822.20	118.42	199-N-347	B35BW1	6/23/2016	UX	48.1
571261.60	149752.10	118.42	199-N-18	B35LN7	7/24/2016	DT	17200
571480.90	149715.10	118.42	199-N-186	B32949	9/16/2015	U	50

Table C-6. Groundwater Data for TPH-Diesel (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571221.30	149799.00	118.43	199-N-211	B329C8	9/15/2015		827
571263.30	149738.50	118.43	199-N-172	B37T45	12/27/2016	D	16600
571218.70	149795.40	118.43	199-N-210	B2W3D4	3/31/2014	U	70
571375.90	149703.50	118.43	199-N-56	B37T71	12/27/2016	U	48.1
571213.50	149800.80	118.43	199-N-96A	B36BK0	9/22/2016	J	420
571197.40	149813.90	118.43	C6136	B2XFK3	9/16/2014	T	287
571294.00	149705.40	118.44	199-N-169	B35LM5	7/24/2016	T	1190
571203.30	149780.20	118.44	199-N-346	B36B51	9/16/2016	N	3800
571296.80	149698.30	118.44	199-N-167	B33LW3	2/17/2016		459
571184.30	149791.90	118.44	C6135	B37T83	12/12/2016		371
571198.50	149759.50	118.44	199-N-201	B31617	6/7/2015	U	17
571193.00	149759.70	118.45	199-N-173	B35BT7	7/5/2016		3600
571196.20	149755.40	118.45	199-N-200	B2WJM0	6/4/2014		859
571169.00	149776.00	118.45	N116mArray-0A	B33M06	2/17/2016	J	125
571277.90	149677.90	118.45	199-N-377	B36MJ5	9/30/2016	U	16
571165.30	149735.00	118.46	C6132	B358C9	5/31/2016	JT	77.4
571127.00	149679.70	118.50	C6322	B326B9	8/25/2015	U	17
571177.80	149629.40	118.51	199-N-21	B318M2	6/2/2015	U	48.5
571413.20	149542.10	118.53	199-N-57	B32BB7	9/16/2015	U	50
571561.40	149551.20	118.53	199-N-64	B32BC4	9/1/2015	U	16
571081.90	149621.30	118.55	C7937	B326P7	8/25/2015	U	48.5
571082.00	149621.90	118.55	C7938	B326R1	8/25/2015	U	17
571081.70	149621.40	118.55	C7939	B326R3	8/25/2015	U	50
571133.70	149571.80	118.57	199-N-371	B37L97	12/28/2016	U	47.6
571048.20	149577.50	118.59	C7934	B326N9	9/15/2015	U	17

Table C-6. Groundwater Data for TPH-Diesel (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (µg/L)
571047.70	149577.00	118.59	C7935	B326P1	9/15/2015	U	50
571047.60	149576.50	118.59	C7936	B326P5	9/15/2015	U	17
571906.90	149581.50	118.59	199-N-188	B32971	9/8/2015	U	47.2
571023.90	149554.40	118.61	C6319	B32699	8/25/2015	U	48.5
571116.30	149532.30	118.61	199-N-374	B37LD1	12/29/2016	U	47.6
571104.80	149500.20	118.65	199-N-372	B37LB4	12/29/2016	TU	48.5
571276.10	149441.80	118.67	199-N-373	B36MH8	9/26/2016	TU	48.1
571137.70	149346.40	118.87	199-N-376	B37LF3	12/28/2016	U	16

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571424.79	149903.68	118.39	199-N-103A	B36C84	9/28/2016		7030	6928.46
571778.32	149542.63	118.60	199-N-104A	B36C89	9/29/2016		7660	7550.56
571602.30	150024.96	118.37	199-N-105A	B36M55	9/22/2016		10300	10141.67
571737.60	150150.85	118.38	199-N-106A	B36C94	9/23/2016		9220	9079.65
571364.50	149968.34	118.40	199-N-119	B328R6	9/14/2015		1240	1152.59
571366.18	149970.76	118.40	199-N-120	B328R9	9/14/2015		2900	2695.58
571368.29	149973.29	118.40	199-N-121	B328T7	9/14/2015		8670	8058.90
571318.48	149928.81	118.41	199-N-122	B36M56	9/23/2016		3600	3545.23
571282.86	149889.37	118.41	199-N-123	B36M58	9/23/2016		1920	1890.76
571298.80	149909.74	118.41	199-N-146	B36M53	9/23/2016		906	892.21
571338.34	149946.51	118.40	199-N-147	B36M59	9/23/2016		370	364.37
571260.96	149154.68	119.04	199-N-165	B35888	6/24/2016		590	572.93
571193.02	149759.67	110.35	199-N-173	B1YK54	2/9/2009		2900	1860.20
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009		2500	1602.43
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009		1700	1089.45
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009		1000	640.85
571193.02	149759.67	118.45	199-N-173	B36M82	9/16/2016		1150	1131.26
571428.71	149819.87	118.39	199-N-182	B36CD6	9/23/2016		7930	7809.31
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011		4500	3268.09
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011		3700	2686.70
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011		2700	1959.09
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011		3000	2176.69
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011		3200	2321.53
571269.69	149756.01	115.95	199-N-183	B2C2C2	4/19/2011		3000	2176.36
571269.69	149756.01	118.42	199-N-183	B36FV6	9/30/2016		2500	2464.60

