Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

August 28, 2015

VIA OVERNIGHT DELIVERY

Mr. Scott Anderson
Director
Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84114-4820

Mr. Anderson:

Re: State of Utah Radioactive Material License No. UT1900479
White Mesa Mill, Blanding, Utah
Semi-Annual Effluent Monitoring Report for Period
January 1 through June 30, 2015

As required by Utah Administrative Code, R 313-24-4 (incorporating by reference 10 CFR 40.65 (subpart1)), and License Condition 11.3A of State of Utah Radioactive Materials License No. UT1900479, enclosed is the Semi-Annual Effluent Monitoring Report for the White Mesa Mill for the period January 1 through June 30, 2015.

If you have any questions regarding this report, please contact the undersigned at (303) 389-4134.

Yours very truly,

Kathy Weinel

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Quality Assurance Manager

cc: David C. Frydenlund
Harold R. Roberts
David E. Turk
Scott A. Bakken
Jaime Massey

White Mesa Uranium Mill
Radioactive Materials License UT900479
Semi-Annual Effluent Monitoring Report
(January through June 2015)

Prepared For:
Utah Department of Environmental Quality
Division of Waste Management and Radiation Control

Prepared by:

Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
Lakewood, CO 80228

August 28, 2015

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WHITE MESA URANIUM MILL
SEMI-ANNUAL EFFLUENT REPORT, JANUARY THROUGH JUNE 2015

1.0 INTRODUCTION

The White Mesa Mill (the "Mill") has established monitoring programs to evaluate compliance with effluent limitations and to assess the potential for release of radioactive material into the local environment. These monitoring programs were developed and implemented at the time of Mill construction, operated with appropriate adaptation over time, and are consistent with the Mill's State of Utah Radioactive Materials License No. UT1900479 (the "License") and guidelines developed by the United States Nuclear Regulatory Commission ("NRC") (NRC Regulatory Guide 4.14, *Radiological Effluent and Environmental Monitoring at Uranium Mills-Rev. 1, ML003739941)*, 1980).

1.1 Modifications to the Monitoring Programs in 2014

As stated above, the monitoring programs implemented to date are consistent with the Mill's License and guidelines developed by the NRC and described in Regulatory Guide 4.14. The Mill's License was amended by the Division of Waste Management and Radiation Control ("DWMRC") (formerly the Division of Radiation Control) on July 10, 2014. License Amendment 7 ("Amendment 7") dated July 10, 2014, among other things, modified and expanded the effluent monitoring programs implemented at the Mill. Amendment 7 required additional monitoring beyond what is regularly required by NRC Regulatory Guide 4.14. DWMRC requested the additional monitoring be documented in a revision to the Mill's Environmental Protection Manual ("EPM"). As required, EFRI submitted a revised EPM for DWMRC approval on September 8, 2014. A subsequent DWMRC Request for Information ("RFI") dated October 14, 2014 and e-mail correspondence dated October 20, 2014 added additional monitoring requirements beyond those specified in Amendment 7. EFRI incorporated the modifications resulting from the RFI and e-mail correspondence into an EPM revision submitted to DWMRC on November 18, 2014. The November 18, 2014 EPM was approved by DWMRC in a letter dated December 10, 2014. Specific changes to the individual monitoring programs resulting from Amendment 7, the RFI and the e-mail correspondence are discussed in the subsequent sections of this report.

In a letter dated July 23, 2014, DWMRC stated that because "Tailings Cell 2 is no longer in operation (receiving tailings), the Division of Air Quality and the Division of Radiation Control agree that Subpart W NESHAPs requirements (40 CFR Part 61) no longer apply; however, at this phase of cell 2 closure activities, the requirements of 10 CFR Part 40, Appendix A, Criterion 6 do apply." The July 23, 2014 letter further requires that radon flux measurements for Cell 2 be collected semi-annually in accordance with methodology specified in 40 CFR Part 61, Appendix B, Method 115 and that the measured results be included in the Semi-Annual Effluent Reports submitted to DWMRC. As a result of the July 23, 2014 letter, Cell 2 radon flux monitoring data are

reported herein. Additional details regarding the monitoring and data collection activities for the Cell 2 radon flux are included in Section 9.0.

As specified by the License and the documents described above, the Mill monitors the following environmental media and conditions:

a) Airborne particulate radionuclide concentrations obtained from the following sampling stations:

- North, east and south of the Mill Site: BHV-1, BHV-2, and BHV-8 (north), BHV-5 and BHV-7 (east), and BHV-4 (south). BHV-1 and BHV-8 serve as surrogates for the nearest resident (BHV-1 and BHV-8 are approximately 1.2 miles north of the Mill, but approximately 0.4 miles closer to the Mill than the nearest resident);
- A background location distant to and west of the Mill (BHV-3) that was monitored for airborne particulates up until November, 1995 (at which time background was established), which is no longer monitored for air particulates; and
- A station specifically requested by the White Mesa Ute Community south of the Mill Site (BVH-6);

b) External (direct) gamma radiation measured at air monitoring stations BHV-1, BHV-2, BHV-3, BHV-4, BHV-5, BHV-6, BHV-7, and BHV-8;

c) Vegetation at three site periphery locations, for uptake of radionuclides;

d) Stack release rates from the Mill's air emissions sources;

e) Surface water at Cottonwood Creek and, when flowing, Westwater Creek, both located west of the Mill;

f) Soil radionuclide activity during the third quarter of each year;

g) Radon-222 at the air particulate monitoring stations (BHV-1 through BHV-8);

h) Radon flux of the Cell 2 cover as specified by the DWMRC in correspondence dated July 23, 2014;

i) Groundwater (up and down gradient) of the Mill facility; and[1]

j) Seeps and springs in the vicinity of the Mill.[1]

[1] Groundwater sampling and seeps and springs sampling are reported separately pursuant to the Mill's State of Utah Ground Water Discharge Permit No. UGW370004, and are not included with this report.

This semi-annual effluent report provides the results of the specific monitoring and sampling activities that were undertaken during the subject reporting period.

2.0 ENVIRONMENTAL AIR PARTICULATE SAMPLING

2.1 Program Overview

Prior to Amendment 7, the environmental airborne particulate monitoring program at the Mill utilized four air sampling stations. Four high-volume continuous air sampling stations (BHV-1, BHV-2, BHV-4, and BHV-5) were required by the License. In addition to these four environmental air sampling locations, an additional station (BHV-6) was installed at the request of the White Mesa Ute Community. This station began operation in July of 1999 and provides airborne particulate information in the southerly direction between the Mill and the White Mesa Ute Community.

As stated in Section 1.1 above, Amendment 7 expanded the air particulate monitoring program. Amendment 7 included the following expansion of the air particulate monitoring program:

- Addition of two air monitoring stations (BHV-7 and BHV-8);
- Addition of thorium-232 ("Th-232") to the list of air particulate analytes;

These sampling stations serve as sentinels for airborne particulate which could potentially emanate from the Mill site. In addition to its general site monitoring function, BHV-1 and BHV-8 also serve as conservative surrogates for concentrations at the nearest resident, because they are located approximately 1.2 miles north of the Mill just south of the nearest resident but between the Mill and that resident.

With regard to background monitoring, the Mill previously operated a continuous high-volume air sampling station (BHV-3) which was located approximately 3.5 miles west of the Mill site. With the approval of NRC, this station (BHV-3) was removed from the active air monitoring program in November 1995. At that time, NRC determined that a sufficient air monitoring database had been compiled at BHV-3 to establish a representative airborne radionuclide background for the Mill. While air sampling was discontinued at this location, gamma measurements and soil sampling continue at BHV-3.

2.2 Sampling Protocol and Analytical Results

Airborne particulate monitors are operated continuously at each of the high-volume air sampling stations except BHV-3, BHV-7 and BHV-8. As noted above, BHV-3 was removed from the active air monitoring program in November 1995. BHV-7 and BHV-8 are discussed in detail below.

Pursuant to Amendment 7, the associated RFI and e-mail correspondence, EFRI submitted a revised EPM which was approved by DWMRC letter dated December 10, 2014. Amendment 7 required the implementation of the revised monitoring programs within 90 days of approval of the EPM or March 10, 2015. As a good faith effort, EFRI began procurement of the equipment for the BHV-7 and BHV-8 monitoring stations and began analyzing Th-232 at the existing five stations immediately upon receipt of Amendment 7. BHV-7 and BHV-8 monitoring stations were installed and collecting data on January 26, 2015 prior to the March 10, 2015 deadline. Data for Th-232 are presented for the reporting period for all of the sampling locations.

Particulate sample collection filters are gathered by site technicians weekly in accordance with the Mill's environmental air sampling procedures and are composited on a quarterly basis for laboratory analyses. The collected filters are analyzed for Unat activity, Th-230 activity, Ra-226 activity, Th-232 and Pb-210 activity. Fugitive dust standards for the facility are limited by the Mill's State of Utah Air Approval Order. The specific locations of the Mill's airborne particulate monitoring stations are depicted on the figure entitled Particulate Monitoring Stations included as Attachment A. Station BHV-3, which is no longer sampled for air particulates, is located approximately 3.5 miles west of the Mill facility and is not shown on the Figure.

The analytical results of radionuclide particulate sampling for each monitoring station operated during this reporting period are provided in Attachment B under separate sampling station attachment tabs (Tabs 1-8). Each tab contains graphical illustrations of the radionuclide concentrations in log-scale presentation format. The graphs display reported data over time since the 1981 inception of the Mill's environmental air particulate monitoring program or the installation of the locations, whichever is appropriate. The actual analytical results (and associated QA/QC information) reported by the laboratory for the reporting period are provided under Attachment C. In addition to the analyses for radionuclides, particulate loading is determined for each filter and composited as a quarterly mass-loading estimate for review purposes only. Graphs showing particulate loading at each station and the underlying data are included as Attachment D.

For graphical illustration purposes, values reported at zero, values reported at less than the prescribed detection limit ($< 1 \times 10^{-16}$ uCi/ml), and missing values were plotted as 1×10^{-16} uCi/ml concentrations. Where other "less than" values were indicated (i.e., where detection limits for the data varied from 1×10^{-16} uCi/ml), the detection limit concentration was utilized for plotting the data point. This graphing convention is not utilized to formulate station average information, nor is it intended as a precedent for data treatment. Rather, the intent is to provide a conservative viewable depiction of site airborne radionuclide information. This is considered to be a conservative approach, because the actual concentration below the detection limit cannot be determined and, as a result, the plotted point will be at the same or a higher concentration than the actual activity concentration of the collected sample.

2.3 General Observations

The results of environmental air monitoring for this semi-annual period indicate that for all radionuclides at all monitoring stations, airborne radionuclide particulate activity concentrations were well below regulatory Effluent Concentration Limits ("ECL's") and the Mill's ALARA goals, which are set at 25% of the ECLs, except as noted below.

The first quarter Unat result at BHV-6 was slightly above the Mill's ALARA goal, but still well below the ECL. This elevated result is likely due to laboratory contamination as indicated by the detection of Unat reported in the method blank. Blank detections are indicative of a false positive or high bias to the sample results as the laboratory contribution increases the concentration of the sample results. Additionally, this result at BHV-6 is not indicative of Mill activity, because the second quarter Unat result at BHV-6 was an order of magnitude lower than the first quarter result and well below both the ECL and the Mill's ALARA goal limits.

It is noteworthy and expected that Pb-210 concentrations are elevated when compared to the other parent radionuclide concentrations (i.e. U-nat, Th-230 and Ra-226). This phenomenon is due to the well-established controlling effect experienced worldwide as a result of the ubiquitous presence of radon in the earth's atmosphere. Accordingly, the elevated Pb-210 presence in disequilibrium with parent radionuclides measured here is not associated with uranium milling operations. Rn-222 emanates as a decay-chain progeny of the Ra-226 contained in the soil of the earth's crust and is dispersed generally throughout the earth's atmosphere. The electrically charged short and long-lived decay products of Rn-222 attach to ambient dust particles found naturally in the atmosphere and are carried with the air. Pb-210 is the longest lived of these decay products and is the decay product of the shorter-lived radon progeny. As such, it accumulates as an electrical attachment on the natural ambient dust in the atmosphere and is generally measured at elevated activity when compared to local decay-chain parent radionuclide activity, regardless of uranium milling activity. At the Mill's BHV air monitoring stations, all dust (ambient natural and mill derived) is collected by the sample filter. Because of the natural elevation of Pb-210 accumulated as an attachment to the naturally occurring ambient dust particles collected by the air sampling equipment, Pb-210 is commonly elevated and in disequilibrium when compared to parent radionuclide activity, regardless of the Mill's presence. By way of illustration, average ground-level concentrations have been reported for selected States (NCRP Report 94, 1992) and are summarized in Table 1 in the Tables Tab of this report, demonstrating that elevated Pb-210 activity is present where no uranium milling operations are located nearby. In April 1977, prior to Mill construction and Mill operations, air particulate Pb-210 was measured at the Mill site to be 1.3E-14 uCi/ml (13.0E-3 pCi/m^3)[2].

[2] See the *Environmental Report, White Mesa Uranium Project, San Juan County, Utah for Energy Fuels Nuclear, Inc.* prepared by Dames & Moore, January 30, 1978, Section 2.9.1.1

2.4 Site Specific Sampling Data

The results of airborne particulate monitoring for the period (without background subtraction) are provided by sampling station and radionuclide in Tables 2 through 6 in the Tables Tab of this report. Along with these data, the tables present comparative ECL's and the ECL percentage measured at each of the monitoring stations sampled during the period. A review of these data support the conclusion that airborne particulates are well controlled at the Mill. In all cases, the measured activity concentrations were well within the ECL, as well as the Mill's ALARA goal (i.e. 25% of the ECL), except the first quarter Unat result which is discussed above. Lower Limits of Detection consistent with NRC Regulatory Guide 4.14 were maintained by the Mill's contract analytical laboratory for this reporting period.

The data obtained since program inception in 1981 indicates that only one individual quarterly measurement (Th-230 at BHV-5 for the 2nd Quarter of 1996) has ever exceeded the ECL at the Mill. While it is important to consider and evaluate an individual measurement exceeding the ECL, it is the average annual concentration that is of primary significance for public dose estimation purposes. In that instance, the average annual concentration of Th-230 for BHV-5 in 1996 was well below the ECL. Data obtained since program inception in 1981 also indicate that, with very few exceptions, the gross (background inclusive) measurements do not exceed the site's ALARA goal (i.e. only ten of the several thousand total gross radionuclide determinations to date exceeded the Mill's self-imposed 25% ALARA goal).

2.5 Radon-222

With the approval of the NRC, Radon-222 monitoring at BHV stations at the Mill was discontinued in 1995 due to the unavailability of monitoring equipment to detect the revised 10 CFR Part 20 standard. Instead, compliance with these limits and the requirements of R313-15-301 was demonstrated by a calculation, authorized by the NRC and as contemplated by R313-15-302(2)(a) which states "A licensee or registrant shall show compliance with the annual dose limit in Section R313-15-301 by: (a) Demonstrating by measurement or calculation that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed or registered operation does not exceed the annual dose limit;". This calculation is performed by use of the MILDOS code for estimating environmental radiation doses for uranium recovery operations. R313-15-302(2)(a) contemplates demonstrating compliance either through modeling or measurement.

In order to determine whether or not detection equipment has improved since 1995, EFRI voluntarily began ambient Radon-222 monitoring at the BHV stations in 2013. The Radon-222 data collected from 2013 through present are presented in Attachment J. As stated in Section 1.1 above, Amendment 7 expanded the Mill's effluent monitoring programs in 2014. Amendment 7 included expanding the monitoring programs to require the collection of Radon-222 data at all of the BHV stations. For BHV stations 1 through

6, EFRI previously calculated ECLs using methodology specified in the Semi-annual Effluent Report for July 2008 through December 2008, submitted to DWMRC on February 27, 2009. ECLs for BHV-7 and BHV-8 have been calculated using the same methodology. The ECLs for all of the BHV stations are included on the data table included in Attachment J.

3.0 EXTERNAL RADIATION (DIRECT GAMMA)

Gamma exposure rate estimates were measured for the reporting period utilizing optically stimulated luminescence dosimeters ("OSLs"). Previously, these dosimeters were located at each of the Mill's high-volume air sampling stations (BHV-1, BHV-2, BHV-4, BHV-5 and BHV-6) and at the designated background monitoring station (BHV-3). As noted in Section 1.1 of this report, Amendment 7 expanded the effluent monitoring programs at the Mill. Amendment 7 included expansion of the gamma exposure monitoring program through the addition of gamma monitoring at the two new air monitoring stations (BHV-7 and BHV-8).

Measurements obtained from location BHV-3 have been designated as background due to BHV-3's remoteness from the Mill site (i.e., BHV-3 is located approximately 3.5 miles west of the Mill site). The results of the environmental OSL measurements and semi-annual cumulative above-background data are provided in Table 6 in the Tables Tab of this report. In addition, measurement data obtained at these locations are graphically presented in Attachment E to this report.

The results for this period indicate that above background measurements for stations BHV-1, BHV-2, BHV-4, BHV-5, BHV-6, BHV-7, and BHV-8 are within regulatory limits. BHV-1 and BHV-8 are at the location of the nearest potential residence. The nearest actual residence is approximately 0.4 miles north of BHV-1 and BHV-8. The annual limit for an individual member of the public is 100 mrem/yr for combined internal and external exposure.

4.0 VEGETATION SAMPLES

Vegetation samples are collected at three locations around the Mill property. The sampling locations are: 1) northeast, 2) northwest and 3) southwest of the Mill facility. The NRC Regulatory Guide 4.14 requires that three samples be collected during the grazing season, without specifying exact months or times during the season. As noted in Section 1.1, Amendment 7 and the associated RFI expanded the vegetation sampling program through the addition of Th-232 and U-Nat. Implementation of the expanded analyte list began this reporting period.

During the 2015 grazing season, two sets of samples were collected on April 21, 2015 and June 15, 2015. A third sampling event is planned for the fall season. The data from the fall season sampling will be included in the July through December 2015 Semi-

Annual Effluent Report which will be submitted to DWMRC on or before March 1, 2016. Data from the April and June sampling events are included in this report.

Graphical log-scale presentation of the vegetation sampling results, together with the analytical results reported by the Mill's contract laboratory (including QA/QC information) for this sampling period, are included as Attachment F of this report. The 2015 data results are within the variation of previous sampling episodes.

5.0 STACK SAMPLING

Under Section 5.0 of Tab 1.4 of the Mill's *Environmental Protection Manual,* Revision: EFR-4, 11/14 (the "*Environmental Protection Manual*") as modified in response to DWMRC e-mail correspondence dated October 20, 2014, gas stack samples are collected at the Mill in accordance with the schedule shown below:

Stack Sampling Requirements

Frequency	Grizzly Baghouse Stack	North and/or South Yellowcake Dryer Stacks	Yellowcake Packaging Baghouse Stack	Vanadium Dryer Stack	Vanadium Packaging Stack
Quarterly	If operating, U-nat, Th-230, Ra-226, Pb-210, Th-232, Ra-228, and Th-228.	If operating, U-nat, Th-230, Ra-226, Pb-210, Th-232, Ra-228, and Th-228.	If operating, U-nat, Th-230, Ra-226, Pb-210, Th-232, Ra-228, and Th-228.	If operating, U-nat, Th-230, Ra-226, Pb-210, Th-232, Ra-228, and Th-228.	If operating, U-nat, Th-230, Ra-226, Pb-210, Th-232, Ra-228, and Th-228.

The analytical results of stack sampling conducted in the first quarter of 2015, as well as for the third quarter of 2014, are provided in Table 8 in the Tables Tab of this report. No drying or packaging was conducted during the fourth quarter of 2014 or during the second quarter of 2015, and therefore, no sampling was completed. The actual analytical results reported by the laboratory for the first quarter of 2015 are provided in Attachment G to this report.

As shown in Table 8 and in Attachment G, the laboratory did not report Ra-228 as required by the modified EPM and DWMRC e-mail correspondence on October 20, 2014. The laboratory noted that the COC provided by EFRI contract personnel that accompanied the samples was correct and requested Ra-228 be analyzed, but the laboratory failed to notice the request and therefore did not analyze for Ra-228. EFRI was not notified of the omission until after the first quarter was over and there was no longer an opportunity to resample. The entire sample volume was consumed during the analysis of the other constituents, and therefore, it was not possible to analyze for Ra-228 in the first quarter of 2015 using the existing samples. The laboratory, TestAmerica, has taken

full responsibility for the omission and detailed the issue in a letter which is included in Attachment G. The laboratory advised that it will review how it can prevent this kind of error from occurring in the future. In addition, EFRI's Quality Assurance Manager will follow up with the laboratory upon receipt of the next round of samples.

The south yellowcake dryer and yellowcake baghouse operated during the first quarter of 2015. The north yellowcake dryer has not been in operation since the third quarter of 2012, and therefore, has not been sampled since it was last in operation. The vanadium dryer and vanadium packaging stack did not operate during the reporting period and were not sampled.

It is also important to note that stack effluent concentrations are not comparable to environmental air sampling station ECL's for regulatory compliance purposes. The ECL is a limit that applies to the receptor locations and is not applicable to effluents from mill processes on the Mill site. These stack release data are more appropriately utilized for dose modeling purposes, and dose modeling is not computed for semi-annual reporting purposes.

6.0 SURFACE WATER MONITORING

Under the License, Part 11.2 B surface water samples are required to be obtained annually from Westwater Canyon and semi-annually from Cottonwood Creek. Sediment samples from Westwater Canyon are taken in place of the Westwater Canyon surface water sample where surface water is not available for sampling. Westwater Canyon surface water was not sampled in the first or second quarter of 2015, because no water was present during this reporting period. Attempts to collect a surface water sample from Westwater Canyon will continue through the next reporting period. If no surface water is available, a sediment sample will be collected as required.

The Mill's *Environmental Protection Manual* requires that samples from Cottonwood Creek be analyzed for TDS and total suspended solids ("TSS") quarterly, and the License, Part 11.2 B requires that samples from Cottonwood Creek be analyzed for dissolved and suspended radionuclides including Gross Alpha, U-nat, Ra-226, and Th-230 semi-annually. In accordance with these requirements, Cottonwood Creek was sampled for TDS and TSS during the 1st quarter, and was sampled for TDS, TSS, and the radionuclides during the 2nd quarter.

The field data sheets for the surface water sampling events, along with graphs showing current and historic results are included as Attachment H. The results of this sampling indicate that surface water concentrations remain low and within the range of typical background levels.

7.0 SOIL SAMPLING

As mentioned in Section 1.1 above, specific changes to the individual monitoring programs has been made as a result of Amendment 7, the RFI, and e-mail correspondence with DWMRC. In accordance with the Mill's EPM and the changes specified by Amendment 7, surface soils were collected during the third quarter of 2015 reflecting the new sampling requirements. The sampling results, as well as, details regarding the changes in the surface soil sampling procedures will be discussed in the July through September Semi-Annual Effluent Report submitted to DWMRC on or before March 1, 2016.

8.0 METEOROLOGICAL MONITORING

As in prior reporting periods, an independent contractor has prepared the White Mesa Mill Semi-annual Meteorological Monitoring Report for the period of January through June 2015. This information is retained at the Mill site for agency review.

9.0 CELL 2 RADON FLUX

The July 23, 2014 letter, DWMRC stated that because "Tailings Cell 2 is no longer in operation (receiving tailings), the Division of Air Quality and the Division of Radiation Control agree that Subpart W NESHAPs requirements (40 CFR Part 61) no longer apply; however, at this phase of cell 2 closure activities, the requirements of 10 CFR Part 40, Appendix A, Criterion 6 do apply."

Further, the DWMRC July 23, 2014 letter states that "since the MILDOS-Area Models that have been run to show compliance with dose limits for releases from the Mill were based on a limit of 20 picocuries per square meter second (pCi/m^2-sec), in order to ensure compliance with previously analyzed conditions, the DWMRC will require the licensee to continue to measure the radon flux in accordance with 40 CFR 61, Appendix B, Method 115, "Monitoring for Radon-222 Emissions" (2013). The measured radon flux for Cell 2 shall not exceed a value of 20 (pCi/m^2-sec) until a new MILDOS-Area Model to analyze a higher radon flux is completed and demonstrates compliance with dose limits based on the releases from the Mill. As required by Method 115, a minimum of 100 measurements are required and shall be performed on a semi-annual basis."

Per the requirements detailed above, EFRI sampled Cell 2 radon flux in January 2015 for the January through June 2015 reporting period. The measurement was 12.1 pCi/(m^2-sec) which is below the 20.0 pCi/(m^2-sec) standard. The full data report for the January 2015 Cell 2 radon flux sampling is provided in Attachment K.

10.0 SIGNATURE

This report was prepared by Energy Fuels Resources (USA) Inc. on August 28, 2015.

Energy Fuels Resources (USA) Inc.

By:

Scott A. Bakken
Senior Director Regulatory Affairs

TABLES

Table 1- NCRP Report 94-Global Pb-210 Concentration Example

State	Pb-210 Concentration	
	uBq/M^3	uCi/ml
California	600	1.60E-14
Illinois	1500	4.10E-14
Ohio	300	8.10E-15
Massachusetts	700	1.90E-14

Table 2 - Air Monitoring Station Results U-Nat (Comparison to Limits) 1st and 2nd Quarter 2015

Monitoring Station	1st Qtr.Result (uCi/ml)	2nd Qtr.Result (uCi/ml)	Effluent Concentration Limit (ECL) (uCI/ml)	Average Percent ECL
BHV1	1.90E-15	6.00E-16	9.00E-14	1.39E+00
BHV2	5.00E-16	1.00E-16	9.00E-14	3.33E-01
BHV4	5.90E-15	1.80E-15	9.00E-14	4.28E+00
BHV5	1.00E-14	4.60E-15	9.00E-14	8.11E+00
BHV6	2.80E-14	5.30E-15	9.00E-14	1.85E+01
BHV7	6.00E-15	1.40E-15	9.00E-14	4.11E+00
BHV8	1.80E-15	5.00E-16	9.00E-14	1.28E+00

Table 3 - Air Monitoring Station Results Th-230 (Comparison to Limits) 1st and 2nd Quarter 2015

Monitoring Station	1st Qtr.Result (uCi/ml)	2nd Qtr.Result (uCi/ml)	Effluent Concentration Limit (ECL) (uCI/ml)	Average Percent ECL
BHV1	3.00E-17	2.00E-16	2.00E-14	5.75E-01
BHV2	2.00E-17	4.00E-17	2.00E-14	1.50E-01
BHV4	7.00E-17	1.00E-16	2.00E-14	4.25E-01
BHV5	5.00E-16	8.00E-16	2.00E-14	3.25E+00
BHV6	2.00E-16	2.00E-16	2.00E-14	1.00E+00
BHV7	8.00E-17	4.00E-16	2.00E-14	1.20E+00
BHV8	4.00E-17	1.00E-16	2.00E-14	3.50E-01

Table 4 - Air Monitoring Station Results Ra-226 (Comparison to Limits) 1st and 2nd Quarter 2015

Monitoring Station	1st Qtr.Result (uCi/ml)	2nd Qtr.Result (uCi/ml)	Effluent Concentration Limit (ECL) (uCI/ml)	Average Percent ECL
BHV1	6.00E-17	7.00E-16	9.00E-13	4.22E-02
BHV2	3.00E-17	1.00E-16	9.00E-13	7.22E-03
BHV4	1.00E-16	2.00E-16	9.00E-13	1.67E-02
BHV5	2.10E-15	3.70E-15	9.00E-13	3.22E-01
BHV6	4.00E-16	5.00E-16	9.00E-13	5.00E-02
BHV7	1.00E-16	1.30E-15	9.00E-13	7.78E-02
BHV8	4.00E-17	5.00E-16	9.00E-13	3.00E-02

Table 5 - Air Monitoring Station Results Pb-210 (Comparison to Limits) 1st and 2nd Quarter 2015

Monitoring Station	1st Qtr.Result (uCi/ml)	2nd Qtr.Result (uCi/ml)	Effluent Concentration Limit (ECL) (uCI/ml)	Average Percent ECL
BHV1	2.80E-14	9.00E-15	6.00E-13	3.08E+00
BHV2	2.30E-14	1.40E-14	6.00E-13	3.08E+00
BHV4	2.80E-14	1.20E-14	6.00E-13	3.33E+00
BHV5	3.10E-14	1.40E-14	6.00E-13	3.75E+00
BHV6	2.80E-14	1.70E-14	6.00E-13	3.75E+00
BHV7	2.50E-14	1.70E-14	6.00E-13	3.50E+00
BHV8	9.40E-15	9.00E-15	6.00E-13	1.53E+00

Table 6 - Air Monitoring Station Results Th-232 (Comparison to Limits) 1st and 2nd Quarter 2015

Monitoring Station	1st Qtr.Result (uCi/ml)	2nd Qtr.Result (uCi/ml)	Effluent Concentration Limit (ECL) (uCI/ml)	Average Percent ECL
BHV1	4.00E-18	1.00E-17	4.00E-15	1.75E-01
BHV2	4.00E-18	8.00E-18	4.00E-15	1.50E-01
BHV4	5.00E-19	1.00E-17	4.00E-15	1.31E-01
BHV5	3.00E-18	2.00E-17	4.00E-15	2.88E-01
BHV6	1.00E-18	1.00E-17	4.00E-15	1.38E-01
BHV7	7.00E-18	1.00E-17	4.00E-15	2.13E-01
BHV8	-6.00E-19	7.00E-18	4.00E-15	8.00E-02

Table 7 - Environmental Optically Stimulated Luminescence Dosimeter Measurements (Gamma)

Monitoring Station	1st Quarter Result (mrem)	2nd Quarter Result (mrem)	1st Quarter Result Less Background (mrem)	2nd Quarter Result Less Background (mrem)	Cumulative Semiannual Estimate (mrem)
BHV1	37.7	50.6	2.3	0.4	2.7
BHV2	38.3	52.2	2.9	2	4.9
BHV3	35.4	50.2	0	0	0
BHV4	35.6	48.1	0.2	0	0.2
BHV5	38.6	53.3	3.2	3.1	6.3
BHV6	31.0	55.1	0	4.9	4.9
BHV7	36.0	46.6	0.6	0	0.6
BHV8	34.6	46.1	0	0	0

Table 8 Stack Effluent Concentrations and Release Rates

3rd Qtr. 2014

	U-Nat uCi/cc	U-Nat. uCi/sec	Th-230 uCi/cc	Th-230 uCi/sec	Ra-226 uCi/cc	Ra-226 uCi/sec	Pb-210 uCi/cc	Pb-210 uCi/sec
South YC Dryer, Run 1	1.12E-09	6.34E-04	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
South YC Dryer, Run 2	9.09E-10	5.37E-04	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
Yellowcake Baghouse Run 1	6.34E-10	9.82E-04	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
Yellowcake Baghouse Run 2	3.70E-10	5.99E-04	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required

4th Qtr. 2014

No stack sampling was conducted as the dryers did not run. No grinding or packaging was completed during the 4th quarter.

1st Qtr. 2015

	U-Nat uCi/cc	U-Nat. uCi/sec	Th-228 uCi/cc	Th-228 uCi/sec	Th-230 uCi/cc	Th-230 uCi/sec	Th-232 uCi/cc	Th-232 uCi/sec	Pb-210 uCi/cc	Pb-210 uCi/sec	Ra-226 uCi/cc	Ra-226 uCi/sec	Ra-228 uCi/cc	Ra-228 uCi/sec
SYC Dryer Scrubber 1	2.46E-09	1.06E-03	1.07E-15	4.62E-10	1.48E-14	6.36E-09	4.46E-16	1.92E-10	3.16E-12	1.36E-06	5.99E-15	2.58E-09	NA	NA
SYC Dryer Scrubber 2	5.22E-09	2.32E-03	1.33E-15	5.90E-10	2.27E-14	1.01E-08	1.80E-16	7.98E-11	5.20E-12	2.31E-06	9.54E-15	4.24E-09	NA	NA
YC Packaging Baghouse	6.32E-11	1.07E-04	3.05E-15	5.16E-09	6.32E-14	1.07E-07	2.02E-15	3.42E-09	3.94E-14	6.66E-08	4.79E-14	8.09E-08	NA	NA

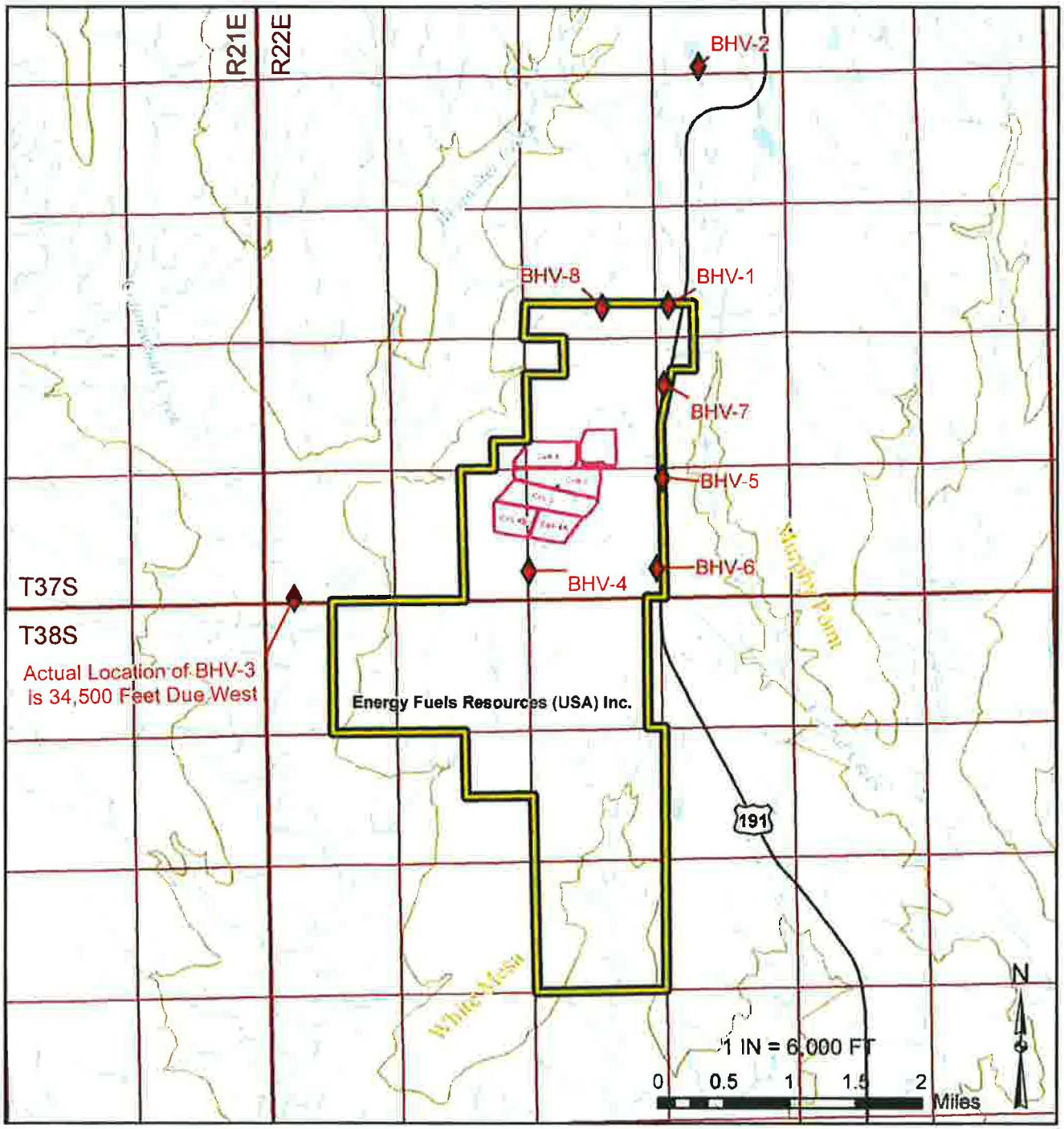
2nd Qtr. 2015

No stack sampling was conducted as the dryers did not run. No grinding or packaging was completed during the 2nd quarter.

NA - not analyzed. Pursuant to the approved Environmental Protection Manual, EFRI requested analysis of Ra-228. The COC was completed correctly, however, the laboratory inadvertently omitted this analysis at sample receipt, and therefore, there are no Ra-228 results reported. Per the letter attached in Tab G of this report, the laboratory took full responsibility for this omission.

ATTACHMENT A

HIGH VOLUME AIR MONITORING STATIONS



Legend

- Air Monitoring Station
- Property Boundary
- Tailings Cell
- Road
- Canyon Rim
- Township and Range
- Section
- Pond
- Drainage

Coordinate System: NAD 1983 StatePlane Utah South FIPS 4303 Feet

ENERGY FUELS

REVISIONS		Project:	WHITE MESA MILL	
Date:	By:	County: San Juan		State: Utah
		Location: -		

ATTACHMENT A

PARTICULATE MONITORING STATIONS

Author: areither	Date: 2/13/2015	Drafted By: areither

S:\Source\UT\WhiteMesa\MillMaps\Mill_PartMonitoring.mxd 12/13/2015 2:35:08 PM by areither

ATTACHMENT B

BHV AIR SAMPLING GRAPHS AND DATA TABLES

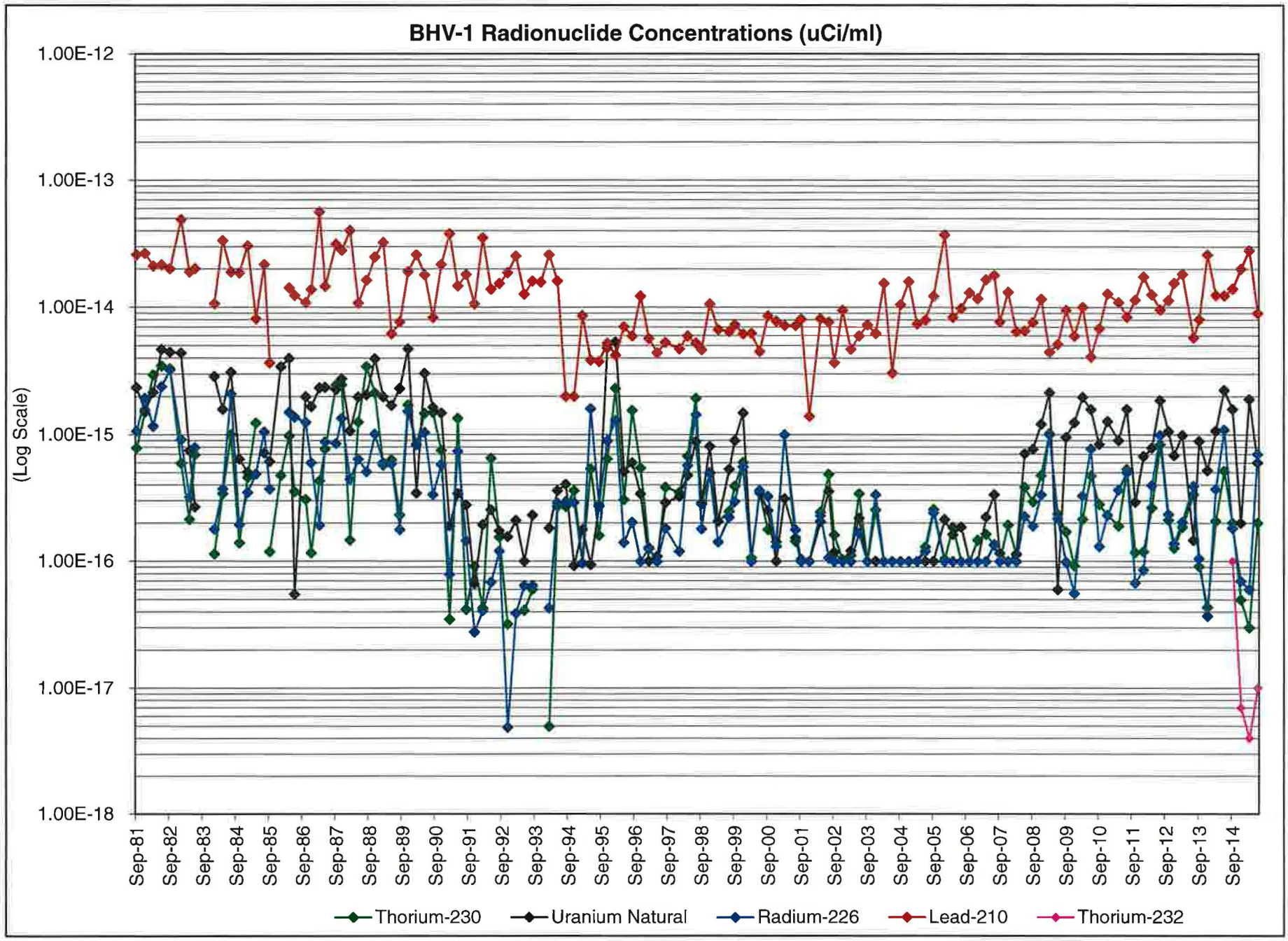
TAB 1

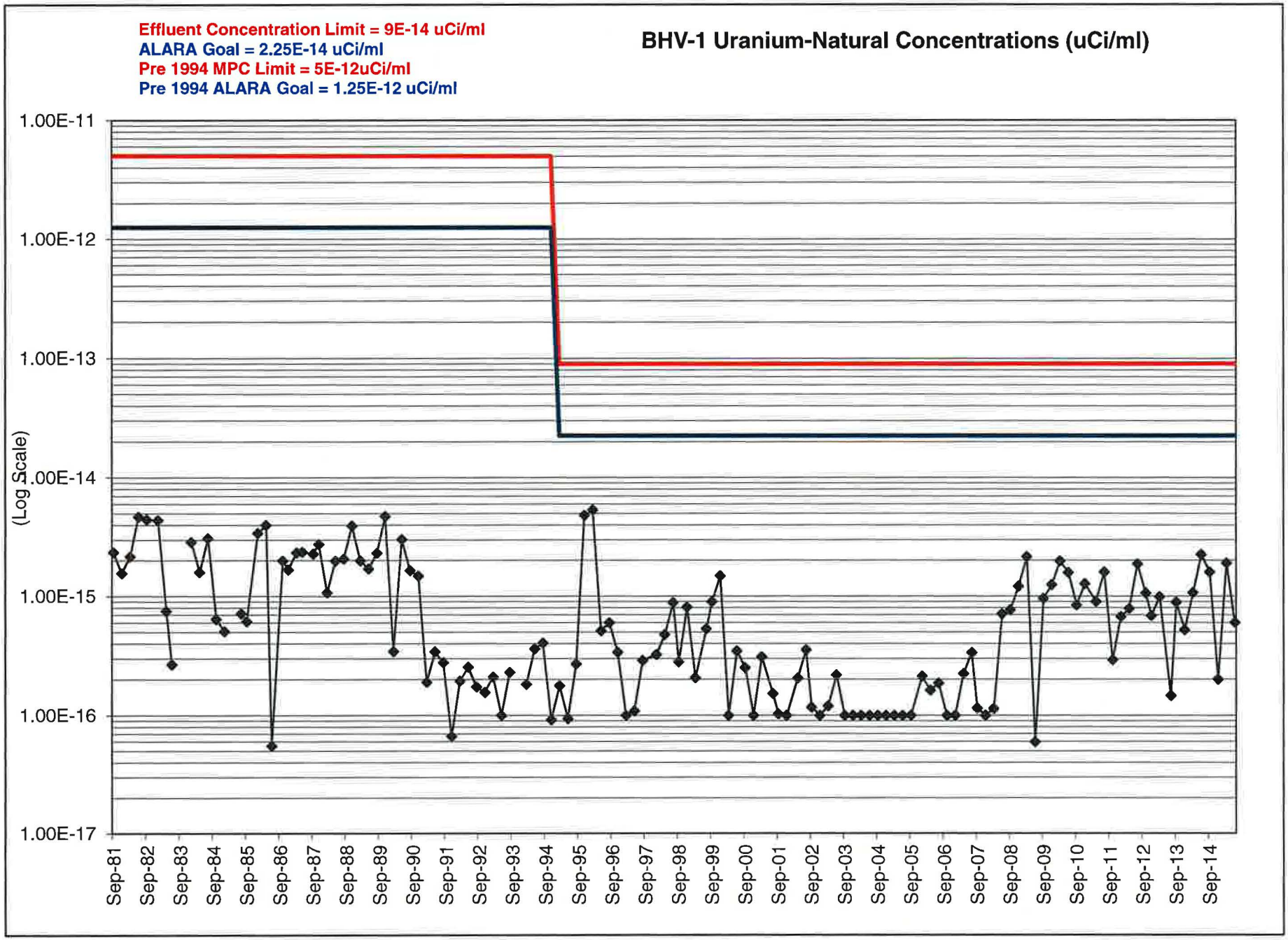
BHV-1 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-1U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-1T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-1R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-1PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-1T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981	2.35E-15	5.00E-12	1.25E-12	7.82E-16	8.00E-14	2.00E-14	1.06E-15	2.00E-12	5.00E-13	2.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/14/1981	1.56E-15	5.00E-12	1.25E-12	1.49E-15	8.00E-14	2.00E-14	1.93E-15	2.00E-12	5.00E-13	2.64E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/29/1982	2.16E-15	5.00E-12	1.25E-12	2.93E-15	8.00E-14	2.00E-14	1.16E-15	2.00E-12	5.00E-13	2.09E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1982	4.69E-15	5.00E-12	1.25E-12	3.46E-15	8.00E-14	2.00E-14	2.38E-15	2.00E-12	5.00E-13	2.14E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/27/1982	4.45E-15	5.00E-12	1.25E-12	3.29E-15	8.00E-14	2.00E-14	3.23E-15	2.00E-12	5.00E-13	1.99E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1983	4.39E-15	5.00E-12	1.25E-12	5.91E-16	8.00E-14	2.00E-14	9.14E-16	2.00E-12	5.00E-13	4.87E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/4/1983	7.51E-16	5.00E-12	1.25E-12	2.13E-16	8.00E-14	2.00E-14	3.20E-16	2.00E-12	5.00E-13	1.88E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1983	2.68E-16	5.00E-12	1.25E-12	6.92E-16	8.00E-14	2.00E-14	7.92E-16	2.00E-12	5.00E-13	2.00E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/3/1983		5.00E-12	1.25E-12		8.00E-14	2.00E-14	0.00E+00	2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1984	2.87E-15	5.00E-12	1.25E-12	1.14E-16	8.00E-14	2.00E-14	1.79E-16	2.00E-12	5.00E-13	1.06E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/2/1984	1.59E-15	5.00E-12	1.25E-12	3.40E-16	8.00E-14	2.00E-14	3.71E-16	2.00E-12	5.00E-13	3.34E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/2/1984	3.10E-15	5.00E-12	1.25E-12	1.00E-15	8.00E-14	2.00E-14	2.09E-15	2.00E-12	5.00E-13	1.88E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/1/1984	6.42E-16	5.00E-12	1.25E-12	1.39E-16	8.00E-14	2.00E-14	1.94E-16	2.00E-12	5.00E-13	1.85E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1985	5.06E-16	5.00E-12	1.25E-12	4.56E-16	8.00E-14	2.00E-14	3.49E-16	2.00E-12	5.00E-13	3.03E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1985	0.00E+00	5.00E-12	1.25E-12	1.23E-15	8.00E-14	2.00E-14	4.88E-16	2.00E-12	5.00E-13	8.06E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/1/1985	7.17E-16	5.00E-12	1.25E-12		8.00E-14	2.00E-14	1.05E-15	2.00E-12	5.00E-13	2.15E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/30/1985	6.13E-16	5.00E-12	1.25E-12	1.18E-16	8.00E-14	2.00E-14	3.71E-16	2.00E-12	5.00E-13	3.64E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1986	3.42E-15	5.00E-12	1.25E-12	4.74E-16	8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1986	3.98E-15	5.00E-12	1.25E-12	9.74E-16	8.00E-14	2.00E-14	1.50E-15	2.00E-12	5.00E-13	1.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1986	5.51E-17	5.00E-12	1.25E-12	3.52E-16	8.00E-14	2.00E-14	1.37E-15	2.00E-12	5.00E-13	1.23E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/27/1986	1.99E-15	5.00E-12	1.25E-12	3.06E-16	8.00E-14	2.00E-14	1.25E-15	2.00E-12	5.00E-13	1.08E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/15/1986	1.67E-15	5.00E-12	1.25E-12	1.16E-16	8.00E-14	2.00E-14	5.98E-16	2.00E-12	5.00E-13	1.37E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/16/1987	2.33E-15	5.00E-12	1.25E-12	4.30E-16	8.00E-14	2.00E-14	1.92E-16	2.00E-12	5.00E-13	5.59E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1987	2.36E-15	5.00E-12	1.25E-12	7.69E-16	8.00E-14	2.00E-14	8.76E-16	2.00E-12	5.00E-13	1.45E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/9/1987	2.27E-15	5.00E-12	1.25E-12	2.44E-15	8.00E-14	2.00E-14	8.51E-16	2.00E-12	5.00E-13	3.14E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/2/1987	2.75E-15	5.00E-12	1.25E-12	2.46E-15	8.00E-14	2.00E-14	1.34E-15	2.00E-12	5.00E-13	2.79E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/16/1988	1.07E-15	5.00E-12	1.25E-12	1.47E-16	8.00E-14	2.00E-14	4.44E-16	2.00E-12	5.00E-13	4.01E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/18/1988	1.98E-15	5.00E-12	1.25E-12	1.25E-15	8.00E-14	2.00E-14	6.40E-16	2.00E-12	5.00E-13	1.07E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/15/1988	2.06E-15	5.00E-12	1.25E-12	3.41E-15	8.00E-14	2.00E-14	5.08E-16	2.00E-12	5.00E-13	1.62E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/14/1988	3.94E-15	5.00E-12	1.25E-12	2.12E-15	8.00E-14	2.00E-14	1.01E-15	2.00E-12	5.00E-13	2.47E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/13/1989	1.99E-15	5.00E-12	1.25E-12	5.73E-16	8.00E-14	2.00E-14	5.99E-16	2.00E-12	5.00E-13	3.23E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/15/1989	1.70E-15	5.00E-12	1.25E-12	6.32E-16	8.00E-14	2.00E-14	5.86E-16	2.00E-12	5.00E-13	6.16E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/14/1989	2.31E-15	5.00E-12	1.25E-12	2.31E-16	8.00E-14	2.00E-14	1.77E-16	2.00E-12	5.00E-13	7.65E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/13/1989	4.72E-15	5.00E-12	1.25E-12	1.71E-15	8.00E-14	2.00E-14	1.52E-15	2.00E-12	5.00E-13	1.89E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/12/1990	3.44E-16	5.00E-12	1.25E-12	8.39E-16	8.00E-14	2.00E-14	8.31E-16	2.00E-12	5.00E-13	2.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/14/1990	3.03E-15	5.00E-12	1.25E-12	1.47E-15	8.00E-14	2.00E-14	1.04E-15	2.00E-12	5.00E-13	1.79E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/13/1990	1.64E-15	5.00E-12	1.25E-12	1.49E-15	8.00E-14	2.00E-14	3.34E-16	2.00E-12	5.00E-13	8.27E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/12/1990	1.48E-15	5.00E-12	1.25E-12	7.50E-16	8.00E-14	2.00E-14	5.80E-16	2.00E-12	5.00E-13	2.16E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/11/1991	1.90E-16	5.00E-12	1.25E-12	3.48E-17	8.00E-14	2.00E-14	7.91E-17	2.00E-12	5.00E-13	3.79E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/13/1991	3.42E-16	5.00E-12	1.25E-12	1.34E-15	8.00E-14	2.00E-14	7.39E-16	2.00E-12	5.00E-13	1.46E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/12/1991	2.77E-16	5.00E-12	1.25E-12	4.17E-17	8.00E-14	2.00E-14	1.45E-16	2.00E-12	5.00E-13	1.80E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/11/1991	6.65E-17	5.00E-12	1.25E-12	9.13E-17	8.00E-14	2.00E-14	2.77E-17	2.00E-12	5.00E-13	1.06E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/10/1992	1.94E-16	5.00E-12	1.25E-12	4.28E-17	8.00E-14	2.00E-14	4.08E-17	2.00E-12	5.00E-13	3.51E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1992	2.54E-16	5.00E-12	1.25E-12	6.49E-16	8.00E-14	2.00E-14	6.86E-17	2.00E-12	5.00E-13	1.38E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1992	1.73E-16	5.00E-12	1.25E-12	1.55E-16	8.00E-14	2.00E-14	1.20E-16	2.00E-12	5.00E-13	1.53E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/9/1992	1.56E-16	5.00E-12	1.25E-12	3.19E-17	8.00E-14	2.00E-14	4.90E-18	2.00E-12	5.00E-13	1.86E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/9/1993	2.10E-16	5.00E-12	1.25E-12		8.00E-14	2.00E-14	3.89E-17	2.00E-12	5.00E-13	2.52E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/10/1993	1.00E-16	5.00E-12	1.25E-12	4.11E-17	8.00E-14	2.00E-14	6.43E-17	2.00E-12	5.00E-13	1.26E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1993	2.30E-16	5.00E-12	1.25E-12	6.00E-17	8.00E-14	2.00E-14	6.43E-17	2.00E-12	5.00E-13	1.60E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/8/1993		5.00E-12	1.25E-12		8.00E-14	2.00E-14	0.00E+00	2.00E-12	5.00E-13	1.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-1U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-1T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-1R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-1PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-1T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
2/7/1994	1.82E-16	5.00E-12	1.25E-12	5.00E-18	8.00E-14	2.00E-14	4.30E-17	2.00E-12	5.00E-13	2.59E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/9/1994	3.60E-16	5.00E-12	1.25E-12	2.70E-16	8.00E-14	2.00E-14	2.87E-16	2.00E-12	5.00E-13	1.60E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/9/1994	4.04E-16	5.00E-12	1.25E-12	2.70E-16	8.00E-14	2.00E-14	2.94E-16	2.00E-12	5.00E-13	2.00E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/7/1994	9.18E-17	5.00E-12	1.25E-12	3.60E-16	8.00E-14	2.00E-14	2.91E-16	2.00E-12	5.00E-13	2.00E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1995	1.77E-16	9.00E-14	2.25E-14	9.70E-17	2.00E-14	5.00E-15	9.70E-17	9.00E-13	2.25E-13	8.60E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/9/1995	9.40E-17	9.00E-14	2.25E-14	5.36E-16	2.00E-14	5.00E-15	1.60E-15	9.00E-13	2.25E-13	3.84E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/9/1995	2.70E-16	9.00E-14	2.25E-14	1.60E-16	2.00E-14	5.00E-15	2.76E-16	9.00E-13	2.25E-13	3.76E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/11/1995	4.80E-15	9.00E-14	2.25E-14	6.41E-16	2.00E-14	5.00E-15	8.93E-16	9.00E-13	2.25E-13	5.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/5/1996	5.34E-15	9.00E-14	2.25E-14	2.30E-15	2.00E-14	5.00E-15	1.30E-15	9.00E-13	2.25E-13	4.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/6/1996	5.11E-16	9.00E-14	2.25E-14	3.06E-16	2.00E-14	5.00E-15	1.40E-16	9.00E-13	2.25E-13	7.03E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/5/1996	5.99E-16	9.00E-14	2.25E-14	1.55E-15	2.00E-14	5.00E-15	2.03E-16	9.00E-13	2.25E-13	5.94E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/6/1996	3.38E-16	9.00E-14	2.25E-14	5.45E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.22E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/6/1997	1.00E-16	9.00E-14	2.25E-14	1.25E-16	2.00E-14	5.00E-15	1.28E-16	9.00E-13	2.25E-13	5.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/5/1997	1.09E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.39E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/11/1997	2.88E-16	9.00E-14	2.25E-14	3.83E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	5.29E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/5/1998	3.24E-16	9.00E-14	2.25E-14	3.47E-16	2.00E-14	5.00E-15	1.19E-16	9.00E-13	2.25E-13	4.73E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/28/1998	4.75E-16	9.00E-14	2.25E-14	6.73E-16	2.00E-14	5.00E-15	5.69E-16	9.00E-13	2.25E-13	5.94E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/31/1998	8.84E-16	9.00E-14	2.25E-14	1.93E-15	2.00E-14	5.00E-15	1.43E-15	9.00E-13	2.25E-13	5.22E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/28/1998	2.81E-16	9.00E-14	2.25E-14	2.89E-16	2.00E-14	5.00E-15	1.80E-16	9.00E-13	2.25E-13	4.64E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1998	8.08E-16	9.00E-14	2.25E-14	4.93E-16	2.00E-14	5.00E-15	5.01E-16	9.00E-13	2.25E-13	1.06E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/1999	2.06E-16	9.00E-14	2.25E-14	2.06E-16	2.00E-14	5.00E-15	1.42E-16	9.00E-13	2.25E-13	6.69E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/1999	5.31E-16	9.00E-14	2.25E-14	2.47E-16	2.00E-14	5.00E-15	2.23E-16	9.00E-13	2.25E-13	6.44E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/1999	8.98E-16	9.00E-14	2.25E-14	3.90E-16	2.00E-14	5.00E-15	2.96E-16	9.00E-13	2.25E-13	7.29E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1999	1.48E-15	9.00E-14	2.25E-14	6.00E-16	2.00E-14	5.00E-15	5.57E-16	9.00E-13	2.25E-13	6.19E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/27/2000	1.00E-16	9.00E-14	2.25E-14	1.06E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.23E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/26/2000	3.47E-16	9.00E-14	2.25E-14	3.46E-16	2.00E-14	5.00E-15	3.62E-16	9.00E-13	2.25E-13	4.50E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2000	2.51E-16	9.00E-14	2.25E-14	1.78E-16	2.00E-14	5.00E-15	3.25E-16	9.00E-13	2.25E-13	8.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/26/2000	1.00E-16	9.00E-14	2.25E-14	1.42E-16	2.00E-14	5.00E-15	1.31E-16	9.00E-13	2.25E-13	7.77E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/26/2001	3.10E-16	9.00E-14	2.25E-14	1.00E-15	2.00E-14	5.00E-15	1.00E-15	9.00E-13	2.25E-13	7.19E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/29/2001	1.52E-16	9.00E-14	2.25E-14	1.44E-16	2.00E-14	5.00E-15	1.77E-16	9.00E-13	2.25E-13	7.21E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/24/2001	1.03E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.09E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2001	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.39E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/1/2002	2.05E-16	9.00E-14	2.25E-14	2.44E-16	2.00E-14	5.00E-15	2.29E-16	9.00E-13	2.25E-13	8.15E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/1/2002	3.55E-16	9.00E-14	2.25E-14	4.85E-16	2.00E-14	5.00E-15	1.06E-16	9.00E-13	2.25E-13	7.65E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2002	1.17E-16	9.00E-14	2.25E-14	1.61E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2002	1.00E-16	9.00E-14	2.25E-14	1.03E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.46E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2003	1.20E-16	9.00E-14	2.25E-14	1.12E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2003	2.18E-16	9.00E-14	2.25E-14	3.40E-16	2.00E-14	5.00E-15	1.67E-16	9.00E-13	2.25E-13	5.96E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/29/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.28E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/29/2003	1.00E-16	9.00E-14	2.25E-14	2.54E-16	2.00E-14	5.00E-15	3.35E-16	9.00E-13	2.25E-13	6.25E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.54E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.04E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.05E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.59E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/28/2005	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.42E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/29/2005	1.00E-16	9.00E-14	2.25E-14	1.30E-16	2.00E-14	5.00E-15	1.20E-16	9.00E-13	2.25E-13	7.94E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2005	1.00E-16	9.00E-14	2.25E-14	2.56E-16	2.00E-14	5.00E-15	2.42E-16	9.00E-13	2.25E-13	1.22E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2006	2.13E-16	9.00E-14	2.25E-14	1.04E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.73E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2006	1.62E-16	9.00E-14	2.25E-14	1.86E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.36E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/2006	1.86E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.77E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-1U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-1T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-1R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-1PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-1T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
10/2/2006	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.30E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/1/2007	1.00E-16	9.00E-14	2.25E-14	1.47E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.17E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/2/2007	2.23E-16	9.00E-14	2.25E-14	1.63E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.65E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2007	3.35E-16	9.00E-14	2.25E-14	1.34E-16	2.00E-14	5.00E-15	1.36E-16	9.00E-13	2.25E-13	1.78E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2007	1.15E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2007	1.00E-16	9.00E-14	2.25E-14	1.93E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2008	1.14E-16	9.00E-14	2.25E-14	1.13E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.44E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2008	7.09E-16	9.00E-14	2.25E-14	3.83E-16	2.00E-14	5.00E-15	2.27E-16	9.00E-13	2.25E-13	6.52E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2008	7.69E-16	9.00E-14	2.25E-14	2.94E-16	2.00E-14	5.00E-15	1.90E-16	9.00E-13	2.25E-13	7.64E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2008	1.21E-15	9.00E-14	2.25E-14	4.76E-16	2.00E-14	5.00E-15	3.34E-16	9.00E-13	2.25E-13	1.16E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/15/2009	2.14E-15	9.00E-14	2.25E-14	1.02E-15	2.00E-14	5.00E-15	1.00E-15	9.00E-13	2.25E-13	4.44E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/15/2009	5.97E-17	9.00E-14	2.25E-14	2.35E-16	2.00E-14	5.00E-15	2.18E-16	9.00E-13	2.25E-13	5.13E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/15/2009	9.55E-16	9.00E-14	2.25E-14	1.71E-16	2.00E-14	5.00E-15	9.87E-17	9.00E-13	2.25E-13	9.47E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/15/2009	1.24E-15	9.00E-14	2.25E-14	9.25E-17	2.00E-14	5.00E-15	5.60E-17	9.00E-13	2.25E-13	5.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2010	1.97E-15	9.00E-14	2.25E-14	2.15E-16	2.00E-14	5.00E-15	3.27E-16	9.00E-13	2.25E-13	1.00E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2010	1.58E-15	9.00E-14	2.25E-14	4.71E-16	2.00E-14	5.00E-15	7.70E-16	9.00E-13	2.25E-13	4.07E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2010	8.42E-16	9.00E-14	2.25E-14	2.80E-16	2.00E-14	5.00E-15	1.31E-16	9.00E-13	2.25E-13	6.80E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2010	1.27E-15	9.00E-14	2.25E-14	2.32E-16	2.00E-14	5.00E-15	2.30E-16	9.00E-13	2.25E-13	1.27E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/4/2011	9.01E-16	9.00E-14	2.25E-14	1.90E-16	2.00E-14	5.00E-15	3.64E-16	9.00E-13	2.25E-13	1.09E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/4/2011	1.59E-15	9.00E-14	2.25E-14	5.31E-16	2.00E-14	5.00E-15	4.99E-16	9.00E-13	2.25E-13	8.38E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/3/2011	2.92E-16	9.00E-14	2.25E-14	1.17E-16	2.00E-14	5.00E-15	6.76E-17	9.00E-13	2.25E-13	1.14E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2012	6.73E-16	9.00E-14	2.25E-14	1.19E-16	2.00E-14	5.00E-15	8.58E-17	9.00E-13	2.25E-13	1.73E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2012	7.87E-16	9.00E-14	2.25E-14	2.64E-16	2.00E-14	5.00E-15	3.95E-16	9.00E-13	2.25E-13	1.25E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2012	1.86E-15	9.00E-14	2.25E-14	8.33E-16	2.00E-14	5.00E-15	9.85E-16	9.00E-13	2.25E-13	9.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/1/2012	1.06E-15	9.00E-14	2.25E-14	2.11E-16	2.00E-14	5.00E-15	2.34E-16	9.00E-13	2.25E-13	1.13E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2012	6.86E-16	9.00E-14	2.25E-14	1.27E-16	2.00E-14	5.00E-15	1.38E-16	9.00E-13	2.25E-13	1.54E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/25/2013	9.91E-16	9.00E-14	2.25E-14	1.86E-16	2.00E-14	5.00E-15	2.04E-16	9.00E-13	2.25E-13	1.82E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2013	1.46E-16	9.00E-14	2.25E-14	3.34E-16	2.00E-14	5.00E-15	3.91E-16	9.00E-13	2.25E-13	5.78E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2013	8.89E-16	9.00E-14	2.25E-14	9.13E-17	2.00E-14	5.00E-15	1.05E-16	9.00E-13	2.25E-13	8.00E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2013	5.21E-16	9.00E-14	2.25E-14	4.34E-17	2.00E-14	5.00E-15	3.70E-17	9.00E-13	2.25E-13	2.59E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2014	1.07E-15	9.00E-14	2.25E-14	2.07E-16	2.00E-14	5.00E-15	3.69E-16	9.00E-13	2.25E-13	1.24E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2014	2.24E-15	9.00E-14	2.25E-14	5.14E-16	2.00E-14	5.00E-15	1.09E-15	9.00E-13	2.25E-13	1.23E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2014	1.59E-15	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.39E-14	6.00E-13	1.50E-13	1.00E-16	4.00E-15	1.00E-15
12/29/2014	2.00E-16	9.00E-14	2.25E-14	5.00E-17	2.00E-14	5.00E-15	7.00E-17	9.00E-13	2.25E-13	2.00E-14	6.00E-13	1.50E-13	7.00E-18	4.00E-15	1.00E-15
3/30/2015	1.90E-15	9.00E-14	2.25E-14	3.00E-17	2.00E-14	5.00E-15	6.00E-17	9.00E-13	2.25E-13	2.80E-14	6.00E-13	1.50E-13	4.00E-18	4.00E-15	1.00E-15
6/29/2015	6.00E-16	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	7.00E-16	9.00E-13	2.25E-13	9.00E-15	6.00E-13	1.50E-13	1.00E-17	4.00E-15	1.00E-15


BHV-1 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Thorium-230
Uranium Natural
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-1 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
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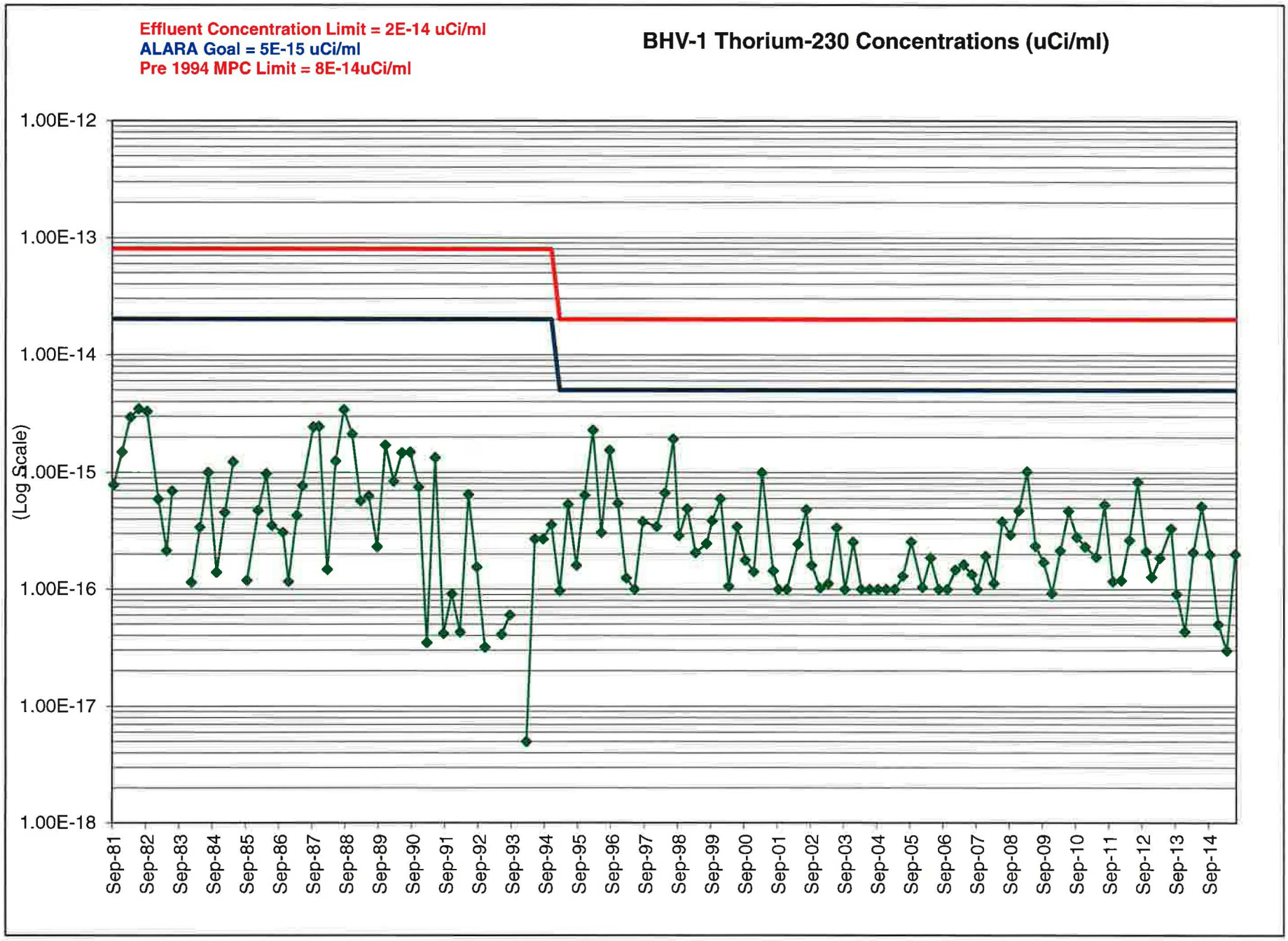
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-1 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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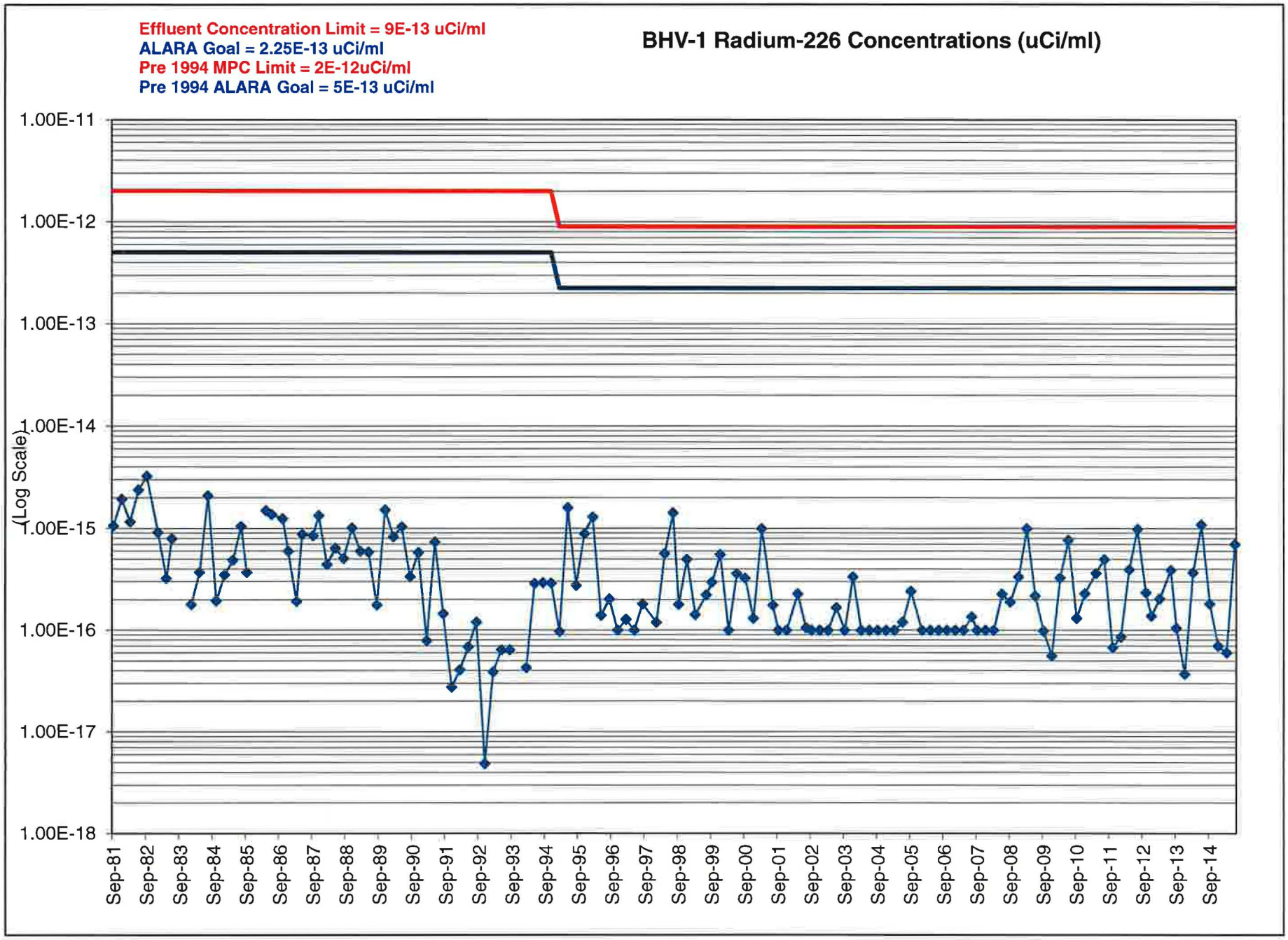
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-1 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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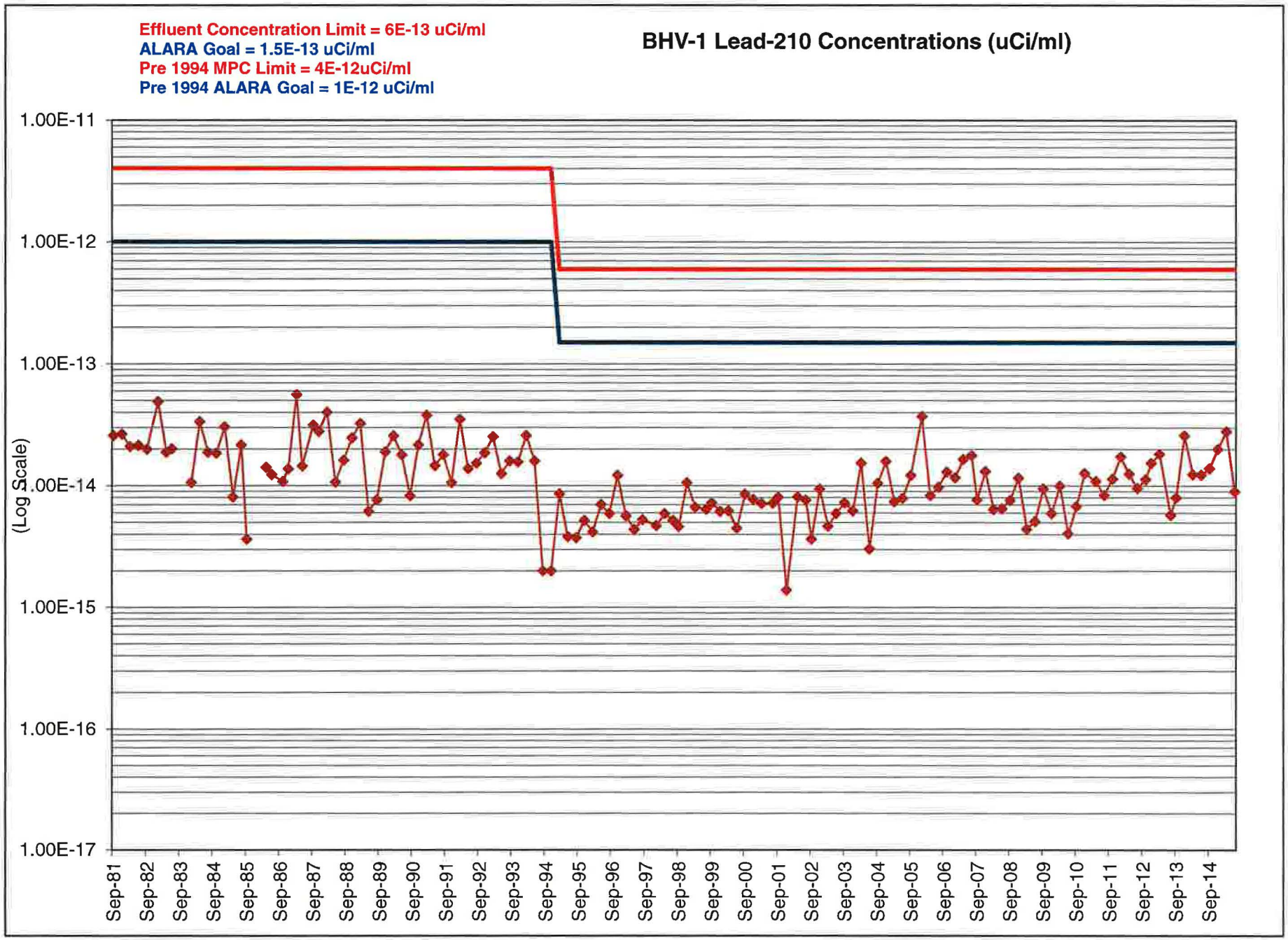
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-1 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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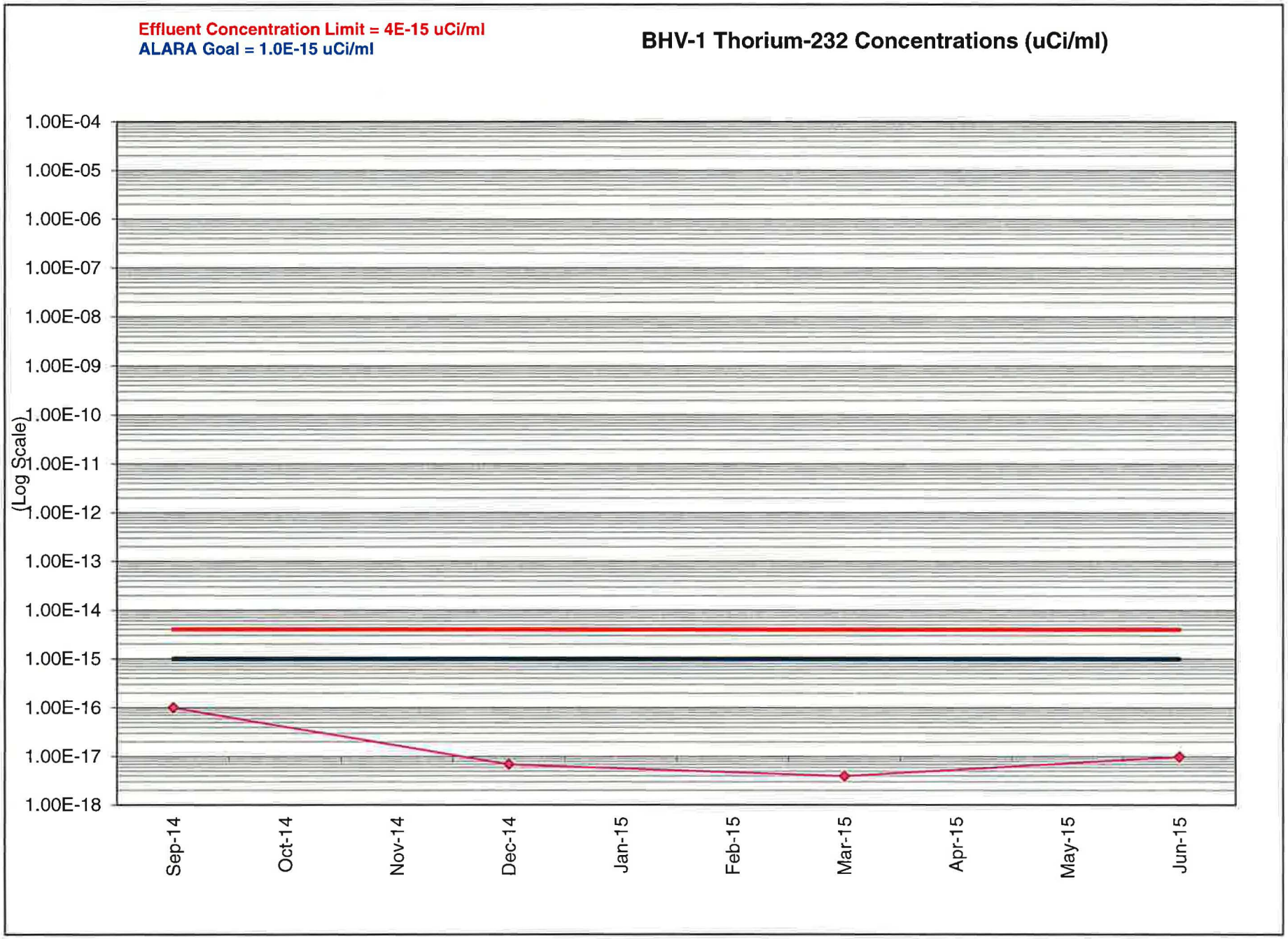
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-1 Thorium-232 Concentrations (uCi/ml)
(Log Scale)
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
1.00E-09
1.00E-10
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15

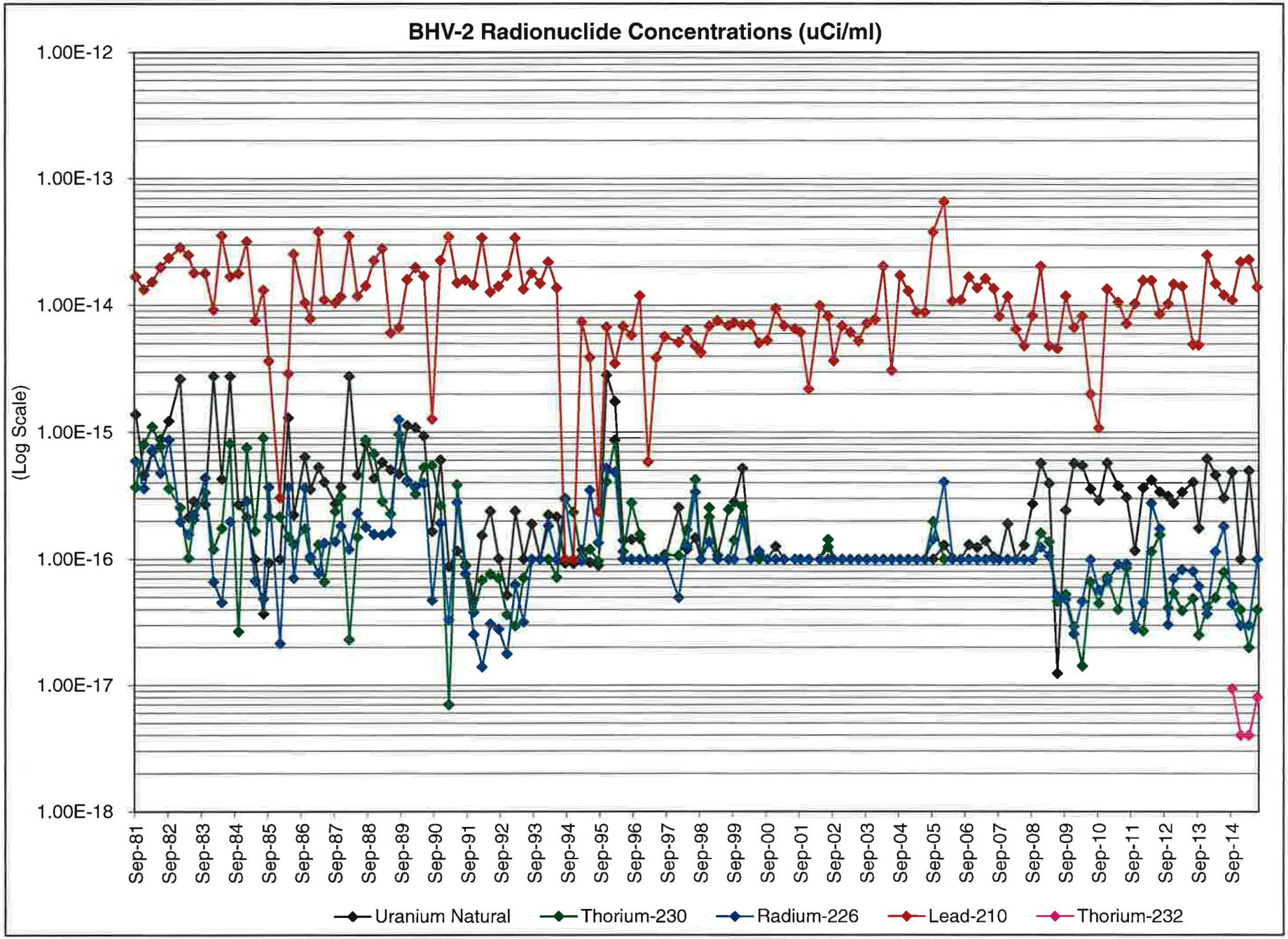
TAB 2

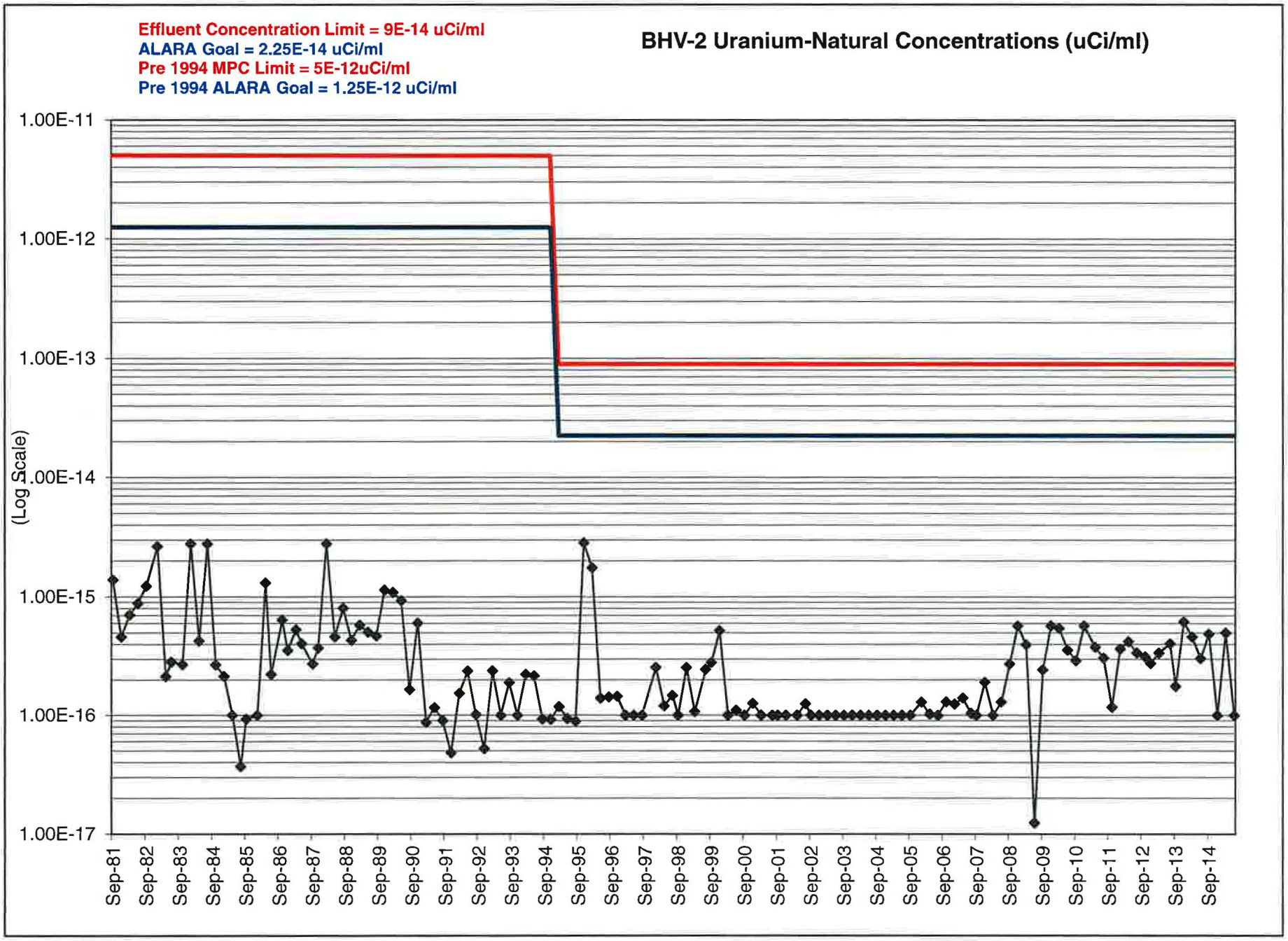
BHV-2 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-2U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-2T230	Effluent Concentration Limit =	9E-15 uCi/ml	BHV-2R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-2PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-2T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981	1.39E-15	5.00E-12	1.25E-12	3.69E-16	8.00E-14	2.00E-14	5.92E-16	2.00E-12	5.00E-13	1.67E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/14/1981	4.62E-16	5.00E-12	1.25E-12	8.03E-16	8.00E-14	2.00E-14	3.62E-16	2.00E-12	5.00E-13	1.33E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/29/1982	7.07E-16	5.00E-12	1.25E-12	1.10E-15	8.00E-14	2.00E-14	7.27E-16	2.00E-12	5.00E-13	1.52E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1982	8.84E-16	5.00E-12	1.25E-12	7.73E-16	8.00E-14	2.00E-14	4.78E-16	2.00E-12	5.00E-13	1.98E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/27/1982	1.23E-15	5.00E-12	1.25E-12	3.60E-16	8.00E-14	2.00E-14	8.73E-16	2.00E-12	5.00E-13	2.35E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1983	2.64E-15	5.00E-12	1.25E-12	2.55E-16	8.00E-14	2.00E-14	1.98E-16	2.00E-12	5.00E-13	2.85E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/4/1983	2.14E-16	5.00E-12	1.25E-12	1.02E-16	8.00E-14	2.00E-14	1.57E-16	2.00E-12	5.00E-13	2.48E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1983	2.85E-16	5.00E-12	1.25E-12	2.06E-16	8.00E-14	2.00E-14	2.24E-16	2.00E-12	5.00E-13	1.79E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/3/1983	2.70E-16	5.00E-12	1.25E-12	3.36E-16	8.00E-14	2.00E-14	4.37E-16	2.00E-12	5.00E-13	1.78E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1984	2.78E-15	5.00E-12	1.25E-12	1.20E-16	8.00E-14	2.00E-14	6.64E-17	2.00E-12	5.00E-13	9.14E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/2/1984	4.28E-16	5.00E-12	1.25E-12	1.75E-16	8.00E-14	2.00E-14	4.57E-17	2.00E-12	5.00E-13	3.55E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/2/1984	2.78E-15	5.00E-12	1.25E-12	8.12E-16	8.00E-14	2.00E-14	1.98E-16	2.00E-12	5.00E-13	1.68E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/1/1984	2.69E-16	5.00E-12	1.25E-12	2.66E-17	8.00E-14	2.00E-14	0.00E+00	2.00E-12	5.00E-13	1.77E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1985	2.15E-16	5.00E-12	1.25E-12	7.55E-16	8.00E-14	2.00E-14	2.87E-16	2.00E-12	5.00E-13	3.19E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1985	1.00E-16	5.00E-12	1.25E-12	1.67E-16	8.00E-14	2.00E-14	6.75E-17	2.00E-12	5.00E-13	7.56E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/1/1985	3.70E-17	5.00E-12	1.25E-12	9.00E-16	8.00E-14	2.00E-14	4.90E-17	2.00E-12	5.00E-13	1.31E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/30/1985	9.32E-17	5.00E-12	1.25E-12	2.18E-16	8.00E-14	2.00E-14	3.71E-16	2.00E-12	5.00E-13	3.64E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1986	1.00E-16	5.00E-12	1.25E-12	2.16E-16	8.00E-14	2.00E-14	2.15E-17	2.00E-12	5.00E-13	3.04E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1986	1.31E-15	5.00E-12	1.25E-12	1.50E-16	8.00E-14	2.00E-14	3.71E-16	2.00E-12	5.00E-13	2.90E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1986	2.23E-16	5.00E-12	1.25E-12	1.32E-16	8.00E-14	2.00E-14	7.09E-17	2.00E-12	5.00E-13	2.53E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/27/1986	6.41E-16	5.00E-12	1.25E-12	1.74E-16	8.00E-14	2.00E-14	3.67E-16	2.00E-12	5.00E-13	1.04E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/15/1986	3.56E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.05E-16	2.00E-12	5.00E-13	7.81E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/16/1987	5.31E-16	5.00E-12	1.25E-12	1.30E-16	8.00E-14	2.00E-14	7.74E-17	2.00E-12	5.00E-13	3.80E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1987	4.06E-16	5.00E-12	1.25E-12	6.63E-17	8.00E-14	2.00E-14	1.34E-16	2.00E-12	5.00E-13	1.10E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/9/1987	2.74E-16	5.00E-12	1.25E-12	2.38E-16	8.00E-14	2.00E-14	1.38E-16	2.00E-12	5.00E-13	1.04E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/2/1987	3.73E-16	5.00E-12	1.25E-12	3.11E-16	8.00E-14	2.00E-14	1.83E-16	2.00E-12	5.00E-13	1.17E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/16/1988	2.78E-15	5.00E-12	1.25E-12	2.31E-17	8.00E-14	2.00E-14	1.20E-16	2.00E-12	5.00E-13	3.55E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/18/1988	4.63E-16	5.00E-12	1.25E-12	1.49E-16	8.00E-14	2.00E-14	2.30E-16	2.00E-12	5.00E-13	1.18E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/15/1988	8.06E-16	5.00E-12	1.25E-12	8.69E-16	8.00E-14	2.00E-14	1.80E-16	2.00E-12	5.00E-13	1.42E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/14/1988	4.34E-16	5.00E-12	1.25E-12	6.76E-16	8.00E-14	2.00E-14	1.57E-16	2.00E-12	5.00E-13	2.25E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/13/1989	5.80E-16	5.00E-12	1.25E-12	2.85E-16	8.00E-14	2.00E-14	1.55E-16	2.00E-12	5.00E-13	2.80E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/15/1989	5.06E-16	5.00E-12	1.25E-12	2.28E-16	8.00E-14	2.00E-14	1.63E-16	2.00E-12	5.00E-13	6.05E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/14/1989	4.71E-16	5.00E-12	1.25E-12	9.60E-16	8.00E-14	2.00E-14	1.26E-15	2.00E-12	5.00E-13	6.65E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/13/1989	1.14E-15	5.00E-12	1.25E-12	4.08E-16	8.00E-14	2.00E-14	4.18E-16	2.00E-12	5.00E-13	1.59E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/12/1990	1.09E-15	5.00E-12	1.25E-12	3.25E-16	8.00E-14	2.00E-14	3.74E-16	2.00E-12	5.00E-13	1.98E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/14/1990	9.32E-16	5.00E-12	1.25E-12	5.27E-16	8.00E-14	2.00E-14	3.97E-16	2.00E-12	5.00E-13	1.69E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/13/1990	1.66E-16	5.00E-12	1.25E-12	5.49E-16	8.00E-14	2.00E-14	4.75E-17	2.00E-12	5.00E-13	1.27E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/12/1990	6.05E-16	5.00E-12	1.25E-12	2.64E-16	8.00E-14	2.00E-14	1.93E-16	2.00E-12	5.00E-13	2.25E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/11/1991	8.72E-17	5.00E-12	1.25E-12	7.00E-18	8.00E-14	2.00E-14	3.33E-17	2.00E-12	5.00E-13	3.49E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/13/1991	1.16E-16	5.00E-12	1.25E-12	3.86E-16	8.00E-14	2.00E-14	2.80E-16	2.00E-12	5.00E-13	1.50E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/12/1991	9.02E-17	5.00E-12	1.25E-12	8.82E-17	8.00E-14	2.00E-14	7.65E-17	2.00E-12	5.00E-13	1.58E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/11/1991	4.81E-17	5.00E-12	1.25E-12	3.82E-17	8.00E-14	2.00E-14	2.54E-17	2.00E-12	5.00E-13	1.45E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/10/1992	1.54E-16	5.00E-12	1.25E-12	6.82E-17	8.00E-14	2.00E-14	1.40E-17	2.00E-12	5.00E-13	3.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1992	2.38E-16	5.00E-12	1.25E-12	7.63E-17	8.00E-14	2.00E-14	3.07E-17	2.00E-12	5.00E-13	1.27E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1992	1.01E-16	5.00E-12	1.25E-12	7.07E-17	8.00E-14	2.00E-14	2.80E-17	2.00E-12	5.00E-13	1.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/9/1992	5.20E-17	5.00E-12	1.25E-12	3.65E-17	8.00E-14	2.00E-14	1.78E-17	2.00E-12	5.00E-13	1.71E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/9/1993	2.39E-16	5.00E-12	1.25E-12	2.97E-17	8.00E-14	2.00E-14	6.31E-17	2.00E-12	5.00E-13	3.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/10/1993	1.00E-16	5.00E-12	1.25E-12	7.11E-17	8.00E-14	2.00E-14	3.19E-17	2.00E-12	5.00E-13	1.34E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1993	1.90E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.80E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-2U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-2T230	Effluent Concentration Limit =	9E-15 uCi/ml	BHV-2R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-2PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-2T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
11/8/1993	1.00E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.49E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1994	2.23E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.84E-16	2.00E-12	5.00E-13	2.19E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/9/1994	2.16E-16	5.00E-12	1.25E-12	7.20E-17	8.00E-14	2.00E-14	9.89E-17	2.00E-12	5.00E-13	1.37E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/9/1994	9.29E-17	5.00E-12	1.25E-12	2.96E-16	8.00E-14	2.00E-14	3.04E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/7/1994	9.21E-17	5.00E-12	1.25E-12	2.35E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1995	1.18E-16	9.00E-14	2.25E-14	9.70E-17	2.00E-14	5.00E-15	9.70E-17	9.00E-13	2.25E-13	7.42E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/9/1995	9.40E-17	9.00E-14	2.25E-14	1.20E-16	2.00E-14	5.00E-15	3.50E-16	9.00E-13	2.25E-13	3.90E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/9/1995	8.90E-17	9.00E-14	2.25E-14	9.67E-17	2.00E-14	5.00E-15	1.35E-16	9.00E-13	2.25E-13	2.38E-16	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/11/1995	2.83E-15	9.00E-14	2.25E-14	4.09E-16	2.00E-14	5.00E-15	5.23E-16	9.00E-13	2.25E-13	6.77E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/5/1996	1.75E-15	9.00E-14	2.25E-14	8.66E-16	2.00E-14	5.00E-15	4.86E-16	9.00E-13	2.25E-13	3.50E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/6/1996	1.40E-16	9.00E-14	2.25E-14	1.15E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.85E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/5/1996	1.43E-16	9.00E-14	2.25E-14	2.78E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.83E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/6/1996	1.45E-16	9.00E-14	2.25E-14	1.57E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.19E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/6/1997	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.84E-16	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/5/1997	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.89E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/11/1997	1.00E-16	9.00E-14	2.25E-14	1.09E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.69E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/5/1998	2.55E-16	9.00E-14	2.25E-14	1.07E-16	2.00E-14	5.00E-15	5.00E-17	9.00E-13	2.25E-13	5.11E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/28/1998	1.20E-16	9.00E-14	2.25E-14	1.71E-16	2.00E-14	5.00E-15	1.28E-16	9.00E-13	2.25E-13	6.40E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/31/1998	1.47E-16	9.00E-14	2.25E-14	4.24E-16	2.00E-14	5.00E-15	3.39E-16	9.00E-13	2.25E-13	4.80E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/28/1998	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.26E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1998	2.54E-16	9.00E-14	2.25E-14	2.15E-16	2.00E-14	5.00E-15	1.38E-16	9.00E-13	2.25E-13	6.88E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/1999	1.07E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.61E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/1999	2.46E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/1999	2.81E-16	9.00E-14	2.25E-14	1.41E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.35E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1999	5.20E-16	9.00E-14	2.25E-14	2.60E-16	2.00E-14	5.00E-15	2.01E-16	9.00E-13	2.25E-13	7.00E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/27/2000	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.12E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/26/2000	1.10E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.16E-16	9.00E-13	2.25E-13	5.07E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2000	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.31E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/26/2000	1.26E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.45E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/26/2001	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2001	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.56E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/24/2001	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.16E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2001	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/1/2002	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/1/2002	1.25E-16	9.00E-14	2.25E-14	1.43E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.25E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2002	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.69E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2002	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.91E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.16E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.27E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/29/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.23E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/29/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.80E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.04E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.09E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.73E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.30E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/28/2005	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.88E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/29/2005	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.85E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2005	1.00E-16	9.00E-14	2.25E-14	1.99E-16	2.00E-14	5.00E-15	1.44E-16	9.00E-13	2.25E-13	3.81E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2006	1.29E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	4.08E-16	9.00E-13	2.25E-13	6.58E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-2U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-2T230	Effluent Concentration Limit =	9E-15 uCi/ml	BHV-2R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-2PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-2T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
4/3/2006	1.02E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.08E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/2006	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/2/2006	1.30E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.68E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/1/2007	1.24E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.38E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/2/2007	1.40E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.63E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2007	1.04E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.36E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2007	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.24E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2007	1.91E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.18E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/30/2008	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.49E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2008	1.29E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.82E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2008	2.73E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.30E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2008	5.71E-16	9.00E-14	2.25E-14	1.61E-16	2.00E-14	5.00E-15	1.25E-16	9.00E-13	2.25E-13	2.04E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/15/2009	3.96E-16	9.00E-14	2.25E-14	1.38E-16	2.00E-14	5.00E-15	1.07E-16	9.00E-13	2.25E-13	4.81E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/15/2009	1.24E-17	9.00E-14	2.25E-14	4.64E-17	2.00E-14	5.00E-15	5.11E-17	9.00E-13	2.25E-13	4.58E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/15/2009	2.43E-16	9.00E-14	2.25E-14	5.28E-17	2.00E-14	5.00E-15	4.84E-17	9.00E-13	2.25E-13	1.19E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/15/2009	5.72E-16	9.00E-14	2.25E-14	2.94E-17	2.00E-14	5.00E-15	2.57E-17	9.00E-13	2.25E-13	6.70E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2010	5.47E-16	9.00E-14	2.25E-14	1.42E-17	2.00E-14	5.00E-15	4.66E-17	9.00E-13	2.25E-13	8.24E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2010	3.58E-16	9.00E-14	2.25E-14	6.64E-17	2.00E-14	5.00E-15	9.90E-17	9.00E-13	2.25E-13	2.01E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2010	2.91E-16	9.00E-14	2.25E-14	4.48E-17	2.00E-14	5.00E-15	5.72E-17	9.00E-13	2.25E-13	1.08E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2010	5.73E-16	9.00E-14	2.25E-14	7.24E-17	2.00E-14	5.00E-15	6.76E-17	9.00E-13	2.25E-13	1.35E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/4/2011	3.79E-16	9.00E-14	2.25E-14	4.01E-17	2.00E-14	5.00E-15	9.11E-17	9.00E-13	2.25E-13	1.06E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/4/2011	3.07E-16	9.00E-14	2.25E-14	8.54E-17	2.00E-14	5.00E-15	9.21E-17	9.00E-13	2.25E-13	7.21E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/3/2011	1.17E-16	9.00E-14	2.25E-14	3.04E-17	2.00E-14	5.00E-15	2.81E-17	9.00E-13	2.25E-13	1.03E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2012	3.65E-16	9.00E-14	2.25E-14	2.72E-17	2.00E-14	5.00E-15	4.54E-17	9.00E-13	2.25E-13	1.58E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2012	4.22E-16	9.00E-14	2.25E-14	1.15E-16	2.00E-14	5.00E-15	2.77E-16	9.00E-13	2.25E-13	1.58E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2012	3.39E-16	9.00E-14	2.25E-14	1.56E-16	2.00E-14	5.00E-15	1.74E-16	9.00E-13	2.25E-13	8.60E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/1/2012	3.13E-16	9.00E-14	2.25E-14	4.13E-17	2.00E-14	5.00E-15	3.04E-17	9.00E-13	2.25E-13	1.03E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2012	2.76E-16	9.00E-14	2.25E-14	5.41E-17	2.00E-14	5.00E-15	7.05E-17	9.00E-13	2.25E-13	1.48E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/25/2013	3.38E-16	9.00E-14	2.25E-14	3.94E-17	2.00E-14	5.00E-15	8.32E-17	9.00E-13	2.25E-13	1.42E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2013	4.06E-16	9.00E-14	2.25E-14	4.89E-17	2.00E-14	5.00E-15	8.06E-17	9.00E-13	2.25E-13	4.93E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2013	1.76E-16	9.00E-14	2.25E-14	2.52E-17	2.00E-14	5.00E-15	6.13E-17	9.00E-13	2.25E-13	4.90E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2013	6.20E-16	9.00E-14	2.25E-14	4.19E-17	2.00E-14	5.00E-15	3.72E-17	9.00E-13	2.25E-13	2.50E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2014	4.63E-16	9.00E-14	2.25E-14	4.97E-17	2.00E-14	5.00E-15	1.15E-16	9.00E-13	2.25E-13	1.49E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2014	3.04E-16	9.00E-14	2.25E-14	7.92E-17	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.21E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2014	4.89E-16	9.00E-14	2.25E-14	6.01E-17	2.00E-14	5.00E-15	4.47E-17	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	9.35E-18	4.00E-15	1.00E-15
12/29/2014	1.00E-16	9.00E-14	2.25E-14	4.00E-17	2.00E-14	5.00E-15	3.00E-17	9.00E-13	2.25E-13	2.20E-14	6.00E-13	1.50E-13	4.00E-18	4.00E-15	1.00E-15
3/30/2015	5.00E-16	9.00E-14	2.25E-14	2.00E-17	2.00E-14	5.00E-15	3.00E-17	9.00E-13	2.25E-13	2.30E-14	6.00E-13	1.50E-13	4.00E-18	4.00E-15	1.00E-15
6/29/2015	1.00E-16	9.00E-14	2.25E-14	4.00E-17	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.40E-14	6.00E-13	1.50E-13	8.00E-18	4.00E-15	1.00E-15


BHV-2 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-2 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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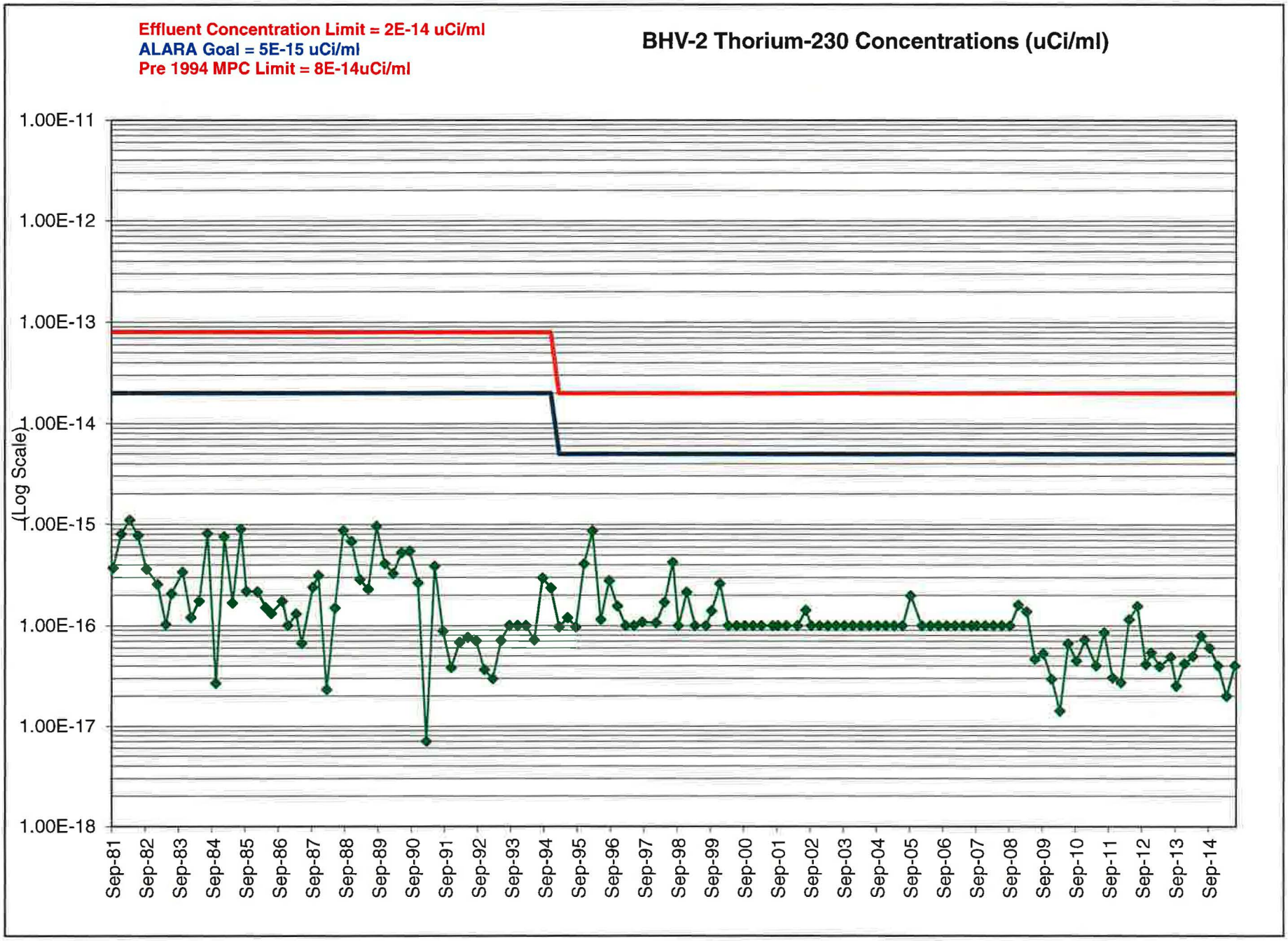
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-2 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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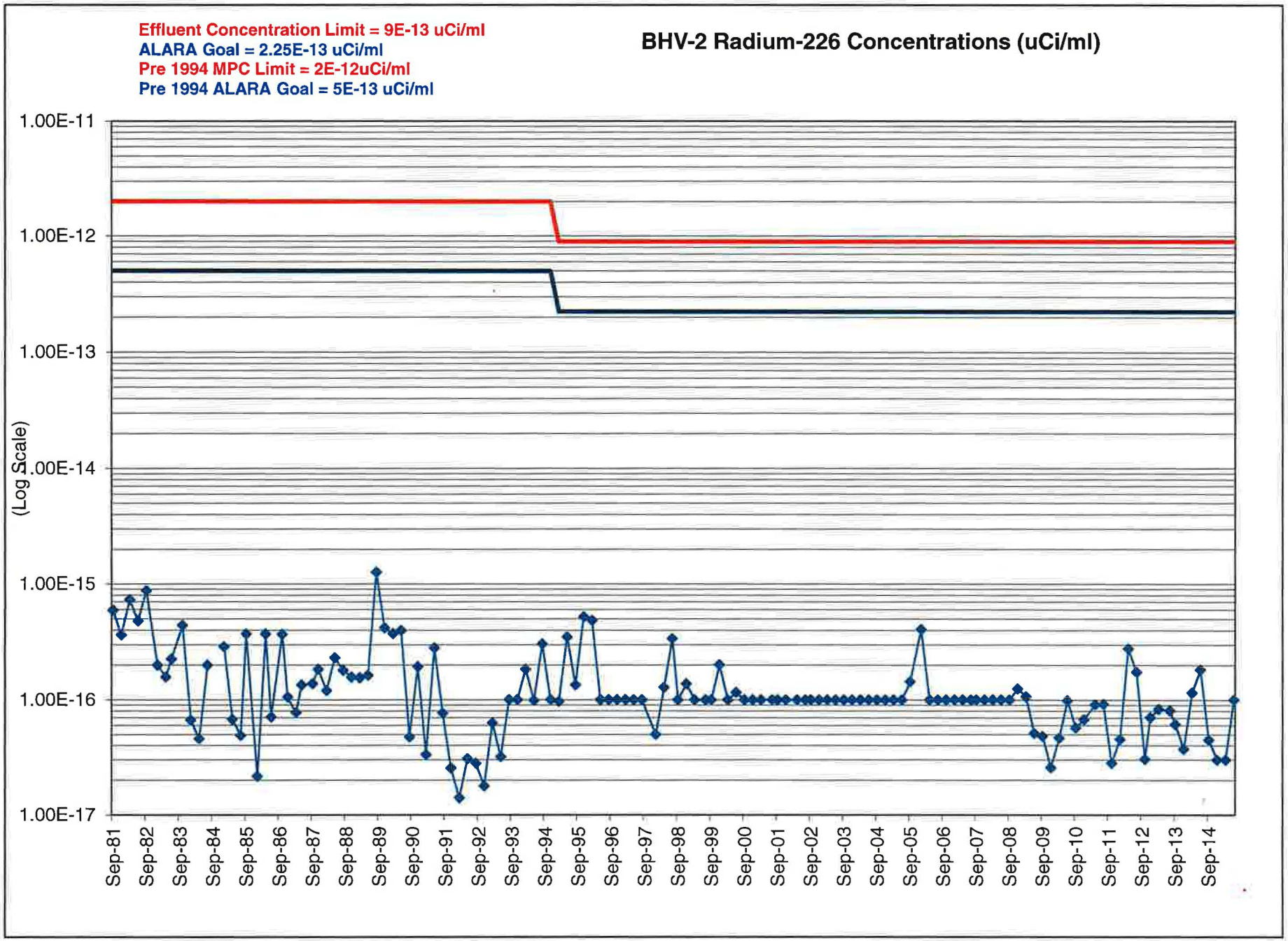
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-2 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
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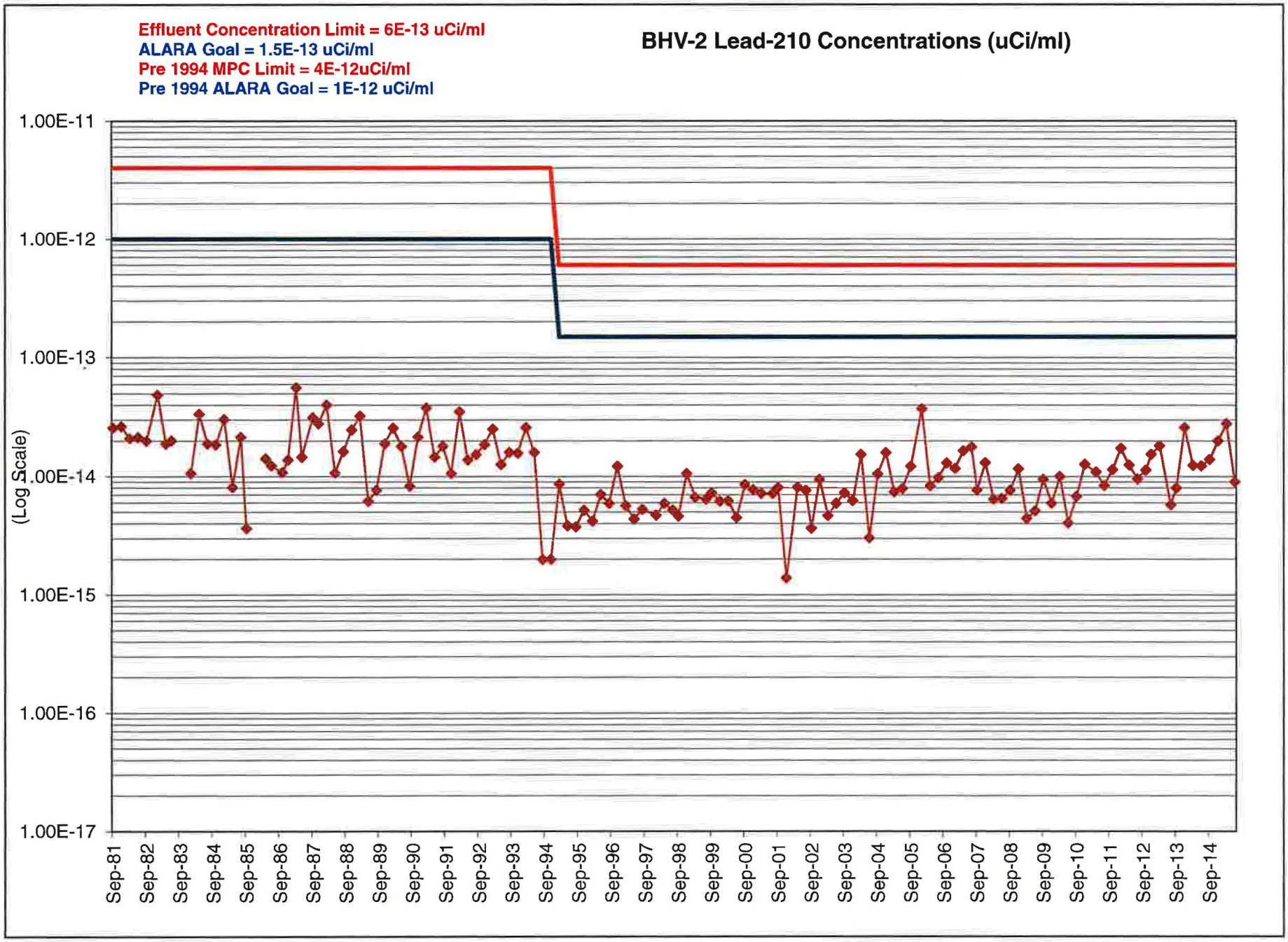
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-2 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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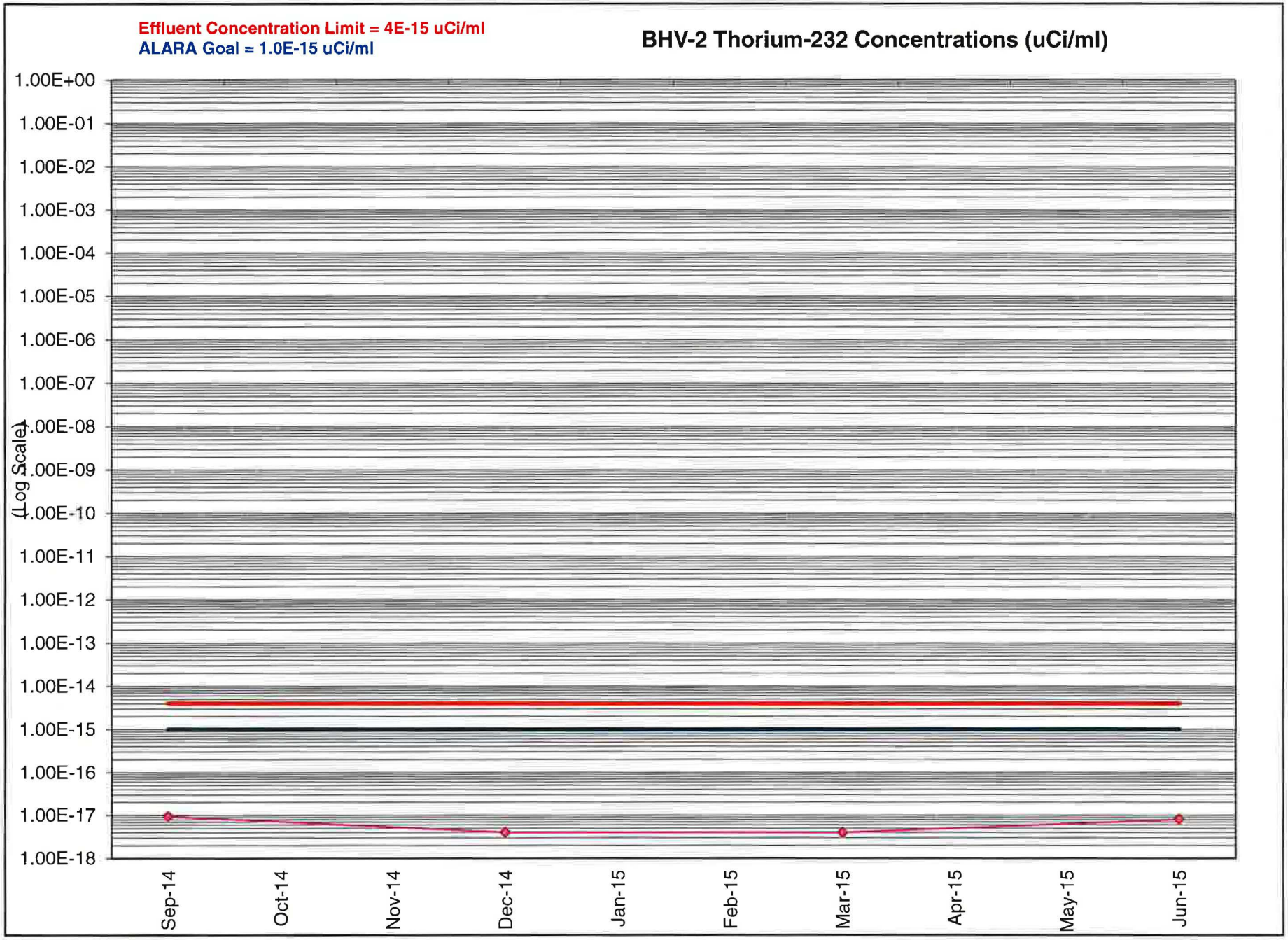
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-2 Thorium-232 Concentrations (uCi/ml)
(Log Scale)
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
1.00E-09
1.00E-10
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15

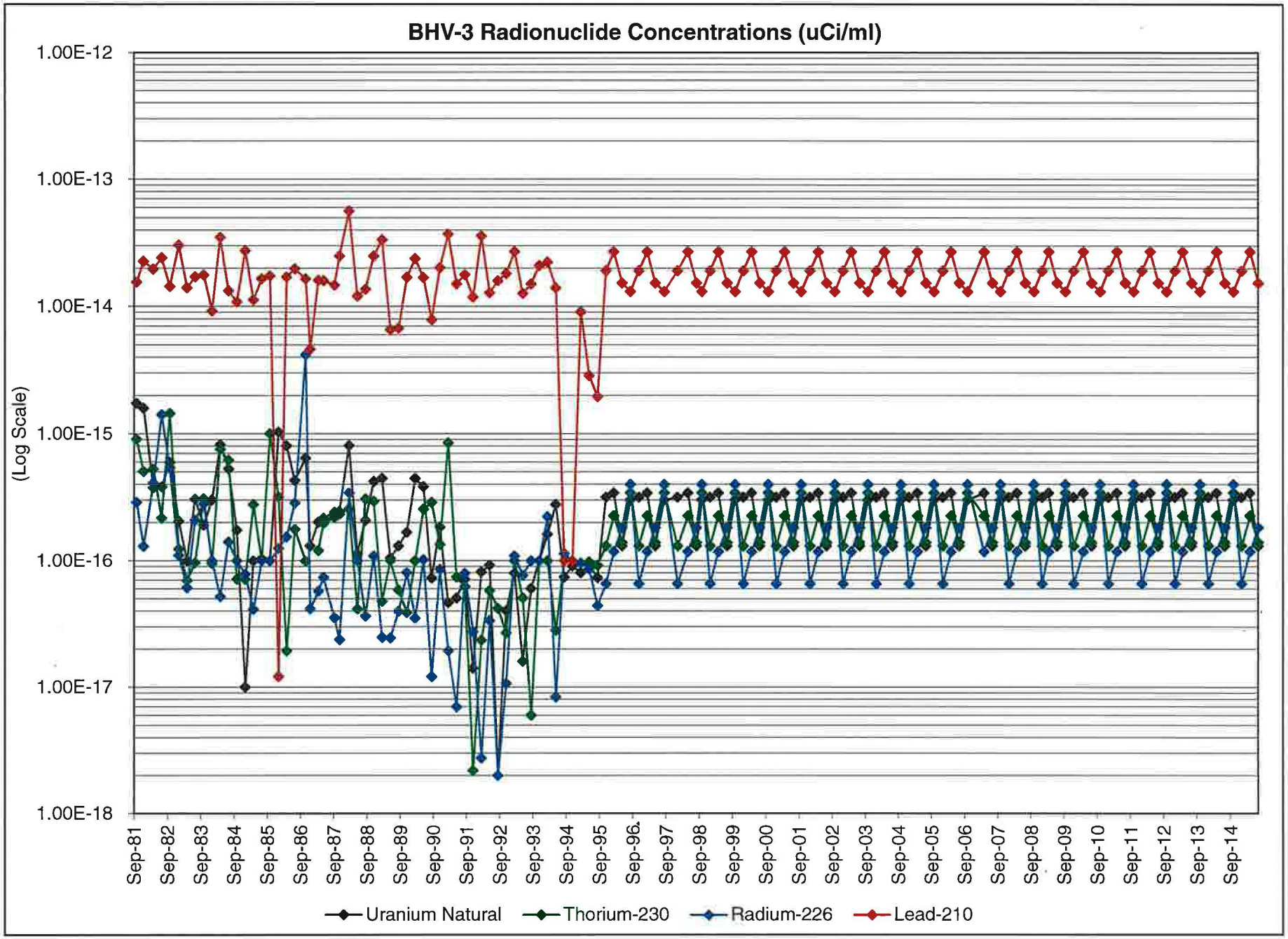
TAB 3

BHV-3 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-3U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-3T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-3R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-3PB
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981	1.74E-15	5.00E-12	1.25E-12	9.02E-16	8.00E-14	2.00E-14	2.87E-16	2.00E-12	5.00E-13	1.54E-14	4.00E-12	1.00E-12
12/14/1981	1.59E-15	5.00E-12	1.25E-12	5.03E-16	8.00E-14	2.00E-14	1.30E-16	2.00E-12	5.00E-13	2.25E-14	4.00E-12	1.00E-12
3/29/1982	3.76E-16	5.00E-12	1.25E-12	5.25E-16	8.00E-14	2.00E-14	4.08E-16	2.00E-12	5.00E-13	1.96E-14	4.00E-12	1.00E-12
6/30/1982	3.83E-16	5.00E-12	1.25E-12	2.16E-16	8.00E-14	2.00E-14	1.41E-15	2.00E-12	5.00E-13	2.40E-14	4.00E-12	1.00E-12
9/27/1982	5.95E-16	5.00E-12	1.25E-12	1.44E-15	8.00E-14	2.00E-14	5.36E-16	2.00E-12	5.00E-13	1.43E-14	4.00E-12	1.00E-12
1/3/1983	2.05E-16	5.00E-12	1.25E-12	1.23E-16	8.00E-14	2.00E-14	1.10E-16	2.00E-12	5.00E-13	3.01E-14	4.00E-12	1.00E-12
4/4/1983	1.00E-16	5.00E-12	1.25E-12	6.94E-17	8.00E-14	2.00E-14	6.11E-17	2.00E-12	5.00E-13	1.39E-14	4.00E-12	1.00E-12
6/30/1983	3.06E-16	5.00E-12	1.25E-12	9.59E-17	8.00E-14	2.00E-14	2.08E-16	2.00E-12	5.00E-13	1.70E-14	4.00E-12	1.00E-12
10/3/1983	1.91E-16	5.00E-12	1.25E-12	3.05E-16	8.00E-14	2.00E-14	2.79E-16	2.00E-12	5.00E-13	1.76E-14	4.00E-12	1.00E-12
1/3/1984	3.01E-16	5.00E-12	1.25E-12	9.51E-17	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	9.17E-15	4.00E-12	1.00E-12
4/2/1984	8.22E-16	5.00E-12	1.25E-12	7.52E-16	8.00E-14	2.00E-14	5.20E-17	2.00E-12	5.00E-13	3.47E-14	4.00E-12	1.00E-12
7/2/1984	5.29E-16	5.00E-12	1.25E-12	6.18E-16	8.00E-14	2.00E-14	1.40E-16	2.00E-12	5.00E-13	1.32E-14	4.00E-12	1.00E-12
10/1/1984	1.74E-16	5.00E-12	1.25E-12	7.10E-17	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.08E-14	4.00E-12	1.00E-12
1/2/1985	1.00E-17	5.00E-12	1.25E-12	7.10E-17	8.00E-14	2.00E-14	7.80E-17	2.00E-12	5.00E-13	2.73E-14	4.00E-12	1.00E-12
4/1/1985	1.00E-16	5.00E-12	1.25E-12	2.76E-16	8.00E-14	2.00E-14	4.10E-17	2.00E-12	5.00E-13	1.12E-14	4.00E-12	1.00E-12
7/1/1985	1.04E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.64E-14	4.00E-12	1.00E-12
9/30/1985	1.00E-16	5.00E-12	1.25E-12	1.00E-15	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.73E-14	4.00E-12	1.00E-12
1/2/1986	1.03E-15	5.00E-12	1.25E-12	3.17E-16	8.00E-14	2.00E-14	1.25E-16	2.00E-12	5.00E-13	1.21E-17	4.00E-12	1.00E-12
4/1/1986	8.04E-16	5.00E-12	1.25E-12	1.93E-17	8.00E-14	2.00E-14	1.54E-16	2.00E-12	5.00E-13	1.69E-14	4.00E-12	1.00E-12
6/30/1986	4.29E-16	5.00E-12	1.25E-12	1.77E-16	8.00E-14	2.00E-14	2.83E-16	2.00E-12	5.00E-13	1.97E-14	4.00E-12	1.00E-12
10/27/1986	6.45E-16	5.00E-12	1.25E-12	9.89E-17	8.00E-14	2.00E-14	4.16E-15	2.00E-12	5.00E-13	1.64E-14	4.00E-12	1.00E-12
12/15/1986	1.31E-16	5.00E-12	1.25E-12	0.00E+00	8.00E-14	2.00E-14	4.16E-17	2.00E-12	5.00E-13	4.60E-15	4.00E-12	1.00E-12
3/16/1987	2.01E-16	5.00E-12	1.25E-12	1.20E-16	8.00E-14	2.00E-14	5.73E-17	2.00E-12	5.00E-13	1.60E-14	4.00E-12	1.00E-12
5/11/1987	2.16E-16	5.00E-12	1.25E-12	1.96E-16	8.00E-14	2.00E-14	7.38E-17	2.00E-12	5.00E-13	1.59E-14	4.00E-12	1.00E-12
9/9/1987	2.41E-16	5.00E-12	1.25E-12	2.18E-16	8.00E-14	2.00E-14	3.52E-17	2.00E-12	5.00E-13	1.46E-14	4.00E-12	1.00E-12
11/2/1987	2.44E-16	5.00E-12	1.25E-12	2.32E-16	8.00E-14	2.00E-14	2.37E-17	2.00E-12	5.00E-13	2.48E-14	4.00E-12	1.00E-12
2/16/1988	8.08E-16	5.00E-12	1.25E-12	2.55E-16	8.00E-14	2.00E-14	3.42E-16	2.00E-12	5.00E-13	5.61E-14	4.00E-12	1.00E-12
5/18/1988	1.14E-16	5.00E-12	1.25E-12	4.14E-17	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.20E-14	4.00E-12	1.00E-12
8/15/1988	2.08E-16	5.00E-12	1.25E-12	3.06E-16	8.00E-14	2.00E-14	3.65E-17	2.00E-12	5.00E-13	1.36E-14	4.00E-12	1.00E-12
11/14/1988	4.21E-16	5.00E-12	1.25E-12	2.93E-16	8.00E-14	2.00E-14	1.09E-16	2.00E-12	5.00E-13	2.48E-14	4.00E-12	1.00E-12
2/13/1989	4.45E-16	5.00E-12	1.25E-12	4.78E-17	8.00E-14	2.00E-14	2.47E-17	2.00E-12	5.00E-13	3.34E-14	4.00E-12	1.00E-12
5/15/1989	1.05E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	2.45E-17	2.00E-12	5.00E-13	6.56E-15	4.00E-12	1.00E-12
8/14/1989	1.31E-16	5.00E-12	1.25E-12	5.85E-17	8.00E-14	2.00E-14	3.97E-17	2.00E-12	5.00E-13	6.75E-15	4.00E-12	1.00E-12
11/13/1989	1.67E-16	5.00E-12	1.25E-12	3.87E-17	8.00E-14	2.00E-14	8.03E-17	2.00E-12	5.00E-13	1.69E-14	4.00E-12	1.00E-12
2/12/1990	4.43E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	3.50E-17	2.00E-12	5.00E-13	2.37E-14	4.00E-12	1.00E-12
5/14/1990	3.84E-16	5.00E-12	1.25E-12	2.54E-16	8.00E-14	2.00E-14	1.02E-16	2.00E-12	5.00E-13	1.68E-14	4.00E-12	1.00E-12
8/13/1990	7.27E-17	5.00E-12	1.25E-12	2.87E-16	8.00E-14	2.00E-14	1.21E-17	2.00E-12	5.00E-13	7.86E-15	4.00E-12	1.00E-12
11/12/1990	1.84E-16	5.00E-12	1.25E-12	1.34E-16	8.00E-14	2.00E-14	8.53E-17	2.00E-12	5.00E-13	2.01E-14	4.00E-12	1.00E-12
2/11/1991	4.66E-17	5.00E-12	1.25E-12	8.48E-16	8.00E-14	2.00E-14	1.94E-17	2.00E-12	5.00E-13	3.69E-14	4.00E-12	1.00E-12
5/13/1991	5.05E-17	5.00E-12	1.25E-12	7.40E-17	8.00E-14	2.00E-14	7.00E-18	2.00E-12	5.00E-13	1.50E-14	4.00E-12	1.00E-12
8/12/1991	7.14E-17	5.00E-12	1.25E-12	6.22E-17	8.00E-14	2.00E-14	7.95E-17	2.00E-12	5.00E-13	1.77E-14	4.00E-12	1.00E-12
11/11/1991	1.41E-17	5.00E-12	1.25E-12	2.19E-18	8.00E-14	2.00E-14	2.75E-17	2.00E-12	5.00E-13	1.18E-14	4.00E-12	1.00E-12
2/10/1992	8.12E-17	5.00E-12	1.25E-12	2.35E-17	8.00E-14	2.00E-14	2.76E-18	2.00E-12	5.00E-13	3.57E-14	4.00E-12	1.00E-12
5/11/1992	9.18E-17	5.00E-12	1.25E-12	5.80E-17	8.00E-14	2.00E-14	3.36E-17	2.00E-12	5.00E-13	1.28E-14	4.00E-12	1.00E-12
8/10/1992	2.00E-18	5.00E-12	1.25E-12	4.19E-17	8.00E-14	2.00E-14	2.00E-18	2.00E-12	5.00E-13	1.59E-14	4.00E-12	1.00E-12
11/9/1992	4.00E-17	5.00E-12	1.25E-12	2.68E-17	8.00E-14	2.00E-14	1.07E-17	2.00E-12	5.00E-13	1.81E-14	4.00E-12	1.00E-12
2/9/1993	7.94E-17	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.09E-16	2.00E-12	5.00E-13	2.69E-14	4.00E-12	1.00E-12
5/10/1993	1.60E-17	5.00E-12	1.25E-12	5.07E-17	8.00E-14	2.00E-14	7.64E-17	2.00E-12	5.00E-13	1.26E-14	4.00E-12	1.00E-12
8/10/1993	6.00E-17	5.00E-12	1.25E-12	6.00E-18	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.50E-14	4.00E-12	1.00E-12

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-3U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-3T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-3R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-3PB
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
11/8/1993	1.00E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	2.10E-14	4.00E-12	1.00E-12
2/7/1994	1.61E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	2.22E-16	2.00E-12	5.00E-13	2.23E-14	4.00E-12	1.00E-12
5/9/1994	2.77E-16	5.00E-12	1.25E-12	2.80E-17	8.00E-14	2.00E-14	8.37E-18	2.00E-12	5.00E-13	1.40E-14	4.00E-12	1.00E-12
8/9/1994	7.39E-17	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.14E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12
11/7/1994	9.05E-17	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12
2/7/1995	7.99E-17	9.00E-14	2.25E-14	9.60E-17	2.00E-14	5.00E-15	9.60E-17	9.00E-13	2.25E-13	9.05E-15	6.00E-13	1.50E-13
5/9/1995	9.40E-17	9.00E-14	2.25E-14	9.80E-17	2.00E-14	5.00E-15	8.60E-17	9.00E-13	2.25E-13	2.88E-15	6.00E-13	1.50E-13
8/9/1995	7.30E-17	9.00E-14	2.25E-14	9.20E-17	2.00E-14	5.00E-15	4.40E-17	9.00E-13	2.25E-13	1.96E-15	6.00E-13	1.50E-13
11/11/1995	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
2/5/1996	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
5/6/1996	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
8/5/1996	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
11/6/1996	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
2/6/1997	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
5/5/1997	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
8/11/1997	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
1/5/1998	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
4/28/1998	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/31/1998	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/28/1998	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/28/1998	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/29/1999	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/3/1999	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/27/1999	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/28/1999	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/28/2000	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/26/2000	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/26/2000	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/26/2000	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/26/2001	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/2/2001	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/24/2001	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/31/2001	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
4/1/2002	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/1/2002	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2002	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/30/2002	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/31/2003	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/30/2003	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/29/2003	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/29/2003	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/29/2004	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/27/2004	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/27/2004	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/27/2004	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/28/2005	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/29/2005	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/26/2005	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
1/3/2006	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-3U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-3T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-3R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-3PB
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-1[illegible] uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
4/3/2006	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/3/2006	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
10/2/2006	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
1/1/2006	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
4/2/2007	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/2/2007	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2007	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/31/2007	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/31/2008	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/30/2008	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2008	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/31/2008	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/15/2009	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/15/2009	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/15/2009	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/15/2009	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/31/2010	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/30/2010	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2010	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/31/2010	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
4/4/2011	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/4/2011	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
10/3/2011	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
1/3/2012	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
4/3/2012	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/2/2012	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
10/1/2012	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/31/2012	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/25/2013	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
7/2/2013	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2013	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/30/2013	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/31/2014	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/30/2014	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13
9/30/2014	3.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	3.99E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13
12/29/2014	3.16E-16	9.00E-14	2.25E-14	1.31E-16	2.00E-14	5.00E-15	6.58E-17	9.00E-13	2.25E-13	1.91E-14	6.00E-13	1.50E-13
3/30/2015	3.41E-16	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	2.69E-14	6.00E-13	1.50E-13
6/29/2015	1.31E-16	9.00E-14	2.25E-14	1.39E-16	2.00E-14	5.00E-15	1.82E-16	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13


BHV-3 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
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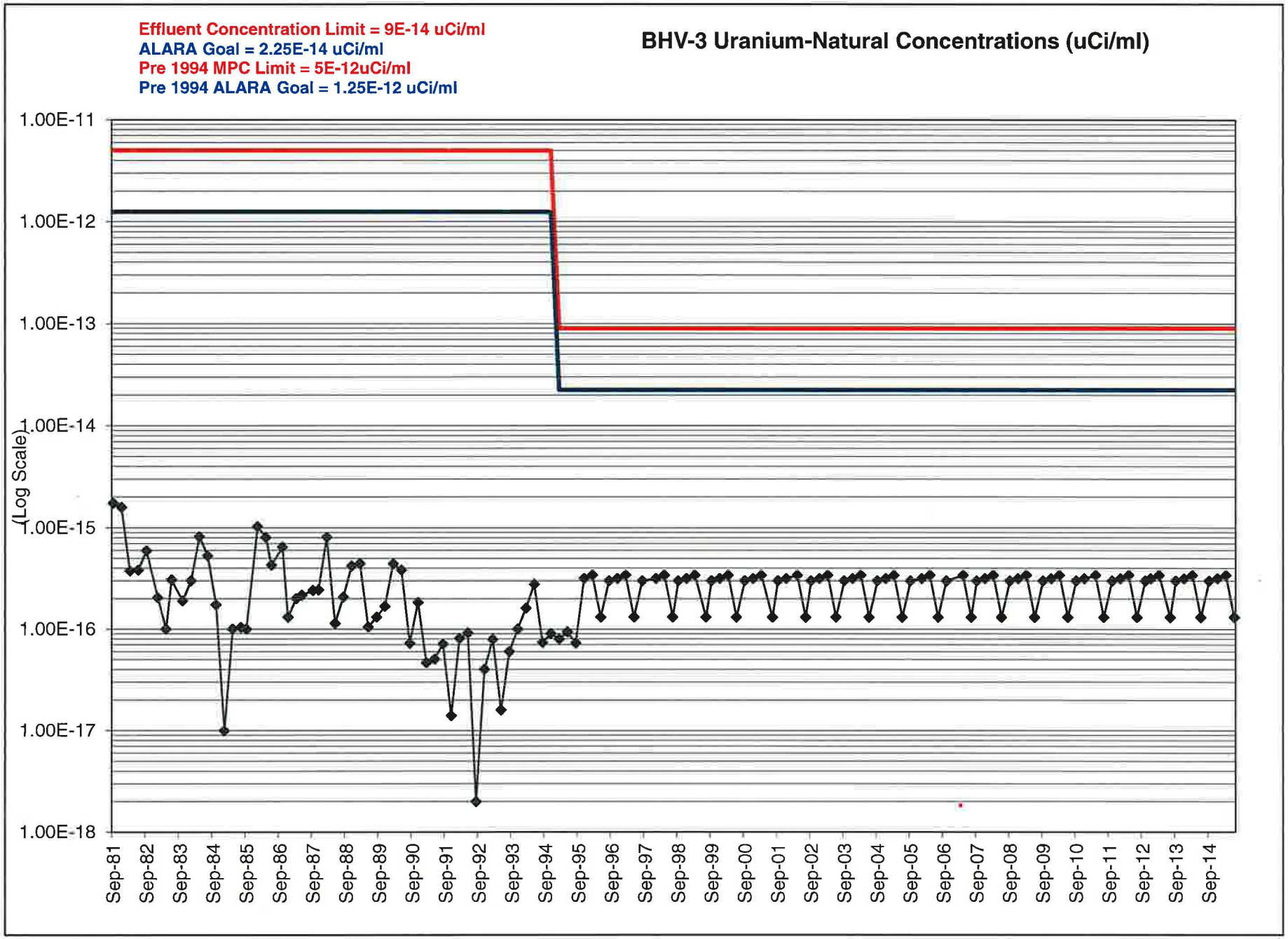
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Uranium Natural
Thorium-230
Radium-226
Lead-210


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-3 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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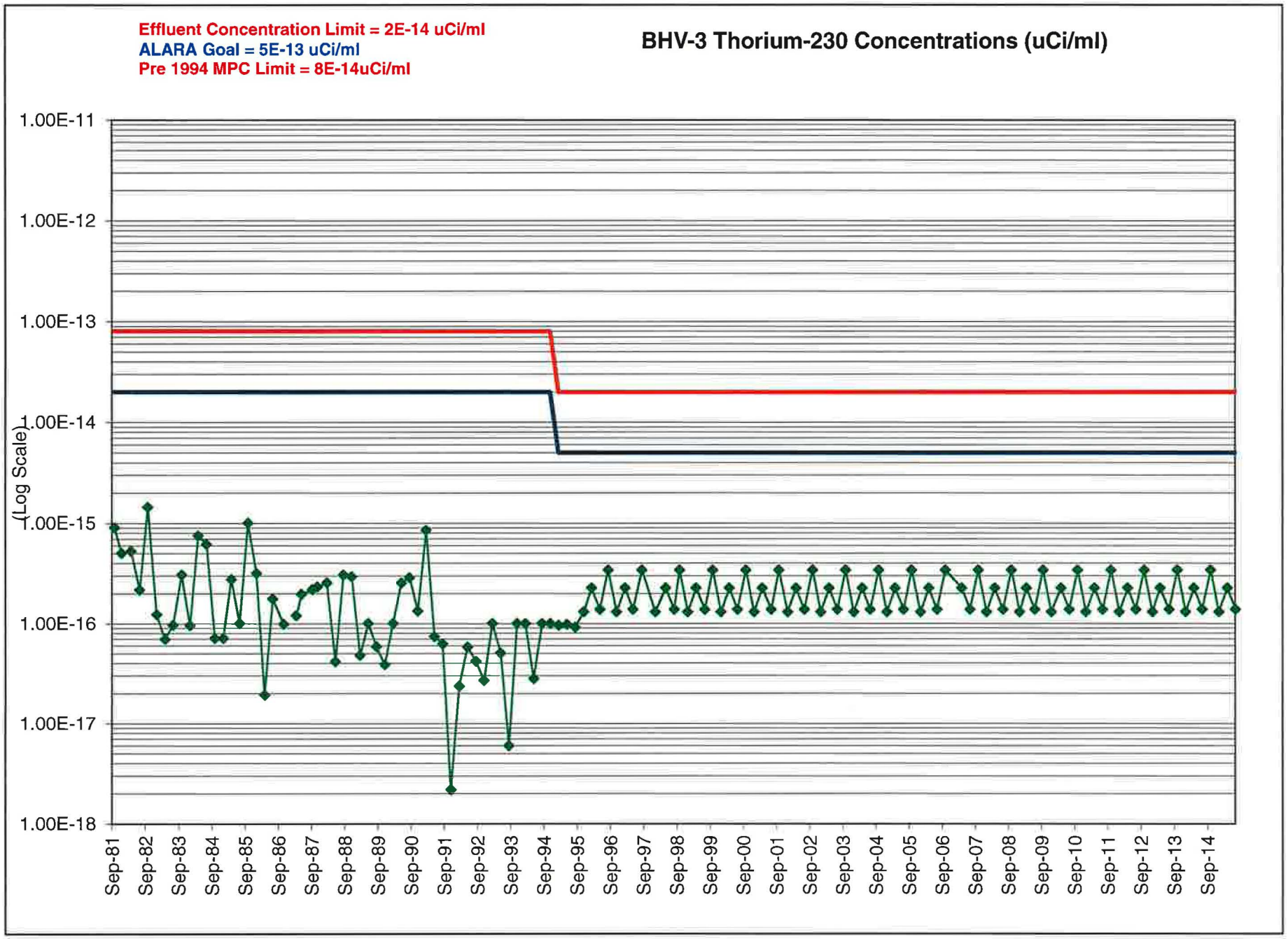
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-13 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-3 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
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Sep-89
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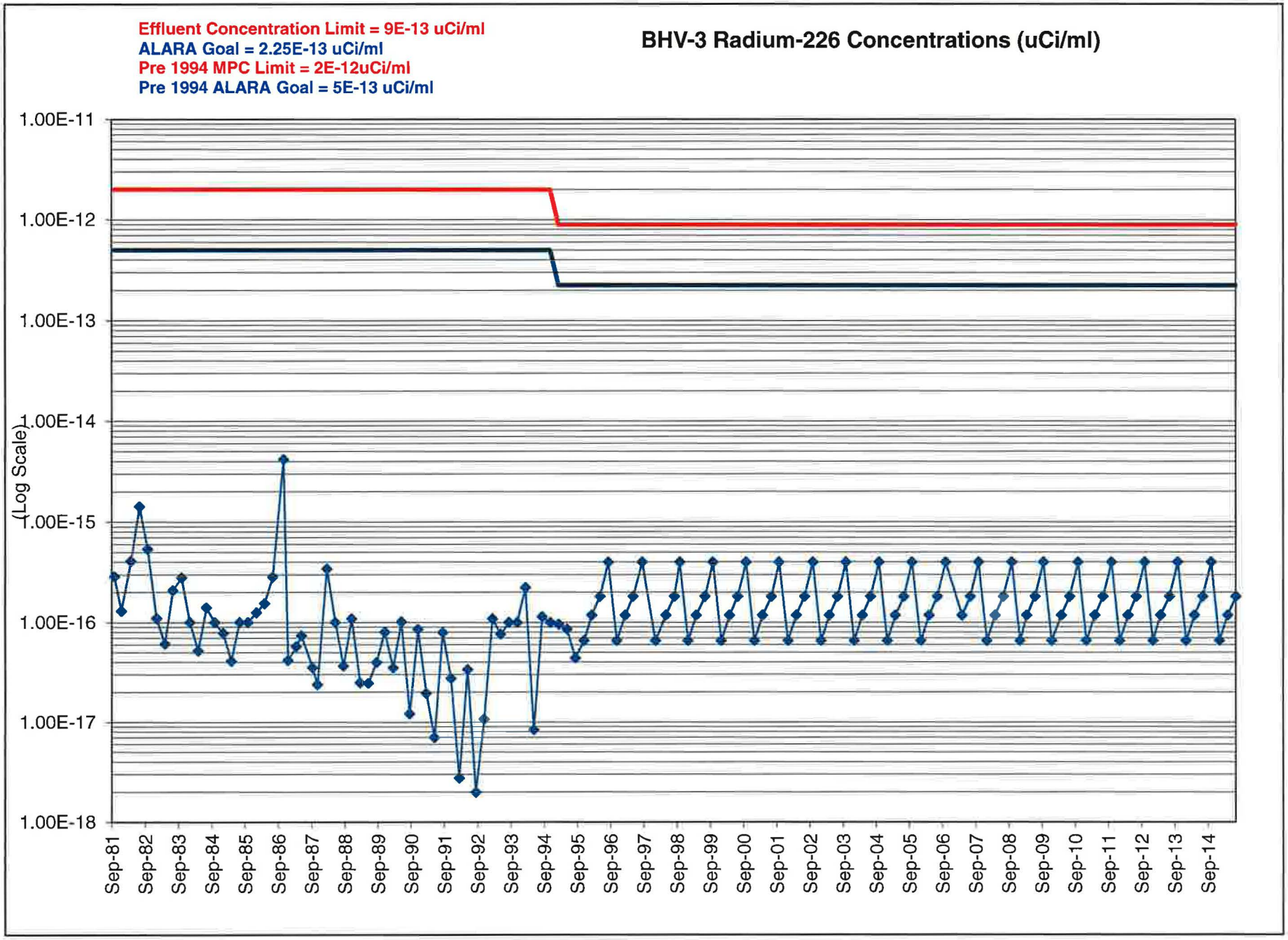
Sep-14


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-3 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
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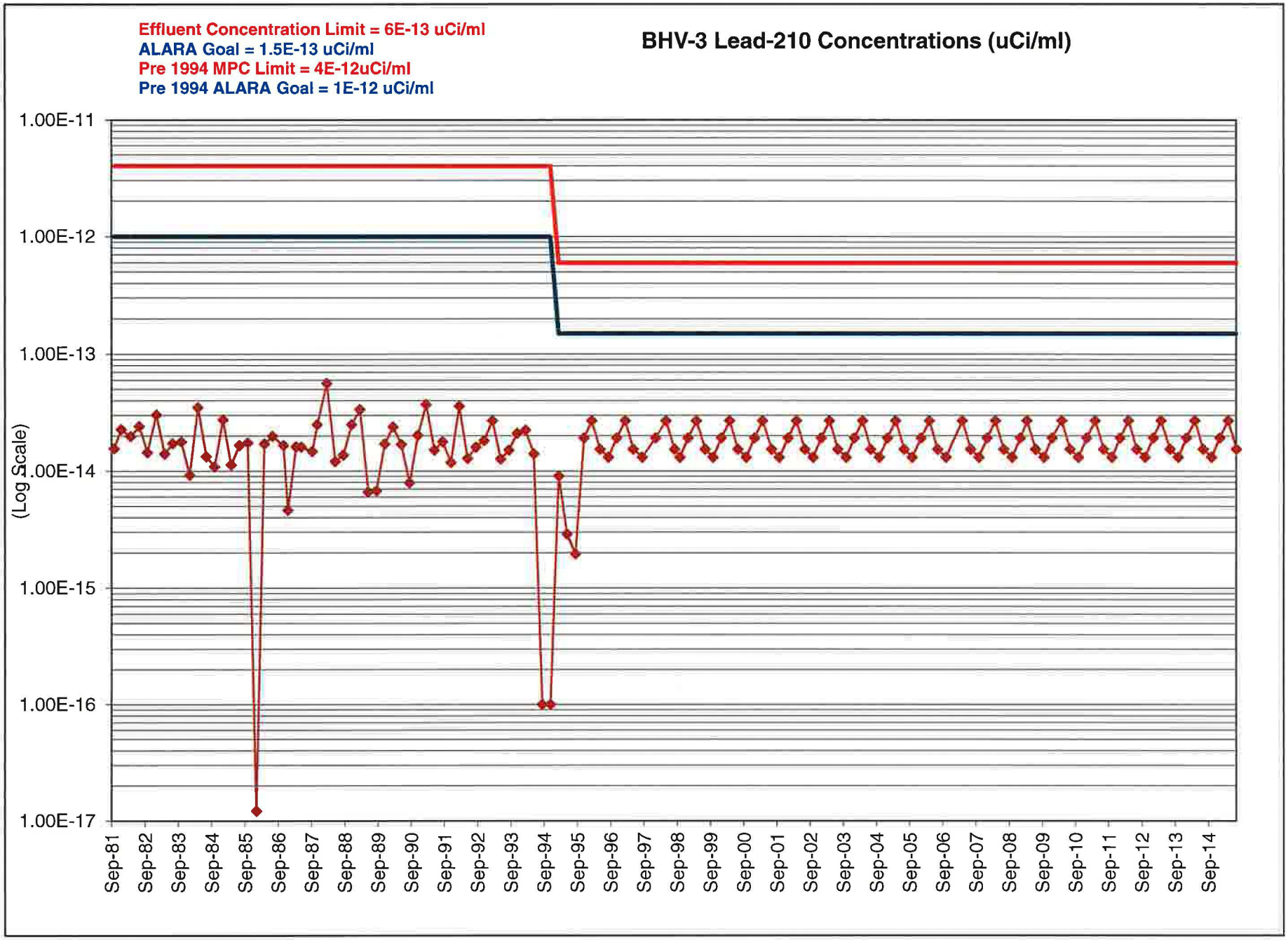
Sep-14


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-3 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
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Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
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Sep-14

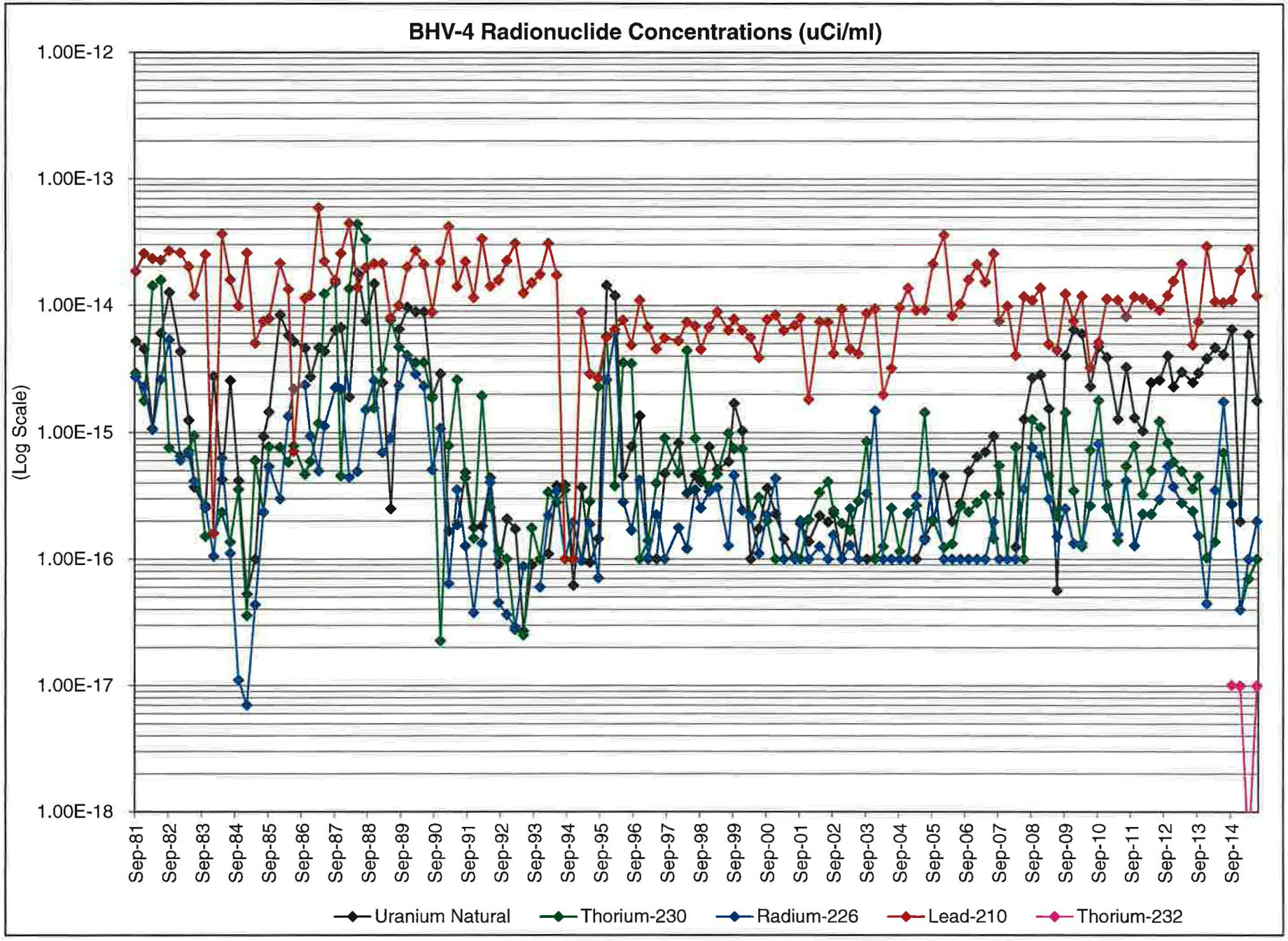
TAB 4

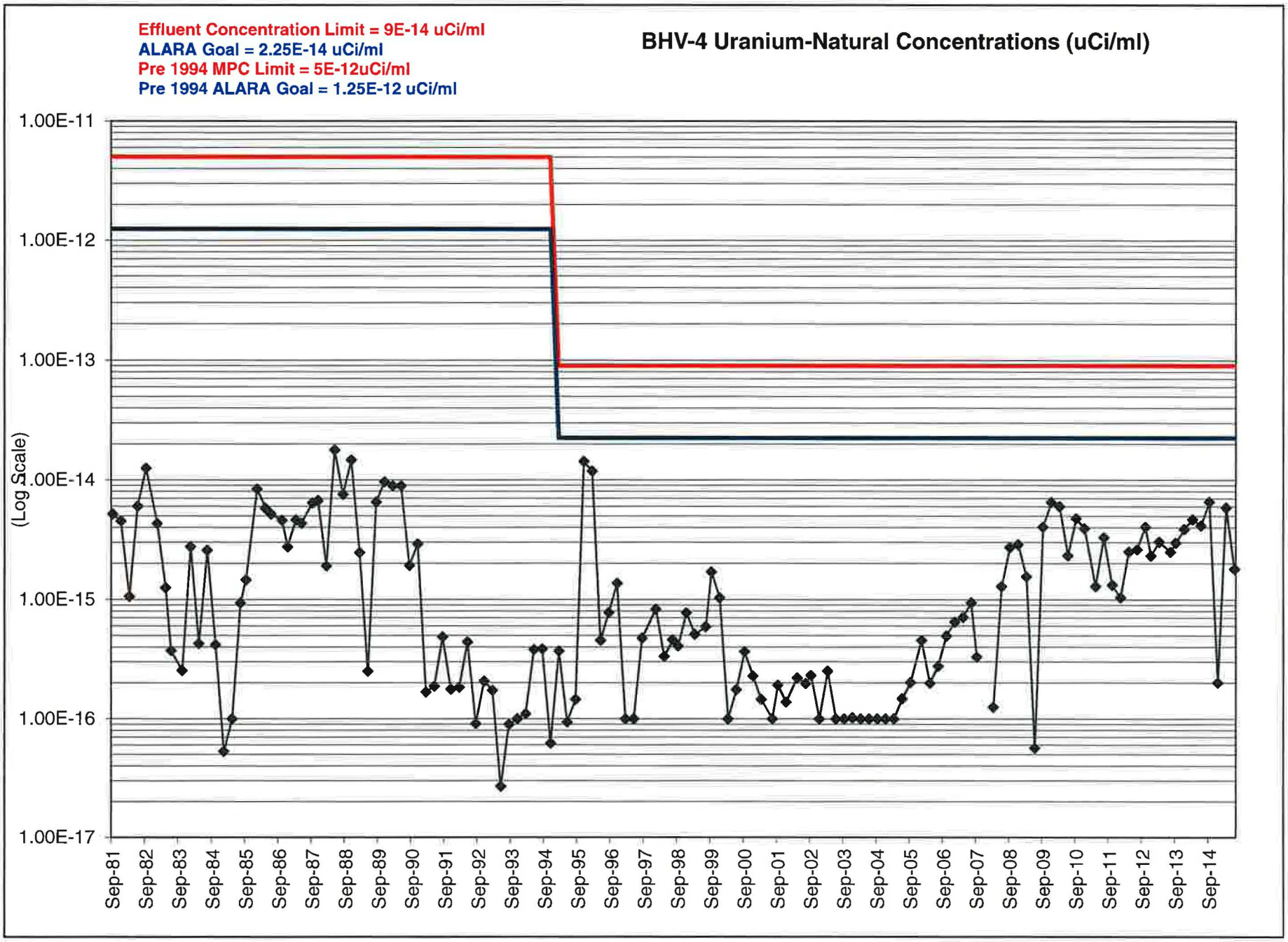
BHV-4 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-4U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-4T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-4R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-4PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-4T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981	5.20E-15	5.00E-12	1.25E-12	2.93E-15	8.00E-14	2.00E-14	2.74E-15	2.00E-12	5.00E-13	1.84E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/14/1981	4.53E-15	5.00E-12	1.25E-12	1.78E-15	8.00E-14	2.00E-14	2.29E-15	2.00E-12	5.00E-13	2.54E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/29/1982	1.06E-15	5.00E-12	1.25E-12	1.42E-14	8.00E-14	2.00E-14	1.07E-15	2.00E-12	5.00E-13	2.31E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1982	6.03E-15	5.00E-12	1.25E-12	1.57E-14	8.00E-14	2.00E-14	2.62E-15	2.00E-12	5.00E-13	2.25E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/27/1982	1.26E-14	5.00E-12	1.25E-12	7.58E-16	8.00E-14	2.00E-14	5.35E-15	2.00E-12	5.00E-13	2.68E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1983	4.33E-15	5.00E-12	1.25E-12	6.52E-16	8.00E-14	2.00E-14	6.04E-16	2.00E-12	5.00E-13	2.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/4/1983	1.25E-15	5.00E-12	1.25E-12	7.17E-16	8.00E-14	2.00E-14	6.76E-16	2.00E-12	5.00E-13	2.00E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1983	3.73E-16	5.00E-12	1.25E-12	9.43E-16	8.00E-14	2.00E-14	4.13E-16	2.00E-12	5.00E-13	1.20E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/3/1983	2.54E-16	5.00E-12	1.25E-12	1.51E-16	8.00E-14	2.00E-14	2.65E-16	2.00E-12	5.00E-13	2.50E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1984	2.76E-15	5.00E-12	1.25E-12	1.60E-16	8.00E-14	2.00E-14	1.05E-16	2.00E-12	5.00E-13	1.59E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/2/1984	4.27E-16	5.00E-12	1.25E-12	2.33E-16	8.00E-14	2.00E-14	6.28E-16	2.00E-12	5.00E-13	3.67E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/2/1984	2.57E-15	5.00E-12	1.25E-12	1.36E-16	8.00E-14	2.00E-14	1.11E-16	2.00E-12	5.00E-13	1.58E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/1/1984	4.18E-16	5.00E-12	1.25E-12	3.54E-16	8.00E-14	2.00E-14	1.10E-17	2.00E-12	5.00E-13	9.83E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1985	5.30E-17	5.00E-12	1.25E-12	3.55E-17	8.00E-14	2.00E-14	7.00E-18	2.00E-12	5.00E-13	2.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1985	1.00E-16	5.00E-12	1.25E-12	6.00E-16	8.00E-14	2.00E-14	4.35E-17	2.00E-12	5.00E-13	5.02E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/1/1985	9.36E-16	5.00E-12	1.25E-12	2.33E-16	8.00E-14	2.00E-14	2.36E-16	2.00E-12	5.00E-13	7.48E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/30/1985	1.46E-15	5.00E-12	1.25E-12	7.69E-16	8.00E-14	2.00E-14	5.38E-16	2.00E-12	5.00E-13	7.86E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1986	8.40E-15	5.00E-12	1.25E-12	7.60E-16	8.00E-14	2.00E-14	2.99E-16	2.00E-12	5.00E-13	2.12E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1986	5.79E-15	5.00E-12	1.25E-12	5.80E-16	8.00E-14	2.00E-14	1.34E-15	2.00E-12	5.00E-13	1.33E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1986	5.19E-15	5.00E-12	1.25E-12	7.83E-16	8.00E-14	2.00E-14	2.20E-15	2.00E-12	5.00E-13	7.14E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/27/1986	4.60E-15	5.00E-12	1.25E-12	4.67E-16	8.00E-14	2.00E-14	2.37E-15	2.00E-12	5.00E-13	1.13E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/15/1986	2.75E-15	5.00E-12	1.25E-12	5.90E-16	8.00E-14	2.00E-14	9.39E-16	2.00E-12	5.00E-13	1.20E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/16/1987	4.64E-15	5.00E-12	1.25E-12	1.18E-15	8.00E-14	2.00E-14	4.97E-16	2.00E-12	5.00E-13	5.89E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1987	4.35E-15	5.00E-12	1.25E-12	1.23E-14	8.00E-14	2.00E-14	1.13E-15	2.00E-12	5.00E-13	2.21E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/9/1987	6.39E-15	5.00E-12	1.25E-12	1.50E-14	8.00E-14	2.00E-14	2.26E-15	2.00E-12	5.00E-13	1.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/2/1987	6.72E-15	5.00E-12	1.25E-12	4.53E-16	8.00E-14	2.00E-14	2.20E-15	2.00E-12	5.00E-13	2.55E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/16/1988	1.91E-15	5.00E-12	1.25E-12	1.35E-14	8.00E-14	2.00E-14	4.42E-16	2.00E-12	5.00E-13	4.44E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/18/1988	1.78E-14	5.00E-12	1.25E-12	4.39E-14	8.00E-14	2.00E-14	4.92E-16	2.00E-12	5.00E-13	1.38E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/15/1988	7.56E-15	5.00E-12	1.25E-12	3.31E-14	8.00E-14	2.00E-14	1.51E-15	2.00E-12	5.00E-13	1.97E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/14/1988	1.47E-14	5.00E-12	1.25E-12	1.56E-15	8.00E-14	2.00E-14	2.57E-15	2.00E-12	5.00E-13	2.12E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/13/1989	2.47E-15	5.00E-12	1.25E-12	3.14E-15	8.00E-14	2.00E-14	6.94E-16	2.00E-12	5.00E-13	2.12E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/15/1989	2.50E-16	5.00E-12	1.25E-12	7.68E-15	8.00E-14	2.00E-14	9.03E-16	2.00E-12	5.00E-13	8.05E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/14/1989	6.50E-15	5.00E-12	1.25E-12	4.72E-15	8.00E-14	2.00E-14	2.35E-15	2.00E-12	5.00E-13	9.95E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/13/1989	9.63E-15	5.00E-12	1.25E-12	4.05E-15	8.00E-14	2.00E-14	4.03E-15	2.00E-12	5.00E-13	1.99E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/12/1990	8.92E-15	5.00E-12	1.25E-12	3.56E-15	8.00E-14	2.00E-14	2.89E-15	2.00E-12	5.00E-13	2.69E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/14/1990	8.90E-15	5.00E-12	1.25E-12	3.58E-15	8.00E-14	2.00E-14	2.33E-15	2.00E-12	5.00E-13	2.09E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/13/1990	1.92E-15	5.00E-12	1.25E-12	1.87E-15	8.00E-14	2.00E-14	5.06E-16	2.00E-12	5.00E-13	8.86E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/12/1990	2.91E-15	5.00E-12	1.25E-12	2.25E-17	8.00E-14	2.00E-14	1.08E-15	2.00E-12	5.00E-13	2.19E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/11/1991	1.67E-16	5.00E-12	1.25E-12	7.89E-16	8.00E-14	2.00E-14	6.38E-17	2.00E-12	5.00E-13	4.19E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/13/1991	1.87E-16	5.00E-12	1.25E-12	2.61E-15	8.00E-14	2.00E-14	3.54E-16	2.00E-12	5.00E-13	1.40E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/12/1991	4.85E-16	5.00E-12	1.25E-12	4.38E-16	8.00E-14	2.00E-14	1.27E-16	2.00E-12	5.00E-13	2.20E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/11/1991	1.77E-16	5.00E-12	1.25E-12	1.46E-16	8.00E-14	2.00E-14	3.76E-17	2.00E-12	5.00E-13	1.15E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/10/1992	1.83E-16	5.00E-12	1.25E-12	1.95E-15	8.00E-14	2.00E-14	1.33E-16	2.00E-12	5.00E-13	3.35E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1992	4.40E-16	5.00E-12	1.25E-12	2.56E-16	8.00E-14	2.00E-14	4.04E-16	2.00E-12	5.00E-13	1.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1992	9.09E-17	5.00E-12	1.25E-12	1.15E-16	8.00E-14	2.00E-14	4.50E-17	2.00E-12	5.00E-13	1.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/9/1992	2.07E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	3.62E-17	2.00E-12	5.00E-13	2.24E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/9/1993	1.73E-16	5.00E-12	1.25E-12	2.76E-17	8.00E-14	2.00E-14	2.89E-17	2.00E-12	5.00E-13	3.08E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/10/1993	2.70E-17	5.00E-12	1.25E-12	2.50E-17	8.00E-14	2.00E-14	8.74E-17	2.00E-12	5.00E-13	1.25E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1993	9.00E-17	5.00E-12	1.25E-12	1.76E-16	8.00E-14	2.00E-14	0.00E+00	2.00E-12	5.00E-13	1.50E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/8/1993	1.00E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	6.00E-17	2.00E-12	5.00E-13	1.75E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-4U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-4T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-4R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-4PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-4T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
2/7/1994	1.10E-16	5.00E-12	1.25E-12	3.38E-16	8.00E-14	2.00E-14	2.21E-16	2.00E-12	5.00E-13	3.08E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/9/1994	3.80E-16	5.00E-12	1.25E-12	2.82E-16	8.00E-14	2.00E-14	3.46E-16	2.00E-12	5.00E-13	1.73E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/9/1994	3.85E-16	5.00E-12	1.25E-12	3.53E-16	8.00E-14	2.00E-14	1.00E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/7/1994	6.21E-17	5.00E-12	1.25E-12	9.70E-17	8.00E-14	2.00E-14	1.96E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1995	3.70E-16	9.00E-14	2.25E-14	9.80E-17	2.00E-14	5.00E-15	9.70E-17	9.00E-13	2.25E-13	8.84E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/9/1995	9.40E-17	9.00E-14	2.25E-14	2.86E-16	2.00E-14	5.00E-15	1.90E-16	9.00E-13	2.25E-13	2.90E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/9/1995	1.45E-16	9.00E-14	2.25E-14	2.31E-15	2.00E-14	5.00E-15	7.10E-17	9.00E-13	2.25E-13	2.70E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/11/1995	1.43E-14	9.00E-14	2.25E-14	5.70E-15	2.00E-14	5.00E-15	2.61E-15	9.00E-13	2.25E-13	5.60E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/5/1996	1.19E-14	9.00E-14	2.25E-14	3.80E-16	2.00E-14	5.00E-15	6.10E-15	9.00E-13	2.25E-13	6.48E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/6/1996	4.55E-16	9.00E-14	2.25E-14	3.57E-15	2.00E-14	5.00E-15	2.84E-16	9.00E-13	2.25E-13	7.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/5/1996	7.78E-16	9.00E-14	2.25E-14	3.51E-15	2.00E-14	5.00E-15	1.69E-16	9.00E-13	2.25E-13	4.90E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/6/1996	1.36E-15	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	4.21E-16	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/6/1997	1.00E-16	9.00E-14	2.25E-14	1.40E-16	2.00E-14	5.00E-15	1.03E-16	9.00E-13	2.25E-13	6.76E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/5/1997	1.00E-16	9.00E-14	2.25E-14	4.00E-16	2.00E-14	5.00E-15	2.24E-16	9.00E-13	2.25E-13	4.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/11/1997	4.74E-16	9.00E-14	2.25E-14	9.07E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/5/1998	8.31E-16	9.00E-14	2.25E-14	4.82E-16	2.00E-14	5.00E-15	1.77E-16	9.00E-13	2.25E-13	5.28E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/28/1998	3.32E-16	9.00E-14	2.25E-14	4.43E-15	2.00E-14	5.00E-15	1.21E-16	9.00E-13	2.25E-13	7.43E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/31/1998	4.60E-16	9.00E-14	2.25E-14	9.02E-16	2.00E-14	5.00E-15	3.54E-16	9.00E-13	2.25E-13	6.91E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/28/1998	4.08E-16	9.00E-14	2.25E-14	4.93E-16	2.00E-14	5.00E-15	2.53E-16	9.00E-13	2.25E-13	4.52E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1998	7.72E-16	9.00E-14	2.25E-14	3.75E-16	2.00E-14	5.00E-15	3.43E-16	9.00E-13	2.25E-13	6.73E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/1999	5.11E-16	9.00E-14	2.25E-14	4.70E-16	2.00E-14	5.00E-15	3.70E-16	9.00E-13	2.25E-13	8.96E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/1999	5.90E-16	9.00E-14	2.25E-14	9.89E-16	2.00E-14	5.00E-15	1.28E-16	9.00E-13	2.25E-13	6.40E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/1999	1.70E-15	9.00E-14	2.25E-14	7.50E-16	2.00E-14	5.00E-15	4.61E-16	9.00E-13	2.25E-13	7.86E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1999	1.03E-15	9.00E-14	2.25E-14	7.50E-16	2.00E-14	5.00E-15	2.43E-16	9.00E-13	2.25E-13	6.42E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/27/2000	1.00E-16	9.00E-14	2.25E-14	2.13E-16	2.00E-14	5.00E-15	2.20E-16	9.00E-13	2.25E-13	5.61E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/26/2000	1.75E-16	9.00E-14	2.25E-14	3.08E-16	2.00E-14	5.00E-15	1.11E-16	9.00E-13	2.25E-13	3.92E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2000	3.65E-16	9.00E-14	2.25E-14	2.01E-16	2.00E-14	5.00E-15	2.24E-16	9.00E-13	2.25E-13	7.79E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/26/2000	2.27E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	4.35E-16	9.00E-13	2.25E-13	8.45E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/26/2001	1.45E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.37E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2001	1.00E-16	9.00E-14	2.25E-14	1.05E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.99E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/24/2001	1.91E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	2.01E-16	9.00E-13	2.25E-13	8.04E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2001	1.38E-16	9.00E-14	2.25E-14	2.05E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.83E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/1/2002	2.20E-16	9.00E-14	2.25E-14	3.38E-16	2.00E-14	5.00E-15	1.26E-16	9.00E-13	2.25E-13	7.48E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/1/2002	1.97E-16	9.00E-14	2.25E-14	4.10E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.40E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2002	2.30E-16	9.00E-14	2.25E-14	2.42E-16	2.00E-14	5.00E-15	1.56E-16	9.00E-13	2.25E-13	4.21E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2002	1.00E-16	9.00E-14	2.25E-14	1.92E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.42E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2003	2.50E-16	9.00E-14	2.25E-14	1.69E-16	2.00E-14	5.00E-15	1.29E-16	9.00E-13	2.25E-13	4.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2003	1.00E-16	9.00E-14	2.25E-14	2.87E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/29/2003	1.00E-16	9.00E-14	2.25E-14	8.53E-16	2.00E-14	5.00E-15	3.32E-16	9.00E-13	2.25E-13	8.69E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/29/2003	1.02E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.49E-15	9.00E-13	2.25E-13	9.45E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/2004	1.00E-16	9.00E-14	2.25E-14	1.26E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.00E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/27/2004	1.00E-16	9.00E-14	2.25E-14	2.53E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.23E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/2004	1.00E-16	9.00E-14	2.25E-14	1.15E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/27/2004	1.00E-16	9.00E-14	2.25E-14	2.30E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.37E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/28/2005	1.00E-16	9.00E-14	2.25E-14	2.66E-16	2.00E-14	5.00E-15	3.15E-16	9.00E-13	2.25E-13	9.22E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/29/2005	1.47E-16	9.00E-14	2.25E-14	1.45E-15	2.00E-14	5.00E-15	1.42E-16	9.00E-13	2.25E-13	9.34E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2005	2.01E-16	9.00E-14	2.25E-14	2.06E-16	2.00E-14	5.00E-15	4.80E-16	9.00E-13	2.25E-13	2.12E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2006	4.54E-16	9.00E-14	2.25E-14	1.24E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.60E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2006	1.99E-16	9.00E-14	2.25E-14	1.32E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.36E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/2006	2.76E-16	9.00E-14	2.25E-14	2.63E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.03E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-4U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-4T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-4R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-4PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-4T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
10/2/2006	4.97E-16	9.00E-14	2.25E-14	2.37E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.60E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/1/2007	6.46E-16	9.00E-14	2.25E-14	2.81E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/2/2007	7.08E-16	9.00E-14	2.25E-14	3.20E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.54E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2007	9.41E-16	9.00E-14	2.25E-14	1.46E-16	2.00E-14	5.00E-15	1.99E-16	9.00E-13	2.25E-13	2.56E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2007	3.30E-16	9.00E-14	2.25E-14	5.50E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.57E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2007	1.42 E-15	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.93E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2008	1.25E-16	9.00E-14	2.25E-14	7.72E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	4.09E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2008	1.28E-15	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	3.61E-16	9.00E-13	2.25E-13	1.18E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2008	2.72E-15	9.00E-14	2.25E-14	1.27E-15	2.00E-14	5.00E-15	7.66E-16	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2008	2.88E-15	9.00E-14	2.25E-14	1.10E-15	2.00E-14	5.00E-15	6.56E-16	9.00E-13	2.25E-13	1.38E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/15/2009	1.56E-15	9.00E-14	2.25E-14	4.57E-16	2.00E-14	5.00E-15	2.99E-16	9.00E-13	2.25E-13	4.97E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/15/2009	5.67E-17	9.00E-14	2.25E-14	2.17E-16	2.00E-14	5.00E-15	1.51E-16	9.00E-13	2.25E-13	4.47E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/15/2009	4.05E-15	9.00E-14	2.25E-14	1.45E-15	2.00E-14	5.00E-15	2.52E-16	9.00E-13	2.25E-13	1.24E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/15/2009	6.50E-15	9.00E-14	2.25E-14	3.48E-16	2.00E-14	5.00E-15	1.33E-16	9.00E-13	2.25E-13	7.60E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2010	6.01E-15	9.00E-14	2.25E-14	1.26E-16	2.00E-14	5.00E-15	1.34E-16	9.00E-13	2.25E-13	1.19E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2010	2.33E-15	9.00E-14	2.25E-14	7.29E-16	2.00E-14	5.00E-15	2.66E-16	9.00E-13	2.25E-13	3.27E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2010	4.77E-15	9.00E-14	2.25E-14	1.80E-15	2.00E-14	5.00E-15	8.23E-16	9.00E-13	2.25E-13	5.11E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2010	3.93E-15	9.00E-14	2.25E-14	3.90E-16	2.00E-14	5.00E-15	2.56E-16	9.00E-13	2.25E-13	1.13E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/4/2011	1.29E-15	9.00E-14	2.25E-14	1.40E-16	2.00E-14	5.00E-15	1.58E-16	9.00E-13	2.25E-13	1.11E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/4/2011	3.30E-15	9.00E-14	2.25E-14	5.44E-16	2.00E-14	5.00E-15	4.18E-16	9.00E-13	2.25E-13	8.26E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/3/2011	1.32E-15	9.00E-14	2.25E-14	7.89E-16	2.00E-14	5.00E-15	1.28E-16	9.00E-13	2.25E-13	1.18E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2012	1.04E-15	9.00E-14	2.25E-14	3.25E-16	2.00E-14	5.00E-15	2.28E-16	9.00E-13	2.25E-13	1.14E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2012	2.51E-15	9.00E-14	2.25E-14	5.02E-16	2.00E-14	5.00E-15	2.27E-16	9.00E-13	2.25E-13	1.03E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2012	2.62E-15	9.00E-14	2.25E-14	1.23E-15	2.00E-14	5.00E-15	2.97E-16	9.00E-13	2.25E-13	9.27E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/1/2012	4.05E-15	9.00E-14	2.25E-14	8.33E-16	2.00E-14	5.00E-15	5.43E-16	9.00E-13	2.25E-13	1.21E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2012	2.32E-15	9.00E-14	2.25E-14	5.89E-16	2.00E-14	5.00E-15	3.75E-16	9.00E-13	2.25E-13	1.56E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/25/2013	3.04E-15	9.00E-14	2.25E-14	4.99E-16	2.00E-14	5.00E-15	2.79E-16	9.00E-13	2.25E-13	2.13E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2013	2.50E-15	9.00E-14	2.25E-14	3.62E-16	2.00E-14	5.00E-15	2.40E-16	9.00E-13	2.25E-13	4.93E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2013	2.98E-15	9.00E-14	2.25E-14	4.49E-16	2.00E-14	5.00E-15	1.54E-16	9.00E-13	2.25E-13	7.49E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2013	3.88E-15	9.00E-14	2.25E-14	1.03E-16	2.00E-14	5.00E-15	4.47E-17	9.00E-13	2.25E-13	2.93E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2014	4.69E-15	9.00E-14	2.25E-14	1.37E-16	2.00E-14	5.00E-15	3.53E-16	9.00E-13	2.25E-13	1.08E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2014	4.16E-15	9.00E-14	2.25E-14	6.96E-16	2.00E-14	5.00E-15	1.77E-15	9.00E-13	2.25E-13	1.06E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2014	6.56E-15	9.00E-14	2.25E-14	2.73E-16	2.00E-14	5.00E-15	2.77E-16	9.00E-13	2.25E-13	1.11E-14	6.00E-13	1.50E-13	1.01E-17	4.00E-15	1.00E-15
12/29/2014	2.00E-16	9.00E-14	2.25E-14	4.00E-17	2.00E-14	5.00E-15	4.00E-17	9.00E-13	2.25E-13	1.90E-14	6.00E-13	1.50E-13	1.00E-17	4.00E-15	1.00E-15
3/30/2015	5.90E-15	9.00E-14	2.25E-14	7.00E-17	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.80E-14	6.00E-13	1.50E-13	5.00E-19	4.00E-15	1.00E-15
6/29/2015	1.80E-15	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	2.00E-16	9.00E-13	2.25E-13	1.20E-14	6.00E-13	1.50E-13	1.00E-17	4.00E-15	1.00E-15


BHV-4 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-4 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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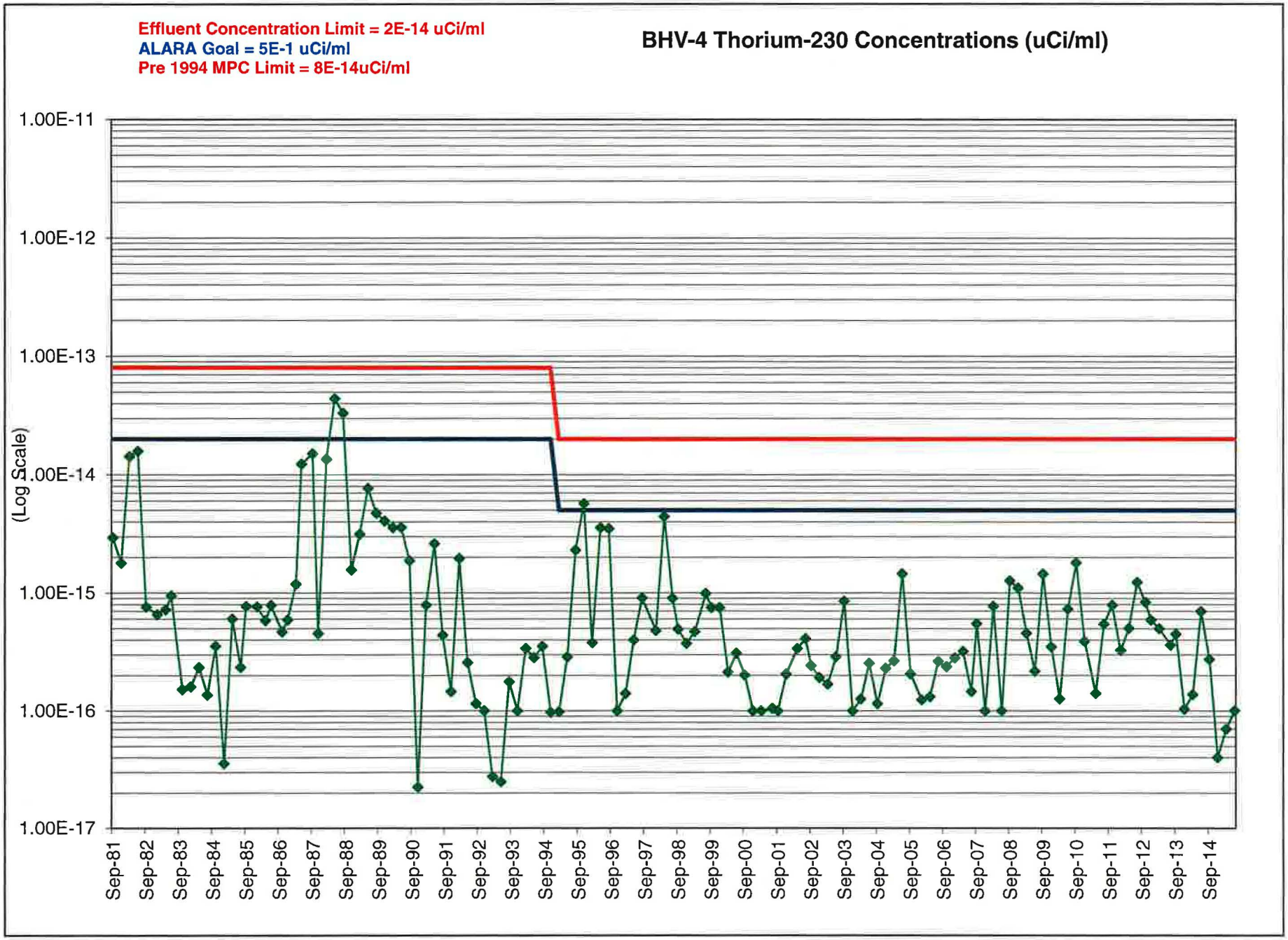
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-1 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-4 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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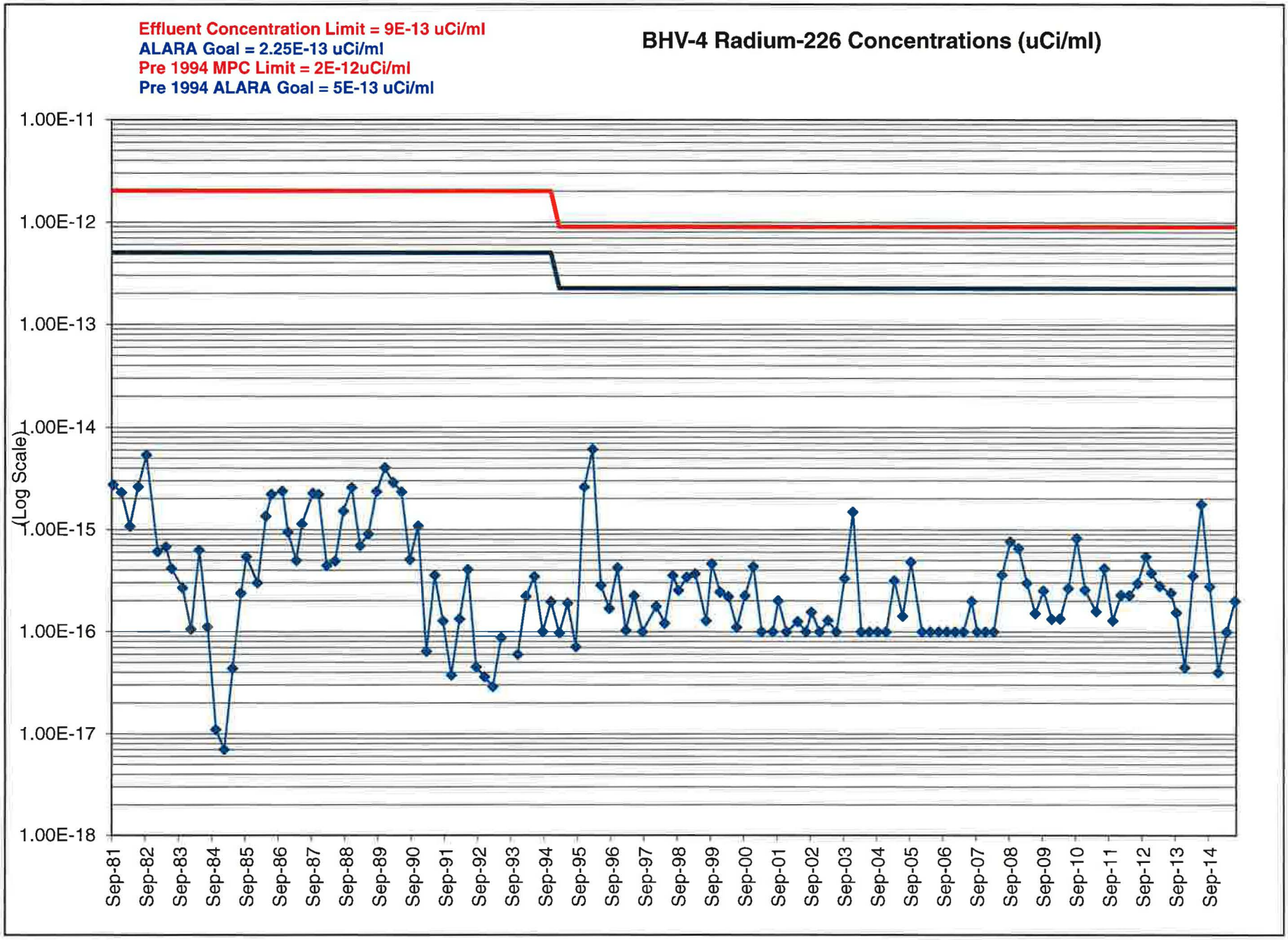
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-4 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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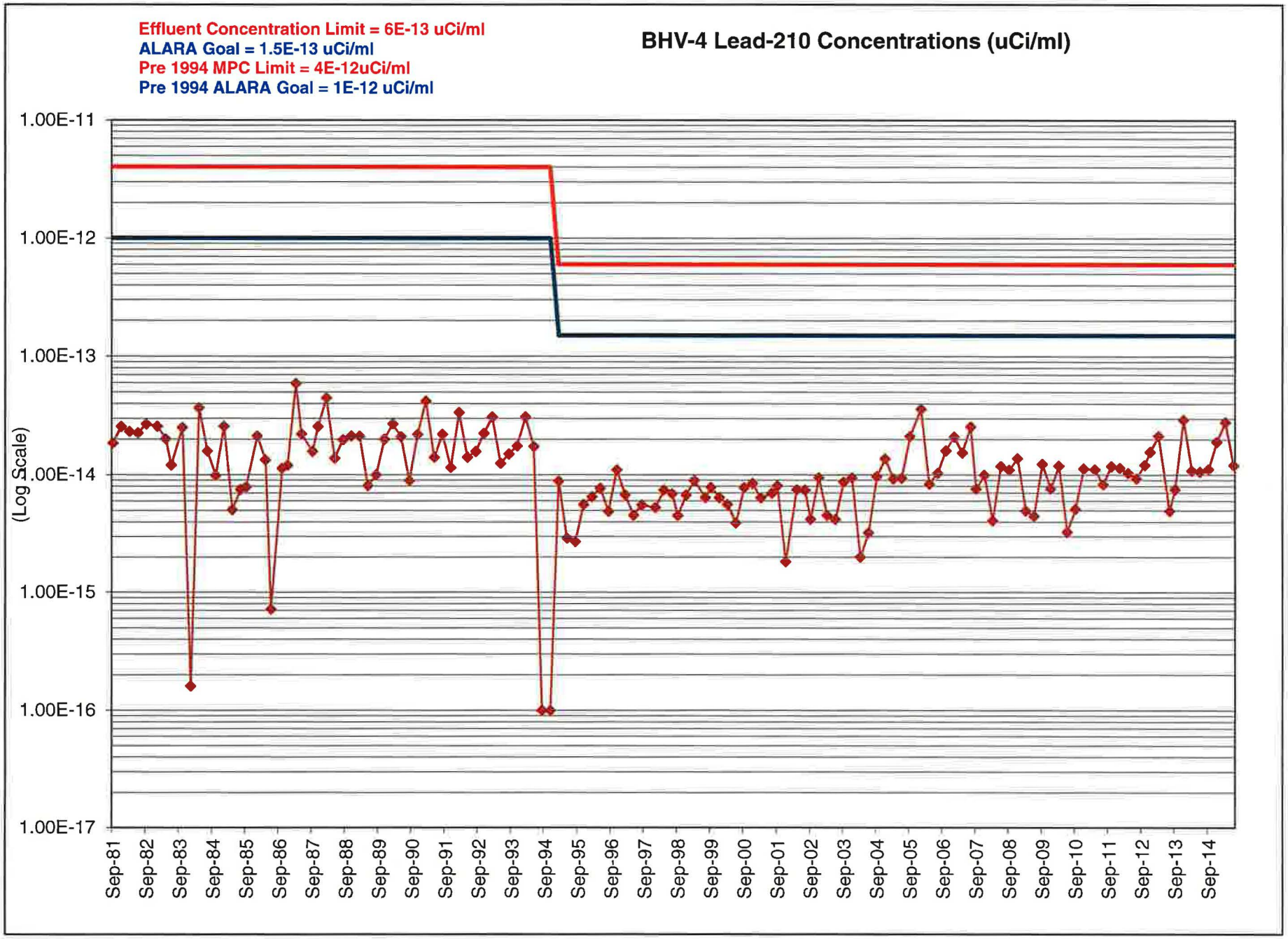
Sep-11
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-4 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
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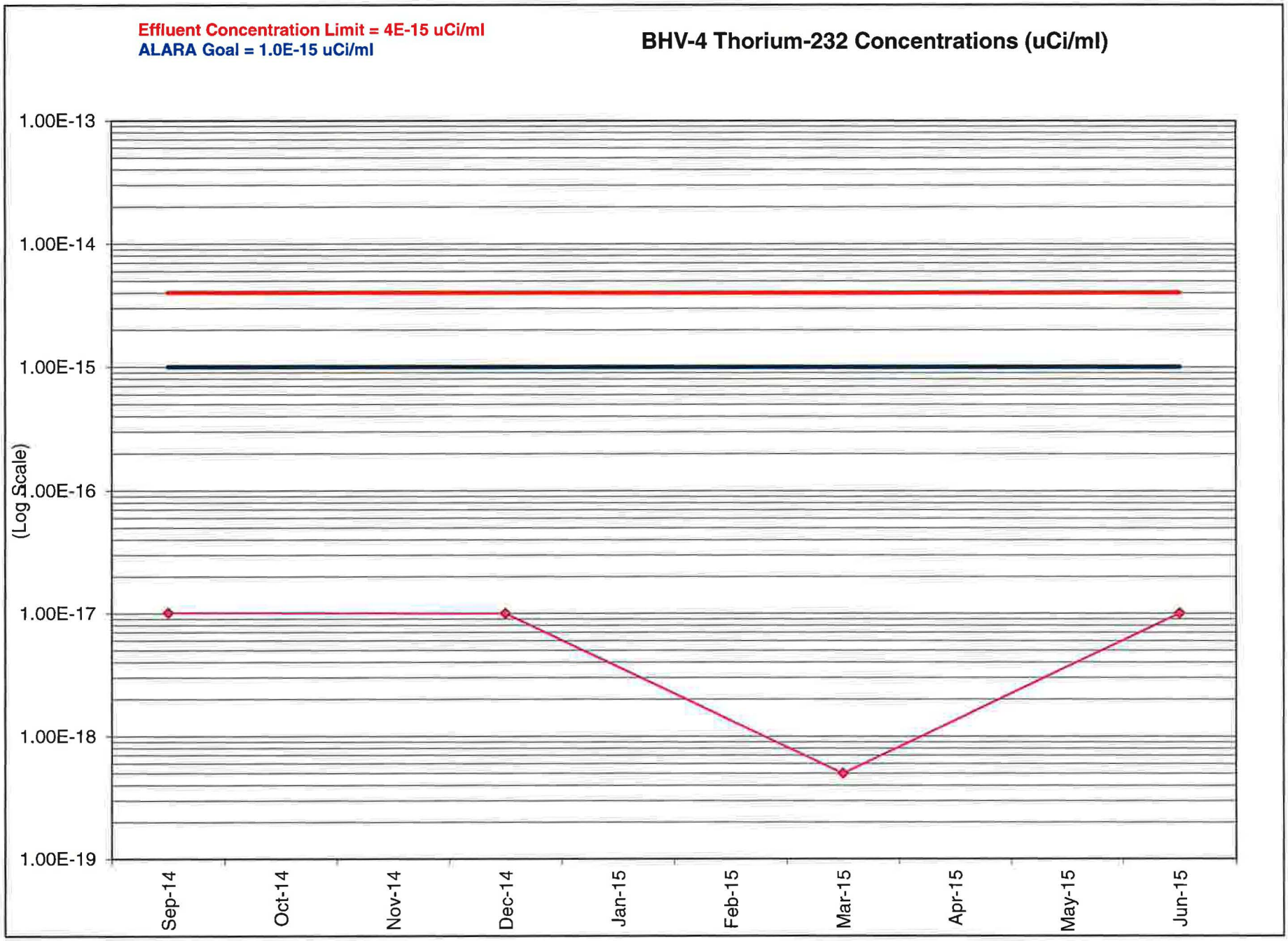
Sep-13
Sep-14


Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-4 Thorium-232 Concentrations (uCi/ml)
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
1.00E-19
(Log Scale)
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15