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011		12000	8908.94
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011		13000	9649.98
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011		13000	9648.46
571430.74	149817.82	116.91	199-N-184	B2C427	9/8/2011		6700	4968.18
571430.74	149817.82	118.39	199-N-184	B36CF7	9/23/2016		8570	8439.60
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011		15000	10845.28
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011		12000	8672.23
571546.33	150237.98	113.48	199-N-185	B2C4C9	3/24/2011		9600	6936.74
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011		5700	4118.07
571546.33	150237.98	116.55	199-N-185	B2C4C7	3/22/2011		8200	5923.17
571546.33	150237.98	118.40	199-N-185	B32939	9/14/2015		10200	9481.10
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011		13000	9605.52
571480.87	149715.06	116.27	199-N-186	B2C6R5	8/11/2011		18000	13289.96
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011		19000	14026.17
571480.87	149715.06	118.42	199-N-186	B36CH6	9/23/2016		12300	12112.71
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011		13000	9629.36
571565.90	149897.96	115.88	199-N-187	B2C7X8	8/31/2011		16000	11849.47
571565.90	149897.96	117.63	199-N-187	B2C7X7	8/30/2011		18000	13328.52
571565.90	149897.96	118.34	199-N-187	B36CJ6	9/23/2016		10600	10438.74
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011		9900	7347.59
571906.94	149581.53	116.30	199-N-188	B2CKX7	9/12/2011		9800	7271.24
571906.94	149581.53	117.55	199-N-188	B2CKX6	9/7/2011		9200	6820.92
571906.94	149581.53	118.59	199-N-188	B36CK9	9/23/2016		5560	5475.32
571209.05	149702.45	118.46	199-N-19	B36FV8	9/14/2016		868	853.60
571476.21	149859.43	118.37	199-N-2	B36M17	9/9/2016		5310	5218.00

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571177.78	149629.41	118.51	199-N-21	B36FV9	9/14/2016		1110	1091.58
572052.62	149659.79	118.54	199-N-27	B36CN5	9/14/2016		5040	4956.35
571955.27	149476.65	118.72	199-N-28	B36M21	9/12/2016		7740	7609.43
571317.38	149794.61	118.40	199-N-3	B34C55	3/10/2016		4520	4318.20
571907.62	149708.50	118.48	199-N-32	B34C59	3/9/2016		10200	9742.90
571737.41	149653.89	118.49	199-N-34	B36M23	9/9/2016		7270	7143.86
571203.32	149780.23	118.44	199-N-346	B36MB1	9/16/2016		1770	1741.18
571231.25	149822.23	118.42	199-N-347	B36MB3	9/16/2016		2680	2636.39
571248.28	149845.23	118.41	199-N-348	B36MB4	9/16/2016		2130	2095.36
571267.16	149866.13	118.41	199-N-349	B36MB5	9/23/2016		2410	2373.29
571356.74	149966.26	118.40	199-N-350	B36MB6	9/26/2016		1830	1802.98
571373.17	149987.11	118.40	199-N-351	B36MB7	9/26/2016		7960	7842.43
571388.72	150009.03	118.40	199-N-352	B36MB8	9/23/2016		5450	5367.14
571403.29	150031.62	118.40	199-N-353	B36MC5	9/23/2016		4500	4431.56
571418.57	150055.09	118.40	199-N-354	B36MD0	9/23/2016		8170	8045.66
571431.65	150077.00	118.40	199-N-355	B36MD1	9/19/2016		10100	9940.42
571446.09	150101.50	118.40	199-N-356	B36MD2	9/19/2016		9780	9625.43
571456.35	150125.44	118.40	199-N-357	B36MD3	9/19/2016		9330	9182.52
571466.28	150148.67	118.40	199-N-358	B36MD4	9/19/2016		6010	5914.97
571484.18	150168.77	118.40	199-N-359	B36MF0	9/19/2016		8830	8690.31
571504.04	150186.94	118.40	199-N-360	B36MF1	9/16/2016		6710	6600.66
571522.00	150206.98	118.40	199-N-361	B36MF3	9/16/2016		9380	9227.24
571538.55	150228.08	118.40	199-N-362	B36MF4	9/16/2016		8730	8587.86
571554.65	150249.90	118.40	199-N-363	B36MF5	9/16/2016		8910	8765.05
571569.71	150273.49	118.40	199-N-364	B36MF6	9/16/2016		8960	8814.28

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571583.77	150296.66	118.40	199-N-365	B36MF7	9/19/2016		8740	8601.69
571594.87	150317.84	118.40	199-N-366	B36MF8	9/23/2016		7460	7346.41
571611.38	150340.41	118.40	199-N-367	B36MF9	9/23/2016		7100	6991.87
571133.65	149571.82	110.63	199-N-371	B35VJ6	7/20/2016		1020	994.47
571133.65	149571.82	112.33	199-N-371	B35VF7	6/1/2016		828	801.22
571133.65	149571.82	118.46	199-N-371	B35VF0	5/26/2016		3280	3170.88
571133.65	149571.82	118.57	199-N-371	B36MH1	9/28/2016		1470	1448.74
571104.79	149500.24	109.66	199-N-372	B35VV4	7/21/2016		769	749.86
571104.79	149500.24	112.25	199-N-372	B35VR9	6/15/2016		405	392.74
571104.79	149500.24	116.36	199-N-372	B35VR2	6/9/2016		473	458.27
571104.79	149500.24	118.65	199-N-372	B36MH3	9/28/2016		654	644.55
571276.14	149441.79	118.67	199-N-373	B371P8	9/26/2016		1210	1192.16
571116.32	149532.29	111.27	199-N-374	B35XD4	7/13/2016		990	964.19
571116.32	149532.29	115.13	199-N-374	B35XF8	7/28/2016		168000	163997.98
571116.32	149532.29	116.22	199-N-374	B35XC7	7/11/2016		267000	259957.23
571116.32	149532.29	118.61	199-N-374	B37LC6	12/29/2016		9710	9706.16
571137.72	149346.36	111.94	199-N-376	B36696	7/27/2016		1370	1337.17
571137.72	149346.36	114.14	199-N-376	B366C6	8/24/2016		1310	1284.11
571137.72	149346.36	116.57	199-N-376	B36687	7/25/2016		1450	1414.83
571137.72	149346.36	118.87	199-N-376	B371R5	9/30/2016		1610	1587.23
571277.91	149677.94	118.45	199-N-377	B36MJ6	9/30/2016		2380	2346.33
572182.24	149965.26	118.38	199-N-41	B36M27	9/9/2016		5580	5483.27
572090.90	150298.79	118.36	199-N-50	B36CP6	9/19/2016		4500	4428.76
571796.10	150496.97	118.40	199-N-51	B36CP9	9/19/2016		3820	3759.51
571375.87	149703.50	118.43	199-N-56	B32B98	9/14/2015		2590	2407.45

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571413.17	149542.05	118.53	199-N-57	B36M33	9/12/2016		1140	1120.75
571561.41	149551.18	118.53	199-N-64	B36CT3	9/19/2016		4320	4251.67
571494.16	149798.95	118.40	199-N-67	B36CT8	10/6/2016		8600	8486.19
571483.89	149804.80	118.40	199-N-69	B32BD6	9/1/2015		9710	9007.50
572042.02	149877.99	118.39	199-N-70	B32BF1	9/1/2015		7800	7235.73
571292.02	149168.99	118.99	199-N-73	B32BF6	9/15/2015		551	512.24
571941.88	149156.14	118.98	199-N-74	B36M40	9/12/2016		7330	7206.38
571523.58	150060.72	118.40	199-N-75	B35C70	6/3/2016		9680	9369.68
571560.08	150122.12	118.40	199-N-76	B35C74	6/24/2016		9550	9273.69
571477.58	149950.85	118.38	199-N-80	B36CX5	9/28/2016		7250	7145.31
572019.16	149866.09	118.40	199-N-81	B36M48	9/9/2016		7610	7478.04
571647.42	150383.53	118.40	199-N-92A	B36M49	9/23/2016		7350	7238.03
571213.48	149800.76	118.43	199-N-96A	B36M54	9/22/2016		1830	1801.91
571473.67	150151.41	118.40	199-N-99A	B32BM5	9/28/2015		8410	7834.10
570886.33	149365.43	118.73	C6265	B36XD8	9/20/2016		1640	1614.31
571025.32	149554.57	118.61	C6317	B36D62	8/12/2016		12100	11838.81
571026.84	149554.80	118.61	C6318	B36D66	8/12/2016		379	370.82
571023.87	149554.40	118.61	C6319	B36D65	8/12/2016		523	511.71
571128.66	149677.99	118.50	C6320	B36D71	8/12/2016		848	829.71
571127.03	149679.68	118.50	C6322	B2XJ78	9/4/2014		1810	1587.99
571553.39	150267.91	118.40	C6325	B326D0	8/26/2015		9170	8498.68
571741.35	150541.11	118.40	C6328	B326D8	8/26/2015		2050	1899.90
571872.77	150720.49	118.36	C6331	B2XJ99	9/8/2014		1310	1150.03
571048.23	149577.50	118.59	C7934	B35RH1	7/29/2016		191000	186475.65
571047.74	149576.99	118.59	C7935	B35RH5	7/29/2016		226000	220647.26

Table C-7. Groundwater Data for Tritium (Best-Estimate Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571047.63	149576.49	118.59	C7936	B358J5	6/24/2016	N	122000	118471.32
571081.92	149621.34	118.55	C7937	B34F02	3/22/2016		1390	1330.38
571082.03	149621.92	118.55	C7938	B358K0	6/24/2016	N	1200	1165.30
571081.67	149621.35	118.55	C7939	B358K2	6/24/2016		1510	1466.34
571632.00	150391.00	118.40	N116mArray-15A	B326V5	8/26/2015		599	555.14