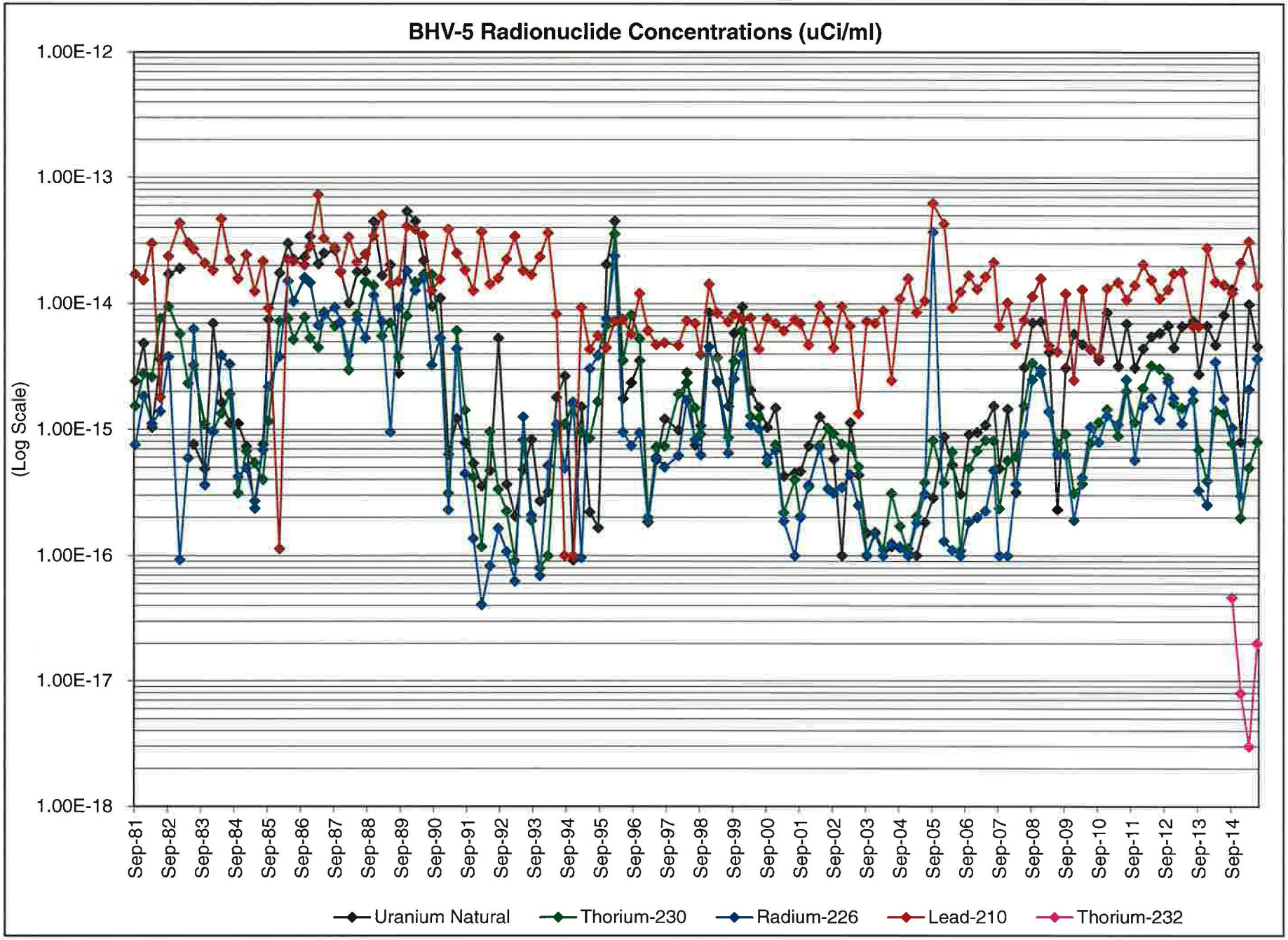
TAB 5

BHV-5 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-5U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-5T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-5R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-5PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-5T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981	2.44E-15	5.00E-12	1.25E-12	1.53E-15	8.00E-14	2.00E-14	7.54E-16	2.00E-12	5.00E-13	1.69E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/14/1981	4.84E-15	5.00E-12	1.25E-12	2.78E-15	8.00E-14	2.00E-14	1.84E-15	2.00E-12	5.00E-13	1.53E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/29/1982	1.04E-15	5.00E-12	1.25E-12	2.62E-15	8.00E-14	2.00E-14	1.11E-15	2.00E-12	5.00E-13	2.98E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1982	3.61E-15	5.00E-12	1.25E-12	7.61E-15	8.00E-14	2.00E-14	1.39E-15	2.00E-12	5.00E-13	1.80E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/27/1982	1.71E-14	5.00E-12	1.25E-12	9.46E-15	8.00E-14	2.00E-14	3.80E-15	2.00E-12	5.00E-13	2.35E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1983	1.90E-14	5.00E-12	1.25E-12	5.77E-15	8.00E-14	2.00E-14	9.34E-17	2.00E-12	5.00E-13	4.32E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/4/1983		5.00E-12	1.25E-12	2.33E-15	8.00E-14	2.00E-14	5.93E-16	2.00E-12	5.00E-13	3.01E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1983	7.62E-16	5.00E-12	1.25E-12	3.25E-15	8.00E-14	2.00E-14	6.28E-15	2.00E-12	5.00E-13	2.69E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/3/1983	4.86E-16	5.00E-12	1.25E-12	1.10E-15	8.00E-14	2.00E-14	3.63E-16	2.00E-12	5.00E-13	2.08E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1984	6.96E-15	5.00E-12	1.25E-12	9.69E-16	8.00E-14	2.00E-14	9.60E-16	2.00E-12	5.00E-13	1.83E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/2/1984	1.64E-15	5.00E-12	1.25E-12	1.34E-15	8.00E-14	2.00E-14	3.88E-15	2.00E-12	5.00E-13	4.67E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/2/1984	1.12E-15	5.00E-12	1.25E-12	1.92E-15	8.00E-14	2.00E-14	3.31E-15	2.00E-12	5.00E-13	2.21E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/1/1984	1.11E-15	5.00E-12	1.25E-12	3.13E-16	8.00E-14	2.00E-14	4.21E-16	2.00E-12	5.00E-13	1.57E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1985	7.32E-16	5.00E-12	1.25E-12	6.71E-16	8.00E-14	2.00E-14	4.94E-16	2.00E-12	5.00E-13	2.42E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1985	2.36E-16	5.00E-12	1.25E-12	5.43E-16	8.00E-14	2.00E-14	2.71E-16	2.00E-12	5.00E-13	1.25E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/1/1985	7.58E-16	5.00E-12	1.25E-12	4.00E-16	8.00E-14	2.00E-14	6.90E-16	2.00E-12	5.00E-13	2.15E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/30/1985	7.47E-15	5.00E-12	1.25E-12	1.16E-15	8.00E-14	2.00E-14	2.19E-15	2.00E-12	5.00E-13	9.20E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1986	1.75E-14	5.00E-12	1.25E-12	7.24E-15	8.00E-14	2.00E-14	3.83E-15	2.00E-12	5.00E-13	1.13E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1986	2.99E-14	5.00E-12	1.25E-12	7.64E-15	8.00E-14	2.00E-14	1.51E-14	2.00E-12	5.00E-13	2.22E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1986	2.23E-14	5.00E-12	1.25E-12	5.19E-15	8.00E-14	2.00E-14	1.05E-14	2.00E-12	5.00E-13	2.16E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/27/1986	2.33E-14	5.00E-12	1.25E-12	7.78E-15	8.00E-14	2.00E-14	1.60E-14	2.00E-12	5.00E-13	2.02E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/15/1986	3.40E-14	5.00E-12	1.25E-12	5.35E-15	8.00E-14	2.00E-14	1.47E-14	2.00E-12	5.00E-13	2.82E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/16/1987	2.06E-14	5.00E-12	1.25E-12	4.50E-15	8.00E-14	2.00E-14	6.74E-15	2.00E-12	5.00E-13	7.29E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1987	2.50E-14	5.00E-12	1.25E-12	8.54E-15	8.00E-14	2.00E-14	8.15E-15	2.00E-12	5.00E-13	3.28E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/9/1987	2.65E-14	5.00E-12	1.25E-12	6.62E-15	8.00E-14	2.00E-14	9.34E-15	2.00E-12	5.00E-13	2.77E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/2/1987	1.80E-14	5.00E-12	1.25E-12	7.09E-15	8.00E-14	2.00E-14	7.20E-15	2.00E-12	5.00E-13	1.77E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/16/1988	1.01E-14	5.00E-12	1.25E-12	2.98E-15	8.00E-14	2.00E-14	3.93E-15	2.00E-12	5.00E-13	3.36E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/18/1988	1.78E-14	5.00E-12	1.25E-12	8.14E-15	8.00E-14	2.00E-14	7.43E-15	2.00E-12	5.00E-13	2.12E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/15/1988	1.79E-14	5.00E-12	1.25E-12	1.49E-14	8.00E-14	2.00E-14	5.34E-15	2.00E-12	5.00E-13	2.45E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/14/1988	4.46E-14	5.00E-12	1.25E-12	1.39E-14	8.00E-14	2.00E-14	1.17E-14	2.00E-12	5.00E-13	3.43E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/13/1989	1.67E-14	5.00E-12	1.25E-12	5.54E-15	8.00E-14	2.00E-14	7.20E-15	2.00E-12	5.00E-13	5.02E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/15/1989	2.03E-14	5.00E-12	1.25E-12	7.05E-15	8.00E-14	2.00E-14	9.56E-16	2.00E-12	5.00E-13	1.43E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/14/1989	2.81E-15	5.00E-12	1.25E-12	3.78E-15	8.00E-14	2.00E-14	9.26E-15	2.00E-12	5.00E-13	1.50E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/13/1989	5.38E-14	5.00E-12	1.25E-12	8.01E-15	8.00E-14	2.00E-14	1.81E-14	2.00E-12	5.00E-13	4.09E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/12/1990	4.48E-14	5.00E-12	1.25E-12	1.48E-14	8.00E-14	2.00E-14	1.28E-14	2.00E-12	5.00E-13	3.88E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/14/1990	2.18E-14	5.00E-12	1.25E-12	1.70E-14	8.00E-14	2.00E-14	1.59E-14	2.00E-12	5.00E-13	3.49E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/13/1990	9.53E-15	5.00E-12	1.25E-12	1.70E-14	8.00E-14	2.00E-14	3.27E-15	2.00E-12	5.00E-13	1.27E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/12/1990	1.11E-14	5.00E-12	1.25E-12	5.27E-15	8.00E-14	2.00E-14	5.38E-15	2.00E-12	5.00E-13	1.56E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/11/1991	6.35E-16	5.00E-12	1.25E-12	3.13E-16	8.00E-14	2.00E-14	2.31E-16	2.00E-12	5.00E-13	3.89E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/13/1991	1.22E-15	5.00E-12	1.25E-12	6.14E-15	8.00E-14	2.00E-14	4.41E-15	2.00E-12	5.00E-13	2.50E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/12/1991	7.84E-16	5.00E-12	1.25E-12	1.43E-15	8.00E-14	2.00E-14	4.47E-16	2.00E-12	5.00E-13	1.84E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/11/1991	5.37E-16	5.00E-12	1.25E-12	4.20E-16	8.00E-14	2.00E-14	1.37E-16	2.00E-12	5.00E-13	1.27E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/10/1992	3.54E-16	5.00E-12	1.25E-12	1.18E-16	8.00E-14	2.00E-14	4.08E-17	2.00E-12	5.00E-13	3.69E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1992	4.71E-16	5.00E-12	1.25E-12	9.58E-16	8.00E-14	2.00E-14	8.31E-17	2.00E-12	5.00E-13	1.43E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1992	5.32E-15	5.00E-12	1.25E-12	3.36E-16	8.00E-14	2.00E-14	1.65E-16	2.00E-12	5.00E-13	1.59E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/9/1992	3.66E-16	5.00E-12	1.25E-12	2.25E-16	8.00E-14	2.00E-14	1.08E-16	2.00E-12	5.00E-13	2.24E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/9/1993	2.05E-16	5.00E-12	1.25E-12	9.14E-17	8.00E-14	2.00E-14	6.31E-17	2.00E-12	5.00E-13	3.41E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/10/1993	4.80E-16	5.00E-12	1.25E-12	8.25E-16	8.00E-14	2.00E-14	1.26E-15	2.00E-12	5.00E-13	1.83E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1993	8.30E-16	5.00E-12	1.25E-12	1.90E-16	8.00E-14	2.00E-14	2.10E-16	2.00E-12	5.00E-13	1.70E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-5U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-5T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-5R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-5PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-5T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
11/8/1993	2.70E-16	5.00E-12	1.25E-12	8.00E-17	8.00E-14	2.00E-14	7.00E-17	2.00E-12	5.00E-13	2.34E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1994	3.18E-16	5.00E-12	1.25E-12	1.00E-16	8.00E-14	2.00E-14	5.18E-16	2.00E-12	5.00E-13	3.64E-14	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/9/1994	1.80E-15	5.00E-12	1.25E-12	9.78E-16	8.00E-14	2.00E-14	1.10E-15	2.00E-12	5.00E-13	8.30E-15	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/9/1994	2.67E-15	5.00E-12	1.25E-12	1.11E-15	8.00E-14	2.00E-14	4.95E-16	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/7/1994	9.21E-17	5.00E-12	1.25E-12	1.59E-15	8.00E-14	2.00E-14	1.66E-15	2.00E-12	5.00E-13	1.00E-16	4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1995	1.51E-15	9.00E-14	2.25E-14	9.50E-16	2.00E-14	5.00E-15	9.70E-17	9.00E-13	2.25E-13	9.35E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/9/1995	2.21E-16	9.00E-14	2.25E-14	8.56E-16	2.00E-14	5.00E-15	3.06E-15	9.00E-13	2.25E-13	4.34E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/9/1995	1.66E-16	9.00E-14	2.25E-14	1.67E-15	2.00E-14	5.00E-15	3.90E-15	9.00E-13	2.25E-13	5.60E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/11/1995	2.04E-14	9.00E-14	2.25E-14	6.70E-15	2.00E-14	5.00E-15	7.65E-15	9.00E-13	2.25E-13	4.47E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/5/1996	4.50E-14	9.00E-14	2.25E-14	3.58E-14	2.00E-14	5.00E-15	2.39E-14	9.00E-13	2.25E-13	7.30E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/6/1996	1.76E-15	9.00E-14	2.25E-14	3.57E-15	2.00E-14	5.00E-15	9.55E-16	9.00E-13	2.25E-13	7.54E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/5/1996	2.37E-15	9.00E-14	2.25E-14	8.18E-15	2.00E-14	5.00E-15	7.46E-16	9.00E-13	2.25E-13	5.75E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/6/1996	3.53E-15	9.00E-14	2.25E-14	5.31E-15	2.00E-14	5.00E-15	9.39E-16	9.00E-13	2.25E-13	1.21E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/6/1997	1.84E-16	9.00E-14	2.25E-14	2.01E-16	2.00E-14	5.00E-15	1.87E-16	9.00E-13	2.25E-13	6.14E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/5/1997	5.75E-16	9.00E-14	2.25E-14	7.24E-16	2.00E-14	5.00E-15	6.07E-16	9.00E-13	2.25E-13	4.75E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/11/1997	1.21E-15	9.00E-14	2.25E-14	7.39E-16	2.00E-14	5.00E-15	5.05E-16	9.00E-13	2.25E-13	4.92E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/5/1998	9.89E-16	9.00E-14	2.25E-14	1.92E-15	2.00E-14	5.00E-15	6.21E-16	9.00E-13	2.25E-13	4.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/28/1998	2.84E-15	9.00E-14	2.25E-14	2.38E-15	2.00E-14	5.00E-15	1.72E-15	9.00E-13	2.25E-13	7.35E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/31/1998	7.49E-16	9.00E-14	2.25E-14	1.49E-15	2.00E-14	5.00E-15	8.34E-16	9.00E-13	2.25E-13	7.01E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/28/1998	1.07E-15	9.00E-14	2.25E-14	9.20E-16	2.00E-14	5.00E-15	6.32E-16	9.00E-13	2.25E-13	3.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1998	8.51E-15	9.00E-14	2.25E-14	4.58E-15	2.00E-14	5.00E-15	4.58E-15	9.00E-13	2.25E-13	1.43E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/1999	3.75E-15	9.00E-14	2.25E-14	2.45E-15	2.00E-14	5.00E-15	2.39E-15	9.00E-13	2.25E-13	8.46E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/1999	1.53E-15	9.00E-14	2.25E-14	8.65E-16	2.00E-14	5.00E-15	6.52E-16	9.00E-13	2.25E-13	7.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/1999	5.83E-15	9.00E-14	2.25E-14	3.52E-15	2.00E-14	5.00E-15	2.55E-15	9.00E-13	2.25E-13	8.22E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1999	9.48E-15	9.00E-14	2.25E-14	6.20E-15	2.00E-14	5.00E-15	3.96E-15	9.00E-13	2.25E-13	7.56E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/27/2000	2.06E-15	9.00E-14	2.25E-14	1.27E-15	2.00E-14	5.00E-15	1.09E-15	9.00E-13	2.25E-13	7.72E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/26/2000	1.50E-15	9.00E-14	2.25E-14	1.24E-15	2.00E-14	5.00E-15	1.01E-15	9.00E-13	2.25E-13	4.36E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2000	1.04E-15	9.00E-14	2.25E-14	5.45E-16	2.00E-14	5.00E-15	6.01E-16	9.00E-13	2.25E-13	7.67E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/26/2000	1.48E-15	9.00E-14	2.25E-14	7.56E-16	2.00E-14	5.00E-15	6.84E-16	9.00E-13	2.25E-13	7.00E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/26/2001	4.27E-16	9.00E-14	2.25E-14	2.19E-16	2.00E-14	5.00E-15	1.89E-16	9.00E-13	2.25E-13	6.13E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2001	4.52E-16	9.00E-14	2.25E-14	4.02E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.48E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/24/2001	4.65E-16	9.00E-14	2.25E-14	2.06E-16	2.00E-14	5.00E-15	2.02E-16	9.00E-13	2.25E-13	6.98E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2001	7.40E-16	9.00E-14	2.25E-14	3.51E-16	2.00E-14	5.00E-15	3.64E-16	9.00E-13	2.25E-13	4.72E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/1/2002	1.26E-15	9.00E-14	2.25E-14	7.53E-16	2.00E-14	5.00E-15	7.19E-16	9.00E-13	2.25E-13	9.65E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/1/2002	1.02E-15	9.00E-14	2.25E-14	1.03E-15	2.00E-14	5.00E-15	3.39E-16	9.00E-13	2.25E-13	7.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2002	5.82E-16	9.00E-14	2.25E-14	9.28E-16	2.00E-14	5.00E-15	3.14E-16	9.00E-13	2.25E-13	4.48E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2002	1.00E-16	9.00E-14	2.25E-14	7.67E-16	2.00E-14	5.00E-15	3.48E-16	9.00E-13	2.25E-13	9.56E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2003	1.13E-15	9.00E-14	2.25E-14	7.41E-16	2.00E-14	5.00E-15	4.41E-16	9.00E-13	2.25E-13	6.68E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2003	4.35E-16	9.00E-14	2.25E-14	5.08E-16	2.00E-14	5.00E-15	2.51E-16	9.00E-13	2.25E-13	1.34E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/29/2003	1.51E-16	9.00E-14	2.25E-14	1.02E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.28E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/29/2003	1.52E-16	9.00E-14	2.25E-14	1.54E-16	2.00E-14	5.00E-15	1.51E-16	9.00E-13	2.25E-13	7.02E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/2004	1.00E-16	9.00E-14	2.25E-14	1.12E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.82E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/27/2004	1.18E-16	9.00E-14	2.25E-14	3.11E-16	2.00E-14	5.00E-15	1.25E-16	9.00E-13	2.25E-13	2.47E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/2004	1.16E-16	9.00E-14	2.25E-14	1.72E-16	2.00E-14	5.00E-15	1.18E-16	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/27/2004	1.14E-16	9.00E-14	2.25E-14	1.06E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.59E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/28/2005	1.00E-16	9.00E-14	2.25E-14	2.04E-16	2.00E-14	5.00E-15	1.83E-16	9.00E-13	2.25E-13	8.57E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/29/2005	1.83E-16	9.00E-14	2.25E-14	3.81E-16	2.00E-14	5.00E-15	3.09E-16	9.00E-13	2.25E-13	1.06E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2005	2.87E-16	9.00E-14	2.25E-14	8.21E-16	2.00E-14	5.00E-15	3.71E-14	9.00E-13	2.25E-13	6.28E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2006	8.74E-16	9.00E-14	2.25E-14	3.79E-16	2.00E-14	5.00E-15	1.31E-16	9.00E-13	2.25E-13	4.32E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-5U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-5T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-5R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-5PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-5T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-15 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
4/3/2006	5.22E-16	9.00E-14	2.25E-14	6.66E-16	2.00E-14	5.00E-15	1.11E-16	9.00E-13	2.25E-13	9.34E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/2006	3.08E-16	9.00E-14	2.25E-14	1.10E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.25E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/2/2006	9.14E-16	9.00E-14	2.25E-14	4.95E-16	2.00E-14	5.00E-15	1.86E-16	9.00E-13	2.25E-13	1.67E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/1/2007	9.49E-16	9.00E-14	2.25E-14	6.81E-16	2.00E-14	5.00E-15	2.02E-16	9.00E-13	2.25E-13	1.31E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/2/2007	1.08E-15	9.00E-14	2.25E-14	8.22E-16	2.00E-14	5.00E-15	2.26E-16	9.00E-13	2.25E-13	1.64E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2007	1.54E-15	9.00E-14	2.25E-14	8.16E-16	2.00E-14	5.00E-15	4.76E-16	9.00E-13	2.25E-13	2.12E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2007	4.90E-16	9.00E-14	2.25E-14	2.37E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.65E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2007	1.46E-15	9.00E-14	2.25E-14	5.67E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.02E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2008	3.16E-16	9.00E-14	2.25E-14	6.17E-16	2.00E-14	5.00E-15	3.71E-16	9.00E-13	2.25E-13	4.82E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2008	3.13E-15	9.00E-14	2.25E-14	1.55E-15	2.00E-14	5.00E-15	9.27E-16	9.00E-13	2.25E-13	7.40E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2008	7.08E-15	9.00E-14	2.25E-14	3.41E-15	2.00E-14	5.00E-15	2.52E-15	9.00E-13	2.25E-13	1.15E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2008	7.22E-15	9.00E-14	2.25E-14	2.82E-15	2.00E-14	5.00E-15	3.03E-15	9.00E-13	2.25E-13	1.59E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/15/2009	4.13E-15	9.00E-14	2.25E-14	1.39E-15	2.00E-14	5.00E-15	1.41E-15	9.00E-13	2.25E-13	4.66E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/15/2009	2.31E-16	9.00E-14	2.25E-14	7.79E-16	2.00E-14	5.00E-15	6.37E-16	9.00E-13	2.25E-13	4.18E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/15/2009	3.10E-15	9.00E-14	2.25E-14	9.20E-16	2.00E-14	5.00E-15	6.36E-16	9.00E-13	2.25E-13	1.21E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/15/2009	5.77E-15	9.00E-14	2.25E-14	3.13E-16	2.00E-14	5.00E-15	1.92E-16	9.00E-13	2.25E-13	2.48E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2010	4.78E-15	9.00E-14	2.25E-14	3.73E-16	2.00E-14	5.00E-15	4.19E-16	9.00E-13	2.25E-13	1.30E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2010	4.35E-15	9.00E-14	2.25E-14	7.84E-16	2.00E-14	5.00E-15	1.05E-15	9.00E-13	2.25E-13	4.40E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2010	3.57E-15	9.00E-14	2.25E-14	1.14E-15	2.00E-14	5.00E-15	7.97E-16	9.00E-13	2.25E-13	3.78E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2010	8.52E-15	9.00E-14	2.25E-14	1.45E-15	2.00E-14	5.00E-15	1.29E-15	9.00E-13	2.25E-13	1.33E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/4/2011	3.20E-15	9.00E-14	2.25E-14	8.89E-16	2.00E-14	5.00E-15	1.10E-15	9.00E-13	2.25E-13	1.48E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/4/2011	6.98E-15	9.00E-14	2.25E-14	2.03E-15	2.00E-14	5.00E-15	2.52E-15	9.00E-13	2.25E-13	1.08E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/3/2011	3.11E-15	9.00E-14	2.25E-14	1.14E-15	2.00E-14	5.00E-15	5.75E-16	9.00E-13	2.25E-13	1.41E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2012	4.44E-15	9.00E-14	2.25E-14	2.14E-15	2.00E-14	5.00E-15	1.53E-15	9.00E-13	2.25E-13	2.05E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2012	5.52E-15	9.00E-14	2.25E-14	3.24E-15	2.00E-14	5.00E-15	1.79E-15	9.00E-13	2.25E-13	1.55E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2012	5.87E-15	9.00E-14	2.25E-14	3.06E-15	2.00E-14	5.00E-15	1.21E-15	9.00E-13	2.25E-13	1.11E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/1/2012	6.73E-15	9.00E-14	2.25E-14	2.59E-15	2.00E-14	5.00E-15	2.43E-15	9.00E-13	2.25E-13	1.30E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2012	4.50E-15	9.00E-14	2.25E-14	1.62E-15	2.00E-14	5.00E-15	1.79E-15	9.00E-13	2.25E-13	1.74E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/25/2013	6.66E-15	9.00E-14	2.25E-14	1.48E-15	2.00E-14	5.00E-15	1.12E-15	9.00E-13	2.25E-13	1.80E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2013	7.35E-15	9.00E-14	2.25E-14	1.72E-15	2.00E-14	5.00E-15	2.02E-15	9.00E-13	2.25E-13	6.67E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2013	2.78E-15	9.00E-14	2.25E-14	6.92E-16	2.00E-14	5.00E-15	3.29E-16	9.00E-13	2.25E-13	6.62E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2013	6.70E-15	9.00E-14	2.25E-14	3.93E-16	2.00E-14	5.00E-15	2.53E-16	9.00E-13	2.25E-13	2.78E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2014	4.74E-15	9.00E-14	2.25E-14	1.42E-15	2.00E-14	5.00E-15	3.48E-15	9.00E-13	2.25E-13	1.50E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2014	8.18E-15	9.00E-14	2.25E-14	1.34E-15	2.00E-14	5.00E-15	1.76E-15	9.00E-13	2.25E-13	1.42E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2014	1.32E-14	9.00E-14	2.25E-14	7.76E-16	2.00E-14	5.00E-15	1.04E-15	9.00E-13	2.25E-13	1.23E-14	6.00E-13	1.50E-13	4.66E-17	4.00E-15	1.00E-15
12/29/2014	8.00E-16	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	3.00E-16	9.00E-13	2.25E-13	2.10E-14	6.00E-13	1.50E-13	8.00E-18	4.00E-15	1.00E-15
3/30/2015	1.00E-14	9.00E-14	2.25E-14	5.00E-16	2.00E-14	5.00E-15	2.10E-15	9.00E-13	2.25E-13	3.10E-14	6.00E-13	1.50E-13	3.00E-18	4.00E-15	1.00E-15
6/29/2015	4.60E-15	9.00E-14	2.25E-14	8.00E-16	2.00E-14	5.00E-15	3.70E-15	9.00E-13	2.25E-13	1.40E-14	6.00E-13	1.50E-13	2.00E-17	4.00E-15	1.00E-15


BHV-5 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
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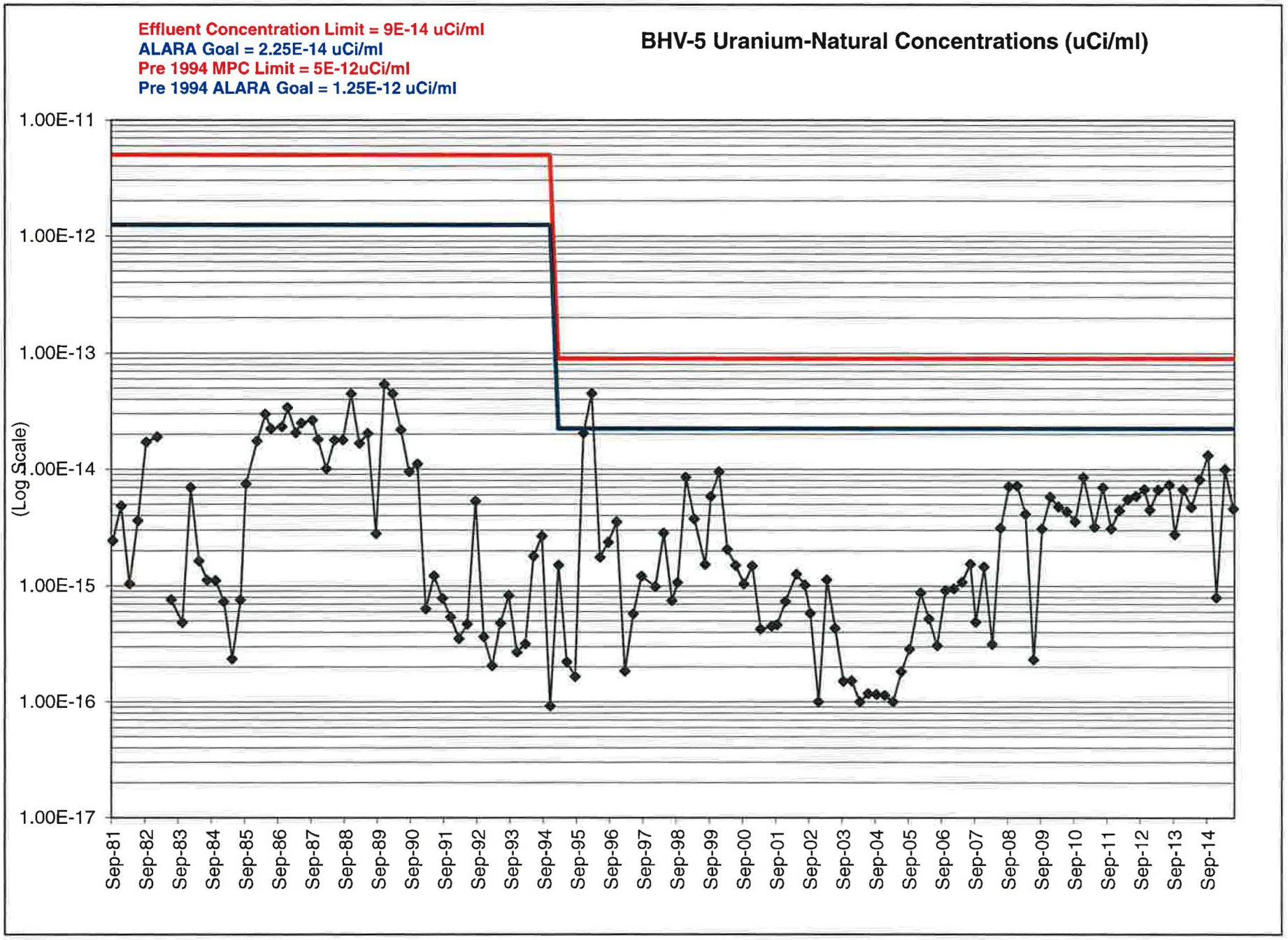
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
Sep-11
Sep-12
Sep-13
Sep-14
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-5 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
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Sep-98
Sep-99
Sep-00
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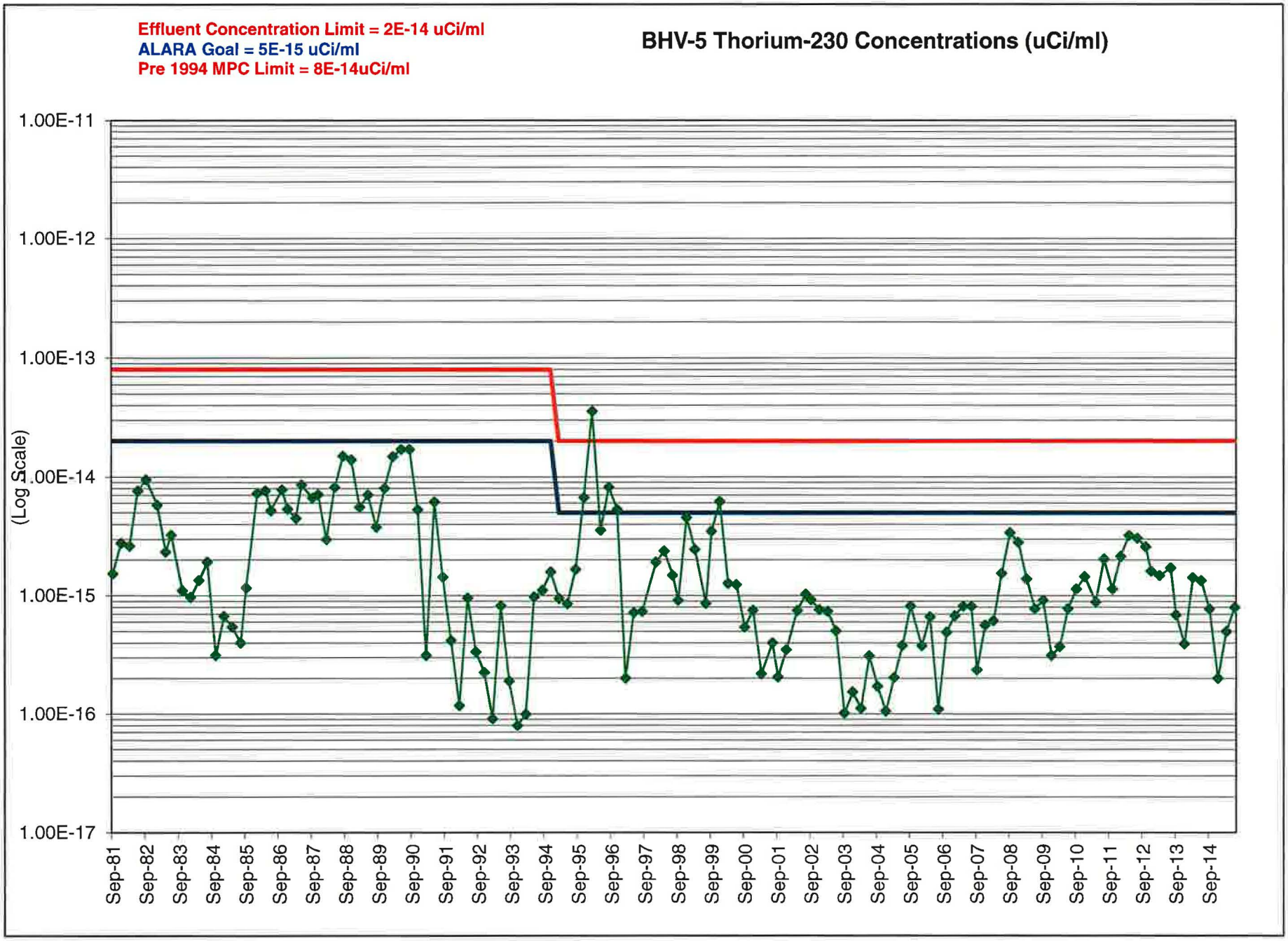
Sep-14


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-5 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
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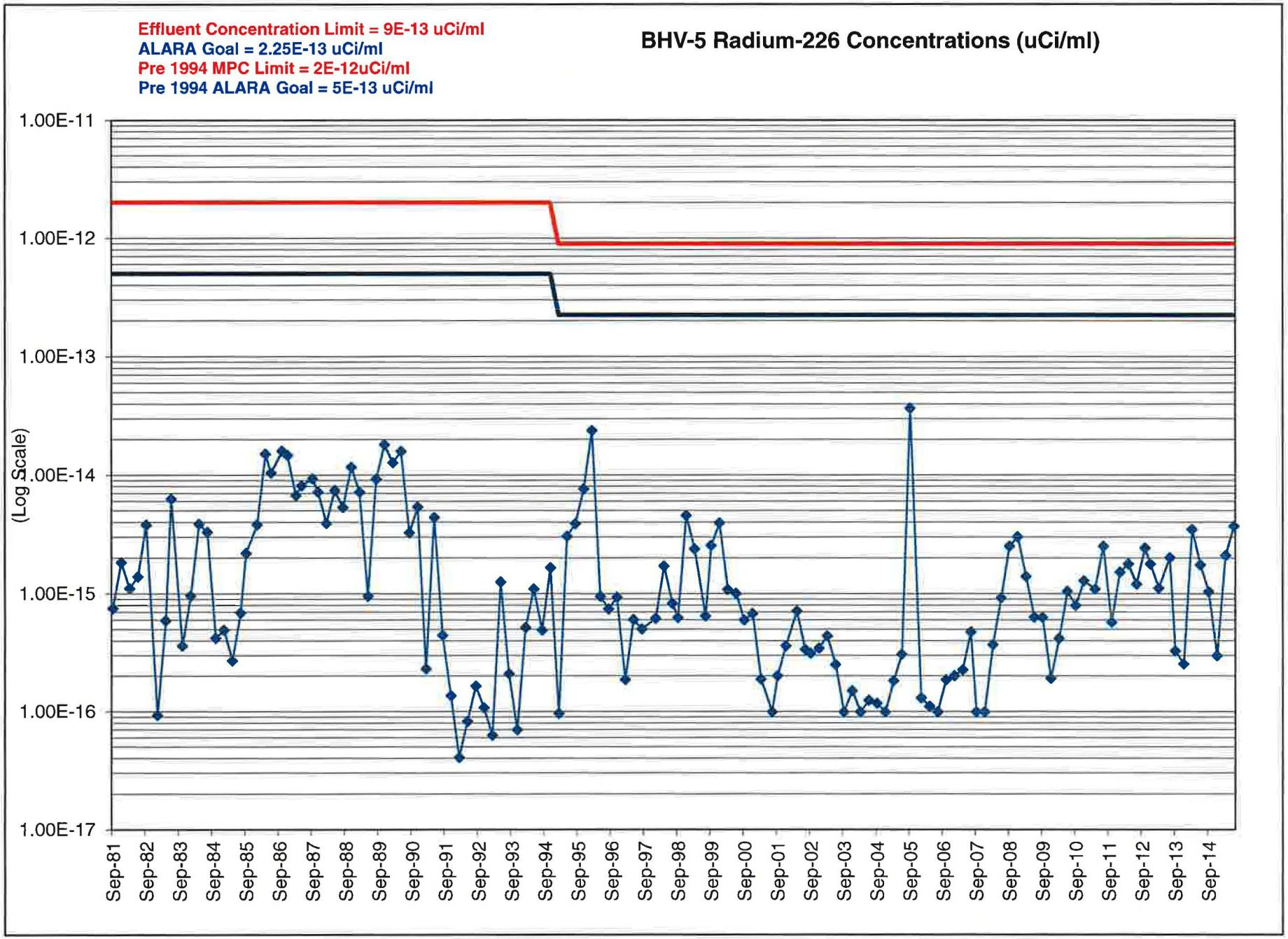
Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-5 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
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Sep-01
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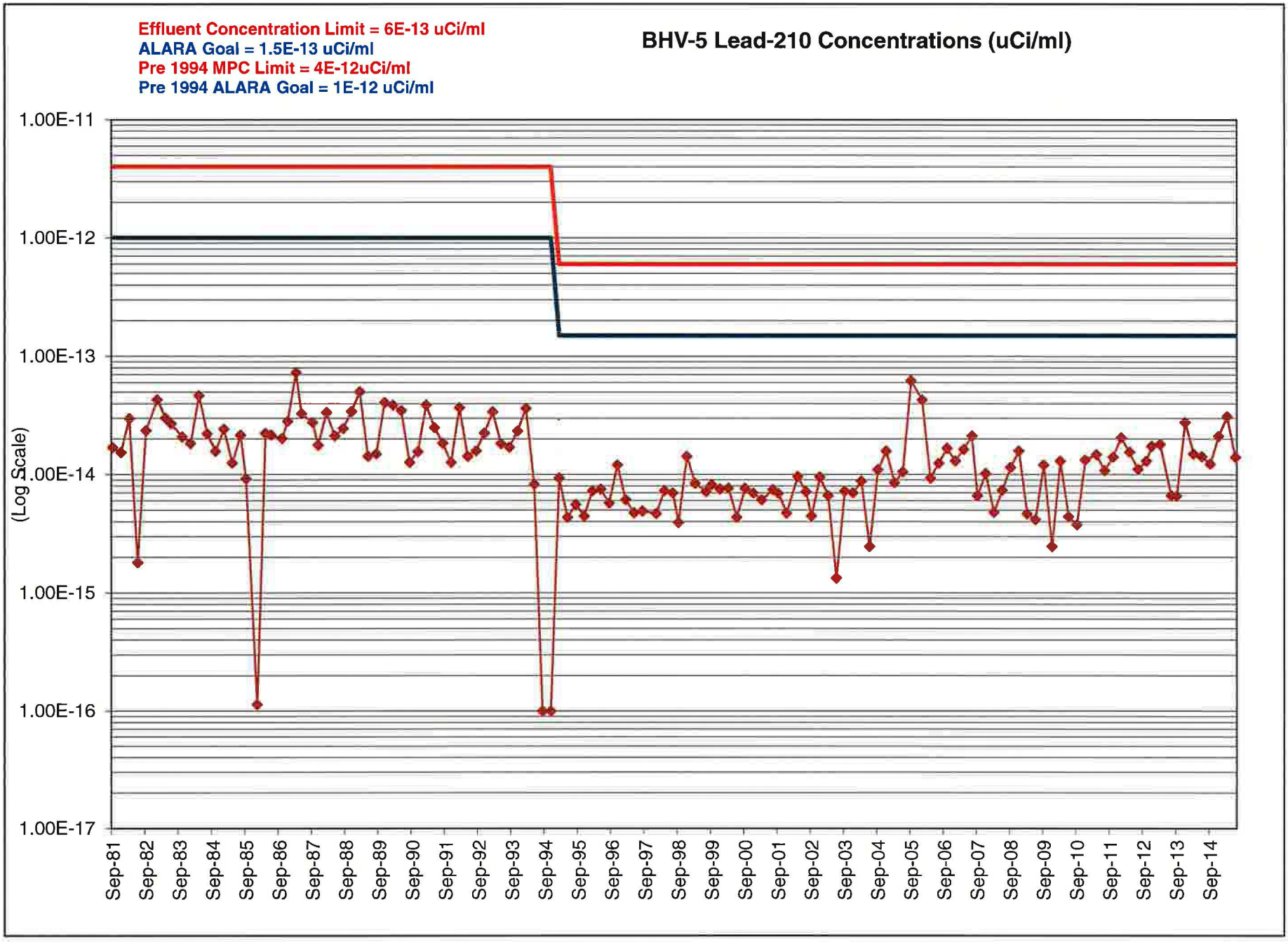
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-5 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
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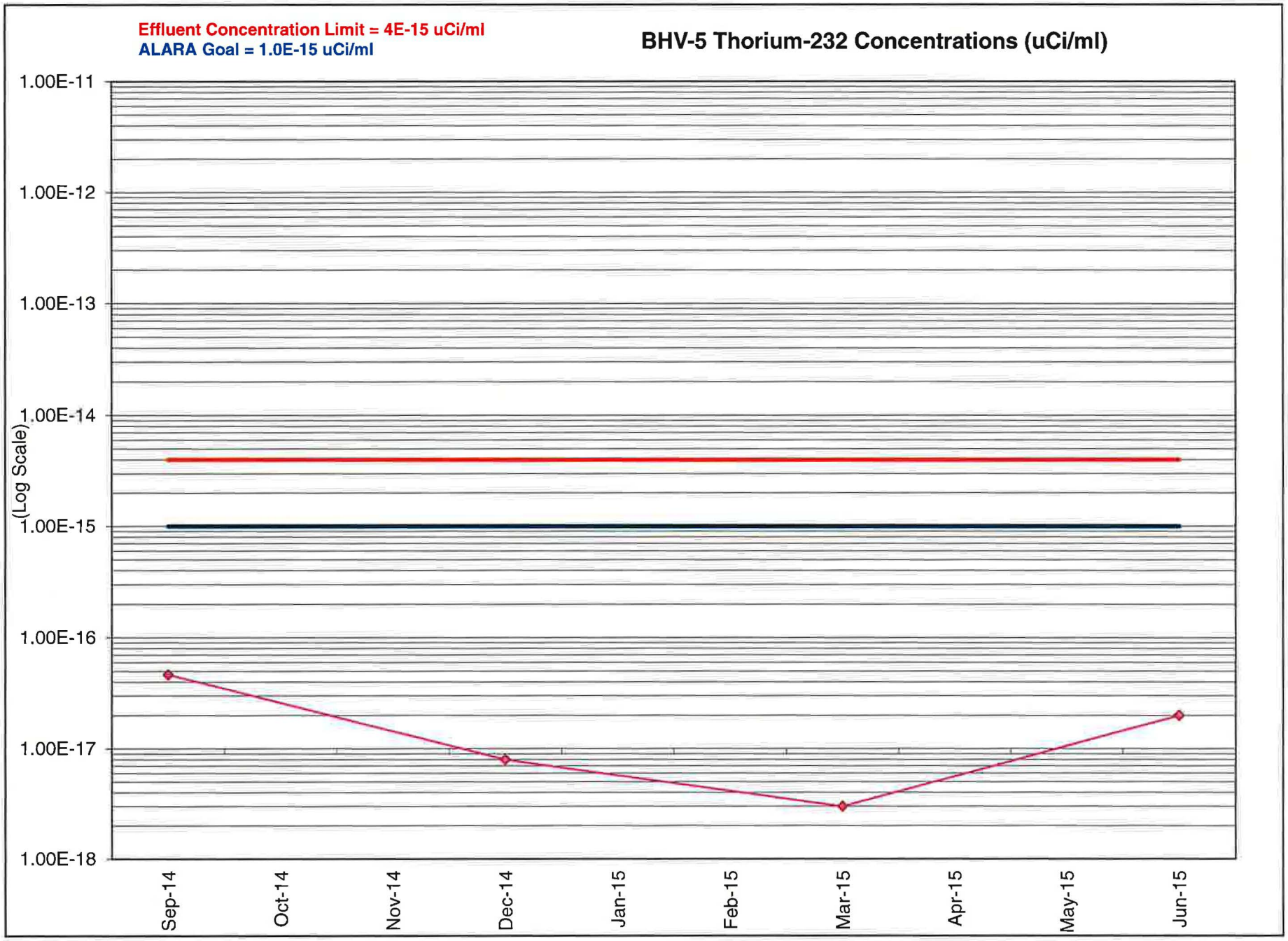
Sep-12
Sep-13
Sep-14


Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-5 Thorium-232 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
(Log Scale)
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15

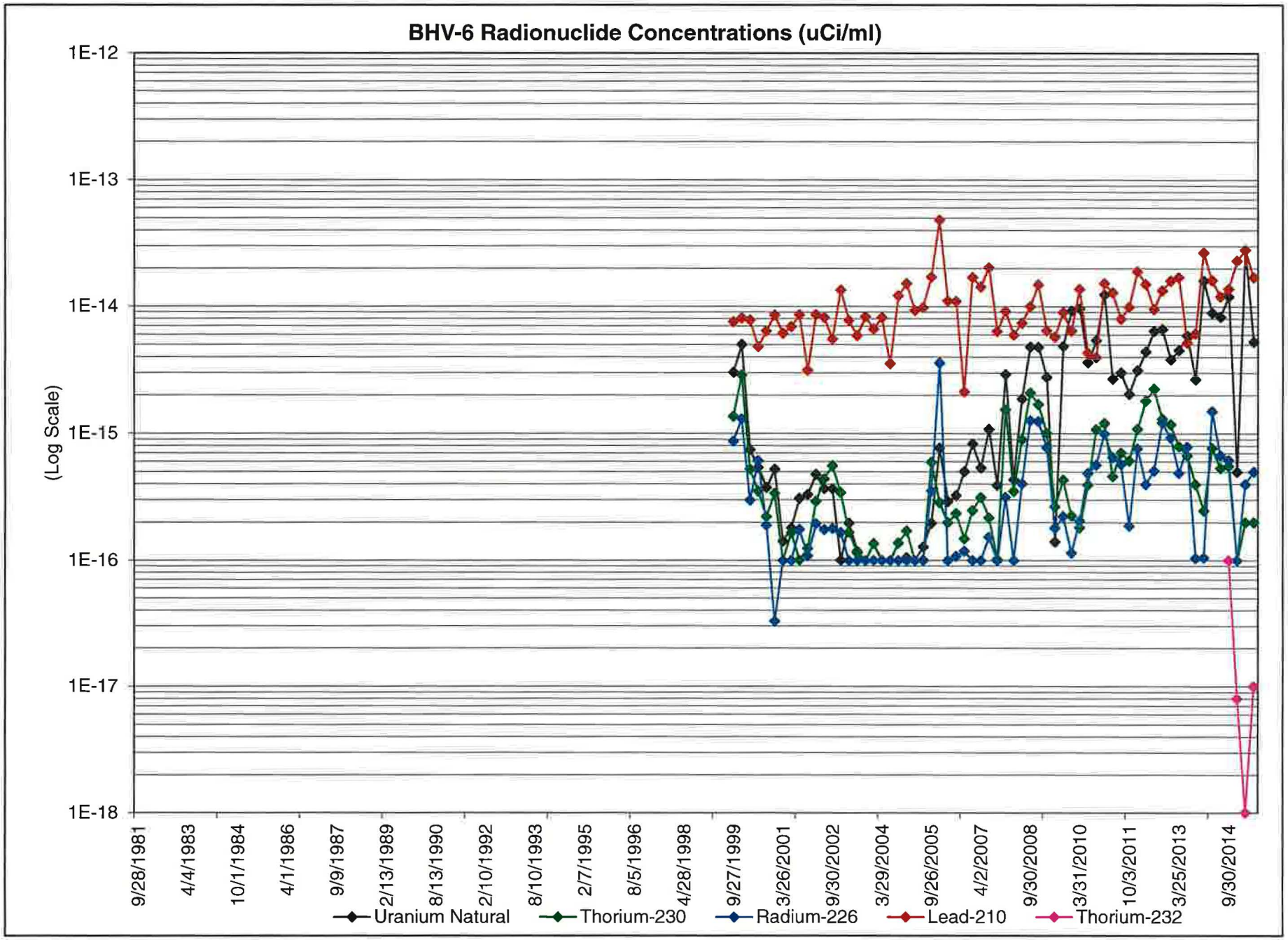
TAB 6

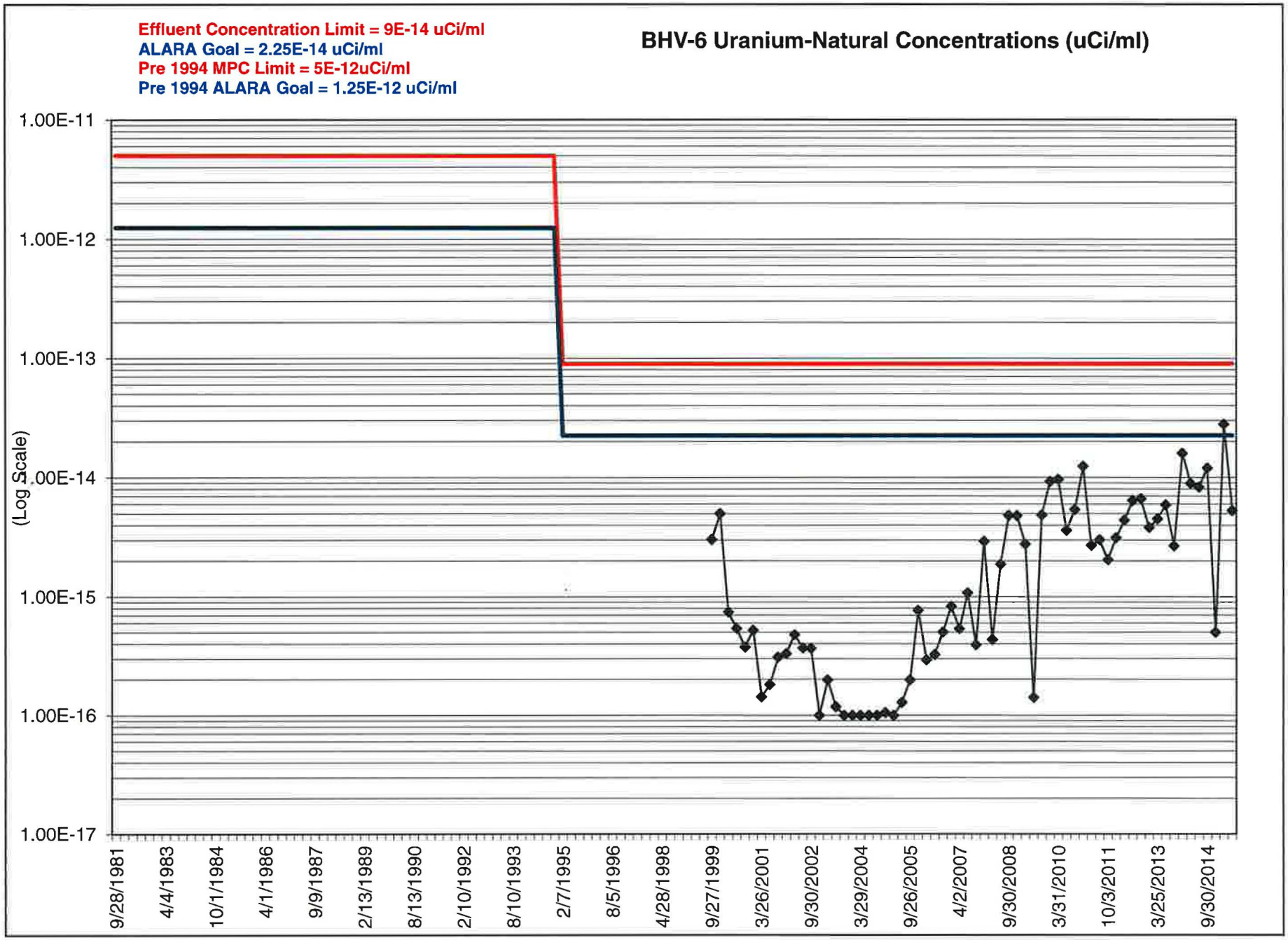
BHV-6 AIR SAMPLING GRAPHS AND DATA TABLE

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-6U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-6T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-6R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-6PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-6T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
9/28/1981		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/14/1981		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/29/1982		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1982		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/27/1982		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1983		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/4/1983		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1983		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/3/1983		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/3/1984		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/2/1984		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/2/1984		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/1/1984		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1985		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1985		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
7/1/1985		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/30/1985		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
1/2/1986		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
4/1/1986		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
6/30/1986		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
10/27/1986		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
12/15/1986		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
3/16/1987		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1987		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
9/9/1987		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/2/1987		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/16/1988		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/18/1988		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/15/1988		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/14/1988		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/13/1989		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/15/1989		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/14/1989		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/13/1989		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/12/1990		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/14/1990		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/13/1990		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/12/1990		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/11/1991		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/13/1991		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/12/1991		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/11/1991		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/10/1992		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/11/1992		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1992		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/9/1992		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/9/1993		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/10/1993		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/10/1993		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-6U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-6T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-6R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-6PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-6T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
11/8/1993		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1994		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
5/9/1994		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
8/9/1994		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
11/7/1994		5.00E-12	1.25E-12		8.00E-14	2.00E-14		2.00E-12	5.00E-13		4.00E-12	1.00E-12	Not Analyzed	Not Applicable	Not Applicable
2/7/1995		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/9/1995		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/9/1995		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/11/1995		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/5/1996		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/6/1996		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/5/1996		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
11/6/1996		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
2/6/1997		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
5/5/1997		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
8/11/1997		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/5/1998		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/28/1998		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/31/1998		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/28/1998		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1998		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/1999		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/1999		9.00E-14	2.25E-14		2.00E-14	5.00E-15		9.00E-13	2.25E-13		6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/1999	3.03E-15	9.00E-14	2.25E-14	1.37E-15	2.00E-14	5.00E-15	8.72E-16	9.00E-13	2.25E-13	7.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/28/1999	5.01E-15	9.00E-14	2.25E-14	2.89E-15	2.00E-14	5.00E-15	1.31E-15	9.00E-13	2.25E-13	8.10E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/30/2000	7.46E-16	9.00E-14	2.25E-14	5.25E-16	2.00E-14	5.00E-15	3.00E-16	9.00E-13	2.25E-13	7.83E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/26/2000	5.40E-16	9.00E-14	2.25E-14	3.53E-16	2.00E-14	5.00E-15	6.11E-16	9.00E-13	2.25E-13	4.83E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/25/2000	3.75E-16	9.00E-14	2.25E-14	2.23E-16	2.00E-14	5.00E-15	1.91E-16	9.00E-13	2.25E-13	6.41E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/26/2000	5.21E-16	9.00E-14	2.25E-14	3.39E-16	2.00E-14	5.00E-15	3.28E-17	9.00E-13	2.25E-13	8.57E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/26/2001	1.42E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.15E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2001	1.81E-16	9.00E-14	2.25E-14	1.66E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.95E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/24/2001	3.08E-16	9.00E-14	2.25E-14	1.01E-16	2.00E-14	5.00E-15	1.77E-16	9.00E-13	2.25E-13	8.59E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2001	3.31E-16	9.00E-14	2.25E-14	1.25E-16	2.00E-14	5.00E-15	1.09E-16	9.00E-13	2.25E-13	3.14E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/1/2002	4.77E-16	9.00E-14	2.25E-14	2.94E-16	2.00E-14	5.00E-15	1.96E-16	9.00E-13	2.25E-13	8.61E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/1/2002	3.68E-16	9.00E-14	2.25E-14	4.41E-16	2.00E-14	5.00E-15	1.76E-16	9.00E-13	2.25E-13	8.20E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2002	3.67E-16	9.00E-14	2.25E-14	5.60E-16	2.00E-14	5.00E-15	1.80E-16	9.00E-13	2.25E-13	5.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2002	1.00E-16	9.00E-14	2.25E-14	3.43E-16	2.00E-14	5.00E-15	1.67E-16	9.00E-13	2.25E-13	1.35E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2003	1.98E-16	9.00E-14	2.25E-14	1.68E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	7.77E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2003	1.18E-16	9.00E-14	2.25E-14	1.15E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.92E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/29/2003	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.30E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/29/2003	1.00E-16	9.00E-14	2.25E-14	1.36E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.66E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/29/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	8.17E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/27/2004	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	3.55E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/27/2004	1.00E-16	9.00E-14	2.25E-14	1.38E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.22E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/27/2004	1.05E-16	9.00E-14	2.25E-14	1.72E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.52E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/28/2005	1.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.34E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/29/2005	1.28E-16	9.00E-14	2.25E-14	1.01E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	9.85E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/26/2005	1.98E-16	9.00E-14	2.25E-14	5.98E-16	2.00E-14	5.00E-15	3.55E-16	9.00E-13	2.25E-13	1.71E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2006	7.67E-16	9.00E-14	2.25E-14	2.88E-16	2.00E-14	5.00E-15	3.60E-15	9.00E-13	2.25E-13	4.85E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable

Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-6U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-6T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-6R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-6PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-6T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
4/3/2006	2.92E-16	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.11E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/3/2006	3.25E-16	9.00E-14	2.25E-14	2.36E-16	2.00E-14	5.00E-15	1.08E-16	9.00E-13	2.25E-13	1.10E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/2/2006	5.03E-16	9.00E-14	2.25E-14	1.49E-16	2.00E-14	5.00E-15	1.19E-16	9.00E-13	2.25E-13	2.13E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/1/2007	8.31E-16	9.00E-14	2.25E-14	2.49E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.70E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/2/2007	5.36E-16	9.00E-14	2.25E-14	3.15E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	1.43E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2007	1.08E-15	9.00E-14	2.25E-14	2.18E-16	2.00E-14	5.00E-15	1.54E-16	9.00E-13	2.25E-13	2.04E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2007	3.92E-16	9.00E-14	2.25E-14	1.02E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	6.38E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2007	2.92E-15	9.00E-14	2.25E-14	1.55E-15	2.00E-14	5.00E-15	3.16E-16	9.00E-13	2.25E-13	9.19E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2008	4.34E-16	9.00E-14	2.25E-14	3.51E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	5.99E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/3102008	1.88E-15	9.00E-14	2.25E-14	9.00E-16	2.00E-14	5.00E-15	4.04E-16	9.00E-13	2.25E-13	7.41E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2008	4.82E-15	9.00E-14	2.25E-14	2.10E-15	2.00E-14	5.00E-15	1.27E-15	9.00E-13	2.25E-13	1.00E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2008	4.80E-15	9.00E-14	2.25E-14	1.70E-15	2.00E-14	5.00E-15	1.25E-15	9.00E-13	2.25E-13	1.49E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/15/2009	2.77E-15	9.00E-14	2.25E-14	1.01E-15	2.00E-14	5.00E-15	7.82E-16	9.00E-13	2.25E-13	6.46E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/15/2009	1.41E-16	9.00E-14	2.25E-14	2.67E-16	2.00E-14	5.00E-15	1.81E-16	9.00E-13	2.25E-13	5.76E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/15/2009	4.87E-15	9.00E-14	2.25E-14	4.32E-16	2.00E-14	5.00E-15	2.23E-16	9.00E-13	2.25E-13	8.98E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/15/2009	9.24E-15	9.00E-14	2.25E-14	2.26E-16	2.00E-14	5.00E-15	1.15E-16	9.00E-13	2.25E-13	6.44E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2010	9.63E-15	9.00E-14	2.25E-14	1.82E-16	2.00E-14	5.00E-15	2.06E-16	9.00E-13	2.25E-13	1.37E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2010	3.62E-15	9.00E-14	2.25E-14	3.94E-16	2.00E-14	5.00E-15	4.89E-16	9.00E-13	2.25E-13	4.30E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2010	5.42E-15	9.00E-14	2.25E-14	1.08E-15	2.00E-14	5.00E-15	5.68E-16	9.00E-13	2.25E-13	3.98E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2010	1.24E-14	9.00E-14	2.25E-14	1.21E-15	2.00E-14	5.00E-15	1.00E-15	9.00E-13	2.25E-13	1.53E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/4/2011	2.70E-15	9.00E-14	2.25E-14	4.62E-16	2.00E-14	5.00E-15	6.51E-16	9.00E-13	2.25E-13	1.29E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/4/2011	3.01E-15	9.00E-14	2.25E-14	7.07E-16	2.00E-14	5.00E-15	5.75E-16	9.00E-13	2.25E-13	7.97E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/3/2011	2.05E-15	9.00E-14	2.25E-14	6.12E-16	2.00E-14	5.00E-15	1.88E-16	9.00E-13	2.25E-13	9.93E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
1/3/2012	3.14E-15	9.00E-14	2.25E-14	1.09E-15	2.00E-14	5.00E-15	7.65E-16	9.00E-13	2.25E-13	1.89E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
4/3/2012	4.41E-15	9.00E-14	2.25E-14	1.82E-15	2.00E-14	5.00E-15	4.00E-16	9.00E-13	2.25E-13	1.50E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2012	6.42E-15	9.00E-14	2.25E-14	2.25E-15	2.00E-14	5.00E-15	5.11E-16	9.00E-13	2.25E-13	9.54E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
10/1/2012	6.63E-15	9.00E-14	2.25E-14	1.31E-15	2.00E-14	5.00E-15	1.22E-15	9.00E-13	2.25E-13	1.34E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/31/2012	3.83E-15	9.00E-14	2.25E-14	1.18E-15	2.00E-14	5.00E-15	9.30E-16	9.00E-13	2.25E-13	1.60E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/25/2013	4.52E-15	9.00E-14	2.25E-14	7.93E-16	2.00E-14	5.00E-15	4.91E-16	9.00E-13	2.25E-13	1.70E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
7/2/2013	5.91E-15	9.00E-14	2.25E-14	6.74E-16	2.00E-14	5.00E-15	7.85E-16	9.00E-13	2.25E-13	5.18E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2013	2.68E-15	9.00E-14	2.25E-14	3.97E-16	2.00E-14	5.00E-15	1.04E-16	9.00E-13	2.25E-13	6.13E-15	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
12/30/2013	1.60E-14	9.00E-14	2.25E-14	2.48E-16	2.00E-14	5.00E-15	1.05E-16	9.00E-13	2.25E-13	2.67E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
3/31/2014	8.92E-15	9.00E-14	2.25E-14	7.68E-16	2.00E-14	5.00E-15	1.50E-15	9.00E-13	2.25E-13	1.61E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
6/30/2014	8.29E-15	9.00E-14	2.25E-14	5.35E-16	2.00E-14	5.00E-15	6.72E-16	9.00E-13	2.25E-13	1.20E-14	6.00E-13	1.50E-13	Not Analyzed	Not Applicable	Not Applicable
9/30/2014	1.20E-14	9.00E-14	2.25E-14	5.54E-16	2.00E-14	5.00E-15	6.18E-16	9.00E-13	2.25E-13	1.38E-14	6.00E-13	1.50E-13	1.00E-16	4.00E-15	1.00E-15
12/29/2014	5.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.30E-14	6.00E-13	1.50E-13	8.00E-18	4.00E-15	1.00E-15
3/30/2015	2.80E-14	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	4.00E-16	9.00E-13	2.25E-13	2.80E-14	6.00E-13	1.50E-13	1.00E-18	4.00E-15	1.00E-15
6/29/2015	5.30E-15	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	5.00E-16	9.00E-13	2.25E-13	1.70E-14	6.00E-13	1.50E-13	1.00E-17	4.00E-15	1.00E-15


BHV-6 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1E-12
1E-13
1E-14
1E-15
1E-16
1E-17
1E-18
9/28/1981
4/4/1983
10/1/1984
4/1/1986
9/9/1987
2/13/1989
8/13/1990
2/10/1992
8/10/1993
2/7/1995
8/5/1996
4/28/1998
9/27/1999
3/26/2001
9/30/2002
3/29/2004
9/26/2005
4/2/2007
9/30/2008
3/31/2010
10/3/2011
3/25/2013
9/30/2014
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-6 Uranium-Natural Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
9/28/1981
4/4/1983
10/1/1984
4/1/1986
9/9/1987
2/13/1989
8/13/1990
2/10/1992
8/10/1993
2/7/1995
8/5/1996
4/28/1998
9/27/1999
3/26/2001
9/30/2002
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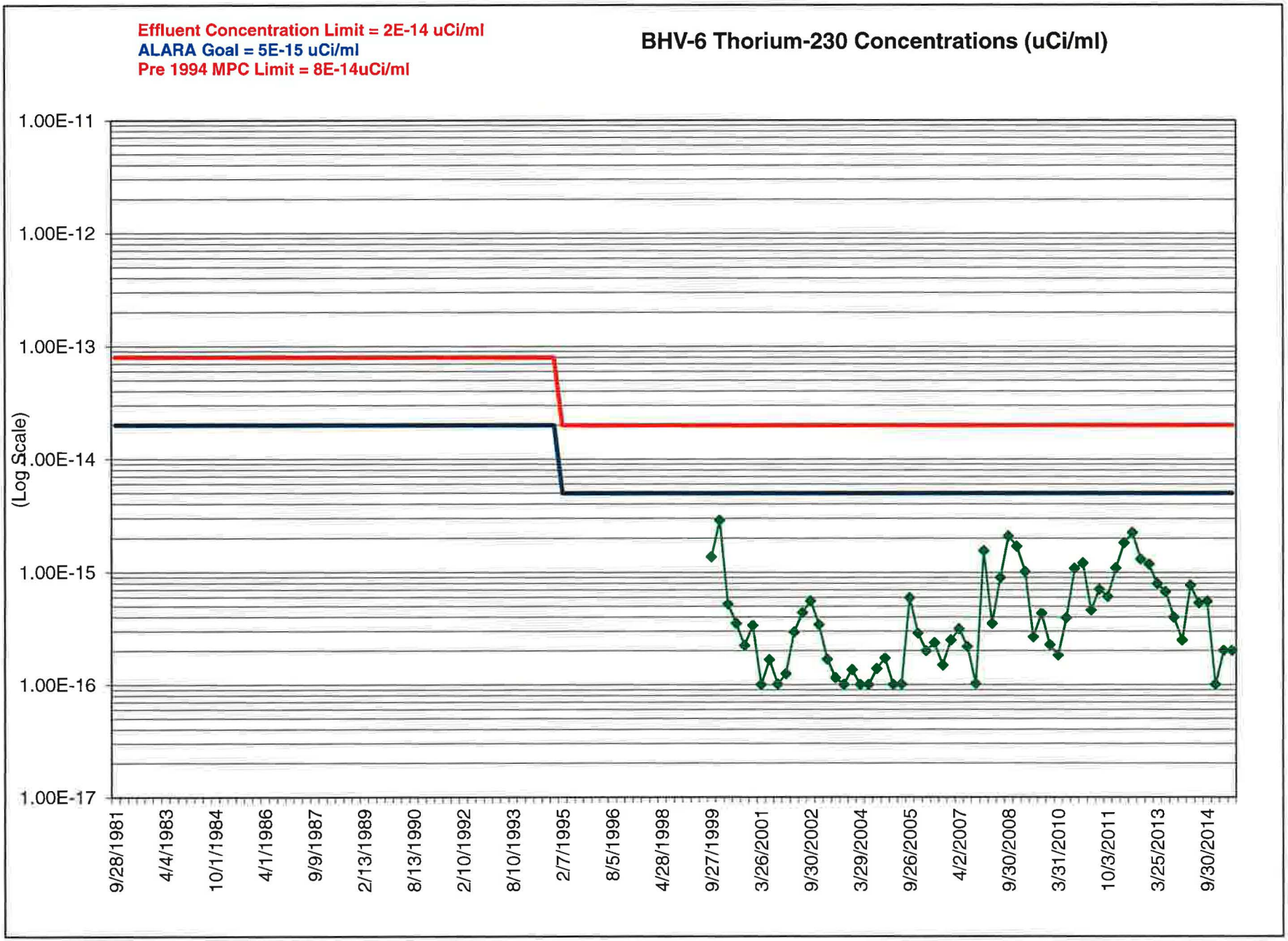
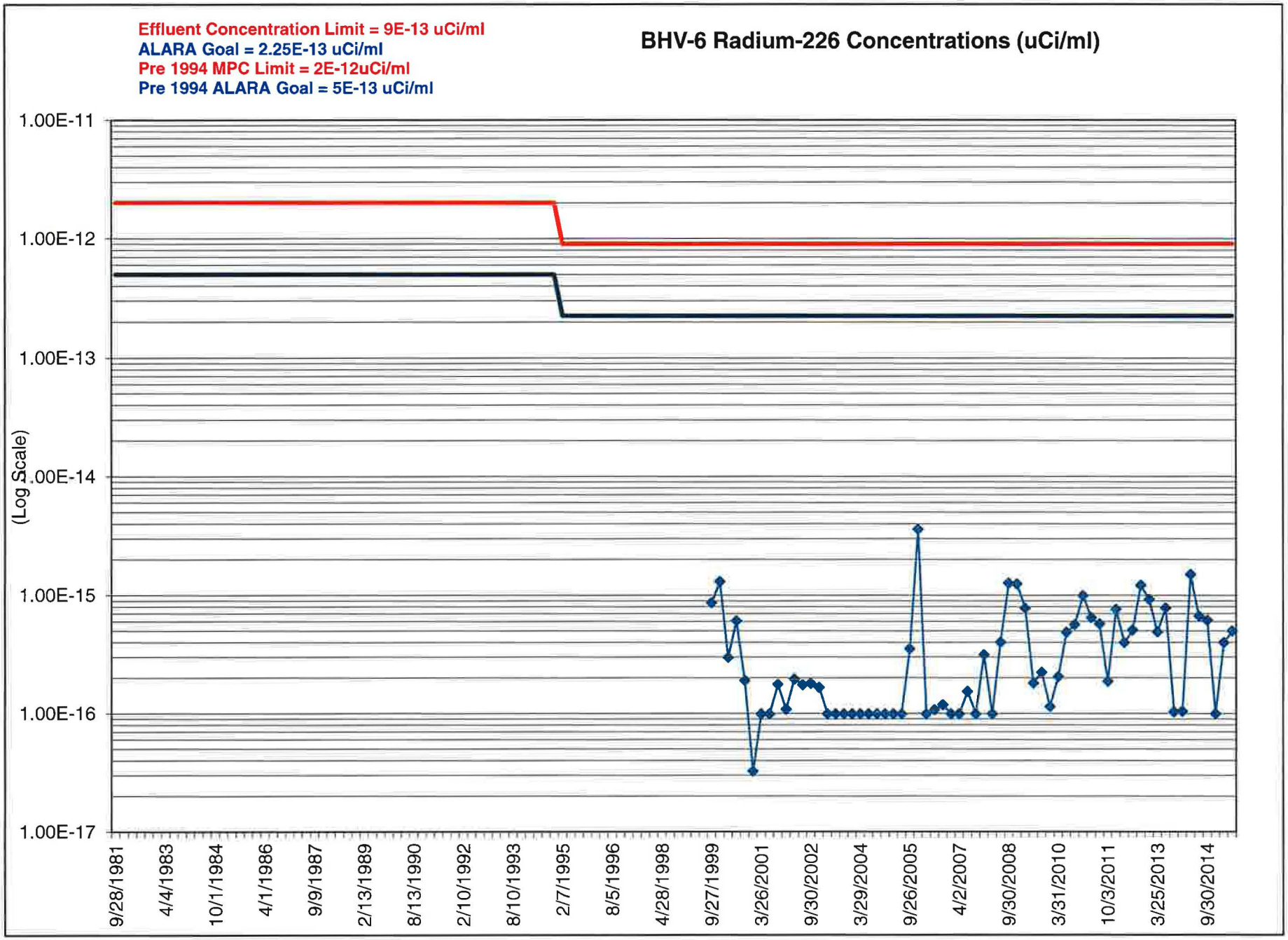
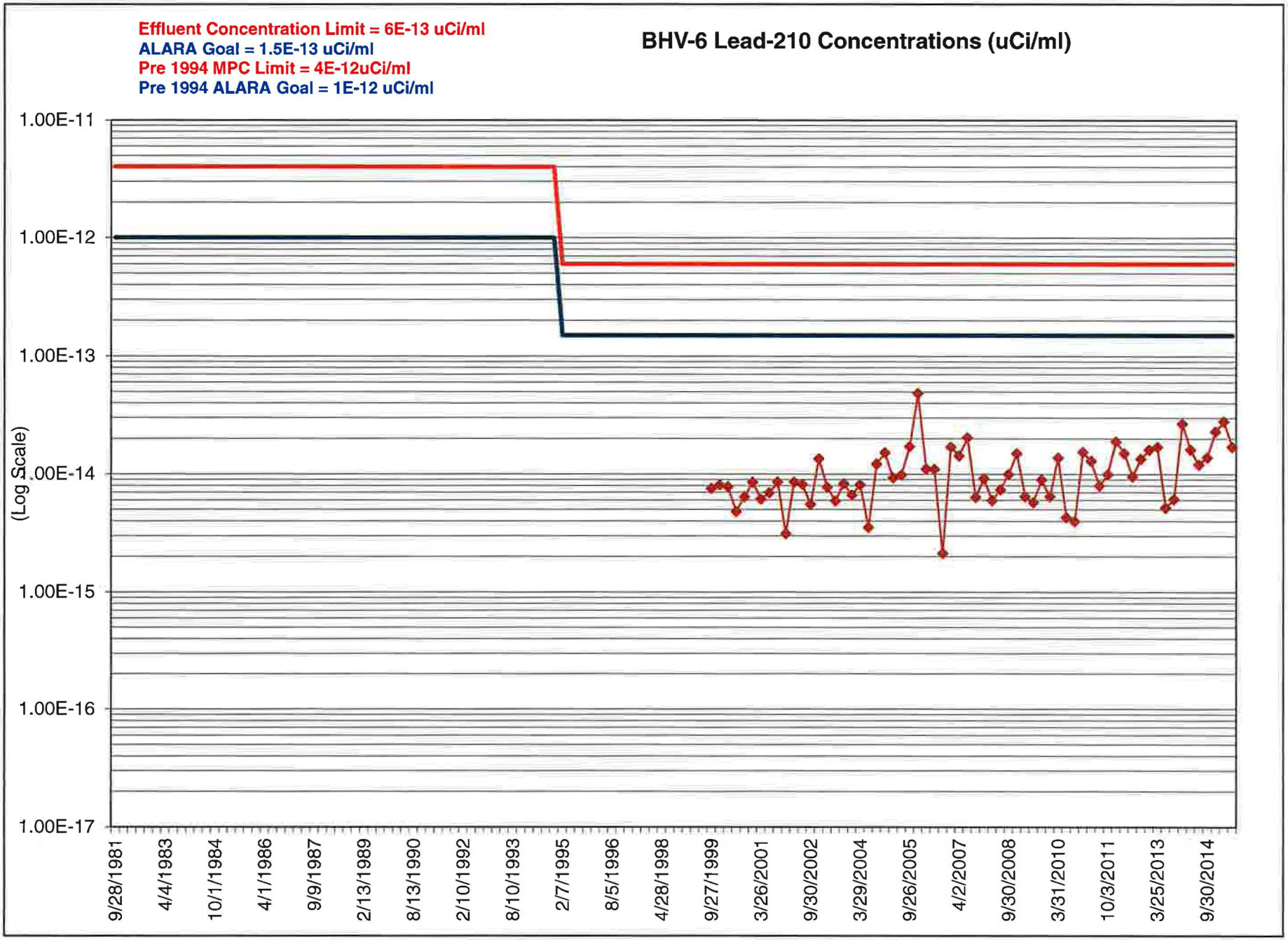
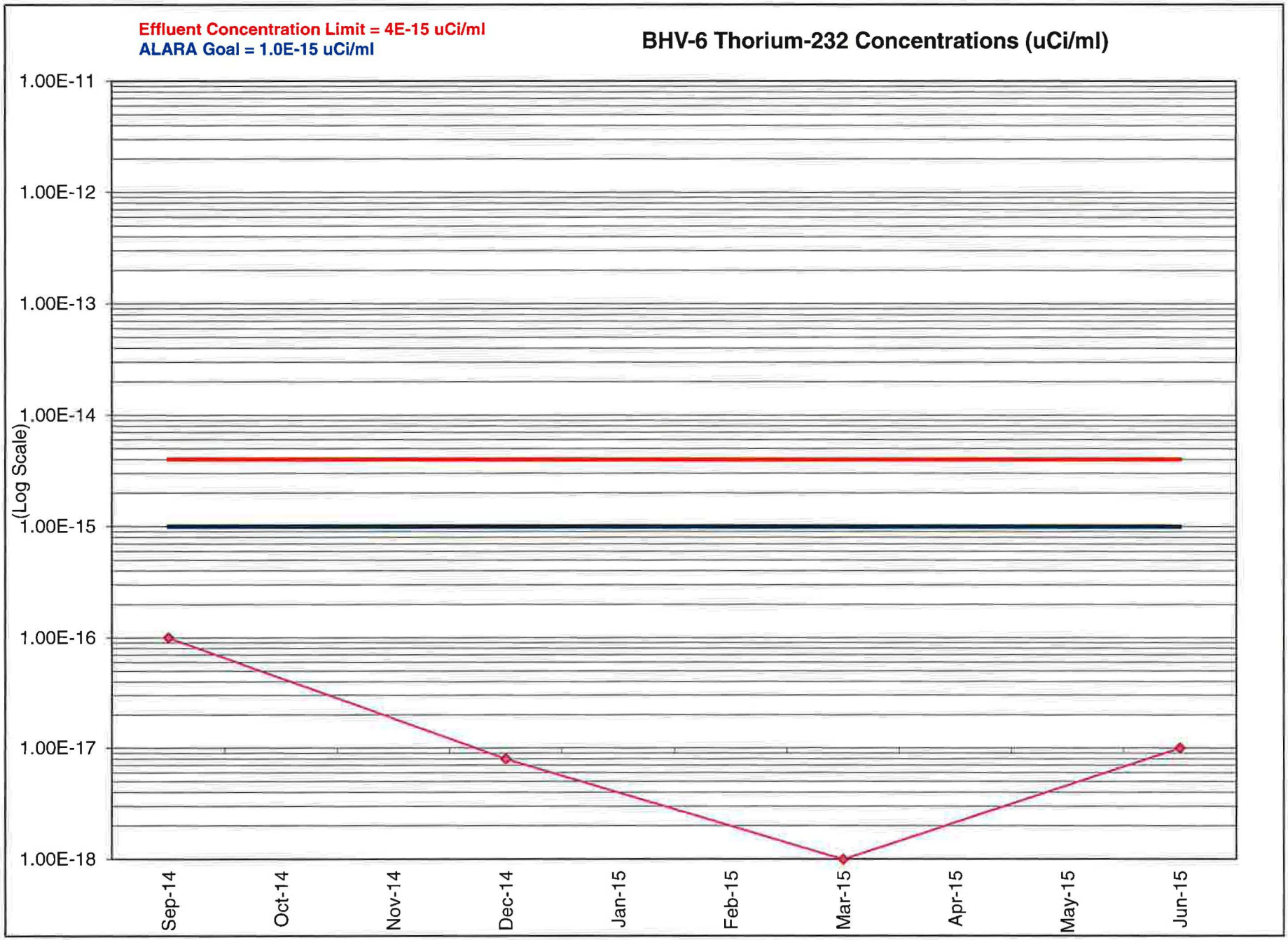
3/25/2013
9/30/2014


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-6 Thorium-230 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
9/28/1981
4/4/1983
10/1/1984
4/1/1986
9/9/1987
2/13/1989
8/13/1990
2/10/1992
8/10/1993
2/7/1995
8/5/1996
4/28/1998
9/27/1999
3/26/2001
9/30/2002
3/29/2004
9/26/2005
4/2/2007
9/30/2008
3/31/2010
10/3/2011
3/25/2013
9/30/2014


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-6 Radium-226 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
9/28/1981
4/4/1983
10/1/1984
4/1/1986
9/9/1987
2/13/1989
8/13/1990
2/10/1992
8/10/1993
2/7/1995
8/5/1996
4/28/1998
9/27/1999
3/26/2001
9/30/2002
3/29/2004
9/26/2005
4/2/2007
9/30/2008
3/31/2010
10/3/2011
3/25/2013
9/30/2014

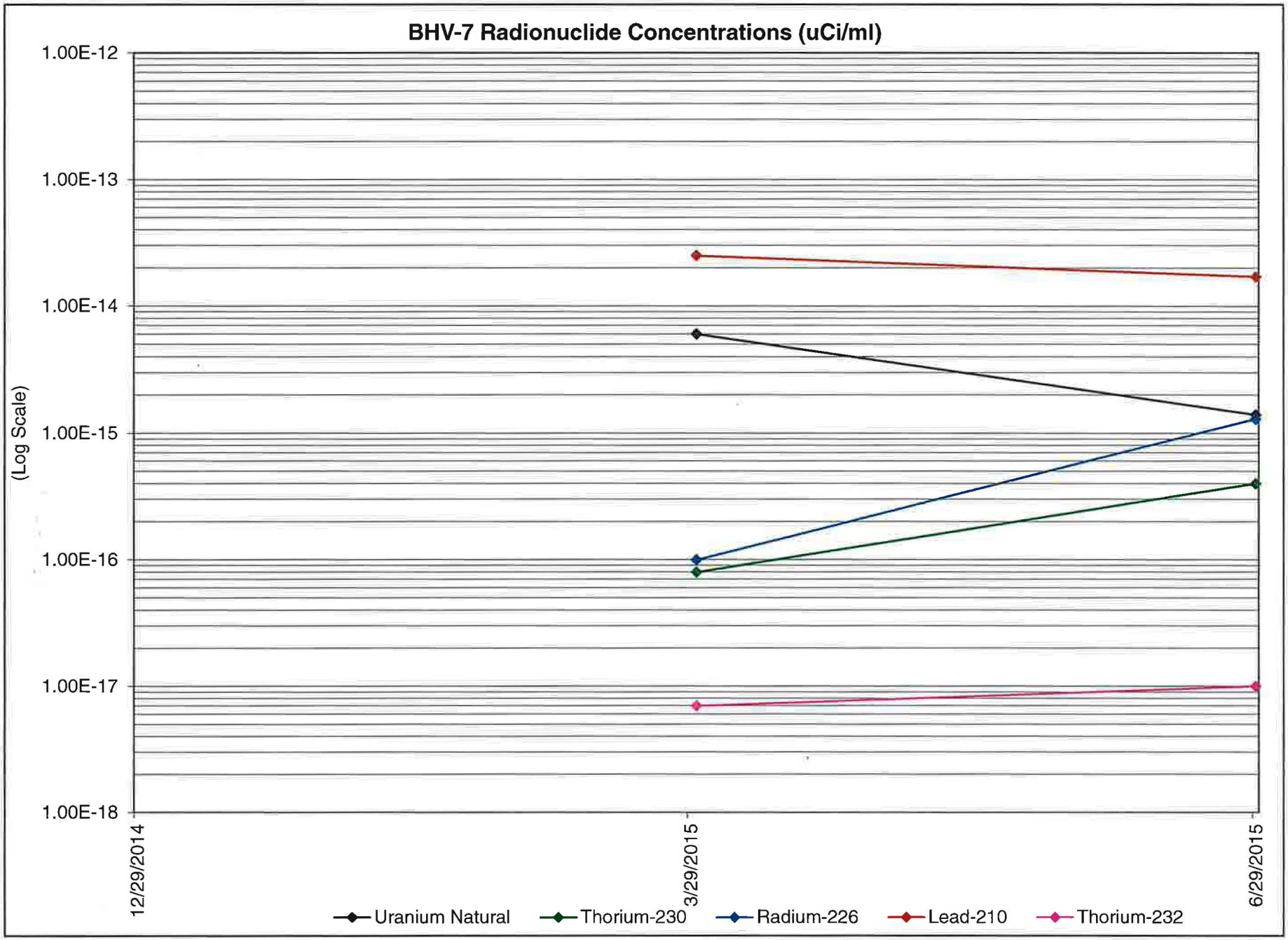

Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-6 Lead-210 Concentrations (uCi/ml)
(Log Scale)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
9/28/1981
4/4/1983
10/1/1984
4/1/1986
9/9/1987
2/13/1989
8/13/1990
2/10/1992
8/10/1993
2/7/1995
8/5/1996
4/28/1998
9/27/1999
3/26/2001
9/30/2002
3/29/2004
9/26/2005
4/2/2007
9/30/2008
3/31/2010
10/3/2011
3/25/2013
9/30/2014

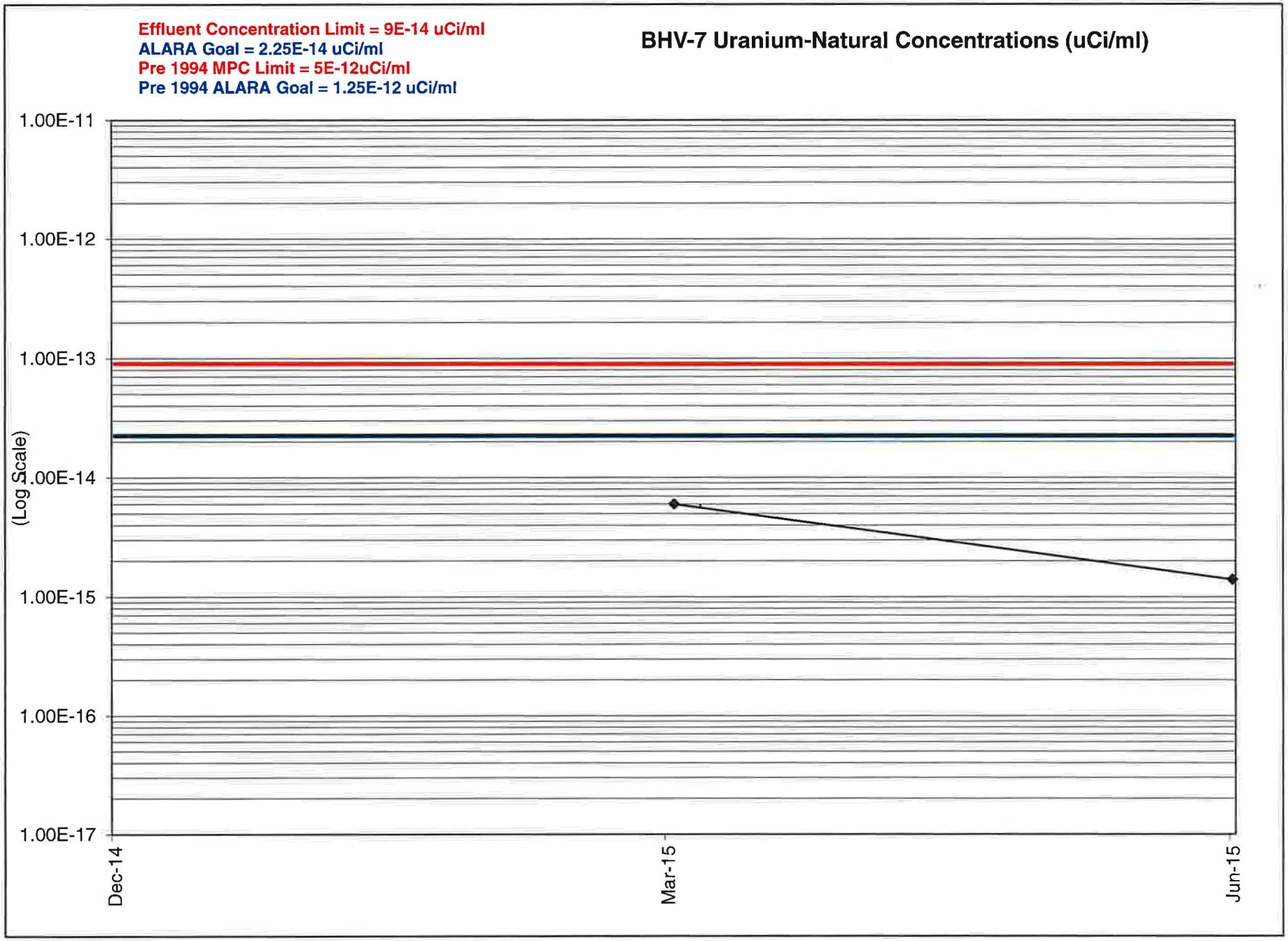

Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-6 Thorium-232 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
(Log Scale)
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15

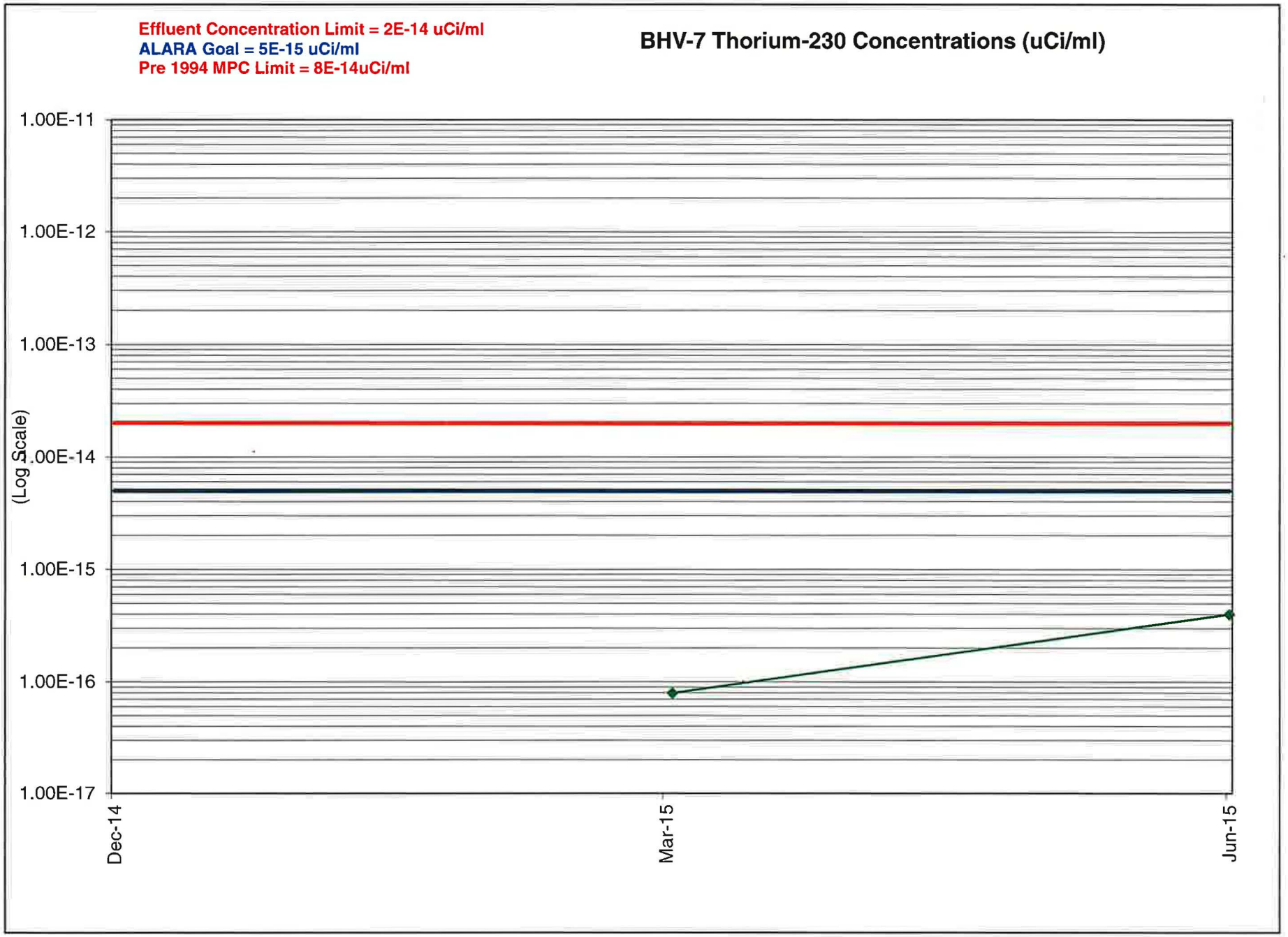
TAB 7

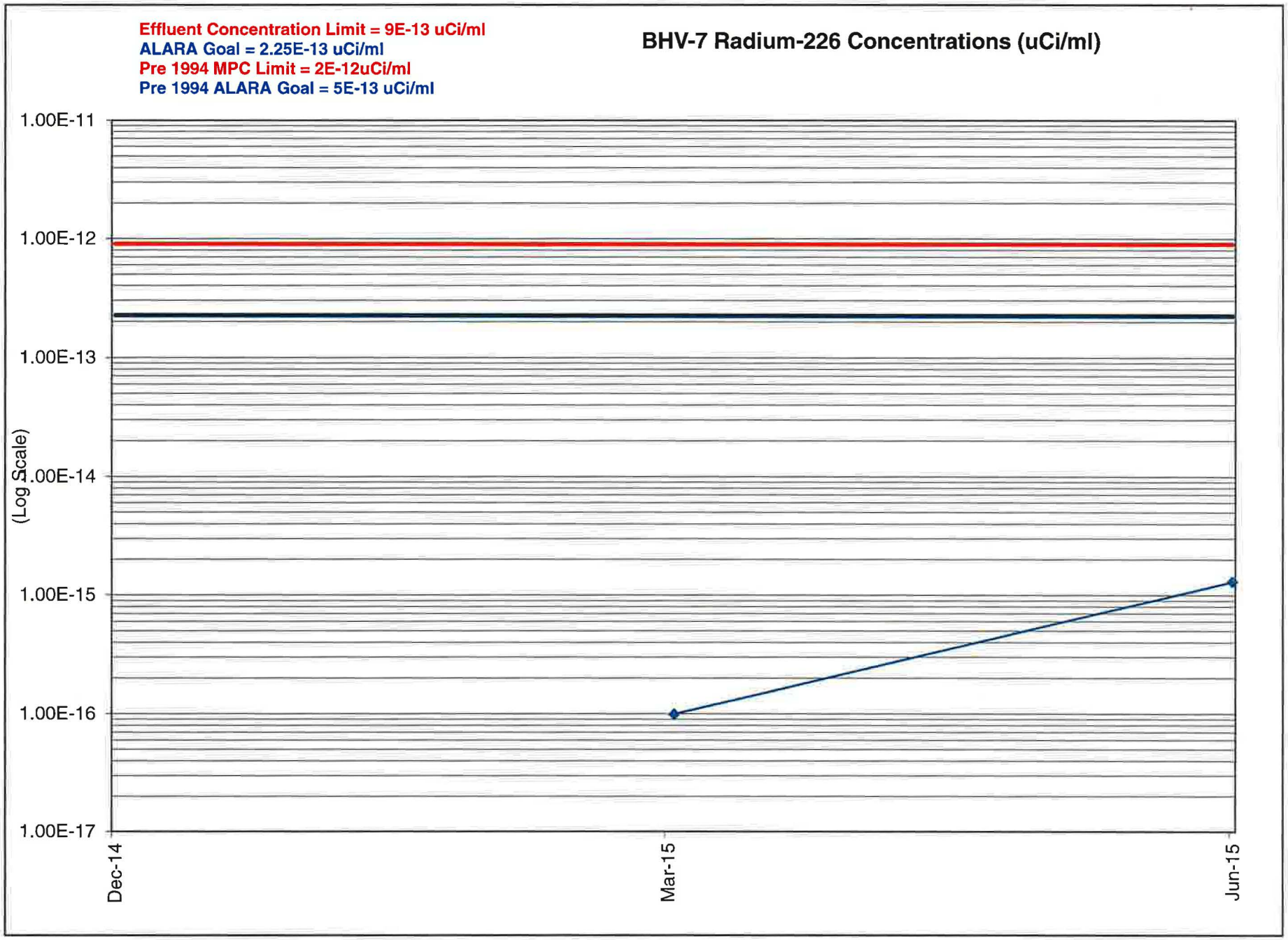
BHV-7 AIR SAMPLING GRAPHS AND DATA TABLE

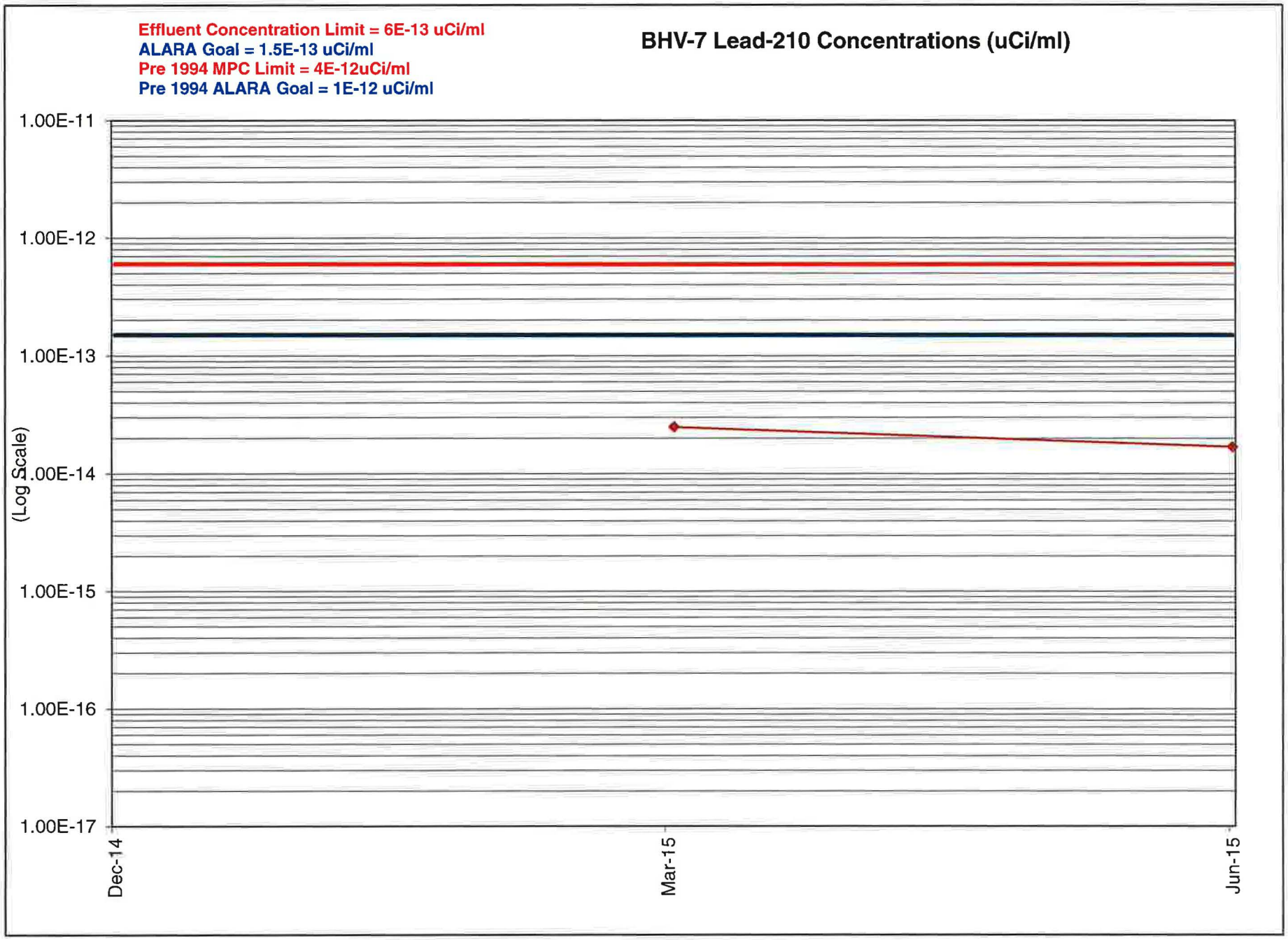
Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-7U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-7T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-7R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-7PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-7T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
12/29/2014	NS	9.00E-14	2.25E-14	NS	2.00E-14	5.00E-15	NS	9.00E-13	2.25E-13	NS	6.00E-13	1.50E-13	NS	4.00E-15	1.00E-15
3/30/2015	6.00E-15	9.00E-14	2.25E-14	8.00E-17	2.00E-14	5.00E-15	1.00E-16	9.00E-13	2.25E-13	2.50E-14	6.00E-13	1.50E-13	7.00E-18	4.00E-15	1.00E-15
6/29/2015	1.40E-15	9.00E-14	2.25E-14	4.00E-16	2.00E-14	5.00E-15	1.30E-15	9.00E-13	2.25E-13	1.70E-14	6.00E-13	1.50E-13	1.00E-17	4.00E-15	1.00E-15

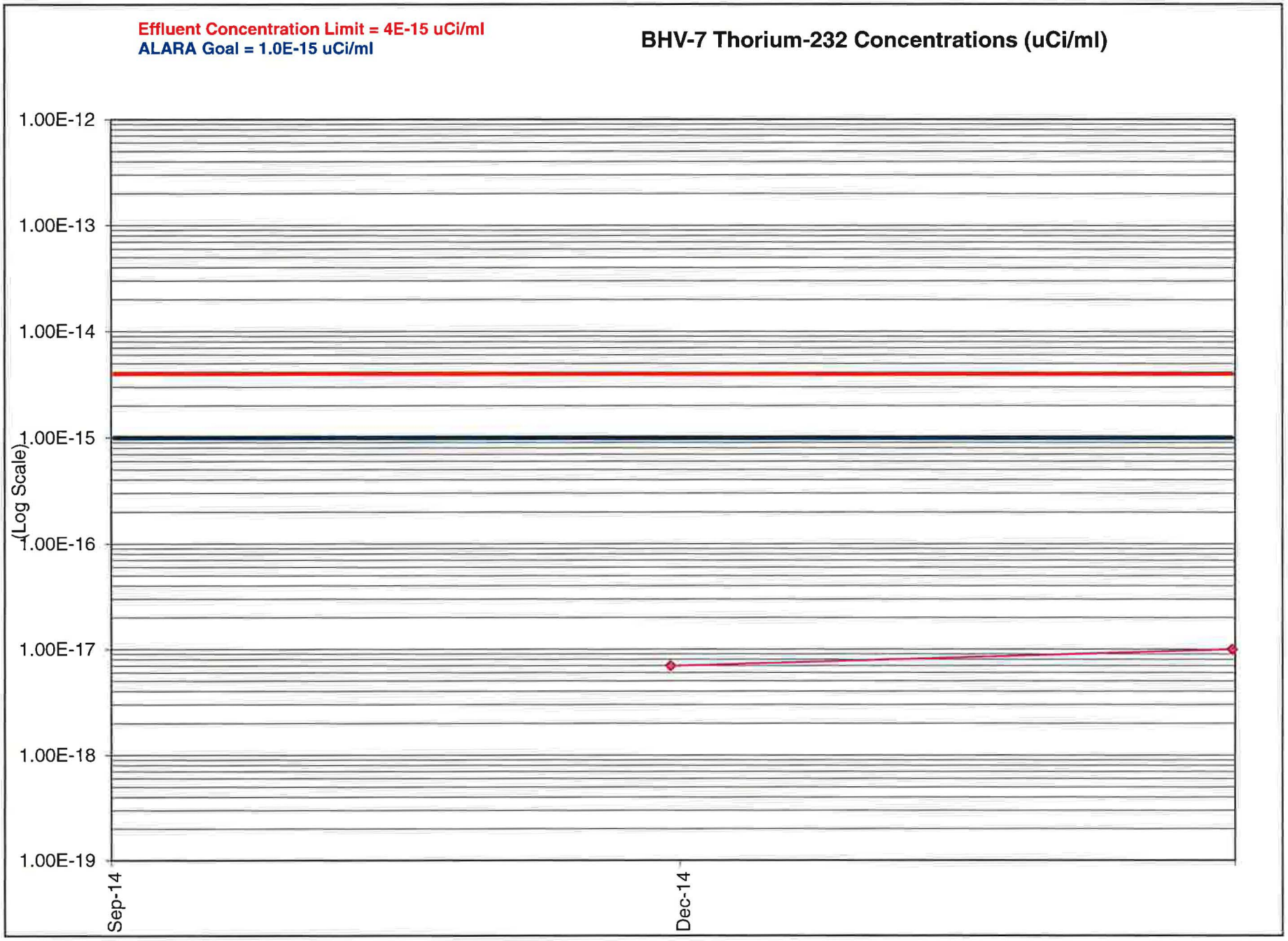

BHV-7 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
12/29/2014
3/29/2015
6/29/2015
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-7 Uranium-Natural Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-7 Thorium-230 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-7 Radium-226 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15