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571424.79	149903.68	118.39	199-N-103A	B36C84	9/28/2016		7030	6928.46
571778.32	149542.63	118.60	199-N-104A	B36C89	9/29/2016		7660	7550.56
571602.30	150024.96	118.37	199-N-105A	B36M55	9/22/2016		10300	10141.67
571737.60	150150.85	118.38	199-N-106A	B36C94	9/23/2016		9220	9079.65
571364.50	149968.34	118.40	199-N-119	B328R6	9/14/2015		1240	1152.59
571366.18	149970.76	118.40	199-N-120	B328R9	9/14/2015		2900	2695.58
571368.29	149973.29	118.40	199-N-121	B328T7	9/14/2015		8670	8058.90
571318.48	149928.81	118.41	199-N-122	B36M56	9/23/2016		3600	3545.23
571282.86	149889.37	118.41	199-N-123	B36M58	9/23/2016		1920	1890.76
571298.80	149909.74	118.41	199-N-146	B36M53	9/23/2016		906	892.21
571338.34	149946.51	118.40	199-N-147	B36M59	9/23/2016		370	364.37
571260.96	149154.68	119.04	199-N-165	B37NH8	12/12/2016		909	906.27
571193.02	149759.67	110.35	199-N-173	B1YK54	2/9/2009		2900	1860.20
571193.02	149759.67	113.40	199-N-173	B1YK50	2/4/2009		2500	1602.43
571193.02	149759.67	116.45	199-N-173	B1YK46	2/3/2009		1700	1089.45
571193.02	149759.67	116.53	199-N-173	B1YK44	2/3/2009		1000	640.85
571193.02	149759.67	118.45	199-N-173	B36M82	9/16/2016		1150	1131.26
571428.71	149819.87	118.39	199-N-182	B36CD6	9/23/2016		7930	7809.31
571269.69	149756.01	108.51	199-N-183	B2C2C8	4/26/2011		4500	3268.09
571269.69	149756.01	110.06	199-N-183	B2C2C7	4/25/2011		3700	2686.70
571269.69	149756.01	111.56	199-N-183	B2C2C6	4/20/2011		2700	1959.09
571269.69	149756.01	112.99	199-N-183	B2C2C5	4/20/2011		3000	2176.69
571269.69	149756.01	114.48	199-N-183	B2C2C4	4/19/2011		3200	2321.53
571269.69	149756.01	115.95	199-N-183	B2C2C2	4/19/2011		3000	2176.36
571269.69	149756.01	118.42	199-N-183	B36FV6	9/30/2016		2500	2464.60

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571430.74	149817.82	111.27	199-N-184	B2C432	9/16/2011		12000	8908.94
571430.74	149817.82	112.79	199-N-184	B2C431	9/15/2011		13000	9649.98
571430.74	149817.82	114.04	199-N-184	B2C430	9/14/2011		13000	9648.46
571430.74	149817.82	116.91	199-N-184	B2C427	9/8/2011		6700	4968.18
571430.74	149817.82	118.39	199-N-184	B36CF7	9/23/2016		8570	8439.60
571546.33	150237.98	110.18	199-N-185	B2C4D2	3/28/2011		15000	10845.28
571546.33	150237.98	111.71	199-N-185	B2C4D1	3/25/2011		12000	8672.23
571546.33	150237.98	113.48	199-N-185	B2C4C9	3/24/2011		9600	6936.74
571546.33	150237.98	114.76	199-N-185	B2C4C8	3/23/2011		5700	4118.07
571546.33	150237.98	116.55	199-N-185	B2C4C7	3/22/2011		8200	5923.17
571546.33	150237.98	118.40	199-N-185	B32939	9/14/2015		10200	9481.10
571480.87	149715.06	114.72	199-N-186	B2C6R6	8/16/2011		13000	9605.52
571480.87	149715.06	116.27	199-N-186	B2C6R5	8/11/2011		18000	13289.96
571480.87	149715.06	117.62	199-N-186	B2C6R3	8/10/2011		19000	14026.17
571480.87	149715.06	118.42	199-N-186	B36CH6	9/23/2016		12300	12112.71
571565.90	149897.96	114.17	199-N-187	B2C7Y0	9/1/2011		13000	9629.36
571565.90	149897.96	115.88	199-N-187	B2C7X8	8/31/2011		16000	11849.47
571565.90	149897.96	117.63	199-N-187	B2C7X7	8/30/2011		18000	13328.52
571565.90	149897.96	118.34	199-N-187	B36CJ6	9/23/2016		10600	10438.74
571906.94	149581.53	114.56	199-N-188	B2CKX9	9/14/2011		9900	7347.59
571906.94	149581.53	116.30	199-N-188	B2CKX7	9/12/2011		9800	7271.24
571906.94	149581.53	117.55	199-N-188	B2CKX6	9/7/2011		9200	6820.92
571906.94	149581.53	118.59	199-N-188	B36CK9	9/23/2016		5560	5475.32
571209.05	149702.45	118.46	199-N-19	B36FV8	9/14/2016		868	853.60
571476.21	149859.43	118.37	199-N-2	B36M17	9/9/2016		5310	5218.00