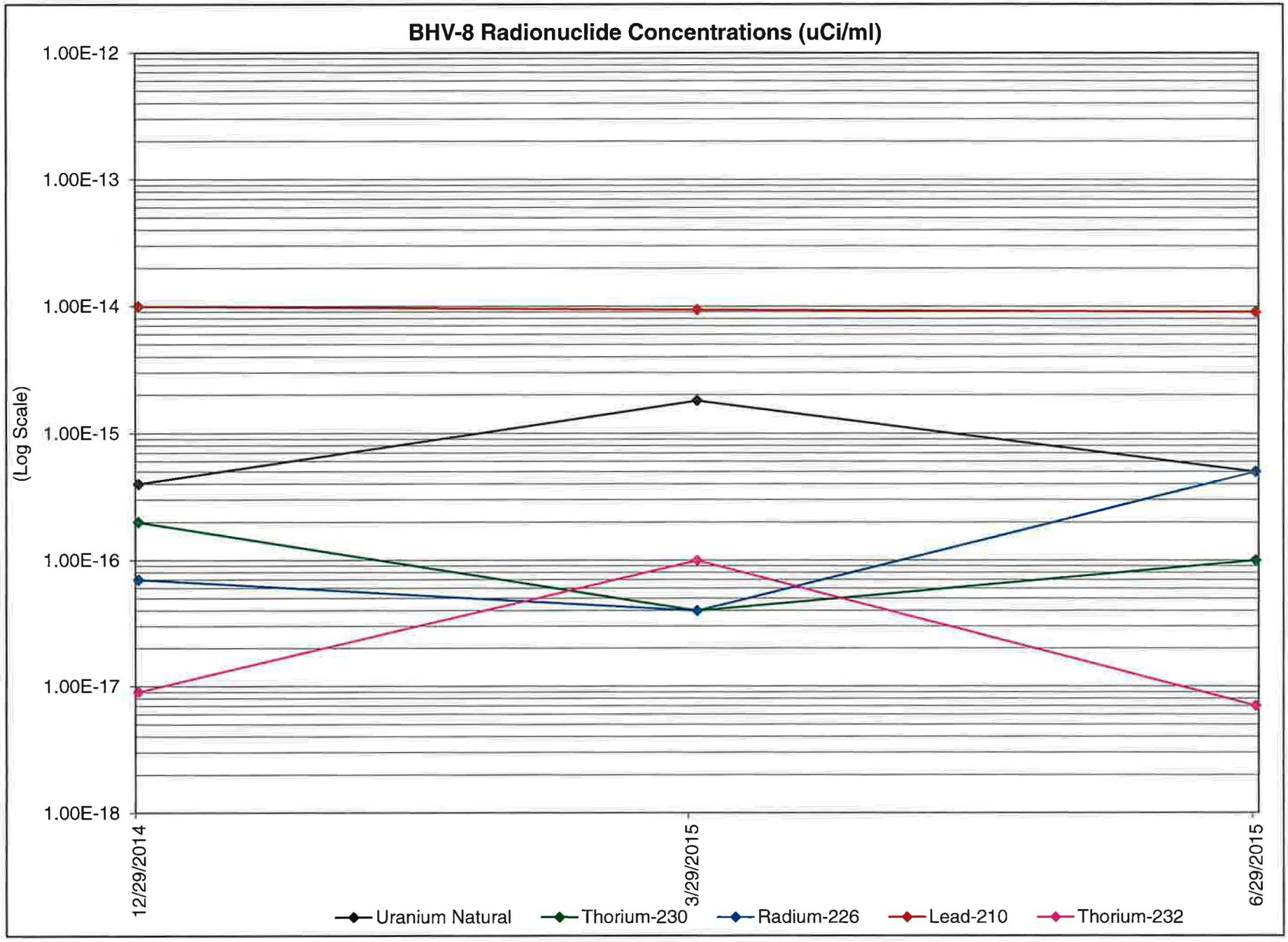

Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-7 Lead-210 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15

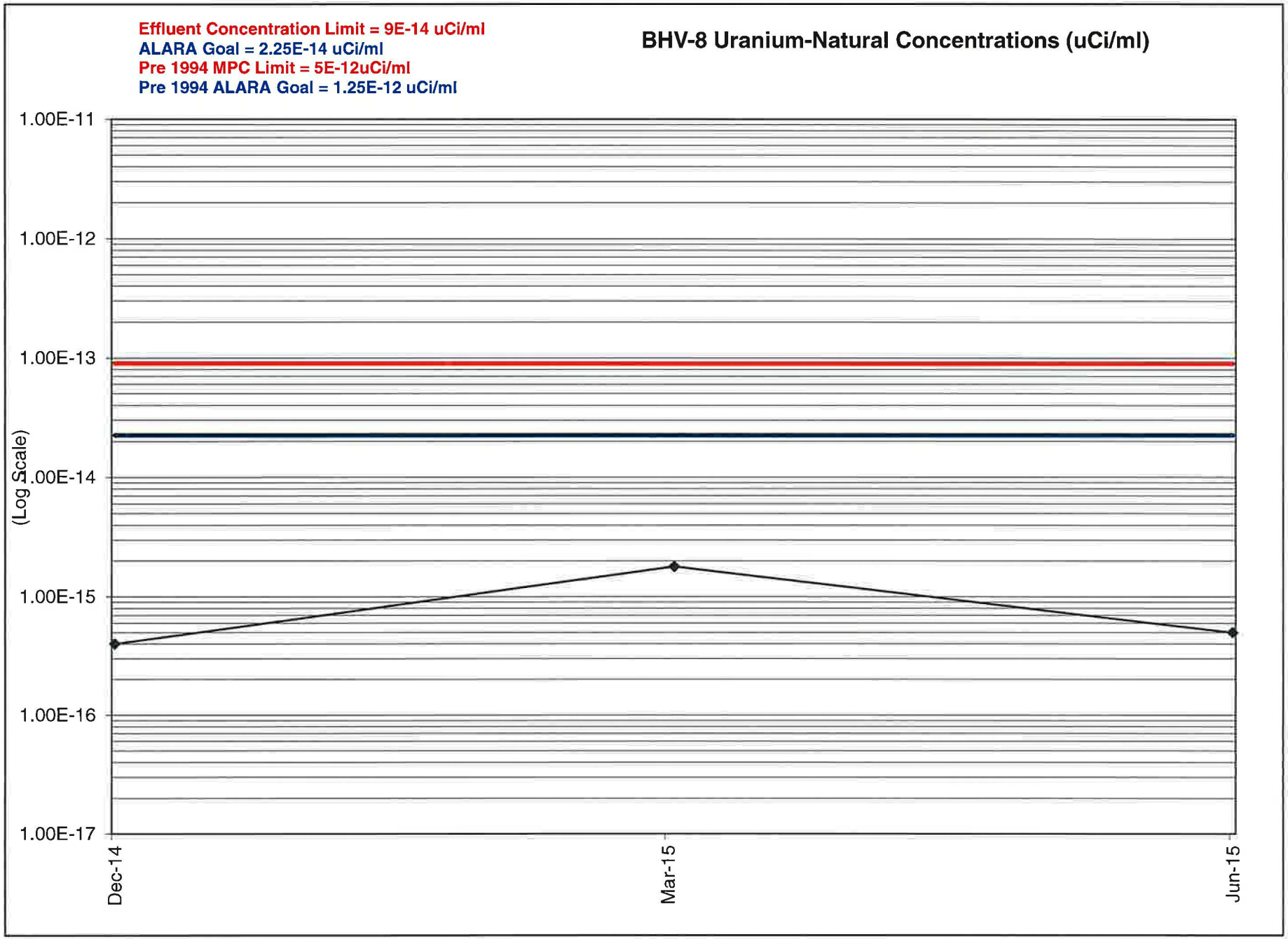

Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-7 Thorium-232 Concentrations (uCi/ml)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
1.00E-19
(Log Scale)
Sep-14
Dec-14

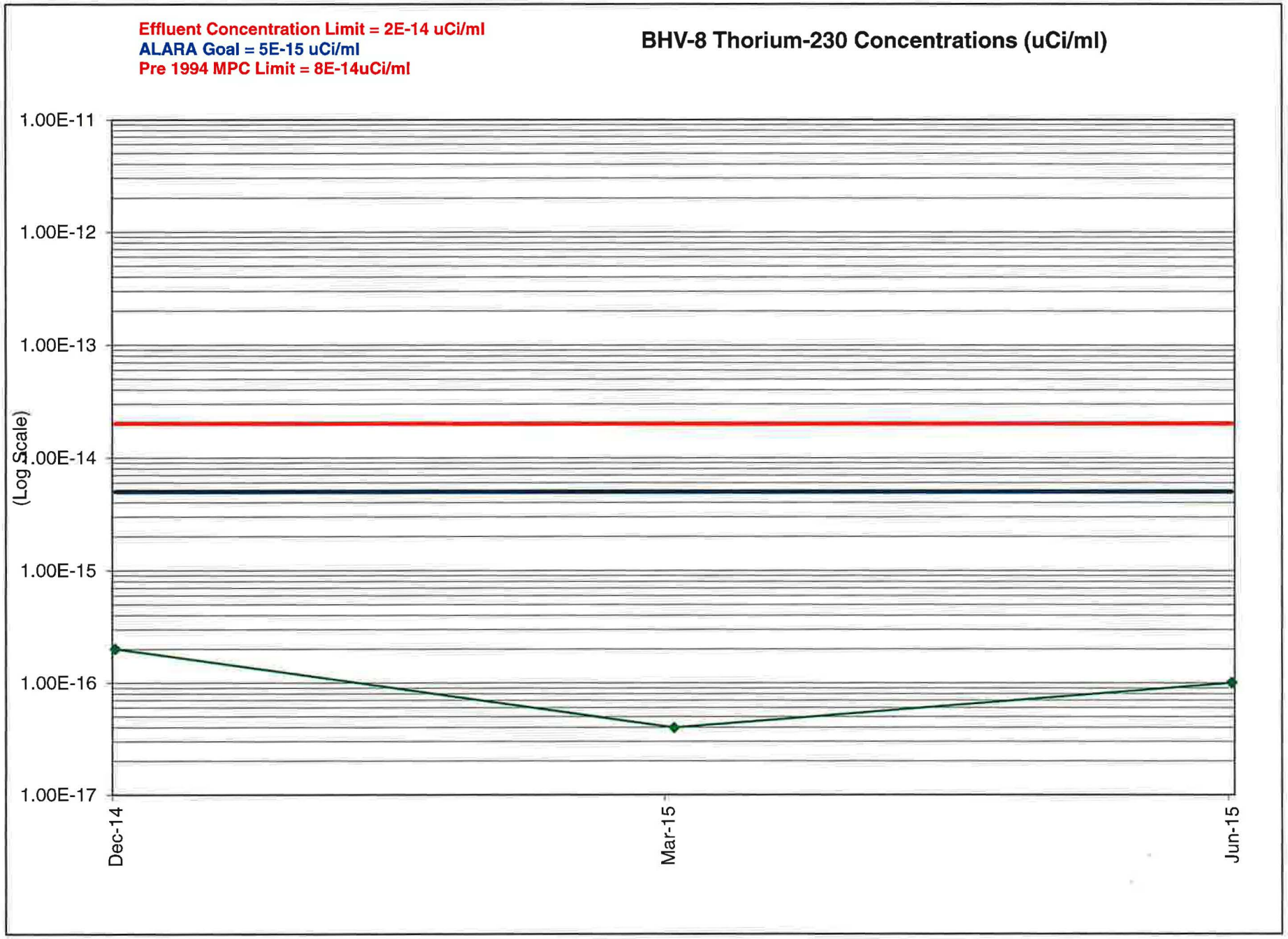
TAB 8

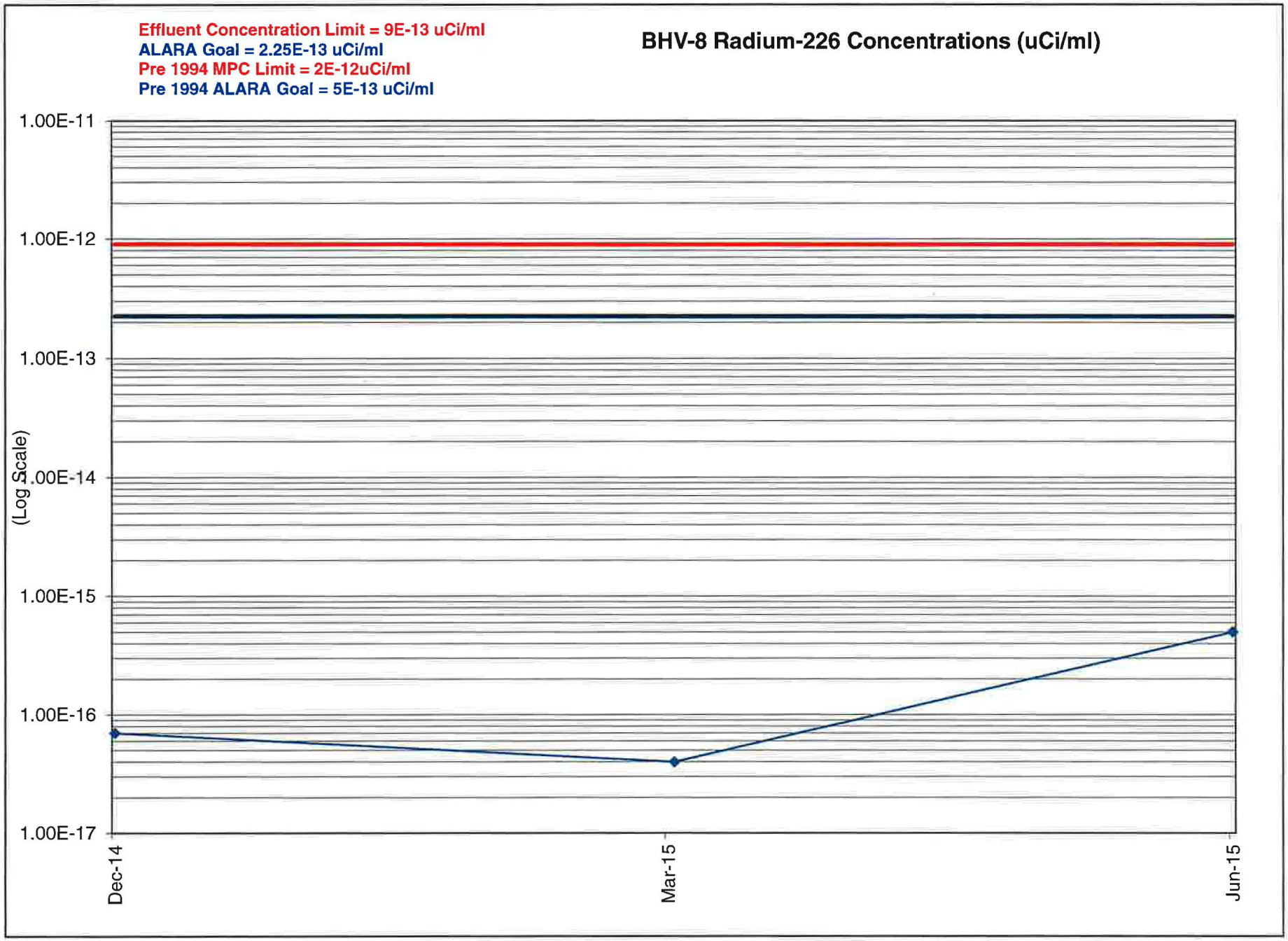
BHV-8 AIR SAMPLING GRAPHS AND DATA TABLE

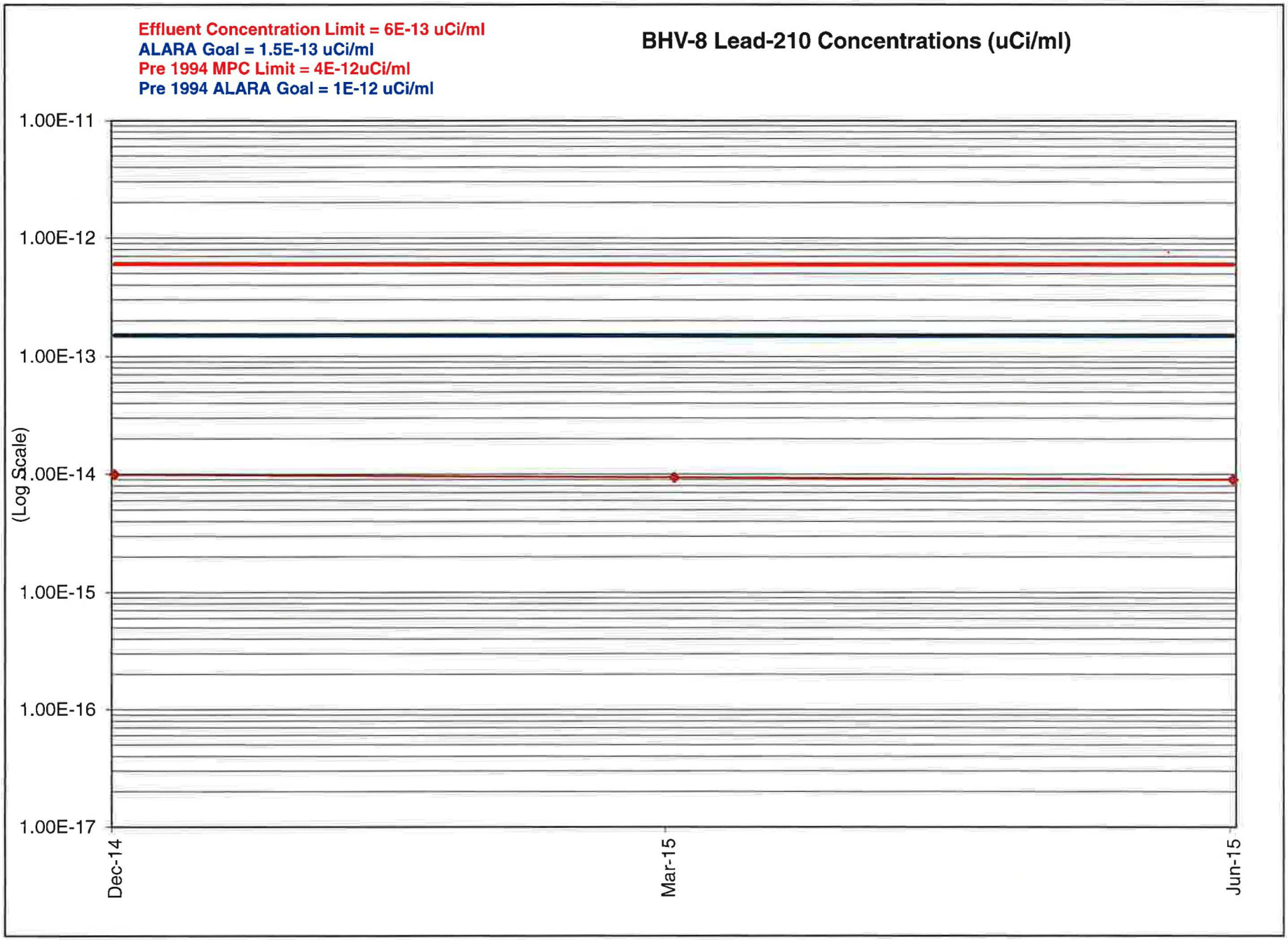
Date	Effluent Concentration Limit =	9E-14 uCi/ml	BHV-8U	Effluent Concentration Limit =	2E-14 uCi/ml	BHV-8T230	Effluent Concentration Limit =	9E-13 uCi/ml	BHV-8R	Effluent Concentration Limit =	6E-13 uCi/ml	BHV-8PB	Effluent Concentration Limit =	4e-15 uCi/ml	BHV-8T232
	ALARA Goal =	2.25E-14 uCi/ml		ALARA Goal =	5E-13 uCi/ml		ALARA Goal =	2.25E-13 uCi/ml		ALARA Goal =	1.5E-13 uCi/ml		ALARA Goal =	1E-15 uCi/ml	
	Pre 1994 MPC Limit =	5E-12 uCi/ml		Pre 1994 MPC Limit =	8E-14 uCi/ml		Pre 1994 MPC Limit =	2E-12 uCi/ml		Pre 1994 MPC Limit =	4E-12 uCi/ml		Pre 1994 MPC Limit =	Not Applicable	
	Pre 1994 ALARA GOAL =	1.25E-12 uCi/ml					Pre 1994 ALARA GOAL =	5E-13 uCi/ml		Pre 1994 ALARA GOAL =	1E-12 uCi/ml		Pre 1994 ALARA GOAL =	Not Applicable	
	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A	Conc	EFC	EFC A
12/29/2014	4.00E-16	9.00E-14	2.25E-14	2.00E-16	2.00E-14	5.00E-15	7.00E-17	9.00E-13	2.25E-13	9.90E-15	6.00E-13	1.50E-13	9.00E-18	4.00E-15	1.00E-15
3/30/2015	1.80E-15	9.00E-14	2.25E-14	4.00E-17	2.00E-14	5.00E-15	4.00E-17	9.00E-13	2.25E-13	9.40E-15	6.00E-13	1.50E-13	1.00E-16	4.00E-15	1.00E-15
6/29/2015	5.00E-16	9.00E-14	2.25E-14	1.00E-16	2.00E-14	5.00E-15	5.00E-16	9.00E-13	2.25E-13	9.00E-15	6.00E-13	1.50E-13	7.00E-18	4.00E-15	1.00E-15

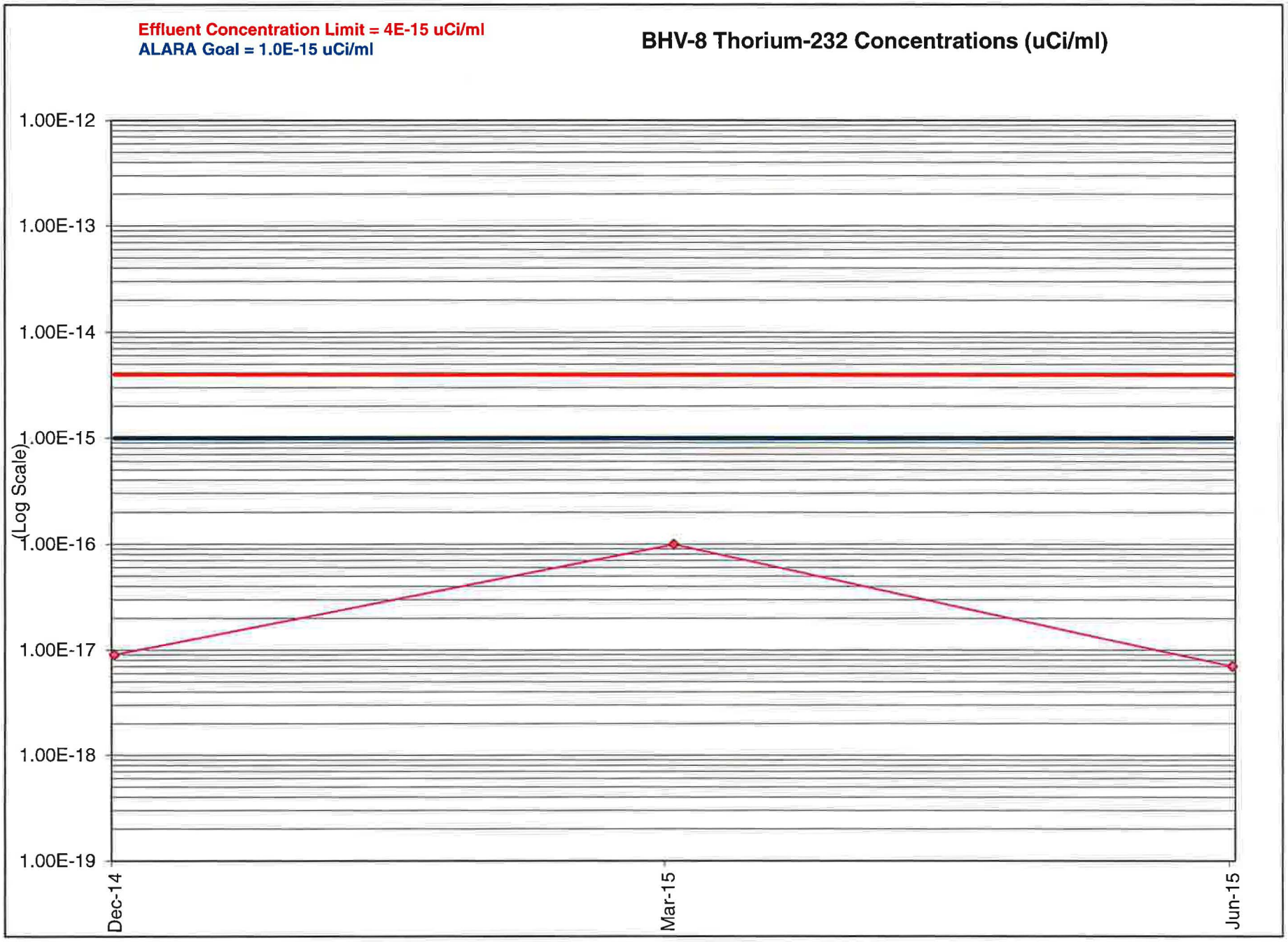

BHV-8 Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
12/29/2014
3/29/2015
6/29/2015
Uranium Natural
Thorium-230
Radium-226
Lead-210
Thorium-232


Effluent Concentration Limit = 9E-14 uCi/ml
ALARA Goal = 2.25E-14 uCi/ml
Pre 1994 MPC Limit = 5E-12uCi/ml
Pre 1994 ALARA Goal = 1.25E-12 uCi/ml
BHV-8 Uranium-Natural Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 2E-14 uCi/ml
ALARA Goal = 5E-15 uCi/ml
Pre 1994 MPC Limit = 8E-14uCi/ml
BHV-8 Thorium-230 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 9E-13 uCi/ml
ALARA Goal = 2.25E-13 uCi/ml
Pre 1994 MPC Limit = 2E-12uCi/ml
Pre 1994 ALARA Goal = 5E-13 uCi/ml
BHV-8 Radium-226 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 6E-13 uCi/ml
ALARA Goal = 1.5E-13 uCi/ml
Pre 1994 MPC Limit = 4E-12uCi/ml
Pre 1994 ALARA Goal = 1E-12 uCi/ml
BHV-8 Lead-210 Concentrations (uCi/ml)
1.00E-11
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
(Log Scale)
Dec-14
Mar-15
Jun-15


Effluent Concentration Limit = 4E-15 uCi/ml
ALARA Goal = 1.0E-15 uCi/ml
BHV-8 Thorium-232 Concentrations (uCi/ml)
1.00E-12
1.00E-13
1.00E-14
1.00E-15
1.00E-16
1.00E-17
1.00E-18
1.00E-19
(Log Scale)
Dec-14
Mar-15
Jun-15

ATTACHMENT C

BHV AIR SAMPLING LABORATORY RESULTS AND QA/QC

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-001	^{nat}U	1.9E-15	N/A	N/A	1E-16	9E-14	2.1E+00
First Quarter 2015	^{230}Th	3E-17	5E-18	9E-18	1E-16	3E-14	9E-02
Air Volume in mLs	^{226}Ra	6E-17	2E-17	1E-17	1E-16	9E-13	6E-03
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	4E-18	5E-18	9E-18	N/A	6E-15	6E-02

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-001
Client Sample ID: BHV-1

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	2.8E-09	mg/L		1.5E-10		SW6020	04/09/15 13:42 / clm
Uranium, Activity	1.9E-15	uCi/mL		1.0E-16		SW6020	04/09/15 13:42 / clm
RADIONUCLIDES - IN AIR							
Lead 210	2.8E-14	uCi/mL				E909.0	04/16/15 20:43 / eli-cs
Lead 210 precision (±)	4.6E-15	uCi/mL				E909.0	04/16/15 20:43 / eli-cs
Lead 210 MDC	3.9E-16	uCi/mL				E909.0	04/16/15 20:43 / eli-cs
Radium 226	5.7E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	1.9E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	2.7E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	5.2E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	9.4E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	3.9E-18	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	4.9E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	9.4E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	3440	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	561	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	48.4	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	7.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	2.3	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	3.4	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	0.64	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	1.2	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.48	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.61	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	1.2	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	232	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	122940000	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-001	^{nat}U	1.9E-15	N/A	N/A	1E-16	9E-14	2.1E+00
First Quarter 2015	^{230}Th	3E-17	5E-18	9E-18	1E-16	3E-14	9E-02
Air Volume in mLs	^{226}Ra	6E-17	2E-17	1E-17	1E-16	9E-13	6E-03
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	4E-18	5E-18	9E-18	N/A	6E-15	6E-02

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-001	^{nat}U	6E-16	N/A	N/A	1E-16	9E-14	7E-01
Second Quarter 2015	^{230}Th	2E-16	4E-17	3E-18	1E-16	3E-14	6E-01
Air Volume in mLs	^{226}Ra	7E-16	1E-16	1E-17	1E-16	9E-13	8E-02
1.14E+11	^{210}Pb	9E-15	2E-15	2E-16	2E-15	6E-13	2E+00
	^{232}Th	1E-17	3E-18	3E-18	N/A	6E-15	2E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-001
Client Sample ID: BHV-1

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	8.8E-10	mg/L		1.5E-10		SW6020	07/08/15 22:51 / smm
Uranium, Activity	5.9E-16	uCi/mL		1.0E-16		SW6020	07/08/15 22:51 / smm
RADIONUCLIDES - IN AIR							
Lead 210	9.0E-15	uCi/mL				E909.0	07/16/15 20:07 / eli-cs
Lead 210 precision (±)	2.0E-15	uCi/mL				E909.0	07/16/15 20:07 / eli-cs
Lead 210 MDC	2.0E-16	uCi/mL				E909.0	07/16/15 20:07 / eli-cs
Radium 226	7.2E-16	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 precision (±)	1.4E-16	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	07/15/15 07:37 / dmf
Thorium 230	1.9E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	3.6E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	2.9E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	1.0E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	3.3E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1080	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	176	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	24.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	82.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	16.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	21.6	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	4.1	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.34	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	1.1	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.38	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.31	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	67.8	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	114339200	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-002	^{nat}U	5E-16	N/A	N/A	1E-16	9E-14	6E-01
First Quarter 2015	^{230}Th	2E-17	4E-18	5E-18	1E-16	3E-14	8E-02
Air Volume in mLs	^{226}Ra	3E-17	2E-17	2E-17	1E-16	9E-13	4E-03
1.24E+11	^{210}Pb	2.3E-14	4E-15	4E-16	2E-15	6E-13	3.8E+00
	^{232}Th	4E-18	3E-18	6E-18	N/A	6E-15	6E-02

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-002
Client Sample ID: BHV-2

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	7.5E-10	mg/L		1.5E-10		SW6020	04/09/15 13:43 / clm
Uranium, Activity	5.1E-16	uCi/mL		1.0E-16		SW6020	04/09/15 13:43 / clm
RADIONUCLIDES - IN AIR							
Lead 210	2.3E-14	uCi/mL				E909.0	04/16/15 21:17 / eli-cs
Lead 210 precision (±)	3.8E-15	uCi/mL				E909.0	04/16/15 21:17 / eli-cs
Lead 210 MDC	3.6E-16	uCi/mL				E909.0	04/16/15 21:17 / eli-cs
Radium 226	3.4E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	1.5E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.6E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	2.3E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	4.4E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	5.2E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	3.8E-18	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	3.5E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	5.7E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	2840	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	464	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	43.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	4.2	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	1.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	2.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	0.54	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	0.64	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.47	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.43	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	0.70	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	62.6	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	123550000	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-002	^{nat}U	5E-16	N/A	N/A	1E-16	9E-14	6E-01
First Quarter 2015	^{230}Th	2E-17	4E-18	5E-18	1E-16	3E-14	8E-02
Air Volume in mLs	^{226}Ra	3E-17	2E-17	2E-17	1E-16	9E-13	4E-03
1.24E+11	^{210}Pb	2.3E-14	4E-15	4E-16	2E-15	6E-13	3.8E+00
	^{232}Th	4E-18	3E-18	6E-18	N/A	6E-15	6E-02

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-002	^{nat}U	1E-16	N/A	N/A	1E-16	9E-14	1E-01
Second Quarter 2015	^{230}Th	4E-17	7E-18	3E-18	1E-16	3E-14	1E-01
Air Volume in mLs	^{226}Ra	1E-16	3E-17	2E-17	1E-16	9E-13	1E-02
1.22E+11	^{210}Pb	1.4E-14	2E-15	3E-16	2E-15	6E-13	2.3E+00
	^{232}Th	8E-18	3E-18	2E-18	N/A	6E-15	1E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-002
Client Sample ID: BHV-2

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	2.0E-10	mg/L		1.5E-10		SW6020	07/08/15 22:54 / smm
Uranium, Activity	1.3E-16	uCi/mL		1.0E-16		SW6020	07/08/15 22:54 / smm
RADIONUCLIDES - IN AIR							
Lead 210	1.0E-14	uCi/mL				E909.0	07/16/15 21:07 / eli-cs
Lead 210 precision (±)	2.0E-15	uCi/mL				E909.0	07/16/15 21:07 / eli-cs
Lead 210 MDC	3.0E-16	uCi/mL				E909.0	07/16/15 21:07 / eli-cs
Radium 226	1.3E-16	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 precision (±)	3.2E-17	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	07/15/15 07:37 / dmf
Thorium 230	3.5E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	6.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	2.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	8.0E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	2.9E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.4E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1670	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	273	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	31.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	15.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	3.9	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.8	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	4.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	0.82	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.32	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	0.97	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.35	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.30	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	16.3	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	121773500	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-003	^{nat}U	5.9E-15	N/A	N/A	1E-16	9E-14	6.6E+00
First Quarter 2015	^{230}Th	7E-17	1E-17	3E-18	1E-16	3E-14	2E-01
Air Volume in mLs	^{226}Ra	1E-16	3E-17	2E-17	1E-16	9E-13	1E-02
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	5E-19	1E-18	3E-18	N/A	6E-15	8E-03

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-003
Client Sample ID: BHV-4

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	8.7E-09	mg/L		1.5E-10		SW6020	04/09/15 13:45 / clm
Uranium, Activity	5.9E-15	uCi/mL		1.0E-16		SW6020	04/09/15 13:45 / clm
RADIONUCLIDES - IN AIR							
Lead 210	2.8E-14	uCi/mL				E909.0	04/16/15 21:24 / eli-cs
Lead 210 precision (±)	4.6E-15	uCi/mL				E909.0	04/16/15 21:24 / eli-cs
Lead 210 MDC	4.0E-16	uCi/mL				E909.0	04/16/15 21:24 / eli-cs
Radium 226	1.1E-16	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	2.9E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	7.3E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	1.4E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	2.5E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	4.7E-19	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	1.4E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	2.9E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	3500	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	570	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	49.0	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	13.2	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	3.5	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	9.0	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	1.7	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	0.31	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.058	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.17	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	0.36	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	727	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	123162400	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-003	^{nat}U	5.9E-15	N/A	N/A	1E-16	9E-14	6.6E+00
First Quarter 2015	^{230}Th	7E-17	1E-17	3E-18	1E-16	3E-14	2E-01
Air Volume in mLs	^{226}Ra	1E-16	3E-17	2E-17	1E-16	9E-13	1E-02
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	5E-19	1E-18	3E-18	N/A	6E-15	8E-03

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-003	^{nat}U	1.8E-15	N/A	N/A	1E-16	9E-14	2.0E+00
Second Quarter 2015	^{230}Th	1E-16	3E-17	3E-18	1E-16	3E-14	5E-01
Air Volume in mLs	^{226}Ra	2E-16	4E-17	2E-17	1E-16	9E-13	2E-02
1.21E+11	^{210}Pb	1.2E-14	2E-15	2E-16	2E-15	6E-13	2.1E+00
	^{232}Th	1E-17	3E-18	3E-18	N/A	6E-15	2E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-003
Client Sample ID: BHV-4

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	2.6E-09	mg/L		1.5E-10		SW6020	07/08/15 22:57 / smm
Uranium, Activity	1.8E-15	uCi/mL		1.0E-16		SW6020	07/08/15 22:57 / smm
RADIONUCLIDES - IN AIR							
Lead 210	1.0E-14	uCi/mL				E909.0	07/16/15 21:16 / eli-cs
Lead 210 precision (±)	2.0E-15	uCi/mL				E909.0	07/16/15 21:16 / eli-cs
Lead 210 MDC	2.0E-16	uCi/mL				E909.0	07/16/15 21:16 / eli-cs
Radium 226	1.5E-16	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 precision (±)	3.7E-17	uCi/mL				E903.0	07/15/15 07:37 / dmf
Radium 226 MDC	1.6E-17	uCi/mL				E903.0	07/15/15 07:37 / dmf
Thorium 230	1.4E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	2.6E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	2.9E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	9.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	3.3E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.6E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1490	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	243	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	29.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	18.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	4.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.9	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	16.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	3.2	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.35	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	1.2	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.40	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.32	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	213	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	120938100	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-004	^{nat}U	1.0E-14	N/A	N/A	1E-16	9E-14	1.2E+01
First Quarter 2015	^{230}Th	5E-16	9E-17	1E-17	1E-16	3E-14	2E+00
Air Volume in mLs	^{226}Ra	2.1E-15	4E-16	2E-17	1E-16	9E-13	2.3E-01
1.23E+11	^{210}Pb	3.1E-14	5E-15	4E-16	2E-15	6E-13	5.2E+00
	^{232}Th	3E-18	4E-18	8E-18	N/A	6E-15	4E-02

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-004
Client Sample ID: BHV-5

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	1.5E-08	mg/L		1.5E-10		SW6020	04/09/15 13:46 / clm
Uranium, Activity	1.0E-14	uCi/mL		1.0E-16		SW6020	04/09/15 13:46 / clm
RADIONUCLIDES - IN AIR							
Lead 210	3.1E-14	uCi/mL				E909.0	04/16/15 21:30 / eli-cs
Lead 210 precision (±)	5.1E-15	uCi/mL				E909.0	04/16/15 21:30 / eli-cs
Lead 210 MDC	4.2E-16	uCi/mL				E909.0	04/16/15 21:30 / eli-cs
Radium 226	2.1E-15	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	4.0E-16	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.6E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	4.6E-16	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	8.7E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	1.1E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	2.6E-18	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	3.8E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	8.0E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	3840	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	625	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	51.3	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	256	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	48.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	2.0	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	56.3	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	10.7	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	1.4	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.32	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.47	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	0.99	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	1290	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	123441500	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-004	^{nat}U	1.0E-14	N/A	N/A	1E-16	9E-14	1.2E+01
First Quarter 2015	^{230}Th	5E-16	9E-17	1E-17	1E-16	3E-14	2E+00
Air Volume in mLs	^{226}Ra	2.1E-15	4E-16	2E-17	1E-16	9E-13	2.3E-01
1.23E+11	^{210}Pb	3.1E-14	5E-15	4E-16	2E-15	6E-13	5.2E+00
	^{232}Th	3E-18	4E-18	8E-18	N/A	6E-15	4E-02

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-004	^{nat}U	4.6E-15	N/A	N/A	1E-16	9E-14	5.1E+00
Second Quarter 2015	^{230}Th	8E-16	1E-16	2E-18	1E-16	3E-14	3E+00
Air Volume in mLs	^{226}Ra	3.7E-15	7E-16	1E-17	1E-16	9E-13	4.1E-01
1.21E+11	^{210}Pb	1.4E-14	2E-15	3E-16	2E-15	6E-13	2.3E+00
	^{232}Th	2E-17	3E-18	2E-18	N/A	6E-15	3E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-004
Client Sample ID: BHV-5

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	6.8E-09	mg/L		1.5E-10		SW6020	07/08/15 23:10 / smm
Uranium, Activity	4.6E-15	uCi/mL		1.0E-16		SW6020	07/08/15 23:10 / smm
RADIONUCLIDES - IN AIR							
Lead 210	1.0E-14	uCi/mL				E909.0	07/16/15 21:27 / eli-cs
Lead 210 precision (±)	2.0E-15	uCi/mL				E909.0	07/16/15 21:27 / eli-cs
Lead 210 MDC	3.0E-16	uCi/mL				E909.0	07/16/15 21:27 / eli-cs
Radium 226	3.7E-15	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 precision (±)	7.0E-16	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 MDC	1.4E-17	uCi/mL				E903.0	07/15/15 09:10 / dmf
Thorium 230	7.9E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	1.5E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	2.2E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	1.7E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	3.3E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.5E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1680	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	274	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	31.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	452	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	85.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	95.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	18.1	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.27	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	2.1	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.40	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.30	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	557	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	121269700	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-6

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-005	^{nat}U	2.8E-14	N/A	N/A	1E-16	9E-14	3.1E+01
First Quarter 2015	^{230}Th	2E-16	3E-17	2E-17	1E-16	3E-14	5E-01
Air Volume in mLs	^{226}Ra	4E-16	9E-17	2E-17	1E-16	9E-13	5E-02
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	1E-18	9E-18	2E-17	N/A	6E-15	2E-02

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-005
Client Sample ID: BHV-6

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	4.2E-08	mg/L		1.5E-10		SW6020	04/09/15 13:48 / clm
Uranium, Activity	2.8E-14	uCi/mL		1.0E-16		SW6020	04/09/15 13:48 / clm
RADIONUCLIDES - IN AIR							
Lead 210	2.8E-14	uCi/mL				E909.0	04/16/15 21:35 / eli-cs
Lead 210 precision (±)	4.5E-15	uCi/mL				E909.0	04/16/15 21:35 / eli-cs
Lead 210 MDC	3.9E-16	uCi/mL				E909.0	04/16/15 21:35 / eli-cs
Radium 226	4.3E-16	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	9.0E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	1.6E-16	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	3.1E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	2.2E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	1.5E-18	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	9.3E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	2.2E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	3440	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	561	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	48.6	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	53.4	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	11.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	20.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	3.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	2.7	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.18	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	1.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	2.7	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	3470	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	123444400	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-6

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-005	^{nat}U	2.8E-14	N/A	N/A	1E-16	9E-14	3.1E+01
First Quarter 2015	^{230}Th	2E-16	3E-17	2E-17	1E-16	3E-14	5E-01
Air Volume in mLs	^{226}Ra	4E-16	9E-17	2E-17	1E-16	9E-13	5E-02
1.23E+11	^{210}Pb	2.8E-14	5E-15	4E-16	2E-15	6E-13	4.7E+00
	^{232}Th	1E-18	9E-18	2E-17	N/A	6E-15	2E-02

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-005	^{nat}U	5.3E-15	N/A	N/A	1E-16	9E-14	5.9E+00
Second Quarter 2015	^{230}Th	2E-16	4E-17	2E-18	1E-16	3E-14	7E-01
Air Volume in mLs	^{226}Ra	5E-16	1E-16	2E-17	1E-16	9E-13	5E-02
1.20E+11	^{210}Pb	1.7E-14	3E-15	3E-16	2E-15	6E-13	2.8E+00
	^{232}Th	1E-17	3E-18	3E-18	N/A	6E-15	2E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-005
Client Sample ID: BHV-6

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	7.8E-09	mg/L		1.5E-10		SW6020	07/08/15 23:13 / smm
Uranium, Activity	5.3E-15	uCi/mL		1.0E-16		SW6020	07/08/15 23:13 / smm
RADIONUCLIDES - IN AIR							
Lead 210	2.0E-14	uCi/mL				E909.0	07/16/15 21:37 / eli-cs
Lead 210 precision (±)	3.0E-15	uCi/mL				E909.0	07/16/15 21:37 / eli-cs
Lead 210 MDC	3.0E-16	uCi/mL				E909.0	07/16/15 21:37 / eli-cs
Radium 226	4.9E-16	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 precision (±)	1.0E-16	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	07/15/15 09:10 / dmf
Thorium 230	2.1E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	4.0E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	1.9E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	1.0E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	3.1E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.6E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	2000	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	326	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	34.2	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	58.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	11.9	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.8	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	25.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	4.8	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.23	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	1.2	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.37	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.31	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	634	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	119987400	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-7

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-008	^{nat}U	6.0E-15	N/A	N/A	1E-16	9E-14	6.6E+00
First Quarter 2015	^{230}Th	8E-17	2E-17	7E-18	1E-16	3E-14	3E-01
Air Volume in mLs	^{226}Ra	1E-16	4E-17	3E-17	1E-16	9E-13	2E-02
5.66E+10	^{210}Pb	2.5E-14	4E-15	5E-16	2E-15	6E-13	4.1E+00
	^{232}Th	7E-18	4E-18	5E-18	N/A	6E-15	1E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-008
Client Sample ID: BHV-7

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	8.8E-09	mg/L		1.5E-10		SW6020	04/09/15 13:59 / clm
Uranium, Activity	6.0E-15	uCi/mL		1.0E-16		SW6020	04/09/15 13:59 / clm
RADIONUCLIDES - IN AIR							
Lead 210	2.5E-14	uCi/mL				E909.0	04/16/15 23:38 / eli-cs
Lead 210 precision (±)	4.0E-15	uCi/mL				E909.0	04/16/15 23:38 / eli-cs
Lead 210 MDC	5.1E-16	uCi/mL				E909.0	04/16/15 23:38 / eli-cs
Radium 226	1.4E-16	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	4.4E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	3.2E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	8.4E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	1.6E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	7.2E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	7.1E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	4.1E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	5.2E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1400	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	229	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	29.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	8.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	2.5	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	4.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	0.91	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	0.40	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.40	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.23	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	0.29	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	338	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	56619100	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-7

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-008	^{nat}U	6.0E-15	N/A	N/A	1E-16	9E-14	6.6E+00
First Quarter 2015	^{230}Th	8E-17	2E-17	7E-18	1E-16	3E-14	3E-01
Air Volume in mLs	^{226}Ra	1E-16	4E-17	3E-17	1E-16	9E-13	2E-02
5.66E+10	^{210}Pb	2.5E-14	4E-15	5E-16	2E-15	6E-13	4.1E+00
	^{232}Th	7E-18	4E-18	5E-18	N/A	6E-15	1E-01

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-006	^{nat}U	1.4E-15	N/A	N/A	1E-16	9E-14	1.5E+00
Second Quarter 2015	^{230}Th	4E-16	7E-17	3E-18	1E-16	3E-14	1E+00
Air Volume in mLs	^{226}Ra	1.3E-15	3E-16	2E-17	1E-16	9E-13	1.5E-01
1.22E+11	^{210}Pb	1.7E-14	3E-15	3E-16	2E-15	6E-13	2.9E+00
	^{232}Th	1E-17	2E-18	2E-18	N/A	6E-15	2E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-006
Client Sample ID: BHV-7

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	2.0E-09	mg/L		1.5E-10		SW6020	07/08/15 23:16 / smm
Uranium, Activity	1.4E-15	uCi/mL		1.0E-16		SW6020	07/08/15 23:16 / smm
RADIONUCLIDES - IN AIR							
Lead 210	2.0E-14	uCi/mL				E909.0	07/16/15 21:45 / eli-cs
Lead 210 precision (±)	3.0E-15	uCi/mL				E909.0	07/16/15 21:45 / eli-cs
Lead 210 MDC	3.0E-16	uCi/mL				E909.0	07/16/15 21:45 / eli-cs
Radium 226	1.3E-15	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 precision (±)	2.6E-16	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 MDC	1.7E-17	uCi/mL				E903.0	07/15/15 09:10 / dmf
Thorium 230	3.6E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	6.8E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	3.0E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	1.3E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	2.4E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.3E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	2120	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	345	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	35.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	162	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	31.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	2.0	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	43.6	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	8.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.36	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	1.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.29	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.27	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	167	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	121966900	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: BHV-8

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-006	^{nat}U	1.8E-15	N/A	N/A	1E-16	9E-14	2.0E+00
First Quarter 2015	^{230}Th	4E-17	8E-18	2E-17	1E-16	3E-14	1E-01
Air Volume in mLs	^{226}Ra	4E-17	1E-17	2E-17	1E-16	9E-13	4E-03
7.72E+10	^{210}Pb	9.4E-15	2E-15	2E-16	2E-15	6E-13	1.6E+00
	^{232}Th	-6E-19	1E-17	3E-17	N/A	6E-15	-1E-02

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-006
Client Sample ID: BHV-8

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	2.7E-09	mg/L		1.5E-10		SW6020	04/09/15 13:50 / clm
Uranium, Activity	1.8E-15	uCi/mL		1.0E-16		SW6020	04/09/15 13:50 / clm
RADIONUCLIDES - IN AIR							
Lead 210	9.4E-15	uCi/mL				E909.0	04/16/15 21:41 / eli-cs
Lead 210 precision (±)	1.5E-15	uCi/mL				E909.0	04/16/15 21:41 / eli-cs
Lead 210 MDC	2.2E-16	uCi/mL				E909.0	04/16/15 21:41 / eli-cs
Radium 226	3.7E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	1.4E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.5E-17	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	4.4E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	8.5E-18	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	2.3E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	-6.0E-19	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	1.2E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	2.7E-17	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	726	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	119	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	17.3	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	2.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	1.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.2	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	3.4	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	0.65	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	1.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	-0.046	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.90	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	2.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	141	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	77212000	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: BHV-8

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-006	^{nat}U	1.8E-15	N/A	N/A	1E-16	9E-14	2.0E+00
First Quarter 2015	^{230}Th	4E-17	8E-18	2E-17	1E-16	3E-14	1E-01
Air Volume in mLs	^{226}Ra	4E-17	1E-17	2E-17	1E-16	9E-13	4E-03
7.72E+10	^{210}Pb	9.4E-15	2E-15	2E-16	2E-15	6E-13	1.6E+00
	^{232}Th	-6E-19	1E-17	3E-17	N/A	6E-15	-1E-02

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-007	^{nat}U	5E-16	N/A	N/A	1E-16	9E-14	5E-01
Second Quarter 2015	^{230}Th	1E-16	2E-17	3E-18	1E-16	3E-14	4E-01
Air Volume in mLs	^{226}Ra	5E-16	9E-17	2E-17	1E-16	9E-13	5E-02
1.20E+11	^{210}Pb	9E-15	2E-15	2E-16	2E-15	6E-13	2E+00
	^{232}Th	7E-18	3E-18	3E-18	N/A	6E-15	1E-01

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-007
Client Sample ID: BHV-8

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	7.3E-10	mg/L		1.5E-10		SW6020	07/08/15 23:19 / smm
Uranium, Activity	4.9E-16	uCi/mL		1.0E-16		SW6020	07/08/15 23:19 / smm
RADIONUCLIDES - IN AIR							
Lead 210	9.0E-15	uCi/mL				E909.0	07/16/15 21:53 / eli-cs
Lead 210 precision (±)	2.0E-15	uCi/mL				E909.0	07/16/15 21:53 / eli-cs
Lead 210 MDC	2.0E-16	uCi/mL				E909.0	07/16/15 21:53 / eli-cs
Radium 226	4.6E-16	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 precision (±)	9.5E-17	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 MDC	1.6E-17	uCi/mL				E903.0	07/15/15 09:10 / dmf
Thorium 230	1.2E-16	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	2.3E-17	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	3.2E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	6.9E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	2.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.7E-18	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	1120	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	184	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	25.6	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	55.6	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	11.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.9	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	14.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	2.7	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.39	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	0.83	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.33	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.32	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	59.4	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	120299000	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: May 10, 2015
PROJECT: 1st Quarter Air 2015

SAMPLE ID: Blanks

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-007	^{nat}U	6E-17	N/A	N/A	1E-16	9E-14	7E-02
First Quarter 2015	^{230}Th	5E-18	2E-18	2E-18	1E-16	3E-14	2E-02
Air Volume in mLs	^{226}Ra	1E-17	8E-18	1E-17	1E-16	9E-13	1E-03
1.36E+11	^{210}Pb	-7E-18	3E-17	6E-17	2E-15	6E-13	-1E-03
	^{232}Th	2E-20	8E-19	2E-18	N/A	6E-15	3E-04

Note: This sample uses 136,000,000 L of air volume for comparison purposes.

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Lab ID: C15040118-007
Client Sample ID: Blanks

Report Date: 05/10/15
Collection Date: 03/30/15
DateReceived: 04/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	0.013	mg/L	D	0.000043		SW6020	04/09/15 13:51 / clm
Uranium, Activity	8.6E-09	uCi/mL	D	2.9E-11		SW6020	04/09/15 13:51 / clm
RADIONUCLIDES - IN AIR							
Lead 210	-9.8E-10	uCi/mL	U			E909.0	04/16/15 21:56 / eli-cs
Lead 210 precision (±)	4.7E-09	uCi/mL				E909.0	04/16/15 21:56 / eli-cs
Lead 210 MDC	7.9E-09	uCi/mL				E909.0	04/16/15 21:56 / eli-cs
Radium 226	1.8E-09	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 precision (±)	1.1E-09	uCi/mL				E903.0	04/15/15 07:39 / dmf
Radium 226 MDC	1.6E-09	uCi/mL				E903.0	04/15/15 07:39 / dmf
Thorium 230	6.7E-10	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 precision (±)	2.5E-10	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 230 MDC	2.4E-10	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232	2.5E-12	uCi/mL	U			E908.0	04/15/15 14:04 / cng
Thorium 232 precision (±)	1.1E-10	uCi/mL				E908.0	04/15/15 14:04 / cng
Thorium 232 MDC	2.7E-10	uCi/mL				E908.0	04/15/15 14:04 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	-0.98	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Lead 210 precision (±)	4.7	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Lead 210 MDC	7.9	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226	1.8	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 precision (±)	1.1	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Radium 226 MDC	1.6	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230	0.67	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 precision (±)	0.25	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 230 MDC	0.24	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232	0.0025	pCi/Filter	U			RADCALC	05/03/15 14:38 / sec
Thorium 232 precision (±)	0.11	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Thorium 232 MDC	0.27	pCi/Filter				RADCALC	05/03/15 14:38 / sec
Uranium, Activity	8.6	pCi/Filter		0.20		RADCALC	05/03/15 14:38 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	1	L				FIELD	03/30/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: Energy Fuels Resources (USA) Inc
REPORT DATE: August 13, 2015
PROJECT: 2nd Quarter Air 2015

SAMPLE ID: Blanks

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15040118-007	^{nat}U	6E-17	N/A	N/A	1E-16	9E-14	7E-02
First Quarter 2015	^{230}Th	5E-18	2E-18	2E-18	1E-16	3E-14	2E-02
Air Volume in mLs	^{226}Ra	1E-17	8E-18	1E-17	1E-16	9E-13	1E-03
1.36E+11	^{210}Pb	-7E-18	3E-17	6E-17	2E-15	6E-13	-1E-03
	^{232}Th	2E-20	8E-19	2E-18	N/A	6E-15	3E-04

Note: This sample uses 136,000,000 L of air volume for comparison purposes.

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Counting Precision µCi/mL	MDC µCi/mL	L.L.D.+ µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
C15070141-008	^{nat}U	8E-18	N/A	N/A	1E-16	9E-14	8E-03
Second Quarter 2015	^{230}Th	2E-18	1E-18	2E-18	1E-16	3E-14	5E-03
Air Volume in mLs	^{226}Ra	2E-17	1E-17	1E-17	1E-16	9E-13	2E-03
1.36E+11	^{210}Pb	2E-17	3E-17	5E-17	2E-15	6E-13	3E-03
	^{232}Th	-5E-19	7E-19	2E-18	N/A	6E-15	-9E-03

Note: This sample uses 136,000,000 L of air volume for comparison purposes.

+LLD's are from NRC Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Year for Thorium-230, Thorium-232
Week for Radium-226
Day for Lead-210

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Lab ID: C15070141-008
Client Sample ID: Blanks

Report Date: 08/13/15
Collection Date: 06/29/15
DateReceived: 07/02/15
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS - IN AIR							
Uranium	0.0015	mg/L	D	8.5E-06		SW6020	07/08/15 23:22 / smm
Uranium, Activity	1.0E-09	uCi/mL	D	5.8E-12		SW6020	07/08/15 23:22 / smm
RADIONUCLIDES - IN AIR							
Lead 210	3.0E-09	uCi/mL	U			E909.0	07/16/15 22:07 / eli-cs
Lead 210 precision (±)	4.0E-09	uCi/mL				E909.0	07/16/15 22:07 / eli-cs
Lead 210 MDC	7.0E-09	uCi/mL				E909.0	07/16/15 22:07 / eli-cs
Radium 226	2.3E-09	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 precision (±)	1.4E-09	uCi/mL				E903.0	07/15/15 09:10 / dmf
Radium 226 MDC	1.5E-09	uCi/mL				E903.0	07/15/15 09:10 / dmf
Thorium 230	2.0E-10	uCi/mL	U			E908.0	08/01/15 21:51 / cng
Thorium 230 precision (±)	1.6E-10	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 230 MDC	2.5E-10	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232	-7.5E-11	uCi/mL	U			E908.0	08/01/15 21:51 / cng
Thorium 232 precision (±)	9.6E-11	uCi/mL				E908.0	08/01/15 21:51 / cng
Thorium 232 MDC	2.9E-10	uCi/mL				E908.0	08/01/15 21:51 / cng
RADIONUCLIDES - IN AIR - PER FILTER							
Lead 210	2.8	pCi/Filter	U			RADCALC	08/13/15 13:34 / sec
Lead 210 precision (±)	4.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Lead 210 MDC	7.1	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226	2.3	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 precision (±)	1.4	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Radium 226 MDC	1.5	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230	0.20	pCi/Filter	U			RADCALC	08/13/15 13:34 / sec
Thorium 230 precision (±)	0.16	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 230 MDC	0.25	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232	-0.075	pCi/Filter	U			RADCALC	08/13/15 13:34 / sec
Thorium 232 precision (±)	0.096	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Thorium 232 MDC	0.29	pCi/Filter				RADCALC	08/13/15 13:34 / sec
Uranium, Activity	1.0	pCi/Filter		0.20		RADCALC	08/13/15 13:34 / sec
CLIENT PROVIDED FIELD PARAMETERS							
Air Filtering Volume	1	L				FIELD	06/29/15 00:00 / ***

*** Field data provided by client

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

ANALYTICAL SUMMARY REPORT

May 10, 2015

Energy Fuels Resources (USA) Inc
225 Union Blvd Ste 600
Lakewood, CO 80228-1826

Work Order: C15040118

Project Name: 1st Quarter Air 2015

Energy Laboratories, Inc. Casper WY received the following 8 samples for Energy Fuels Resources (USA) Inc on 4/2/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15040118-001	BHV-1	03/30/15 00:00	04/02/15	Filter	Composite of two or more samples Client Provided Field Parameters Metals, Total Digestion, Total Metals RAD-AIR, Routine Radiological Reports RAD Alternate Unit Reporting Air Filters Lead 210 Radium 226 Thorium, Isotopic
C15040118-002	BHV-2	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-003	BHV-4	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-004	BHV-5	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-005	BHV-6	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-006	BHV-8	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-007	Blanks	03/30/15 00:00	04/02/15	Filter	Same As Above
C15040118-008	BHV-7	03/30/15 00:00	04/02/15	Filter	Same As Above

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Senior Project Specialist

Digitally signed by
Steve Carlston
Date: 2015.05.10 15:40:42 -06:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015
Work Order: C15040118

Report Date: 05/10/15

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.
Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 05/10/15
Project: 1st Quarter Air 2015
Work Order: C15040118

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 44339
Lab ID: MB-44339	3	Method Blank				Run: G5000W_150409A				04/15/15 07:39
Radium 226		0.3	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Lab ID: LCS-44339		Laboratory Control Sample				Run: G5000W_150409A				04/15/15 07:39
Radium 226		18.6	pCi/L		94	80	120			
Lab ID: C15040118-006AMS		Sample Matrix Spike				Run: G5000W_150409A				04/15/15 07:39
Radium 226		1.95E-06	pCi/L		93	70	130			
Lab ID: C15040118-006AMSD		Sample Matrix Spike Duplicate				Run: G5000W_150409A				04/15/15 07:39
Radium 226		1.92E-06	pCi/L		91	70	130	1.7	49.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 05/10/15
Project: 1st Quarter Air 2015
Work Order: C15040118

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: 44339
Lab ID: LCS-44339		Laboratory Control Sample				Run: ALPHANALYST_150410A				04/15/15 14:04
Thorium 230		30.4	pCi/L		105	80	120			
Lab ID: C15040041-001AMS		Sample Matrix Spike				Run: ALPHANALYST_150410A				04/15/15 14:04
Thorium 230		1.25E-06	pCi/L		109	70	130			
Lab ID: C15040041-001AMSD		Sample Matrix Spike Duplicate				Run: ALPHANALYST_150410A				04/15/15 14:04
Thorium 230		1.18E-06	pCi/L		101	70	130	5.8	48	
Lab ID: MB-44339	6	Method Blank				Run: ALPHANALYST_150410A				04/15/15 14:04
Thorium 230		0.2	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Thorium 232		0.06	pCi/L							U
Thorium 232 precision (±)		0.1	pCi/L							
Thorium 232 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 05/10/15
Project: 1st Quarter Air 2015
Work Order: C15040118

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										Batch: T_23269
Lab ID: MB-23269	3	Method Blank				Run: SUB-T62397				04/16/15 17:37
Lead 210		-1	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Lab ID: LCS-23269		Laboratory Control Sample				Run: SUB-T62397				04/16/15 19:20
Lead 210		154	pCi/L		117	80	120			
Lab ID: C15040118-001AMS		Sample Matrix Spike				Run: SUB-T62397				04/16/15 20:48
Lead 210		3.90E-05	pCi/L		216	70	130			S
- Sample activity for this radionuclide is much larger than the spike activity added. Therefore the matrix spike recovery could not be calculated. The MB, LCS and the RPD c the MS/MSD pair are acceptable; this batch is approved.										
Lab ID: C15040118-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-T62397				04/16/15 21:02
Lead 210		3.65E-05	pCi/L		165	70	130	6.7	42.7	S
- Sample activity for this radionuclide is much larger than the spike activity added. Therefore the matrix spike recovery could not be calculated. The MB, LCS and the RPD c the MS/MSD pair are acceptable; this batch is approved.										

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Air 2015

Report Date: 05/10/15
Work Order: C15040118

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS2-C_150409A		
Lab ID: ICV		Initial Calibration Verification Standard							04/09/15 11:38	
Uranium		0.0508	mg/L	0.00030	102	90	110			
Method: SW6020									Batch: 44339	
Lab ID: MB-44339		Method Blank				Run: ICPMS2-C_150409A			04/09/15 12:35	
Uranium		0.0001	mg/L	9E-06						
Lab ID: LCS2-44339		Laboratory Control Sample				Run: ICPMS2-C_150409A			04/09/15 12:36	
Uranium		0.0912	mg/L	8.5E-06	91	85	115			
Lab ID: C15040041-001ADIL		Serial Dilution				Run: ICPMS2-C_150409A			04/09/15 13:40	
Uranium		3.02E-11	mg/L	1.5E-10					20	
Lab ID: C15040118-008AMS		Sample Matrix Spike				Run: ICPMS2-C_150409A			04/09/15 14:01	
Uranium		1.43E-08	mg/L	1.5E-10	99	75	125			
Lab ID: C15040118-008AMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_150409A			04/09/15 14:02	
Uranium		1.36E-08	mg/L	1.5E-10	84	75	125	27	20	R
Method: SW6020									Batch: 44339	
Lab ID: C15040118-008AMS		Sample Matrix Spike				Run: ICPMS2-C_150413B			04/13/15 21:18	
Uranium		1.46E-08	mg/L	1.5E-10	104	75	125			
Lab ID: C15040118-008AMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_150413B			04/13/15 21:20	
Uranium		1.35E-08	mg/L	1.5E-10	83	75	125	7.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

Work Order Receipt Checklist

Energy Fuels Resources (USA) Inc

C15040118

Login completed by: Corinne Wagner
Reviewed by: BL2000\swaldrop
Reviewed Date: 4/8/2015

Date Received: 4/2/2015
Received by: cjm
Carrier name: Next Day Air

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Applicable ☑
Container/Temp Blank temperature:	N/A°C		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Sample BHV-7 was not listed on the COC but was logged in per samples received.

CHAIN OF CUSTODY

Samples Shipped to: Energy Laboraties
2393 Salt Creek Hwy.
Casper WY, 82601

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
1st Quarter Air 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
BHV-1	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-2	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-4	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-5	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-6	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-8	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
Blanks	12/29/14 - 3/30/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	4/1/15 1600		
Relinquished By:(Signature)	**Date/Time**	**Received By:(Signature)**	**Date/Time**
		Cherol Minter	4/2/15 09:25

CIS040118

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953417	12/29/2014	1/5/2015	60953.59	61123.36	10186.2	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9796.4	4.4504	4.5155	65.1	0.0066	101.1
2	8953415	1/5/2015	1/12/2015	61123.36	61288.85	9929.4	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9451.5	4.4582	4.5496	91.4	0.0097	98.5
3	8953402	1/12/2015	1/19/2015	61288.85	61458.58	10183.8	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9696.6	4.4580	4.5169	58.9	0.0061	101.0
4	8953401	1/19/2015	1/26/2015	61458.58	61625.66	10024.8	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9524.8	4.4547	4.5098	55.1	0.0058	99.5
5	8970392	1/26/2015	2/2/2015	61625.66	61797.52	10311.6	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9745.4	4.4042	4.4609	56.7	0.0058	102.3
6	8970383	2/2/2015	2/9/2015	61797.52	61961.39	9832.2	4.0	3.8	3.9	5.8	278.9	622.30	1.06	0.93	32.76	9120.8	4.3933	4.4641	70.8	0.0078	97.5
7	8970380	2/9/2015	2/16/2015	61961.39	62129.01	10057.2	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9430.6	4.4121	4.4918	79.7	0.0085	99.8
8	8970367	2/16/2015	2/23/2015	62129.01	62301.02	10320.6	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9742.4	4.4078	4.5134	105.6	0.0108	102.4
9	8970364	2/23/2015	3/2/2015	62301.02	62466.37	9921	3.5	4.0	3.8	-1.0	272.2	616.71	1.04	0.92	32.48	9125.0	4.3937	4.4423	48.6	0.0053	98.4
10	8970356	3/2/2015	3/9/2015	62466.37	62631.34	9898.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9388.9	4.4591	4.5310	71.9	0.0077	98.2
11	8970342	3/9/2015	3/16/2015	62631.34	62798.8	10047.6	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9414.1	4.4439	4.5419	98.0	0.0104	99.7
12	8970341	3/16/2015	3/23/2015	62798.8	62971.14	10340.4	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9629.4	4.4490	4.5951	146.1	0.0152	102.6
13	8970326	3/23/2015	3/30/2015	62971.14	63135.1	9837.6	3.5	4.0	3.8	11.9	285.0	621.28	1.06	0.90	31.86	8874.1	4.3948	4.5241	129.3	0.0146	97.6
					Totals	130890.6							13.88	12.21	431.16	122940.0	57.579	58.656	1077.2	0.1142	
					Averages	10068.5	3.9	4.0	4.0	3.8	277.0	620.98692	1.07	0.94	33.17	9456.9	4.429	4.512	82.9	0.0088	99.9

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953418	12/29/2014	1/5/2015	71442.67	71609.1	9985.8	4.5	4.0	4.3	-6.5	266.7	619.50	1.09	0.99	35.00	9897.4	4.4580	4.5522	94.2	0.0095	99.1
2	8953414	1/5/2015	1/12/2015	71609.1	71775.61	9990.6	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9509.7	4.4659	4.5637	97.8	0.0103	99.1
3	8953403	1/12/2015	1/19/2015	71775.61	71946.03	10225.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9736.0	4.4561	4.5288	72.7	0.0075	101.4
4	8970400	1/19/2015	1/26/2015	71946.03	72112.84	10008.6	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9509.4	4.4137	4.4894	75.7	0.0080	99.3
5	8970391	1/26/2015	2/2/2015	72112.84	72284.62	10306.8	3.0	4.0	3.5	3.9	277.0	621.53	1.01	0.88	31.23	9115.5	4.4098	4.4959	86.1	0.0094	102.2
6	8970384	2/2/2015	2/9/2015	72284.62	72449.97	9921	4.0	4.0	4.0	5.8	279.0	622.30	1.08	0.94	33.28	9349.0	4.3965	4.5007	104.2	0.0111	98.4
7	8970379	2/9/2015	2/16/2015	72449.97	72616.48	9990.6	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9368.2	4.4069	4.5693	162.4	0.0173	99.1
8	8970368	2/16/2015	2/23/2015	72616.48	72788.34	10311.6	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9734.0	4.4069	4.6016	194.7	0.0200	102.3
9	8970363	2/23/2015	3/2/2015	72788.34	72953.69	9921	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9422.4	4.3943	4.4671	72.8	0.0077	98.4
10	8970355	3/2/2015	3/9/2015	72953.69	73119.19	9930	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9419.1	4.4444	4.5378	93.4	0.0099	98.5
11	8970343	3/9/2015	3/16/2015	73119.19	73286.73	10052.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9418.6	4.4501	4.6152	165.1	0.0175	99.7
12	8970340	3/16/2015	3/23/2015	73286.73	73458.73	10320	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9610.4	4.4683	4.7229	254.6	0.0265	102.4
13	8970327	3/23/2015	3/30/2015	73458.73	73623.18	9867	4.5	4.0	4.3	11.9	285.0	619.76	1.12	0.96	33.86	9460.3	4.3895	4.5985	209.0	0.0221	97.9
					Totals	130830.6							13.97	12.28	433.63	123550.0	57.560	59.243	1682.7	0.1769	
					Averages	10063.9	4.0	4.0	4.0	3.8	277.0	620.87	1.07	0.94	33.36	9503.8	4.428	4.557	129.4	0.0136	99.8

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: #######
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953419	12/29/2014	1/5/2015	46629.41	46795.09	9940.8	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9560.4	4.4726	4.5308	58.2	0.0061	98.6
2	8953413	1/5/2015	1/12/2015	46795.09	46961.84	10005	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9523.4	4.4652	4.5450	79.8	0.0084	99.3
3	8953404	1/12/2015	1/19/2015	46961.84	47129.86	10081.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9598.9	4.4645	4.5123	47.8	0.0050	100.0
4	8970399	1/19/2015	1/26/2015	47129.86	47302.27	10344.6	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9828.7	4.3981	4.4352	37.1	0.0038	102.6
5	8970390	1/26/2015	2/2/2015	47302.27	47470.66	10103.4	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9548.6	4.4147	4.4543	39.6	0.0041	100.2
6	8970385	2/2/2015	2/9/2015	47470.6	47635.05	9867	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9298.7	4.4149	4.4697	54.8	0.0059	97.9
7	8970378	2/9/2015	2/16/2015	47635.05	47802.1	10023	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9398.6	4.4135	4.4778	64.3	0.0068	99.4
8	8970369	2/16/2015	2/23/2015	47802.1	47975.43	10399.8	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9817.2	4.3920	4.4748	82.8	0.0084	103.2
9	8970362	2/23/2015	3/2/2015	47975.43	48140.9	9928.2	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9429.3	4.4282	4.4758	47.6	0.0050	98.5
10	8970354	3/2/2015	3/9/2015	48140.9	48303.54	9758.4	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9256.3	4.4779	4.5405	62.6	0.0068	96.8
11	8970344	3/9/2016	3/16/2015	48303.54	48471.07	10051.8	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9418.0	4.4460	4.5393	93.3	0.0099	99.7
12	8970339	3/16/2015	3/23/2015	48471.07	48643.37	10338	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9627.1	4.4595	4.5875	128.0	0.0133	102.6
13	8970328	3/23/2015	3/30/2015	48643.37	48807.22	9831	3.5	4.0	3.8	11.9	285.0	619.76	1.06	0.90	31.82	8857.3	4.4299	4.5114	81.5	0.0092	97.5
					Totals	130672.2							13.94	12.25	432.70	123162.4	57.677	58.554	877.4	0.0928	
					Averages	10051.7	4.0	4.0	4.0	3.8	277.0	620.87	1.07	0.94	33.28	9474.0	4.437	4.504	67.5	0.0071	99.7

Comments:

Insert weekly flow check values in yellow columns.

Energy Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953420	12/29/2014	1/5/2015	70154.68	70320.03	9921	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9541.3	4.4644	4.5299	65.5	0.0069	98.4
2	8953412	1/5/2015	1/12/2015	70320.03	70487.13	10026	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9543.4	4.4547	4.5446	89.9	0.0094	99.5
3	8953405	1/12/2015	1/19/2015	70487.13	70655.15	10081.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9598.9	4.4602	4.5240	63.8	0.0066	100.0
4	8970398	1/19/2015	1/26/2015	70655.15	70827.62	10348.2	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9832.1	4.3970	4.4454	48.4	0.0049	102.7
5	8970389	1/26/2015	2/2/2015	70827.62	70996.04	10105.2	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9550.3	4.4103	4.4640	53.7	0.0056	100.2
6	8970386	2/2/2015	2/9/2015	70996.04	71160.58	9872.4	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9303.7	4.4168	4.4864	69.6	0.0075	97.9
7	8970377	2/9/2015	2/16/2015	71160.58	71327.17	9995.4	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9372.7	4.4012	4.4860	84.8	0.0090	99.2
8	8970370	2/16/2015	2/23/2015	71327.17	71500.89	10423.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9839.3	4.3921	4.5070	114.9	0.0117	103.4
9	8970361	2/23/2015	3/2/2015	71500.89	71665.93	9902.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9404.8	4.4539	4.5107	56.8	0.0060	98.2
10	8970353	3/2/2015	3/9/2015	71665.93	71828.94	9780.6	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9277.3	4.4488	4.5219	73.1	0.0079	97.0
11	8970345	3/9/2015	3/16/2015	71828.94	71996.08	10028.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9396.1	4.4445	4.5561	111.6	0.0119	99.5
12	8970338	3/16/2015	3/23/2015	71996.08	72168.75	10360.2	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9647.8	4.3807	4.5344	153.7	0.0159	102.8
13	8970329	3/23/2015	3/30/2015	72168.75	72332.18	9805.8	4.0	4.0	4.0	11.9	285.0	621.28	1.09	0.93	32.89	9133.7	4.4027	4.6036	200.9	0.0220	97.3
					Totals	130650.0							13.97	12.28	433.77	123441.5	57.527	58.714	1186.7	0.1254	
					Averages	10050.0	4.0	4.0	4.0	3.8	277.0	620.98692	1.07	0.94	33.37	9495.5	4.425	4.516	91.3	0.0096	99.7

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953420	12/29/2014	1/5/2015	70154.68	70320.03	9921	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9541.3	4.4644	4.5299	65.5	0.0069	98.4
2	8953412	1/5/2015	1/12/2015	70320.03	70487.13	10026	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9543.4	4.4547	4.5446	89.9	0.0094	99.5
3	8953405	1/12/2015	1/19/2015	70487.13	70655.15	10081.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9598.9	4.4602	4.5240	63.8	0.0066	100.0
4	8970398	1/19/2015	1/26/2015	70655.15	70827.62	10348.2	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9832.1	4.3970	4.4454	48.4	0.0049	102.7
5	8970389	1/26/2015	2/2/2015	70827.62	70996.04	10105.2	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9550.3	4.4103	4.4640	53.7	0.0056	100.2
6	8970386	2/2/2015	2/9/2015	70996.04	71160.58	9872.4	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9303.7	4.4168	4.4864	69.6	0.0075	97.9
7	8970377	2/9/2015	2/16/2015	71160.58	71327.17	9995.4	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9372.7	4.4012	4.4860	84.8	0.0090	99.2
8	8970370	2/16/2015	2/23/2015	71327.17	71500.89	10423.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9839.3	4.3921	4.5070	114.9	0.0117	103.4
9	8970361	2/23/2015	3/2/2015	71500.89	71665.93	9902.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9404.8	4.4539	4.5107	56.8	0.0060	98.2
10	8970353	3/2/2015	3/9/2015	71665.93	71828.94	9780.6	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9277.3	4.4488	4.5219	73.1	0.0079	97.0
11	8970345	3/9/2015	3/16/2015	71828.94	71996.08	10028.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9396.1	4.4445	4.5561	111.6	0.0119	99.5
12	8970338	3/16/2015	3/23/2015	71996.08	72168.75	10360.2	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9647.8	4.3807	4.5344	153.7	0.0159	102.8
13	8970329	3/23/2015	3/30/2015	72168.75	72332.18	9805.8	4.0	4.0	4.0	11.9	285.0	621.28	1.09	0.93	32.89	9133.7	4.4027	4.6036	200.9	0.0220	97.3
					Totals	130650.0							13.97	12.28	433.77	123441.5	57.527	58.714	1186.7	0.1254	
					Averages	10050.0	4.0	4.0	4.0	3.8	277.0	620.98692	1.07	0.94	33.37	9495.5	4.425	4.516	91.3	0.0096	99.7

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953421	12/29/2014	1/5/2015	6183.76	6349.48	9943.2	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9562.7	4.4490	4.5108	61.8	0.0065	98.6
2	8953411	1/5/2015	1/12/2015	6349.48	6516.2	10003.2	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9521.7	4.4703	4.5604	90.1	0.0095	99.2
3	8953406	1/12/2015	1/19/2015	6516.2	6684.23	10081.8	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9599.5	4.4688	4.5240	55.2	0.0058	100.0
4	8970397	1/19/2015	1/26/2015	6684.23	6856.66	10345.8	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9829.8	4.4039	4.4491	45.2	0.0046	102.6
5	8970388	1/26/2015	2/2/2015	6856.66	7025.1	10106.4	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9551.5	4.4068	4.4594	52.6	0.0055	100.3
6	8970387	2/2/2015	2/9/2015	7025.1	7189.57	9868.2	4.0	3.0	3.5	5.8	278.9	622.30	1.01	0.88	31.14	8702.8	4.4083	4.4713	63.0	0.0072	97.9
7	8970376	2/9/2015	2/16/2015	7189.57	7356.55	10018.8	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9394.6	4.3912	4.4771	85.9	0.0091	99.4
8	8970371	2/16/2015	2/23/2015	7356.55	7529.92	10402.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9819.5	4.4034	4.5160	112.6	0.0115	103.2
9	8970360	2/23/2015	3/2/2015	7529.92	7695.44	9931.2	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9432.1	4.4602	4.5217	61.5	0.0065	98.5
10	8970352	3/2/2015	3/9/2015	7695.44	7858.01	9754.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9252.3	4.4404	4.5200	79.6	0.0086	96.8
11	8970346	3/9/2015	3/16/2015	7858.01	8025.85	10070.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9435.4	4.4513	4.5741	122.8	0.0130	99.9
12	8970335	3/16/2015	3/23/2015	8025.58	8197.87	10337.4	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9626.6	4.3795	4.5064	126.9	0.0132	102.6
13	8970330	3/23/2015	3/30/2015	8197.87	8361.83	9837.6	5.0	4.0	4.5	11.9	285.0	621.28	1.16	0.99	34.88	9715.9	4.3800	4.5720	192.0	0.0198	97.6
					Totals	130700.4							13.97	12.28	433.62	123444.4	57.513	58.662	1149.2	0.1207	
					Averages	10053.9	4.1	3.9	4.0	3.8	277.0	620.98692	1.07	0.94	33.36	9495.7	4.424	4.512	88.4	0.0093	99.7

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953436	1/26/2015	2/2/2015	0	120.35	7221	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	6824.5	4.4414	4.4947	53.3	0.0078	71.6
2	8970396	2/2/2015	2/9/2015	120.35	147.34	1619.4	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	1526.1	4.4124	4.4236	11.2	0.0073	16.1
3	8970375	2/9/2015	2/16/2015	147.34	291.62	8656.8	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	8117.5	4.4027	4.5350	132.3	0.0163	85.9
4	8970372	2/16/2015	2/23/2015	291.62	322.99	1882.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	1776.8	4.4087	4.6752	266.5	0.1500	18.7
5	8970359	2/23/2015	3/2/2015	322.99	350.48	1649.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	1566.5	4.4536	4.4714	17.8	0.0114	16.4
6	8970351	3/2/2015	3/9/2015	350.48	515.4	9895.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9386.0	4.4376	4.5365	98.9	0.0105	98.2
7	8970347	3/9/2015	3/16/2015	515.4	682.86	10047.6	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9414.1	4.4523	4.5967	144.4	0.0153	99.7
8	8970336	3/16/2015	3/23/2015	682.86	855.52	10359.6	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9647.3	4.4011	4.5149	113.8	0.0118	102.8
9	8970331	3/23/2015	3/30/2015	855.52	1000.67	8709	4.5	4.0	4.3	11.9	285.0	621.28	1.12	0.96	33.90	8360.3	4.3731	4.4239	50.8	0.0061	86.4
10						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
11						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
12						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
13						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
					Totals	60040.2							#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	39.783	40.672	889.0	#DIV/0!	
					Averages	4618.5	4.1	4.0	#DIV/0!	5.9	277.2	620.37778	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.420	4.519	68.4	#DIV/0!	45.8

Comments:
Insert weekly flow check values in yellow columns.

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: ########
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8953422	12/29/2014	1/5/2015	116.35	172.21	3351.6	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	3223.3	4.4530	4.4661	13.1	0.0041	33.3
2	8953407	1/26/2015	2/2/2015	172.21	297.74	7531.8	4.0	3.5	3.8	3.9	277.0	621.53	1.04	0.92	32.32	6893.6	4.4607	4.4946	33.9	0.0049	74.7
3	8970395	2/2/2015	2/9/2015	297.74	462.21	9868.2	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9299.8	4.3941	4.4370	42.9	0.0046	97.9
4	8970374	2/9/2015	2/16/2015	462.21	629.68	10048.2	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9422.2	4.3984	4.4764	78.0	0.0083	99.7
5	8970373	2/16/2015	2/23/2015	629.68	801.5	10309.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9731.7	4.4045	4.5215	117.0	0.0120	102.3
6	8970358	2/23/2015	3/2/2015	801.5	967.09	9935.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9436.1	4.4459	4.4901	44.2	0.0047	98.6
7	8970350	3/2/2015	3/9/2015	967.09	1131.85	9885.6	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9376.9	4.4541	4.5297	75.6	0.0081	98.1
8	8970348	3/9/2015	3/16/2015	1131.85	1299.34	10049.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9415.7	4.4357	4.4583	22.6	0.0024	99.7
9	8970337	3/16/2015	3/23/2015	1299.34	1303.34	240	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	223.5	4.3762	4.3747	-1.5	-0.0067	2.4
10	8970332	3/23/2015	3/30/2015	1303.34	1466.51	9790.2	6.0	4.0	5.0	11.9	285.0	621.28	1.22	1.04	36.75	10189.2	4.3662	4.4846	118.4	0.0116	97.1
11						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
12						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
13						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
					Totals	81009.6							#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	44.189	44.733	544.2	#DIV/0!	
					Averages	6231.5	4.2	4.0	#DIV/0!	4.7	276.7	620.29	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.419	4.473	41.9	#DIV/0!	61.8

Comments:

Insert weekly flow check values in yellow columns.

		Period: December 29th, 2014-March 30th, 2015		
Week #	Filter Number	Start Date	Stop Date	Net
1	8953409	29-Dec-14	05-Jan-15	4.4656
2	8953408	05-Jan-15	12-Jan-15	4.4653
3	8970394	12-Jan-15	19-Jan-15	4.3745
4	8970393	19-Jan-15	26-Jan-15	4.4027
5	8970382	26-Jan-15	02-Feb-15	4.4207
6	8970381	02-Feb-15	09-Feb-15	4.4209
7	8970366	09-Feb-15	16-Feb-15	4.3908
8	8970365	16-Feb-15	23-Feb-15	4.4159
9	8970357	23-Feb-15	02-Mar-15	4.4509
10	8970349	02-Mar-15	09-Mar-15	4.4323
11	8970334	09-Mar-15	16-Mar-15	4.3708
12	8970333	16-Mar-15	23-Mar-15	4.3386
13	8970325	23-Mar-15	30-Mar-15	4.3908
	Totals			4.4108

ANALYTICAL SUMMARY REPORT

August 13, 2015

Energy Fuels Resources (USA) Inc
225 Union Blvd Ste 600
Lakewood, CO 80228-1826

Work Order: C15070141

Project Name: 2nd Quarter Air 2015

Energy Laboratories, Inc. Casper WY received the following 8 samples for Energy Fuels Resources (USA) Inc on 7/2/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15070141-001	BHV-1	06/29/15 00:00	07/02/15	Filter	Composite of two or more samples Client Provided Field Parameters Metals, Total Digestion, Total Metals RAD-AIR, Routine Radiological Reports RAD Alternate Unit Reporting Air Filters Lead 210 Radium 226 Thorium, Isotopic
C15070141-002	BHV-2	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-003	BHV-4	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-004	BHV-5	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-005	BHV-6	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-006	BHV-7	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-007	BHV-8	06/29/15 00:00	07/02/15	Filter	Same As Above
C15070141-008	Blanks	06/29/15 00:00	07/02/15	Filter	Same As Above

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Senior Project Specialist

Digitally signed by
Steve Carlston
Date: 2015.08.13 14:51:07 -06:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015
Work Order: C15070141

Report Date: 08/13/15

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.
Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 08/13/15
Project: 2nd Quarter Air 2015
Work Order: C15070141

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 45113
Lab ID: LCS-45113		Laboratory Control Sample				Run: G5000W_150709A				07/15/15 07:37
Radium 226		20.2	pCi/L		102	80	120			
Lab ID: MB-45113	3	Method Blank				Run: G5000W_150709A				07/15/15 07:37
Radium 226		0.3	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Lab ID: C15070127-004AMS		Sample Matrix Spike				Run: G5000W_150709A				07/15/15 07:37
Radium 226		1.97E-06	pCi/L		96	70	130			
Lab ID: C15070127-004AMSD		Sample Matrix Spike Duplicate				Run: G5000W_150709A				07/15/15 07:37
Radium 226		2.12E-06	pCi/L		102	70	130	7.3	49.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015

Report Date: 08/13/15
Work Order: C15070141

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: 45113
Lab ID: LCS-45113		Laboratory Control Sample				Run: ALPHANALYST_150728A				08/01/15 21:51
Thorium 230		29.2	pCi/L		107	80	120			
Lab ID: C15070141-008AMS		Sample Matrix Spike				Run: ALPHANALYST_150728A				08/01/15 21:51
Thorium 230		53.4	pCi/L		98	70	130			
- Matrix Spike sample lost during analysis. MSD is reported as an MS; there is no Duplicate. The LCS, MS(D), MB, and all tracer recoveries are acceptable. The batch is approved.										
Lab ID: MB-45113	6	Method Blank				Run: ALPHANALYST_150728A				08/01/15 21:51
Thorium 230		0.2	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Thorium 232		0.01	pCi/L							U
Thorium 232 precision (±)		0.1	pCi/L							
Thorium 232 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015

Report Date: 08/13/15
Work Order: C15070141

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**E909.0**										Batch: T_23780
Lab ID:	**LCS-23780**		Laboratory Control Sample				Run: SUB-T63885				07/16/15 17:09
Lead 210			390	pCi/L		97	80	120			
Lab ID:	**MB-23780**	3	Method Blank				Run: SUB-T63885				07/16/15 18:24
Lead 210			6	pCi/L							U
Lead 210 precision (±)			10	pCi/L							
Lead 210 MDC			20	pCi/L							
Lab ID:	**C15070141-001AMS**		Sample Matrix Spike				Run: SUB-T63885				07/16/15 20:21
Lead 210			2.2E-05	pCi/L		0	70	130			
Lab ID:	**C15070141-001AMSD**		Sample Matrix Spike Duplicate				Run: SUB-T63885				07/16/15 20:41
Lead 210			1.7E-05	pCi/L		0	70	130	28	42.8	

- Sample activity for this radionuclide is much larger than the spike activity added. Therefore the matrix spike recovery could not be calculated. The LCS and the RPD of the MS/MSD pair are acceptable; this batch is approved.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Air 2015

Report Date: 08/13/15
Work Order: C15070141

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**SW6020**									Analytical Run: ICPMS2-C_150708A	
Lab ID:	**ICV**		Initial Calibration Verification Standard							07/08/15 12:29	
Uranium			0.0499	mg/L	0.00030	100	90	110			
Lab ID:	**ICSA**		Interference Check Sample A							07/08/15 12:32	
Uranium			4.60E-06	mg/L	0.00030						
Lab ID:	**ICSAB**		Interference Check Sample AB							07/08/15 12:35	
Uranium			1.00E-06	mg/L	0.00030						
Method:	**SW6020**										Batch: 45113
Lab ID:	**MB-45113**		Method Blank				Run: ICPMS2-C_150708A			07/08/15 21:55	
Uranium			5E-05	mg/filter	4E-06						
Lab ID:	**LCS2-45113**		Laboratory Control Sample				Run: ICPMS2-C_150708A			07/08/15 21:59	
Uranium			0.10	mg/filter	0.00030	101	70	130			
Lab ID:	**C15070127-001ADIL**		Serial Dilution				Run: ICPMS2-C_150708A			07/08/15 22:08	
Uranium			1.2E-09	mg/filter	0.00030		0	0		10	
Lab ID:	**C15070141-008AMS**		Sample Matrix Spike				Run: ICPMS2-C_150708A			07/08/15 23:25	
Uranium			0.0554	mg/L	8.5E-06	108	75	125			
Lab ID:	**C15070141-008AMSD**		Sample Matrix Spike Duplicate				Run: ICPMS2-C_150708A			07/08/15 23:28	
Uranium			0.0554	mg/L	8.5E-06	108	75	125	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

Work Order Receipt Checklist

Energy Fuels Resources (USA) Inc C15070141

Login completed by: Cherol J. Minton
Reviewed by: BL2000\swaldrop
Reviewed Date: 7/8/2015

Date Received: 7/2/2015
Received by: cjm
Carrier name: NDA

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Applicable ☑
Container/Temp Blank temperature:	NA°C		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Energy Laboraties
2393 Salt Creek Hwy.
Casper WY, 82601

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
2nd Quarter Air 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
BHV-1	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-2	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-4	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-5	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-6	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-7	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
BHV-8	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232
Blanks	3/30/15 - 6/29/15	NA	U-NAT, TH-230, Ra-226, Pb-210, TH-232

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	6/30/15 1200		
Relinquished By:(Signature)	**Date/Time**	**Received By:(Signature)**	**Date/Time**
		Cheryl Mint	7/2/15 9:50

C15070141

BHV-1

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		Ts Weekly Avg Temp (°C)		Pa Weekly Avg Pressure (mm Hg)									
1	8970324	3/30/2015	4/6/2015	63135.1	63303.39	10097.4	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9396.3	4.3761	4.6944	318.3	0.0339	100.2
2	8970317	4/6/2015	4/13/2015	63303.39	63472.11	10123.2	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9424.0	4.3931	4.6669	273.8	0.0291	100.4
3	8970308	4/13/2015	4/20/2015	63472.11	63639.35	10034.4	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9401.5	4.3406	4.5561	215.5	0.0229	99.5
4	8953795	4/20/2015	4/27/2015	63639.35	63806.59	10034.4	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9307.9	4.5014	4.6027	101.3	0.0109	99.5
5	8953792	4/27/2015	5/4/2015	63806.59	63975.59	10140	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9423.3	4.4150	4.5410	126.0	0.0134	100.6
6	8953779	5/4/2015	5/11/2015	63975.59	64021.67	2764.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	2582.1	4.4307	4.4709	40.2	0.0156	27.4
7	8953770	5/11/2015	5/18/2015	64021.67	64187.73	9963.6	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9246.6	4.2405	4.5742	333.7	0.0361	98.8
8	8953769	5/18/2015	5/26/2015	64187.73	64380.15	11545.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10721.8	4.4353	4.5885	153.2	0.0143	114.5
9	8953760	5/26/2015	6/1/2015	64380.15	64526.22	8764.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8074.5	4.4462	4.5147	68.5	0.0085	86.9
10	8953751	6/1/2015	6/8/2015	64526.22	64693.76	10052.4	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9248.5	4.4291	4.5969	167.8	0.0181	99.7
11	8953744	6/8/2015	6/15/2015	64696.76	64861.4	9878.4	4.0	4.0	4.0	18.4	291.6	618.49	1.10	0.92	32.44	9075.5	4.4170	4.5026	85.6	0.0094	98.0
12	8953736	6/15/2015	6/22/2015	64861.4	65027.5	9966	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9085.0	4.4399	4.6447	204.8	0.0225	98.9
13	8953729	6/22/2015	6/29/2015	65027.5	65198.65	10269	4.0	4.0	4.0	25.5	298.7	622.55	1.11	0.91	32.16	9352.2	4.4303	4.6850	254.7	0.0272	101.9
					Totals	123633.0							14.26	12.03	424.78	114339.2	57.295	59.639	2343.4	0.2619	
					Averages	9510.2	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.68	8795.3	4.407	4.588	180.3	0.0201	94.3

Comments:

Insert weekly flow check values in yellow columns.

[redacted]

BHV-2

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		Ta Weig. Avg. Temp. (°C)		Pa Weig. Avg. (mmHg)									
1	8970323	3/30/2015	4/6/2015	73623.18	73790.43	10035	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9338.2	4.3872	4.7489	361.7	0.0387	99.6
2	8970316	4/6/2015	4/13/2015	73790.43	73960.07	10178.4	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9475.4	4.3994	4.8104	411.0	0.0434	101.0
3	8970307	4/13/2015	4/20/2015	73960.07	74127.2	10027.8	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9395.3	4.3770	4.6235	246.5	0.0262	99.5
4	8953796	4/20/2015	4/27/2015	74127.2	74294.48	10036.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9310.1	4.4279	4.6288	200.9	0.0216	99.6
5	8953791	4/27/2015	5/4/2015	74294.48	74462.6	10087.2	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9374.3	4.4335	4.5953	161.8	0.0173	100.1
6	8953780	5/4/2015	5/11/2015	74462.6	74631.47	10132.2	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9462.6	4.4489	4.6837	234.8	0.0248	100.5
7	8953771	5/11/2015	5/18/2015	74631.68	74797.73	9963	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9246.0	4.4287	5.2341	805.4	0.0871	98.8
8	8953768	5/18/2015	5/26/2015	74797.73	74990.27	11552.4	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10728.5	4.4176	4.5820	164.4	0.0153	114.6
9	8953759	5/26/2015	6/1/2015	74990.27	75134.68	8664.6	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	7982.7	4.4460	4.5513	105.3	0.0132	86.0
10	8953752	6/1/2015	6/8/2015	75134.68	75303.78	10146	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9334.6	4.4265	4.6494	222.9	0.0239	100.7
11	8953743	6/8/2015	6/15/2015	75303.78	75474.25	10228.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9396.3	4.4373	4.5504	113.1	0.0120	101.5
12	8953735	6/15/2015	6/22/2015	75470.25	75636.83	9994.8	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9111.3	4.4461	4.7825	336.4	0.0369	99.2
13	8953728	6/22/2015	6/29/2015	75636.83	75807.62	10247.4	4.5	4.0	4.3	25.5	298.7	622.55	1.15	0.94	33.15	9618.1	4.4356	4.8572	421.6	0.0438	101.7
					Totals	131293.8							14.30	12.06	425.76	121773.5	57.512	61.298	3785.8	0.4043	
					Averages	10099.5	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.75	9367.2	4.424	4.715	291.2	0.0311	100.2

Comments:

Insert weekly flow check values in yellow columns.

Green columns are calculated averages from the field station.

BHV-4

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		Ta Weekly Avg Temp (°C)		Pa Weekly Avg Pressure (mmHg)									
1	8970322	3/30/2015	4/6/2015	48807.22	48975.68	10107.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9405.8	4.4033	4.6879	284.6	0.0303	100.3
2	8970315	4/6/2015	4/13/2015	48975.68	49144.06	10102.8	3.5	4.0	3.8	10.2	283.3	616.96	1.06	0.90	31.84	9108.1	4.3719	4.6277	255.8	0.0281	100.2
3	8970306	4/13/2015	4/20/2015	49144.06	49311.54	10048.8	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9415.0	4.3504	4.5369	186.5	0.0198	99.7
4	8953797	4/20/2015	4/27/2015	49311.54	49478.82	10036.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9310.1	4.4319	4.6108	178.9	0.0192	99.6
5	8953790	4/27/2015	5/4/2015	49478.82	49646.97	10089	3.5	4.0	3.8	10.7	283.9	615.95	1.06	0.90	31.78	9080.0	4.4124	4.5313	118.9	0.0131	100.1
6	8953781	5/4/2015	5/11/2015	49646.97	49816.05	10144.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9474.4	4.4199	4.5665	146.6	0.0155	100.6
7	8953772	5/11/2015	5/18/2015	49816.05	49982.89	10010.4	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9290.0	4.4353	4.5865	151.2	0.0163	99.3
8	8953767	5/18/2015	5/26/2015	49982.89	50174.51	11497.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10677.2	4.4282	4.5868	158.6	0.0149	114.1
9	8953758	5/26/2015	6/1/2015	50174.51	50320.48	8758.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.0	4.4377	4.5333	95.6	0.0118	86.9
10	8953750	6/1/2015	6/8/2015	50320.48	50488.01	10051.8	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9247.9	4.4291	4.6079	178.8	0.0193	99.7
11	8953742	6/8/2015	6/15/2015	50488.01	50656.58	10114.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9291.6	4.4384	4.5189	80.5	0.0087	100.3
12	8953734	6/15/2015	6/22/2015	50656.58	50822.55	9958.2	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9077.9	4.4671	4.6584	191.3	0.0211	98.8
13	8953727	6/22/2015	6/29/2015	50822.55	50996.24	10421.4	4.0	4.0	4.0	25.5	298.7	622.55	1.11	0.91	32.16	9491.0	4.4494	4.7288	279.4	0.0294	103.4
					Totals	131341.2							14.19	11.97	422.71	120938.1	57.475	59.782	2306.7	0.2474	
					Averages	10103.2	3.9	4.0	4.0	14.5	287.6	618.54846	1.09	0.92	32.52	9302.9	4.421	4.599	177.4	0.0190	100.2

Comments:
Insert weekly flow check values in yellow columns.

[redacted]

BHV-5

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)													
1	8970321	3/30/2015	4/6/2015	72332.18	72500.74	10113.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9411.4	4.3793	4.8118	432.5	0.0460	100.3
2	8970314	4/6/2015	4/13/2015	72500.74	72669.13	10103.4	4.0.	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9405.6	4.3814	4.7610	379.6	0.0404	100.2
3	8970305	4/13/2015	4/20/2015	72669.13	72836.62	10049.4	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9415.5	4.3767	4.6949	318.2	0.0338	99.7
4	8953798	4/20/2015	4/27/2015	72836.62	73003.78	10029.6	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9303.4	4.4320	4.6200	188.0	0.0202	99.5
5	8953789	4/27/2015	5/4/2015	73003.78	73172.54	10125.6	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9410.0	4.4113	4.5759	164.6	0.0175	100.5
6	8953782	5/4/2015	5/11/2015	73172.54	73341.13	10115.4	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9447.0	4.4408	4.6188	178.0	0.0188	100.4
7	8953773	5/11/2015	5/18/2015	73341.13	73508.35	10033.2	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9311.2	4.4438	4.5898	146.0	0.0157	99.5
8	8953766	5/18/2015	5/26/2015	73508.35	73699.6	11475	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10656.6	4.4135	4.5540	140.5	0.0132	113.8
9	8953757	5/26/2015	6/1/2015	73699.6	73845.56	8757.6	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8068.4	4.4401	4.5389	98.8	0.0122	86.9
10	8953749	6/1/2015	6/8/2015	73845.56	74013.09	10051.8	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9247.9	4.4082	4.5576	149.4	0.0162	99.7
11	8953741	6/8/2015	6/15/2015	74013.09	74181.64	10113	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9290.5	4.4660	4.5435	77.5	0.0083	100.3
12	8953733	6/15/2015	6/22/2015	74181.64	74347.96	9979.2	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9097.1	4.4356	4.6271	191.5	0.0211	99.0
13	8953726	6/22/2015	6/29/2015	74347.96	74521.91	10437	3.5	4.0	3.8	25.5	298.7	622.55	1.08	0.88	31.15	9205.1	4.4250	4.6622	237.2	0.0258	103.5
					Totals	131383.8							14.23	12.00	423.76	121269.7	57.454	60.156	2701.8	0.2891	
					Averages	10106.4	4.0	4.0	4.0	14.5	287.6	618.54846	1.09	0.92	32.60	9328.4	4.420	4.627	207.8	0.0222	100.3

Comments:

Insert weekly flow check values in yellow columns.

[redacted]

BHV-6

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		Ta Wkly Avg Temp (°F)		Pa Wkly Avg Pressure (mmHg)									
1	8970320	3/30/2015	4/6/2015	8361.83	8530.2	10102.2	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9400.8	4.4025	4.7515	349.0	0.0371	100.2
2	8970313	4/6/2015	4/13/2015	8530.2	8698.66	10107.6	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9409.5	4.3818	4.7158	334.0	0.0355	100.3
3	8970304	4/13/2015	4/20/2015	8698.66	8866.08	10045.2	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9411.6	4.3797	4.6821	302.4	0.0321	99.7
4	8953799	4/20/2015	4/27/2015	8899.08	9033.13	8043	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	7460.7	4.4324	4.6915	259.1	0.0347	79.8
5	8953788	4/27/2015	5/4/2015	9033.13	9201.61	10108.8	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9394.4	4.4256	4.6110	185.4	0.0197	100.3
6	8953783	5/4/2015	5/11/2015	9201.61	9370.59	10138.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9468.8	4.4392	4.5941	154.9	0.0164	100.6
7	8953774	5/11/2015	5/18/2015	9370.59	9537.44	10011	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9290.6	4.4268	4.5694	142.6	0.0153	99.3
8	8953765	5/18/2015	5/26/2015	9537.44	9729.05	11496.6	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10676.6	4.4250	4.5784	153.4	0.0144	114.1
9	8953756	5/26/2015	6/1/2015	9729.05	9875.03	8758.8	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.5	4.4393	4.5555	116.2	0.0144	86.9
10	8953748	6/1/2015	6/8/2015	9875.03	10042.56	10051.8	4.0	4.0	4.0	17.8	290.9	618.99	1.10	0.92	32.50	9249.5	4.4284	4.5783	149.9	0.0162	99.7
11	8953740	6/8/2015	6/15/2015	10042.56	10211.14	10114.8	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9292.2	4.4402	4.5195	79.3	0.0085	100.3
12	8953732	6/15/2015	6/22/2015	10211.14	10377.1	9957.6	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9077.4	4.4314	4.6319	200.5	0.0221	98.8
13	8953725	6/22/2015	6/29/2015	10377.1	10550.87	10426.2	4.5	4.0	4.3	25.5	298.7	622.55	1.15	0.94	33.15	9785.9	4.4225	4.7419	319.4	0.0326	103.4
					Totals	129362.4							14.30	12.06	425.77	119987.4	57.475	60.221	2746.1	0.2992	
					Averages	9951.0	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.75	9229.8	4.421	4.632	211.2	0.0230	98.7

Comments:
Insert weekly flow check values in yellow columns.

Gross calibration and calculated average from the past month.