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571177.78	149629.41	118.51	199-N-21	B36FV9	9/14/2016		1110	1091.58
572052.62	149659.79	118.54	199-N-27	B36CN5	9/14/2016		5040	4956.35
571955.27	149476.65	118.72	199-N-28	B36M21	9/12/2016		7740	7609.43
571317.38	149794.61	118.40	199-N-3	B36M18	9/22/2016		4620	4549.02
571907.62	149708.50	118.48	199-N-32	B34C62	3/9/2016		10700	10220.49
571737.41	149653.89	118.49	199-N-34	B36M23	9/9/2016		7270	7143.86
571203.32	149780.23	118.44	199-N-346	B36MB1	9/16/2016		1770	1741.18
571231.25	149822.23	118.42	199-N-347	B36MB3	9/16/2016		2680	2636.39
571248.28	149845.23	118.41	199-N-348	B36MB4	9/16/2016		2130	2095.36
571267.16	149866.13	118.41	199-N-349	B36MB5	9/23/2016		2410	2373.29
571356.74	149966.26	118.40	199-N-350	B36MB6	9/26/2016		1830	1802.98
571373.17	149987.11	118.40	199-N-351	B36MB7	9/26/2016		7960	7842.43
571388.72	150009.03	118.40	199-N-352	B36MB8	9/23/2016		5450	5367.14
571403.29	150031.62	118.40	199-N-353	B36MC5	9/23/2016		4500	4431.56
571418.57	150055.09	118.40	199-N-354	B36MD0	9/23/2016		8170	8045.66
571431.65	150077.00	118.40	199-N-355	B36MD1	9/19/2016		10100	9940.42
571446.09	150101.50	118.40	199-N-356	B36MD2	9/19/2016		9780	9625.43
571456.35	150125.44	118.40	199-N-357	B36MD3	9/19/2016		9330	9182.52
571466.28	150148.67	118.40	199-N-358	B36MD4	9/19/2016		6010	5914.97
571484.18	150168.77	118.40	199-N-359	B36MF0	9/19/2016		8830	8690.31
571504.04	150186.94	118.40	199-N-360	B36MF2	9/16/2016		7020	6905.61
571522.00	150206.98	118.40	199-N-361	B36MF3	9/16/2016		9380	9227.24
571538.55	150228.08	118.40	199-N-362	B36MF4	9/16/2016		8730	8587.86
571554.65	150249.90	118.40	199-N-363	B36MF5	9/16/2016		8910	8765.05
571569.71	150273.49	118.40	199-N-364	B36MF6	9/16/2016		8960	8814.28

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571583.77	150296.66	118.40	199-N-365	B36MF7	9/19/2016		8740	8601.69
571594.87	150317.84	118.40	199-N-366	B36MF8	9/23/2016		7460	7346.41
571611.38	150340.41	118.40	199-N-367	B36MF9	9/23/2016		7100	6991.87
571133.65	149571.82	110.63	199-N-371	B35VJ6	7/20/2016		1020	994.47
571133.65	149571.82	112.33	199-N-371	B35VF7	6/1/2016		828	801.22
571133.65	149571.82	118.46	199-N-371	B35VF0	5/26/2016		3280	3170.88
571133.65	149571.82	118.57	199-N-371	B36MH1	9/28/2016		1470	1448.74
571104.79	149500.24	109.66	199-N-372	B35VV4	7/21/2016		769	749.86
571104.79	149500.24	112.25	199-N-372	B35VR9	6/15/2016		405	392.74
571104.79	149500.24	116.36	199-N-372	B35VR2	6/9/2016		473	458.27
571104.79	149500.24	118.65	199-N-372	B37LB1	12/29/2016		660	659.74
571276.14	149441.79	118.67	199-N-373	B37LB8	12/29/2016		1360	1359.48
571116.32	149532.29	111.27	199-N-374	B35XD4	7/13/2016		990	964.19
571116.32	149532.29	115.13	199-N-374	B35XF8	7/28/2016		168000	163997.98
571116.32	149532.29	116.22	199-N-374	B35XC7	7/11/2016		267000	259957.23
571116.32	149532.29	118.61	199-N-374	B36MJ0	9/28/2016		115000	113336.21
571137.72	149346.36	111.94	199-N-376	B36696	7/27/2016		1370	1337.17
571137.72	149346.36	114.14	199-N-376	B366C6	8/24/2016		1310	1284.11
571137.72	149346.36	116.57	199-N-376	B36687	7/25/2016		1450	1414.83
571137.72	149346.36	118.87	199-N-376	B371R5	9/30/2016		1610	1587.23
571277.91	149677.94	118.45	199-N-377	B36MJ6	9/30/2016		2380	2346.33
572182.24	149965.26	118.38	199-N-41	B36M27	9/9/2016		5580	5483.27
572090.90	150298.79	118.36	199-N-50	B36CP6	9/19/2016		4500	4428.76
571796.10	150496.97	118.40	199-N-51	B36CP9	9/19/2016		3820	3759.51
571375.87	149703.50	118.43	199-N-56	B32BB2	9/14/2015		2920	2714.19