BHV-7

Energey Fuels Resources - White Mesa Mill
Period: March 30, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		[redacted]		[redacted]									
1	8970319	3/30/2015	4/6/2015	1000.67	1169.03	10101.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9400.2	4.3767	4.8219	445.2	0.0474	100.2
2	8970312	4/6/2015	4/13/2015	1169.03	1337.19	10089.6	3.5	4.0	3.8	10.2	283.3	616.96	1.06	0.90	31.84	9096.2	4.3659	4.7153	349.4	0.0384	100.1
3	8970303	4/13/2015	4/20/2015	1337.19	1504.56	10042.2	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9408.8	4.3853	4.6850	299.7	0.0319	99.6
4	8953800	4/20/2015	4/27/2015	1504.56	1671.03	9988.2	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9265.0	4.4318	4.5742	142.4	0.0154	99.1
5	8953787	4/27/2015	5/4/2015	1671.03	1838.94	10074.6	5.0	4.0	4.5	10.7	283.9	615.95	1.16	0.99	34.80	9927.1	4.4419	4.5425	100.6	0.0101	99.9
6	8953784	5/4/2015	5/11/2015	1838.94	2006.08	10028.4	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9365.7	4.4335	4.6238	190.3	0.0203	99.5
7	8953775	5/11/2015	5/18/2015	2006.08	2172.02	9956.4	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9239.9	4.4262	4.6217	195.5	0.0212	98.8
8	8953764	5/18/2015	5/26/2015	2172.02	2364.56	11552.4	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10728.5	4.4482	4.6384	190.2	0.0177	114.6
9	8953755	5/26/2015	6/1/2015	2364.56	2510.54	8758.8	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.5	4.4400	4.5794	139.4	0.0173	86.9
10	8953747	6/1/2015	6/8/2015	2510.54	2678.19	10059	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9254.6	4.4148	4.6188	204.0	0.0220	99.8
11	8953739	6/8/2015	6/15/2015	2678.19	2845.06	10012.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9197.9	4.4612	4.5359	74.7	0.0081	99.3
12	8953731	6/15/2015	6/22/2015	2845.06	3011.71	9999	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9115.1	4.4361	4.6693	233.2	0.0256	99.2
13	8953724	6/22/2015	6/29/2015	3011.71	3182.55	10250.4	5.0	4.0	4.5	25.5	298.7	622.55	1.18	0.97	34.10	9898.3	4.4452	4.7546	309.4	0.0313	101.7
					Totals	130912.8							14.36	12.11	427.66	121966.9	57.507	60.381	2874.0	0.3066	
					Averages	10070.2	4.1	4.0	4.1	14.5	287.6	618.54846	1.10	0.93	32.90	9382.1	4.424	4.645	221.1	0.0236	99.9

Comments:

Insert weekly flow check values in yellow columns.

[redacted]

BHV-8

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2013
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2014
Updated: 7/30/14

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time		ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)		Ta Wkly. Avg. Temp. (°C)		Pa Wkly. Avg. Pressure (mmHg)									
1	8970318	3/30/2015	4/6/2015	1466.51	1634.74	10093.8	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9393.0	4.4160	4.7430	327.0	0.0348	100.1
2	8970311	4/6/2015	4/13/2015	1634.74	1802.61	10072.2	4.5	4.0	4.3	10.2	283.3	616.96	1.12	0.96	33.88	9663.4	4.4029	4.5982	195.3	0.0202	99.9
3	8970302	4/13/2015	4/20/2015	1802.61	1969.92	10038.6	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9405.4	4.3971	4.5681	171.0	0.0182	99.6
4	8970301	4/20/2015	4/27/2015	1969.92	2137.15	10033.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9307.3	4.3847	4.5166	131.9	0.0142	99.5
5	8953786	4/27/2015	5/4/2015	2137.15	2306.02	10132.2	5.0	4.0	4.5	10.7	283.9	615.95	1.16	0.99	34.80	9983.9	4.4347	4.5347	100.0	0.0100	100.5
6	8953785	5/4/2015	5/11/2015	2306.02	2474.38	10101.6	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9434.1	4.4170	4.5599	142.9	0.0151	100.2
7	8953776	5/11/2015	5/18/2015	2474.38	2640.33	9957	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9240.5	4.4385	4.5829	144.4	0.0156	98.8
8	8953763	5/18/2015	5/26/2015	2640.33	2832.85	11551.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10727.3	4.4597	4.5968	137.1	0.0128	114.6
9	8953754	5/26/2015	6/1/2015	2832.85	2978.82	8758.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.0	4.4155	4.4928	77.3	0.0096	86.9
10	8953746	6/1/2015	6/8/2015	2978.82	3146.49	10060.2	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9255.7	4.4007	4.5362	135.5	0.0146	99.8
11	8953738	6/8/2015	6/15/2015	3146.49	3313.47	10018.8	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9204.0	4.4568	4.5159	59.1	0.0064	99.4
12	8953730	6/15/2015	6/22/2015	3313.47	3479.88	9984.6	3.0	4.0	3.5	23.7	296.9	620.01	1.04	0.85	30.13	8517.6	4.4418	4.5666	124.8	0.0147	99.1
13	8953723	6/22/2015	6/29/2015	3479.88	3650.85	10258.2	3.0	3.0	3.0	25.5	298.7	622.55	0.97	0.79	27.88	8098.0	4.4351	4.5415	106.4	0.0131	101.8
					Totals	131060.4							14.14	11.93	421.41	120299.0	57.501	59.353	1852.7	0.1994	
					Averages	10081.6	4.0	3.9	3.9	14.5	287.6	618.54846	1.09	0.92	32.42	9253.8	4.423	4.566	142.5	0.0153	100.0

Comments:

Insert weekly flow check values in yellow columns.

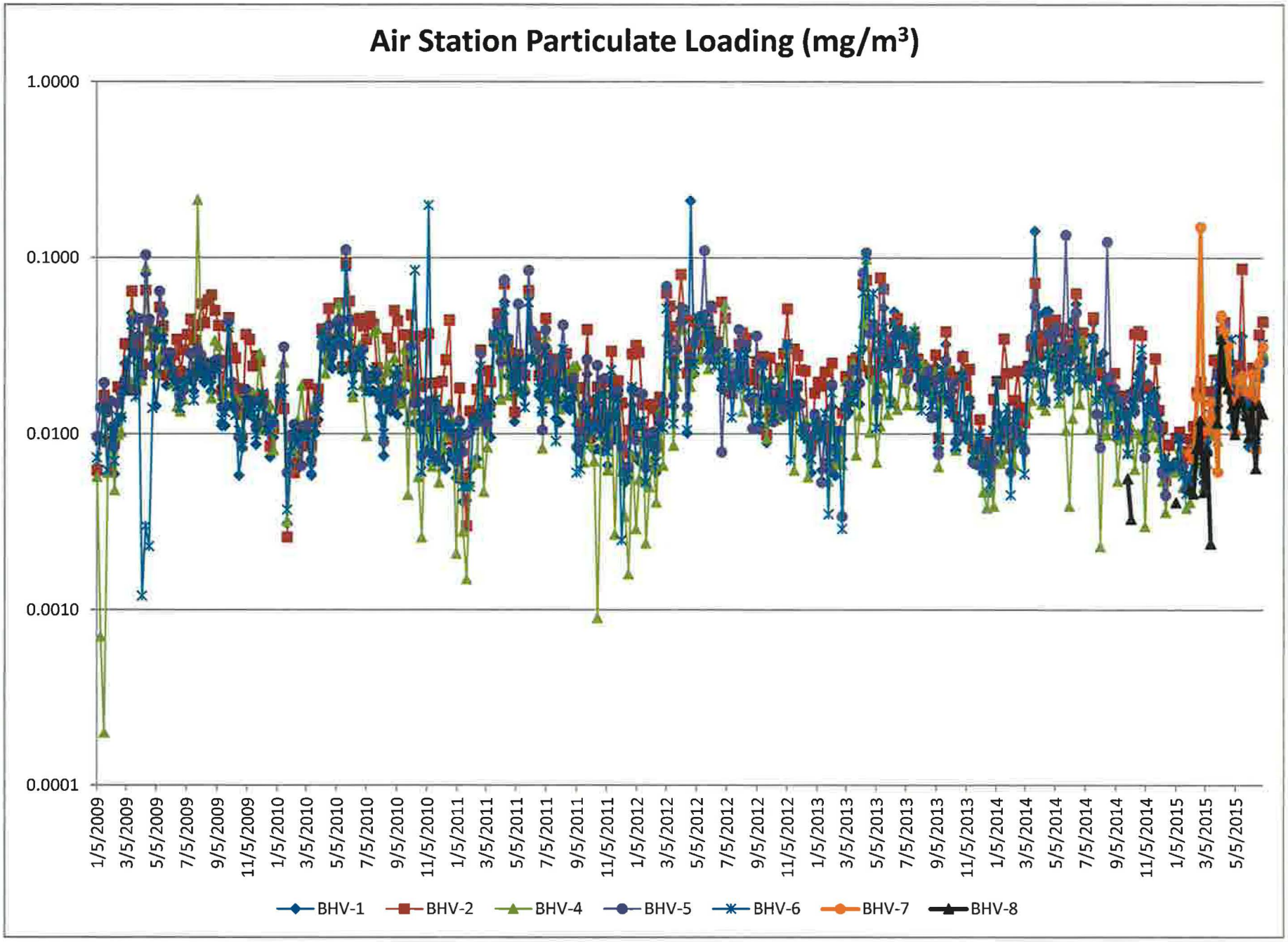
[redacted]

Blanks

Week #	Filter Number	Start Date	Stop Date	Net
		Period: March 30th, 2015- June 29th, 2015		
1	8970310	30-Mar-15	06-Apr-15	4.3778
2	8970309	06-Apr-15	13-Apr-15	4.3834
3	8953794	13-Apr-15	20-Apr-15	4.4264
4	8953793	20-Apr-15	27-Apr-15	4.4088
5	8953778	27-Apr-15	04-Mar-15	4.4245
6	8953777	04-May-15	11-May-15	4.4168
7	8953762	11-May-15	18-May-15	4.4337
8	8953761	18-May-15	26-May-15	4.4474
9	8953753	26-May-15	01-Jun-15	4.4297
10	8953745	01-Jun-15	08-Jun-15	4.4259
11	8953737	08-Jun-15	15-Jun-15	4.4486
12	8953722	15-Jun-15	22-Jun-15	4.4106
13	8953701	22-Jun-15	29-Jun-15	4.4266
	Totals			4.4200

ATTACHMENT D

AIR PARTICULATE LOADING GRAPHS AND SUPPORTING DATA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5/5/2010
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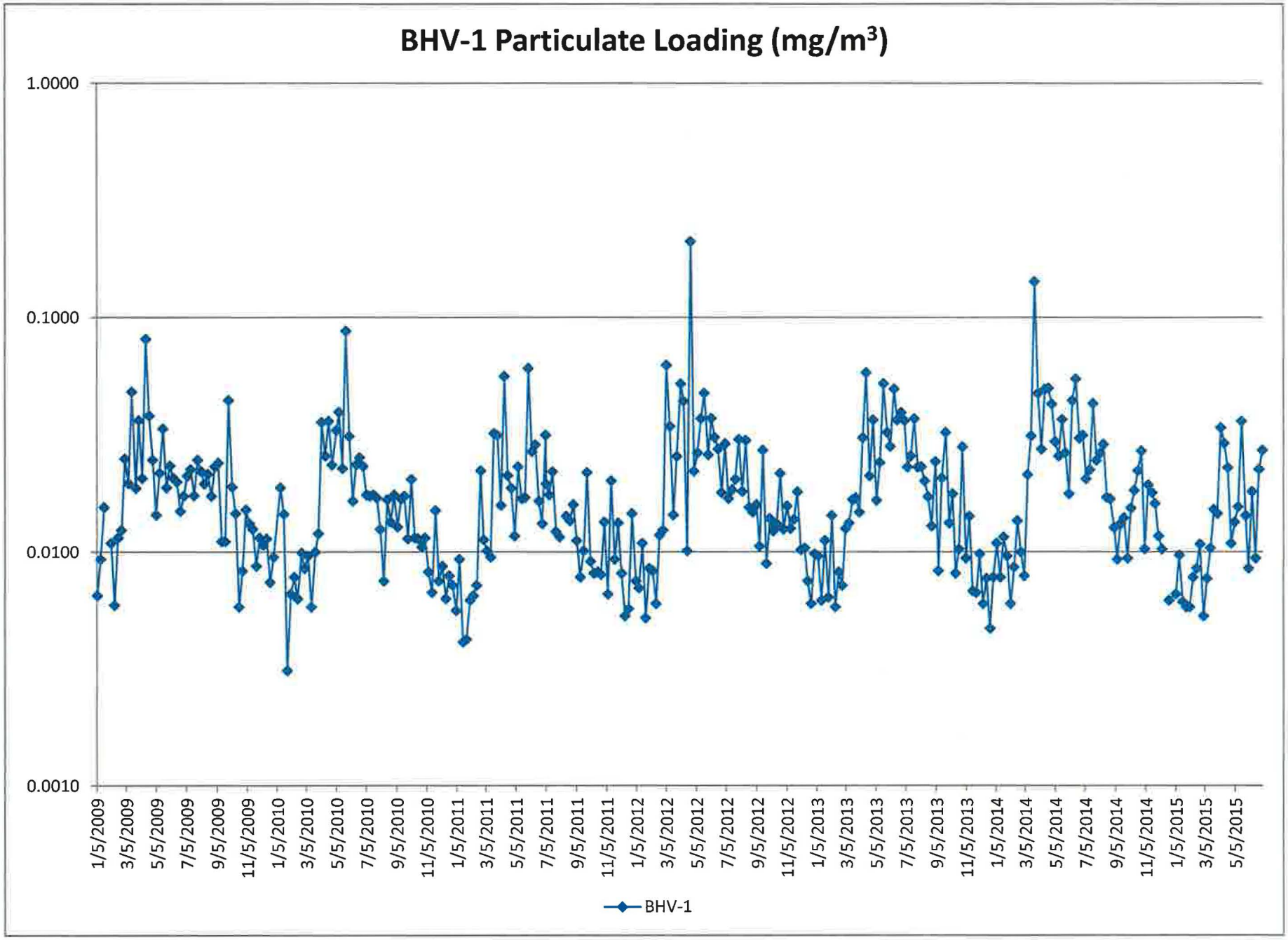
BHV-2
BHV-4
BHV-5
BHV-6
BHV-7
BHV-8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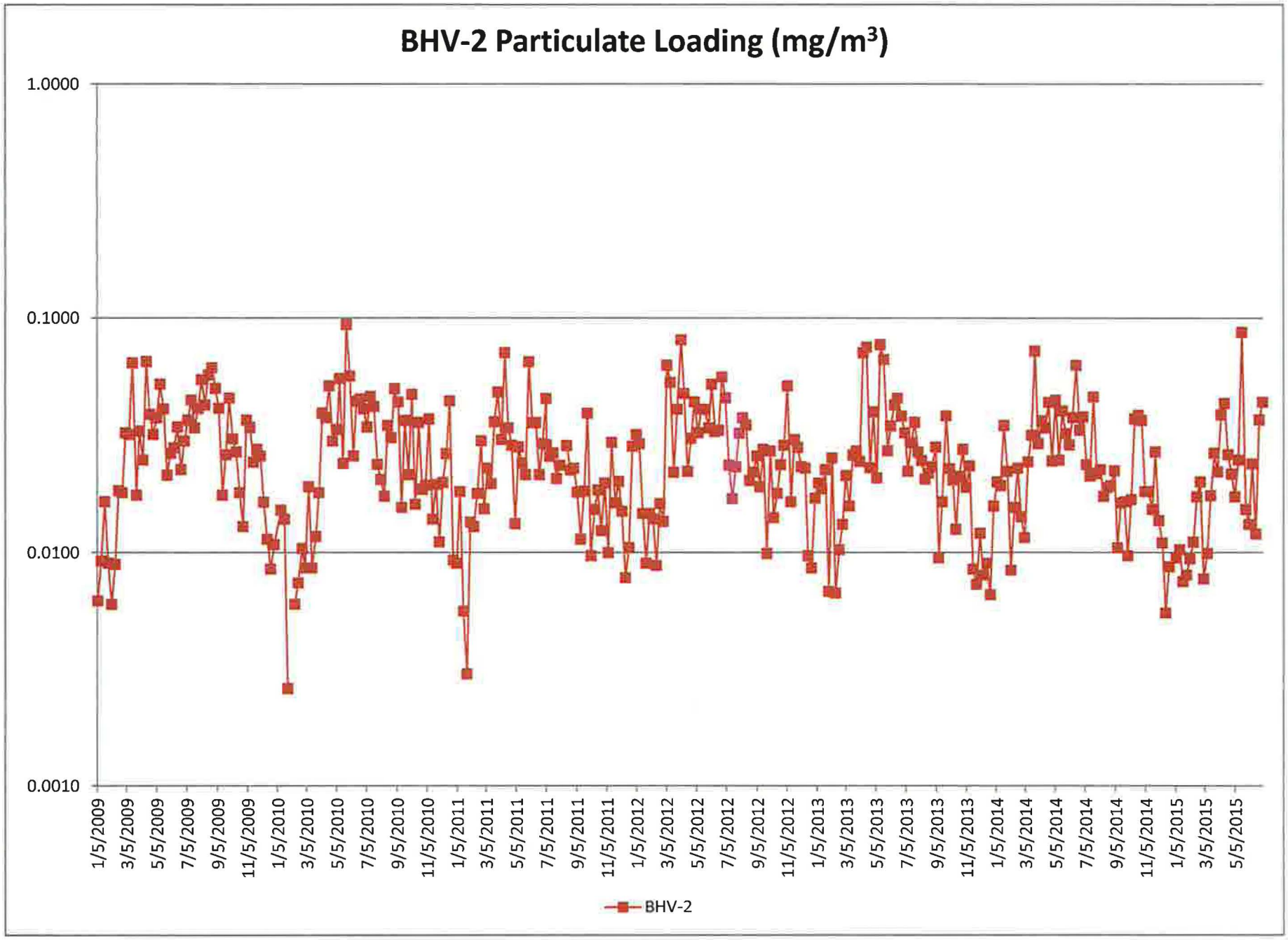
BHV-1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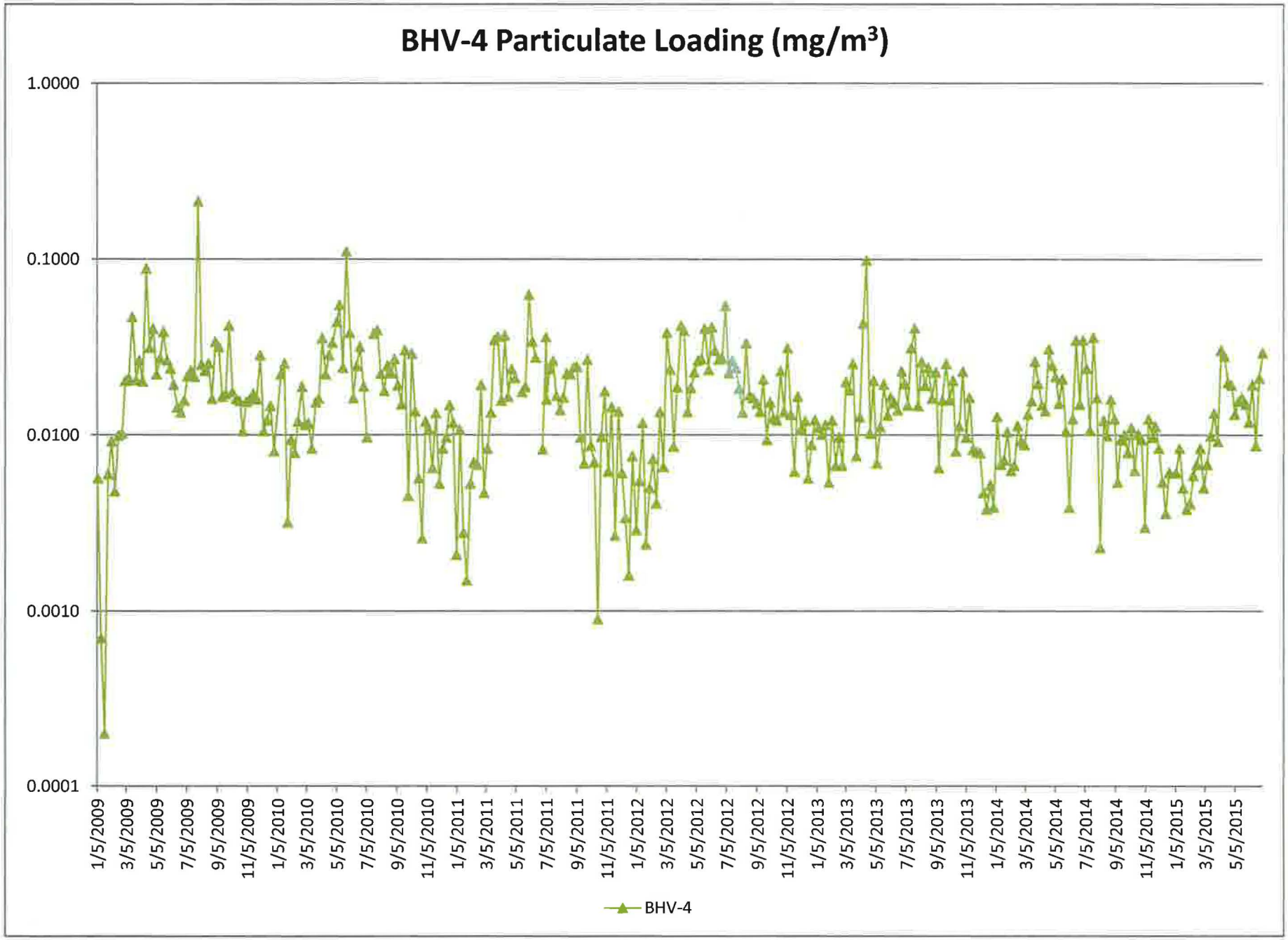
BHV-2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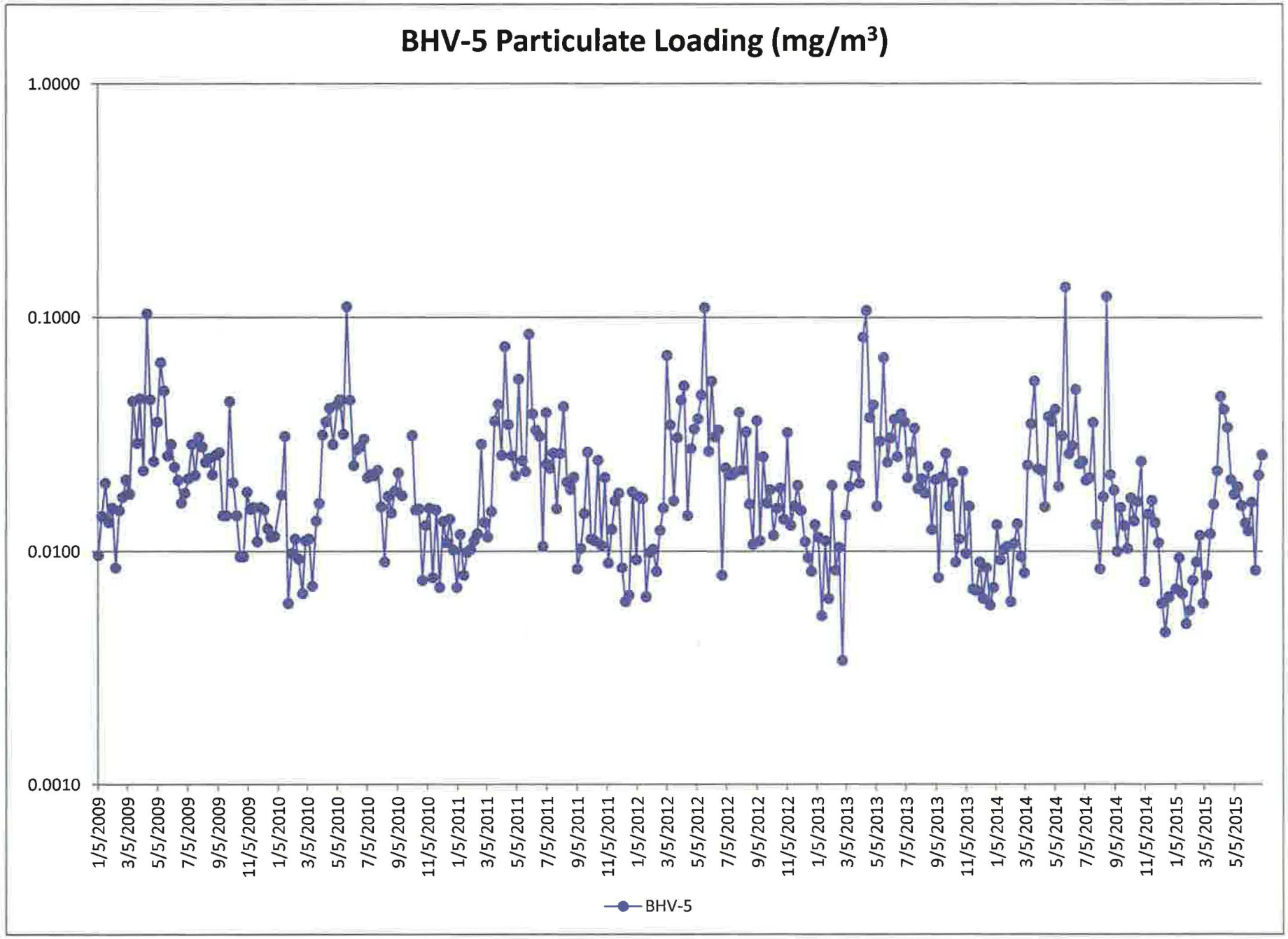
BHV-4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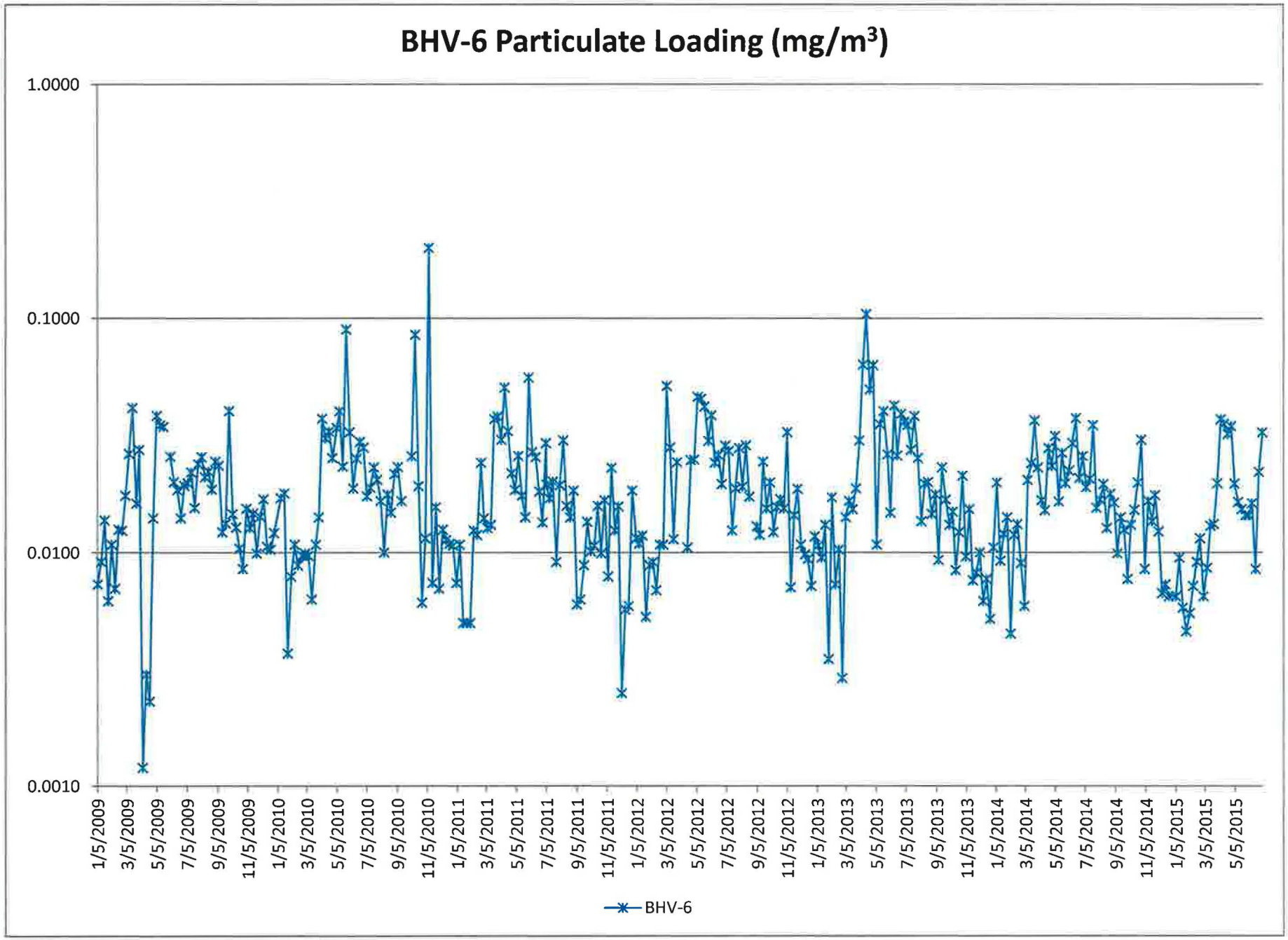
BHV-5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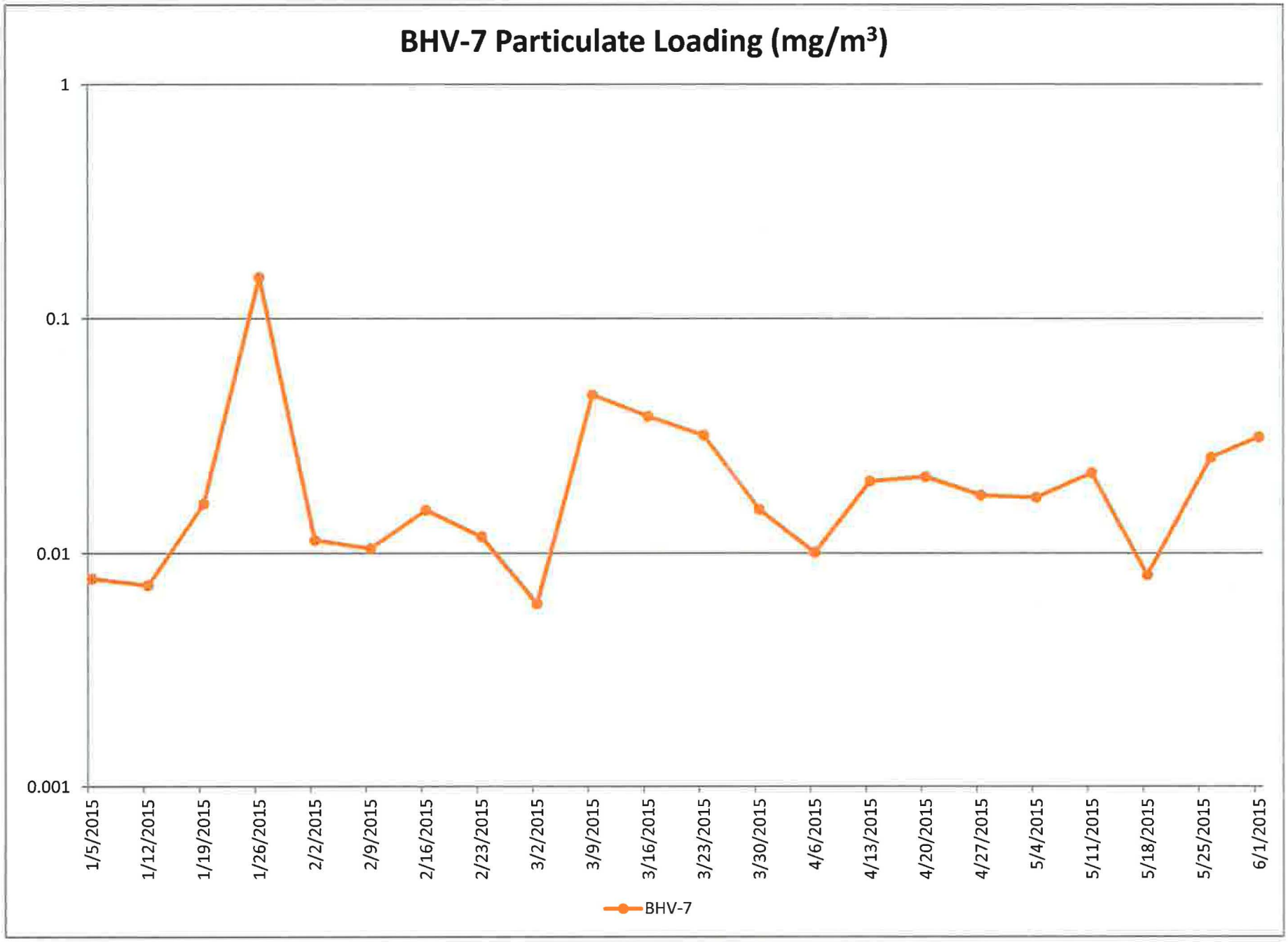
BHV-6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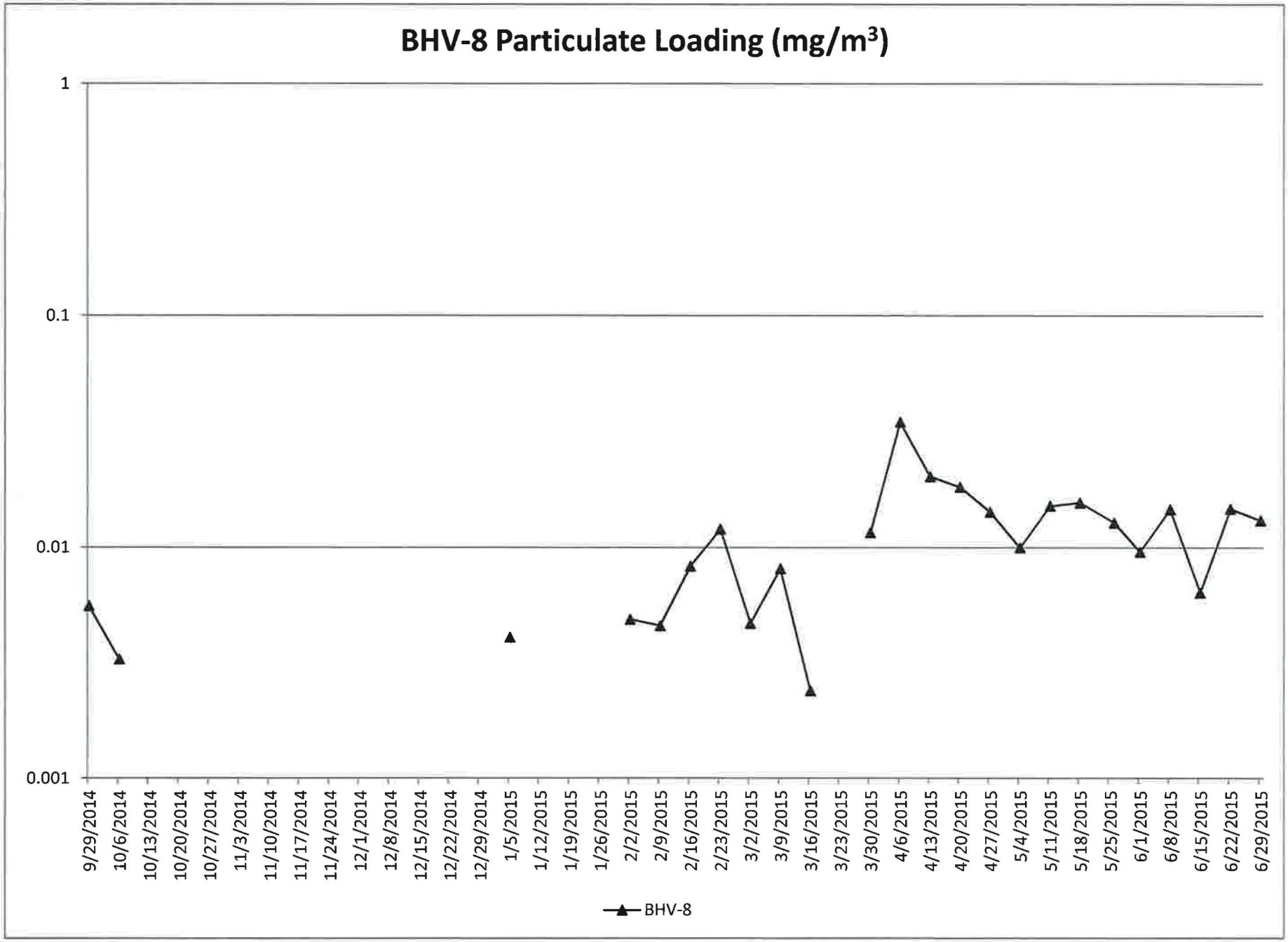
BHV-7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BHV-8

BHV-1

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953417	12/29/2014	1/5/2015	60953.59	61123.36	10186.2	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9796.4	4.4504	4.5155	65.1	0.0066	101.1
2	8953415	1/5/2015	1/12/2015	61123.36	61288.85	9929.4	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9451.5	4.4582	4.5496	91.4	0.0097	98.5
3	8953402	1/12/2015	1/19/2015	61288.85	61458.58	10183.8	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9696.6	4.4580	4.5169	58.9	0.0061	101.0
4	8953401	1/19/2015	1/26/2015	61458.58	61625.66	10024.8	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9524.8	4.4547	4.5098	55.1	0.0058	99.5
5	8970392	1/26/2015	2/2/2015	61625.66	61797.52	10311.6	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9745.4	4.4042	4.4609	56.7	0.0058	102.3
6	8970383	2/2/2015	2/9/2015	61797.52	61961.39	9832.2	4.0	3.8	3.9	5.8	278.9	622.30	1.06	0.93	32.76	9120.8	4.3933	4.4641	70.8	0.0078	97.5
7	8970380	2/9/2015	2/16/2015	61961.39	62129.01	10057.2	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9430.6	4.4121	4.4918	79.7	0.0085	99.8
8	8970367	2/16/2015	2/23/2015	62129.01	62301.02	10320.6	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9742.4	4.4078	4.5134	105.6	0.0108	102.4
9	8970364	2/23/2015	3/2/2015	62301.02	62466.37	9921	3.5	4.0	3.8	-1.0	272.2	616.71	1.04	0.92	32.48	9125.0	4.3937	4.4423	48.6	0.0053	98.4
10	8970356	3/2/2015	3/9/2015	62466.37	62631.34	9898.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9388.9	4.4591	4.5310	71.9	0.0077	98.2
11	8970342	3/9/2015	3/16/2015	62631.34	62798.8	10047.6	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9414.1	4.4439	4.5419	98.0	0.0104	99.7
12	8970341	3/16/2015	3/23/2015	62798.8	62971.14	10340.4	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9629.4	4.4490	4.5951	146.1	0.0152	102.6
13	8970326	3/23/2015	3/30/2015	62971.14	63135.1	9837.6	3.5	4.0	3.8	11.9	285.0	621.28	1.06	0.90	31.86	8874.1	4.3948	4.5241	129.3	0.0146	97.6
					Totals	130890.6							13.88	12.21	431.16	122940.0	57.579	58.656	1077.2	0.1142	
					Averages	10068.5	3.9	4.0	4.0	3.8	277.0	620.98692	1.07	0.94	33.17	9456.9	4.429	4.512	82.9	0.0088	99.9

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-1

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970324	3/30/2015	4/6/2015	63135.1	63303.39	10097.4	4.0	4.0	4.0	10.9	284.0	618.0	1.09	0.93	32.86	9396.3	4.3761	4.6944	318.3	0.0339	100.2
2	8970317	4/6/2015	4/13/2015	63303.39	63472.11	10123.2	4.0	4.0	4.0	10.2	283.3	617.0	1.09	0.93	32.88	9424.0	4.3931	4.6669	273.8	0.0291	100.4
3	8970308	4/13/2015	4/20/2015	63472.11	63639.35	10034.4	4.0	4.0	4.0	7.1	280.2	618.0	1.08	0.94	33.09	9401.5	4.3406	4.5561	215.5	0.0229	99.5
4	8953795	4/20/2015	4/27/2015	63639.35	63806.59	10034.4	4.0	4.0	4.0	11.3	284.4	614.9	1.09	0.93	32.76	9307.9	4.5014	4.6027	101.3	0.0109	99.5
5	8953792	4/27/2015	5/4/2015	63806.59	63975.59	10140.0	4.0	4.0	4.0	10.7	283.9	616.0	1.09	0.93	32.82	9423.3	4.4150	4.5410	126.0	0.0134	100.6
6	8953779	5/4/2015	5/11/2015	63975.59	64021.67	2764.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	2582.1	4.4307	4.4709	40.2	0.0156	27.4
7	8953770	5/11/2015	5/18/2015	64021.67	64187.73	9963.6	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9246.6	4.2405	4.5742	333.7	0.0361	98.8
8	8953769	5/18/2015	5/26/2015	64187.73	64380.15	11545.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10721.8	4.4353	4.5885	153.2	0.0143	114.5
9	8953760	5/26/2015	6/1/2015	64380.15	64526.22	8764.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8074.5	4.4462	4.5147	68.5	0.0085	86.9
10	8953751	6/1/2015	6/8/2015	64526.22	64693.76	10052.4	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9248.5	4.4291	4.5969	167.8	0.0181	99.7
11	8953744	6/8/2015	6/15/2015	64696.76	64861.4	9878.4	4.0	4.0	4.0	18.4	291.6	618.49	1.10	0.92	32.44	9075.5	4.4170	4.5026	85.6	0.0094	98.0
12	8953736	6/15/2015	6/22/2015	64861.4	65027.5	9966.0	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9085.0	4.4399	4.6447	204.8	0.0225	98.9
13	8953729	6/22/2015	6/29/2015	65027.5	65198.65	10269.0	4.0	4.0	4.0	25.5	298.7	622.55	1.11	0.91	32.16	9352.2	4.4303	4.6850	254.7	0.0272	101.9
					Totals	123633.0							14.26	12.03	424.78	114339.2	57.295	59.639	2343.4	0.2619	
					Averages	9510.2	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.68	8795.3	4.407	4.588	180.3	0.0201	94.3

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-2

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953418	12/29/2014	1/5/2015	71442.67	71609.1	9985.8	4.5	4.0	4.3	-6.5	266.7	619.50	1.09	0.99	35.00	9897.4	4.4580	4.5522	94.2	0.0095	99.1
2	8953414	1/5/2015	1/12/2015	71609.1	71775.61	9990.6	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9509.7	4.4659	4.5637	97.8	0.0103	99.1
3	8953403	1/12/2015	1/19/2015	71775.61	71946.03	10225.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9736.0	4.4561	4.5288	72.7	0.0075	101.4
4	8970400	1/19/2015	1/26/2015	71946.03	72112.84	10008.6	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9509.4	4.4137	4.4894	75.7	0.0080	99.3
5	8970391	1/26/2015	2/2/2015	72112.84	72284.62	10306.8	3.0	4.0	3.5	3.9	277.0	621.53	1.01	0.88	31.23	9115.5	4.4098	4.4959	86.1	0.0094	102.2
6	8970384	2/2/2015	2/9/2015	72284.62	72449.97	9921	4.0	4.0	4.0	5.8	279.0	622.30	1.08	0.94	33.28	9349.0	4.3965	4.5007	104.2	0.0111	98.4
7	8970379	2/9/2015	2/16/2015	72449.97	72616.48	9990.6	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9368.2	4.4069	4.5693	162.4	0.0173	99.1
8	8970368	2/16/2015	2/23/2015	72616.48	72788.34	10311.6	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9734.0	4.4069	4.6016	194.7	0.0200	102.3
9	8970363	2/23/2015	3/2/2015	72788.34	72953.69	9921	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9422.4	4.3943	4.4671	72.8	0.0077	98.4
10	8970355	3/2/2015	3/9/2015	72953.69	73119.19	9930	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9419.1	4.4444	4.5378	93.4	0.0099	98.5
11	8970343	3/9/2015	3/16/2015	73119.19	73286.73	10052.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9418.6	4.4501	4.6152	165.1	0.0175	99.7
12	8970340	3/16/2015	3/23/2015	73286.73	73458.73	10320	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9610.4	4.4683	4.7229	254.6	0.0265	102.4
13	8970327	3/23/2015	3/30/2015	73458.73	73623.18	9867	4.5	4.0	4.3	11.9	285.0	619.76	1.12	0.96	33.86	9460.3	4.3895	4.5985	209.0	0.0221	97.9
					Totals	130830.6							13.97	12.28	433.63	123550.0	57.560	59.243	1682.7	0.1769	
					Averages	10063.9	4.0	4.0	4.0	3.8	277.0	620.87	1.07	0.94	33.36	9503.8	4.428	4.557	129.4	0.0136	99.8

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange column.

BHV-2

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970323	3/30/2015	4/6/2015	73623.18	73790.43	10035	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9338.2	4.3872	4.7489	361.7	0.0387	99.6
2	8970316	4/6/2015	4/13/2015	73790.43	73960.07	10178.4	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9475.4	4.3994	4.8104	411.0	0.0434	101.0
3	8970307	4/13/2015	4/20/2015	73960.07	74127.2	10027.8	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9395.3	4.3770	4.6235	246.5	0.0262	99.5
4	8953796	4/20/2015	4/27/2015	74127.2	74294.48	10036.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9310.1	4.4279	4.6288	200.9	0.0216	99.6
5	8953791	4/27/2015	5/4/2015	74294.48	74462.6	10087.2	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9374.3	4.4335	4.5953	161.8	0.0173	100.1
6	8953780	5/4/2015	5/11/2015	74462.6	74631.47	10132.2	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9462.6	4.4489	4.6837	234.8	0.0248	100.5
7	8953771	5/11/2015	5/18/2015	74631.68	74797.73	9963	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9246.0	4.4287	5.2341	805.4	0.0871	98.8
8	8953768	5/18/2015	5/26/2015	74797.73	74990.27	11552.4	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10728.5	4.4176	4.5820	164.4	0.0153	114.6
9	8953759	5/26/2015	6/1/2015	74990.27	75134.68	8664.6	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	7982.7	4.4460	4.5513	105.3	0.0132	86.0
10	8953752	6/1/2015	6/8/2015	75134.68	75303.78	10146	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9334.6	4.4265	4.6494	222.9	0.0239	100.7
11	8953743	6/8/2015	6/15/2015	75303.78	75474.25	10228.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9396.3	4.4373	4.5504	113.1	0.0120	101.5
12	8953735	6/15/2015	6/22/2015	75470.25	75636.83	9994.8	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9111.3	4.4461	4.7825	336.4	0.0369	99.2
13	8953728	6/22/2015	6/29/2015	75636.83	75807.62	10247.4	4.5	4.0	4.3	25.5	298.7	622.55	1.15	0.94	33.15	9618.1	4.4356	4.8572	421.6	0.0438	101.7
					Totals	131293.8							14.30	12.06	425.76	121773.5	57.512	61.298	3785.8	0.4043	
					Averages	10099.5	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.75	9367.2	4.424	4.715	291.2	0.0311	100.2

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-4

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ts Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953419	12/29/2014	1/5/2015	46629.41	46795.09	9940.8	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9560.4	4.4726	4.5308	58.2	0.0061	98.6
2	8953413	1/5/2015	1/12/2015	46795.09	46961.84	10005	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9523.4	4.4652	4.5450	79.8	0.0084	99.3
3	8953404	1/12/2015	1/19/2015	46961.84	47129.86	10081.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9598.9	4.4645	4.5123	47.8	0.0050	100.0
4	8970399	1/19/2015	1/26/2015	47129.86	47302.27	10344.6	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9828.7	4.3981	4.4352	37.1	0.0038	102.6
5	8970390	1/26/2015	2/2/2015	47302.27	47470.66	10103.4	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9548.6	4.4147	4.4543	39.6	0.0041	100.2
6	8970385	2/2/2015	2/9/2015	47470.6	47635.05	9867	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9298.7	4.4149	4.4697	54.8	0.0059	97.9
7	8970378	2/9/2015	2/16/2015	47635.05	47802.1	10023	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9398.6	4.4135	4.4778	64.3	0.0068	99.4
8	8970369	2/16/2015	2/23/2015	47802.1	47975.43	10399.8	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9817.2	4.3920	4.4748	82.8	0.0084	103.2
9	8970362	2/23/2015	3/2/2015	47975.43	48140.9	9928.2	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9429.3	4.4282	4.4758	47.6	0.0050	98.5
10	8970354	3/2/2015	3/9/2015	48140.9	48303.54	9758.4	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9256.3	4.4779	4.5405	62.6	0.0068	96.8
11	8970344	3/9/2016	3/16/2015	48303.54	48471.07	10051.8	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9418.0	4.4460	4.5393	93.3	0.0099	99.7
12	8970339	3/16/2015	3/23/2015	48471.07	48643.37	10338	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9627.1	4.4595	4.5875	128.0	0.0133	102.6
13	8970328	3/23/2015	3/30/2015	48643.37	48807.22	9831	3.5	4.0	3.8	11.9	285.0	619.76	1.06	0.90	31.82	8857.3	4.4299	4.5114	81.5	0.0092	97.5
					Totals	130672.2							13.94	12.25	432.70	123162.4	57.677	58.554	877.4	0.0928	
					Averages	10051.7	4.0	4.0	4.0	3.8	277.0	620.87	1.07	0.94	33.28	9474.0	4.437	4.504	67.5	0.0071	99.7

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-4

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970322	3/30/2015	4/6/2015	48807.22	48975.68	10107.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9405.8	4.4033	4.6879	284.6	0.0303	100.3
2	8970315	4/6/2015	4/13/2015	48975.68	49144.06	10102.8	3.5	4.0	3.8	10.2	283.3	616.96	1.06	0.90	31.84	9108.1	4.3719	4.6277	255.8	0.0281	100.2
3	8970306	4/13/2015	4/20/2015	49144.06	49311.54	10048.8	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9415.0	4.3504	4.5369	186.5	0.0198	99.7
4	8953797	4/20/2015	4/27/2015	49311.54	49478.82	10036.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9310.1	4.4319	4.6108	178.9	0.0192	99.6
5	8953790	4/27/2015	5/4/2015	49478.82	49646.97	10089	3.5	4.0	3.8	10.7	283.9	615.95	1.06	0.90	31.78	9080.0	4.4124	4.5313	118.9	0.0131	100.1
6	8953781	5/4/2015	5/11/2015	49646.97	49816.05	10144.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9474.4	4.4199	4.5665	146.6	0.0155	100.6
7	8953772	5/11/2015	5/18/2015	49816.05	49982.89	10010.4	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9290.0	4.4353	4.5865	151.2	0.0163	99.3
8	8953767	5/18/2015	5/26/2015	49982.89	50174.51	11497.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10677.2	4.4282	4.5868	158.6	0.0149	114.1
9	8953758	5/26/2015	6/1/2015	50174.51	50320.48	8758.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.0	4.4377	4.5333	95.6	0.0118	86.9
10	8953750	6/1/2015	6/8/2015	50320.48	50488.01	10051.8	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9247.9	4.4291	4.6079	178.8	0.0193	99.7
11	8953742	6/8/2015	6/15/2015	50488.01	50656.58	10114.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9291.6	4.4384	4.5189	80.5	0.0087	100.3
12	8953734	6/15/2015	6/22/2015	50656.58	50822.55	9958.2	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9077.9	4.4671	4.6584	191.3	0.0211	98.8
13	8953727	6/22/2015	6/29/2015	50822.55	50996.24	10421.4	4.0	4.0	4.0	25.5	298.7	622.55	1.11	0.91	32.16	9491.0	4.4494	4.7288	279.4	0.0294	103.4
					Totals	131341.2							14.19	11.97	422.71	120938.1	57.475	59.782	2306.7	0.2474	
					Averages	10103.2	3.9	4.0	4.0	14.5	287.6	618.54846	1.09	0.92	32.52	9302.9	4.421	4.599	177.4	0.0190	100.2

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-5

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953420	12/29/2014	1/5/2015	70154.68	70320.03	9921	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9541.3	4.4644	4.5299	65.5	0.0069	98.4
2	8953412	1/5/2015	1/12/2015	70320.03	70487.13	10026	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9543.4	4.4547	4.5446	89.9	0.0094	99.5
3	8953405	1/12/2015	1/19/2015	70487.13	70655.15	10081.2	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9598.9	4.4602	4.5240	63.8	0.0066	100.0
4	8970398	1/19/2015	1/26/2015	70655.15	70827.62	10348.2	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9832.1	4.3970	4.4454	48.4	0.0049	102.7
5	8970389	1/26/2015	2/2/2015	70827.62	70996.04	10105.2	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9550.3	4.4103	4.4640	53.7	0.0056	100.2
6	8970386	2/2/2015	2/9/2015	70996.04	71160.58	9872.4	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9303.7	4.4168	4.4864	69.6	0.0075	97.9
7	8970377	2/9/2015	2/16/2015	71160.58	71327.17	9995.4	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9372.7	4.4012	4.4860	84.8	0.0090	99.2
8	8970370	2/16/2015	2/23/2015	71327.17	71500.89	10423.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9839.3	4.3921	4.5070	114.9	0.0117	103.4
9	8970361	2/23/2015	3/2/2015	71500.89	71665.93	9902.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9404.8	4.4539	4.5107	56.8	0.0060	98.2
10	8970353	3/2/2015	3/9/2015	71665.93	71828.94	9780.6	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9277.3	4.4488	4.5219	73.1	0.0079	97.0
11	8970345	3/9/2015	3/16/2015	71828.94	71996.08	10028.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9396.1	4.4445	4.5561	111.6	0.0119	99.5
12	8970338	3/16/2015	3/23/2015	71996.08	72168.75	10360.2	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9647.8	4.3807	4.5344	153.7	0.0159	102.8
13	8970329	3/23/2015	3/30/2015	72168.75	72332.18	9805.8	4.0	4.0	4.0	11.9	285.0	621.28	1.09	0.93	32.89	9133.7	4.4027	4.6036	200.9	0.0220	97.3
					Totals	130650.0							13.97	12.28	433.77	123441.5	57.527	58.714	1186.7	0.1254	
					Averages	10050.0	4.0	4.0	4.0	3.8	277.0	620.98692	1.07	0.94	33.37	9495.5	4.425	4.516	91.3	0.0096	99.7

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns

BHV-5

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970321	3/30/2015	4/6/2015	72332.18	72500.74	10113.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9411.4	4.3793	4.8118	432.5	0.0460	100.3
2	8970314	4/6/2015	4/13/2015	72500.74	72669.13	10103.4	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9405.6	4.3814	4.7610	379.6	0.0404	100.2
3	8970305	4/13/2015	4/20/2015	72669.13	72836.62	10049.4	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9415.5	4.3767	4.6949	318.2	0.0338	99.7
4	8953798	4/20/2015	4/27/2015	72836.62	73003.78	10029.6	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9303.4	4.4320	4.6200	188.0	0.0202	99.5
5	8953789	4/27/2015	5/4/2015	73003.78	73172.54	10125.6	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9410.0	4.4113	4.5759	164.6	0.0175	100.5
6	8953782	5/4/2015	5/11/2015	73172.54	73341.13	10115.4	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9447.0	4.4408	4.6188	178.0	0.0188	100.4
7	8953773	5/11/2015	5/18/2015	73341.13	73508.35	10033.2	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9311.2	4.4438	4.5898	146.0	0.0157	99.5
8	8953766	5/18/2015	5/26/2015	73508.35	73699.6	11475	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10656.6	4.4135	4.5540	140.5	0.0132	113.8
9	8953757	5/26/2015	6/1/2015	73699.6	73845.56	8757.6	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8068.4	4.4401	4.5389	98.8	0.0122	86.9
10	8953749	6/1/2015	6/8/2015	73845.56	74013.09	10051.8	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9247.9	4.4082	4.5576	149.4	0.0162	99.7
11	8953741	6/8/2015	6/15/2015	74013.09	74181.64	10113	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9290.5	4.4660	4.5435	77.5	0.0083	100.3
12	8953733	6/15/2015	6/22/2015	74181.64	74347.96	9979.2	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9097.1	4.4356	4.6271	191.5	0.0211	99.0
13	8953726	6/22/2015	6/29/2015	74347.96	74521.91	10437	3.5	4.0	3.8	25.5	298.7	622.55	1.08	0.88	31.15	9205.1	4.4250	4.6622	237.2	0.0258	103.5
					Totals	131383.8							14.23	12.00	423.76	121269.7	57.454	60.156	2701.8	0.2891	
					Averages	10106.4	4.0	4.0	4.0	14.5	287.6	618.54846	1.09	0.92	32.60	9328.4	4.420	4.627	207.8	0.0222	100.3

Comments:

Insert weekly flow check values in yellow columns.
Blue column values are calculated.
Green columns are calculated averages from the met station.
Insert filter weight values into orange columns.

BHV-6

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953421	12/29/2014	1/5/2015	6183.76	6349.48	9943.2	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	9562.7	4.4490	4.5108	61.8	0.0065	98.6
2	8953411	1/5/2015	1/12/2015	6349.48	6516.2	10003.2	4.0	4.0	4.0	1.0	274.1	623.82	1.07	0.95	33.62	9521.7	4.4703	4.5604	90.1	0.0095	99.2
3	8953406	1/12/2015	1/19/2015	6516.2	6684.23	10081.8	4.0	4.0	4.0	0.6	273.7	623.31	1.07	0.95	33.63	9599.5	4.4688	4.5240	55.2	0.0058	100.0
4	8970397	1/19/2015	1/26/2015	6684.23	6856.66	10345.8	4.0	4.0	4.0	1.5	274.7	622.80	1.07	0.95	33.55	9829.8	4.4039	4.4491	45.2	0.0046	102.6
5	8970388	1/26/2015	2/2/2015	6856.66	7025.1	10106.4	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	9551.5	4.4068	4.4594	52.6	0.0055	100.3
6	8970387	2/2/2015	2/9/2015	7025.1	7189.57	9868.2	4.0	3.0	3.5	5.8	278.9	622.30	1.01	0.88	31.14	8702.8	4.4083	4.4713	63.0	0.0072	97.9
7	8970376	2/9/2015	2/16/2015	7189.57	7356.55	10018.8	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9394.6	4.3912	4.4771	85.9	0.0091	99.4
8	8970371	2/16/2015	2/23/2015	7356.55	7529.92	10402.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9819.5	4.4034	4.5160	112.6	0.0115	103.2
9	8970360	2/23/2015	3/2/2015	7529.92	7695.44	9931.2	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9432.1	4.4602	4.5217	61.5	0.0065	98.5
10	8970352	3/2/2015	3/9/2015	7695.44	7858.01	9754.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9252.3	4.4404	4.5200	79.6	0.0086	96.8
11	8970346	3/9/2015	3/16/2015	7858.01	8025.85	10070.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9435.4	4.4513	4.5741	122.8	0.0130	99.9
12	8970335	3/16/2015	3/23/2015	8025.58	8197.87	10337.4	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9626.6	4.3795	4.5064	126.9	0.0132	102.6
13	8970330	3/23/2015	3/30/2015	8197.87	8361.83	9837.6	5.0	4.0	4.5	11.9	285.0	621.28	1.16	0.99	34.88	9715.9	4.3800	4.5720	192.0	0.0198	97.6
					Totals	130700.4							13.97	12.28	433.62	123444.4	57.513	58.662	1149.2	0.1207	
					Averages	10053.9	4.1	3.9	4.0	3.8	277.0	620.98692	1.07	0.94	33.36	9495.7	4.424	4.512	88.4	0.0093	99.7

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-6

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970320	3/30/2015	4/6/2015	8361.83	8530.2	10102.2	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9400.8	4.4025	4.7515	349.0	0.0371	100.2
2	8970313	4/6/2015	4/13/2015	8530.2	8698.66	10107.6	4.0	4.0	4.0	10.2	283.3	616.96	1.09	0.93	32.88	9409.5	4.3818	4.7158	334.0	0.0355	100.3
3	8970304	4/13/2015	4/20/2015	8698.66	8866.08	10045.2	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9411.6	4.3797	4.6821	302.4	0.0321	99.7
4	8953799	4/20/2015	4/27/2015	8899.08	9033.13	8043	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	7460.7	4.4324	4.6915	259.1	0.0347	79.8
5	8953788	4/27/2015	5/4/2015	9033.13	9201.61	10108.8	4.0	4.0	4.0	10.7	283.9	615.95	1.09	0.93	32.82	9394.4	4.4256	4.6110	185.4	0.0197	100.3
6	8953783	5/4/2015	5/11/2015	9201.61	9370.59	10138.8	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9468.8	4.4392	4.5941	154.9	0.0164	100.6
7	8953774	5/11/2015	5/18/2015	9370.59	9537.44	10011	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9290.6	4.4268	4.5694	142.6	0.0153	99.3
8	8953765	5/18/2015	5/26/2015	9537.44	9729.05	11496.6	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10676.6	4.4250	4.5784	153.4	0.0144	114.1
9	8953756	5/26/2015	6/1/2015	9729.05	9875.03	8758.8	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.5	4.4393	4.5555	116.2	0.0144	86.9
10	8953748	6/1/2015	6/8/2015	9875.03	10042.56	10051.8	4.0	4.0	4.0	17.8	290.9	618.99	1.10	0.92	32.50	9249.5	4.4284	4.5783	149.9	0.0162	99.7
11	8953740	6/8/2015	6/15/2015	10042.56	10211.14	10114.8	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9292.2	4.4402	4.5195	79.3	0.0085	100.3
12	8953732	6/15/2015	6/22/2015	10211.14	10377.1	9957.6	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9077.4	4.4314	4.6319	200.5	0.0221	98.8
13	8953725	6/22/2015	6/29/2015	10377.1	10550.87	10426.2	4.5	4.0	4.3	25.5	298.7	622.55	1.15	0.94	33.15	9785.9	4.4225	4.7419	319.4	0.0326	103.4
					Totals	129362.4							14.30	12.06	425.77	119987.4	57.475	60.221	2746.1	0.2992	
					Averages	9951.0	4.0	4.0	4.0	14.5	287.6	618.54846	1.10	0.93	32.75	9229.8	4.421	4.632	211.2	0.0230	98.7

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-7

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953436	1/26/2015	2/2/2015	0	120.35	7221	4.0	4.0	4.0	3.9	277.0	621.53	1.07	0.95	33.38	6824.5	4.4414	4.4947	53.3	0.0078	71.6
2	8970396	2/2/2015	2/9/2015	120.35	147.34	1619.4	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	1526.1	4.4124	4.4236	11.2	0.0073	16.1
3	8970375	2/9/2015	2/16/2015	147.34	291.62	8656.8	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	8117.5	4.4027	4.5350	132.3	0.0163	85.9
4	8970372	2/16/2015	2/23/2015	291.62	322.99	1882.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	1776.8	4.4087	4.6752	266.5	0.1500	18.7
5	8970359	2/23/2015	3/2/2015	322.99	350.48	1649.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	1566.5	4.4536	4.4714	17.8	0.0114	16.4
6	8970351	3/2/2015	3/9/2015	350.48	515.4	9895.2	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9386.0	4.4376	4.5365	98.9	0.0105	98.2
7	8970347	3/9/2015	3/16/2015	515.4	682.86	10047.6	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9414.1	4.4523	4.5967	144.4	0.0153	99.7
8	8970336	3/16/2015	3/23/2015	682.86	855.52	10359.6	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	9647.3	4.4011	4.5149	113.8	0.0118	102.8
9	8970331	3/23/2015	3/30/2015	855.52	1000.67	8709	4.5	4.0	4.3	11.9	285.0	621.28	1.12	0.96	33.90	8360.3	4.3731	4.4239	50.8	0.0061	86.4
10						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
11						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
12						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
13						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
					Totals	60040.2							#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	39.783	40.672	889.0	#DIV/0!	
					Averages	4618.5	4.1	4.0	#DIV/0!	5.9	277.2	620.37778	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.420	4.519	68.4	#DIV/0!	45.8

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-7

Energey Fuels Resources - White Mesa Mill
Period: March 30, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970319	3/30/2015	4/6/2015	1000.67	1169.03	10101.6	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9400.2	4.3767	4.8219	445.2	0.0474	100.2
2	8970312	4/6/2015	4/13/2015	1169.03	1337.19	10089.6	3.5	4.0	3.8	10.2	283.3	616.96	1.06	0.90	31.84	9096.2	4.3659	4.7153	349.4	0.0384	100.1
3	8970303	4/13/2015	4/20/2015	1337.19	1504.56	10042.2	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9408.8	4.3853	4.6850	299.7	0.0319	99.6
4	8953800	4/20/2015	4/27/2015	1504.56	1671.03	9988.2	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9265.0	4.4318	4.5742	142.4	0.0154	99.1
5	8953787	4/27/2015	5/4/2015	1671.03	1838.94	10074.6	5.0	4.0	4.5	10.7	283.9	615.95	1.16	0.99	34.80	9927.1	4.4419	4.5425	100.6	0.0101	99.9
6	8953784	5/4/2015	5/11/2015	1838.94	2006.08	10028.4	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9365.7	4.4335	4.6238	190.3	0.0203	99.5
7	8953775	5/11/2015	5/18/2015	2006.08	2172.02	9956.4	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9239.9	4.4262	4.6217	195.5	0.0212	98.8
8	8953764	5/18/2015	5/26/2015	2172.02	2364.56	11552.4	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10728.5	4.4482	4.6384	190.2	0.0177	114.6
9	8953755	5/26/2015	6/1/2015	2364.56	2510.54	8758.8	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.5	4.4400	4.5794	139.4	0.0173	86.9
10	8953747	6/1/2015	6/8/2015	2510.54	2678.19	10059	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9254.6	4.4148	4.6188	204.0	0.0220	99.8
11	8953739	6/8/2015	6/15/2015	2678.19	2845.06	10012.2	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9197.9	4.4612	4.5359	74.7	0.0081	99.3
12	8953731	6/15/2015	6/22/2015	2845.06	3011.71	9999	4.0	4.0	4.0	23.7	296.9	620.01	1.11	0.91	32.19	9115.1	4.4361	4.6693	233.2	0.0256	99.2
13	8953724	6/22/2015	6/29/2015	3011.71	3182.55	10250.4	5.0	4.0	4.5	25.5	298.7	622.55	1.18	0.97	34.10	9898.3	4.4452	4.7546	309.4	0.0313	101.7
					Totals	130912.8							14.36	12.11	427.66	121966.9	57.507	60.381	2874.0	0.3066	
					Averages	10070.2	4.1	4.0	4.1	14.5	287.6	618.54846	1.10	0.93	32.90	9382.1	4.424	4.645	221.1	0.0236	99.9

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-8

Energey Fuels Resources - White Mesa Mill
Period: December 29th, 2014 - March 30th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

First Monitoring Quarter 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp. (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8953422	12/29/2014	1/5/2015	116.35	172.21	3351.6	4.0	4.0	4.0	-6.5	266.7	619.50	1.06	0.96	33.96	3223.3	4.4530	4.4661	13.1	0.0041	33.3
2	8953407	1/26/2015	2/2/2015	172.21	297.74	7531.8	4.0	3.5	3.8	3.9	277.0	621.53	1.04	0.92	32.32	6893.6	4.4607	4.4946	33.9	0.0049	74.7
3	8970395	2/2/2015	2/9/2015	297.74	462.21	9868.2	4.0	4.0	4.0	5.8	278.9	622.30	1.08	0.94	33.28	9299.8	4.3941	4.4370	42.9	0.0046	97.9
4	8970374	2/9/2015	2/16/2015	462.21	629.68	10048.2	4.0	4.0	4.0	6.6	279.8	617.98	1.08	0.94	33.11	9422.2	4.3984	4.4764	78.0	0.0083	99.7
5	8970373	2/16/2015	2/23/2015	629.68	801.5	10309.2	4.0	4.0	4.0	3.1	276.3	618.49	1.08	0.94	33.34	9731.7	4.4045	4.5215	117.0	0.0120	102.3
6	8970358	2/23/2015	3/2/2015	801.5	967.09	9935.4	4.0	4.0	4.0	-1.0	272.2	616.71	1.07	0.95	33.54	9436.1	4.4459	4.4901	44.2	0.0047	98.6
7	8970350	3/2/2015	3/9/2015	967.09	1131.85	9885.6	4.0	4.0	4.0	2.4	275.6	622.80	1.07	0.95	33.50	9376.9	4.4541	4.5297	75.6	0.0081	98.1
8	8970348	3/9/2015	3/16/2015	1131.85	1299.34	10049.4	4.0	4.0	4.0	9.1	282.3	622.55	1.08	0.94	33.09	9415.7	4.4357	4.4583	22.6	0.0024	99.7
9	8970337	3/16/2015	3/23/2015	1299.34	1303.34	240	4.0	4.0	4.0	11.3	284.4	619.76	1.09	0.93	32.89	223.5	4.3762	4.3747	-1.5	-0.0067	2.4
10	8970332	3/23/2015	3/30/2015	1303.34	1466.51	9790.2	6.0	4.0	5.0	11.9	285.0	621.28	1.22	1.04	36.75	10189.2	4.3662	4.4846	118.4	0.0116	97.1
11						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
12						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
13						0			#DIV/0!		273.2		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			0.0	#DIV/0!	0.0
					Totals	81009.6							#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	44.189	44.733	544.2	#DIV/0!	
					Averages	6231.5	4.2	4.0	#DIV/0!	4.7	276.7	620.29	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.419	4.473	41.9	#DIV/0!	61.8

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

Insert filter weight values into orange columns.

BHV-8

Energey Fuels Resources - White Mesa Mill
Period: March 30th, 2015 - June 29th, 2015

Calibration Date: 7/10/2014
Calibration Slope & Intercept: m= 1.25049 b= -0.0081
Orifice S/N: 8091779

Second Quarter Monitoring 2015
Updated: 7/30/15

Week #	Filter Number	Start Date	Stop Date	Start Time	Stop Time	Total Time (min)	ΔH Starting Manometer (in. H_2O)	ΔH Stopping Manometer (in. H_2O)	ΔH Average Manometer (in. H_2O)	Ta Wkly. Avg. Temp. (°C)	Ta Wkly. Avg. Temp (K)	Pa Wkly. Avg. Pressure (mmHg)	Qa Act. Flow (m^3/min)	Qs Std. Flow (m^3/min)	Qs Std. Flow (SCFM) (ft^3/min)	Total Std. Volume (m^3)	Tare Weight (g)	Gross Weight (g)	Net Weight (mg)	Loading (mg/m^3)	Percent Onstream (%)
1	8970318	3/30/2015	4/6/2015	1466.51	1634.74	10093.8	4.0	4.0	4.0	10.9	284.0	617.98	1.09	0.93	32.86	9393.0	4.4160	4.7430	327.0	0.0348	100.1
2	8970311	4/6/2015	4/13/2015	1634.74	1802.61	10072.2	4.5	4.0	4.3	10.2	283.3	616.96	1.12	0.96	33.88	9663.4	4.4029	4.5982	195.3	0.0202	99.9
3	8970302	4/13/2015	4/20/2015	1802.61	1969.92	10038.6	4.0	4.0	4.0	7.1	280.2	617.98	1.08	0.94	33.09	9405.4	4.3971	4.5681	171.0	0.0182	99.6
4	8970301	4/20/2015	4/27/2015	1969.92	2137.15	10033.8	4.0	4.0	4.0	11.3	284.4	614.93	1.09	0.93	32.76	9307.3	4.3847	4.5166	131.9	0.0142	99.5
5	8953786	4/27/2015	5/4/2015	2137.15	2306.02	10132.2	5.0	4.0	4.5	10.7	283.9	615.95	1.16	0.99	34.80	9983.9	4.4347	4.5347	100.0	0.0100	100.5
6	8953785	5/4/2015	5/11/2015	2306.02	2474.38	10101.6	4.0	4.0	4.0	10.7	283.9	622.04	1.09	0.93	32.98	9434.1	4.4170	4.5599	142.9	0.0151	100.2
7	8953776	5/11/2015	5/18/2015	2474.38	2640.33	9957	4.0	4.0	4.0	12.0	285.1	616.96	1.09	0.93	32.77	9240.5	4.4385	4.5829	144.4	0.0156	98.8
8	8953763	5/18/2015	5/26/2015	2640.33	2832.85	11551.2	4.0	4.0	4.0	11.9	285.1	617.72	1.09	0.93	32.80	10727.3	4.4597	4.5968	137.1	0.0128	114.6
9	8953754	5/26/2015	6/1/2015	2832.85	2978.82	8758.2	4.0	4.0	4.0	17.8	291.0	620.57	1.10	0.92	32.54	8069.0	4.4155	4.4928	77.3	0.0096	86.9
10	8953746	6/1/2015	6/8/2015	2978.82	3146.49	10060.2	4.0	4.0	4.0	17.9	291.0	618.99	1.10	0.92	32.49	9255.7	4.4007	4.5362	135.5	0.0146	99.8
11	8953738	6/8/2015	6/15/2015	3146.49	3313.47	10018.8	4.0	4.0	4.0	18.5	291.6	618.49	1.10	0.92	32.44	9204.0	4.4568	4.5159	59.1	0.0064	99.4
12	8953730	6/15/2015	6/22/2015	3313.47	3479.88	9984.6	3.0	4.0	3.5	23.7	296.9	620.01	1.04	0.85	30.13	8517.6	4.4418	4.5666	124.8	0.0147	99.1
13	8953723	6/22/2015	6/29/2015	3479.88	3650.85	10258.2	3.0	3.0	3.0	25.5	298.7	622.55	0.97	0.79	27.88	8098.0	4.4351	4.5415	106.4	0.0131	101.8
					Totals	131060.4							14.14	11.93	421.41	120299.0	57.501	59.353	1852.7	0.1994	
					Averages	10081.6	4.0	3.9	3.9	14.5	287.6	618.54846	1.09	0.92	32.42	9253.8	4.423	4.566	142.5	0.0153	100.0

Comments:

Insert weekly flow check values in yellow columns.

Blue column values are calculated.

Green columns are calculated averages from the met station.

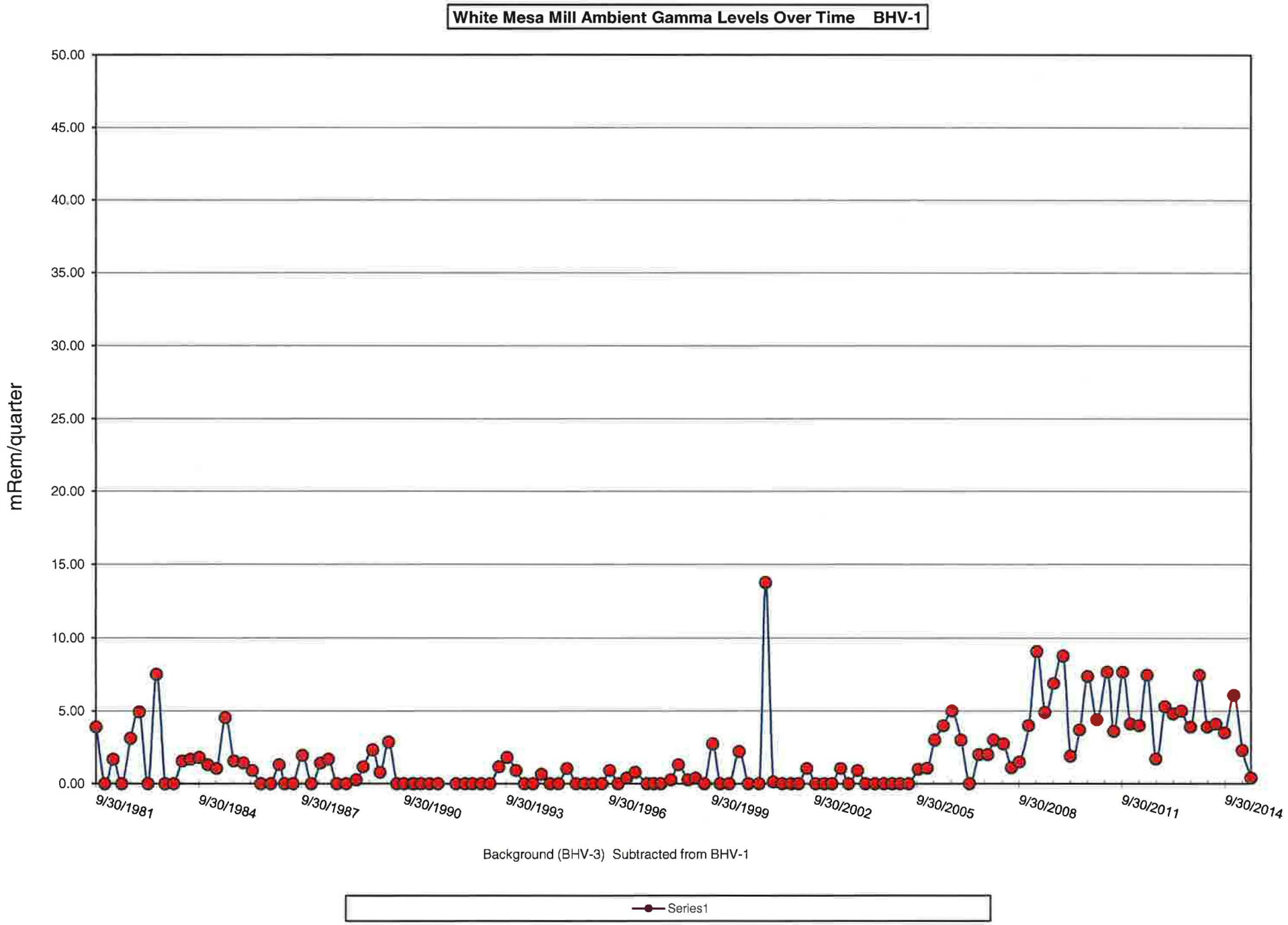
Insert filter weight values into orange columns.

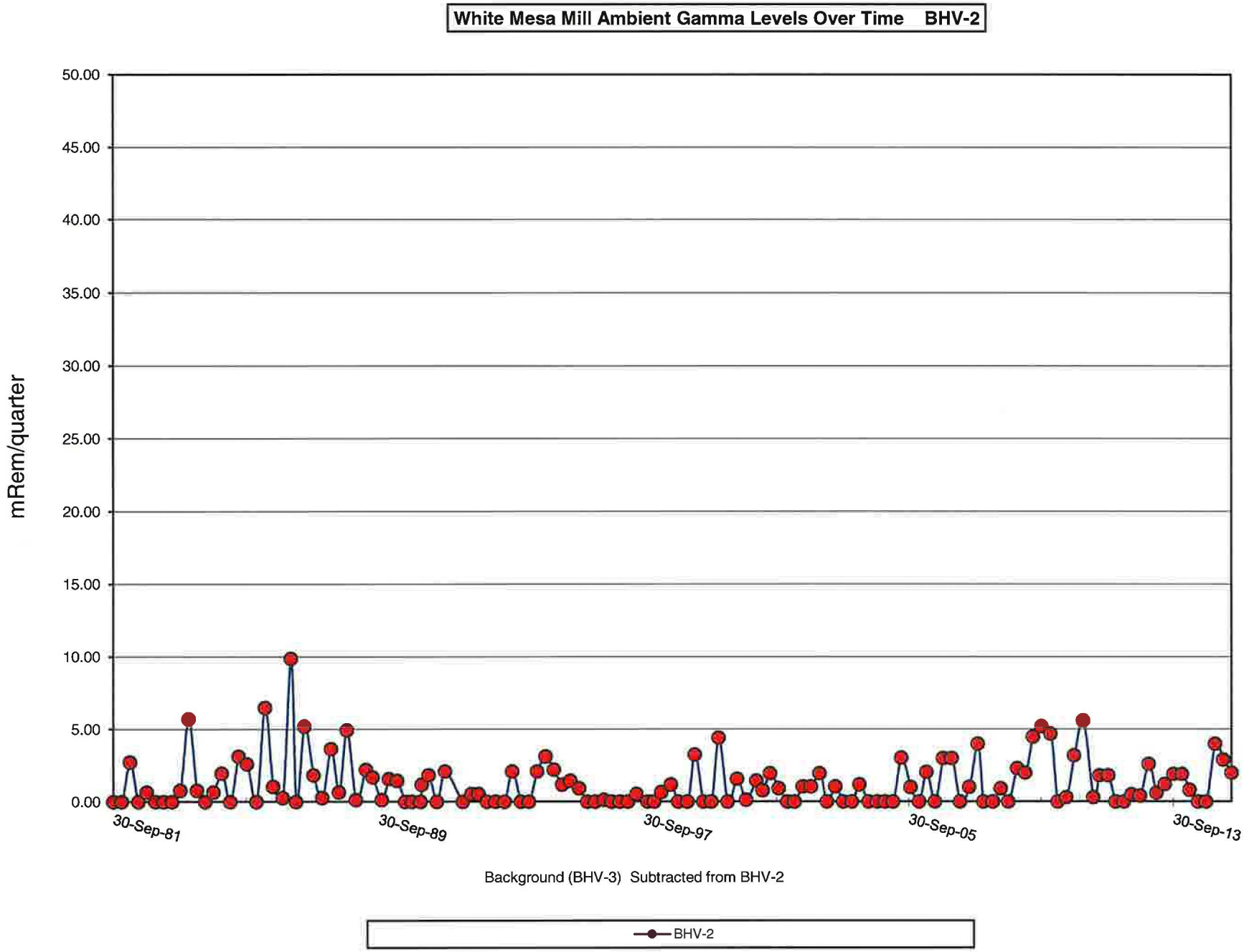
Blanks		Period: December 29th, 2014-March 30th, 2015		
Week #	Filter Number	Start Date	Stop Date	Net
1	8953409	29-Dec-14	05-Jan-15	4.4656
2	8953408	05-Jan-15	12-Jan-15	4.4653
3	8970394	12-Jan-15	19-Jan-15	4.3745
4	8970393	19-Jan-15	26-Jan-15	4.4027
5	8970382	26-Jan-15	02-Feb-15	4.4207
6	8970381	02-Feb-15	09-Feb-15	4.4209
7	8970366	09-Feb-15	16-Feb-15	4.3908
8	8970365	16-Feb-15	23-Feb-15	4.4159
9	8970357	23-Feb-15	02-Mar-15	4.4509
10	8970349	02-Mar-15	09-Mar-15	4.4323
11	8970334	09-Mar-15	16-Mar-15	4.3708
12	8970333	16-Mar-15	23-Mar-15	4.3386
13	8970325	23-Mar-15	30-Mar-15	4.3908
	Totals			4.4108

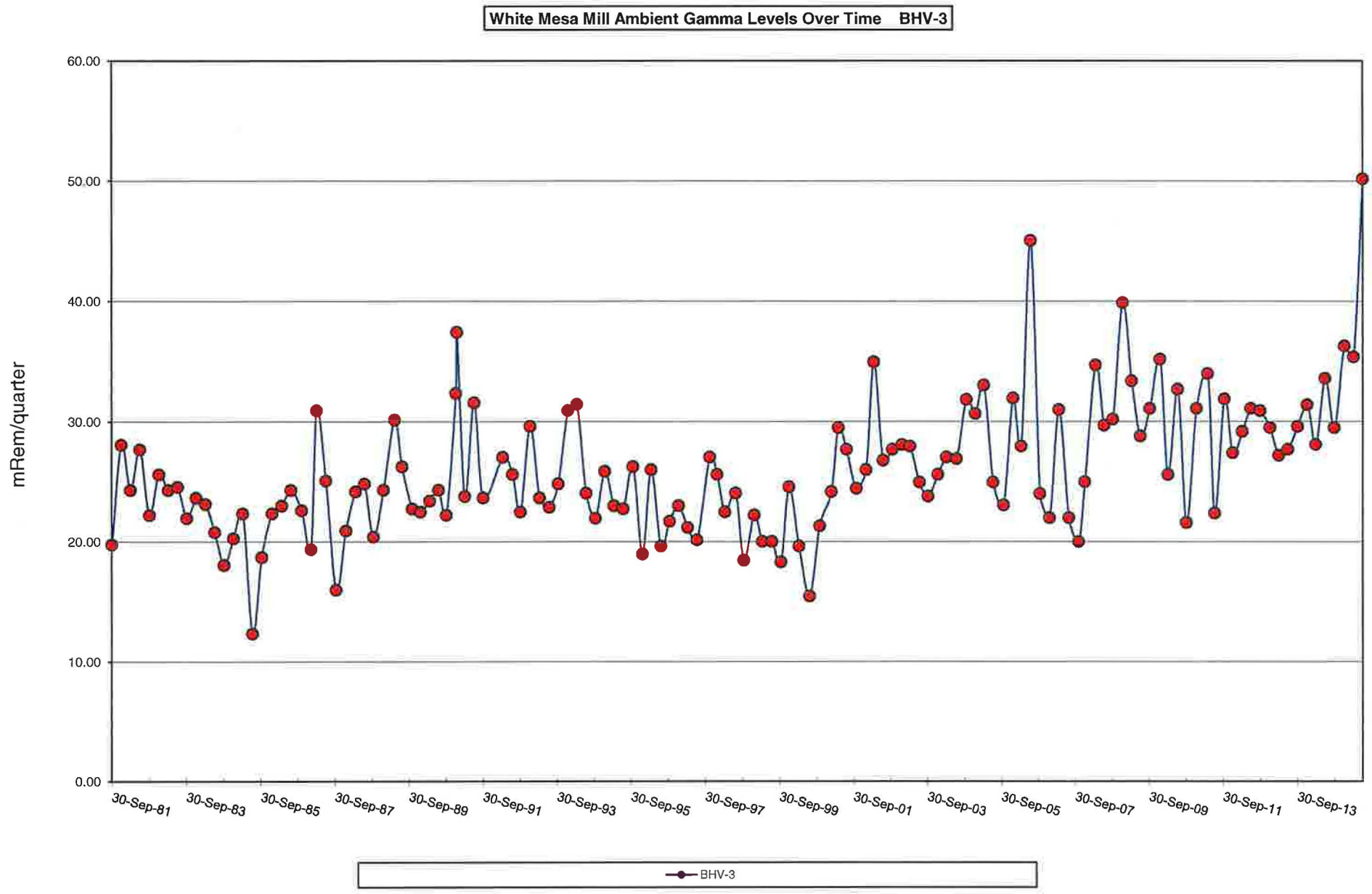
Blanks		Period: March 30th, 2015- June 29th, 2015		
Week #	Filter Number	Start Date	Stop Date	Net
1	8970310	30-Mar-15	06-Apr-15	4.3778
2	8970309	06-Apr-15	13-Apr-15	4.3834
3	8953794	13-Apr-15	20-Apr-15	4.4264
4	8953793	20-Apr-15	27-Apr-15	4.4088
5	8953778	27-Apr-15	04-Mar-15	4.4245
6	8953777	04-May-15	11-May-15	4.4168
7	8953762	11-May-15	18-May-15	4.4337
8	8953761	18-May-15	26-May-15	4.4474
9	8953753	26-May-15	01-Jun-15	4.4297
10	8953745	01-Jun-15	08-Jun-15	4.4259
11	8953737	08-Jun-15	15-Jun-15	4.4486
12	8953722	15-Jun-15	22-Jun-15	4.4106
13	8953701	22-Jun-15	29-Jun-15	4.4266
	Totals			4.4200

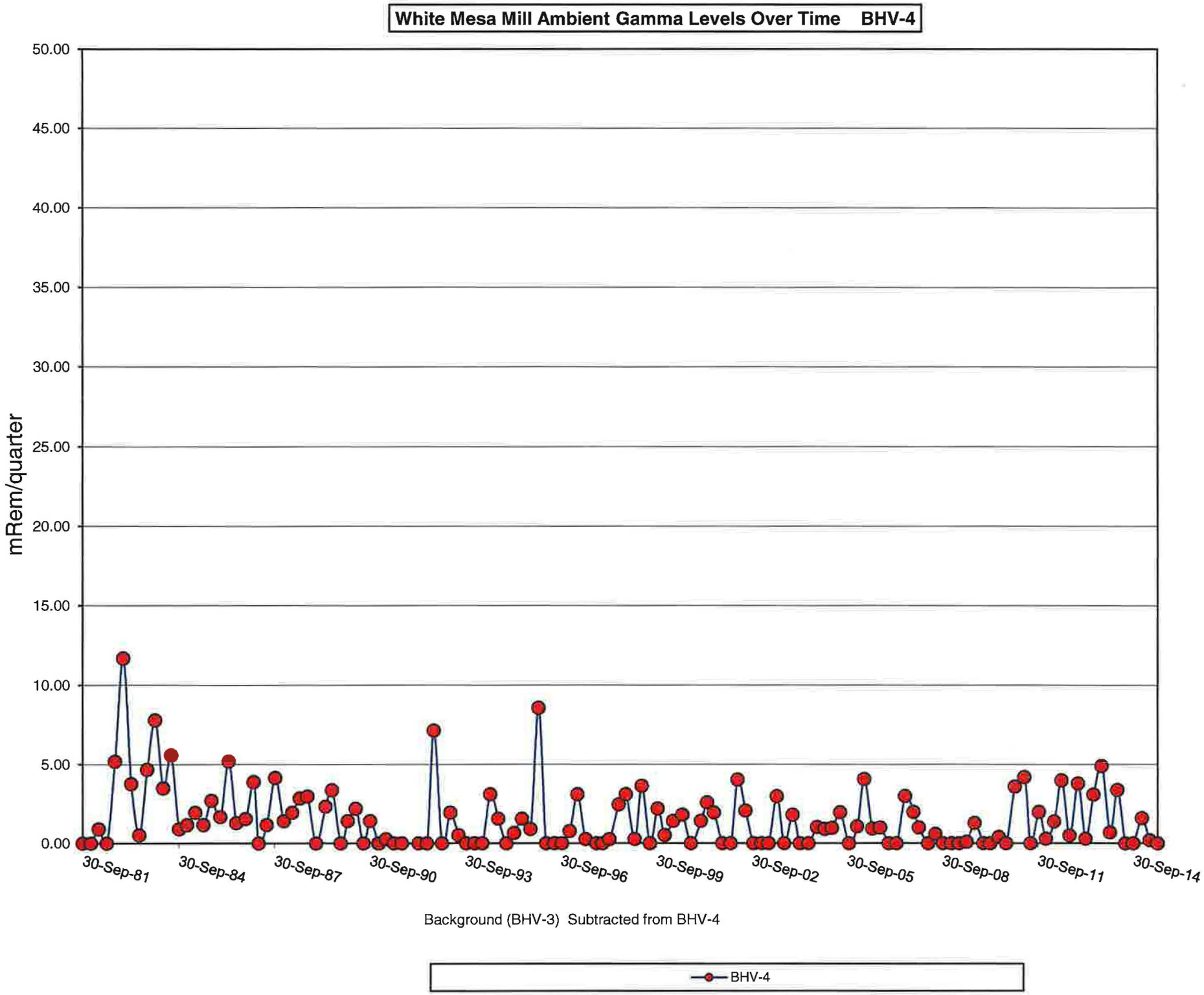
ATTACHMENT E

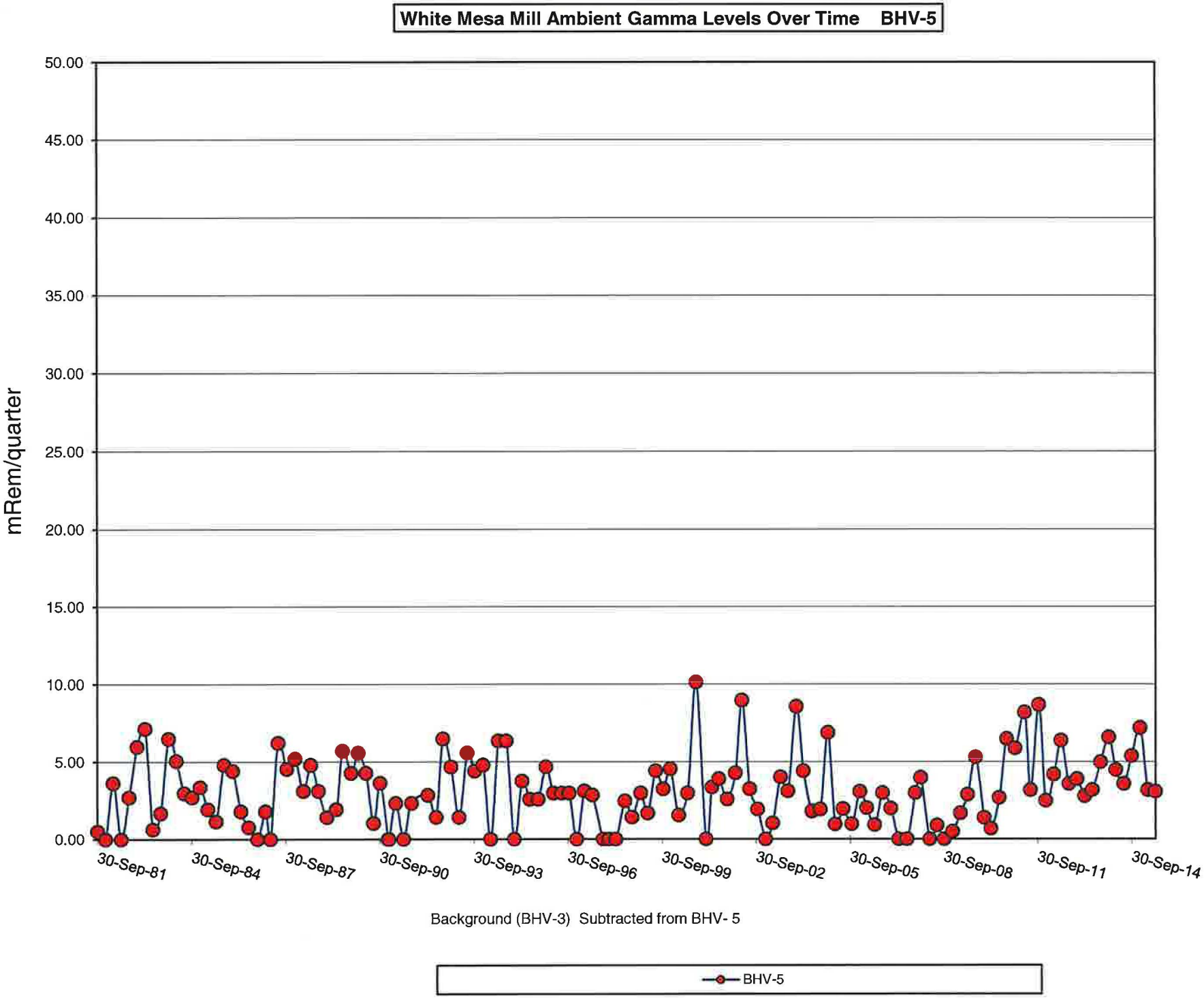
ENVIRONMENTAL GAMMA GRAPHS AND SUPPORTING DATA

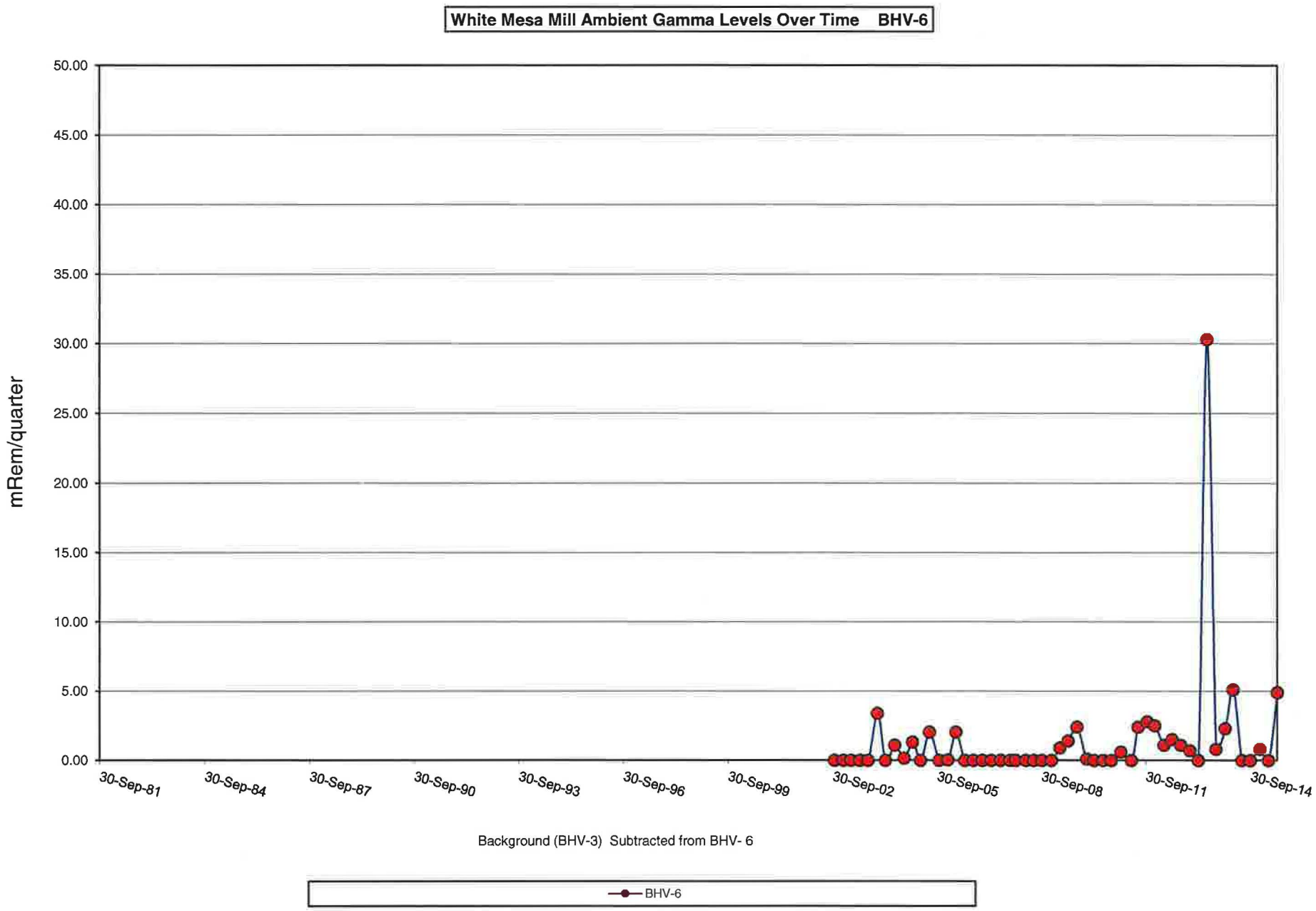

White Mesa Mill Ambient Gamma Levels Over Time BHV-1
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
9/30/1981
9/30/1984
9/30/1987
9/30/1990
9/30/1993
9/30/1996
9/30/1999
9/30/2002
9/30/2005
9/30/2008
9/30/2011
9/30/2014
Background (BHV-3) Subtracted from BHV-1
Series1

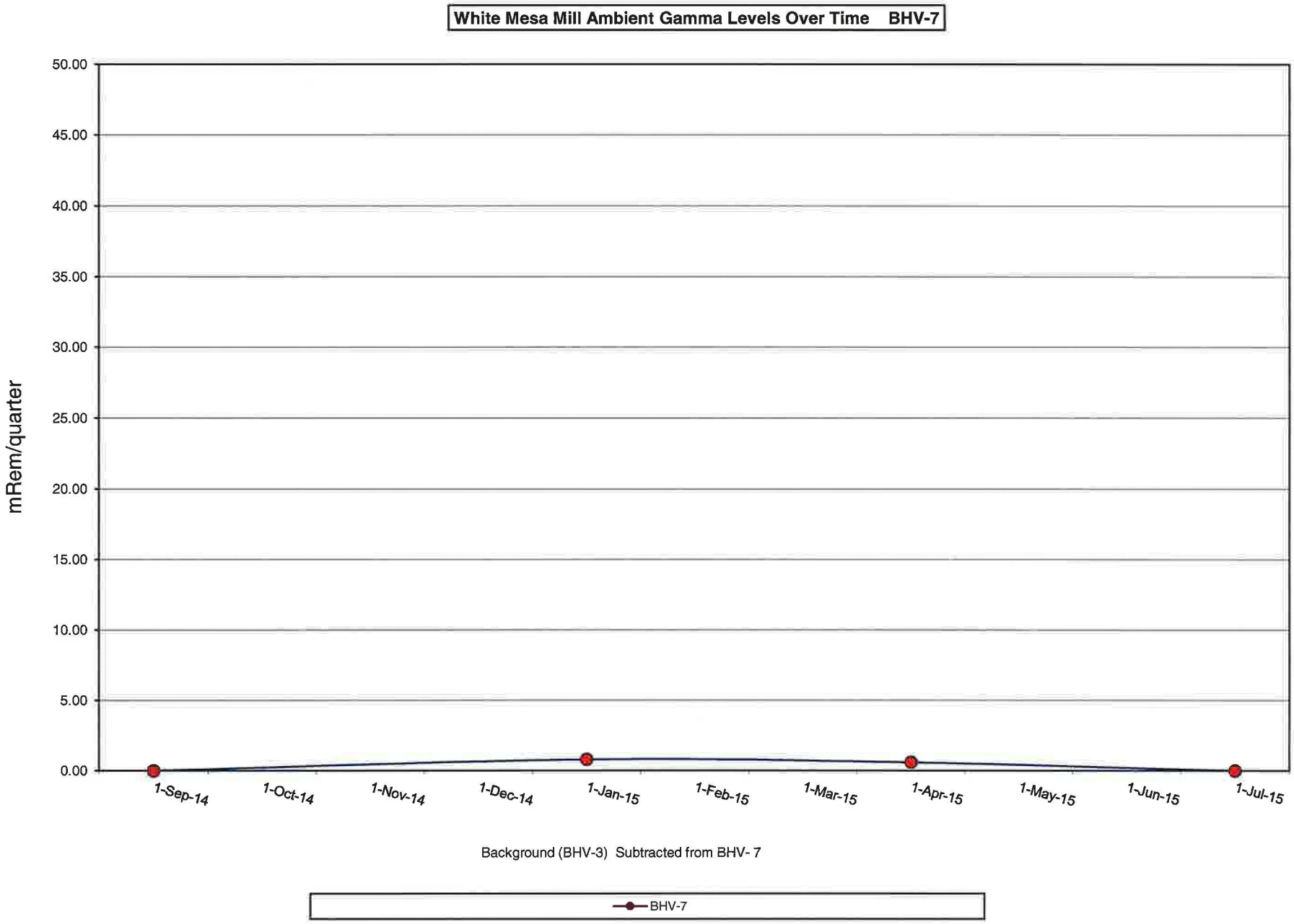

White Mesa Mill Ambient Gamma Levels Over Time BHV-2
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
30-Sep-81
30-Sep-89
30-Sep-97
30-Sep-05
30-Sep-13
Background (BHV-3) Subtracted from BHV-2
BHV-2

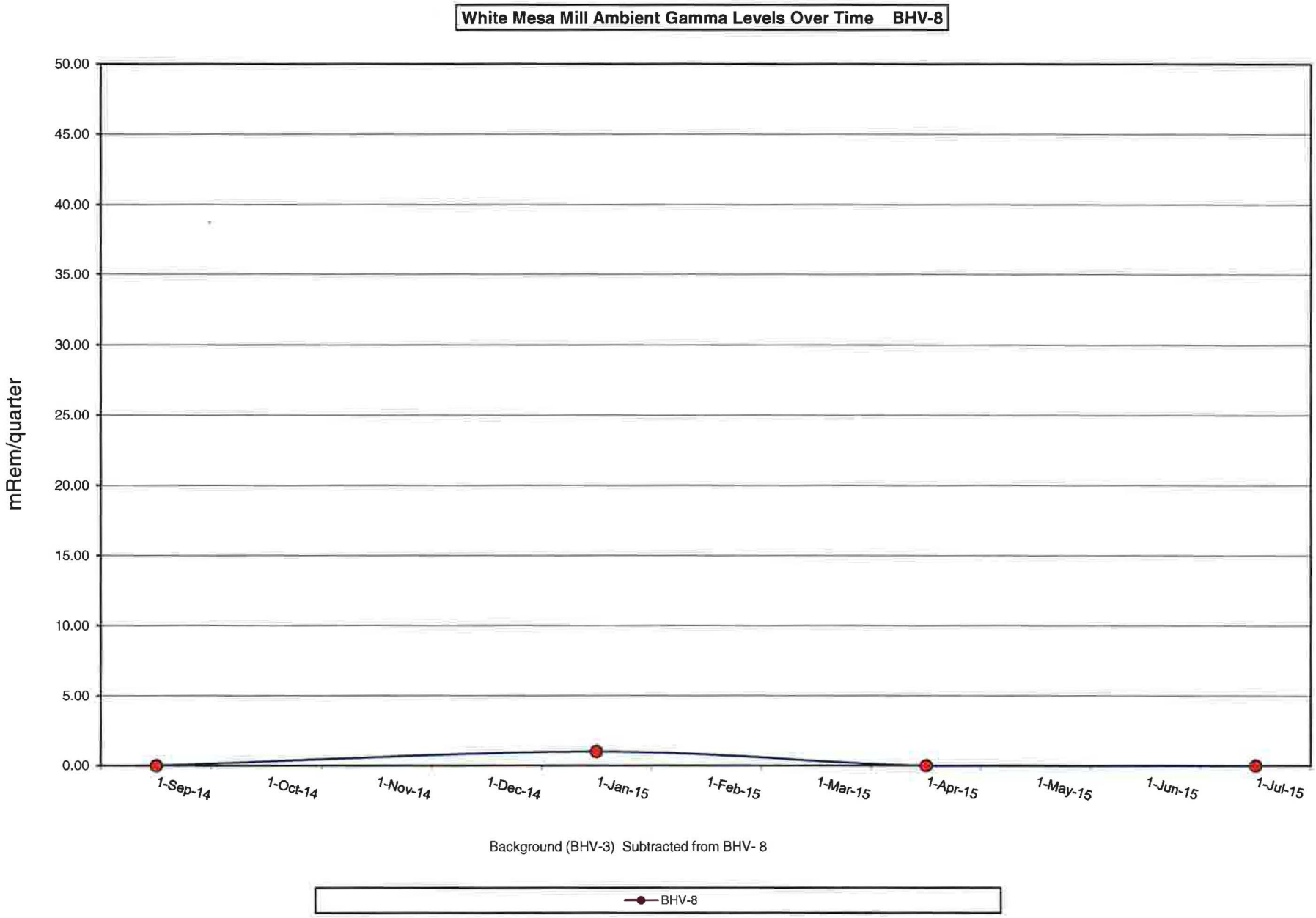

White Mesa Mill Ambient Gamma Levels Over Time BHV-3
mRem/quarter
60.00
50.00
40.00
30.00
20.00
10.00
0.00
30-Sep-81
30-Sep-83
30-Sep-85
30-Sep-87
30-Sep-89
30-Sep-91
30-Sep-93
30-Sep-95
30-Sep-97
30-Sep-99
30-Sep-01
30-Sep-03
30-Sep-05
30-Sep-07
30-Sep-09
30-Sep-11
30-Sep-13
BHV-3


White Mesa Mill Ambient Gamma Levels Over Time BHV-4
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
30-Sep-81
30-Sep-84
30-Sep-87
30-Sep-90
30-Sep-93
30-Sep-96
30-Sep-99
30-Sep-02
30-Sep-05
30-Sep-08
30-Sep-11
30-Sep-14
Background (BHV-3) Subtracted from BHV-4
BHV-4


White Mesa Mill Ambient Gamma Levels Over Time BHV-5
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
30-Sep-81
30-Sep-84
30-Sep-87
30-Sep-90
30-Sep-93
30-Sep-96
30-Sep-99
30-Sep-02
30-Sep-05
30-Sep-08
30-Sep-11
30-Sep-14
Background (BHV-3) Subtracted from BHV- 5
BHV-5


White Mesa Mill Ambient Gamma Levels Over Time BHV-6
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
30-Sep-81
30-Sep-84
30-Sep-87
30-Sep-90
30-Sep-93
30-Sep-96
30-Sep-99
30-Sep-02
30-Sep-05
30-Sep-08
30-Sep-11
30-Sep-14
Background (BHV-3) Subtracted from BHV- 6
BHV-6


White Mesa Mill Ambient Gamma Levels Over Time BHV-7
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
1-Sep-14
1-Oct-14
1-Nov-14
1-Dec-14
1-Jan-15
1-Feb-15
1-Mar-15
1-Apr-15
1-May-15
1-Jun-15
1-Jul-15
Background (BHV-3) Subtracted from BHV- 7
BHV-7


White Mesa Mill Ambient Gamma Levels Over Time BHV-8
mRem/quarter
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
1-Sep-14
1-Oct-14
1-Nov-14
1-Dec-14
1-Jan-15
1-Feb-15
1-Mar-15
1-Apr-15
1-May-15
1-Jun-15
1-Jul-15
Background (BHV-3) Subtracted from BHV- 8
BHV-8

White Mesa Mill First Quarter 2015 Environmental Spherical Gamma Monitor Results

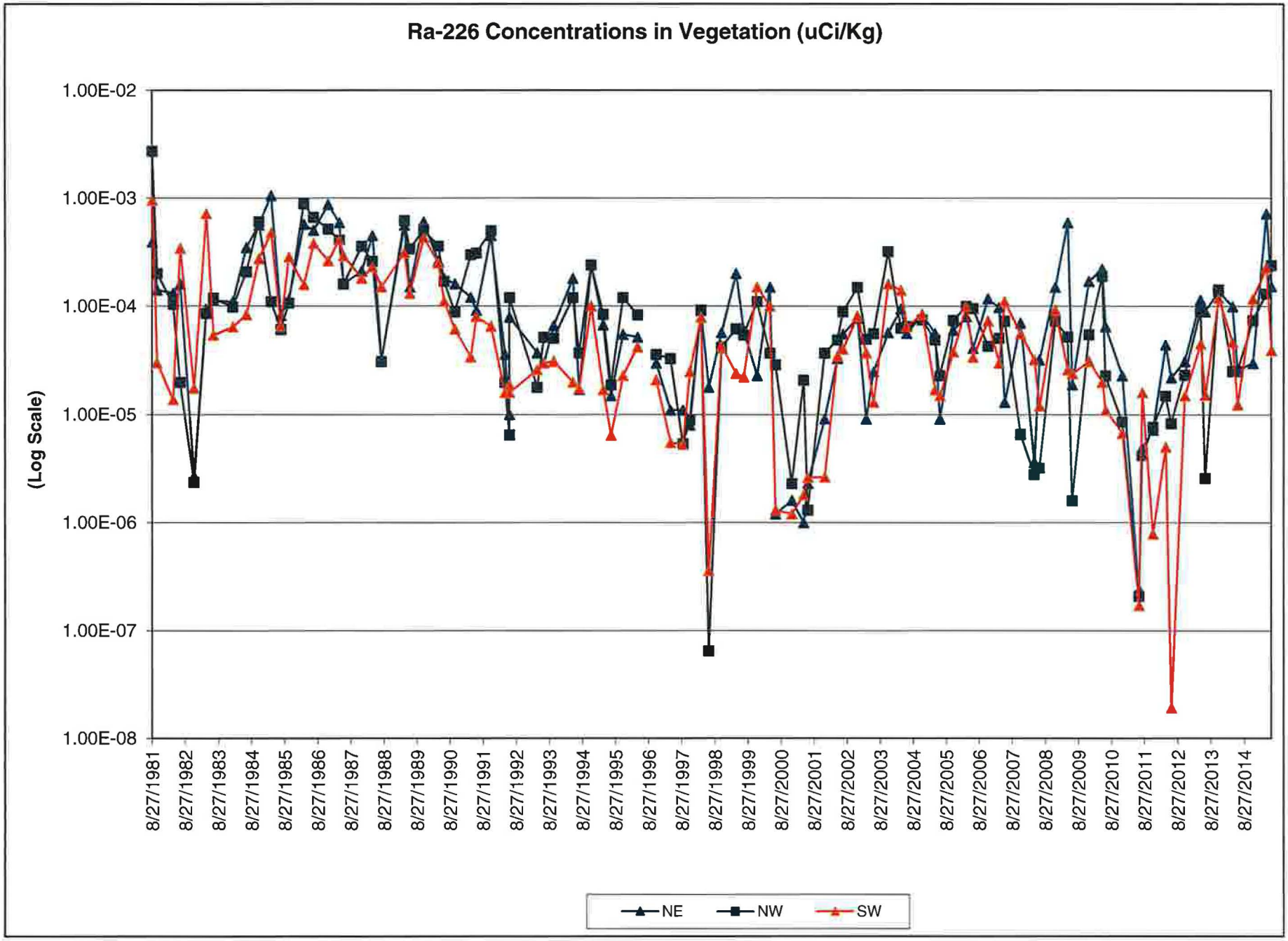
Badge Number	Location	Date Issued	Date Returned	Total Days Badge at WMM	Mean Ambient Dose Equivalent	mRem / hour	mRem / Day	mRem / Week
Control	Administration Vault	1/2/2015	4/1/2015	89	43.2	0.02	0.485	3.40
1	V2O5 Control Room	1/2/2015	4/1/2015	89	52.4	0.02	0.589	4.12
2	BHV-6	1/2/2015	4/1/2015	89	31	0.01	0.348	2.44
3	Ore Stor. - Barrel Area	1/2/2015	4/1/2015	89	328.6	0.15	3.692	25.84
4	Vanadium Precip.Area	1/2/2015	4/1/2015	89	148	0.07	1.663	11.64
5	Yellowcake Drying Area	1/2/2015	4/1/2015	89	306.7	0.14	3.446	24.12
6	Leach	1/2/2015	4/1/2015	89	197.2	0.09	2.216	15.51
7	SAG Mill Control Room	1/2/2015	4/1/2015	89	223	0.10	2.506	17.54
8	Yellowcake Precip.	1/2/2015	4/1/2015	89	388.5	0.18	4.365	30.56
9	Central Control Room	1/2/2015	4/1/2015	89	102.6	0.05	1.153	8.07
10	Ore pad - decontamination pad	1/2/2015	4/1/2015	89	124.9	0.06	1.403	9.82
11	North East Corner Ore Pad	1/2/2015	4/1/2015	89	299.2	0.14	3.362	23.53
12	Met. Lab	1/2/2015	4/1/2015	89	94.3	0.04	1.060	7.42
13	Filter Press Room	1/2/2015	4/1/2015	89	162.9	0.08	1.830	12.81
14	BHV-1	1/2/2015	4/1/2015	89	37.7	0.02	0.424	2.97
15	BHV-2	1/2/2015	4/1/2015	89	38.3	0.02	0.430	3.01
16	BHV-3	1/2/2015	4/1/2015	89	35.4	0.02	0.398	2.78
17	BHV-4	1/2/2015	4/1/2015	89	35.6	0.02	0.400	2.80
18	BHV-5	1/2/2015	4/1/2015	89	38.6	0.02	0.434	3.04
19	SAG Mill	1/2/2015	4/1/2015	89	289.3	0.14	3.251	22.75
20	Tails	1/2/2015	4/1/2015	89	58.8	0.03	0.661	4.62
21	CCD	1/2/2015	4/1/2015	89	109.6	0.05	1.231	8.62
22	North SX	1/2/2015	4/1/2015	89	61.5	0.03	0.691	4.84
23	Administration Building	1/2/2015	4/1/2015	89	48.9	0.02	0.549	3.85
24	Admin Parking Lot	1/2/2015	4/1/2015	89	92.1	0.04	1.035	7.24
25	Yellowcake Packaging	1/2/2015	4/1/2015	89	1176.9	0.55	13.224	92.57
26	Yellowcake Storage	1/2/2015	4/1/2015	89	813.6	0.38	9.142	63.99
27	Bucking Room	1/2/2015	4/1/2015	89	154.7	0.07	1.738	12.17
28	Mill Lunch Room	1/2/2015	4/1/2015	89	67.8	0.03	0.762	5.33
29	South SX	1/2/2015	4/1/2015	89	135	0.06	1.517	10.62
30	Mtce. Super.'s Office	1/2/2015	4/1/2015	89	56.5	0.03	0.635	4.44
31	Ore Feed Grizzly	1/2/2015	4/1/2015	89	312.9	0.15	3.516	24.61
32	Scalehouse	1/2/2015	4/1/2015	89	206.5	0.10	2.320	16.24
33	Sample Plant (OBS)	1/2/2015	4/1/2015	89	250.6	0.12	2.816	19.71
34	Front Gate	1/2/2015	4/1/2015	89	211.3	0.10	2.374	16.62
45	AF - Barrel Dump Station	1/2/2015	4/1/2015	89	154.5	0.07	1.736	12.15
46	AF Circuit - South	1/2/2015	4/1/2015	89	64.3	0.03	0.722	5.06
47	AF Circuit - North	1/2/2015	4/1/2015	89	101.6	0.05	1.142	7.99
51	North Control # 1	1/2/2015	4/1/2015	89		0.00	0.000	0.00
52	North Control # 2	1/2/2015	4/1/2015	89		0.00	0.000	0.00
53	CaF2 Barrel Dump Station - Operator Station	1/2/2015	4/1/2015	89	116.4	0.05	1.308	9.16
64	KF Barrel Dump Station	1/2/2015	4/1/2015	89	340.9	0.16	3.830	26.81
70	BHV-7	1/2/2015	4/1/2015	89	36	0.02	0.404	2.83
71	BHV-8	1/2/2015	4/1/2015	89	34.6	0.02	0.389	2.72

White Mesa Mill Second Quarter 2015 Environmental Spherical Gamma Monitor Results

Badge Number	Location	Date Issued	Date Returned	Total Days Badge at WMM	Mean Ambient Dose Equivalent	mRem / hour	mRem / Day	mRem / Week
Control	Administration Vault	4/1/2015	7/1/2015	91	51.7	0.02	0.568	3.98
1	V2O5 Control Room	4/1/2015	7/1/2015	91	62.9	0.03	0.691	4.84
2	BHV-6	4/1/2015	7/1/2015	91	55.1	0.03	0.605	4.24
3	Ore Stor. - Barrel Area	4/1/2015	7/1/2015	91	390.4	0.18	4.290	30.03
4	Vanadium Precip.Area	4/1/2015	7/1/2015	91	155.8	0.07	1.712	11.98
5	Yellowcake Drying Area	4/1/2015	7/1/2015	91	423.9	0.19	4.658	32.61
6	Leach	4/1/2015	7/1/2015	91		0.00	0.000	0.00
7	SAG Mill Control Room	4/1/2015	7/1/2015	91	267.3	0.12	2.937	20.56
8	Yellowcake Precip.	4/1/2015	7/1/2015	91	419.1	0.19	4.605	32.24
9	Central Control Room	4/1/2015	7/1/2015	91	100.9	0.05	1.109	7.76
10	Ore pad - decontamination pad	4/1/2015	7/1/2015	91	135.8	0.06	1.492	10.45
11	North East Corner Ore Pad	4/1/2015	7/1/2015	91	299.7	0.14	3.293	23.05
12	Met. Lab	4/1/2015	7/1/2015	91	97.5	0.04	1.071	7.50
13	Filter Press Room	4/1/2015	7/1/2015	91	158.3	0.07	1.740	12.18
14	BHV-1	4/1/2015	7/1/2015	91	50.6	0.02	0.556	3.89
15	BHV-2	4/1/2015	7/1/2015	91	52.2	0.02	0.574	4.02
16	BHV-3	4/1/2015	7/1/2015	91	50.2	0.02	0.552	3.86
17	BHV-4	4/1/2015	7/1/2015	91	48.1	0.02	0.529	3.70
18	BHV-5	4/1/2015	7/1/2015	91	53.3	0.02	0.586	4.10
19	SAG Mill	4/1/2015	7/1/2015	91	308.8	0.14	3.393	23.75
20	Tails	4/1/2015	7/1/2015	91	82.6	0.04	0.908	6.35
21	CCD	4/1/2015	7/1/2015	91	92.4	0.04	1.015	7.11
22	North SX	4/1/2015	7/1/2015	91	63	0.03	0.692	4.85
23	Administration Building	4/1/2015	7/1/2015	91	53.7	0.02	0.590	4.13
24	Admin Parking Lot	4/1/2015	7/1/2015	91	95.2	0.04	1.046	7.32
25	Yellowcake Packaging	4/1/2015	7/1/2015	91	762.9	0.35	8.384	58.68
26	Yellowcake Storage	4/1/2015	7/1/2015	91	1123.2	0.51	12.343	86.40
27	Bucking Room	4/1/2015	7/1/2015	91	157.9	0.07	1.735	12.15
28	Mill Lunch Room	4/1/2015	7/1/2015	91	74.7	0.03	0.821	5.75
29	South SX	4/1/2015	7/1/2015	91	138.2	0.06	1.519	10.63
30	Mtce. Super.'s Office	4/1/2015	7/1/2015	91	60.3	0.03	0.663	4.64
31	Ore Feed Grizzly	4/1/2015	7/1/2015	91	367	0.17	4.033	28.23
32	Scalehouse	4/1/2015	7/1/2015	91	216.5	0.10	2.379	16.65
33	Sample Plant (OBS)	4/1/2015	7/1/2015	91	220.3	0.10	2.421	16.95
34	Front Gate	4/1/2015	7/1/2015	91	192.1	0.09	2.111	14.78
45	AF - Barrel Dump Station	4/1/2015	7/1/2015	91	323.2	0.15	3.552	24.86
46	AF Circuit - South	4/1/2015	7/1/2015	91	95.3	0.04	1.047	7.33
47	AF Circuit - North	4/1/2015	7/1/2015	91		0.00	0.000	0.00
51	North Control # 1	4/1/2015	7/1/2015	91	53.4	0.02	0.587	4.11
52	North Control # 2	4/1/2015	7/1/2015	91	50.9	0.02	0.559	3.92
53	CaF2 Barrel Dump Station - Operator Station	4/1/2015	7/1/2015	91	124.6	0.06	1.369	9.58
64	KF Barrel Dump Station	4/1/2015	7/1/2015	91	316.9	0.15	3.482	24.38
70	BHV-7	4/1/2015	7/1/2015	91	46.6	0.02	0.512	3.58
71	BHV-8	4/1/2015	7/1/2015	91	46.1	0.02	0.507	3.55

ATTACHMENT F

VEGETATION GRAPHS, DATA TABLE, LABORATORY RESULTS AND QA/QC


Ra-226 Concentrations in Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
8/27/1981
8/27/1982
8/27/1983
8/27/1984
8/27/1985
8/27/1986
8/27/1987
8/27/1988
8/27/1989
8/27/1990
8/27/1991
8/27/1992
8/27/1993
8/27/1994
8/27/1995
8/27/1996
8/27/1997
8/27/1998
8/27/1999
8/27/2000
8/27/2001
8/27/2002
8/27/2003
8/27/2004
8/27/2005
8/27/2006
8/27/2007
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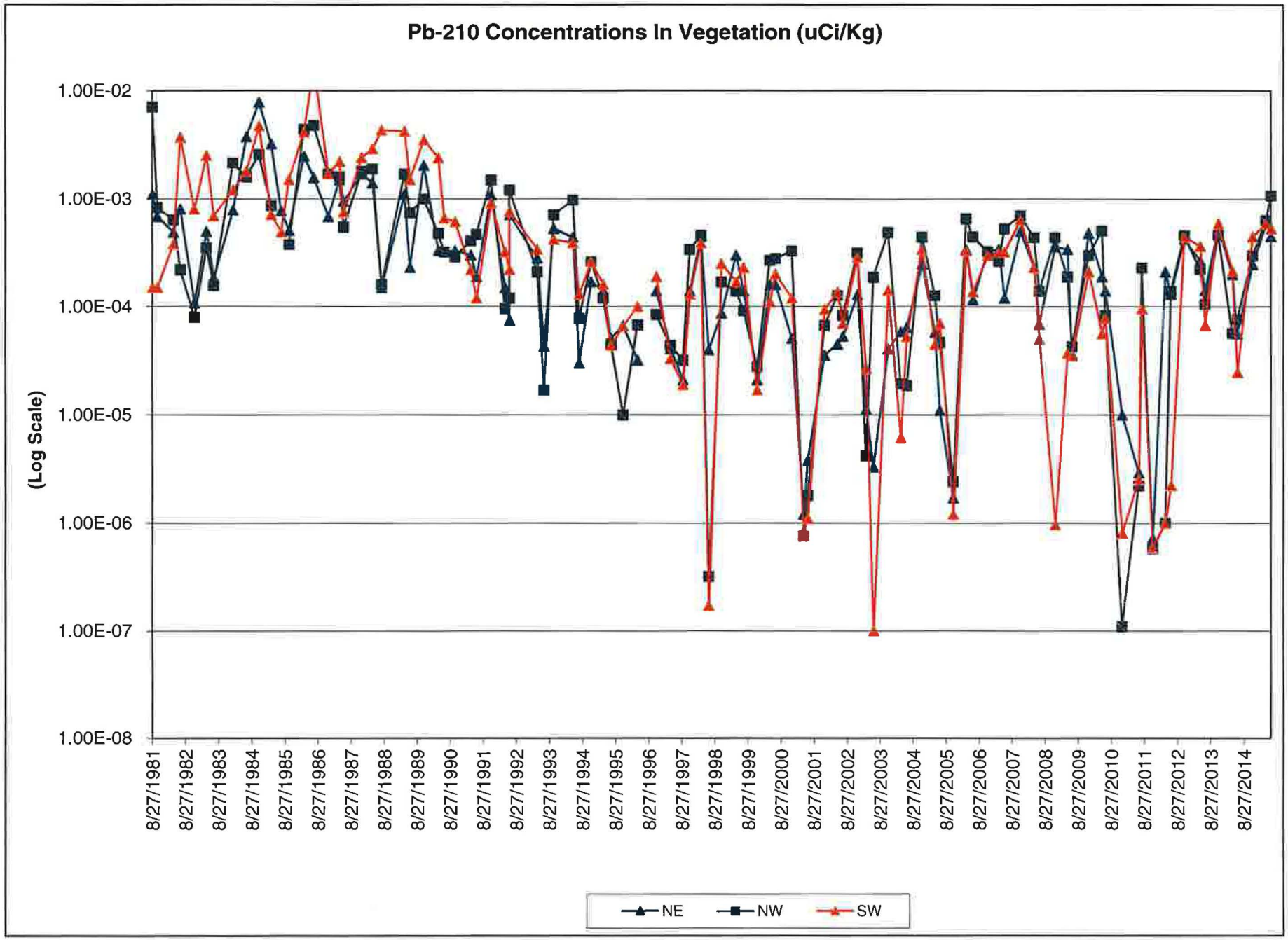
8/27/2012
8/27/2013
8/27/2014
NE
NW
SW


Pb-210 Concentrations In Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
8/27/1981
8/27/1982
8/27/1983
8/27/1984
8/27/1985
8/27/1986
8/27/1987
8/27/1988
8/27/1989
8/27/1990
8/27/1991
8/27/1992
8/27/1993
8/27/1994
8/27/1995
8/27/1996
8/27/1997
8/27/1998
8/27/1999
8/27/2000
8/27/2001
8/27/2002
8/27/2003
8/27/2004
8/27/2005
8/27/2006
8/27/2007
8/27/2008
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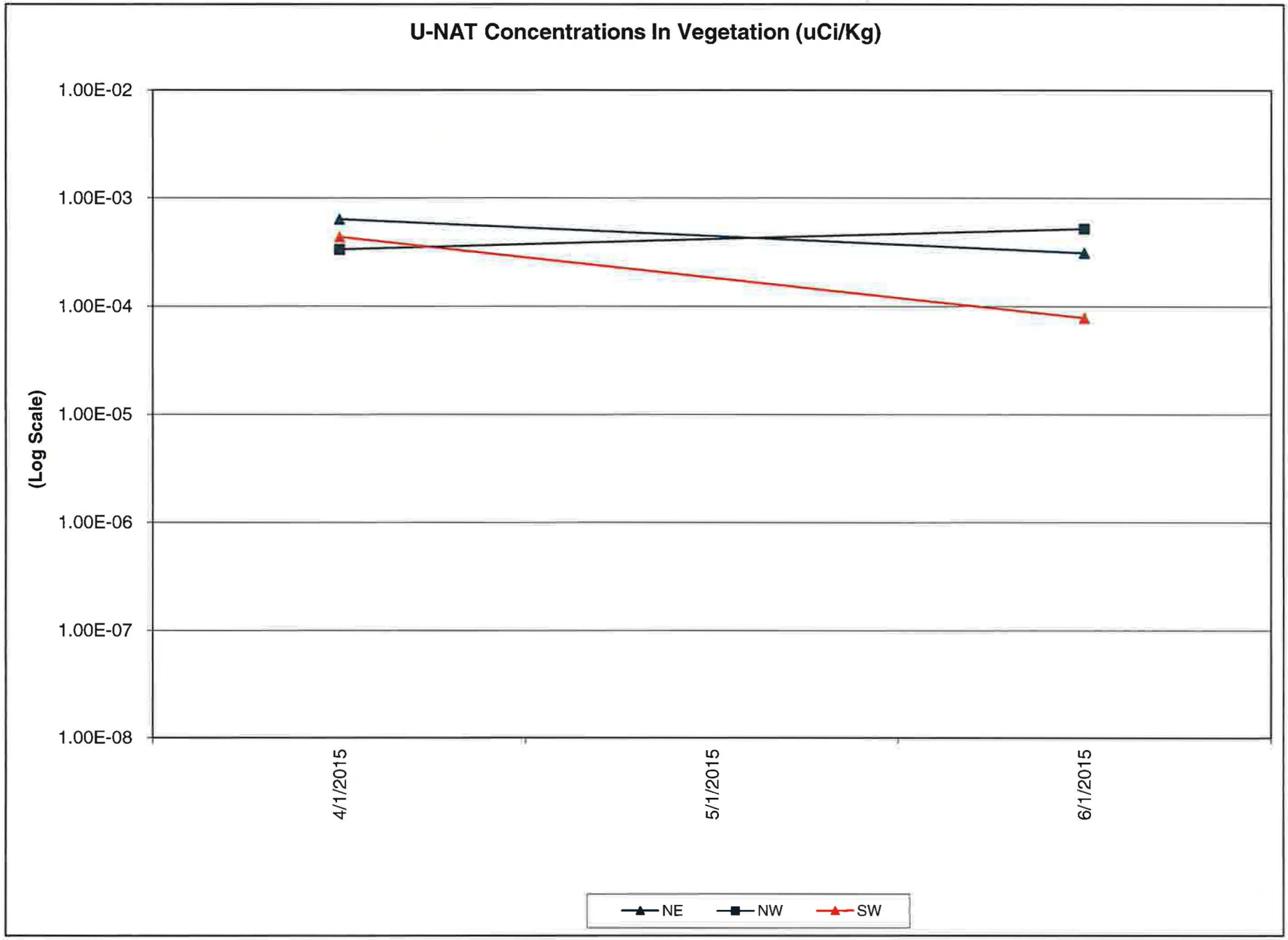
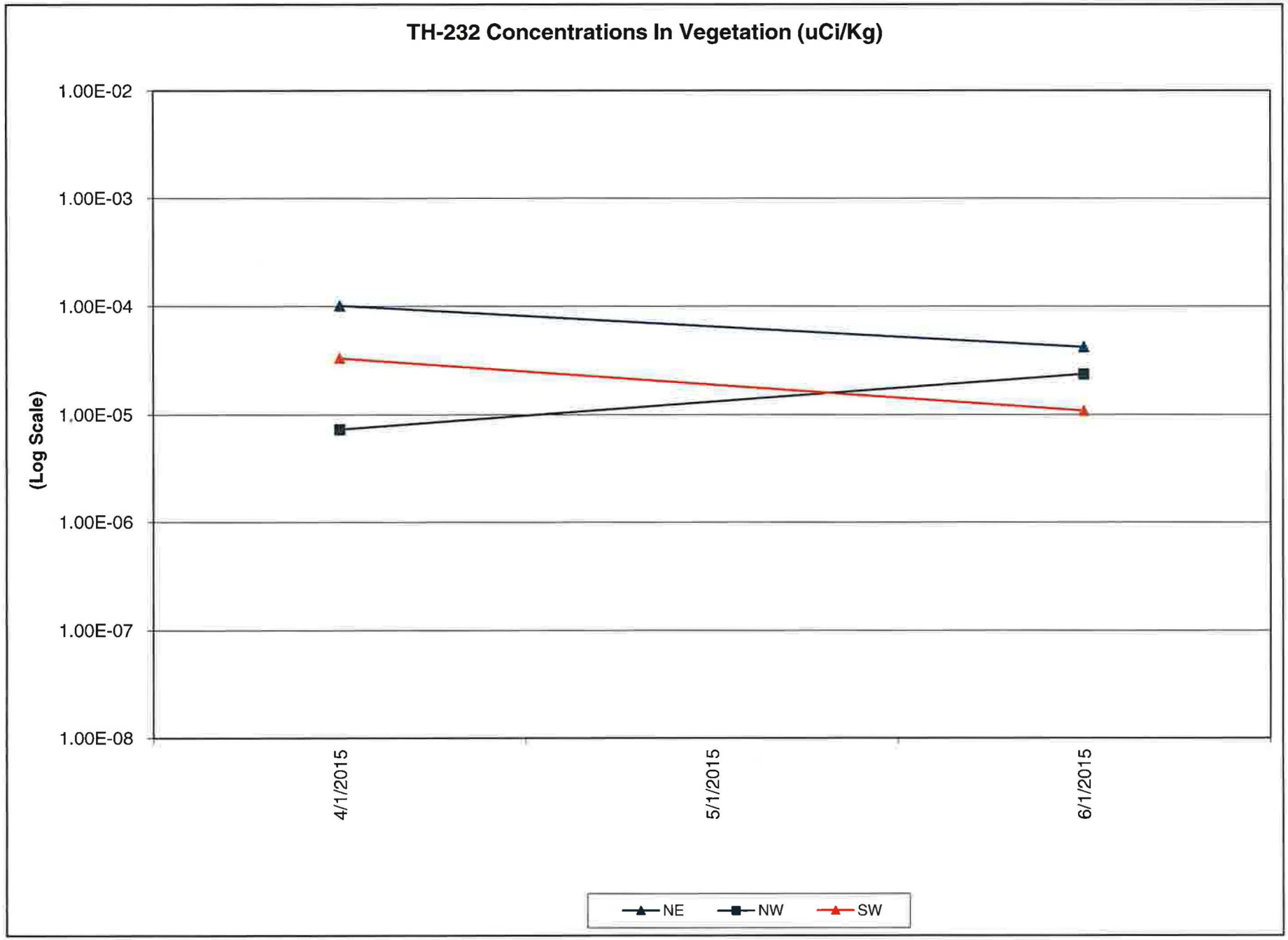
8/27/2010
8/27/2011
8/27/2012
8/27/2013
8/27/2014
NE
NW
SW


U-NAT Concentrations In Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
4/1/2015
5/1/2015
6/1/2015
NE
NW
SW


TH-232 Concentrations In Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
4/1/2015
5/1/2015
6/1/2015
NE
NW
SW

WHITE MESA MILL
FORAGE RADIONUCLIDE DATA
NORTHEAST OF MILL

SAMPLED QTR.	SAMPLED DATE	Ra-226	Ra-226	LLD	Pb-210	Pb-210	LLD	U-NAT	U-NAT	LLD	Th-232	Th-232	LLD
		VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (5.0E-08)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (1.0E-06)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)†
3rd '81	27-Aug-81	3.90E-04	1.00E-05	5.00E-08	1.10E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
4th '81	20-Oct-81	1.40E-04	1.00E-05	5.00E-08	6.80E-04	8.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '82	15-Apr-82	1.31E-04	1.30E-05	1.00E-06	4.90E-04	7.00E-05	8.00E-05	NS	NA	NA	NS	NA	NA
3rd '82	01-Jul-82	1.60E-04	1.00E-05	5.00E-08	8.00E-04	1.70E-04	1.00E-07	NS	NA	NA	NS	NA	NA
4th '82	30-Nov-82	2.67E-06	1.07E-06	1.00E-06	1.08E-04	9.00E-06	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '83	13-Apr-83	9.36E-05	6.20E-06	8.00E-09	4.97E-04	9.30E-05	1.00E-04	NS	NA	NA	NS	NA	NA
3rd '83	01-Jul-83	1.12E-04	1.20E-05	6.00E-06	1.84E-04	1.20E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '83	30-Jan-84	1.09E-04	8.00E-06	4.00E-06	7.80E-04	6.20E-05	6.00E-05	NS	NA	NA	NS	NA	NA
2nd '84	28-Jun-84	3.47E-04	1.20E-05	2.00E-09	3.75E-03	1.60E-04	4.00E-08	NS	NA	NA	NS	NA	NA
4th '84	14-Nov-84	5.61E-04	1.99E-04	2.00E-07	7.82E-03	3.30E-04	7.00E-08	NS	NA	NA	NS	NA	NA
2nd '85	27-Mar-85	1.05E-03	3.00E-05	2.00E-06	3.22E-03	1.40E-04	2.00E-05	NS	NA	NA	NS	NA	NA
3rd '85	15-Jul-85	8.20E-05	7.00E-06	3.00E-06	7.70E-04	1.30E-04	2.00E-04	NS	NA	NA	NS	NA	NA
4th '85	09-Oct-85	1.15E-04	1.00E-05	3.00E-06	5.10E-04	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '86	24-Mar-86	5.72E-04	2.10E-05	4.00E-06	2.49E-03	1.00E-04	1.00E-05	NS	NA	NA	NS	NA	NA
3rd '86	10-Jul-86	5.01E-04	1.30E-05	3.00E-06	1.57E-03	1.70E-03	2.00E-04	NS	NA	NA	NS	NA	NA
4th '86	18-Dec-86	8.70E-04	5.00E-05	3.00E-06	6.80E-04	3.00E-05	3.00E-06	NS	NA	NA	NS	NA	NA
2nd '87	20-Apr-87	5.90E-04	7.00E-05	5.00E-08	1.50E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '87	05-Jun-87	1.60E-04	3.00E-05	5.00E-08	9.50E-04	4.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '87	22-Dec-87	2.10E-04	4.00E-05	5.00E-08	1.70E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '88	19-Apr-88	4.50E-04	7.00E-05	5.00E-08	1.40E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '88	28-Jul-88	3.20E-05	2.20E-05	5.00E-08	1.50E-04	4.40E-04	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '89	07-Apr-89	5.60E-04	4.00E-05	***	1.10E-03	1.00E-01	***	NS	NA	NA	NS	NA	NA
3rd '89	06-Jun-89	1.50E-04	2.00E-05	***	2.30E-04	2.00E-05	***	NS	NA	NA	NS	NA	NA
4th '89	07-Nov-89	6.00E-04	5.00E-05	7.00E-06	2.04E-03	7.00E-05	1.40E-05	NS	NA	NA	NS	NA	NA
1st '90	17-Apr-90	2.60E-04	3.00E-05	4.00E-06	3.30E-04	2.00E-05	2.20E-05	NS	NA	NA	NS	NA	NA
2nd '90	20-Jun-90	1.80E-04	2.00E-05	5.00E-08	3.20E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '90	17-Oct-90	1.60E-04	2.00E-05	5.00E-08	3.30E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '91	10-Apr-91	1.20E-04	2.00E-05	5.00E-06	3.00E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '91	11-Jun-91	9.10E-05	1.60E-05	2.00E-07	1.90E-04	2.00E-05	2.00E-07	NS	NA	NA	NS	NA	NA
3rd '91	20-Nov-91	4.50E-04	4.00E-05	5.00E-08	1.09E-03	5.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '92	22-Apr-92	3.60E-05	1.00E-05	2.00E-06	1.50E-04	2.00E-05	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '92	10-Jun-92	1.00E-05	7.00E-06	2.00E-07	7.50E-05	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '92	10-Jun-92	7.90E-05	3.50E-05	3.00E-06	7.10E-04	7.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '93	13-Apr-93	3.70E-05	2.20E-05	3.00E-06	2.80E-04	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '93	26-Jun-93	3.00E-05	1.50E-05	3.00E-06	4.30E-05	3.50E-05	2.00E-05	NS	NA	NA	NS	NA	NA
3rd '93	12-Oct-93	6.60E-05	2.70E-05	3.00E-06	5.30E-04	6.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '94	11-May-94	1.80E-04	4.00E-05	3.00E-05	4.40E-04	6.00E-05	2.00E-04	NS	NA	NA	NS	NA	NA
2nd '94	19-Jul-94	1.71E-05	1.20E-06	9.00E-08	3.00E-05	6.10E-06	4.45E-06	NS	NA	NA	NS	NA	NA
3rd '94	28-Nov-94	2.40E-04	1.50E-05	1.70E-07	1.70E-04	1.10E-05	8.30E-07	NS	NA	NA	NS	NA	NA
1st '95	11-Apr-95	6.70E-05	5.40E-06	1.60E-07	1.40E-04	1.30E-05	7.90E-07	NS	NA	NA	NS	NA	NA
2nd '95	06-Jul-95	1.50E-05	1.50E-06	1.50E-07	5.10E-05	4.50E-06	7.60E-07	NS	NA	NA	NS	NA	NA
3rd '95	15-Nov-95	5.50E-05	5.00E-06	1.80E-07	6.70E-05	1.00E-05	8.80E-07	NS	NA	NA	NS	NA	NA
1st '96	23-Apr-96	5.20E-05	2.50E-06	1.50E-07	3.20E-05	4.50E-06	1.80E-07	NS	NA	NA	NS	NA	NA
2nd '96 *	31-Jul-96							NS	NA	NA	NS	NA	NA
3rd '96	14-Nov-96	3.00E-05	2.50E-06	1.80E-07	1.40E-04	7.10E-06	9.30E-07	NS	NA	NA	NS	NA	NA
1st '97	21-Apr-97	1.10E-05	4.70E-07	1.21E-07	4.10E-05	3.60E-06	6.10E-07	NS	NA	NA	NS	NA	NA
3rd '97	05-Sep-97	1.10E-05	4.30E-07	1.33E-07	2.10E-05	7.30E-07	6.66E-07	NS	NA	NA	NS	NA	NA
4th '97	20-Nov-97	8.00E-06	1.20E-06	5.60E-07	1.40E-04	4.60E-06	1.10E-07	NS	NA	NA	NS	NA	NA
1st '98	23-Mar-98	<9.10E-05	9.10E-05	9.10E-05	<4.50E-04	4.50E-04	4.50E-04	NS	NA	NA	NS	NA	NA
2nd '98	16-Jun-98	1.80E-05	1.20E-06	6.30E-08	4.00E-05	1.80E-06	3.20E-07	NS	NA	NA	NS	NA	NA
4th '98	05-Nov-98	5.70E-05	1.00E-06	8.20E-08	8.70E-05	5.00E-06	4.10E-07	NS	NA	NA	NS	NA	NA
2nd '99	15-Apr-99	2.00E-04	3.00E-06	1.20E-07	3.00E-04	1.00E-05	6.00E-05	NS	NA	NA	NS	NA	NA
3rd '99	07-Jul-99	6.03E-05	1.40E-06	8.30E-08	1.40E-04	4.70E-06	4.20E-07	NS	NA	NA	NS	NA	NA
4th '99	02-Dec-99	2.30E-05	1.00E-06	2.30E-07	2.10E-05	1.00E-06	1.10E-06	NS	NA	NA	NS	NA	NA
2nd '00	21-Apr-00	1.50E-04	3.00E-06	1.20E-07	1.60E-04	8.00E-06	5.90E-07	NS	NA	NA	NS	NA	NA
2nd '00	22-Jun-00	1.20E-06	1.00E-07	2.80E-07	1.60E-04	1.00E-05	1.40E-06	NS	NA	NA	NS	NA	NA
4th '00	21-Dec-00	1.60E-06	1.10E-06	3.70E-07	5.10E-05	5.00E-06	1.90E-06	NS	NA	NA	NS	NA	NA
1st '01	30-Apr-01	1.00E-06	1.00E-07	2.40E-07	<1.2E-06	1.00E-07	2.40E-07	NS	NA	NA	NS	NA	NA
2nd '01	14-Jun-01	2.30E-06	2.00E-07	9.90E-08	3.80E-06	2.00E-07	5.00E-07	NS	NA	NA	NS	NA	NA
4th '01	17-Dec-01	9.10E-06	2.40E-06	1.20E-07	3.57E-05	2.97E-06	6.00E-07	NS	NA	NA	NS	NA	NA
1st '02	07-May-02	3.30E-05	1.80E-06	7.60E-07	4.50E-05	2.61E-06	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '02	07-Jul-02	5.55E-05	2.81E-06	7.60E-07	5.31E-05	3.90E-06	1.00E-05	NS	NA	NA	NS	NA	NA
4th '02	15-Dec-02	7.75E-05	3.60E-06	7.60E-07	1.29E-04	6.15E-06	1.00E-05	NS	NA	NA	NS	NA	NA
1st '03	21-Mar-03	9.10E-06	1.30E-06	3.60E-07	1.13E-05	1.61E-06	3.36E-06	NS	NA	NA	NS	NA	NA
2nd '03	10-Jun-03	2.50E-05	1.30E-06	3.60E-07	3.26E-06	2.00E-06	7.38E-08	NS	NA	NA	NS	NA	NA

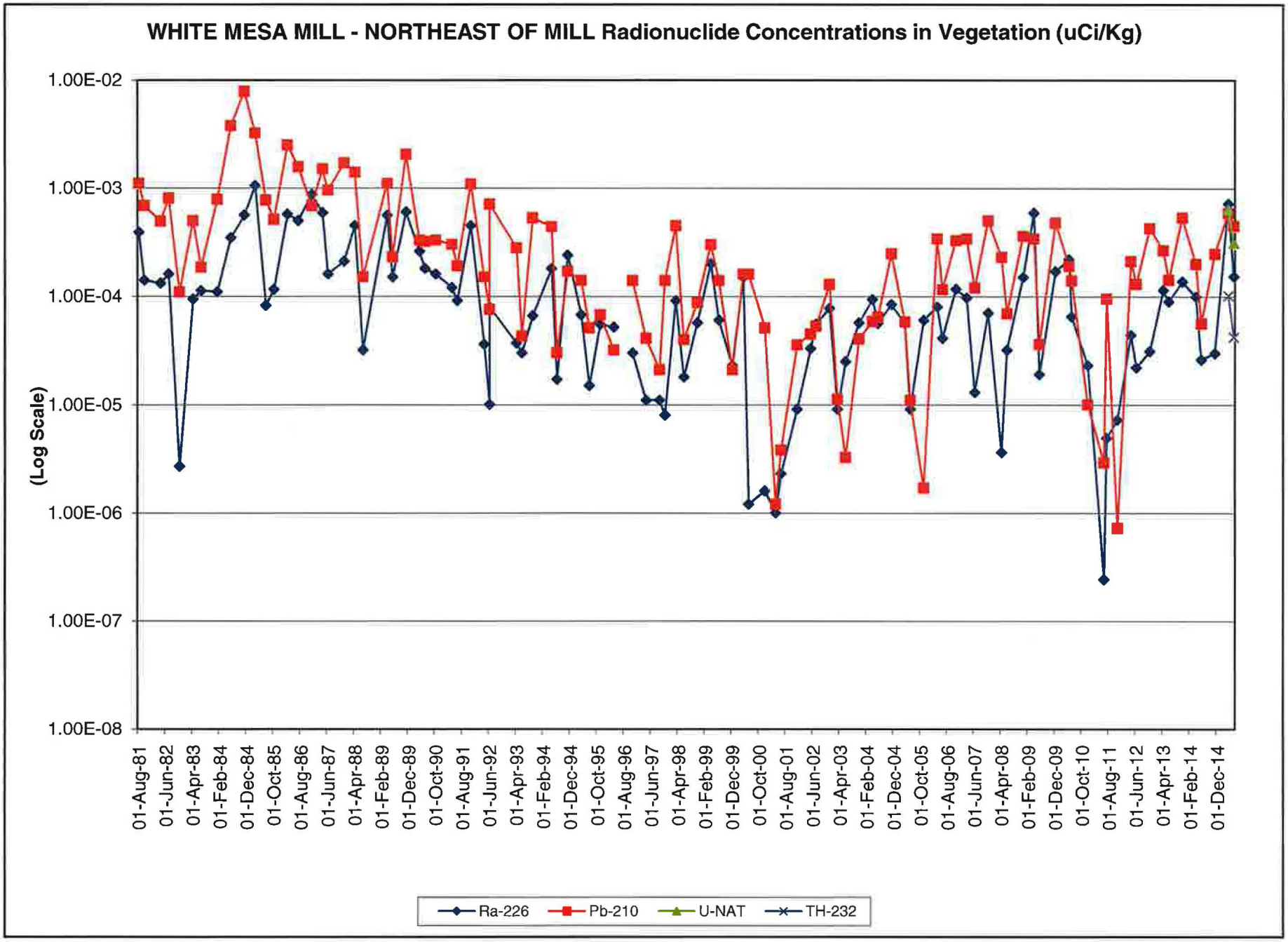
4th '03	20-Nov-03	5.70E-05	3.50E-06	1.50E-07	4.05E-05	5.82E-06	8.30E-07	NS	NA	NA	NS	NA	NA
1st '04	08-Apr-04	9.38E-05	3.70E-06	1.10E-07	5.88E-05	3.00E-06	5.50E-07	NS	NA	NA	NS	NA	NA
2nd '04	12-Jun-04	5.63E-05	3.40E-06	1.80E-07	6.42E-05	5.90E-06	9.00E-07	NS	NA	NA	NS	NA	NA
4th '04	30-Nov-04	8.41E-05	5.50E-06	2.00E-08	2.48E-04	1.40E-05	3.00E-07	NS	NA	NA	NS	NA	NA
1st '05	21-Apr-05	5.60E-05	3.00E-06	1.40E-07	5.80E-05	4.00E-06	6.90E-07	NS	NA	NA	NS	NA	NA
2nd '05	13-Jun-05	9.10E-06	1.50E-06	1.80E-07	1.10E-05	1.20E-05	9.00E-07	NS	NA	NA	NS	NA	NA
4th '05	10-Nov-05	6.00E-05	3.00E-06	1.10E-10	1.70E-06	6.40E-07	5.50E-10	NS	NA	NA	NS	NA	NA
1st '06	03-Apr-06	8.00E-05	5.00E-06	5.00E-08	3.40E-04	1.20E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '06	16-Jun-06	4.10E-05	3.10E-06	5.00E-08	1.16E-04	6.10E-06	1.00E-06	NS	NA	NA	NS	NA	NA
4th '06	28-Nov-06	1.17E-04	4.60E-06	1.90E-07	3.28E-04	9.50E-06	9.50E-07	NS	NA	NA	NS	NA	NA
1st '07	30-Mar-07	9.70E-05	4.40E-06	1.90E-07	3.40E-04	8.70E-06	8.4-07	NS	NA	NA	NS	NA	NA
2nd '07	1-Jun-07	1.30E-05	1.60E-06	1.90E-07	1.20E-04	6.60E-06	9.70E-07	NS	NA	NA	NS	NA	NA
4th '07	23-Nov-07	7.00E-05	8.20E-06	2.00E-07	5.00E-04	2.00E-05	1.20E-06	NS	NA	NA	NS	NA	NA
1st '08	22-Apr-08	3.60E-06	3.00E-06	5.20E-07	2.30E-04	1.40E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '08	18-Jun-08	3.20E-05	3.20E-06	1.80E-06	6.90E-05	3.50E-05	5.50E-05	NS	NA	NA	NS	NA	NA
4th '08	12-Dec-08	1.50E-04	5.20E-06	9.90E-07	3.60E-04	2.90E-05	3.90E-05	NS	NA	NA	NS	NA	NA
1st '09	28-Apr-09	5.90E-04	1.35E-05	1.50E-06	3.40E-04	1.30E-05	1.50E-06	NS	NA	NA	NS	NA	NA
2nd '09	17-Jun-09	1.90E-05	1.45E-06	4.90E-07	3.60E-05	1.10E-05	1.80E-05	NS	NA	NA	NS	NA	NA
4th '09	18-Dec-09	1.70E-04	5.90E-06		4.80E-04	1.20E-05		NS	NA	NA	NS	NA	NA
1st '10	13-May-10	2.20E-04	7.20E-06	1.10E-06	1.90E-04	1.90E-05	2.90E-05	NS	NA	NA	NS	NA	NA
2nd '10	18-Jun-10	6.50E-05	3.40E-06	7.60E-07	1.40E-04	1.90E-05	2.90E-05	NS	NA	NA	NS	NA	NA
4th '10	20-Dec-10	2.30E-05	1.70E-06	5.20E-07	1.00E-05	1.50E-06	2.30E-06	NS	NA	NA	NS	NA	NA
2nd '11	23-Jun-11	2.40E-07	1.40E-07	1.80E-07	<2.9E-06	1.70E-06	2.90E-06	NS	NA	NA	NS	NA	NA
3rd '11	27-Jul-11	4.90E-06	6.30E-07	3.20E-07	9.50E-05	2.10E-06	2.50E-06	NS	NA	NA	NS	NA	NA
4th '11	23-Nov-11	7.20E-06	7.50E-07	2.90E-07	8.80E-08	4.30E-07	7.20E-07	NS	NA	NA	NS	NA	NA
2nd '12	11-Apr-12	4.40E-05	1.90E-06	3.60E-07	2.10E-04	2.00E-06	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '12	11-Jun-12	2.20E-05	8.40E-07	1.10E-07	1.30E-04	7.60E-06	5.90E-06	NS	NA	NA	NS	NA	NA
4th '12	06-Nov-12	3.10E-05	4.82E-07	4.63E-08	4.26E-04	3.72E-06	6.52E-07	NS	NA	NA	NS	NA	NA
2nd '13	30-Apr-13	1.14E-04	1.74E-06	5.34E-07	2.65E-04	4.41E-06	5.37E-06	NS	NA	NA	NS	NA	NA
3rd '13	20-Jun-13	8.91E-05	2.16E-06	1.42E-06	1.42E-04	3.68E-06	6.17E-06	NS	NA	NA	NS	NA	NA
4th '13	14-Nov-13	1.37E-04	3.87E-06	4.71E-06	5.33E-04	1.45E-05	2.27E-05	NS	NA	NA	NS	NA	NA
2nd '14	16-Apr-14	9.90E-05	1.01E-06	3.91E-07	1.99E-04	3.14E-06	3.38E-06	NS	NA	NA	NS	NA	NA
3rd '14	10-Jun-14	2.60E-05	8.46E-07	9.19E-07	5.60E-05	3.08E-06	7.12E-06	NS	NA	NA	NS	NA	NA
4th '14	25-Nov-14	2.98E-05	1.23E-06	1.30E-06	2.46E-04	5.38E-06	7.41E-06	NS	NA	NA	NS	NA	NA
1st '15	21-Apr-15	7.15E-04	8.01E-06	3.50E-06	5.85E-04	1.27E-05	2.51E-05	6.36E-04	2.70E-05	8.62E-06	1.01E-04	3.06E-06	4.04E-07
2nd '15	15-Jun-15	1.52E-04	3.48E-06	2.60E-06	4.49E-04	1.50E-05	3.33E-05	3.11E-04	1.58E-05	6.45E-06	4.19E-05	2.67E-06	6.78E-07

*2nd quarter of 1996 San Juan County, Utah, was declared a disaster area due to drought, no samples were collected during this period

† NRC Regulatory Guide does not specify a Lower Limit of Detection (LLD) for Thorium 232 in vegetation (or any matrix). The LLD for Thorium 230 was used.

NS = Not Sampled

NA = Not Applicable


WHITE MESA MILL - NORTHEAST OF MILL Radionuclide Concentrations in Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
01-Aug-81
01-Jun-82
01-Apr-83
01-Feb-84
01-Dec-84
01-Oct-85
01-Aug-86
01-Jun-87
01-Apr-88
01-Feb-89
01-Dec-89
01-Oct-90
01-Aug-91
01-Jun-92
01-Apr-93
01-Feb-94
01-Dec-94
01-Oct-95
01-Aug-96
01-Jun-97
01-Apr-98
01-Feb-99
01-Dec-99
01-Oct-00
01-Aug-01
01-Jun-02
01-Apr-03
01-Feb-04
01-Dec-04
01-Oct-05
01-Aug-06
01-Jun-07
01-Apr-08
01-Feb-09
01-Dec-09
01-Oct-10
01-Aug-11
01-Jun-12
01-Apr-13
01-Feb-14
01-Dec-14
Ra-226
Pb-210
U-NAT
TH-232

WHITE MESA MILL
FORAGE RADIONUCLIDE DATA
NORTHWEST OF MILL

SAMPLED QTR.	SAMPLED DATE	Ra-226	Ra-226	LLD	Pb-210	Pb-210	LLD	U-NAT	U-NAT	LLD	Th-232	Th-232	LLD
		VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (5.0E-08)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (1.0E-06)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)†
3rd '81	27-Aug-81	2.73E-03	5.00E-05	5.00E-08	7.10E-03	3.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
4th '81	20-Oct-81	2.00E-04	1.00E-05	5.00E-08	8.30E-04	5.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '82	15-Apr-82	1.04E-04	9.00E-06	7.00E-06	6.40E-04	5.00E-05	4.00E-05	NS	NA	NA	NS	NA	NA
3rd '82	01-Jul-82	2.00E-05	1.00E-05	5.00E-08	2.20E-04	9.00E-05	1.00E-07	NS	NA	NA	NS	NA	NA
4th '82	30-Nov-82	2.36E-06	9.50E-07	1.00E-06	8.00E-05	1.00E-05	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '83	13-Apr-83	8.58E-05	1.36E-05	2.00E-08	3.53E-04	1.90E-05	1.00E-05	NS	NA	NA	NS	NA	NA
3rd '83	01-Jul-83	1.19E-04	1.10E-05	5.00E-06	1.58E-04	1.30E-05	1.00E-05	NS	NA	NA	NS	NA	NA
4th '83	30-Jan-84	9.78E-05	7.00E-06	2.00E-06	2.16E-03	3.40E-04	3.00E-04	NS	NA	NA	NS	NA	NA
2nd '84	28-Jun-84	2.08E-04	1.00E-05	3.00E-09	1.60E-03	7.00E-05	3.00E-08	NS	NA	NA	NS	NA	NA
4th '84	14-Nov-84	6.05E-04	1.64E-04	2.00E-07	2.58E-03	1.10E-04	3.00E-08	NS	NA	NA	NS	NA	NA
2nd '85	27-Mar-85	1.10E-04	8.00E-06	3.00E-06	8.63E-04	4.20E-05	3.00E-05	NS	NA	NA	NS	NA	NA
3rd '85	15-Jul-85	6.10E-05	6.00E-06	2.00E-06	5.40E-04	5.00E-05	5.00E-05	NS	NA	NA	NS	NA	NA
4th '85	09-Oct-85	1.07E-04	6.00E-06	2.00E-06	3.80E-04	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '86	24-Mar-86	8.86E-04	1.80E-05	2.00E-06	4.40E-03	1.90E-04	3.00E-05	NS	NA	NA	NS	NA	NA
3rd '86	10-Jul-86	6.66E-04	1.80E-05	3.00E-06	4.78E-03	2.10E-04	6.00E-05	NS	NA	NA	NS	NA	NA
4th '86	18-Dec-86	5.20E-04	1.00E-04	3.00E-06	1.70E-03	1.00E-04	6.00E-05	NS	NA	NA	NS	NA	NA
2nd '87	20-Apr-87	4.10E-04	1.00E-04	5.00E-08	1.60E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '87	05-Jun-87	1.60E-04	3.00E-05	5.00E-08	5.50E-04	4.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '87	22-Dec-87	3.60E-04	5.00E-05	5.00E-08	1.80E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '88	19-Apr-88	2.60E-04	5.00E-05	5.00E-08	1.90E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '88	28-Jul-88	3.10E-05	1.90E-05	5.00E-08	1.60E-04	4.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '89	07-Apr-89	6.20E-04	5.00E-05	***	1.70E-03	1.00E-04	***	NS	NA	NA	NS	NA	NA
3rd '89	06-Jun-89	3.40E-04	3.00E-05	***	7.40E-04	3.00E-05	***	NS	NA	NA	NS	NA	NA
4th '89	07-Nov-89	5.10E-04	6.00E-05	7.00E-06	1.00E-03	7.00E-05	1.40E-05	NS	NA	NA	NS	NA	NA
1st '90	17-Apr-90	3.60E-04	3.00E-05	4.00E-06	4.80E-04	2.00E-05	2.20E-05	NS	NA	NA	NS	NA	NA
2nd '90	20-Jun-90	1.70E-04	2.00E-05	5.00E-08	3.20E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '90	17-Oct-90	8.80E-05	1.60E-05	5.00E-08	2.90E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '91	10-Apr-91	3.00E-04	3.00E-05	5.00E-06	4.10E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '91	11-Jun-91	3.10E-04	3.00E-05	2.00E-07	4.70E-04	2.00E-05	2.00E-07	NS	NA	NA	NS	NA	NA
3rd '91	20-Nov-91	5.00E-04	4.00E-05	5.00E-08	1.50E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
1st '92	22-Apr-92	2.00E-05	8.00E-06	2.00E-06	9.60E-05	1.40E-05	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '92	10-Jun-92	6.50E-06	6.00E-06	2.00E-06	1.20E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '92	10-Jun-92	1.20E-04	4.00E-05	3.00E-06	1.21E-03	8.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '93	13-Apr-93	1.80E-05	1.70E-05	3.00E-06	2.10E-04	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '93	26-Jun-93	5.20E-05	1.90E-05	3.00E-06	1.70E-05	3.60E-05	2.00E-05	NS	NA	NA	NS	NA	NA
3rd '93	12-Oct-93	5.10E-05	2.30E-05	3.00E-06	7.10E-04	6.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '94	11-May-94	1.20E-04	1.00E-05	3.00E-05	9.80E-04	1.60E-04	2.00E-04	NS	NA	NA	NS	NA	NA
2nd '94	19-Jul-94	3.73E-05	1.60E-06	8.40E-08	7.80E-05	7.10E-06	4.20E-07	NS	NA	NA	NS	NA	NA
3rd '94	28-Nov-94	2.40E-04	1.50E-05	1.70E-07	2.60E-04	1.30E-05	8.30E-07	NS	NA	NA	NS	NA	NA
1st '95	11-Apr-95	8.40E-05	6.10E-06	1.50E-07	1.20E-04	1.10E-05	7.50E-05	NS	NA	NA	NS	NA	NA
2nd '95	06-Jul-95	1.90E-05	1.50E-06	1.40E-07	4.50E-05	4.30E-06	7.20E-07	NS	NA	NA	NS	NA	NA
3rd '95	15-Nov-95	1.20E-04	6.80E-06	1.40E-07	1.00E-05	5.80E-06	7.10E-07	NS	NA	NA	NS	NA	NA
1st '96	23-Apr-96	8.30E-05	3.30E-06	1.90E-07	6.80E-05	6.30E-06	1.80E-07	NS	NA	NA	NS	NA	NA
2nd '96 *	31-Jul-96							NS	NA	NA	NS	NA	NA
3rd '96	14-Nov-96	3.60E-05	2.50E-06	1.60E-07	8.50E-05	5.60E-06	8.40E-07	NS	NA	NA	NS	NA	NA
1st '97	21-Apr-97	3.30E-05	2.30E-06	1.70E-07	4.40E-05	4.80E-06	8.40E-07	NS	NA	NA	NS	NA	NA
3rd '97	05-Sep-97	5.40E-06	3.50E-07	1.56E-07	3.20E-05	9.00E-07	7.83E-07	NS	NA	NA	NS	NA	NA
4th '97	20-Nov-97	8.90E-06	7.20E-07	5.40E-07	3.40E-04	6.70E-06	1.10E-07	NS	NA	NA	NS	NA	NA
1st '98	23-Mar-98	<9.20E-05	9.20E-05	9.20E-05	<4.60E-04	4.60E-04	4.60E-04	NS	NA	NA	NS	NA	NA
2nd '98	16-Jun-98	< 6.50E-08	6.50E-08	6.50E-08	<3.20E-07	3.20E-07	3.20E-07	NS	NA	NA	NS	NA	NA
4th '98	05-Nov-98	4.20E-05	1.00E-06	1.10E-07	1.70E-04	1.00E-05	5.50E-07	NS	NA	NA	NS	NA	NA
2nd '99	15-Apr-99	6.20E-05	1.00E-06	1.00E-07	1.40E-04	7.00E-06	1.00E-07	NS	NA	NA	NS	NA	NA
3rd '99	07-Jul-99	5.45E-05	1.40E-06	8.30E-08	9.20E-05	4.00E-06	4.20E-07	NS	NA	NA	NS	NA	NA
4th '99	02-Dec-99	1.10E-04	3.00E-06	2.20E-07	2.80E-05	1.00E-06	1.10E-06	NS	NA	NA	NS	NA	NA
2nd '00	21-Apr-00	3.70E-05	1.00E-06	2.40E-07	2.70E-04	1.00E-05	1.20E-06	NS	NA	NA	NS	NA	NA
2nd '00	22-Jun-00	2.90E-05	1.00E-06	3.30E-07	2.80E-04	2.00E-05	1.70E-06	NS	NA	NA	NS	NA	NA
4th '00	21-Dec-00	2.30E-06	1.40E-06	3.70E-07	3.30E-04	5.00E-05	1.90E-06	NS	NA	NA	NS	NA	NA
1st '01	30-Apr-01	2.10E-05	1.00E-06	1.50E-07	<7.6E-07	N/A	7.60E-07	NS	NA	NA	NS	NA	NA
2nd '01	14-Jun-01	1.30E-06	4.00E-08	1.20E-07	1.80E-06	3.00E-08	5.90E-07	NS	NA	NA	NS	NA	NA
4th '01	17-Dec-01	3.70E-05	7.67E-07	8.30E-08	6.72E-05	2.62E-06	6.00E-07	NS	NA	NA	NS	NA	NA
1st '02	07-May-02	4.90E-05	2.40E-06	7.60E-07	1.28E-04	5.61E-06	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '02	07-Jul-02	8.88E-05	4.32E-06	7.60E-07	8.33E-05	4.32E-06	1.00E-05	NS	NA	NA	NS	NA	NA
4th '02	15-Dec-02	1.50E-04	6.20E-06	7.60E-07	3.16E-04	1.07E-05	1.00E-05	NS	NA	NA	NS	NA	NA
1st '03	21-Mar-03	5.00E-05	3.40E-06	2.71E-06	<4.2e-6		4.20E-06	NS	NA	NA	NS	NA	NA
2nd '03	10-Jun-03	5.60E-05	2.00E-06	4.10E-07	1.88E-04	5.14E-06	8.20E-08	NS	NA	NA	NS	NA	NA

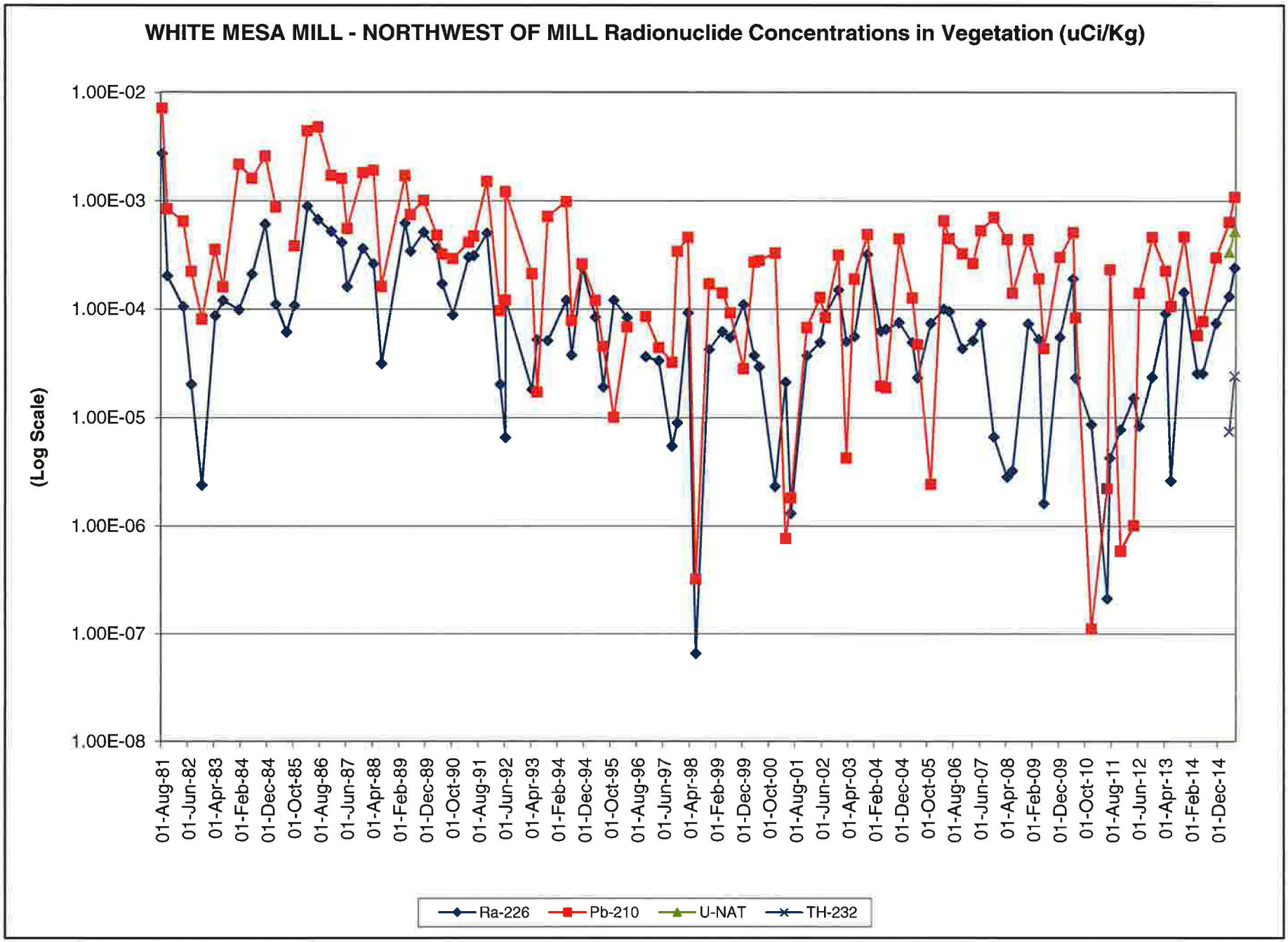
4th '03	20-Nov-03	3.20E-04	8.20E-06	1.70E-07	4.89E-04	1.25E-05	8.30E-07	NS	NA	NA	NS	NA	NA
1st '04	08-Apr-04	6.29E-05	4.10E-06	2.00E-07	1.94E-05	4.00E-06	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '04	12-Jun-04	6.51E-05	3.40E-06	1.30E-07	1.87E-05	3.90E-06	6.50E-07	NS	NA	NA	NS	NA	NA
4th '04	30-Nov-04	7.50E-05	4.60E-06	2.00E-08	4.45E-04	1.40E-05	3.00E-07	NS	NA	NA	NS	NA	NA
1st '05	21-Apr-05	4.90E-05	2.70E-06	1.30E-07	1.27E-04	4.80E-06	6.50E-07	NS	NA	NA	NS	NA	NA
2nd '05	13-Jun-05	2.30E-05	2.10E-06	1.50E-07	4.70E-05	5.10E-06	7.60E-07	NS	NA	NA	NS	NA	NA
4th '05	10-Nov-05	7.40E-05	3.50E-06	1.20E-10	2.40E-06	8.10E-08	5.80E-10	NS	NA	NA	NS	NA	NA
1st '06	03-Apr-06	1.00E-04	6.00E-06	5.00E-08	6.54E-04	1.50E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '06	16-Jun-06	9.50E-05	5.90E-06	5.00E-08	4.48E-04	1.40E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '06	28-Nov-06	8.13E-05	4.10E-06	2.20E-07	3.25E-04	1.12E-06	1.00E-05	NS	NA	NA	NS	NA	NA
1st '07	30-Mar-07	4.30E-05	2.60E-06	1.70E-07	2.64E-04	7.20E-06	8.60E-07	NS	NA	NA	NS	NA	NA
2nd '07	1-Jun-07	5.10E-05	3.20E-06	2.30E-07	5.30E-04	1.40E-06	1.20E-06	NS	NA	NA	NS	NA	NA
4th '07	23-Nov-07	7.30E-05	6.60E-06	5.00E-08	7.00E-04	2.20E-05	1.10E-06	NS	NA	NA	NS	NA	NA
1st '08	22-Apr-08	2.80E-06	2.80E-06	7.20E-07	4.40E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '08	18-Jun-08	3.20E-06	3.30E-06	1.80E-06	1.40E-04	3.30E-05	5.50E-05	NS	NA	NA	NS	NA	NA
4th '08	12-Dec-08	7.30E-05	3.20E-06	7.40E-07	4.40E-04	2.50E-05	3.20E-05	NS	NA	NA	NS	NA	NA
1st '09	28-Apr-09	5.25E-05	3.60E-06	1.10E-06	1.90E-04	1.50E-05	2.20E-05	NS	NA	NA	NS	NA	NA
2nd '09	17-Jun-09	2.30E-05	1.60E-05	5.20E-07	4.30E-05	1.00E-05	1.70E-05	NS	NA	NA	NS	NA	NA
4th '09	18-Dec-09	5.50E-05	3.50E-06		3.00E-04	1.10E-05		NS	NA	NA	NS	NA	NA
1st '10	13-May-10	1.90E-04	6.10E-06	9.40E-07	5.10E-04	2.40E-05	3.10E-05	NS	NA	NA	NS	NA	NA
2nd '10	18-Jun-10	2.30E-05	2.00E-06	7.70E-07	8.30E-05	1.80E-05	2.90E-05	NS	NA	NA	NS	NA	NA
4th '10	20-Dec-10	8.60E-06	9.10E-07	3.90E-07	1.10E-07	6.80E-07	1.10E-06	NS	NA	NA	NS	NA	NA
2nd '11	23-Jun-11	2.10E-07	1.20E-07	1.40E-07	<2.2E-06	1.30E-06	2.20E-06	NS	NA	NA	NS	NA	NA
3rd '11	28-Jul-11	4.20E-06	5.40E-07	2.70E-07	2.30E-04	2.50E-06	2.30E-06	NS	NA	NA	NS	NA	NA
4th '11	23-Nov-11	7.70E-06	6.80E-07	2.30E-07	<5.8E-08	3.40E-07	5.80E-07	NS	NA	NA	NS	NA	NA
2nd '12	11-Apr-12	1.50E-05	9.50E-07	2.60E-07	<7.0E-07	6.00E-07	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '12	11-Jun-12	8.30E-06	5.40E-07	1.20E-07	1.40E-04	8.30E-06	6.50E-06	NS	NA	NA	NS	NA	NA
4th '12	06-Nov-12	2.34E-05	4.10E-07	7.71E-08	4.59E-04	3.83E-06	6.18E-07	NS	NA	NA	NS	NA	NA
2nd'13	30-Apr-13	9.04E-05	1.68E-06	8.58E-07	2.24E-04	4.46E-06	4.68E-06	NS	NA	NA	NS	NA	NA
3rd '13	20-Jun-13	2.58E-06	9.59E-07	8.06E-07	1.06E-04	2.30E-06	3.28E-06	NS	NA	NA	NS	NA	NA
4th '13	14-Nov-13	1.43E-04	3.70E-06	2.17E-06	4.65E-04	1.17E-05	1.80E-05	NS	NA	NA	NS	NA	NA
2nd '14	16-Apr-14	2.53E-05	6.29E-07	5.51E-07	5.70E-05	2.21E-06	4.52E-06	NS	NA	NA	NS	NA	NA
3rd '14	10-Jun-14	2.53E-05	5.55E-07	5.77E-07	7.68E-05	2.08E-06	3.66E-06	NS	NA	NA	NS	NA	NA
4th '14	25-Nov-14	7.41E-05	1.90E-06	1.53E-06	2.98E-04	6.48E-06	1.06E-05	NS	NA	NA	NS	NA	NA
1st '15	21-Apr-15	1.31E-04	4.21E-06	5.92E-06	6.33E-04	1.17E-05	1.45E-05	3.35E-04	2.41E-05	1.17E-05	7.35E-06	8.57E-07	7.82E-07
2nd '15	15-Jun-15	2.39E-04	4.43E-06	3.45E-06	1.08E-03	2.02E-05	3.25E-05	5.24E-04	2.41E-05	9.70E-06	2.38E-05	2.12E-06	7.36E-07

*2nd quarter of 1996 San Juan County, Utah, was declared a disaster area due to drought, no samples were collected during this period

† NRC Regulatory Guide does not specify a Lower Limit of Detection (LLD) for Thorium 232 in vegetation (or any matrix). The LLD for Thorium 230 was used.

NS = Not Sampled

NA = Not Applicable


WHITE MESA MILL - NORTHWEST OF MILL Radionuclide Concentrations in Vegetation (uCi/Kg)
(Log Scale)
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
01-Aug-81
01-Jun-82
01-Apr-83
01-Feb-84
01-Dec-84
01-Oct-85
01-Aug-86
01-Jun-87
01-Apr-88
01-Feb-89
01-Dec-89
01-Oct-90
01-Aug-91
01-Jun-92
01-Apr-93
01-Feb-94
01-Dec-94
01-Oct-95
01-Aug-96
01-Jun-97
01-Apr-98
01-Feb-99
01-Dec-99
01-Oct-00
01-Aug-01
01-Jun-02
01-Apr-03
01-Feb-04
01-Dec-04
01-Oct-05
01-Aug-06
01-Jun-07
01-Apr-08
01-Feb-09
01-Dec-09
01-Oct-10
01-Aug-11
01-Jun-12
01-Apr-13
01-Feb-14
01-Dec-14
Ra-226
Pb-210
U-NAT
TH-232

WHITE MESA MILL
FORAGE RADIONUCLIDE DATA
SOUTHWEST OF MILL

SAMPLED QTR.	SAMPLED DATE	Ra-226	Ra-226	LLD	Pb-210	Pb-210	LLD	U-NAT	U-NAT	LLD	Th-232	Th-232	LLD
		VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (5.0E-08)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (1.0E-06)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)	VALUE (uCi/Kg)	ERROR (uCi/Kg)	uCi/Kg (2.0E-07)†
3rd '81	27-Aug-81	9.50E-04	2.00E-05	5.00E-08	1.50E-04	1.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '81	20-Oct-81	3.00E-05	3.00E-06	5.00E-08	1.50E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '82	15-Apr-82	1.37E-05	3.00E-06	3.00E-06	3.80E-04	4.00E-05	4.00E-05	NS	NA	NA	NS	NA	NA
3rd '82	01-Jul-82	3.40E-04	2.00E-05	5.00E-08	3.68E-03	2.70E-04	1.00E-07	NS	NA	NA	NS	NA	NA
4th '82	30-Nov-82	1.75E-05	3.00E-06	2.00E-06	7.92E-04	4.00E-06	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '83	13-Apr-83	7.13E-04	7.30E-05	9.00E-08	2.51E-03	3.00E-04	3.00E-04	NS	NA	NA	NS	NA	NA
3rd '83	01-Jul-83	5.39E-05	4.50E-06	2.00E-06	6.88E-04	4.30E-05	4.00E-05	NS	NA	NA	NS	NA	NA
4th '83	30-Jan-84	6.40E-05	7.00E-06	4.00E-06	1.20E-03	1.00E-04	4.00E-05	NS	NA	NA	NS	NA	NA
2nd '84	28-Jun-84	8.27E-05	6.30E-06	3.00E-09	1.80E-03	1.00E-04	9.00E-08	NS	NA	NA	NS	NA	NA
4th '84	14-Nov-84	2.72E-04	1.48E-04	2.00E-07	4.70E-03	7.20E-04	3.00E-07	NS	NA	NA	NS	NA	NA
2nd '85	27-Mar-85	4.73E-04	1.60E-07	3.00E-06	7.07E-04	3.60E-05	3.00E-05	NS	NA	NA	NS	NA	NA
3rd '85	15-Jul-85	6.60E-05	7.00E-06	4.00E-06	4.90E-04	3.00E-05	3.00E-05	NS	NA	NA	NS	NA	NA
4th '85	09-Oct-85	2.83E-04	2.00E-05	7.00E-06	1.50E-03	1.00E-04	7.00E-05	NS	NA	NA	NS	NA	NA
2nd '86	24-Mar-86	1.57E-04	1.00E-05	4.00E-06	4.14E-03	1.80E-04	3.00E-05	NS	NA	NA	NS	NA	NA
3rd '86	10-Jul-86	3.78E-04	1.00E-05	2.00E-06	1.65E-02	7.00E-04	1.00E-04	NS	NA	NA	NS	NA	NA
4th '86	18-Dec-86	2.60E-04	2.00E-05	2.00E-06	1.70E-03	1.00E-04	1.00E-04	NS	NA	NA	NS	NA	NA
2nd '87	20-Apr-87	4.10E-04	7.00E-05	5.00E-08	2.20E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '87	05-Jun-87	2.90E-04	4.00E-05	5.00E-08	7.50E-04	5.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
4th '87	22-Dec-87	1.80E-04	3.00E-05	5.00E-08	2.40E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '88	19-Apr-88	2.30E-04	5.00E-05	5.00E-08	2.90E-03	1.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '88	28-Jul-88	1.50E-04	3.00E-05	5.00E-08	4.30E-03	2.00E-04	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '89	07-Apr-89	3.10E-04	4.00E-05	***	4.20E-03	1.00E-04	***	NS	NA	NA	NS	NA	NA
3rd '89	06-Jun-89	1.30E-04	2.00E-05	***	1.50E-03	1.00E-04	***	NS	NA	NA	NS	NA	NA
4th '89	07-Nov-89	4.30E-04	5.00E-05	1.40E-05	3.50E-03	1.40E-04	2.70E-05	NS	NA	NA	NS	NA	NA
1st '90	17-Apr-90	2.50E-04	3.00E-05	5.00E-06	2.39E-03	5.00E-05	2.50E-05	NS	NA	NA	NS	NA	NA
2nd '90	20-Jun-90	1.10E-04	2.00E-05	5.00E-08	6.60E-04	3.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '90	17-Oct-90	6.10E-05	1.40E-05	5.00E-08	6.10E-04	3.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '91	10-Apr-91	3.40E-05	1.10E-05	5.00E-06	2.20E-04	1.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '91	11-Jun-91	8.00E-05	6.00E-06	2.00E-07	1.20E-04	1.00E-05	2.00E-07	NS	NA	NA	NS	NA	NA
3rd '91	20-Nov-91	6.50E-05	1.40E-05	5.00E-08	9.10E-04	5.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '92	22-Apr-92	1.60E-05	7.00E-06	2.00E-06	3.20E-04	2.00E-05	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '92	10-Jun-92	1.90E-05	1.00E-05	2.00E-07	2.20E-04	2.00E-05	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '92	10-Jun-92	1.60E-05	1.80E-05	3.00E-06	7.60E-04	6.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '93	13-Apr-93	2.60E-05	2.00E-05	3.00E-06	3.40E-04	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
2nd '93	26-Jun-93	3.00E-05	1.40E-05	3.00E-06	0.00E+00	3.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
3rd '93	12-Oct-93	3.10E-05	1.60E-05	3.00E-06	4.20E-04	6.00E-05	2.00E-05	NS	NA	NA	NS	NA	NA
1st '94	11-May-94	2.00E-05	5.00E-06	3.00E-05	3.90E-04	8.00E-05	2.00E-04	NS	NA	NA	NS	NA	NA
2nd '94	19-Jul-94	1.75E-05	1.70E-06	7.60E-08	1.30E-04	7.80E-06	3.80E-07	NS	NA	NA	NS	NA	NA
3rd '94	28-Nov-94	1.00E-04	9.00E-06	1.50E-07	2.60E-04	1.20E-05	7.40E-07	NS	NA	NA	NS	NA	NA
1st '95	11-Apr-95	1.70E-05	1.50E-06	1.60E-07	1.60E-04	1.50E-05	8.10E-07	NS	NA	NA	NS	NA	NA
2nd '95	06-Jul-95	6.40E-06	6.00E-07	1.40E-07	4.40E-05	4.20E-06	7.00E-07	NS	NA	NA	NS	NA	NA
3rd '95	15-Nov-95	2.30E-05	2.20E-06	1.70E-07	6.60E-05	9.60E-06	8.30E-07	NS	NA	NA	NS	NA	NA
1st '96	23-Apr-96	4.20E-05	2.20E-06	1.70E-07	1.00E-04	6.70E-06	1.80E-07	NS	NA	NA	NS	NA	NA
2nd '96 *	31-Jul-96							NS	NA	NA	NS	NA	NA
3rd '96	14-Nov-96	2.10E-05	2.00E-06	1.60E-07	1.90E-04	7.30E-06	8.20E-07	NS	NA	NA	NS	NA	NA
1st '97	21-Apr-97	5.50E-06	4.20E-07	1.40E-07	3.30E-05	3.90E-06	7.00E-07	NS	NA	NA	NS	NA	NA
3rd '97	05-Sep-97	5.30E-06	3.20E-07	1.26E-07	1.90E-05	6.90E-07	6.34E-07	NS	NA	NA	NS	NA	NA
4th '97	20-Nov-97	2.50E-05	9.50E-07	5.90E-07	1.30E-04	4.70E-06	1.20E-07	NS	NA	NA	NS	NA	NA
1st '98	23-Mar-98	<7.90E-05	7.90E-05	7.90E-05	<3.90E-04	3.90E-04	3.90E-04	NS	NA	NA	NS	NA	NA
2nd '98	16-Jun-98	3.60E-07	1.40E-07	3.30E-08	<1.7E-07	1.70E-07	1.70E-07	NS	NA	NA	NS	NA	NA
4th '98	05-Nov-98	4.30E-05	1.00E-06	7.60E-08	2.50E-04	1.00E-05	3.80E-07	NS	NA	NA	NS	NA	NA
2nd '99	15-Apr-99	2.40E-05	1.00E-06	1.20E-07	1.70E-04	8.00E-06	6.20E-07	NS	NA	NA	NS	NA	NA
3rd '99	07-Jul-99	2.23E-05	8.60E-07	1.20E-07	2.30E-04	7.00E-06	5.90E-07	NS	NA	NA	NS	NA	NA
4th '99	02-Dec-99	1.50E-04	3.00E-06	2.00E-07	1.70E-05	1.00E-06	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '00	21-Apr-00	1.00E-04	2.00E-06	1.20E-07	1.10E-04	7.00E-06	6.10E-07	NS	NA	NA	NS	NA	NA
2nd '00	22-Jun-00	1.30E-06	1.00E-07	2.40E-07	2.00E-04	1.00E-05	1.20E-06	NS	NA	NA	NS	NA	NA
4th '00	21-Dec-00	1.20E-06	9.00E-07	2.40E-07	1.20E-04	3.00E-05	1.20E-06	NS	NA	NA	NS	NA	NA
1st '01	30-Apr-01	1.80E-06	1.00E-07	1.70E-07	<8.3E-07	N/A	8.30E-07	NS	NA	NA	NS	NA	NA
2nd '01	14-Jun-01	2.60E-06	2.00E-07	9.90E-08	1.10E-06	2.00E-08	5.00E-07	NS	NA	NA	NS	NA	NA
4th '01	17-Dec-01	2.63E-06	4.60E-05	1.20E-07	9.40E-05	3.72E-06	6.00E-07	NS	NA	NA	NS	NA	NA
1st '02	07-May-02	3.50E-05	2.20E-06	7.60E-07	1.36E-04	5.61E-06	1.00E-05	NS	NA	NA	NS	NA	NA
2nd '02	07-Jul-02	4.02E-05	2.34E-06	7.60E-07	7.04E-05	4.11E-06	1.00E-05	NS	NA	NA	NS	NA	NA
4th '02	15-Dec-02	8.10E-05	3.90E-06	7.60E-07	2.87E-04	8.54E-06	1.00E-05	NS	NA	NA	NS	NA	NA
1st '03	21-Mar-03	3.70E-05	2.60E-06	2.41E-06	2.69E-05	2.01E-06	3.73E-06	NS	NA	NA	NS	NA	NA
2nd '03	10-Jun-03	1.30E-05	1.00E-06	5.20E-07	<1.00E-07		1.00E-07	NS	NA	NA	NS	NA	NA
4th '03	20-Nov-03	1.60E-04	1.30E-05	1.20E-07	1.42E-04	6.42E-06	5.90E-07	NS	NA	NA	NS	NA	NA

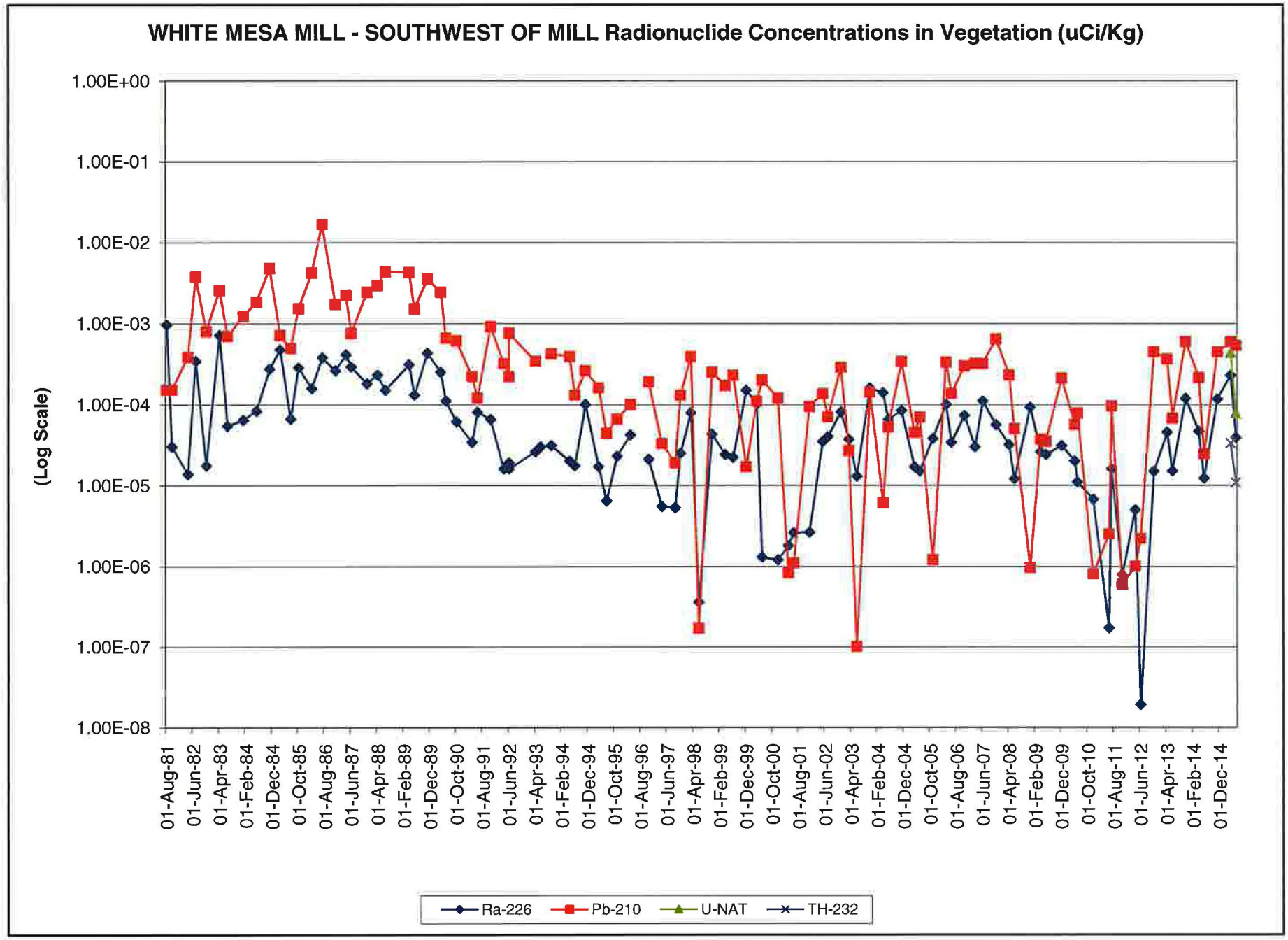
1st '04	08-Apr-04	1.40E-04	7.70E-06	1.10E-07	6.10E-06	2.70E-06	5.50E-07	NS	NA	NA	NS	NA	NA
2nd '04	12-Jun-04	6.51E-05	3.20E-06	1.50E-07	5.27E-05	4.90E-06	7.60E-07	NS	NA	NA	NS	NA	NA
4th '04	30-Nov-04	8.40E-05	5.70E-06	3.00E-08	3.39E-04	1.60E-05	3.00E-07	NS	NA	NA	NS	NA	NA
1st '05	21-Apr-05	1.70E-05	1.60E-06	1.30E-07	4.50E-05	3.50E-06	6.50E-07	NS	NA	NA	NS	NA	NA
2nd '05	13-Jun-05	1.50E-05	1.60E-06	1.40E-07	7.00E-05	5.10E-06	6.90E-07	NS	NA	NA	NS	NA	NA
4th '05	10-Nov-05	3.80E-05	2.10E-06	8.60E-10	1.20E-06	4.80E-08	4.30E-10	NS	NA	NA	NS	NA	NA
1st '06	03-Apr-06	1.00E-04	6.00E-06	5.00E-08	3.30E-04	1.10E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '06	16-Jun-06	3.40E-05	2.50E-06	5.00E-08	1.37E-04	6.00E-06	1.00E-06	NS	NA	NA	NS	NA	NA
4th '06	28-Nov-06	7.31E-05	3.20E-06	1.60E-07	2.98E-04	8.50E-06	8.20E-07	NS	NA	NA	NS	NA	NA
1st '07	30-Mar-07	3.00E-05	2.20E-06	1.70E-07	3.20E-04	7.90E-06	8.40E-07	NS	NA	NA	NS	NA	NA
2nd '07	1-Jun-07	1.10E-04	4.60E-06	2.3-07	3.20E-04	1.10E-05	1.10E-06	NS	NA	NA	NS	NA	NA
4th '07	23-Nov-07	5.60E-05	5.20E-06	5.00E-08	6.40E-04	1.90E-05	1.00E-06	NS	NA	NA	NS	NA	NA
1st '08	22-Apr-08	3.20E-05	2.30E-06	7.20E-07	2.30E-04	1.50E-05	1.00E-06	NS	NA	NA	NS	NA	NA
2nd '08	18-Jun-08	1.25E-05	2.20E-06	1.80E-06	5.00E-05	3.00E-05	4.80E-03	NS	NA	NA	NS	NA	NA
4th '08	12-Dec-08	9.20E-05	4.10E-06	9.60E-07	4.10E-04	3.00E-05	4.00E-05	NS	NA	NA	NS	NA	NA
1st '09	28-Apr-09	2.60E-05	2.90E-06	1.40E-06	3.70E-05	1.50E-06	2.50E-05	NS	NA	NA	NS	NA	NA
2nd '09	17-Jun-09	2.40E-05	1.40E-06	3.90E-07	3.50E-05	7.90E-06	1.30E-05	NS	NA	NA	NS	NA	NA
4th '09	18-Dec-09	3.10E-05	2.30E-06		2.10E-04	8.40E-06		NS	NA	NA	NS	NA	NA
1st '10	13-May-10	2.00E-05	2.10E-06	9.40E-07	5.60E-05	1.50E-05	2.40E-05	NS	NA	NA	NS	NA	NA
2nd '10	18-Jun-10	1.10E-05	1.30E-06	6.60E-07	7.80E-05	1.60E-05	2.50E-05	NS	NA	NA	NS	NA	NA
4th '10	20-Dec-10	6.70E-06	9.10E-07	4.80E-07	8.00E-07	7.90E-07	1.30E-06	NS	NA	NA	NS	NA	NA
2nd '11	23-Jun-11	<1.7E-07	6.90E-08	1.70E-07	<2.5E-06	1.50E-06	2.50E-06	NS	NA	NA	NS	NA	NA
3rd '11	27-Jul-11	1.60E-05	1.00E-06	2.60E-07	9.50E-05	1.60E-06	1.70E-06	NS	NA	NA	NS	NA	NA
4th '11	23-Nov-11	7.80E-07	2.50E-07	2.30E-07	<5.9E-07	3.50E-07	5.90E-07	NS	NA	NA	NS	NA	NA
2nd '12	11-Apr-12	5.00E-06	6.00E-07	3.00E-07	<7.0E-07	7.00E-07	1.00E-06	NS	NA	NA	NS	NA	NA
3rd '12	11-Jun-12	1.90E-08	6.20E-08	1.10E-07	<2.5E-07	1.30E-06	2.20E-06	NS	NA	NA	NS	NA	NA
4th '12	06-Nov-12	1.49E-05	3.41E-07	4.25E-08	4.45E-04	4.01E-06	8.57E-07	NS	NA	NA	NS	NA	NA
2nd '13	30-Apr-13	4.50E-05	1.19E-06	5.39E-07	3.62E-04	6.30E-06	9.90E-06	NS	NA	NA	NS	NA	NA
3rd '13	20-Jun-13	1.51E-05	1.06E-06	1.96E-06	6.71E-05	2.93E-06	6.24E-06	NS	NA	NA	NS	NA	NA
4th '13	14-Nov-13	1.18E-04	3.39E-06	2.97E-06	5.92E-04	1.27E-05	1.62E-05	NS	NA	NA	NS	NA	NA
2nd '14	16-Apr-14	4.65E-05	1.08E-06	7.35E-07	2.13E-04	5.93E-06	1.31E-05	NS	NA	NA	NS	NA	NA
3rd '14	10-Jun-14	1.23E-05	4.97E-07	6.97E-07	2.46E-05	1.84E-06	4.63E-06	NS	NA	NA	NS	NA	NA
4th '14	25-Nov-14	1.16E-04	2.25E-06	1.53E-06	4.43E-04	1.04E-05	1.94E-05	NS	NA	NA	NS	NA	NA
1st '15	21-Apr-15	2.27E-04	5.01E-06	4.08E-06	5.90E-04	1.16E-05	1.67E-05	4.33E-04	1.86E-05	5.14E-06	3.31E-05	2.15E-06	1.14E-06
2nd '15	15-Jun-15	3.90E-05	1.88E-06	2.71E-06	5.29E-04	1.61E-05	3.36E-05	7.78E-05	8.47E-06	6.43E-06	1.08E-05	1.28E-06	1.21E-06

*2nd quarter of 1996 San Juan County, Utah, was declared a disaster area due to drought, no samples were collected during this period

† NRC Regulatory Guide does not specify a Lower Limit of Detection (LLD) for Thorium 232 in vegetation (or any matrix). The LLD for Thorium 230 was used.