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571413.17	149542.05	118.53	199-N-57	B36M33	9/12/2016		1140	1120.75
571561.41	149551.18	118.53	199-N-64	B36CT3	9/19/2016		4320	4251.67
571494.16	149798.95	118.40	199-N-67	B36CT9	10/6/2016		8670	8555.26
571483.89	149804.80	118.40	199-N-69	B32BD6	9/1/2015		9710	9007.50
572042.02	149877.99	118.39	199-N-70	B32BF1	9/1/2015		7800	7235.73
571292.02	149168.99	118.99	199-N-73	B32BF6	9/15/2015		551	512.24
571941.88	149156.14	118.98	199-N-74	B36M40	9/12/2016		7330	7206.38
571523.58	150060.72	118.40	199-N-75	B35C70	6/3/2016		9680	9369.68
571560.08	150122.12	118.40	199-N-76	B36CX1	9/22/2016		9620	9472.37
571477.58	149950.85	118.38	199-N-80	B36CX5	9/28/2016		7250	7145.31
572019.16	149866.09	118.40	199-N-81	B36M48	9/9/2016		7610	7478.04
571647.42	150383.53	118.40	199-N-92A	B36M49	9/23/2016		7350	7238.03
571213.48	149800.76	118.43	199-N-96A	B36M54	9/22/2016		1830	1801.91
571473.67	150151.41	118.40	199-N-99A	B32BM8	9/28/2015		8530	7945.88
570886.33	149365.43	118.73	C6265	B36XD8	9/20/2016		1640	1614.31
571025.32	149554.57	118.61	C6317	B36D62	8/12/2016		12100	11838.81
571026.84	149554.80	118.61	C6318	B36D66	8/12/2016		379	370.82
571023.87	149554.40	118.61	C6319	B36D65	8/12/2016		523	511.71
571128.66	149677.99	118.50	C6320	B36D71	8/12/2016		848	829.71
571127.03	149679.68	118.50	C6322	B2XJ78	9/4/2014		1810	1587.99
571553.39	150267.91	118.40	C6325	B326D0	8/26/2015		9170	8498.68
571741.35	150541.11	118.40	C6328	B326D8	8/26/2015		2050	1899.90
571872.77	150720.49	118.36	C6331	B2XJ99	9/8/2014		1310	1150.03
571048.23	149577.50	118.59	C7934	B33RC2	1/19/2016		373000	353557.46
571047.74	149576.99	118.59	C7935	B33RC9	1/19/2016		355000	336496.22

Table C-8. Groundwater Data for Tritium (Maximum Concentration Plume Data)

Easting (m)	Northing (m)	Elevation (m)	Well Name	Sample	Date	Lab Qualifier	Conc. Value (pCi/L)	Decayed Conc. Value (pCi/L)
571047.63	149576.49	118.59	C7936	B34L48	4/26/2016		241000	231913.92
571081.92	149621.34	118.55	C7937	B36DK3	8/12/2016		3110	3042.90
571082.03	149621.92	118.55	C7938	B36DK6	8/12/2016		1230	1203.46
571081.67	149621.35	118.55	C7939	B34F06	3/22/2016		2130	2038.65
571632.00	150391.00	118.40	N116mArray-15A	B326V5	8/26/2015		599	555.14

Attachment D
Software Installation and Checkout Forms

CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM

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

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

GENERAL INFORMATION:

1. Software Name: Leapfrog Hydro Software Version No.: 2.1

EXECUTABLE INFORMATION:

2. Executable Name (include path):

   C:\aranzgeo\leapfrog2.1\bin\hydro.exe

3. Executable Size (bytes): 3.7 MB

COMPILATION INFORMATION:

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

   Vendor supplied

5. Operating System (include version number):

   Windows (Vendor supplied)

INSTALLATION AND CHECKOUT INFORMATION:

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

   Intera ID # 00388

7. Operating System (include version number):

   Windows 7 Professional, Service Pack 1, 64-bit Operating System

8. Open Problem Report? (•) No ( ) Yes PR/CR No.

TEST CASE INFORMATION:

9. Directory/Path:

   c:\test\leapfrog\

10. Procedure(s):

    per CHPRC-01754 Rev 0, Leapfrog Hydro Software Test Plan

11. Libraries:

    N/A

12. Input Files:

    per CHPRC-01754 Rev 0, Leapfrog Hydro Software Test Plan

13. Output Files:

    per CHPRC-01754 Rev 0, Leapfrog Hydro Software Test Plan

14. Test Cases:

    Vendor Installation Package, TC-1, TC-2,TC-3, TC-4

15. Test Case Results:

    Pass

16. Test Performed By: TJ Budge

17. Test Results: (•) Satisfactory, Accepted for Use ( ) Unsatisfactory

18. Disposition (include HISI update):

    Accepted; installation added to Hanford Off-Site user list

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CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM (continued)

1. Software Name: Leapfrog Hydro — Software Version No.: 2.1

Prepared By:

19.	WE Nichols	12-19-2013
Software Owner (Signature)	Print	Date

20. Test Personnel:

	TJ Budge	12-19-2013
Sign	Print	Date
Sign	Print	Date
Sign	Print	Date

Approved By:

21.	N/R per SMP	
Software SME (Signature)	Print	Date

Page 2 of 2 A-6005-149 (REV 0)

Attachment E

Electronic Model Data Transmittal EMDT-DE-0006 Rev. 1 "Half-lives for Typical Hanford Site Radioactive Contaminants"

CH2MHILL

Environmental Modeling Data Transmittal Cover Page

No.: EMDT-DE-0006 **Revision No.:** 1

[Request EMDT number from Modeling Team Leader]

Title: Half-lives for Typical Hanford Site Radioactive Contaminants. **Date:** 18-May-2015

1. Data Description

Provide the description of data set or data type.