NS = Not Sampled

NA = Not Applicable


WHITE MESA MILL - SOUTHWEST OF MILL Radionuclide Concentrations in Vegetation (uCi/Kg)
(Log Scale)
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
01-Aug-81
01-Jun-82
01-Apr-83
01-Feb-84
01-Dec-84
01-Oct-85
01-Aug-86
01-Jun-87
01-Apr-88
01-Feb-89
01-Dec-89
01-Oct-90
01-Aug-91
01-Jun-92
01-Apr-93
01-Feb-94
01-Dec-94
01-Oct-95
01-Aug-96
01-Jun-97
01-Apr-98
01-Feb-99
01-Dec-99
01-Oct-00
01-Aug-01
01-Jun-02
01-Apr-03
01-Feb-04
01-Dec-04
01-Oct-05
01-Aug-06
01-Jun-07
01-Apr-08
01-Feb-09
01-Dec-09
01-Oct-10
01-Aug-11
01-Jun-12
01-Apr-13
01-Feb-14
01-Dec-14
Ra-226
Pb-210
U-NAT
TH-232

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 29, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	371719001	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 09:30		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.000585	+/-1.27E-05	2.51E-05	1.00E-06	uCi/kg		KSD1	05/26/15	0843	1477804	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		0.000715	+/-8.01E-06	3.50E-06	5.00E-08	uCi/kg		BXF1	05/28/15	0800	1480436	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1474076

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			106	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			132*	(25%-125%)

Notes:
Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	378402001	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 09:30		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		0.000101	+/-3.06E-06	4.04E-07	2.00E-07	uCi/kg		MXS2	08/19/15	1944	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		0.000281	+/-1.14E-05	3.28E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		1.64E-05	+/-3.13E-06	2.76E-06	2.00E-07	uCi/kg						
Uranium-238		0.000339	+/-1.25E-05	2.58E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			77.8	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			78.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	378402004	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 09:30		
Receive Date:	24-APR-15		
Collector:	Client		
Moisture:	85.1%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		85.1				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 29, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	371719002	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 10:00		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.000633	+/-1.17E-05	1.45E-05	1.00E-06	uCi/kg		KSD1	05/26/15	0843	1477804	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		0.000131	+/-4.21E-06	5.92E-06	5.00E-08	uCi/kg		BXF1	05/28/15	0800	1480436	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1474076

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			104	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			94.6	(25%-125%)

Notes:
Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	378402002	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 10:00		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		7.35E-06	+/-8.57E-07	7.82E-07	2.00E-07	uCi/kg		MXS2	08/18/15	2024	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		0.000171	+/-1.07E-05	3.70E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		1.21E-05	+/-3.28E-06	3.95E-06	2.00E-07	uCi/kg						
Uranium-238		0.000152	+/-1.01E-05	4.09E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			98.2	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			33.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	378402005	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 10:00		
Receive Date:	24-APR-15		
Collector:	Client		
Moisture:	62.7%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		62.7				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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Certificate of Analysis

Report Date: May 29, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	371719003	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 11:00		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.00059	+/-1.16E-05	1.67E-05	1.00E-06	uCi/kg		KSD1	05/26/15	0843	1477804	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		0.000227	+/-5.01E-06	4.08E-06	5.00E-08	uCi/kg		BXF1	05/28/15	0800	1480436	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1474076

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			107	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			104	(25%-125%)

Notes:
Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	378402003	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 11:00		
Receive Date:	24-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		3.31E-05	+/-2.15E-06	1.14E-06	2.00E-07	uCi/kg		MXS2	08/19/15	1944	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		0.000209	+/-8.11E-06	2.46E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		1.32E-05	+/-2.29E-06	1.16E-06	2.00E-07	uCi/kg						
Uranium-238		0.000211	+/-8.15E-06	1.52E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	04/24/15	1408	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			65.2	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			68.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	378402006	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	21-APR-15 11:00		
Receive Date:	24-APR-15		
Collector:	Client		
Moisture:	76.4%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		76.4				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 17, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	375288001	Client ID:	DNMI001
Matrix:	Vegetation		
Collect Date:	15-JUN-15 09:00		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.000449	+/-1.50E-05	3.33E-05	1.00E-06	uCi/kg		KSD1	07/15/15	1109	1489034	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		0.000152	+/-3.48E-06	2.60E-06	5.00E-08	uCi/kg		KSD1	07/13/15	1535	1489033	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1487632

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			76.2	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			99.5	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	378403001	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 09:00		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		4.19E-05	+/-2.67E-06	6.78E-07	2.00E-07	uCi/kg		MXS2	08/19/15	1944	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		0.000149	+/-6.95E-06	2.73E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		7.05E-06	+/-1.74E-06	1.92E-06	2.00E-07	uCi/kg						
Uranium-238		0.000155	+/-7.08E-06	1.80E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			44.3	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			67	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North East	Project:	DNMI00101
Sample ID:	378403004	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 09:00		
Receive Date:	18-JUN-15		
Collector:	Client		
Moisture:	80.6%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		80.6				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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Certificate of Analysis

Report Date: July 17, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	375288002	Client ID:	DNMI001
Matrix:	Vegetation		
Collect Date:	15-JUN-15 09:30		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.00108	+/-2.02E-05	3.25E-05	1.00E-06	uCi/kg		KSD1	07/15/15	1109	1489034	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		0.000239	+/-4.43E-06	3.45E-06	5.00E-08	uCi/kg		KSD1	07/13/15	1535	1489033	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1487632

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			70.5	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			90.4	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

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Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	378403002	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 09:30		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		2.38E-05	+/-2.12E-06	7.36E-07	2.00E-07	uCi/kg		MXS2	08/19/15	1944	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		0.00025	+/-1.06E-05	3.51E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		1.05E-05	+/-2.55E-06	3.69E-06	2.00E-07	uCi/kg						
Uranium-238		0.000263	+/-1.09E-05	2.50E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			41.1	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			54	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	North West	Project:	DNMI00101
Sample ID:	378403005	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 09:30		
Receive Date:	18-JUN-15		
Collector:	Client		
Moisture:	86.8%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		86.8				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 17, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	375288003	Client ID:	DNMI001
Matrix:	Vegetation		
Collect Date:	15-JUN-15 10:30		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Pb210, Solid "Dry Weight Corrected"												
Lead-210		0.000529	+/-1.61E-05	3.36E-05	1.00E-06	uCi/kg		KSD1	07/15/15	1109	1489034	1
GFPC, Total Alpha Radium, solid "Dry Weight Corrected"												
Total Radium		3.90E-05	+/-1.88E-06	2.71E-06	5.00E-08	uCi/kg		KSD1	07/13/15	1535	1489033	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1487632

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE RP280 Modified	
2	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Lead Carrier	GFPC, Pb210, Solid "Dry Weight Corrected"			67.6	(25%-125%)
Barium Carrier	GFPC, Total Alpha Radium, solid "Dry Weight Corrected"			102	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	378403003	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 10:30		
Receive Date:	18-JUN-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis												
Alphaspec Th-232, Solid "Dry Weight Corrected"												
Thorium-232		1.08E-05	+/-1.28E-06	1.21E-06	2.00E-07	uCi/kg		MXS2	08/19/15	1944	1499398	1
Alphaspec U, Solid "Dry Weight Corrected"												
Uranium-233/234		3.39E-05	+/-3.44E-06	2.11E-06	2.00E-07	uCi/kg		MXS2	08/10/15	1055	1497119	2
Uranium-235/236		3.27E-06	+/-1.27E-06	2.04E-06	2.00E-07	uCi/kg						
Uranium-238		4.06E-05	+/-3.76E-06	2.28E-06	2.00E-07	uCi/kg						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	06/22/15	1416	1497112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	DOE EML HASL-300, Th-01-RC Modified	
2	DOE EML HASL-300, U-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th-232, Solid "Dry Weight Corrected"			53.8	(15%-125%)
Uranium-232 Tracer	Alphaspec U, Solid "Dry Weight Corrected"			67	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 20, 2015

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Vegetation Analysis

Client Sample ID:	South West	Project:	DNMI00101
Sample ID:	378403006	Client ID:	DNMI001
Matrix:	SOLID		
Collect Date:	15-JUN-15 10:30		
Receive Date:	18-JUN-15		
Collector:	Client		
Moisture:	80.2%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Gravimetric Solids												
ASTM D 2216 % Moisture "As Received"												
Moisture		80.2				percent		KYW2	08/09/15	1902	1498936	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	ASTM D 2216 (Modified)	

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston SC 29417
2040 Savage Road Charleston SC 29407
P 843 556.8171
F 843 766.1178

gel.com

August 20, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: Vegetation Analysis
Work Order: 378403

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 18, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Vegetation Analysis
SDG: 378403

Case Narrative

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 378403

August 20, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on June 18, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
378403001	North East
378403002	North West
378403003	South West
378403004	North East
378403005	North West
378403006	South West

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Julie Robinson

Julie Robinson
Project Manager

Chain of Custody and Supporting Documentation

375288

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Late Spring Vegetation 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
North East	6/15/2015	5500	Ra 226, PB 210
North West	6/15/2015	4985	Ra 226, PB 210
South West	6/15/2015	4976	Ra 226, PB 210
			Weights:
			North East: 5500 Grams
			North West: 4985 Grams
			South West: 4976 Grams

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	6/15/15 1200	B. Luthman	6/16/15 9:15
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

BL 6/18/15

SAMPLE RECEIPT & REVIEW FORM

Client: ~~B~~ DNMI	SDG/AR/COC/Work Order: 375288
Received By: Brelle Lethman	Date Received: 6/18/15 915

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): E5092024949
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
8	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
9	Samples received within holding time?	✓			ID's and tests affected:
10	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
11	Date & time on COC match date & time on bottles?			✓	Sample ID's affected: no time on ~~samples~~ COC, see comments BL 6/18/15
12	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
13	Are sample containers identifiable as GEL provided?			✓	
14	COC form is properly signed in relinquished/received sections?	✓			
15	Carrier and tracking number.	✓			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 1Z 187 Y44 12 9663 2866-30 1Z 187 Y44 12 9992 0478-31 1Z 187 44Y 12 9600 6257-28

Comments (Use Continuation Form if needed):
North East time collected 0900, North West time collected 0930, South west time collected 1030

PM (or PMA) review: Initials JM Date 6-19-15 Page 1 of 1

GL-CHL-SR-001 Rev 1

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 378403 **Relog of 375288001**
Client SDG: 378403
Project Manager: Julie Robinson
Project Name: DNMI00101 Vegetation Analysis
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 21-AUG-15
Package Due Date: 19-AUG-15
EDD Due Date: 21-AUG-15
Due Date: 21-AUG-15
JAR1

Collector: C
Prelogin #: 20140415619
Project Workdef ID: 1310529
SDG Status: Closed
Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
378403001	North East	-Relog from 375288001	15-JUN-15 09:00	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
378403002	North West	-Relog from 375288002	15-JUN-15 09:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
378403003	South West	-Relog from 375288003	15-JUN-15 10:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
378403004	North East	-Relog from 375288001-Relog from 378403001	15-JUN-15 09:00	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
378403005	North West	-Relog from 375288002-Relog from 378403002	15-JUN-15 09:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
378403006	South West	-Relog from 375288003-Relog from 378403003	15-JUN-15 10:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 North East	NEW	Alphaspec Th-232, Solid			Use dried material from 375288001	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	
-002 North West	NEW	Alphaspec Th-232, Solid			Use dried material from 375288002	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	
-003 South West	NEW	Alphaspec Th-232, Solid			Use dried material from 375288003	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	
-004 North East	REVW	ASTM D 2216 % Moisture			Use dried material from 375288001 Relog of 378403001	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	
-005 North West	REVW	ASTM D 2216 % Moisture			Use dried material from 375288002 Relog of 378403002	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	
-006 South West	REVW	ASTM D 2216 % Moisture			Use dried material from 375288003 Relog of 378403003	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	28,30,31	

GEL Laboratories LLC - Login Review Report

Product: ASP__THS **Workdef ID:** 1370540 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE EML HASL-300, Th-01-RC Modified
Product Description: Alphaspec Th-232, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: No Ash pCi/g
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
7440-29-1	Thorium-232	.0000002	uCi/kg	REG	Y	Y	Yes

Product: LABCOMP_S **Workdef ID:** 1310628 **In Product Group?** No **Group Name:** **Group Reference:**

Method:
Product Description: Laboratory Composite - Dry prep instructions
Samples: 004, 005, 006
Parmname Check: All parmnames scheduled properly

Path: Rad Prep SPRP
Product Reference:
Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
							No

Product: ASP__UUS **Workdef ID:** 1370669 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE EML HASL-300, U-02-RC Modified
Product Description: Alphaspec U, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: U-Natural
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
13968-55-3/13966-	Uranium-233/234	.0000002	uCi/kg	REG	Y	Y	Yes
15117-96-1/13982-	Uranium-235/236	.0000002	uCi/kg	REG	Y	Y	
7440-61-1	Uranium-238	.0000002	uCi/kg	REG	Y	Y	

Product: BALEVAS_S **Workdef ID:** 1371249 **In Product Group?** No **Group Name:** **Group Reference:**

Method:
Product Description: ASTM D 2216 % Moisture
Samples: 004, 005, 006
Parmname Check: All parmnames scheduled properly

Path: Standard Path
Product Reference:
Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Moisture		percent	REG	Y	Y	No

GEL Laboratories LLC - Login Review Report

	Action	Product Name	Description	Samples
Contingent Tests				

Login Requirements:

Requirement	Include?	Comments
Are these vegetation sample?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry.
Login Reminder?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry. Log with lab comp.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Laboratory Certifications

List of current GEL Certifications as of 20 August 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-15-10
Utah NELAP	SC000122015-18
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 378403

Method/Analysis Information

Product:	**Alphaspec U, Solid**
Analytical Method:	DOE EML HASL-300, U-02-RC Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1497119
Prep Batch Number:	1497112

Sample ID	Client ID
378403001	North East
378403002	North West
378403003	South West
1203365821	Method Blank (MB)
1203365823	Laboratory Control Sample (LCS)
1203365822	378402002(North West) Sample Duplicate (DUP)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 25.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volumes in this batch.

Designated QC

The following sample was used for QC: 378402002 (North West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The U-238 blank activity is greater than the MDC but is less than five percent of the lowest activity in the batch. The blank, 1203365821 (MB), did not meet the U-233/234 and U-235/236 detection limits due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Recounts
Sample 1203365821 (MB) was recounted due to a suspected false positive. The recount is reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**Alphaspec Th-232, Solid**
Analytical Method:	DOE EML HASL-300, Th-01-RC Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1499398
Prep Batch Number:	1497112

Sample ID	Client ID
378403001	North East
378403002	North West
378403003	South West
1203371516	Method Blank (MB)
1203371518	Laboratory Control Sample (LCS)
1203371517	378402001(North East) Sample Duplicate (DUP)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-038 REV# 16.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 378402001 (North East).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The blank did not meet the Th-232 detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
Samples were reprepped due to low carrier/tracer yield. The re-analysis is being reported.

Recounts
Samples 1203371517 (North EastDUP), 378403001 (North East), 378403002 (North West) and 378403003 (South West) were given additional clean-up steps and recounted in order to remove suspected interferences. The recounts are reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**Dry Weight-Percent Moisture**
Analytical Method:	ASTM D 2216 (Modified)
Analytical Batch Number:	1498936

Sample ID	Client ID
378403004	North East
378403005	North West
378403006	South West
1203370314	378402004(North East) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-020 REV# 10.

Calibration Information:

Quality Control (QC) Information:

Designated QC
The following sample was used for QC: 378402004 (North East).

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 378403 GEL Work Order: 378403

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Heather M. McCarty **Name: Heather McCarty**

Date: 20 AUG 2015 **Title: Analyst II**

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 20, 2015

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: **Ms. Kathy Weinel**

Workorder: **378403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Gravimetric Solids										
Batch 1498936										
QC1203370314 378402004 DUP										
Moisture		85.1		84.0	percent	1.35		(0%-20%)	KYW2	08/09/15 19:0
Rad Alpha Spec										
Batch 1497119										
QC1203365822 378402002 DUP										
Uranium-233/234		0.000171		0.000166	uCi/kg	3.02		(0%-20%)	MXS2	08/10/15 10:5
	Uncertainty	+/-1.07E-05		+/-8.89E-06						
Uranium-235/236		1.21E-05		1.23E-05	uCi/kg	2.07		(0%-20%)		
	Uncertainty	+/-3.28E-06		+/-2.75E-06						
Uranium-238		0.000152		0.000173	uCi/kg	12.8		(0%-20%)		
	Uncertainty	+/-1.01E-05		+/-9.08E-06						
QC1203365823 LCS										
Uranium-233/234				0.000115	uCi/kg					08/10/15 10:5
	Uncertainty			+/-5.50E-06						
Uranium-235/236				9.83E-06	uCi/kg					
	Uncertainty			+/-1.86E-06						
Uranium-238		0.000108		0.000133	uCi/kg		123	(75%-125%)		
	Uncertainty			+/-5.92E-06						
QC1203365821 MB										
Uranium-233/234			U	5.03E-07	uCi/kg					08/10/15 15:3
	Uncertainty			+/-4.73E-07						
Uranium-235/236			U	1.17E-06	uCi/kg					
	Uncertainty			+/-6.18E-07						
Uranium-238				1.49E-06	uCi/kg					
	Uncertainty			+/-6.12E-07						
Batch 1499398										
QC1203371517 378402001 DUP										
Thorium-232		0.000101		0.000116	uCi/kg	14.3		(0%-20%)	MXS2	08/19/15 19:4
	Uncertainty	+/-3.06E-06		+/-3.80E-06						
QC1203371518 LCS										
Thorium-232		7.91E-05		7.20E-05	uCi/kg		90.9	(75%-125%)		08/18/15 20:2
	Uncertainty			+/-2.28E-06						
QC1203371516 MB										
Thorium-232			U	3.61E-07	uCi/kg					08/18/15 20:2
	Uncertainty			+/-2.80E-07						

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

QC Summary

Workorder: 378403

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the CRDL.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

July 17, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: Vegetation Analysis
Work Order: 375288

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 18, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Vegetation Analysis
SDG: 375288

Case Narrative

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 375288

July 17, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on June 18, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
375288001	North East
375288002	North West
375288003	South West

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Julie Robinson

Julie Robinson
Project Manager

Chain of Custody and Supporting Documentation

375288

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Late Spring Vegetation 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
North East	6/15/2015	5500	Ra 226, PB 210
North West	6/15/2015	4985	Ra 226, PB 210
South West	6/15/2015	4976	Ra 226, PB 210
			Weights:
			North East: 5500 Grams
			North West: 4985 Grams
			South West: 4976 Grams

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	6/15/15 1200	B. Luthman	6/18/15 9:15
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

BL 6/18/15

SAMPLE RECEIPT & REVIEW FORM

Client: ~~B~~ DNMI	SDG/AR/COC/Work Order: 375288
Received By: Brielle Lethman	Date Received: 6/18/15 915

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): E5092024949
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
8	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
9	Samples received within holding time?	✓			ID's and tests affected:
10	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
11	Date & time on COC match date & time on bottles?			✓	Sample ID's affected: no time on ~~samples~~ COC BL 6/18/15, see comments
12	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
13	Are sample containers identifiable as GEL provided?			✓	
14	COC form is properly signed in relinquished/received sections?	✓			
15	Carrier and tracking number.	✓			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 1Z 187 Y44 12 9663 2866-30 1Z 187 Y44 12 9992 0478-31 1Z 187 44Y 12 9600 6257-28

Comments (Use Continuation Form if needed):
North East time collected 0900, North West time collected 0930, South west time collected 1030

PM (or PMA) review: Initials JM Date 6-18-15 Page 1 of 1

GL-CHL-SR-001 Rev 1

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG:	**375288**	**Late Spring Vegetation 2015**	**Work Order Due Date:**	**18-JUL-15**	**Collector: C**
Client SDG:	**375288**		**Package Due Date:**	**15-JUL-15**	**Prelogin #: 20140415619**
Project Manager:	**Julie Robinson**		**EDD Due Date:**	**17-JUL-15**	**Project Workdef ID: 1310529**
Project Name:	**DNMI00101 Vegetation Analysis**		**Due Date:**	**18-JUL-15**	**SDG Status: Closed**
Purchase Order:	**DW16138**		**JAR1**		**Logged by:**
Package Level:	**LEVEL3**				
EDD Format:	**EIM_DNMI**				

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
375288001	North East		15-JUN-15 09:00	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
375288002	North West		15-JUN-15 09:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		
375288003	South West		15-JUN-15 10:30	18-JUN-15 09:15	-2	1	VEGETATION		30		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 North East	REVW	GFPC, Total Alpha Radium, solid				Cooler Seal Undisturbed	Y	
	REVW	GFPC, Pb210, Solid				Temperature (C)	28,30,31	
	REVW	Laboratory Composite – Dry prep instructions						
-002 North West	REVW	GFPC, Total Alpha Radium, solid				Cooler Seal Undisturbed	Y	
	REVW	GFPC, Pb210, Solid				Temperature (C)	28,30,31	
	REVW	Laboratory Composite – Dry prep instructions						
-003 South West	REVW	GFPC, Total Alpha Radium, solid				Cooler Seal Undisturbed	Y	
	REVW	GFPC, Pb210, Solid				Temperature (C)	28,30,31	
	REVW	Laboratory Composite – Dry prep instructions						

Product: LABCOMP_S **Workdef ID:** 1310628 **In Product Group?** No **Group Name:** **Group Reference:**

Method: **Path:** Rad Prep SPRP

Product Description: Laboratory Composite – Dry prep instructions **Product Reference:**

Samples: 001, 002, 003 **Moisture Correction:** "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
							No

GEL Laboratories LLC - Login Review Report

Product: GFC__PBS **Workdef ID:** 1310600 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE RP280 Modified
Product Description: GFPC, Pb210, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
14255-04-0	Lead-210	.000001	uCi/kg	REG	Y	Y	Yes

Product: GFCTORAS **Workdef ID:** 1310679 **In Product Group?** No **Group Name:** **Group Reference:**

Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Total Radium	.00000005	uCi/kg	REG	Y	Y	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments
Are these vegetation sample?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry.
Login Reminder?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry. Log with lab comp.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Laboratory Certifications

List of current GEL Certifications as of 17 July 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-15-10
Utah NELAP	SC000122015-17
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 375288

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, solid**
Analytical Method:	EPA 900.1 Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1489033
Prep Batch Number:	1487632

Sample ID	Client ID
375288001	North East
375288002	North West
375288003	South West
1203345560	Method Blank (MB)
1203345563	Laboratory Control Sample (LCS)
1203345561	375288003(South West) Sample Duplicate (DUP)
1203345562	375288003(South West) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 375288003 (South West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: Refer to Data Exception Report (DER). The blank, 1203345560 (MB), did not meet the detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

Recounts
Sample 1203345563 (LCS) was recounted due to high recovery. The recount is reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: DER 1430410 was generated due to RDL less than MDA, Failed Recovery for MS/MSD and or PS/PSD. 1. The matrix spike 1203345562 does not meet the recovery requirement due to the matrix of the sample. 1. Reporting results

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
The matrix spike, 1203345562 (South WestMS), aliquot was reduced to conserve sample volume.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**GFPC, Pb210, Solid**
Analytical Method:	DOE RP280 Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1489034

Prep Batch Number: 1487632

Sample ID	Client ID
375288001	North East
375288002	North West
375288003	South West
1203345564	Method Blank (MB)
1203345567	Laboratory Control Sample (LCS)
1203345565	375288003(South West) Sample Duplicate (DUP)
1203345566	375288003(South West) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-018 REV# 13.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 375288003 (South West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The blank, 1203345564 (MB), did not meet the detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Recounts
Sample 1203345566 (South WestMS) was recounted due to a detector lock out condition. The recount is reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 375288 GEL Work Order: 375288

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Heather M. McCarty **Name: Heather McCarty**

Date: 17 JUL 2015 **Title: Analyst II**

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
16-JUL-15	Radiochemistry	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
GFPC	EPA 900.1 Modified	Solid	DNMI
Batch ID:	**Sample Numbers:**		
1489033	See Below		

Potentially affected work order(s)(SDG): 375288

Application Issues:

RDL less than MDA

Failed Recovery for MS/MSD, or PS/PSD

Specification and Requirements Exception Description:	DER Disposition:
1. The matrix spike 1203345562 does not meet the recovery requirement due to the matrix of the sample.	1. Reporting results

Originator's Name:

Nat Long 16-JUL-15

Data Validator/Group Leader:

Amanda Fehr 17-JUL-15

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 17, 2015

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: **Ms. Kathy Weinel**

Workorder: **375288**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1489033										
QC1203345561 375288003 DUP										
Total Radium		3.90E-05		4.38E-05	uCi/kg	11.6		(0%-20%)	KSD1	07/13/15 15:3
	Uncertainty	+/-1.88E-06		+/-2.21E-06						
QC1203345563 LCS										
Total Radium	0.00398			0.00487	uCi/kg		122	(75%-125%)		07/14/15 14:0
	Uncertainty			+/-6.41E-05						
QC1203345560 MB										
Total Radium			U	-1.74E-06	uCi/kg					07/13/15 15:3
	Uncertainty			+/-1.17E-06						
QC1203345562 375288003 MS										
Total Radium	0.0331	3.90E-05		0.0235	uCi/kg		70.8*	(75%-125%)		07/13/15 15:3
	Uncertainty	+/-1.88E-06		+/-0.000258						
Batch 1489034										
QC1203345565 375288003 DUP										
Lead-210		0.000529		0.000591	uCi/kg	11.1		(0%-20%)	KSD1	07/15/15 11:2
	Uncertainty	+/-1.61E-05		+/-1.61E-05						
QC1203345567 LCS										
Lead-210	0.0101			0.0113	uCi/kg		112	(75%-125%)		07/15/15 11:0
	Uncertainty			+/-0.000191						
QC1203345564 MB										
Lead-210			U	-7.20E-06	uCi/kg					07/15/15 11:0
	Uncertainty			+/-1.95E-05						
QC1203345566 375288003 MS										
Lead-210	0.0416	0.000529		0.0505	uCi/kg		120	(75%-125%)		07/17/15 12:3
	Uncertainty	+/-1.61E-05		+/-0.000606						

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded

QC Summary

Workorder: **375288**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the CRDL.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston SC 29417
2040 Savage Road Charleston SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 20, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: Vegetation Analysis
Work Order: 378402

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 24, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Vegetation Analysis
SDG: 378402

Case Narrative

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 378402

August 20, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 24, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
378402001	North East
378402002	North West
378402003	South West
378402004	North East
378402005	North West
378402006	South West

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Julie Robinson

Julie Robinson
Project Manager

Chain of Custody and Supporting Documentation

371719

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Early Spring Vegetation 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
North East	4/21/2015	930	Ra 226, PB 210
North West	4/21/2015	1000	Ra 226, PB 210
South West	4/21/2015	1100	Ra 226, PB 210

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	4/22/15 1000	Mark	4/24/15 9:10
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	SDG/AR/COC/Work Order: 371719
Received By: Shanta Mack	Date Received: 4-24-15 9:10

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		—	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		—	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		—	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		—	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		—	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		—	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 26 Secondary Temperature Device Serial # (If Applicable): E409 2024949
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
8	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
9	Samples received within holding time?	✓			ID's and tests affected:
10	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
11	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
12	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
13	Are sample containers identifiable as GEL provided?			✓	
14	COC form is properly signed in relinquished/received sections?	✓			
15	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 1Z187444 02 9310 1552 1Z187444 02 9044 7560 1Z187444 02 9036 2179

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials [signature] Date 4/24/15 Page 1 of 1

GL-CHL-SR-001 Rev 1

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 378402 **Relog of 371719001**
Client SDG: 378402
Project Manager: Julie Robinson
Project Name: DNMI00101 Vegetation Analysis
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 21-AUG-15
Package Due Date: 19-AUG-15
EDD Due Date: 21-AUG-15
Due Date: 21-AUG-15
JAR1

Collector: C
Prelogin #: 20150429639
Project Workdef ID: 1310529
SDG Status: Closed
Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
378402001	North East	-Relog from 371719001	21-APR-15 09:30	24-APR-15 09:10	-2	1	VEGETATION		30		1		
378402002	North West	-Relog from 371719002	21-APR-15 10:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		
378402003	South West	-Relog from 371719003	21-APR-15 11:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		
378402004	North East	-Relog from 371719001-Relog from 378402001	21-APR-15 09:30	24-APR-15 09:10	-2	1	VEGETATION		30		1		
378402005	North West	-Relog from 371719002-Relog from 378402002	21-APR-15 10:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		
378402006	South West	-Relog from 371719003-Relog from 378402003	21-APR-15 11:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 North East	NEW	Alphaspec Th-232, Solid			Used dried material from 371719001	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	26	
-002 North West	NEW	Alphaspec Th-232, Solid			Used dried material from 371719002	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	26	
-003 South West	NEW	Alphaspec Th-232, Solid			Used dried material from 371719003	Client Matrix	SOLID	
	NEW	Alphaspec U, Solid	U-Natural			Cooler Seal Undisturbed	Y	
						Temperature (C)	26	
-004 North East	REVW	ASTM D 2216 % Moisture			Used dried material from 371719001 Relog of 378402001	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	26	
-005 North West	REVW	ASTM D 2216 % Moisture			Used dried material from 371719002 Relog of 378402002	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	26	
-006 South West	REVW	ASTM D 2216 % Moisture			Used dried material from 371719003 Relog of 378402003	Client Matrix	SOLID	
	NEW	Laboratory Composite - Dry prep instructions				Cooler Seal Undisturbed	Y	
						Temperature (C)	26	

GEL Laboratories LLC - Login Review Report

Product: ASP__THS **Workdef ID:** 1370540 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE EML HASL-300, Th-01-RC Modified
Product Description: Alphaspec Th-232, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: No Ash pCi/g
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
7440-29-1	Thorium-232	.0000002	uCi/kg	REG	Y	Y	Yes

Product: LABCOMP_S **Workdef ID:** 1310628 **In Product Group?** No **Group Name:** **Group Reference:**

Method:
Product Description: Laboratory Composite - Dry prep instructions
Samples: 004, 005, 006
Parmname Check: All parmnames scheduled properly

Path: Rad Prep SPRP
Product Reference:
Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
							No

Product: ASP__UUS **Workdef ID:** 1370669 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE EML HASL-300, U-02-RC Modified
Product Description: Alphaspec U, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: U-Natural
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
13968-55-3/13966-	Uranium-233/234	.0000002	uCi/kg	REG	Y	Y	Yes
15117-96-1/13982-	Uranium-235/236	.0000002	uCi/kg	REG	Y	Y	
7440-61-1	Uranium-238	.0000002	uCi/kg	REG	Y	Y	

Product: BALEVAS_S **Workdef ID:** 1371249 **In Product Group?** No **Group Name:** **Group Reference:**

Method:
Product Description: ASTM D 2216 % Moisture
Samples: 004, 005, 006
Parmname Check: All parmnames scheduled properly

Path: Standard Path
Product Reference:
Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Moisture		percent	REG	Y	Y	No

GEL Laboratories LLC – Login Review Report

	Action	Product Name	Description	Samples
Contingent Tests				

Login Requirements:

Requirement	Include?	Comments
Are these vegetation sample?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry.
Login Reminder?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry. Log with lab comp.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Laboratory Certifications

List of current GEL Certifications as of 20 August 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-15--10
Utah NELAP	SC000122015-18
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 378402

Method/Analysis Information

Product:	**Alphaspec U, Solid**
Analytical Method:	DOE EML HASL-300, U-02-RC Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1497119
Prep Batch Number:	1497112

Sample ID	Client ID
378402001	North East
378402002	North West
378402003	South West
1203365821	Method Blank (MB)
1203365823	Laboratory Control Sample (LCS)
1203365822	378402002(North West) Sample Duplicate (DUP)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 25.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volumes in this batch.

Designated QC

The following sample was used for QC: 378402002 (North West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The U-238 blank activity is greater than the MDC but is less than five percent of the lowest activity in the batch. The blank, 1203365821 (MB), did not meet the U-233/234 and U-235/236 detection limits due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Recounts
Sample 1203365821 (MB) was recounted due to a suspected false positive. The recount is reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**Alphaspec Th-232, Solid**
Analytical Method:	DOE EML HASL-300, Th-01-RC Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1499398
Prep Batch Number:	1497112

Sample ID	Client ID
378402001	North East
378402002	North West
378402003	South West
1203371516	Method Blank (MB)
1203371518	Laboratory Control Sample (LCS)
1203371517	378402001(North East) Sample Duplicate (DUP)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-038 REV# 16.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 378402001 (North East).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The blank did not meet the Th-232 detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
Samples were reprepped due to low carrier/tracer yield. The re-analysis is being reported.

Recounts
Samples 1203371517 (North EastDUP), 378402001 (North East) and 378402003 (South West) were given additional clean-up steps and recounted in order to remove suspected interferences. The recounts are reported.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**Dry Weight-Percent Moisture**
Analytical Method:	ASTM D 2216 (Modified)
Analytical Batch Number:	1498936

Sample ID	Client ID
378402004	North East
378402005	North West
378402006	South West
1203370314	378402004(North East) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-020 REV# 10.

Calibration Information:

Quality Control (QC) Information:

Designated QC
The following sample was used for QC: 378402004 (North East).

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments
Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 378402 GEL Work Order: 378402

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Heather M. McCarty **Name: Heather McCarty**

Date: 20 AUG 2015 **Title: Analyst II**

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 20, 2015

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: **Ms. Kathy Weinel**

Workorder: **378402**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Gravimetric Solids										
Batch 1498936										
QC1203370314 378402004 DUP										
Moisture		85.1		84.0	percent	1.35		(0%-20%)	KYW2	08/09/15 19:0
Rad Alpha Spec										
Batch 1497119										
QC1203365822 378402002 DUP										
Uranium-233/234		0.000171		0.000166	uCi/kg	3.02		(0%-20%)	MXS2	08/10/15 10:5
	Uncertainty	+/-1.07E-05		+/-8.89E-06						
Uranium-235/236		1.21E-05		1.23E-05	uCi/kg	2.07		(0%-20%)		
	Uncertainty	+/-3.28E-06		+/-2.75E-06						
Uranium-238		0.000152		0.000173	uCi/kg	12.8		(0%-20%)		
	Uncertainty	+/-1.01E-05		+/-9.08E-06						
QC1203365823 LCS										
Uranium-233/234				0.000115	uCi/kg					08/10/15 10:5
	Uncertainty			+/-5.50E-06						
Uranium-235/236				9.83E-06	uCi/kg					
	Uncertainty			+/-1.86E-06						
Uranium-238		0.000108		0.000133	uCi/kg		123	(75%-125%)		
	Uncertainty			+/-5.92E-06						
QC1203365821 MB										
Uranium-233/234			U	5.03E-07	uCi/kg					08/10/15 15:3
	Uncertainty			+/-4.73E-07						
Uranium-235/236			U	1.17E-06	uCi/kg					
	Uncertainty			+/-6.18E-07						
Uranium-238				1.49E-06	uCi/kg					
	Uncertainty			+/-6.12E-07						
Batch 1499398										
QC1203371517 378402001 DUP										
Thorium-232		0.000101		0.000116	uCi/kg	14.3		(0%-20%)	MXS2	08/19/15 19:4
	Uncertainty	+/-3.06E-06		+/-3.80E-06						
QC1203371518 LCS										
Thorium-232		7.91E-05		7.20E-05	uCi/kg		90.9	(75%-125%)		08/18/15 20:2
	Uncertainty			+/-2.28E-06						
QC1203371516 MB										
Thorium-232			U	3.61E-07	uCi/kg					08/18/15 20:2
	Uncertainty			+/-2.80E-07						

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

QC Summary

Workorder: 378402

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the CRDL.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

May 29, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: Vegetation Analysis
Work Order: 371719

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 24, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Vegetation Analysis
SDG: 371719

Case Narrative

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 371719

May 29, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 24, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
371719001	North East
371719002	North West
371719003	South West

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Julie Robinson

Julie Robinson
Project Manager

Chain of Custody and Supporting Documentation

37/719

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2221
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Early Spring Vegetation 2015	Garrin Palmer	

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
North East	4/21/2015	930	Ra 226, PB 210
North West	4/21/2015	1000	Ra 226, PB 210
South West	4/21/2015	1100	Ra 226, PB 210

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
	4/22/15 1000	Mark	4/24/15 9:10
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	**SDG/AR/COC/Work Order:** 371719
Received By: Shanta Madc	**Date Received:** 4-24-15 9:10

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 26
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): E409 2024949
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
8	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
9	Samples received within holding time?	✓			ID's and tests affected:
10	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
11	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
12	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
13	Are sample containers identifiable as GEL provided?			✓	
14	COC form is properly signed in relinquished/received sections?	✓			
15	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 1Z187444 02 9310 1552 1Z187444 02 9044 7560 1Z187444 02 9036 2179

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials [illegible] Date 4/24/15 Page 1 of 1

GL-CHL-SR-001 Rev 1

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG: 371719 **Early Spring Vegetation 2015**
Client SDG: 371719
Project Manager: Julie Robinson
Project Name: DNMI00101 Vegetation Analysis
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 29-MAY-15
Package Due Date: 26-MAY-15
EDD Due Date: 29-MAY-15
Due Date: 29-MAY-15
JAR1

Collector: C
Prelogin #: 20150429639
Project Workdef ID: 1310529
SDG Status: Closed
Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
371719001	North East		21-APR-15 09:30	24-APR-15 09:10	-2	1	VEGETATION		30		1		
371719002	North West		21-APR-15 10:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		
371719003	South West		21-APR-15 11:00	24-APR-15 09:10	-2	1	VEGETATION		30		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 North East	REVW	GFPC, Total Alpha Radium, solid				Client Matrix	SOLID	
	REVW	GFPC, Pb210, Solid				Cooler Seal Undisturbed	Y	
	REVW	Laboratory Composite - Dry prep instructions				Temperature (C)	26	
-002 North West	REVW	GFPC, Total Alpha Radium, solid				Client Matrix	SOLID	
	REVW	GFPC, Pb210, Solid				Cooler Seal Undisturbed	Y	
	REVW	Laboratory Composite - Dry prep instructions				Temperature (C)	26	
-003 South West	REVW	GFPC, Total Alpha Radium, solid				Client Matrix	SOLID	
	REVW	GFPC, Pb210, Solid				Cooler Seal Undisturbed	Y	
	REVW	Laboratory Composite - Dry prep instructions				Temperature (C)	26	

Product: LABCOMP_S **Workdef ID:** 1310628 **In Product Group?** No **Group Name:** **Group Reference:**
Method:
Product Description: Laboratory Composite - Dry prep instructions
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Rad Prep SPRP
Product Reference:
Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
							No

GEL Laboratories LLC - Login Review Report

Product: GFC_PBS **Workdef ID:** 1310600 **In Product Group?** No **Group Name:** **Group Reference:**

Method: DOE RP280 Modified
Product Description: GFPC, Pb210, Solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
14255-04-0	Lead-210	.000001	uCi/kg	REG	Y	Y	Yes

Product: GFCTORAS **Workdef ID:** 1310679 **In Product Group?** No **Group Name:** **Group Reference:**

Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, solid
Samples: 001, 002, 003
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference:
Moisture Correction: "Dry Weight Corrected"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Total Radium	.00000005	uCi/kg	REG	Y	Y	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments
Are these vegetation sample?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry.
Login Reminder?	Y	FOR VEGETATION: After logging in, change from DRY to WET in sample inquiry. Log with lab comp.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Laboratory Certifications

List of current GEL Certifications as of 29 May 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-15-10
Utah NELAP	SC000122015-17
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 371719

Method/Analysis Information

Product:	**GFPC, Pb210, Solid**
Analytical Method:	DOE RP280 Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1477804
Prep Batch Number:	1474076

Sample ID	Client ID
371719001	North East
371719002	North West
371719003	South West
1203316137	Method Blank (MB)
1203316140	Laboratory Control Sample (LCS)
1203316138	371719003(South West) Sample Duplicate (DUP)
1203316139	371719003(South West) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-018 REV# 13.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 371719003 (South West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The blank, 1203316137 (MB), did not meet the detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits. The blank, 1203316137 (MB) result is greater than the required detection limit, but less than the MDC.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

Recounts
Sample 1203316137 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 1203316138 (South WestDUP), 371719001 (North East), 371719002 (North West) and 371719003 (South West) were recounted to verify sample results. The second counts are reported.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
The matrix spike, 1203316139 (South WestMS), aliquot was reduced to conserve sample volume.

Qualifier Information

Manual qualifiers were not required.

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, solid**
Analytical Method:	EPA 900.1 Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	1480436

Prep Batch Number: 1474076

Sample ID	Client ID
371719001	North East
371719002	North West
371719003	South West
1203323349	Method Blank (MB)
1203323352	Laboratory Control Sample (LCS)
1203323350	371719002(North West) Sample Duplicate (DUP)
1203323351	371719002(North West) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 371719002 (North West).

QC Information
All of the QC samples meet the required acceptance limits with the following exceptions: The blank, 1203323349 (MB), did not meet the detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits. The sample and the duplicate, 1203323350 (North WestDUP) and 371719002 (North West) , did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with a value of 2.4023.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
Samples were reprepped due to low recovery. The re-analysis is being reported.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

Recounts
None of the samples in this sample set were recounted.

Miscellaneous Information:

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: DER 1415234 was generated due to Failed Yield for Surrogates. 1. Sample 371719001 does not meet the yield recovery requirement due to the matrix of the sample. 1. Reporting results

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
The matrix spike, 1203323351 (North WestMS), aliquot was reduced to conserve sample volume.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 371719 GEL Work Order: 371719

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: **Name: Kate Gellatly**

Date: 29 MAY 2015 **Title: Analyst I**

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
28-MAY-15	Radiochemistry	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
GFPC	EPA 900.1 Modified	Solid	DNMI
Batch ID:	**Sample Numbers:**		
1480436	See Below		

Potentially affected work order(s)(SDG): 371719

Application Issues:

Failed Yield for Surrogates

Specification and Requirements Exception Description:	DER Disposition:
1. Sample 371719001 does not meet the yield recovery requirement due to the matrix of the sample.	1. Reporting results

Originator's Name:

Nat Long 28-MAY-15

Data Validator/Group Leader:

Kenshalla Oston 29-MAY-15

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: May 29, 2015

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: **Ms. Kathy Weinel**

Workorder: **371719**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1477804										
QC1203316138 371719003 DUP										
Lead-210		0.00059		0.000519	uCi/kg	12.7		(0%-20%)	KSD1	05/26/15 08:44
	Uncertainty	+/-1.16E-05		+/-1.08E-05						
QC1203316140 LCS										
Lead-210	0.0105			0.00898	uCi/kg		85.3	(75%-125%)		05/24/15 10:54
	Uncertainty			+/-0.000209						
QC1203316137 MB										
Lead-210			U	3.84E-05	uCi/kg					05/26/15 08:44
	Uncertainty			+/-1.47E-05						
QC1203316139 371719003 MS										
Lead-210	0.0421	0.00059		0.0491	uCi/kg		115	(75%-125%)		05/24/15 10:54
	Uncertainty	+/-1.16E-05		+/-0.000613						
Batch 1480436										
QC1203323350 371719002 DUP										
Total Radium		0.000131		0.000165	uCi/kg	22.4*		(0%-20%)	BXF1	05/28/15 08:01
	Uncertainty	+/-4.21E-06		+/-4.49E-06						
QC1203323352 LCS										
Total Radium	0.00426			0.00443	uCi/kg		104	(75%-125%)		05/28/15 08:01
	Uncertainty			+/-7.67E-05						
QC1203323349 MB										
Total Radium			U	-3.33E-07	uCi/kg					05/28/15 08:01
	Uncertainty			+/-1.83E-06						
QC1203323351 371719002 MS										
Total Radium	0.0166	0.000131		0.0159	uCi/kg		95	(75%-125%)		05/28/15 08:01
	Uncertainty	+/-4.21E-06		+/-0.000264						

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded

QC Summary

Workorder: 371719

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the CRDL.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

ATTACHMENT G

STACK SAMPLE LABORATORY RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

April 17, 2015

VIA EMAIL

Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
Lakewood, CO 80228
Email: kweinel@energyfuels.com

Attn: Ms. Kathy Weinel
Quality Assurance Manager

Dear Ms. Weinel:

It has come to my attention that samples received from Tetco on February 17, 2015 for Energy Fuels 2015 1st Quarter were not logged in for the Radium-228 (Ra228) analysis as requested on the Chain-of-Custody (COC).

We regret this unfortunate error and take full responsibility for our oversight. The Ra228 test was clearly marked on the COC, but the project manager missed it during sample check-in review. The lab anticipated the standard test suite of Uranium, Thorium, Lead and Radium-226 typically requested by Tetco each quarter and failed to notice the addition of Ra-228.

Unfortunately, all sample volume was consumed during analysis of the other four tests and we will not be able to analyze the 2015 1st Quarter samples for Ra-228. No results will be reported for Ra-228.

Please accept our sincerest apologies for this oversight. It is TestAmerica's goal to provide quality data in a timely manner, and we will be reviewing how we can prevent this kind of error from occurring in the future.

If you need any further action on this matter, please let me know. I can be reached at 509-375-3131, ext 160 or Erika.Jordan@testamericainc.com.

Warmest Regards,

Erika Jordan

Erika Jordan 2015.04.16 15:00:11 -07'00'

Erika Jordan
Manager of Project Management

cc: Jodie Carnes, Jenny Stewart, Steven LaZar

FIRST QUARTER
RADIONUCLIDE EMISSIONS TEST
CONDUCTED AT
ENERGY FUELS RESOURCES
SOUTH YELLOW CAKE SCRUBBER
YELLOW CAKE DRYER BAGHOUSE

BLANDING, UTAH

February 9-11, 2015

by:

TETCO
391 East 620 South
American Fork, UT 84003
Phone (801) 492-9106
Fax (801) 492-9107 fax

Prepared for:

Energy Fuels Resources
6425 S Hwy 91
Blanding, Utah 84511

Date of Report:

April 15, 2015

CERTIFICATION OF REPORT INTEGRITY

Technical Emissions Testing Company (TETCO) certifies that this report represents the truth as well as can be derived by the methods employed. Every effort was made to obtain accurate and representative data and to comply with procedures set forth in the Federal Register.

Mike McNamara

Reviewer: _____

Date: 4/15/15

Doug Olsen

Reviewer: _____

Date: 4/15/15

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INTRODUCTION

Test Purpose

This test project was conducted to determine the total radionuclide emissions from the South Yellow Cake Scrubber and the Yellow Cake Dryer Baghouse exhausts in terms of Curies per dry standard cubic foot (Ci/dscf).

Test Location and Type of Process

Energy Fuels Resources is located about 5 miles south of Blanding, Utah. Uranium ore is processed into yellow cake, which is shipped to other facilities for additional processing. There are two yellow cake dryers with individual scrubbers. Both dryer enclosures discharge into the Yellow Cake Dryer Baghouse. The packaging enclosure also discharges into the Yellow Cake Dryer Baghouse. The South Yellow Cake (SYC) dryer was the only operating dryer at the time of the test. The North Yellow Cake dryer is currently not operational. The Grizzly Baghouse serves as the main dust control device for the raw ore unloading and conveying to the processing building but was not operating.

Stack schematics are shown as Figures 1 and 2 in Appendix D.

Test Dates

The first test run on the SYC Scrubber was completed February 9 and 10, 2015 and the second run on February 10 and 11, 2015.

One run was completed on the Yellow Cake Dryer Baghouse February 10, 2015.

Pollutants Tested and Methods Applied

The tests were a determination of radionuclide emissions in accordance with EPA Method 5/114. The tests for the SYC and the Yellowcake Dryer Baghouse were for the following radionuclide: Th-228, Th-230, Th-232, U-234, U-235, U-238, Pb-210, Ra-226 and Ra-228.
Test run filters and front wash residues were sent to Test America located in Richland, Washington for radionuclide analysis.

Test Participants

Test Facility	Logan Shumway
State Agency	None
TETCO	Jeff Graton Mike McNamara Kawai McNamara

Deviations From EPA Methods

None.

Quality Assurance

Testing procedures and sample recovery techniques were according to those outlined in the Federal Register and the *Quality Assurance Handbook for Air Pollution Measurement Systems*.

SUMMARY OF RESULTS

Emission Results

Table I presents the findings of the test in Curies per dry standard cubic foot. Tables IV and V in Appendix A have more detailed information.

Table I. Measured Radionuclide Emissions

Run #	South Yellow Cake Scrubber		Yellow Cake Dryer Baghouse	
	pCi/dscf	pCi/hr	pCi/dscf	pCi/hr
1	69.791	3.818E+06	1.790	3.840E+05
2	147.929	8.353E+06		
AVE	**108.860**	**6.086E+06**	**1.790**	**3.840E+05**

Test run 1 on the Yellow Cake Dryer Baghouse was completed with 6 barrels being filled.

Process Data

The process was operated according to standard procedures. All pertinent process data was available for recording by agency personnel. Scrubber water flow, pressure drop readings (Δp) were recorded and are found in Appendix D. The Dryer Baghouse pressure drop readings (Δp) were recorded and are found on the test run sheets. Production data will be submitted by Energy Fuels Resources.

Description of Collected Samples

The test filters for the South Yellow Cake Scrubber were heavily covered with a light tan colored particulate. The front washes were cloudy in appearance.

The test filters for the Yellow Cake Dryer Baghouse were lightly colored with a tan colored particulate. The front wash was clear in appearance.

Discussion of Errors or Irregularities

None

Percent Isokinetic Sampling

Each test run was isokinetic within the ±10% of 100% criterion specified in the Federal Register. Isokinetic values for each test run are presented in Table II.

Table II. Percent Isokinetic Sampling

Run #	South Yellow Cake Scrubber	Yellow Cake Dryer Baghouse
1	93	97
2	102	

SOURCE OPERATION

Process Control Devices Operation

All process control devices were operated normally. Recorded scrubber water flow, pressure and baghouse Δp readings were recorded and are found on the test run sheets or in Appendix D.

Process Representativeness

The facility was operated normally. Production data was retained by Energy Fuels Resources.

SAMPLING AND ANALYSIS PROCEDURES

Sampling Port Location

The inside diameter of the South Yellow Cake Scrubber stack is 12.75 inches. The two, four-inch diameter sample port are located 28.24 diameters (30 feet) downstream from the last disturbance and 6.59 diameters (7 feet) upstream from the next disturbance. Figure 1 in Appendix D is a schematic of the stack.

The inside diameter of the Yellow Cake Dryer Baghouse stack is 16.0 inches. The two, four-inch diameter sample ports are located 28.38 diameters (454 inches) downstream from the last disturbance and 3.56 diameters (57 inches) upstream from the next disturbance. The sample port locations are depicted in Figure 2 in Appendix D.

Sampling Point Location

Table III shows the distance of each sampling point from the inside wall according to EPA Method 1. Each point is marked and identified with a wrapping of glass tape and numbered. These points are determined by measuring the distance from the inside wall.

Table III. Sampling Point Location

Sample Point	Distance (inches) from Inside Wall	
	SYC Scrubber	Dryer Baghouse
1	0.85	0.70
2	3.19	2.34
3	9.56	4.74
4	11.90	11.26
5		13.66
6		15.30

Sampling Train Description

To determine the actual emission rates for this stack, 40 CFR 60, Appendix A, Methods 1-5/114 were followed.

All sampling trains were made of inert materials, (Teflon, stainless steel and glass) to prevent interference of the sampled gas and particulate. The stack analyzers used to conduct Methods 1-5/114 are constructed to meet the specifications outlined in the CFR. The temperature sensors are

K-type thermocouples. Heater, vacuum and pitot line connections have been designed to be interchangeable with all units used by the tester. A 316 stainless steel probe liner was used for the tests. Figure 4 in Appendix E is a sketch of the Methods 5/114 sampling train.

Sample boxes were prepared for testing by following the prescribed procedures outlined in Methods 5/114.

Sampling and Analytical Procedures

All sampling and analytical test procedures were as specified in 40 CFR 60, Appendix A, Methods 5/114.

Quality Assurance

All equipment setup, sampling procedures, sample recovery and equipment calibrations were carried out according to the procedures specified in 40 CFR 60 and the *Quality Assurance Handbook for Air Pollution Measurement Systems*.

APPENDIX

A: Complete Results and Sample Calculations
B: Raw Field Data
C: Laboratory Data and Chain of Custody
D: Raw Production Data
E: Calibration Procedures and Results
F: Related Correspondence

APPENDIX A

Table IV Complete Results, South Yellow Cake Scrubber
Table V Complete Results, Yellow Cake Dryer Baghouse

Nomenclature
Sample Equations

TABLE IV
COMPLETE RESULTS
ENERGY FUELS CORPORATION, BLANDING, UTAH
SOUTH YELLOWCAKE SCRUBBER EXHAUST

Symbol	Description	Dimensions	Run #1	Run #2	
Date			2/9,10/2015	2/10,11/15	
Filter #			6299	unnumbered	
Begin	Time Test Began		13:58	12:43	
End	Time Test Ended		11:30	11:29	
Pb_m	Meter Barometric Pressure	In. Hg. Abs	24.50	24.50	
ΔH	Orifice Pressure Drop	In. H_2O	2.194	1.077	
Y	Meter Calibration Y Factor	dimensionless	1.001	1.001	
Vm	Volume Gas Sampled--Meter Conditions	cf	469.164	345.572	
T_m	Avg Meter Temperature	°F	84.3	77.5	
$\sqrt{\Delta P}$	Sq Root Velocity Head	Root In. H_2O	0.3590	0.3706	
Wt_{wc}	Weight Water Collected	Grams	292.6	226.7	
T_t	Duration of Test	Minutes	480	480	
C_p	Pitot Tube Coefficient	Dimensionless	0.84	0.84	
D_n	Nozzle Diameter	Inches	0.3875	0.3145	
CO_2	Volume % Carbon Dioxide	Percent	2.60	2.20	
O_2	Volume % Oxygen	Percent	16.00	16.60	
N_2 & CO	Volume % Nitrogen and Carbon Monoxide	Percent	81.40	81.20	
Vm_{std}	Volume Gas Sampled (Standard)	dscf	375.500	279.148	
Vw	Volume Water Vapor	scf	13.796	10.689	
$Bw_{s\ (measured)}$	Fraction H_2O in Stack Gas (Measured)	Fraction	0.035	0.037	
$Bw_{s\ (saturated)}$	Fraction H_2O in Stack Gas (Saturated)	Fraction	0.077	0.076	
Bw_s	Fraction H_2O in Stack Gas *	Fraction	0.035	0.037	
X_d	Fraction of Dry Gas	Fraction	0.965	0.963	
M_d	Molecular Wt. Dry Gas	lb/lbmol	29.06	29.02	
M_s	Molecular Wt. Stack Gas	lb/lbmol	28.66	28.61	
%I	Percent Isokinetic	Percent	92.9	101.6	**AVG**
T_s	Avg Stack Temperature	°F	99.0	98.5	**98.8**
A_s	Stack Cross Sectional Area	Sq. Ft.	0.887	0.887	
P_G	Stack Static Pressure	In. H_2O	-0.110	-0.110	
Pb_p	Sample Port Barometric Pressure	In. Hg. Abs	24.43	24.43	
P_s	Stack Pressure	In. Hg. Abs	24.422	24.422	
Q_s	Stack Gas Volumetric Flow Rate (Std)	dscfm	9.12E+02	9.41E+02	**9.26E+02**
Q_a	Stack Gas Volumetric Flow Rate (Actual)	cfm	1.23E+03	1.27E+03	**1.25E+03**
V_s	Velocity of Stack Gas	fpm	1.38E+03	1.43E+03	**1.40E+03**
Curies	Radionuclides per sample	pCi	26206.84	41294.37	
Curies	Radionuclides per blank	pCi	0.22	0.22	
Net Curies	Net Radionuclides per sample	pCi	26206.62	41294.15	
Crad	Concentration of Radionuclides	pCi/dscf	69.791	147.929	**108.860**
ERrad	Emission Rate of Radionuclides	pCi/hr	3.818E+06	8.353E+06	**6.086E+06**

* If the measured moisture content is greater than the saturated moisture level (supersaturated), the saturated moisture value will be used in all calculations (40 CFR 60, Method 4

TABLE V
COMPLETE RESULTS, PM
ENERGY FUELS CORPORATION, BLANDING, UTAH
YELLOW CAKE DRYER BAGHOUSE

Symbol	Description	Dimensions	Run #1
Date	Date		2/10/15
Filter #			6107
Begin	Time Test Began		10:40
End	Time Test Ended		12:42
Pb_m	Meter Barometric Pressure	In. Hg. Abs	24.50
ΔH	Orifice Pressure Drop	In. H_2O	1.700
Y	Meter Calibration Y Factor	dimensionless	1.002
Vm	Volume Gas Sampled--Meter Conditions	cf	99.555
T_m	Avg Meter Temperature	°F	78.7
$\sqrt{\Delta P}$	Sq Root Velocity Head	Root In H_2O	0.8591
Wt_{wc}	Weight Water Collected	Grams	11.7
T_t	Duration of Test	Minutes	120
C_p	Pitot Tube Coefficient	Dimensionless	0.84
D_n	Nozzle Diameter	Inches	0.2220
CO_2	Volume % Carbon Dioxide	Percent	0.00
O_2	Volume % Oxygen	Percent	20.90
N_2 & CO	Volume % Nitrogen and Carbon Monoxide	Percent	79.10
Vm_{std}	Volume Gas Sampled (Standard)	dscf	80.470
Vw	Volume Water Vapor	scf	0.552
Bw_s	Fraction H_2O in Stack Gas	Fraction	0.007
X_d	Fraction of Dry Gas	Fraction	0.993
M_d	Molecular Wt. Dry Gas	lb/lbmol	28.84
M_s	Molecular Wt. Stack Gas	lb/lbmol	28.76
%I	Percent Isokinetic	Percent	97.4
T_s	Avg Stack Temperature	°F	83.8
A_s	Stack Cross Sectional Area	Sq. Ft	1.396
P_G	Stack Static Pressure	In. H_2O	-0.69
Pb_p	Sample Port Barometric Pressure	In. Hg. Abs	24.43
P_s	Stack Pressure	In. Hg. Abs	24.379
Q_s	Stack Gas Volumetric Flow Rate (Std)	dscfm	3.58E+03
Q_a	Stack Gas Volumetric Flow Rate (Actual)	cfm	4.55E+03
V_s	Velocity of Stack Gas	fpm	3.26E+03
Curies	Radionuclides per sample	pCi	144.25
Curies	Radionuclides per blank	pCi	0.22
Net Curies	Net Radionuclides per sample	pCi	144.03
Crad	Concentration of Radionuclides	pCi/dscf	1.790
ERrad	Emission Rate of Radionuclides	pCi/hr	3.840E+05

General Nomenclature

%I = percent isokinetic, percent

$A_s = (D_s^2 / 4) \cdot \pi$

$AS\Delta P$ = see $\sqrt{\Delta P}$

Btu = unit heat value (British thermal unit)

B_{ws} = fraction of water in stack gas (may have designation of "measured" or "saturated")
"measured" represents measured moisture based upon sample volume and water collected
"saturated" is a calculated value based upon stack pressure and temperature

C_0 = average of initial and final system zero gas calibration bias checks (ppm, percent)

C_{avg} = average gas concentration (as measured)

C_B = concentration of particulate matter, back half (gr/dscf,lb/dscf, etc.)

C_{cond} = concentration of condensibles (grain/dscf)

C_{cors} = concentration of coarse particulate (gr/dscf)

C_{Dir} = measured concentration of a calibration gas when introduced in direct calibration mode

C_{fa} = concentration of particulate matter, front half, actual stack flow (gr /acf)

C_F = concentration of particulate matter, front half (gr/dscf,lb/dscf, etc.)

C_{gas} = C_{avg} corrected for initial and final system bias checks (Equation 7E-5)

C_m = average of initial and final system upscale gas calibration bias checks (ppm, percent)

C_{ma} = actual concentration of upscale calibration gas

C_{metal} = concentration of metals (ppm, $\mu g/ft^3$, etc.) atomic symbol replaces "metal"

CO_2 = percent carbon dioxide in the stack gas

C_p = pitot tube coefficient (0.84)

C_{PM10} = concentration of PM_{10} particulate (gr/dscf)

C_{rad} = concentration of radionuclides (pCi/dscf)

CS = measured concentration of a calibration gas when introduced in system calibration mode

C_X = Any species symbol may replace X. Units may be expressed as ppm, lb/dscf, etc.

$C_{X\ (corr)}$ = actual gas concentration corrected to required percent O_2

Curies = Measured radionuclides per sample. Units may be pCi or uCi.

D_c = jet diameter (cm)

D/F = Dioxins and Furans (See laboratory report for D/F descriptions and nomenclacture)

ΔH = orifice pressure drop (inches H_2O)

$\Delta H_@$ = orifice pressure (inches H_2O)

ΔH_d = orifice pressure head (inches H_2O) needed for impactor flow rate

D_n = nozzle diameter (inches)

ΔP = stack flow pressure differential (inches H_2O)

Dp_{50} = 50% effective cutoff diameter of particle (cm)

D_s = diameter of the stack (feet)

EA = percent excess air

ER_B = emission rate of back half particulate (lb/hr)

ER_{cond} = emission rate of condensibles (lb/hr)

ER_{cors} = emission rate of coarse particulate (lb/hr)

ER_F = emission rate of front half particulate (lb/hr)

ER_{gas} = emission rate of a gas (lb/hr)

ER_{mmBtu} = emission rate per mmBtu of fuel

ER_{PM10} = emission rate of PM_{10} particulate (lb/hr)

ER_{rad} = emission rate of radionuclides (pCi/hr)

ER_X = emission rate of compound which replaces X. Units are usually in lb/hr.

F_D = Dry based fuel factor. Ratio of the gas volume of the products of combustion to the heat content
See 40 CFR 60, Appendix A, Method 19, Table 19-2 for fuel factor values.

K_c = Cunningham slip correction factor

λ = mean free path of molecules in gas phase (cm)

mmBtu = million Btu

General Nomenclature

M_{cond} = mass of condensibles (milligrams)
M_{cors} = mass of coarse particulate (milligrams)
M_d = molecular weight of stack gas, dry basis (lb/lb-mol)
M_F = mass of particulate on filter (mg)
M_{FP} = mass of particulate matter on filter and probe (mg)
mmBtu = million Btu
M_P = mass of particulate matter in probe and front wash (mg)
M_{PM10} = mass of PM_{10} particulate (milligrams)
M_s = molecular weight of stack gas, wet basis (lb/lbmol)
M_X = mass of species "X". Units may vary and other descriptive subscripts may apply.
μ_s = gas viscosity (poise)
M_{wx} = molecular weight of gas species (g/gmol)
N = number of jets per plate
N_2 = percent nitrogen in the stack gas
O_2 = percent oxygen in the stack gas
$\sqrt{\Delta P}$ = average of the square roots of ΔP (may also be referred to as $AS\Delta P$)
$\sqrt{\Delta P_1}$ = square root of ΔP at point 1 of the current test, Method 201A
$\sqrt{\Delta P_1'}$ = square root of ΔP at point 1 of the previous traverse, Method 201A
$\sqrt{\Delta P'_{ave}}$ = average of the square roots of ΔP from the previous traverse, Method 201A
Pb_m = absolute barometric pressure at the dry gas meter (inches Hg)
Pb_p = absolute barometric pressure at the sample location (inches Hg)
P_G = stack static pressure (inches H_2O)
P_s = absolute stack pressure (inches Hg)
P_{std} = absolute pressure at standard conditions (29.92 inches Hg.)
θ = time of test (minutes)
θ_1 = sample time (duration in minutes) at first sample point for Method 201A
θ_n = sample time (duration in minutes) at sample point "n" for Method 201A
θ_{test} = target test time for Method 201A (minutes)
Q_a = stack gas volumetric flow rate (acfm)
Q_s = stack gas volumetric flow rate (dscfm)
Q_{sc} = actual gas flow rate through the cyclone (acfm)
Q_{sce} = actual gas flow rate through the impactor (acfm)
Q_W = wet stack gas std. volumetric flow (ft^3/min, wscfm)
R = gas constant (21.85 inches Hg*ft^3/(lbmol*R))
ρ_p = particle density (1 g/cm^3)
ρ_s = stack gas density (g/cm^3)
T_m = stack temperature (°F)
T_s = stack temperature (°F)
T_{std} = absolute temperature at standard conditions (528°R)
Tt = Duration of test run in minutes. Also see θ
u_m = mean molecular speed (cm/s)
Vm = sample volume (ft^3) at meter conditions
Vm_{std} = volume standard (dscf), sample volume adjusted to 68°F and 29.92 inches Hg.
V_s = velocity of stack gas (fpm)
V_w = volume water vapor (scf) at 68°F and 29.92 inches Hg.
Wt_{wc} = weight of the condensed water collected (grams)
X_d = fraction of dry gas
Y = meter calibration Y-factor (dimensionless)
ψ = dimensionless inertial impaction parameter, 0.14

General Sample Equations

$$\%I = Vm_{std} \cdot (T_s + 460) \cdot 1039 / (\theta \cdot V_s \cdot P_s \cdot X_d \cdot D_n^2)$$

$$A_s = (D_s^2 / 4) \cdot \pi$$

$$B_{ws} = V_w / (Vm_{std} + V_w)$$

$$C_B = M_B \cdot 0.01543 / Vm_{std}$$

$$C_{cond} = M_{cond} \cdot 0.01543 / Vm_{std}$$

$$C_{cors} = M_{cors} \cdot 0.01543 / Vm_{std}$$

$$C_{fa} = T_{std} \cdot C_{fp} \cdot P_s \cdot X_d / [P_{std} \cdot (T_m + 460)]$$

$$C_f = M_{fp} \cdot 0.01543 / Vm_{std}$$

$$C_{PM10} = M_{PM10} \cdot 0.01543 / Vm_{std}$$

$$C_{rad} = Curies/Vm_{std}$$

$$C_{gas\ (corr)} = C_{gas} \cdot (20.9 - \text{desired } \%O_2) / (20.9 - \text{actual } \%O_2)$$

$$_{case}\ Dp_{50} = \sqrt{[\mu s \cdot \psi \cdot N \cdot \pi \cdot D_c^3 \cdot 18 / (K_c \cdot \rho_p \cdot Q_{sce} \cdot 4)]}$$

$$_{PM_{10}}\ Dp_{50} = 0.15625 \cdot [(T_s + 460) / (M_s \cdot P_s)]^{0.2091} \cdot (\mu_s / Q_{sc})^{0.7091}$$

$$ER_{cond} = C_{cond} \cdot Q_s \cdot 0.00857$$

$$ER_{cors} = C_{cors} \cdot Q_s \cdot 0.00857$$

$$ER_F = C_f \cdot Q_s \cdot 0.00857$$

$$ER_{gas} = P_{std} \cdot Q_s \cdot M_{wgas} \cdot C_{gas} \cdot 60 / (R \cdot T_{std} \cdot 10^6)$$

$$ER_{gas} = C_{gas(lb/dscf)} \cdot Qs \cdot 60$$

(Either ER_{gas} equation gives equivalent lb/hr values to 3 sig. figures)

$$ER_{mmBtu} = C_{gas(lb/dscf)} \cdot F_d \cdot (20.9/(20.9 - \%O_2)$$, Method 19 Equation 19-1

$$ER_{PM10} = C_{PM10} \cdot Q_s \cdot 0.00857$$

$$ER_{rad} = C_{rad} \cdot Qs \cdot 60$$

$$K_c = 1 + 2 \cdot \lambda \cdot 1.257 / Dp_{50}$$

$$\lambda = \mu_s / (0.499 \cdot \rho_s \cdot u_m)$$

$$M_d = CO_2 \cdot 0.44 + O_2 \cdot 0.32 + N_2 \cdot 0.28$$

$$M_s = (M_d \cdot X_d) + (18 \cdot B_{ws})$$

$$\mu_s = [51.05 + 0.207 \cdot (T_s + 460) + 3.24 \cdot 10^{-5} \cdot (T_s + 460)_2 + 0.53147 \cdot \%O_2 - 74.143 \cdot B_{ws}] \cdot 10^{-6}$$

$$P_s = Pb_p + (P_G / 13.6)$$

$$\theta_1 = (\sqrt{\Delta P_1'} / \sqrt{\Delta P'_{ave}}) \cdot (\theta_{test} / pts)$$

$$\theta_n = \theta_1 \cdot \sqrt{\Delta P_n} / \sqrt{\Delta P_1}$$

$$Q_a = V_s \cdot A_s$$

$$Q_s = Qa \cdot Xd \cdot Ps \cdot T_{std} / [(Ts + 460) \cdot P_{std}]$$

$$Q_{sc} = [(T_s + 460) \cdot P_{std} / (T_{std} \cdot P_s)] \cdot [(Vm_{std} + V_w) / \theta]$$

$$Q_{sce} = [(T_s + 460) \cdot P_{std} / (T_{std} \cdot P_s)] \cdot [(Vm_{std} + V_w) / \theta]$$

$$Q_W = Q_s / X_d$$

$$\rho_s = P_s \cdot M_s \cdot 3386.39 \cdot 10^{-6} / [R \cdot (T_s + 460) / 1.8]$$

$$u_m = 100 \cdot \sqrt{\{[R \cdot (T_s + 460) / 1.8 \cdot 8 \cdot 10^3] / [\pi \cdot M_s]\}}$$

$$Vm_{std} = Vm \cdot Y \cdot T_{std} \cdot (Pb_m + \Delta H / 13.6) / [P_{std} \cdot (T_m + 460)]$$

$$V_s = 85.49 \cdot 60 \cdot Cp \cdot \sqrt{\Delta P} \cdot \sqrt{[(T_s + 460) / (P_s \cdot M_s)]}$$

$$V_w = Wt_{wc} \cdot 0.04715$$

$$X_d = 1 - B_{ws}$$

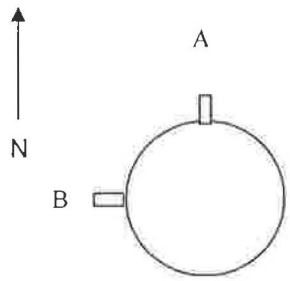
APPENDIX B

South Yellow Cake Scrubber
- Preliminary Velocity Traverse and Sampling Point Location Data
- Particulate Field Data

Yellow Cake Dryer Baghouse
- Preliminary Velocity Traverse and Sampling Point Location Data
- Particulate Field Data

South Yellow Cake Dryer Scrubber

Prelim 6 pts blank



Stack Dia 12.75 Reference: 0

Ports are 7' Upstream from next disturbance

Ports are 30' Downstream from last disturbance

Facility Energy Fuels

Stack Identification South Yellow Cake Dryer Scrubber

Date 2/9/15

Barometric Pressure

Pb_m 24.50 in Hg Pb_p 24.43 in Hg

Static Pressure (P_G) -.11 in H_2O

Estimated Moisture (Bw_s) 4-6% %

Sample Height from Ground 70 feet

Comments:

Traverse Point	Percent Diameter	Distance From: ID	Distance From: Reference	Ports A	B	C	D	E	F
1	6.7	0.85	0.85	.11 101					
2	25.0	3.19	3.19	.12 100					
3	75.0	9.56	9.56	.13 100					
4	93.3	11.90	11.90	.13 100					

Averages:

T_S _____ ∠ Flow _____

ΔP _____ √ΔP _____

KEY => T_S ∠ Flow ΔP

M5 Field Data Sheet

Filter 6309 Sample Box I

Page 1 of 1 Run # 1

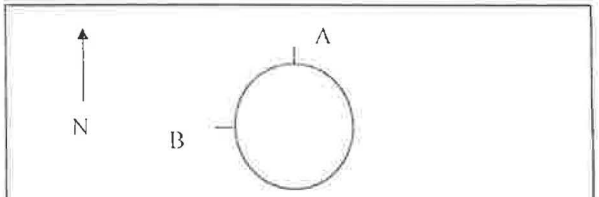
Plant: Energy Fuels

Date: 2/9/15

Location: South Yellow Cake Dryer Scrubber

Operator: JEFF GRATON

	Traverse Point	Time Clock	Time Min (θ)	DGM (ft³)	ΔP (in H₂O)	ΔH (in H₂O) Desired	ΔH (in H₂O) Actual	Vacuum (in Hg)	Temperatures (°F) Stack (T_s)	Probe	Probe out	Oven	Effluent	DGM Temp (T_m) Out	In
									1	2	3	4	5	6	7
B	1	13:58	0	512.502	.130	2.24	2.24	35	101	245	245	245	48	75	76
	1		20	529.808	.130	2.24	2.24	5	101	245	245	245	48	75	76
	1		40	550.445	.130	2.24	2.24	5	101	249	279	275	48	79	89
	2		60	570.575	.125	2.15	2.15	6	101	251	260	256	48	81	92
	2		80	590.212	.125	2.15	2.15	6	103	241	243	240	50	81	90
	2		100	609.179	.130	2.24	2.24	7	103	250	249	246	53	79	88
	3		120	627.805	.130	2.24	2.24	7	103	253	255	252	53	78	87
	3		140	646.180	.125	2.15	2.15	7	103	260	259	256	56	80	91
	3		160	665.770	.125	2.15	2.15	8	103	268	264	260	60	80	88
JG 685.015	4		180	685.015	.125	2.15	2.15	9	103	245	251	251	62	80	90
	4		200	704.605	.125	2.08	2.08	10	102	248	245	240	62	82	93
A	4	17:58	220	723.905	.125	2.08	2.08	10	101	251	253	251	64	82	92
744.234	1	9:30	240	742.995	.125	2.08	2.08	4	91	250	245	245	40	72	77
	1		260	763.650	.125	2.08	2.08	4	93	250	245	245	39	77	92
	1		280	781.947	.120	1.99	1.99	5	93	254	247	245	39	86	103
	2		300	801.000	.120	2.03	2.03	5	94	259	260	254	40	84	92
	2		320	820.678	.135	2.28	2.28	7	95	264	265	257	44	79	88
	2		340	839.731	.135	2.28	2.28	7	96	270	264	257	45	76	86
	3		360	861.300	.135	2.30	2.30	7	97	256	254	246	44	77	87
	3		380	881.530	.135	2.30	2.30	8	97	246	253	247	49	81	93
	3		400	901.760	.135	2.30	2.30	8	98	260	246	246	50	80	90
	4		420	922.130	.135	2.30	2.30	9	98	260	263	254	53	80	93
	4		440	942.400	.135	2.30	2.30	9	99	260	264	258	49	81	94
	4		460	962.510	.135	2.30	2.30	10	99	255	265	265	47	81	93
		17:50	480	982.905											
Total				469.164	√8.6510		52.450		2.376					4047	
Average					√.3590		2.194		99.0					84.3	



Stack Diameter 12.75" Port Reference 0"

Ports are 7' Upstream from next disturbance

Ports are 30' Downstream from last disturbance

Assumed Moisture 4-6 %

Probe 276-2 Cp 0.84

Nozzle Calibration

.387 .387 .388 .388

Avg D_n .3875 inches

Gas Bag M-03

Console 4

Y-Factor 1.001

$\Delta H_@$ 1.476 in H_2O

Barometric Pressures

Pb_m 24.50 in Hg

Pb_p 24.43 in Hg

P_g -.1 in H_2O

Leak Check	Pre	Post
ft³/min	0.003	0.002
vac in Hg	22.0	23.0

Pitot Rate		
in H_2O	0.00	0.00
	.02.0	.02.0

Water Collected 2[illegible] g

Time Sampled 480 min

Review [illegible]

K = @T_m

K = @T_m

Additional (Extra) Leak Check Information

	DGM before Leak Check	Vac ("Hg)	Rate (ft³/min)	DGM After Leak Check	Vac ("Hg)	Rate (ft³/min)
	742.995	21.0	.003	744.234		
	743.642	21.0	.002			

230.493

238.671

M5 Field Data Sheet

Filter unnumbered ETCO Sample Box I

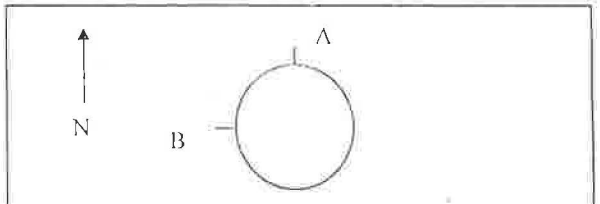
Page 1 of 1 Run # 2

Plant: Energy Fuels

Date: 2/10/15

Location: South Yellow Cake Dryer Scrubber

Operator: JEFF GRAMOLI



Stack Diameter 12.75" Port Reference 0"

Ports are 7' Upstream from next disturbance

Ports are 30' Downstream from last disturbance

Assumed Moisture 4-6 %

Probe _____ Cp 0.84

Nozzle Calibration

.3140 .3140 .3150 .3150

Avg D_n .3145 inches

Gas Bag M-03

Console 4

Y-Factor 1.001

$\Delta H_@$ 1.576 in H_2O

Barometric Pressures

Pb_m 24.50 in Hg

Pb_p 24.53 in Hg

P_G -0.10 in H_2O

Traverse Point	Time Clock	Time Min (θ)	DGM (ft³)	ΔP (in H₂O)	ΔH (in H₂O) Desired	ΔH (in H₂O) Actual	Vacuum (in Hg)	Temperatures (°F) Stack (T_s)	Probe	Probe out	Oven	Effluent	DGM Temp (T_m) Out	In
B 1	12:42	0	989.815	.125	.912	.912	3	99	260	245	245	39	70	73
1		20	1003.736	.120	.931	.931	3	105	260	253	253	39	71	75
1		40	1018.060	.120	.921	.921	3	104	260	255	255	39	72	77
2		60	1032.481	.125	.900	.900	4	104	260	260	260	39	74	79
2		80	1046.390	.120	.927	.927	4	105	256	260	260	41	74	78
2		100	1060.121	.120	.927	.927	4	105	253	262	262	41	74	79
3		120	1073.271	.121	.935	.935	4	105	255	262	270	41	74	78
3		140	1086.470	.125	.900	.900	5	105	253	250	259	46	75	79
JG 3		160	1100.315	.120	.927	.927	5	105	258	265	265	44	74	79
1113.870 4		180	1113.480	.120	.927	.927	5	103	251	260	267	40	73	77
4		200	1126.890	.115	.889	.889	5	101	265	250	250	40	76	81
4		220	1139.800	.118	.912	.912	5	100	265	263	271	39	78	83
1139 A ✗ 1	16:43	240	1152.860	.150	1.169	1.169	6	90	245	245	245	36	52	55
1		260	1169.165	.150	1.180	1.180	6	90	265	245	245	36	60	69
1		280	1185.470	.155	1.220	1.220	6	91	260	250	251	36	66	74
JG 2		300	1198.305	.157	1.240	1.240	6	92	250	267	267	38	~~65~~	77
2		320	1212.850	.155	1.220	1.220	6	93	260	266	271	38	74	81
2		340	1227.395	.157	1.240	1.240	7	94	265	268	275	39	78	86
3		360	1243.373	.160	1.250	1.250	7	95	265	251	261	40	83	91
3		380	1258.930	.157	1.250	1.250	7	96	253	248	254	40	85	92
3		400	1273.940	.157	1.250	1.250	7	96	253	250	250	42	84	91
4		420	1289.815	.155	1.210	1.210	8	96	260	263	270	41	85	92
4		440	1305.113	.154	1.201	1.201	8	96	265	270	275	40	84	91
4		460	1320.250	.154	1.201	1.201	8	96	270	275	275	40	84	90
	1129	480	1335.381											
Total			345.512 ✓	√8.891	✓ 25.840	✓	23.665	✓					37.3	✓
Average				√.3106	1.011		93.5						77.5	

Water Collected 226.7 g

Time Sampled 480 min

Review JG

K @T_m

K = @T_m

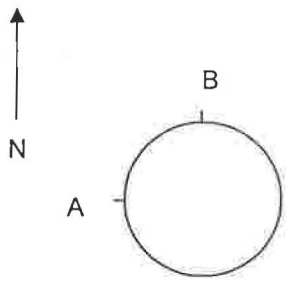
Additional (Extra) Leak Check Information

	DGM before Leak Check	Vac ("Hg)	Rate (ft³/min)	DGM After Leak Check	Vac ("Hg)	Rate (ft³/min)
✗	Sample train not					
	disconnected overnight					

Leak Check	Pre	Post
ft³/min	0.000	0.004
vac in Hg	22.	22.
Pitot Rate	0.00	0.00
in H_2O	.20	.20

Yellow Cake Dryer Baghouse

Prelim 6 pts blank



Stack Dia 16 Reference: 0

Ports are 57" Upstream from next disturbance

Ports are 468" Downstream from last disturbance

Facility Denison Mines

Stack Identification North Yellow Cake Dryer Baghouse

Date 2/10/15

Barometric Pressure

Pb_m 24.50 in Hg Pb_p 24.45 in Hg

Static Pressure (P_G) -.69 in H_2O

Estimated Moisture (Bw_s) 1 %

Sample Height from Ground _____ feet

Comments:

Traverse Point	Percent Diameter	Distance From: ID	Distance From: Reference	Ports A	B	C	D	E	F
1	4.4	0.70	0.70		.61 76				
2	14.6	2.34	2.34						
3	29.6	4.74	4.74		.88 76				
4	70.4	11.26	11.26		.91 76				
5	85.4	13.66	13.66		.80 76				
6	95.6	15.30	15.30		.80 76				

Averages:

T_S _____ ∠ Flow _____

ΔP _____ √ΔP _____

KEY => T_S ∠ Flow ΔP

MS Field Data Sheet

Filter 6107 TETCO Sample Box C

Page 1 of 1 Run # 1

Plant: Denison Mines

Date: 2/10/15

Location: Yellowcake Dryer Baghouse

Operator: M. McNamara

N

B

A

Stack Diameter 16" Port Reference 0.0"

Ports are 57" Upstream from next disturbance

Ports are 468" Downstream from last disturbance

	Traverse Point	Time Clock	Time Min (θ)	DGM (ft³)	ΔP (in H₂O)	ΔH (in H₂O) Desired	ΔH (in H₂O) Actual	Vacuum (in Hg)	Temperatures (°F) Stack (Ts)	Probe	Probe Out	Filter	Effluent	DGM Temp (Tm) Out	In
B	1	10:40	0	437.900	.74	1.72	1.72	2	80	261	264	264	58	67	68
	2		10	446.050	.77	1.77	1.77	2	81	250	252	252	50	67	73
	3		20	454.435	.77	1.77	1.77	2	82	270	251	251	50	69	81
	4		30	462.820	.77	1.77	1.77	2	82	260	259	259	53	74	86
	5		40	471.210	.74	1.70	1.70	2	84	260	250	250	54	75	87
	6		50	479.570	.75	1.73	1.73	2	84	261	251	251	[illegible]	[illegible]	87
A	1	11:42	60	487.969	.73	1.68	1.68	2	84	260	266	266	40	76	83
	2		70	496.270	.73	1.68	1.68	2	84	270	264	264	36	77	87
	3		80	504.620	.73	1.68	1.68	2	85	255	247	247	38	78	[illegible]
	4		90	512.945	.73	1.68	1.68	2	86	239	261	261	40	78	87
	5		100	521.135	.74	1.70	1.70	2	87	248	265	265	38	77	86
	6		110	529.500	.66	1.52	1.52	2	86	241	258	258	39	77	85
		12:42	120	537.455											
Total				99.555	10.2092		20.400					100			1889
Average					.8591		1.700					83.8			78.7

Assumed Moisture 1 %

Probe 18-0 Cp 0.84

Nozzle Calibration

.222 .222 .222 .222

Avg D_n .222 inches

Gas Bag Ambient Air

Console 6

Y-Factor 1.002

$\Delta H_@$ 1.640 in H_2O

Barometric Pressures

Pb_m 29.50 in Hg

Pb_p 29.43 in Hg

P_G -.69 in H_2O

Leak Check:	Pre	Post
ft³/min	0.002	0.001
vac in Hg	20.0	12
Pitot Rate	0.0	0.0
In H_2O	8.0	8.0

Water Collected 11.7 g

Time Sampled 120 min

Review [illegible]

K = @T_m

K = @T_m

Comments:

Time	Baghouse ΔP	Time	Baghouse ΔP
11:15	3.1	12:30	4.4
11:30	3.5		
11:45	4.2		
12:06	4.3		

6 Bulbals

APPENDIX C

South Yellow Cake Scrubber
- Sample Recovery
- Gas Analysis Data (ORSAT)

Yellow Cake Dryer Baghouse
- Sample Recovery
- Gas Analysis Data (Ambient)

Chain of Custody

Lab Analysis

South Yellow Cake Dryer Scrubber

METHOD 5

Facility: Energy Fuels

Date: 2/9/15

Stack Identification: SYC Scrubber

IMPINGERS

Run: 1

Sample Box: I

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers, (ml)					
	drop out	100	drop out	100		Silica Gel
Final (g)	573.7	713.6	529.5	640.3	652.3	957.1
Initial (g)	559.6	638.8	473.0	588.9	621.8	891.8
Net (g)	14.1	74.8	56.5	51.4	30.5	65.3

Total (g) 292.6

IMPINGERS

Run: 2

Sample Box: I

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers, (ml)					
	drop out	100	drop out	100		Silica Gel
Final (g)	579.0	715.0	528.7	669.8	658.6	900.0
Initial (g)	561.0	635.7	474.3	640.3	652.3	861.3
Net (g)	18.0	79.3	54.4	29.5	6.3	39.2

Total (g) 226.7

IMPINGERS

Run: _____

Sample Box: _____

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers, (ml)					
	drop out	100	drop out	100		Silica Gel
Final (g)						
Initial (g)						
Net (g)						

Total (g) _____

IMPINGERS

Run: _____

Sample Box: _____

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers, (ml)					
	drop out	100	drop out	100		Silica Gel
Final (g)						
Initial (g)						
Net (g)						

Total (g) _____

Plant Energy Fuels Location SYC

Analytical Method

Date 2/9/15
Test No. 1
Gas Bag No. H-03
Ambient Temp 70
Operator [illegible]

Gas	RUN 1 Actual Reading	RUN 1 Net	RUN 2 Actual Reading	RUN 2 Net	RUN 3 Actual Reading	RUN 3 Net	Average Net Volume
CO_2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
O_2 (Net is Actual O_2 Reading Minus Actual CO_2 Reading).	18.6	16.0	18.6	16.0	18.6	16.0	16.0
N_2 (Net is 100 Minus Actual O_2 Reading).							

Date 2/11/15
Test No. 2
Gas Bag No. H-03
Ambient Temp 68
Operator [illegible]

Gas	RUN 1 Actual Reading	RUN 1 Net	RUN 2 Actual Reading	RUN 2 Net	RUN 3 Actual Reading	RUN 3 Net	Average Net Volume
CO_2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
O_2 (Net is Actual O_2 Reading Minus Actual CO_2 Reading).	18.8	16.6	18.8	16.6	18.8	16.6	16.6
N_2 (Net is 100 Minus Actual O_2 Reading).							

Date
Test No.
Gas Bag No.
Ambient Temp
Operator

Gas	RUN 1 Actual Reading	RUN 1 Net	RUN 2 Actual Reading	RUN 2 Net	RUN 3 Actual Reading	RUN 3 Net	Average Net Volume
CO_2							
O_2 (Net is Actual O_2 Reading Minus Actual CO_2 Reading)							
N_2 (Net is 100 Minus Actual O_2 Reading).							

†O_2 was determined using a gas analyzer
CO is not measured, as it has the same molecular weight as N_2

Baghouse M5

Facility: Energy Fuels

Date: 2/10/15

Stack Identification: SYC Baghouse

IMPINGERS

Run: 1

Sample Box: C

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers. (ml)					
	100	100	—	Silica Gel		
Final (g)	701.7	629.3	571.2	911.9		
Initial (g)	725.5	618.1	565.8	893.0		
Net (g)	-23.8	11.2	5.4	18.9		

Total (g) 11.7

IMPINGERS

Run: _____

Sample Box: _____

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers. (ml)					
	100	100	—	Silica Gel		
Final (g)						
Initial (g)						
Net (g)						

Total (g) _____

IMPINGERS

Run: _____

Sample Box: _____

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers. (ml)					
	100	100	—	Silica Gel		
Final (g)						
Initial (g)						
Net (g)						

Total (g) _____

IMPINGERS

Run: _____

Sample Box: _____

	Impinger Number					
	1	2	3	4	5	6
	Initial Volume of liquid (H_2O) in impingers. (ml)					
	100	100	—	Silica Gel		
Final (g)						
Initial (g)						
Net (g)						

Total (g) _____

Yellow Cake Dryer Baghouse

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Tetco	Dean Kitchen	2/12/2015	
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
391 East 620 South	801-492-9106		Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
American Fork	Ut	84003	Logan Shumway	

Project Name and Location (State): Energy Fuels 2015 1st Quarter

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	U-Nat	Ra-226	Ra-228	Th-228	Th-230	Th-232	Lead-210	Special Instructions/ Conditions of Receipt
R1 Dryer BH filter and beaker	02/10/15	10:00	X										X	X	X	X	X	X	X	
R1 SYC Scrubber filter and beaker	2/9,10/15	14:00	X										X	X	X	X	X	X	X	
R2 SYC Scrubber filter and beaker	2/10,11/15	11:00	X										X	X	X	X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other as per method

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	2/12/15	14:00	1.		
2.			2.		
3.			3.		

Comments: When Complete Email to: Dean or Paul tetco@tetco-ut.com

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Analytical Data Package Prepared For

Denison Mines (USA) Corp.

Radiochemical Analysis By

TestAmerica Inc

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code:

Data Package Contains 19 *Pages*

Report No.: 64996

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
49291		R1 Dryer BH filter and beaker	J5B170405-1	M569E1AE	9M569E10	5049061
		R1 Dryer BH filter and beaker	J5B170405-1	M569E1AA	9M569E10	5049064
		R1 Dryer BH filter and beaker	J5B170405-1	M569E1AC	9M569E10	5049065
		R1 Dryer BH filter and beaker	J5B170405-1	M569E1AD	9M569E10	5049066
		R1 SYC Scrubber filter and bea	J5B170405-2	M569J1AE	9M569J10	5049061
		R1 SYC Scrubber filter and bea	J5B170405-2	M569J1AA	9M569J10	5049064
		R1 SYC Scrubber filter and bea	J5B170405-2	M569J1AC	9M569J10	5049065
		R1 SYC Scrubber filter and bea	J5B170405-2	M569J1AD	9M569J10	5049066
		R2 SYC Scrubber filter and bea	J5B170405-3	M569K1AE	9M569K10	5049061
		R2 SYC Scrubber filter and bea	J5B170405-3	M569K1AA	9M569K10	5049064
		R2 SYC Scrubber filter and bea	J5B170405-3	M569K1AC	9M569K10	5049065
		R2 SYC Scrubber filter and bea	J5B170405-3	M569K1AD	9M569K10	5049066

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

March 16, 2015

Denison Mines (USA) Corp
1050 17th Street, Suite 950
Denver, CO 80265

Attention: Dean Kitchen

Date Received at Lab	:	February 17, 2015
Project Name	:	Energy Fuels 2015 1st Quarter
Sample Type	:	Three (3) Stack Filter Samples
SDG Number	:	49291

CASE NARRATIVE

I. Introduction

On February 17, 2015, three stack filter samples were received at TestAmerica's Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TestAmerica identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Numbers J5B170405.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analysis requested was:

Alpha Spectroscopy
Thorium-228, -230, -232 by method RL-ALP-001
Uranium-234, -235, -238 by method RL-ALP-004
Gas Proportional Counting
Pb-210 by method RL-GPC-011
Alpha Scintillation
Radium-226 by method RL-RA-001

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Alpha Spectroscopy

Thorium-228, 230, 232

CRDL is not met for the samples in this batch; entire sample was used and samples were counted for 1000 minutes. Except as noted, the LCS, batch blank and sample results are within acceptance limits.

Uranium-234, 235, 238

MDA exceeds CRDL for all samples in this batch; the achieved MDA of majority of the samples exceed CRDL. Except as noted, the LCS, batch blank and sample results are within acceptance limits.

Gas Proportional Counting

Pb-210

The MDA for the samples and QC exceeds the CRDL due to method and matrix limitations. The blank activity is less than the achieved MDA. Tracer yields and LCS recovery meet acceptance criteria. Except as noted, the LCS, batch blank and sample results are within acceptance criteria.

Alpha Scintillation

Radium-226

The MDA for the samples and QC exceeds the CRDL due to method and matrix limitations. The blank activity is less than the achieved MDA. Tracer yields and LCS recovery meet acceptance criteria. Except as noted, the LCS, batch blank and sample results are within acceptance criteria.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Robin Ebert-Mays

Robin Ebert-Mays
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
CSU (#s) ***u_c Combined Standard Uncert.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined standard uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL).
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

TestAmerica Inc

Ordered by Method, Batch No., Client Sample ID.

Date: 16-Mar-15

Report No. : 64996

SDG No: 49291

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
5049064 RICHRC5011									
R1 Dryer BH filter and beaker									
	M569E1AA	Th-228	6.95E-09 +- 8.2E-09	U	uCi/Sample	75%	1.36E-08		
		Th-230	1.44E-07 +- 3.6E-08		uCi/Sample	75%	8.68E-09	3.00E-15	
		Th-232	4.61E-09 +- 5.5E-09		uCi/Sample	75%	4.16E-09		
R1 SYC Scrubber filter and bea									
	M569J1AA	Th-228	1.14E-08 +- 8.8E-09		uCi/Sample	82%	4.40E-09		
		Th-230	1.57E-07 +- 3.9E-08		uCi/Sample	82%	8.92E-09	3.00E-15	
		Th-232	4.74E-09 +- 5.7E-09		uCi/Sample	82%	4.28E-09		
R2 SYC Scrubber filter and bea									
	M569K1AA	Th-228	1.05E-08 +- 8.6E-09		uCi/Sample	88%	1.00E-08		
		Th-230	1.79E-07 +- 4.1E-08		uCi/Sample	88%	9.77E-09	3.00E-15	
		Th-232	1.42E-09 +- 3.1E-09	U	uCi/Sample	88%	3.85E-09		
5049061 FFSR									
R1 Dryer BH filter and beaker									
	M569E1AE	U-234	4.62E-05 +- 5.7E-05	U	uCi/Sample	77%	7.44E-05	9.00E-15	
		U-235	0.00E+00 +- 3.3E-05	U	uCi/Sample	77%	4.41E-05	9.00E-15	
		U-238	9.77E-05 +- 8.2E-05		uCi/Sample	77%	4.41E-05	9.00E-15	
R1 SYC Scrubber filter and bea									
	M569J1AE	U-234	1.39E-02 +- 2.8E-03		uCi/Sample	72%	8.89E-05	9.00E-15	
		U-235	4.73E-04 +- 2.2E-04		uCi/Sample	72%	5.57E-05	9.00E-15	
		U-238	1.18E-02 +- 2.4E-03		uCi/Sample	72%	7.49E-05	9.00E-15	
R2 SYC Scrubber filter and bea									
	M569K1AE	U-234	2.02E-02 +- 4.1E-03		uCi/Sample	62%	5.53E-05	9.00E-15	
		U-235	6.53E-04 +- 2.6E-04		uCi/Sample	62%	5.53E-05	9.00E-15	
		U-238	2.04E-02 +- 4.1E-03		uCi/Sample	62%	8.21E-05	9.00E-15	
5049066 RICHRC5011									
R1 Dryer BH filter and beaker									
	M569E1AD	Pb-210	8.98E-08 +- 2.0E-07	U	uCi/Sample	92%	3.24E-07	6.00E-14	
R1 SYC Scrubber filter and bea									
	M569J1AD	Pb-210	3.36E-05 +- 5.6E-06		uCi/Sample	90%	3.31E-07	6.00E-14	
R2 SYC Scrubber filter and bea									
	M569K1AD	Pb-210	4.11E-05 +- 7.0E-06		uCi/Sample	84%	3.57E-07	6.00E-14	
5049065 RL-RA-001									
R1 Dryer BH filter and beaker									
	M569E1AC	Ra-226	1.09E-07 +- 4.8E-08		uCi/sample	92%	6.47E-08	9.00E-14	
R1 SYC Scrubber filter and bea									
	M569J1AC	Ra-226	6.37E-08 +- 4.0E-08		uCi/sample	100%	5.70E-08	9.00E-14	
R2 SYC Scrubber filter and bea									

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 16-Mar-15

TestAmerica Inc

Ordered by Method Batch No., Client Sample ID.

Report No. : 64996 **SDG No:** 49291

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
5049065	RL-RA-001								
	R2 SYC Scrubber filter and bea								
	M569K1AC	Ra-226 ✓	7.54E-08 +- 5.4E-08	U	uCi/sample	80%	8.04E-08	9.00E-14	

No. of Results: 24

TestAmerica Inc

rptTALRchSaSummary2 V5.3.6.8 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

Date: 16-Mar-15

TestAmerica Inc

Ordered by Method. Batch No, QC Type,.