Radioactive half-lives for reported radionuclides at Hanford site.

2. Data Intended Use

Identify the data's intended use. Describe the rationale for its selection and how the data will be incorporated into a model, report, or database. Include discussion of the extent to which the data demonstrate the properties of interest.

Numerical simulation of contaminant transport and fate

3. Data Sources

List databases, documents, etc. – provide sufficient detail to enable data to be located by independent reviewer

ICRP, 2008, Nuclear Decay Data for Dosimetric Calculations, International Commission on Radiological Protection (ICRP), Publication 107, Vol 38-3, ISBN 978-0-7020-3475-6.

4. Impact of Use or Nonuse of Data

Describe the importance of the data to the model, report, and/or conclusions which they support. Identify the value added and discuss the impacts of not using the data.

The half-life data are required to be consistent with PA studies and the model implementations in GoldSim and STOMP

5. Prior Uses

Identify the data's prior uses. Describe whether the data have been used in similar applications by the scientific or regulatory community. Include the associated verification processes and prior reviews and review results.

The ICRP Publication 107 data is used by the U.S. EPA calculation tool for radiation dose and risk.

CH2MHILL

Environmental Modeling Data Transmittal Cover Page

No.: EMDT-DE-0006 **Revision No.:** 1

[Request EMDT number from Modeling Team Leader]

Title: Half-lives for Typical Hanford Site Radioactive Contaminants. **Date:** 18-May-2015

6. Data Acquisition Method(s)

Describe the data acquisition method and associated QA/QC, considering the following:

a. Qualifications of personnel or organizations generating the data;
b. Technical adequacy of equipment and procedures used;
c. Environmental and programmatic conditions if germane to the data quality;
d. The extent to which acquisition processes reflect modeling requirements;
e. The quality and reliability of the measurement control program;
f. The degree to which independent audits of the process were conducted;
g. Extent and reliability of the associated documentation.

In addition to the listing tables in the ICRP publication 107 (ICRP, 2008), ICRP provides a database for electronic access. The database contains information on the half-lives, decay chains, yields and energies of radiations emitted in nuclear transformations of 1252 radionuclide isotopes of 97 elements. The database can be accessed by a user-defined software such as the Windows-based application provided by ICRP.

For databases, identify query language used to obtain data from database (SQL, etc.), briefly describe the query description and attach copy

The nuclear decay data are embodied in five formatted (hence can be viewed with an ASCII editor) direct-access files. Find a copy of text files and inquiry software: (P107JAICRP_38_3_Nuclear_Decay_Data_suppl_data.zip)

7. Corroborating Data

Identify and discuss any corroborating datasets. Provide any documentation that confirms the corroborating data substantiate existing parameter values, distributions, or data quality.

The ICRP half-lives were compared with three other sources that were listed in the rev 0 of this document. The best match to ICRP-P107 was source 2: DOE-STD-1196-2011, DOE Standard, Derived Concentration Technical Standard (April 2011). Differences were compared to four significant digits, while some half-lives were reported to only two significant digits.

8. Data Quality Considerations

Discuss data quality considerations not identified in other sections. Include discussion of data quality indicators (i.e., accuracy, precision, representativeness, completeness, and comparability).

For the radionuclides reported at the Hanford site, the ICRP half-life parameters match very closely the U.S. DOE standard DOE-STD-1196-2011, which is implemented in the U.S. EPA decay calculation tools. Additionally, the ICRP library is implemented in the GoldSim software that is approved for Hanford Site and used for PA's system models.

The %relative difference between the ICRP-P107 and the DOE-STD-1196-2011 data is less than 0.36% for all Hanford site radionuclides isotopes.

CH2MHILL Plateau Remediation Company

Environmental Modeling Data Transmittal Cover Page

No.: EMDT-DE-0006 **Revision No.:** 1

[Request EMDT number from Modeling Team Leader]

Title: Half-lives for Typical Hanford Site Radioactive Contaminants. **Date:** 18-May-2015

9. Assumptions and Limitations on Data Use

Document known uncertainties, assumptions, constraints or limits on data.

The ICRP–P107 provides a reliable information on physical characteristics of a radionuclide (half-life, modes of decay, energies, intensities of the emitted radiations, etc.) that is the starting point in assessing the radiological significance of a radionuclide's presence in the workplace or in the environment. Uncertainties of these information would result from different limitation in accounting for the fraction of the available decay energy given to radiations of discrete energy (alpha particles, gamma rays, conversion electrons, Auger elections, and characteristic x rays) as well as the continuous energy spectra of beta particles. Accounting for such details requires very specific expertise and is a laborious task that is not needed for the subject calculation. The ICRP reported half-lifes provide adequate accuracy for the forward and backward decay calculations needed to accompany transport and fate studies of radionuclides in the environment and the associated risk.

Data Configuration Item Submittal:

Data Provider Submittal

Usama Zaher/ Environmental Engineer – Process Modeling Specialist
NAME/POSITION

SIGNATURE

6/12/2017
DATE

Data Configuration Item Review and Verification:

10. Verification Process

Describe steps taken to verify that these data are appropriate for intended use, noting any limitations

Implementation in 1st and 2nd order decay calculations in spread sheet. Initial and decayed state estimations was verified in both forward and backward (regrow) decay. The forward decay was also compared with the integration solution in GoldSim. Secular equilibrium is considered for the 2nd order calculations with rapidly decaying daughters relative to parents.

11. Summary of Data Review

The review shall ensure that the report meets the listed criteria. Consideration includes ensuring that the data collection method employed was appropriate for the type of data being considered and confidence in the data acquisition and subsequent processing methodology is warranted.

Is documentation technically adequate, complete, and correct?	[X] Yes	[ ] No
Are uncertainties and limitations on appropriate use of data discussed?	[X] Yes	[ ] No
Are the assumptions, constraints, bounds, or limits on the data identified?	[X] Yes	[ ] No

Data Reviewer Approval	*Approval of Data Configuration Item*	
	M Lord / Senior Hydrogeologist (Signature by WE Nichols with attached email authorization from M Lord) NAME/POSITION	
	SIGNATURE	12 JUN 2017 DATE

signature authorization

Michael Lord

Mon 6/12/2017 4:03 PM

To:Will Nichols <wnichols@intera.com>;

I give Will Nichols authorization to sign for me the Environmental Modeling Data Transmittal Cover Page (EMDT) document in file EMDT-DE-00060rev1.docx. I have inspected the data for the radioactive half-lives for reported radionuclides at the Hanford site. My suggested edits to the data and the EMDT document were implemented and with this authorization I am signing my approval of the data configuration item.

Michael Lord

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Attachment F
Leapfrog Geo Notes by Scenario Regarding Excluded Observation Data

Table F-1. Leapfrog Geo Notes

Nitrate (Best-Estimate)	2017-08-25: The following samples were excluded to preserve the annual report NO3 plume shape: B32BF2, B35BY9, B35DJ9, B32DN4, B37T10, B32BK3 Samples whose values were inconsistent with immediately surrounding values (e.g. immediate neighbors within 1-10 meters) that were excluded from analysis: B326P8, B35XC6 2017-11-13: Ignored sample with review qualifier of "R": B319N9
Nitrate (Maximum)	2017-08-15: The following samples were excluded to preserve the annual report NO3 plume shape: B32BF2, B32BK3, B32DN4, B36B62 Samples whose values were inconsistent with immediately surrounding values (e.g. immediate neighbors within 1-10 meters) that were excluded from analysis: B326P8 2017-11-13: Ignored sample with review qualifier of "R": B326V2
Sr-90 (Best-Estimate)	2017-08-14: Excluded the following samples from analysis to preserve SR-90 annual report plume: B34C59, B32BF1, B36CX5, B32BD6 2017-11-13: Ignored sample with review qualifier of "R": B319N8
Sr-90 (Maximum)	2017-08-14: Excluded the following samples from analysis to preserve SR-90 annual report plume: B34C62, B32BF1, B36CX5, B32BD6 Inconsistent samples excluded (e.g. non-detect sample between two higher concentration samples in the same borehole): B2C2C6 2017-11-13: Ignored sample with review qualifier of "R": B326V1
TPH-Diesel (Best-Estimate)	2017-08-15: The following samples were excluded to preserve the TPHD annual report plume: B091D8, B091F5, B091F2, B091F6, B091F3 Samples inconsistent with surrounding data excluded from analysis: B2C2C4
TPH-Diesel (Maximum)	2017-08-14: The following samples were excluded to preserve the TPHD annual report plume: B091F5, B091F6, B091D8, B091F3, B091F2, B2C2C8 Samples inconsistent with surrounding data excluded from analysis: B2C2C4 2017-11-13: Ignored sample with review qualifier of "Y": B33LY1

Tritium (Best-Estimate)	2017-08-14: Excluded the following samples to preserve the Tritium annual report plume: B35BP8 2017-11-13: Ignored sample with review qualifier of "Y": B2C2C1
Tritium (Maximum)	2017-08-14: Excluded the following samples to preserve the Tritium annual report plume: B35BP8 2017-11-13: Ignored sample with review qualifier of "Y": B2C2C1
Nitrate (Vadose Zone)	2017-08-22: Well 199-D3-5 ignored as datapoint lies outside area of interest for 100-N Area Elevations for B14506 and B14510 adjusted to be 140 m to be consistent with 'topo_bath_new' mesh elevations. Originally the collar elevations were higher than the ground surface elevation.
Sr-90 (Vadose Zone)	2017-08-25: The following samples were ignored as being extraneous to the 100-N Area or inconsistent with surrounding data (favoring higher concentration measurements over lower concentrations to be conservative): J1JD42, EAL00354 (a), EAL00351 (a), EAL00307 (a), EAL00306 (a), EAL00296 (a), B0DRL5, B0H1W4, B0DRL1, B0DRK7, B06M61, 105A/85-97 (a)
TPH-Diesel (Vadose Zone)	2017-09-28: Ignored B0BT21, outside of time window for COC analysis.