Report No. : 64996 **SDG No.:** 49291

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
RICHRC5011								
5049064 BLANK QC,								
M57LA2AA	Th-228	5.08E-10 +- 4.1E-09	U	uCi/Sample	90%			1.09E-08
	Th-230	5.92E-09 +- 6.3E-09	U	uCi/Sample	90%			9.62E-09
	Th-232	7.40E-10 +- 2.7E-09	U	uCi/Sample	90%			6.97E-09
5049064 LCS,								
M57LA1AC	Th-230	2.23E-06 +- 3.4E-07		uCi/Sample	78%	97%	0.0	1.50E-08
FFSR								
5049061 BLANK QC,								
M57K41AA	U-234	8.04E-11 +- 1.7E-10	U	uCi/Sample	77%			3.05E-10
	U-235	0.00E+00 +- 1.7E-10	U	uCi/Sample	77%			2.27E-10
	U-238	8.04E-11 +- 1.7E-10	U	uCi/Sample	77%			3.05E-10
5049061 LCS,								
M57K41AC	U-234	1.73E-08 +- 4.4E-09		uCi/Sample	59%	106%	0.1	4.55E-10
	U-238	1.80E-08 +- 4.5E-09		uCi/Sample	59%	106%	0.1	4.12E-10
RICHRC5011								
5049066 BLANK QC,								
M57LF1AA	Pb-210	2.03E-07 +- 2.1E-07	U	uCi/Sample	92%			3.37E-07
5049066 LCS,								
M57LF1AC	Pb-210	1.01E-05 +- 1.7E-06		uCi/Sample	92%	110%	0.1	3.02E-07
RL-RA-001								
5049065 BLANK QC,								
M57LD1AA	Ra-226	1.87E-08 +- 3.6E-08	U	uCi/sample	96%			5.98E-08
5049065 LCS,								
M57LD1AC	Ra-226	8.76E-06 +- 2.0E-06		uCi/sample	100%	89%	-0.1	4.17E-08

No. of Results: 13

TestAmerica Inc

rptSTLRchQcSummary V5.3.6.8 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	**SDG:**	49291	**Collection Date:**	2/10/2015 10:00:00 AM
Lot-Sample No.:	J5B170405-1	**Report No. :**	64996	**Received Date:**	2/17/2015 9:35:00 AM
Client Sample ID:	R1 Dryer BH filter and beaker	**COC No. :**		**Matrix:**	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5049061	FFSR			**Work Order:**	M569E1AE		**Report DB ID:**	9M569E10				
U-234	4.62E-05	U	5.6E-05	5.7E-05	7.44E-05	uCi/Sample	77%	*0.62*	2/24/15 06:47 p	1.0	0.00104	ALP408
						1.67E-05	9.00E-15	*(1.6)*		Sample	Sample	
U-235	0.00E+00	U	0.0E+00	3.3E-05	4.41E-05	uCi/Sample	77%	*0.*	2/24/15 06:47 p	1.0	0.00104	ALP408
						8.66E-06	9.00E-15	*0.*		Sample	Sample	
U-238	9.77E-05		8.0E-05	8.2E-05	4.41E-05	uCi/Sample	77%	*(2.2)*	2/24/15 06:47 p	1.0	0.00104	ALP408
						8.66E-06	9.00E-15	*(2.4)*		Sample	Sample	
								Ratio U-234/238 = 0.5				
Batch: 5049064	RICHRC5011			**Work Order:**	M569E1AA		**Report DB ID:**	9M569E10				
Th-228	6.95E-09	U	8.1E-09	8.2E-09	1.36E-08	uCi/Sample	75%	*0.51*	3/10/15 05:47 a	1.0	0.98909	ALP110
						5.20E-09		*(1.7)*		Sample	Sample	
Th-230	1.44E-07		3.0E-08	3.6E-08	8.68E-09	uCi/Sample	75%	*(16.6)*	3/10/15 05:47 a	1.0	0.98909	ALP110
						3.33E-09	3.00E-15	*(7.9)*		Sample	Sample	
Th-232	4.61E-09		5.5E-09	5.5E-09	4.16E-09	uCi/Sample	75%	*(1.1)*	3/10/15 05:47 a	1.0	0.98909	ALP110
						2.28E-09		*(1.7)*		Sample	Sample	
Batch: 5049065	RL-RA-001			**Work Order:**	M569E1AC		**Report DB ID:**	9M569E10				
Ra-226	1.09E-07		4.3E-08	4.8E-08	6.47E-08	uCi/sample	92%	*(1.7)*	3/13/15 06:22 p	1.0	0.9891	ASC1RH
						3.11E-08	9.00E-14	*(4.6)*		g	g	
Batch: 5049066	RICHRC5011			**Work Order:**	M569E1AD		**Report DB ID:**	9M569E10				
Pb-210	8.98E-08	U	1.9E-07	2.0E-07	3.24E-07	uCi/Sample	92%	*0.28*	3/13/15 11:09 a	1.0	0.98909	GPC31B
						1.58E-07	6.00E-14	*0.92*		Sample	Sample	

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MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	**SDG:**	49291	**Collection Date:**	2/10/2015 10:00:00 AM
Lot-Sample No.:	J5B170405-1	**Report No. :**	64996	**Received Date:**	2/17/2015 9:35:00 AM
Client Sample ID:	R1 Dryer BH filter and beaker	**COC No. :**		**Matrix:**	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 8 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	**SDG:**	49291	**Collection Date:**	2/9/2015 2:00:00 PM
Lot-Sample No.:	J5B170405-2	**Report No. :**	64996	**Received Date:**	2/17/2015 9:35:00 AM
Client Sample ID:	R1 SYC Scrubber filter and bea	**COC No. :**		**Matrix:**	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5049061	FFSR			**Work Order:**	M569J1AE		**Report DB ID:**	9M569J10				
U-234	1.39E-02		1.1E-03	2.8E-03	8.89E-05	uCi/Sample	72%	*(156.7)*	2/24/15 06:48 p	1.0	0.00089	ALP409
						1.93E-05	9.00E-15	*(10.)*		Sample	Sample	
U-235	4.73E-04		2.0E-04	2.2E-04	5.57E-05	uCi/Sample	72%	*(8.5)*	2/24/15 06:48 p	1.0	0.00089	ALP409
						1.09E-05	9.00E-15	*(4.4)*		Sample	Sample	
U-238	1.18E-02		9.9E-04	2.4E-03	7.49E-05	uCi/Sample	72%	*(158.2)*	2/24/15 06:48 p	1.0	0.00089	ALP409
						1.47E-05	9.00E-15	*(9.9)*		Sample	Sample	
								Ratio U-234/238 = 1.2				
Batch: 5049064	RICHRC5011			**Work Order:**	M569J1AA		**Report DB ID:**	9M569J10				
Th-228	1.14E-08		8.7E-09	8.8E-09	4.40E-09	uCi/Sample	82%	*(2.6)*	3/10/15 05:47 a	1.0	0.98965	ALP112
						2.41E-09		*(2.6)*		Sample	Sample	
Th-230	1.57E-07		3.2E-08	3.9E-08	8.92E-09	uCi/Sample	82%	*(17.6)*	3/10/15 05:47 a	1.0	0.98965	ALP112
						3.42E-09	3.00E-15	*(8.1)*		Sample	Sample	
Th-232	4.74E-09		5.6E-09	5.7E-09	4.28E-09	uCi/Sample	82%	*(1.1)*	3/10/15 05:47 a	1.0	0.98965	ALP112
						2.35E-09		*(1.7)*		Sample	Sample	
Batch: 5049065	RL-RA-001			**Work Order:**	M569J1AC		**Report DB ID:**	9M569J10				
Ra-226	6.37E-08		3.7E-08	4.0E-08	5.70E-08	uCi/sample	100%	*(1.1)*	3/13/15 06:22 p	1.0	0.9891	ASC9RA
						2.70E-08	9.00E-14	*(3.2)*		g	g	
Batch: 5049066	RICHRC5011			**Work Order:**	M569J1AD		**Report DB ID:**	9M569J10				
Pb-210	3.36E-05		6.6E-07	5.6E-06	3.31E-07	uCi/Sample	90%	*(101.5)*	3/13/15 11:09 a	1.0	0.98965	GPC31C
						1.62E-07	6.00E-14	*(11.9)*		Sample	Sample	

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FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	**SDG:**	49291	**Collection Date:**	2/9/2015 2:00:00 PM
Lot-Sample No.:	J5B170405-2	**Report No. :**	64996	**Received Date:**	2/17/2015 9:35:00 AM
Client Sample ID:	R1 SYC Scrubber filter and bea	**COC No. :**		**Matrix:**	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 8 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	**SDG:**	49291	**Collection Date:**	2/11/2015 11:00:00 AM
Lot-Sample No.:	J5B170405-3	**Report No. :**	64996	**Received Date:**	2/17/2015 9:35:00 AM
Client Sample ID:	R2 SYC Scrubber filter and bea	**COC No. :**		**Matrix:**	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5049061	FFSR			**Work Order:**	M569K1AE		**Report DB ID:**	9M569K10				
U-234	2.02E-02		1.3E-03	4.1E-03	5.53E-05	uCi/Sample	62%	*(365.3)*	2/24/15 06:48 p	1.0	0.00104	ALP410
						1.08E-05	9.00E-15	*(9.9)*		Sample	Sample	
U-235	6.53E-04		2.3E-04	2.6E-04	5.53E-05	uCi/Sample	62%	*(11.8)*	2/24/15 06:48 p	1.0	0.00104	ALP410
						1.08E-05	9.00E-15	*(5.)*		Sample	Sample	
U-238	2.04E-02		1.3E-03	4.1E-03	8.21E-05	uCi/Sample	62%	*(248.2)*	2/24/15 06:48 p	1.0	0.00104	ALP410
						1.71E-05	9.00E-15	*(9.9)*		Sample	Sample	
								Ratio U-234/238 = 1.0				
Batch: 5049064	RICHRC5011			**Work Order:**	M569K1AA		**Report DB ID:**	9M569K10				
Th-228	1.05E-08		8.4E-09	8.6E-09	1.00E-08	uCi/Sample	88%	*(1.)*	3/10/15 05:48 a	1.0	0.98946	ALP113
						3.82E-09		*(2.5)*		Sample	Sample	
Th-230	1.79E-07		3.2E-08	4.1E-08	9 77E-09	uCi/Sample	88%	*(18.4)*	3/10/15 05:48 a	1.0	0.98946	ALP113
						3.72E-09	3.00E-15	*(8.7)*		Sample	Sample	
Th-232	1.42E-09	U	3.1E-09	3.1E-09	3.85E-09	uCi/Sample	88%	*0.37*	3/10/15 05:48 a	1.0	0.98946	ALP113
						2.11E-09		*0.93*		Sample	Sample	
Batch: 5049065	RL-RA-001			**Work Order:**	M569K1AC		**Report DB ID:**	9M569K10				
Ra-226	7.54E-08	U	5.1E-08	5.4E-08	8.04E-08	uCi/sample	80%	*0.94*	3/13/15 06:22 p	1.0	0.9895	ASCASC
						3.86E-08	9.00E-14	*(2.8)*		g	g	
Batch: 5049066	RICHRC5011			**Work Order:**	M569K1AD		**Report DB ID:**	9M569K10				
Pb-210	4.11E-05		7.5E-07	7.0E-06	3.57E-07	uCi/Sample	84%	*(114.9)*	3/13/15 11:09 a	1.0	0.98946	GPC31D
						1.75E-07	6.00E-14	*(11.8)*		Sample	Sample	

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U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 16-Mar-15

Lab Name:	TestAmerica Inc	SDG:	49291	Collection Date:	2/11/2015 11:00:00 AM
Lot-Sample No.:	J5B170405-3	Report No. :	64996	Received Date:	2/17/2015 9:35:00 AM
Client Sample ID:	R2 SYC Scrubber filter and bea	COC No. :		Matrix:	OTHER SOLI

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 8 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 16-Mar-15

Lab Name: TestAmerica Inc **SDG:** 49291

Matrix: OTHER SOLI **Report No. :** 64996

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5049066	RICHRC5011			**Work Order:**	M57LF1AA		**Report DB ID:**	M57LF1AB				
Pb-210	2.03E-07	U	2.1E-07	2.1E-07	3.37E-07	uCi/Sample	92%	0.6	3/13/15 11:09 a	1.0	1.0	GPC32A
					1.65E-07	6.00E-14		(1.9)		Sample	Sample	
Batch: 5049065	RL-RA-001			**Work Order:**	M57LD1AA		**Report DB ID:**	M57LD1AB				
Ra-226	1.87E-08	U	3.6E-08	3.6E-08	5.98E-08	uCi/sample	96%	0.31	3/13/15 06:23 p		201.06	ASCBMC
					2.87E-08	9.00E-14		(1.)			g	
Batch: 5049061	FFSR			**Work Order:**	M57K41AA		**Report DB ID:**	M57K41AB				
U-234	8.04E-11	U	1.7E-10	1.7E-10	3.05E-10	uCi/Sample	77%	0.26	2/24/15 06:48 p	1.0	200.51	ALP411
					6.00E-11	9.00E-15		0.96		Sample	Sample	
U-235	0.00E+00	U	0.0E+00	1.7E-10	2.27E-10	uCi/Sample	77%	0.	2/24/15 06:48 p	1.0	200.51	ALP411
					4.45E-11	9.00E-15		0.		Sample	Sample	
U-238	8.04E-11	U	1.7E-10	1.7E-10	3.05E-10	uCi/Sample	77%	0.26	2/24/15 06:48 p	1.0	200.51	ALP411
					6.00E-11	9.00E-15		0.96		Sample	Sample	
							Ratio U-234/238 = 1.0					
Batch: 5049064	RICHRC5011			**Work Order:**	M57LA2AA		**Report DB ID:**	M57LA2AB				
Th-228	5.08E-10	U	4.1E-09	4.1E-09	1.09E-08	uCi/Sample	90%	0.05	3/11/15 05:44 p	201.06	201.06	ALP117
					4.17E-09			0.25		Sample	Sample	
Th-230	5.92E-09	U	6.3E-09	6.3E-09	9.62E-09	uCi/Sample	90%	0.62	3/11/15 05:44 p	201.06	201.06	ALP117
					3.67E-09	3.00E-15		(1.9)		Sample	Sample	
Th-232	7.40E-10	U	2.7E-09	2.7E-09	6.97E-09	uCi/Sample	90%	0.11	3/11/15 05:44 p	201.06	201.06	ALP117
					2.67E-09			0.56		Sample	Sample	

No. of Results: 8 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 16-Mar-15

Lab Name: TestAmerica Inc

SDG: 49291

Matrix: OTHER SOLI

Report No. : 64996

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 9 Comments:

FORM II

LCS RESULTS

Date: 16-Mar-15

Lab Name: TestAmerica Inc

SDG: 49291

Matrix: OTHER SOLI

Report No. : 64996

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5049066	RICHRC5011			**Work Order:**	M57LF1AC		**Report DB ID:**	M57LF1CS					
Pb-210	1.01E-05		3.8E-07	1.7E-06	3.02E-07	uCi/Sample	92%	9.16E-06	1.56E-07	110%	3/13/15 11:09 a	1.0	GPC32B
							Rec Limits:	75	125	0.1		Sample	
Batch: 5049065	RL-RA-001			**Work Order:**	M57LD1AC		**Report DB ID:**	M57LD1CS					
Ra-226	8.76E-06		1.8E-07	2.0E-06	4.17E-08	uCi/sample	100%	9.83E-06	9.99E-08	89%	3/13/15 06:23 p	200.52	ASCCSC
							Rec Limits:	75	125	-0.1		g	
Batch: 5049061	FFSR			**Work Order:**	M57K41AC		**Report DB ID:**	M57K41CS					
U-234	1.73E-08		2.8E-09	4.4E-09	4.55E-10	uCi/Sample	59%	1.63E-08	5.02E-10	106%	2/24/15 06:49 p	201.01	ALP414
							Rec Limits:	75	125	0.1		Sample	
U-238	1.80E-08		2.9E-09	4.5E-09	4.12E-10	uCi/Sample	59%	1.70E-08	5.26E-10	106%	2/24/15 06:49 p	201.01	ALP414
							Rec Limits:	75	125	0.1		Sample	
Batch: 5049064	RICHRC5011			**Work Order:**	M57LA1AC		**Report DB ID:**	M57LA1CS					
Th-230	2.23E-06		1.1E-07	3.4E-07	1.50E-08	uCi/Sample	78%	2.29E-06	2.37E-08	97%	3/10/15 05:49 a	200.52	ALP115
							Rec Limits:	75	125	0.0		Sample	

No. of Results: 5 **Comments:**

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Tetco	Project Manager: Dean Kitchen	Date: 2/12/2015	Chain of Custody Number:
Address: 391 East 620 South	Telephone Number (Area Code)/Fax Number: 801-492-9106	Lab Number:	Page 1 of 1
City: American Fork; State: Ut; Zip Code: 84003	Site Contact: Logan Shumway	Lab Contact:	
Project Name and Location (State): Energy Fuels 2015 1st Quarter	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Solid	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	U-Nat	Ra-226	Ra-228	Th-228	Th-230	Th-232	Lead-210	Special Instructions/ Conditions of Receipt
R1 Dryer BH filter and beaker	02/10/15	10:00	X										X	X	X	X	X	X	X	M569E
R1 SYC Scrubber filter and beaker	2/9,10/15	14:00	X										X	X	X	X	X	X	X	M569J
R2 SYC Scrubber filter and beaker	2/10,11/15	11:00	X										X	X	X	X	X	X	X	M569K
J5B170405																				
SDG-49291																				
Due 3-17-15																				
J5B170405																				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other as per method

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	2/12/15	14:00	1. Received By: J. Friesz [signature] TALR	2/17/15	0935
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments: When Complete Email to: Dean or Paul tetco@tetco-ut.com

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 2/17/15 0935 Container GM Screen Result: (Airlock) 0 cpm Initials[JF]
Sample GM Screen Result (Sample Receiving) 20 cpm Initials[JF]

Client: DEN SDG #: 49291 SAF #: _____ NA[✓]

Lot Number: J5B170405

Chain of Custody # N/A

Shipping Container ID or Air Bill Number : _____ NA[✓]

Samples received inside shipping container/cooler/box Yes [✓] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [✓]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [✓]
3. Cooler temperature: _____ °C NA [✓]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [✓] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 3
7. Containers received: 3x filter; 3x 250 mlg
8. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
9. Samples have: ____tape ____hazard labels ____custody seals [✓] appropriate sample labels
10. Matrix: [✓] A (FLT, Wipe, Solid, Soil) ____I (Water) [✓] S (Air, Niosh 7400) [✓] T (Biological, Ni-63)
11. Samples: po 2-17-15
    [✓] are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [✓]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
14. Description of anomalies (include sample numbers): NA[✓]
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [✓]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: [signature] Date: 2-17-15

Client Notification needed? Yes [ ] No [ ] Date: _____
By: _____
Person contacted: _____

[✓] No action necessary, process as is

Project Manager [signature] Date 2/17/15

LS-023 Rev. 17, 05/13

APPENDIX D

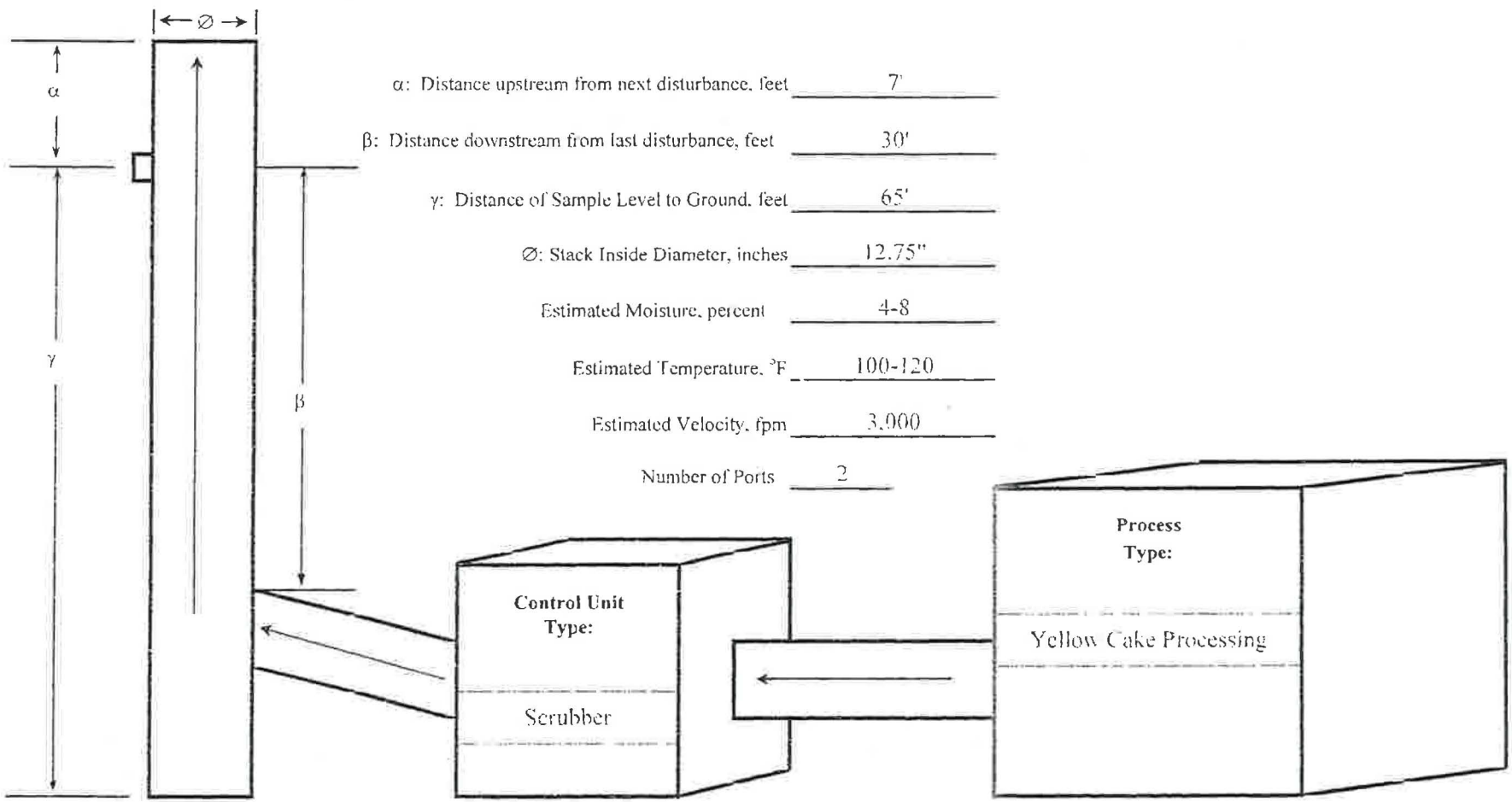
South Yellow Cake Scrubber
- Figure 1. Facility Schematic Representation

Yellow Cake Dryer Baghouse
- Figure 2. Facility Schematic Representation

Process Data
- South Yellow Cake (Scrubber Flow Rates)
- Yellow Cake Dryer Baghouse (Δ p readings on Field Sheet)

Facility: Energy Fuels Resources

Stack Identification: South Yellow Cake Scrubber



α: Distance upstream from next disturbance, feet 7'

β: Distance downstream from last disturbance, feet 30'

γ: Distance of Sample Level to Ground, feet 65'

∅: Stack Inside Diameter, inches 12.75"

Estimated Moisture, percent 4-8

Estimated Temperature, °F 100-120

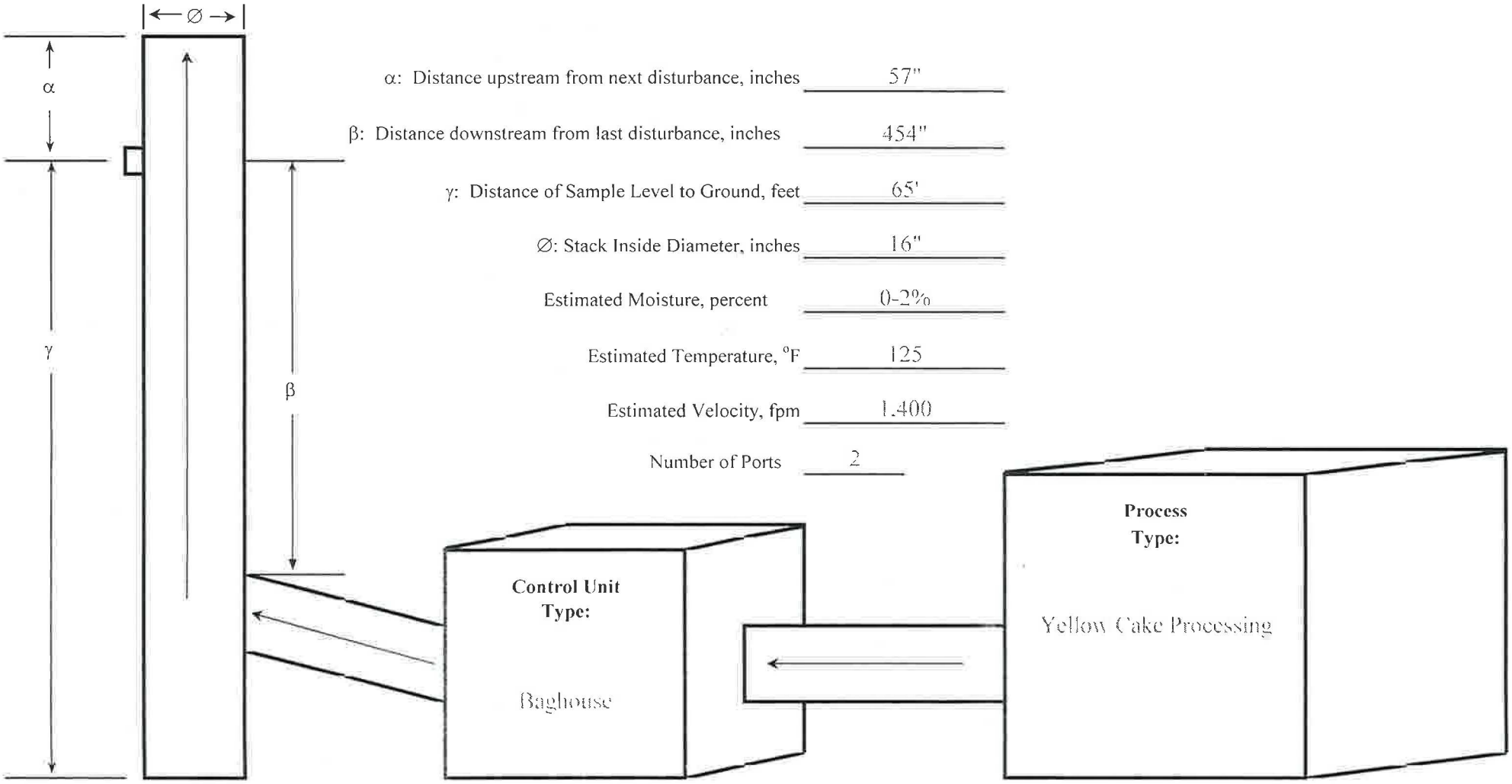
Estimated Velocity, fpm 3,000

Number of Ports 2

Figure 1. Facility Schematic Representation

Facility: Denison Mines

Stack Identification: Baghouse



α: Distance upstream from next disturbance, inches 57"

β: Distance downstream from last disturbance, inches 454"

γ: Distance of Sample Level to Ground, feet 65'

∅: Stack Inside Diameter, inches 16"

Estimated Moisture, percent 0-2%

Estimated Temperature, °F 125

Estimated Velocity, fpm 1,400

Number of Ports 2

Figure 2. Facility Schematic Representation

Run 1

Energy Fuels Resources, Blanding, UT Process Data

Source: South Yellow Cake		Date: 2/9, 10/15	
	Scrubber Flow GPM		
Time	#1	#2	ΔP
14:15	28.8	29.9	8.4
14:45	21.30	28.8	7.9
15:15	21.40	29.9	7.4
15:45	21.50	29.7	7.2
16:15	21.20	29.8	12.0
16:45	21.20	29.8	11.9
17:15	21.50	29.8	10.3
17:45	21.55	29.8	9.9
7:45	19.70	29.8	7.6
8:15	19.70	29.8	11.3
8:45	19.9	29.8	10.1
9:15	19.9	29.8	10.7
9:45	20.3	29.8	10.1
10:15	20.2	29.8	10.2
10:45	20.5	29.8	10.1
[illegible]	20.6	[illegible]	[illegible]
[illegible]	20.6	[illegible]	[illegible]
12:15	20.6	29.8	13.9
12:30	21.4	29.0	9.0

RUN 2

Energy Fuels Resources, Blanding, UT Process Data

Source: South Yellow Cake		Date: 2-10,11-2015	
	Scrubber Flow GPM		
Time	#1	#2	ΔP
13:00	21.5	29.8	9.5
13:30	21.5	29.8	10.1
14:00	21.6	29.8	10.3
14:30	20.6	30.0	9.0
15:00	21.0	29.9	10.4
15:30	22.1	30.0	9.2
16:00	22.1	29.9	9.3
16:30	22.0	29.9	9.3
8:00	20.4	30.0	10.7
8:30	20.3	29.9	10.4
9:00	20.4	30.0	10.5
9:30	20.1	29.5	10.7
10:00	20.2	29.5	10.7
10:30	20.3	29.5	10.7
11:00	20.4	29.5	10.7
11:20	20.9	29.5	10.6

APPENDIX E

Calibration of the console dry gas meter(s), pitot tubes, nozzles diameters, and temperature sensors were carried out in accordance with the procedures outlined in the Quality Assurance Handbook. The appropriate calibration data are presented in the following pages. The nozzle calibrations are recorded on the first page of the field data sheets.

Figure 3 Schematic of Method 5/114 Sampling Train
Meter Box Calibration Data and Calculations Forms
Post-test Dry Gas Meter Calibration Data Forms
Type S Pitot Tube Inspection Data
Sample Box Temperature Sensor Calibration

METHOD 5 DRY GAS METER CALIBRATION USING CRITICAL ORIFICES

1) Select three critical orifices to calibrate the dry gas meter which bracket the expected operating range.
2) Record barometric pressure before and after calibration procedure.
3) Run at tested vacuum (from Orifice Calibration Report), for a period of time necessary to achieve a minimum total volume of 5 cubic feet.
4) Record data and information in the GREEN cells, YELLOW cells are calculated.

2015 Pre-Calibration

DATE: 12/8/14 | METER SERIAL #: 27863 | BAROMETRIC PRESSURE (in Hg): INITIAL 25.70, FINAL 25.70, AVG (P_{bar}) 25.70

METER PART #: Console 4 | CRITICAL ORIFICE SET SERIAL #: 1453S | EQUIPMENT ID #: Console #4

IF Y VARIATION EXCEEDS 2.00%, ORIFICE SHOULD BE RECALIBRATED

ORIFICE #	RUN #	K' FACTOR (AVG)	TESTED VACUUM (in Hg)	DGM READINGS (FT^3) INITIAL	DGM READINGS (FT^3) FINAL	DGM READINGS (FT^3) NET (V_m)	TEMPERATURES °F AMBIENT	DGM INLET INITIAL	DGM INLET FINAL	DGM OUTLET INITIAL	DGM OUTLET FINAL	DGM AVG	ELAPSED TIME (MIN) θ	DGM ΔH (in H_2O)	(1) V_m (STD)	(2) V_{cr} (STD)	(3) Y	Y VARIATION (%)	$\Delta H_@$
30	1	0.8137	13	573.119	581.125	8.006	69	75	75	77	80	76.75	7.50	2.60	6.8162	6.8212	1.001		1.505
	2	0.8137	13	581.125	601.927	20.802	69	76	75	76	80	76.75	19.50	2.60	17.7106	17.7350	1.001		1.505
	3	0.8137	13	601.927	608.315	6.388	69	72	77	75	82	76.50	6.00	2.60	5.4412	5.4569	1.003		1.506
																AVG =	1.002	0.04	
19	1	0.5317	12	533.619	539.875	6.256	65	67	76	68	69	70.00	9.00	1.10	5.3712	5.3690	1.000		1.493
	2	0.5317	12	539.875	549.649	9.774	65	76	76	68	71	72.75	14.00	1.10	8.3483	8.3517	1.000		1.485
	3	0.5317	12	549.649	555.546	5.897	65	68	71	68	69	69.00	8.50	1.10	5.0726	5.0707	1.000		1.496
																AVG =	1.000	-0.14	
12	1	0.3307	13	555.579	561.120	5.541	69	60	62	63	65	62.50	13.00	0.40	4.8160	4.8052	0.998		1.431
	2	0.3307	13	561.120	566.840	5.720	69	60	62	62	65	62.25	13.50	0.40	4.9740	4.990	1.003		1.432
	3	0.3307	13	566.840	572.762	5.922	69	62	62	62	65	62.75	14.00	0.40	5.1447	5.1748	1.006		1.431
																AVG =	1.002	0.10	

USING THE CRITICAL ORIFICES AS CALIBRATION STANDARDS:

The following equations are used to calculate the standard volumes of air passed through the DGM, V_m (std), and the critical orifice, V_{cr} (std), and the DGM calibration factor, Y. These equations are automatically calculated in the spreadsheet above.

AVERAGE DRY GAS METER CALIBRATION FACTOR, Y = 1.001

AVERAGE $\Delta H_@$ = 1.476

(1) $$Vm_{(std)} = K_1 * Vm * \frac{Pbar + (\Delta H / 13.6)}{Tm}$$

= Net volume of gas sample passed through DGM, corrected to standard conditions

K_1 = 17.64 °R/in. Hg (English), 0.3858 °K/mm Hg (Metric)

T_m = Absolute DGM avg. temperature (°R - English, °K - Metric)

(2) $$Vcr_{(std)} = K' * \frac{Pbar * \Theta}{\sqrt{Tamb}}$$

= Volume of gas sample passed through the critical orifice, corrected to standard conditions

T_{amb} = Absolute ambient temperature (°R - English, °K - Metric)

K' = Average K' factor from Critical Orifice Calibration

(3) $$Y = \frac{Vcr_{(std)}}{Vm_{(std)}}$$

= DGM calibration factor

$$\Delta H_@ = \left(\frac{0.75\,\theta}{V_{cr}(std)}\right)^2 \Delta H \left(\frac{V_m(std)}{V_m}\right)$$

Temperature Sensors

	Reference °F	In °F	Out °F
Ice Bath	33	33	33
Ambient Air	62	62	62
Boiling Water	202	203	203

METHOD 5 DRY GAS METER CALIBRATION USING CRITICAL ORIFICES

1) Select three critical orifices to calibrate the dry gas meter which bracket the expected operating range.
2) Record barometric pressure before and after calibration procedure.
3) Run at tested vacuum (from Orifice Calibration Report), for a period of time necessary to achieve a minimum total volume of 5 cubic feet.
4) Record data and information in the GREEN cells, YELLOW cells are calculated.

2015 Pre-Calibration

DATE: 12/8/14
METER PART #: Console 6
METER SERIAL #: 26144
CRITICAL ORIFICE SET SERIAL #: 1453S
BAROMETRIC PRESSURE (in Hg): INITIAL 25.29 | FINAL 25.29 | AVG (P_{bar}) 25.29
EQUIPMENT ID #: Console #6

IF Y VARIATION EXCEEDS 2.00%, ORIFICE SHOULD BE RECALIBRATED

ORIFICE #	RUN #	K' FACTOR (AVG)	TESTED VACUUM (in Hg)	DGM READINGS (FT^3) INITIAL	DGM READINGS (FT^3) FINAL	DGM READINGS (FT^3) NET (V_m)	TEMPERATURES °F AMBIENT	DGM INLET INITIAL	DGM INLET FINAL	DGM OUTLET INITIAL	DGM OUTLET FINAL	DGM AVG	ELAPSED TIME (MIN) θ	DGM ΔH (in H_2O)	(1) V_m (STD)	(2) V_{cr} (STD)	(3) Y	Y VARIATION (%)	$\Delta H_@$
30	1	0.8137	12	647.0	655.937	8.937	75	69	79	70	82	75	8.50	2.90	7.5194	7.5645	1.006		1.733
	2	0.8137	12	655.937	665.455	9.518	75	70	82	73	83	77	9.00	2.90	7.9784	8.0095	1.004		1.727
	3	0.8137	12	665.455	681.418	15.963	75	73	83	77	89	80.5	15.00	2.90	13.2942	13.3491	1.004		1.715
																AVG =	1.005	0.26	
19	1	0.5317	12	681.70	687.935	6.235	75	74	70	72	77	73.25	9.00	1.20	5.2374	5.2337	0.999		1.677
	2	0.5317	12	687.935	694.499	6.564	75	72	77	74	84	76.75	9.50	1.20	5.4778	5.5244	1.009		1.666
	3	0.5317	12	694.499	701.440	6.941	75	74	84	76	84	79.50	10.00	1.20	5.7629	5.8152	1.009		1.657
																AVG =	1.006	0.36	
12	1	0.3307	12	701.521	707.439	5.918	75	77	80	78	80	78.75	13.50	0.43	4.9094	4.8828	0.995		1.534
	2	0.3307	12	707.439	715.795	8.356	75	78	80	81	85	81.00	19.00	0.43	6.9030	6.8720	0.996		1.527
	3	0.3307	12	715.795	721.525	5.730	75	81	85	82	85	83.25	13.00	0.43	4.7140	4.7019	0.997		1.521
																AVG =	0.996	-0.62	

USING THE CRITICAL ORIFICES AS CALIBRATION STANDARDS:
The following equations are used to calculate the standard volumes of air passed through the DGM, V_m (std), and the critical orifice, V_{cr} (std), and the DGM calibration factor, Y. These equations are automatically calculated in the spreadsheet above.

AVERAGE DRY GAS METER CALIBRATION FACTOR, Y = **1.002**

AVERAGE $\Delta H_@$ = **1.640**

(1) $$Vm_{(std)} = K_1 * Vm * \frac{Pbar + (\Delta H/13.6)}{Tm}$$

= Net volume of gas sample passed through DGM, corrected to standard conditions
K_1 = 17.64 °R/in. Hg (English), 0.3858 °K/mm Hg (Metric)
T_m = Absolute DGM avg. temperature (°R - English, °K - Metric)

(2) $$Vcr_{(std)} = K' * \frac{Pbar * \Theta}{\sqrt{Tamb}}$$

= Volume of gas sample passed through the critical orifice, corrected to standard conditions
T_{amb} = Absolute ambient temperature (°R - English, °K - Metric)
K' = Average K' factor from Critical Orifice Calibration

(3) $$Y = \frac{Vcr_{(std)}}{Vm_{(std)}}$$

= DGM calibration factor

$$\Delta H_@ = \left(\frac{0.75\,\theta}{V_{cr}(std)}\right)^2 \Delta H \left(\frac{V_m(std)}{V_m}\right)$$

Temperature Sensors

Reference °F	In °F	Out °F
33	33	33
68	67	68
202	202	202

METHOD 5 DRY GAS METER CALIBRATION USING CRITICAL ORIFICES

1) Select three critical orifices to calibrate the dry gas meter which bracket the expected operating range
2) Record barometric pressure before and after calibration procedure
3) Run at tested vacuum (from Orifice Calibration Report), for a period of time necessary to achieve a minimum total volume of 5 cubic feet
4) Record data and information in the GREEN cells, YELLOW cells are calculated

Energy Fuels
South Yellow Cake Dryer

DATE:	2/12/2015	METER SERIAL #:	27863	BAROMETRIC PRESSURE (in Hg):	INITIAL 25.70	FINAL 25.70	AVG (P_{bar}) 25.70	IF Y VARIATION EXCEEDS 2.00%, ORIFICE SHOULD BE RECALIBRATED
METER PART #:	Console 4	CRITICAL ORIFICE SET SERIAL #:	1453S	EQUIPMENT ID #:	Console #4			

ORIFICE #	RUN #	K' FACTOR (AVG)	TESTED VACUUM (in Hg)	DGM READINGS (FT^3) INITIAL	DGM READINGS (FT^3) FINAL	DGM READINGS (FT^3) NET (V_m)	TEMPERATURES °F AMBIENT	DGM INLET INITIAL	DGM INLET FINAL	DGM OUTLET INITIAL	DGM OUTLET FINAL	DGM AVG	ELAPSED TIME (MIN) θ	DGM ΔH (in H_2O)	(1) V_m (STD)	(2) V_{cr} (STD)	(3) Y	Y VARIATION (%)	$\Delta H_@$
	1					.0						0							
	2	0				.0						0							
	3	0				.0						0.00							
																AVG =			
19	1	0.5317	13	350.501	356.614	6.113	75	55	60	77	86	69.50	9.00	1.10	5.2534	5.3185	1.012		1.523
	2	0.5317	13	356.614	362.435	5.821	75	60	62	85	78	71.25	8.50	1.10	4.9860	5.0231	1.007		1.518
	3	0.5317	13	362.435	367.940	5.505	75	62	64	78	75	69.75	8.00	1.10	4.7286	4.7276	1.000		1.522
																AVG =	1.007	0.52	
25	1	0.6808	13	368.50	373.876	5.376	60	69	70	71	78	72.00	6.00	1.95	4.6094	4.6050	0.999		1.597
	2	0.6808	13	373.876	379.494	5.618	60	70	72	78	80	75.00	6.00	1.95	4.7899	4.6050	0.961		1.588
	3	0.6808	13	379.494	386.059	6.565	60	72	72	80	75	74.75	7.50	1.95	5.5999	5.7563	1.028		1.588
																AVG =	0.996	-0.52	

USING THE CRITICAL ORIFICES AS CALIBRATION STANDARDS:
The following equations are used to calculate the standard volumes of air passed through the DGM, V_m (std), and the critical orifice, V_{cr} (std), and the DGM calibration factor, Y. These equations are automatically calculated in the spreadsheet above.

AVERAGE DRY GAS METER CALIBRATION FACTOR, Y = **1.001**

AVERAGE $\Delta H_@$ = **1.556**

(1) $$Vm_{(std)} = K_1 * Vm * \frac{Pbar + (\Delta H / 13.6)}{Tm}$$

= Net volume of gas sample passed through DGM, corrected to standard conditions
K_1 = 17.64 °R/in. Hg (English), 0.3858 °K/mm Hg (Metric)
T_m = Absolute DGM avg. temperature (°R - English, °K - Metric)

(2) $$Vcr_{(std)} = K' * \frac{Pbar * \Theta}{\sqrt{Tamb}}$$

= Volume of gas sample passed through the critical orifice, corrected to standard conditions
T_{amb} = Absolute ambient temperature (°R - English, °K - Metric)
K' = Average K' factor from Critical Orifice Calibration

(3) $$Y = \frac{Vcr_{(std)}}{Vm_{(std)}}$$

= DGM calibration factor

$$\Delta H_@ = \left(\frac{0.75\,0}{V_{cr}(std)}\right)^2 \Delta H \left(\frac{V_m(std)}{V_m}\right)$$

Temperature Sensors

	Reference °F	In °F	Out °F
Ice Bath	33	33	33
Ambient Air	62	62	62
Boiling Water	202	203	203

METHOD 5 DRY GAS METER CALIBRATION USING CRITICAL ORIFICES

1) Select three critical orifices to calibrate the dry gas meter which bracket the expected operating range.
2) Record barometric pressure before and after calibration procedure.
3) Run at tested vacuum (from Orifice Calibration Report), for a period of time necessary to achieve a minimum total volume of 5 cubic feet.
4) Record data and information in the GREEN cells, YELLOW cells are calculated.

Quality - Service - Reliability

Energy Fuels
Yellowcake Baghouse

DATE:	2/12/2015	METER SERIAL #:	26144	BAROMETRIC PRESSURE (in Hg):	INITIAL 25.70	FINAL 25.70	AVG (P_{bar}) 25.70	IF Y VARIATION EXCEEDS 2.00%,
METER PART #:	Console 6	CRITICAL ORIFICE SET SERIAL #:	1453S	EQUIPMENT ID #.	Console #6			ORIFICE SHOULD BE RECALIBRATED

ORIFICE #	RUN #	K' FACTOR (AVG)	TESTED VACUUM (in Hg)	DGM READINGS (FT^3) INITIAL	DGM READINGS (FT^3) FINAL	DGM READINGS (FT^3) NET (V_m)	TEMPERATURES °F AMBIENT	DGM INLET INITIAL	DGM INLET FINAL	DGM OUTLET INITIAL	DGM OUTLET FINAL	DGM AVG	ELAPSED TIME (MIN) θ	DGM ΔH (in H_2O)	(1) V_m (STD)	(2) V_{cr} (STD)	(3) Y	Y VARIATION (%)	$\Delta H_@$
19	1	0.5317	12			.0						0							
	2	0.5317	12			.0						0							
	3	0.5317	12			.0						0							
																AVG =			
25	1	0.6808	12	62.105	68.284	6.179	74	66	72	90	91	79.75	7.00	2.10	5.2241	5.3016	1.015		1.741
	2	0.6808	12	68.284	74.071	5.787	74	72	76	91	90	82.25	6.50	2.10	4.8701	4.9229	1.011		1.733
	3	0.6808	12	74.071	80.805	6.734	74	76	79	90	92	84.25	7.50	2.10	5.6462	5.6803	1.006		1.727
																AVG =	1.011	0.00	
	1					.0						0.00							
	2					.0						0.00							
	3					.0						0.00							
																AVG =			

USING THE CRITICAL ORIFICES AS CALIBRATION STANDARDS:
The following equations are used to calculate the standard volumes of air passed through the DGM, V_m (std), and the critical orifice, V_{cr} (std), and the DGM calibration factor, Y. These equations are automatically calculated in the spreadsheet above.

AVERAGE DRY GAS METER CALIBRATION FACTOR, Y = 1.011

AVERAGE $\Delta H_@$ = 1.734

(1) $$Vm_{(std)} = K_1 * Vm * \frac{Pbar + (\Delta H / 13.6)}{Tm}$$

= Net volume of gas sample passed through DGM, corrected to standard conditions
K_1 = 17.64 °R/in. Hg (English), 0.3858 °K/mm Hg (Metric)
T_m = Absolute DGM avg. temperature (°R - English, °K - Metric)

(2) $$Vcr_{(std)} = K' * \frac{Pbar * \Theta}{\sqrt{Tamb}}$$

= Volume of gas sample passed through the critical orifice, corrected to standard conditions
T_{amb} = Absolute ambient temperature (°R - English, °K - Metric)
K' = Average K' factor from Critical Orifice Calibration

(3) $$Y = \frac{Vcr_{(std)}}{Vm_{(std)}}$$

= DGM calibration factor

$$\Delta H_@ = \left(\frac{0.75\,0}{V_{cr}(std)}\right)^2 \Delta H \left(\frac{V_m(std)}{V_m}\right)$$

Temperature Sensors

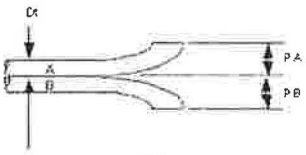
Reference °F	In °F	Out °F
33	34	34
67	66	66
121	120	120

Type S Pitot Tube Inspection Data

Date: 12/11/2014

Pitot Tube Identification: 18 G

Technician: A. Moore



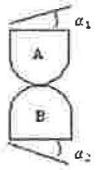
Dt= 0.375 in

Is $P_A = P_B$? Yes

Is $1.05 \cdot D_t \le P_A$ & $P_B \le 1.50 \cdot D_t$? Yes

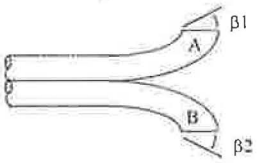
P_A = 0.452 in.

P_B = 0.452 in.



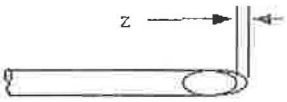
$\alpha_1 < 10^o$ α_1 = 1 °

$\alpha_2 < 10^o$ α_2 = 2 °

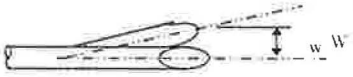


$\beta_1 < 5^o$ β_1 = 0 °

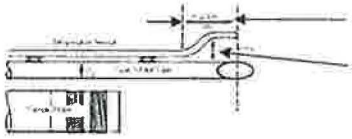
$\beta_2 < 5^o$ β_2 = 1 °



$Z \le 0.125$ in. Z = 0.016 in.

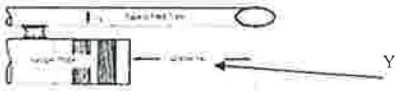


$W \le 0.03125$ in. W = 0.008 in.



W > 3 inches W = 6 3/4 in.

Z > 3/4 inch Z = 1 in.



$Y \ge 3$ inches Y = 3 1/2 in

The pitot tube meets the specifications for a calibration factor of 0 84? Yes

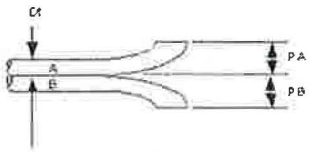
Temperature Sensor Calibration				
Reference: Omega CL3512A				
Probe	Continuity Check			Yes
	Heat Check 248			Yes
	Temperature Source (Medium)	Temperature Reference (°F)	Temperature Sensor (°F)	Temperature Difference (°F)
Probe	AIR	68	69	1
Stack	AIR	71	71	0
	ICE WATER	34	34	0
	BOIL WATER	204	205	1
	SILICONE OIL			

Type S Pitot Tube Inspection Data

Date: 12/12/2014

Pitot Tube Identification: 27 G

Technician: K. McNamara



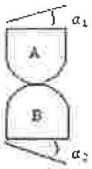
Dt= 0.375 in

Is $P_A = P_B$? Yes

Is $1.05 \cdot D_t \le P_A$ & $P_B \le 1.50 \cdot D_t$? Yes

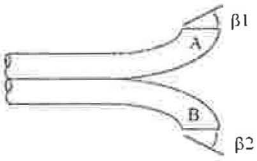
P_A = 0.443 in

P_B = 0.443 in



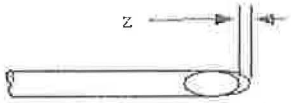
$\alpha_1 < 10°$ α_1 = 3 °

$\alpha_2 < 10°$ α_2 = 2 °



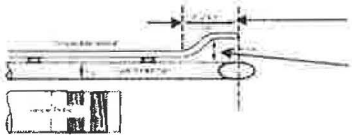
$\beta_1 < 5°$ β_1 = 1 °

$\beta_2 < 5°$ β_2 = 1 °



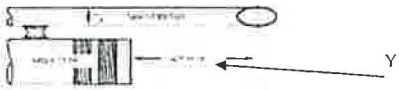
$Z \le 0.125$ in. Z = 0.062 in.

$W \le 0.03125$ in W = 0.007 in.



W > 3 inches W = 7 in.

Z > 3/4 inch Z = 1.12 in



$Y \ge 3$ inches Y = 3.12 in.

The pitot tube meets the specifications for a calibration factor of 0.84? Yes

Temperature Sensor Calibration				
Reference: Omega CL3512A				
Probe	Continuity Check			Yes
	Heat Check 248			Yes
	Temperature Source (Medium)	Temperature Reference (°F)	Temperature Sensor (°F)	Temperature Difference (°F)
Probe	AIR	66	68	2
Stack	AIR	66	67	1
	ICE WATER	33	34	1
	BOIL WATER	204	204	0
	SILICONE OIL			

TETCO

Sample Box Temperature Sensor Calibration

Date: 12/12/14 Calibrator: Alex Moore Reference: Omega CL3512A

Unit ID	Thermocouple Location	Temperature Source (Medium)	Temperature Reference (°F)	Temperature Sensor (°F)	Temperature Difference (°F)
A	Oven	Water	33	34	1
		Water	204	206	2
	Oven (4)	Water	33	32	-1
		Water	204	205	1
	Impinger Out	Water	33	34	1
		Water	204	206	2
B	Oven	Water	33	34	1
		Water	204	206	2
	Oven (4)	Water	33	32	-1
		Water	204	204	0
	Impinger Out	Water	33	34	1
		Water	204	205	1
C	Oven	Water	33	34	1
		Water	204	206	2
	Oven (4)	Water	33	33	0
		Water	204	204	0
	Impinger Out	Water	33	35	2
		Water	204	203	-1
D	Oven	Water	33	33	0
		Water	204	206	2
	Oven (4)	Water	33	33	0
		Water	204	204	0
	Impinger Out	Water	33	35	2
		Water	204	203	-1
E	Oven	Water	33	34	1
		Water	204	204	0
	Oven (4)	Water	33	33	0
		Water	204	203	-1
	Impinger Out	Water	33	35	2
		Water	204	204	0
F	Oven	Water	33	32	-1
		Water	204	204	0
	Oven (4)	Water	33	31	-2
		Water	204	203	-1
	Impinger Out	Water	33	34	1
		Water	204	203	-1
	Impinger Out G	Water	33	35	2
		Water	204	203	-1
	Impinger Out H	Water	33	35	2
		Water	204	203	-1
	Impinger Out I	Water	33	35	2
		Water	204	204	0
	Impinger Out J	Water	33	35	2
		Water	204	203	-1
	Impinger Out K	Water	33	35	2
		Water	204	204	0

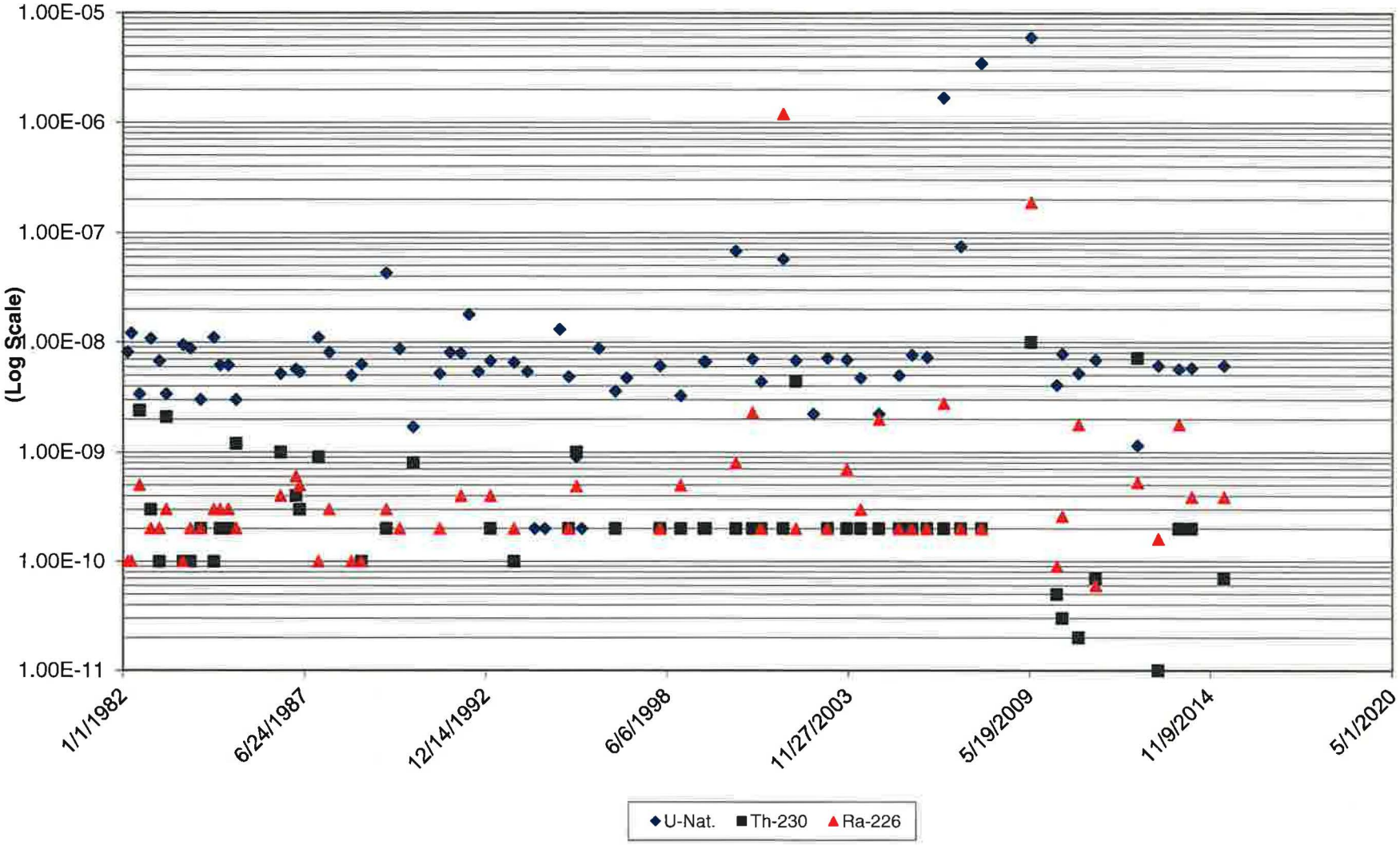
APPENDIX F

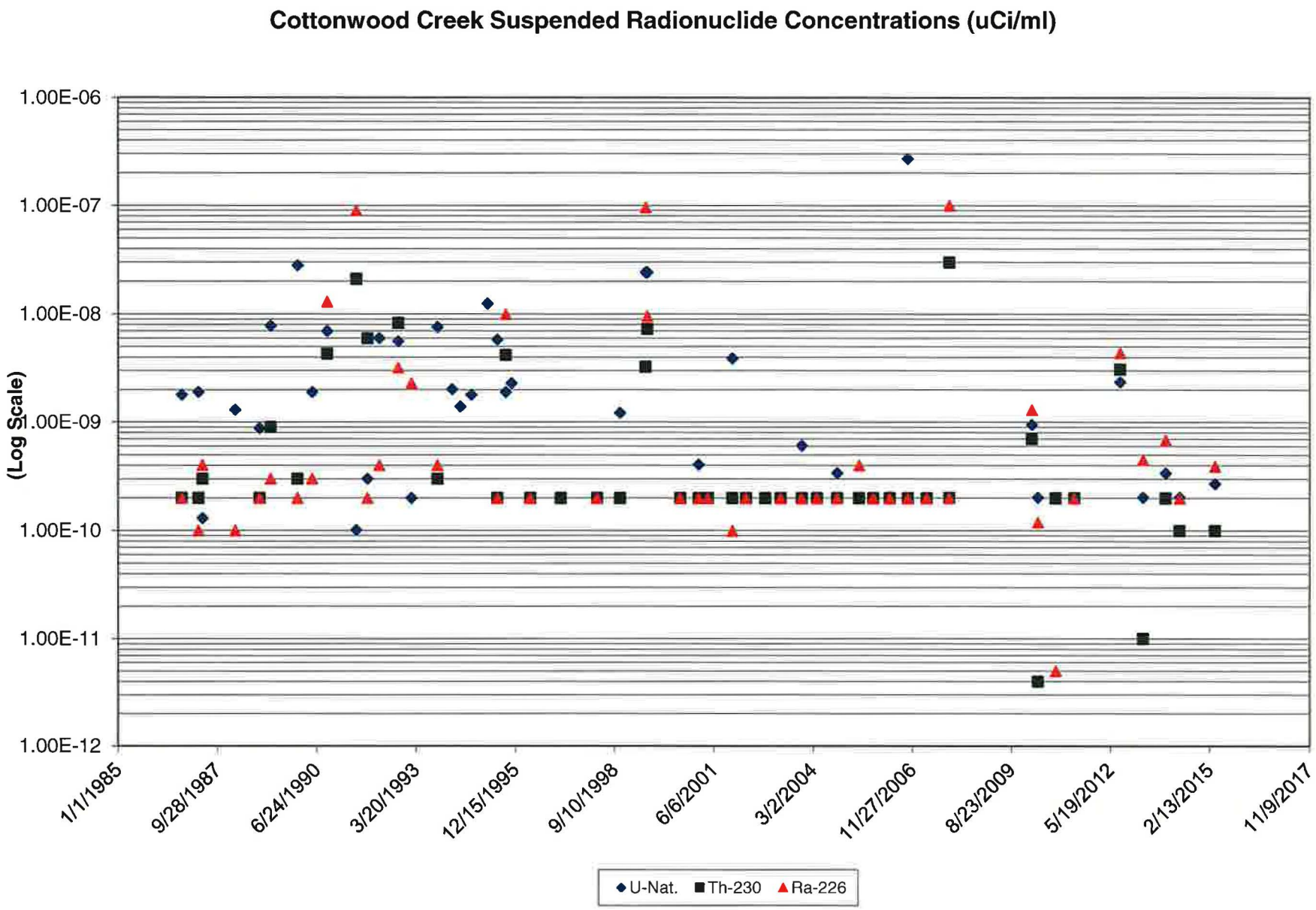
The testing followed the same procedures as outlined in previous protocols and tests at this facility.

ATTACHMENT H

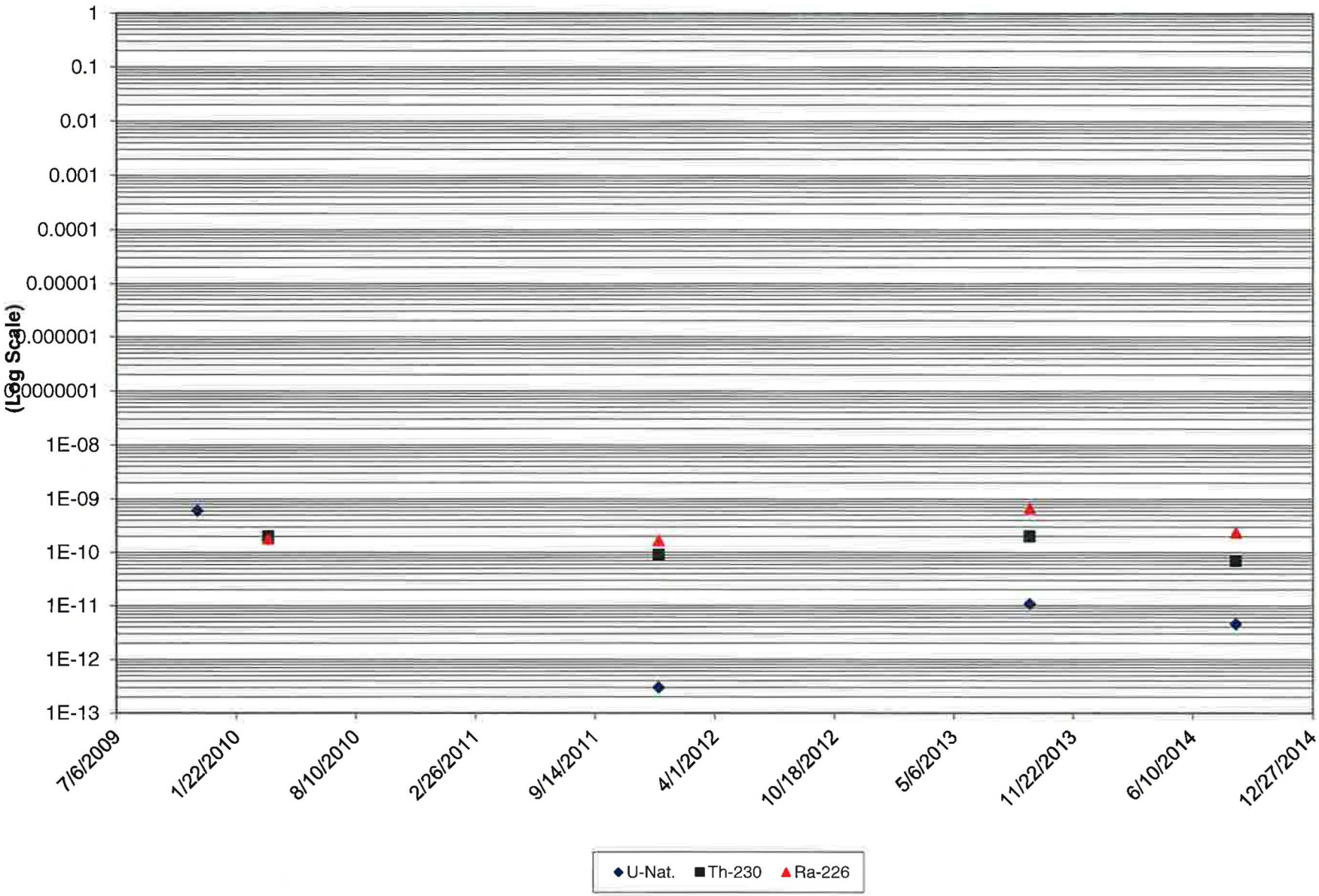
SURFACE WATER GRAPHS AND FIELD DATA SHEETS

Cottonwood Creek Dissolved Radionuclide Concentrations (uCi/ml)

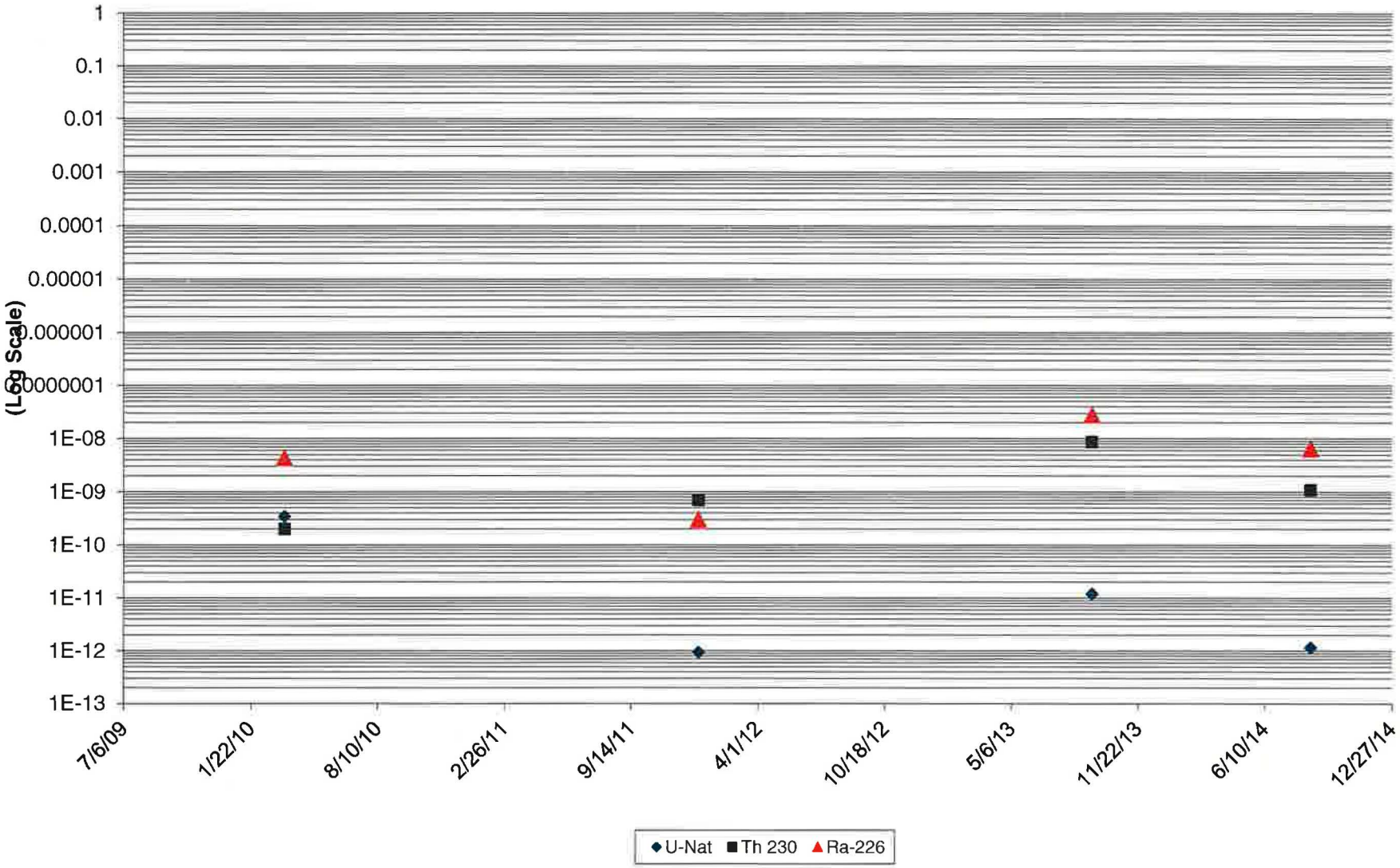



Cottonwood Creek Suspended Radionuclide Concentrations (uCi/ml)
(Log Scale)
1.00E-06
1.00E-07
1.00E-08
1.00E-09
1.00E-10
1.00E-11
1.00E-12
1/1/1985
9/28/1987
6/24/1990
3/20/1993
12/15/1995
9/10/1998
6/6/2001
3/2/2004
11/27/2006
8/23/2009
5/19/2012
2/13/2015
11/9/2017
U-Nat.
Th-230
Ra-226

Westwater Creek Dissolved Radionuclide Concentrations
(uCi/ml)



Westwater Creek Suspended Radionuclide Concentrations (uCi/ml)



Attachment A

FIELD WATER ANALYSIS SURFACE WATER
WHITE MESA MILL

LOCATION (Circle one) Cottonwood Creek Westwater Canyon Other (describe)_____

DATE: 2/12/15 BY: G.P. (Sampler's initials)

pH BUFFER 7.0 7.0 pH BUFFER 4.0 4.0

SPECIFIC CONDUCTIVITY 999 µMHOs

STEAM DEPTH: 2 inches

pH of WATER 6.86 TEMP 6.75

COND µmhos 735 COND µmhos 742

pH Units 6.80 pH units 6.85

Temp °C 6.79 Temp °C 6.75

COND µmhos 736 COND µmhos 745

pH units 6.90 pH units 6.91

Temp °C 6.74 Temp °C 6.74

Comments:

Arrived on site at 1005. Tanner and Garrin present to collect samples
Grab samples performed straight from creek at 1010 Left site at 1013

2/12/15
1010

Attachment A

FIELD WATER ANALYSIS SURFACE WATER
WHITE MESA MILL

LOCATION (Circle one): Cottonwood Creek (Westwater Canyon) Other (describe)_____

DATE: 2/12/15 BY: G.P. (Sampler's initials)

pH BUFFER 7.0 7.0 pH BUFFER 4.0 4.0

SPECIFIC CONDUCTIVITY 999 µMHOs

STEAM DEPTH: 0

pH of WATER _____ TEMP _____

COND µmhos _____ COND µmhos _____

pH Units _____ pH units _____

Temp °C _____ Temp °C _____

COND µmhos _____ COND µmhos _____

pH units _____ pH units _____

Temp °C _____ Temp °C _____

Comments:

Arrived on site at 1030. Creek was dry. See attached photo

3/16/15 - Arrived on site at 1300. Creek was dry. See photo.

6/16/15 - Arrived on site at 1330. Ground was damp but no water to sample.

2/12/15
1030

3/16/15
1300

6/16/15
1330

ANALYTICAL SUMMARY REPORT

February 20, 2015

Energy Fuels Resources (USA) Inc
225 Union Blvd Ste 600
Lakewood, CO 80228-1826

Work Order: C15020478

Project Name: 1st Quarter Surface Water 2015

Energy Laboratories, Inc. Casper WY received the following 1 sample for Energy Fuels Resources (USA) Inc on 2/13/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15020478-001	Cottonwood Creek	02/12/15 10:10	02/13/15	Aqueous	Solids, Total Dissolved Solids, Total Suspended

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Kathryn Hamre
Report Proofing Specialist

Digitally signed by
Kathy Hamre
Date: 2015.02.20 11:58:03 -07:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Surface Water 2015
Sample Delivery Group: C15020478

Report Date: 02/20/15

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Surface Water 2015
Lab ID: C15020478-001
Client Sample ID: Cottonwood Creek

Report Date: 02/20/15
Collection Date: 02/12/15 10:10
DateReceived: 02/13/15
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	427	mg/L		10		A2540 C	02/17/15 14:13 / alp
Solids, Total Suspended TSS @ 105 C	35	mg/L		10		A2540 D	02/17/15 09:52 / alp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Surface Water 2015

Report Date: 02/20/15
Work Order: C15020478

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: TDS150217A
Lab ID: MB-1_150217A		Method Blank				Run: BAL-18_150217B				02/17/15 14:08
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	7						
Lab ID: LCS-2_150217A		Laboratory Control Sample				Run: BAL-18_150217B				02/17/15 14:08
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	11	99	90	110			
Lab ID: C15020408-001B DUP		Sample Duplicate				Run: BAL-18_150217B				02/17/15 14:08
Solids, Total Dissolved TDS @ 180 C		325000	mg/L	1000				1.2	5	
Lab ID: C15020452-001A MS		Sample Matrix Spike				Run: BAL-18_150217B				02/17/15 14:10
Solids, Total Dissolved TDS @ 180 C		6640	mg/L	40	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 1st Quarter Surface Water 2015

Report Date: 02/20/15
Work Order: C15020478

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D										Batch: TSS150217A
Lab ID: MB-1_150217A		Method Blank				Run: BAL-18_150217A				02/17/15 09:50
Solids, Total Suspended TSS @ 105 C		2	mg/L	1						
Lab ID: LCS-2_150217A		Laboratory Control Sample				Run: BAL-18_150217A				02/17/15 09:50
Solids, Total Suspended TSS @ 105 C		98.0	mg/L	10	96	80	120			
Lab ID: C15020474-001B DUP		Sample Duplicate				Run: BAL-18_150217A				02/17/15 09:51
Solids, Total Suspended TSS @ 105 C		14.0	mg/L	10					5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Work Order Receipt Checklist

Energy Fuels Resources (USA) Inc C15020478

Login completed by: Tessa Parke
Reviewed by: BL2000\khamre
Reviewed Date: 2/17/2015

Date Received: 2/13/2015
Received by: cjm
Carrier name: Next Day Air

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	4.4°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

CHAIN OF CUSTODY

Samples Shipped to: Energy Laboratories
2393 Salt Creek Hwy
Casper WY, 82601

Contact: Garrin Palmer
Ph: 435 678 4115
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
1st Quarter Surface Water 2015	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
Cottonwood Creek	2/12/2015	1010	Total Dissolved Solids, Total Suspnded Solids

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	2/12/2015 1010		
Garrin Palmer	2/12/15 1010	Cheryl Martin	2/13/15 0945

C15020428

UPS NDA
4.4° C on ice
Intact custody seal
on cooler

Attachment A

FIELD WATER ANALYSIS SURFACE WATER
WHITE MESA MILL

LOCATION (Circle one): Cottonwood Creek Westwater Canyon Other (describe)_____

DATE: 4/6/15 BY: G.P. (Sampler's initials)

pH BUFFER 7.0 7.0 pH BUFFER 4.0 4.0

SPECIFIC CONDUCTIVITY 1000 µMHOs

STEAM DEPTH: 2"

pH of WATER 7.43 TEMP 16.19

COND µmhos 790.6 COND µmhos 793.5

pH Units 7.46 pH units 7.42

Temp °C 16.19 Temp °C 16.19

COND µmhos ~~790.6~~ 791.7 COND µmhos 792.7

pH units 7.41 pH units 7.45

Temp °C 16.20 Temp °C 16.20

Comments:

Arrived on site at 1215. Garrin, Tanner and David present for sampling. Grab samples were collected at 1230. Left site at 1235.

4/6/15
1230

ANALYTICAL SUMMARY REPORT

May 05, 2015

Energy Fuels Resources (USA) Inc
225 Union Blvd Ste 600
Lakewood, CO 80228-1826

Work Order: C15040290

Project Name: 2nd Quarter Surface Water

Energy Laboratories, Inc. Casper WY received the following 1 sample for Energy Fuels Resources (USA) Inc on 4/8/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15040290-001	Cottonwood Creek	04/06/15 12:30	04/08/15	Aqueous	Sample Filtering Uranium, Dissolved Uranium, Suspended Digestion, Total Metals Gross Alpha, Gross Beta Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved Solids, Total Suspended

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Kathryn Hamre
Report Proofing Specialist

Digitally signed by
Kathy Hamre
Date: 2015.05.05 11:43:39 -06:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water
Work Order: C15040290

Report Date:

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water
Lab ID: C15040290-001
Client Sample ID: Cottonwood Creek

Report Date: 05/05/15
Collection Date: 04/06/15 12:30
DateReceived: 04/08/15
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	474	mg/L		10		A2540 C	04/09/15 14:44 / lmc
Solids, Total Suspended TSS @ 105 C	28	mg/L		10		A2540 D	04/10/15 16:20 / lmc
METALS - DISSOLVED							
Uranium	0.0090	mg/L		0.0003		E200.8	04/10/15 23:15 / clm
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	04/15/15 14:49 / smm
RADIONUCLIDES - DISSOLVED							
Gross Alpha	14.8	pCi/L				E900.0	04/14/15 23:49 / trs
Gross Alpha precision (±)	3.6	pCi/L				E900.0	04/14/15 23:49 / trs
Gross Alpha MDC	1.7	pCi/L				E900.0	04/14/15 23:49 / trs
Radium 226	7.8	pCi/L				E903.0	04/20/15 09:39 / dmf
Radium 226 precision (±)	1.5	pCi/L				E903.0	04/20/15 09:39 / dmf
Radium 226 MDC	0.13	pCi/L				E903.0	04/20/15 09:39 / dmf
Thorium 230	0.07	pCi/L	U			E908.0	04/16/15 14:20 / cng
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/16/15 14:20 / cng
Thorium 230 MDC	0.2	pCi/L				E908.0	04/16/15 14:20 / cng
RADIONUCLIDES - SUSPENDED							
Radium 226	0.39	pCi/L				E903.0	04/21/15 06:42 / dmf
Radium 226 precision (±)	0.18	pCi/L				E903.0	04/21/15 06:42 / dmf
Radium 226 MDC	0.18	pCi/L				E903.0	04/21/15 06:42 / dmf
Thorium 230	0.1	pCi/L	U			E908.0	05/01/15 09:55 / cng
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/01/15 09:55 / cng
Thorium 230 MDC	0.2	pCi/L				E908.0	05/01/15 09:55 / cng

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS150409B	
Lab ID: MB-1_150409B		Method Blank				Run: BAL-18_150409B			04/09/15 14:34	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	7						
Lab ID: LCS-2_150409B		Laboratory Control Sample				Run: BAL-18_150409B			04/09/15 14:34	
Solids, Total Dissolved TDS @ 180 C		1140	mg/L	11	103	90	110			
Lab ID: C15040290-001A DUP		Sample Duplicate				Run: BAL-18_150409B			04/09/15 14:44	
Solids, Total Dissolved TDS @ 180 C		477	mg/L	9.8				0.7	5	
Lab ID: C15040290-001A MS		Sample Matrix Spike				Run: BAL-18_150409B			04/09/15 15:05	
Solids, Total Dissolved TDS @ 180 C		1640	mg/L	11	105	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D									Batch: TSS150410A	
Lab ID: MB-1_150410A		Method Blank				Run: BAL-18_150413A			04/10/15 16:18	
Solids, Total Suspended TSS @ 105 C		ND	mg/L	1						
Lab ID: LCS-2_150410A		Laboratory Control Sample				Run: BAL-18_150413A			04/10/15 16:19	
Solids, Total Suspended TSS @ 105 C		94.0	mg/L	10	94	80	120			
Lab ID: C15040301-001B DUP		Sample Duplicate				Run: BAL-18_150413A			04/10/15 16:22	
Solids, Total Suspended TSS @ 105 C		6.00	mg/L	10					5	

- Since the difference between the analytical result for the sample and its duplicate is less than the reporting limit, the RPD variance is not considered significant.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**E200.8**									Analytical Run: ICPMS2-C_150415A	
Lab ID:	**ICV**		Initial Calibration Verification Standard							04/15/15 13:32	
Uranium			0.0491	mg/L	0.00030	98	90	110			
Method:	**E200.8**									Batch: 44367	
Lab ID:	**MB-44367**		Method Blank				Run: ICPMS2-C_150415A			04/15/15 14:39	
Uranium			0.0001	mg/L	9E-06						
Lab ID:	**LCS2-44367**		Laboratory Control Sample				Run: ICPMS2-C_150415A			04/15/15 14:41	
Uranium			0.0935	mg/L	0.00030	93	85	115			
Lab ID:	**C15040251-003AMS**		Sample Matrix Spike				Run: ICPMS2-C_150415A			04/15/15 14:56	
Uranium			1.26E-08	mg/L	0.00030	85	70	130			
Lab ID:	**C15040251-003AMSD**		Sample Matrix Spike Duplicate				Run: ICPMS2-C_150415A			04/15/15 14:58	
Uranium			1.30E-08	mg/L	0.00030	88	70	130		20	
Method:	**E200.8**									Analytical Run: ICPMS4-C_150410A	
Lab ID:	**ICV**		Initial Calibration Verification Standard							04/10/15 17:31	
Uranium			0.0507	mg/L	0.00030	101	90	110			
Method:	**E200.8**									Batch: R198130	
Lab ID:	**LRB**		Method Blank				Run: ICPMS4-C_150410A			04/10/15 17:43	
Uranium			ND	mg/L	9E-06						
Lab ID:	**LFB**		Laboratory Fortified Blank				Run: ICPMS4-C_150410A			04/10/15 17:48	
Uranium			0.0500	mg/L	0.00030	100	85	115			
Lab ID:	**C15040309-002BMS4**		Sample Matrix Spike				Run: ICPMS4-C_150410A			04/10/15 23:50	
Uranium			0.0585	mg/L	0.00030	117	70	130			
Lab ID:	**C15040309-002BMSD**		Sample Matrix Spike Duplicate				Run: ICPMS4-C_150410A			04/10/15 23:56	
Uranium			0.0580	mg/L	0.00030	116	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: GrAB-1996
Lab ID: Th230-GrAB-1996		Laboratory Control Sample				Run: TENNELEC-3_150413A				04/14/15 23:49
Gross Alpha		129	pCi/L		95	80	120			
Lab ID: MB-GrAB-1996	3	Method Blank				Run: TENNELEC-3_150413A				04/14/15 23:49
Gross Alpha		1	pCi/L							
Gross Alpha precision (±)		0.9	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Lab ID: C15040245-001IDUP	3	Sample Duplicate				Run: TENNELEC-3_150413A				04/14/15 23:49
Gross Alpha		35.9	pCi/L					3.8	50.5	
Gross Alpha precision (±)		7.27	pCi/L							
Gross Alpha MDC		0.901	pCi/L							
Lab ID: C15040264-001DMS		Sample Matrix Spike				Run: TENNELEC-3_150413A				04/14/15 23:49
Gross Alpha		110	pCi/L		78	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-7615
Lab ID: MB-RA226-7615	3	Method Blank				Run: BERTHOLD 770-1_150410A				04/20/15 08:05
Radium 226		0.3	pCi/L							
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Lab ID: LCS-RA226-7615		Laboratory Control Sample				Run: BERTHOLD 770-1_150410A				04/20/15 08:05
Radium 226		8.8	pCi/L		83	80	120			
Lab ID: C15040293-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-1_150410A				04/20/15 09:39
Radium 226		19	pCi/L		92	70	130			
Lab ID: C15040293-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_150410A				04/20/15 09:39
Radium 226		17	pCi/L		84	70	130	9.3	49.2	
Method: E903.0										Batch: 44367
Lab ID: C15040290-001DMS		Sample Matrix Spike				Run: TENNELEC-3_150415B				04/21/15 06:42
Radium 226		29	pCi/L		95	70	130			
Lab ID: C15040290-001DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_150415B				04/21/15 06:42
Radium 226		29	pCi/L		96	70	130	1.3	49.2	
Lab ID: LCS-44367		Laboratory Control Sample				Run: TENNELEC-3_150415B				04/21/15 06:42
Radium 226		17.7	pCi/L		89	80	120			
Lab ID: MB-44367	3	Method Blank				Run: TENNELEC-3_150415B				04/21/15 06:42
Radium 226		0.2	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: RA-TH-ISO-2218
Lab ID: LCS-RA-TH-ISO-2218		Laboratory Control Sample				Run: ALPHANALYST_150413A				04/16/15 09:54
Thorium 230		5.8	pCi/L		88	80	120			
Lab ID: C15040290-001CMS		Sample Matrix Spike				Run: ALPHANALYST_150413A				04/16/15 14:20
Thorium 230		15	pCi/L		110	70	130			
Lab ID: C15040290-001CMSD		Sample Matrix Spike Duplicate				Run: ALPHANALYST_150413A				04/16/15 14:20
Thorium 230		13	pCi/L		100	70	130	8.9	48	
Lab ID: MB-RA-TH-ISO-2218	3	Method Blank				Run: ALPHANALYST_150413A				04/16/15 14:20
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E908.0										Batch: R198891
Lab ID: LCS-44367		Laboratory Control Sample				Run: EGG-ORTEC_150428A				05/01/15 09:55
Thorium 230		18	pCi/L		84	80	120			
Lab ID: C15040290-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_150428A				05/01/15 09:55
Thorium 230		15	pCi/L		90	70	130			
Lab ID: C15040290-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_150428A				05/01/15 09:55
Thorium 230		14	pCi/L		86	70	130	4.9	48	
Lab ID: MB-44367	3	Method Blank				Run: EGG-ORTEC_150428A				05/01/15 15:43
Thorium 230		0.2	pCi/L							U
Thorium 230 precision (±)		0.5	pCi/L							
Thorium 230 MDC		1.0	pCi/L							
Lab ID: MB-44466	3	Method Blank				Run: EGG-ORTEC_150428A				05/01/15 15:43
Thorium 230		0.7	pCi/L							U
Thorium 230 precision (±)		0.6	pCi/L							
Thorium 230 MDC		0.9	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 2nd Quarter Surface Water

Report Date: 05/05/15
Work Order: C15040290

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**SW6020**										Batch: 44367
Lab ID:	**MB-44367**		Method Blank				Run: ICPMS2-C_150415A				04/15/15 14:39
Uranium			0.0001	mg/L	9E-06						
Lab ID:	**LCS2-44367**		Laboratory Control Sample				Run: ICPMS2-C_150415A				04/15/15 14:41
Uranium			0.0935	mg/L	8.5E-06	93	85	115			
Lab ID:	**C15040251-001ADIL**		Serial Dilution				Run: ICPMS2-C_150415A				04/15/15 14:52
Uranium			2.78E-11	mg/L	1.5E-10					20	
Lab ID:	**C15040251-003AMS**		Sample Matrix Spike				Run: ICPMS2-C_150415A				04/15/15 14:56
Uranium			1.26E-08	mg/L	1.5E-10	85	75	125			
Lab ID:	**C15040251-003AMSD**		Sample Matrix Spike Duplicate				Run: ICPMS2-C_150415A				04/15/15 14:58
Uranium			1.30E-08	mg/L	1.5E-10	88	75	125	3.0	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

Work Order Receipt Checklist

Energy Fuels Resources (USA) Inc C15040290

Login completed by:	Corinne Wagner	Date Received:	4/8/2015
Reviewed by:	BL2000\khamre	Received by:	amm
Reviewed Date:	4/10/2015	Carrier name:	Next Day Air

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	4.4°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Energy Laboratories
2393 Salt Creek Hwy
Casper WY, 82601

Contact: Garrin Palmer
Ph: 435 678 4115
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
2nd Quarter Surface Water	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
CottonWook Creek	4/6/2015	1230	TDS
			TSS
			Dissolved Gross Alpha
			Suspended U-nat
			Dissolved U-nat
			Suspended Ra-226
			Dissolved Ra-226
			Suspended Th-230
			Dissolved Th-230
			* Samples were not filtered or preserved.

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer Garrin Palmer	4/7/2015 1000		
Relinquished By:(Signature)	**Date/Time**	**Received By:(Signature)**	**Date/Time**
		Francia Martinez	4/8/15 9:25

C15040290

ATTACHMENT I

SOIL SAMPLE GRAPHS, DATA TABLE, LABORATORY RESULTS AND QA/QC

*Soil samples are collected during the third quarter. This attachment has been deliberately left blank.

ATTACHMENT J

RADON MONITORING GRAPHS AND DATA

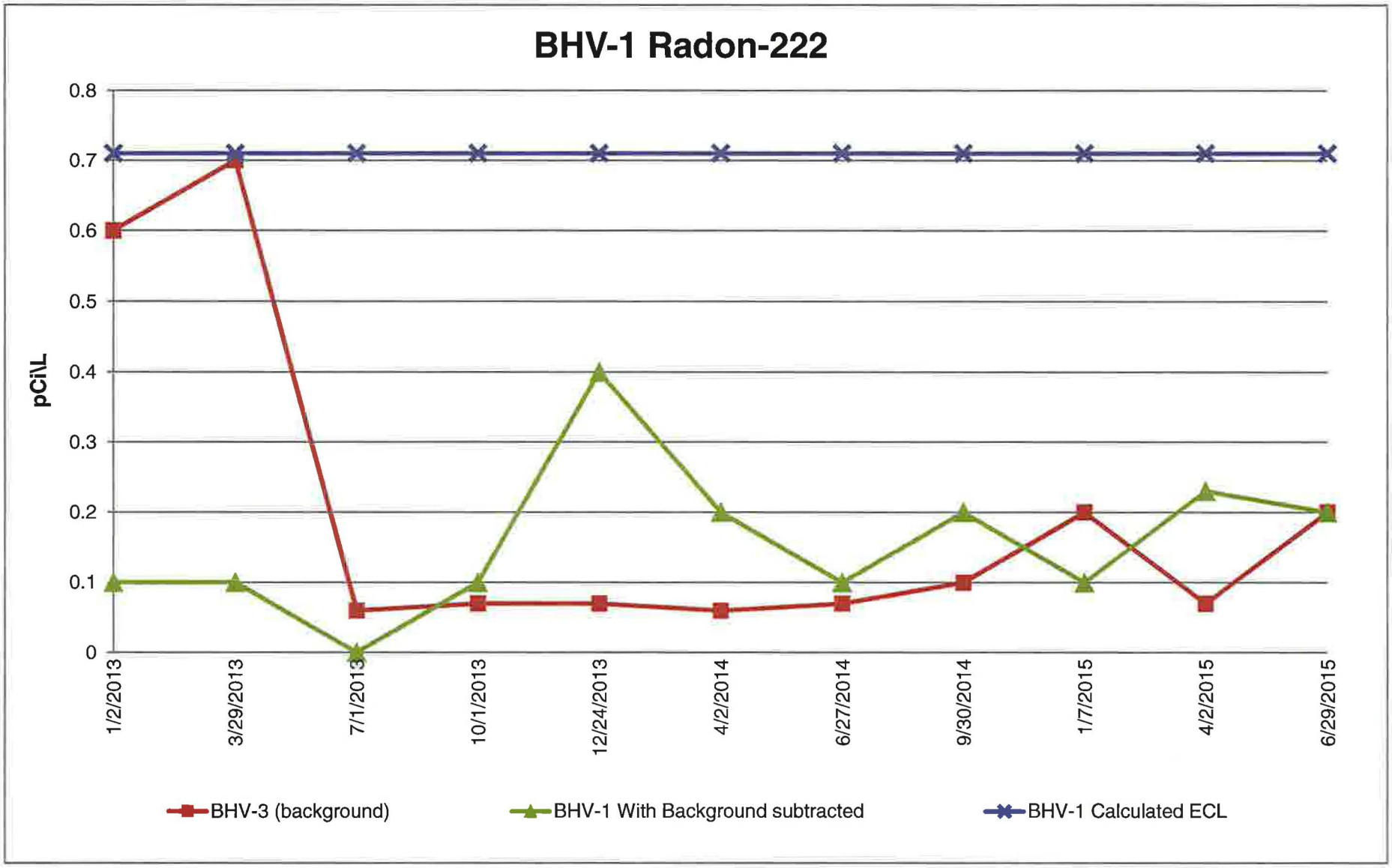
White Mesa Mill Radon Sampling Results*

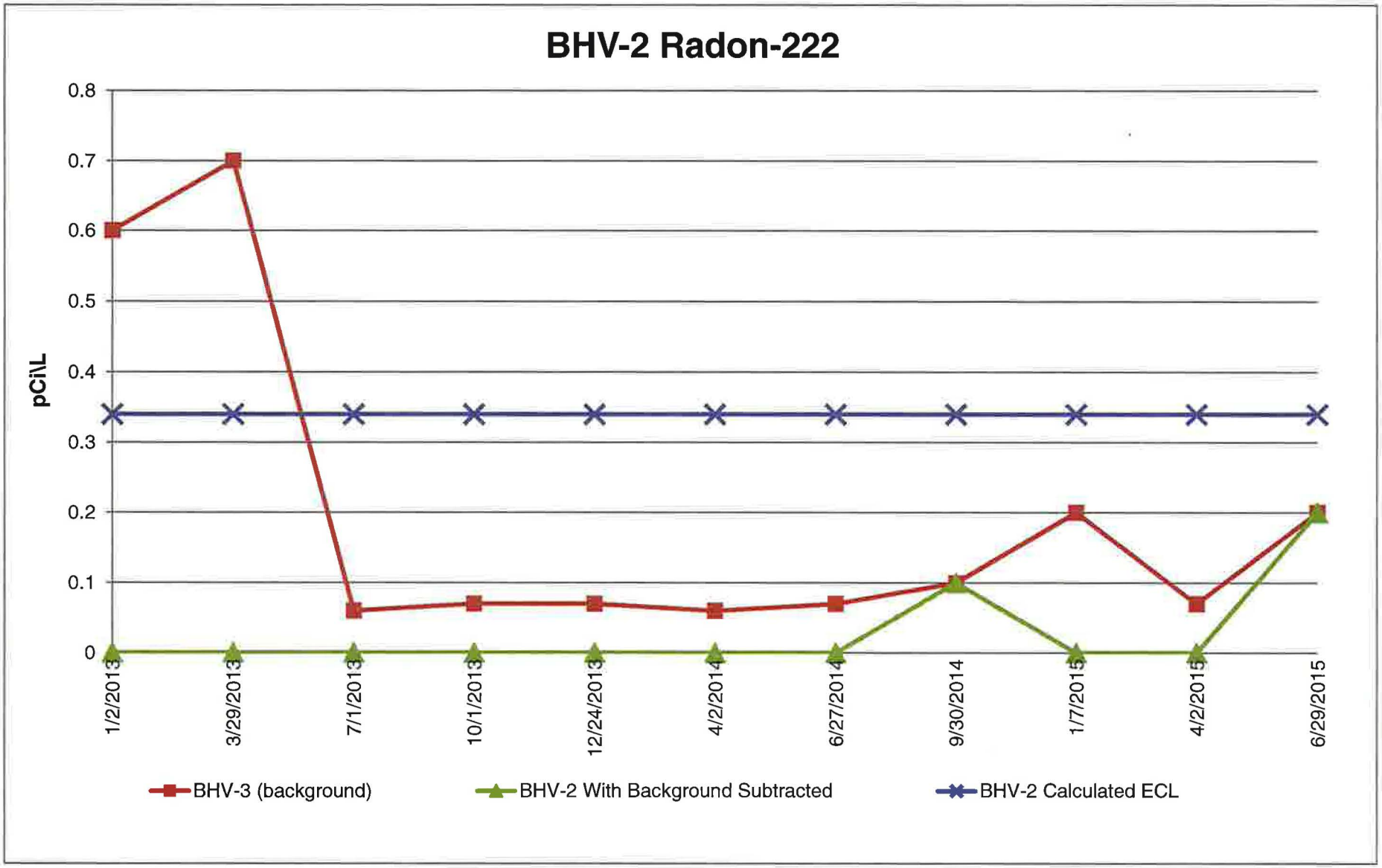
Date	BHV-1 (pCi/L)	BHV-1 Calculated ECL	BHV-2 (pCi-/L)	BHV-2 Calculated ECL	BHV-3 (pCi/L)	BHV-4 (pCi/L)	BHV-4 Calculated ECL	BHV-5 (pCi/L)	BHV-5 Calculated ECL	BHV-6 (pCi/L)	BHV-6 Calculated ECL	BHV-7 (pCi/L)	BHV-7 Calculated ECL	BHV-8 (pCi/L)	BHV-8 Calculated ECL
1/2/2013	0.1	0.71	0	0.34	0.6	0.4	0.5	0	1.43	0.4	0.83	NS	1.12	NS	0.71
3/29/2013	0.1	0.71	0	0.34	0.7	0.3	0.5	0.5	1.43	0.1	0.83	NS	1.12	NS	0.71
7/1/2013	0	0.71	0	0.34	0.06	0	0.5	0	1.43	0	0.83	NS	1.12	NS	0.71
10/1/2013	0.1	0.71	0	0.34	0.07	0	0.5	NA	1.43	0	0.83	NS	1.12	NS	0.71
12/24/2013	0.4	0.71	0	0.34	0.07	0.33	0.5	0.43	1.43	0.73	0.83	NS	1.12	NS	0.71
4/2/2014	0.2	0.71	0	0.34	0.06	0.04	0.5	0.54	1.43	0.24	0.83	NS	1.12	NS	0.71
6/27/2014	0.1	0.71	0	0.34	0.07	0	0.5	0.03	1.43	0.03	0.83	NS	1.12	NS	0.71
9/30/2014	0.2	0.71	0.1	0.34	0.1	0.2	0.5	0.3	1.43	0.2	0.83	NS	1.12	NS	0.71
1/7/2015	0.1	0.71	0	0.34	0.2	0.3	0.5	0.6	1.43	0.2	0.83	0.2	1.12	0.1	0.71
4/2/2015	0.23	0.71	0	0.34	0.07	0.23	0.5	0.43	1.43	0.23	0.83	0.33	1.12	0.03	0.71
6/29/2015	0.2	0.71	0.2	0.34	0.2	0.4	0.5	0.4	1.43	0.3	0.83	0.2	1.12	0.2	0.71

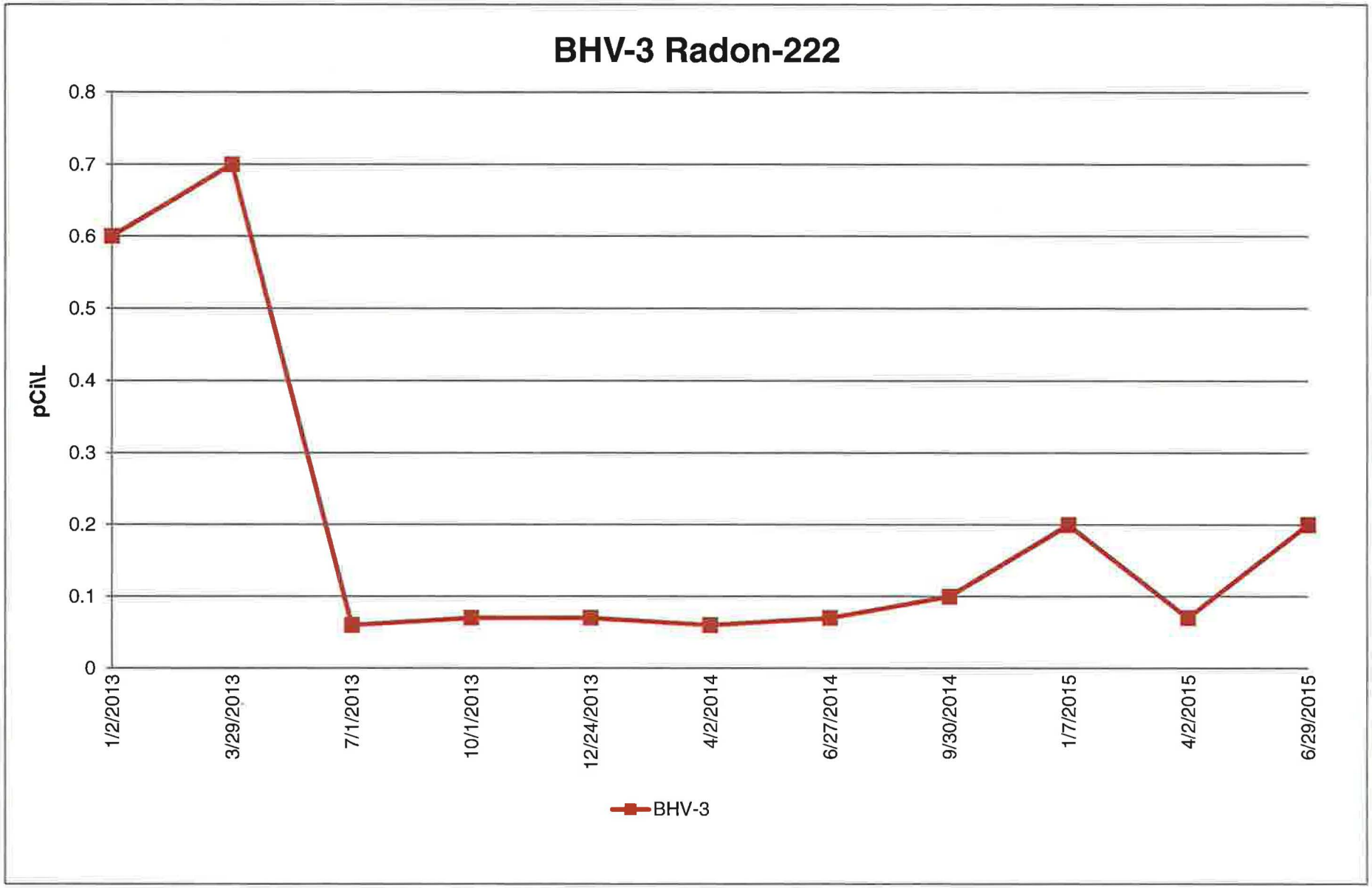
* - Measurements obtained from BHV-3 have been designated as background due to BHV-3's remoteness from the Mill site. The results in the table above are the above-background results with background (BHV-3) subtracted. Any negative values are reported as zero for graphical purposes.

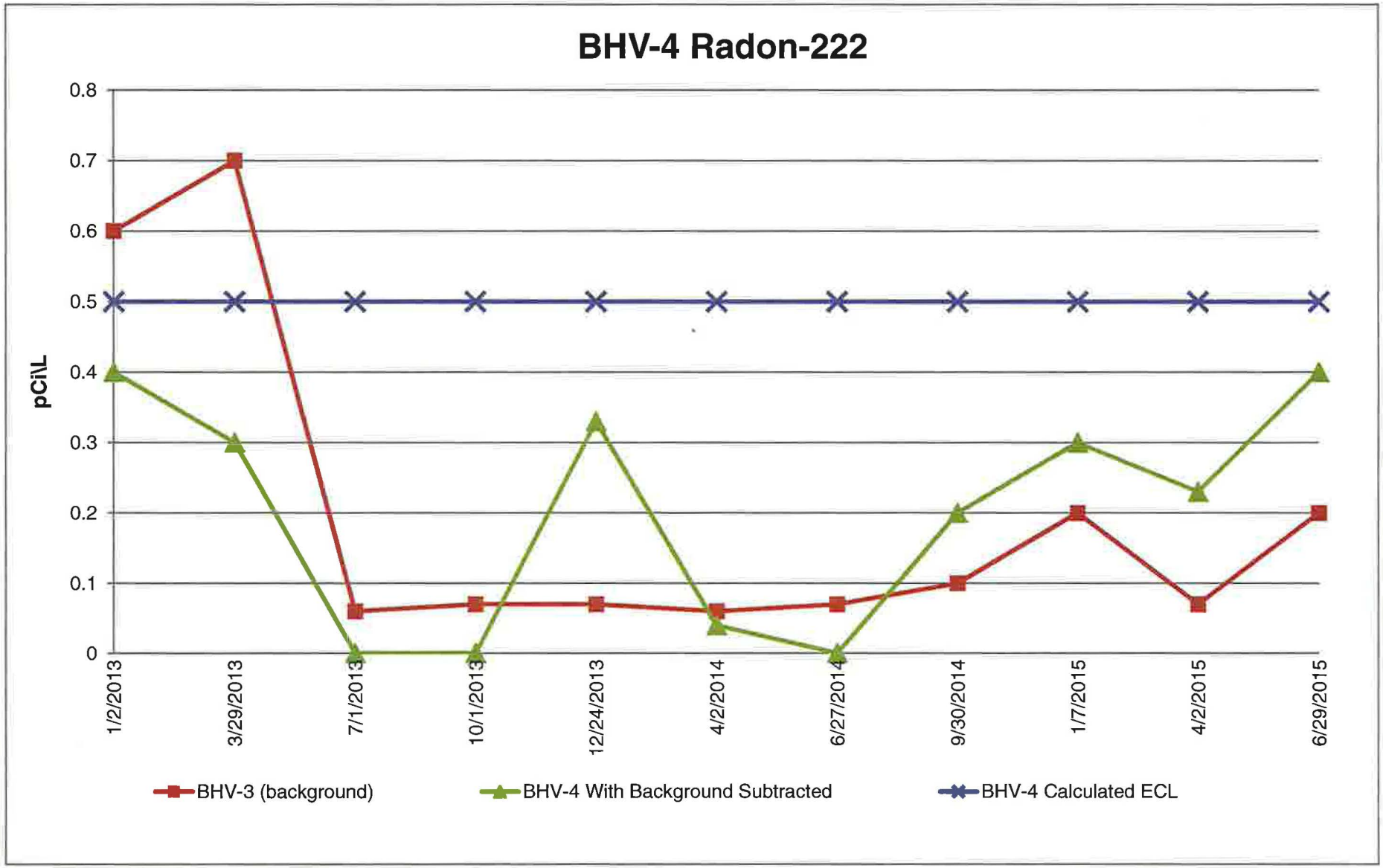
NA - Not Available - the canister was damaged. No data reported.

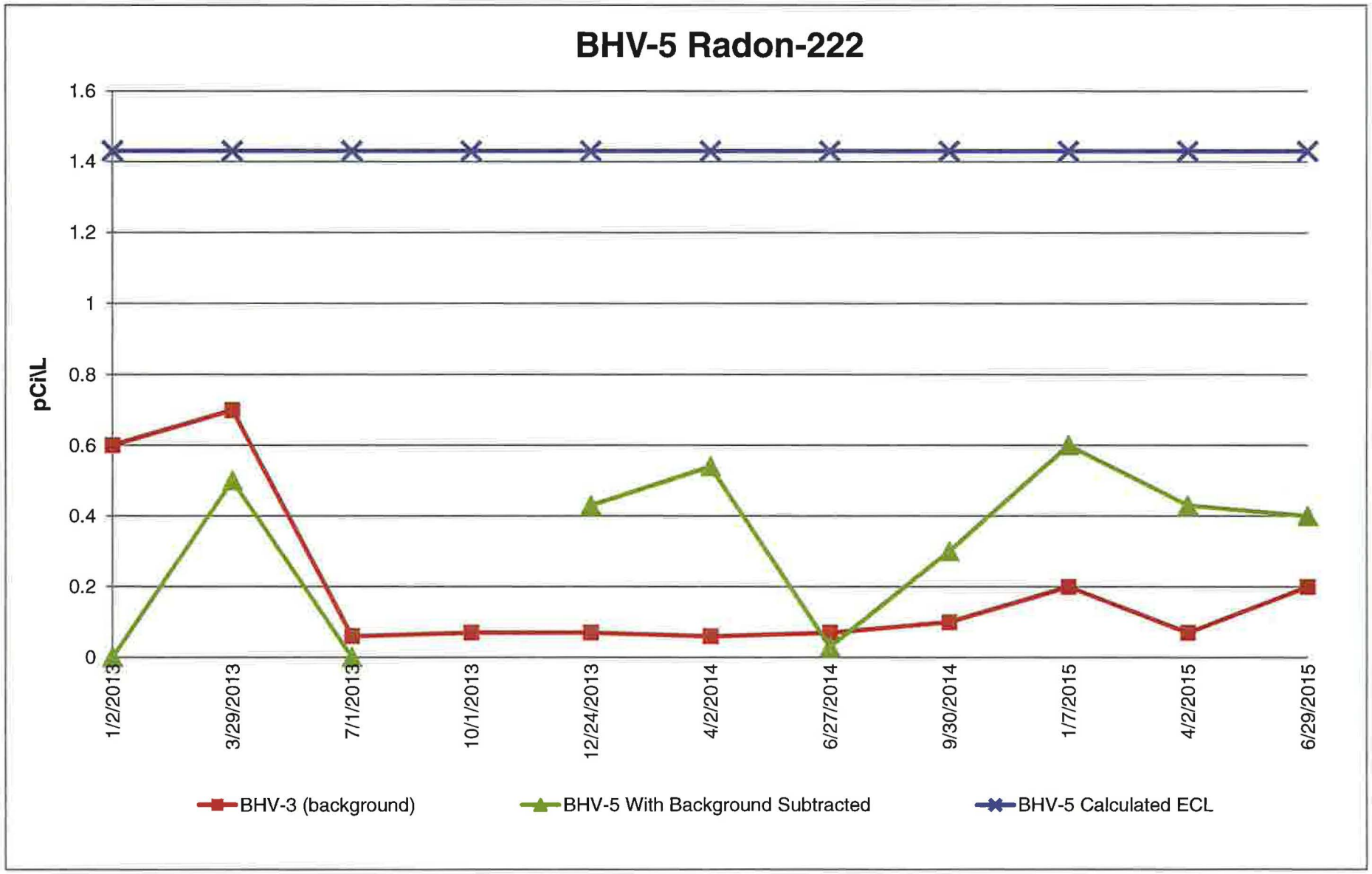
NS - Not Sampled - EFRI installed and began radon sampling at BHV-7 and BHV-8 in the fourth quarter of 2014.

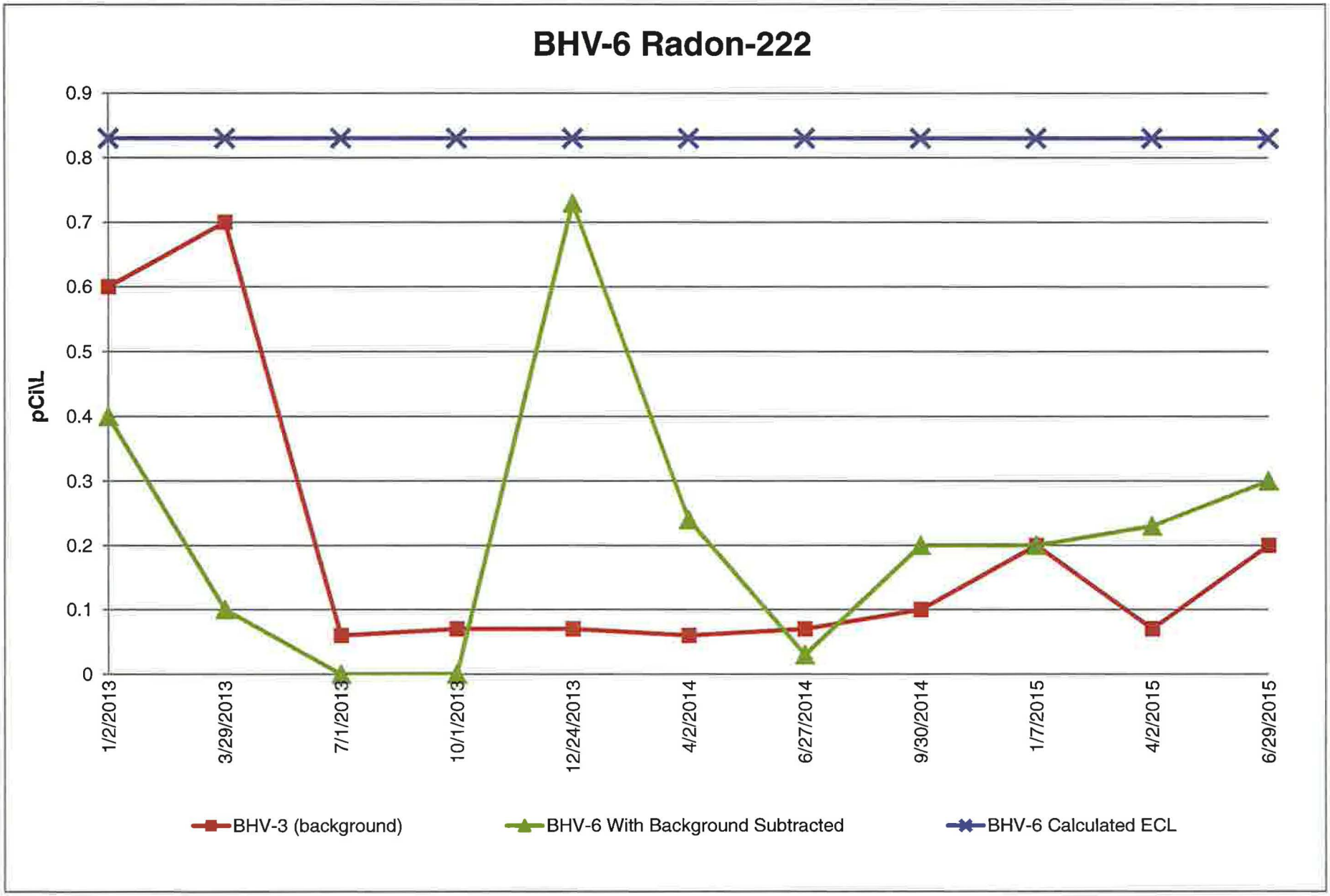

BHV-1 Radon-222
pCi\L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-1 With Background subtracted
BHV-1 Calculated ECL

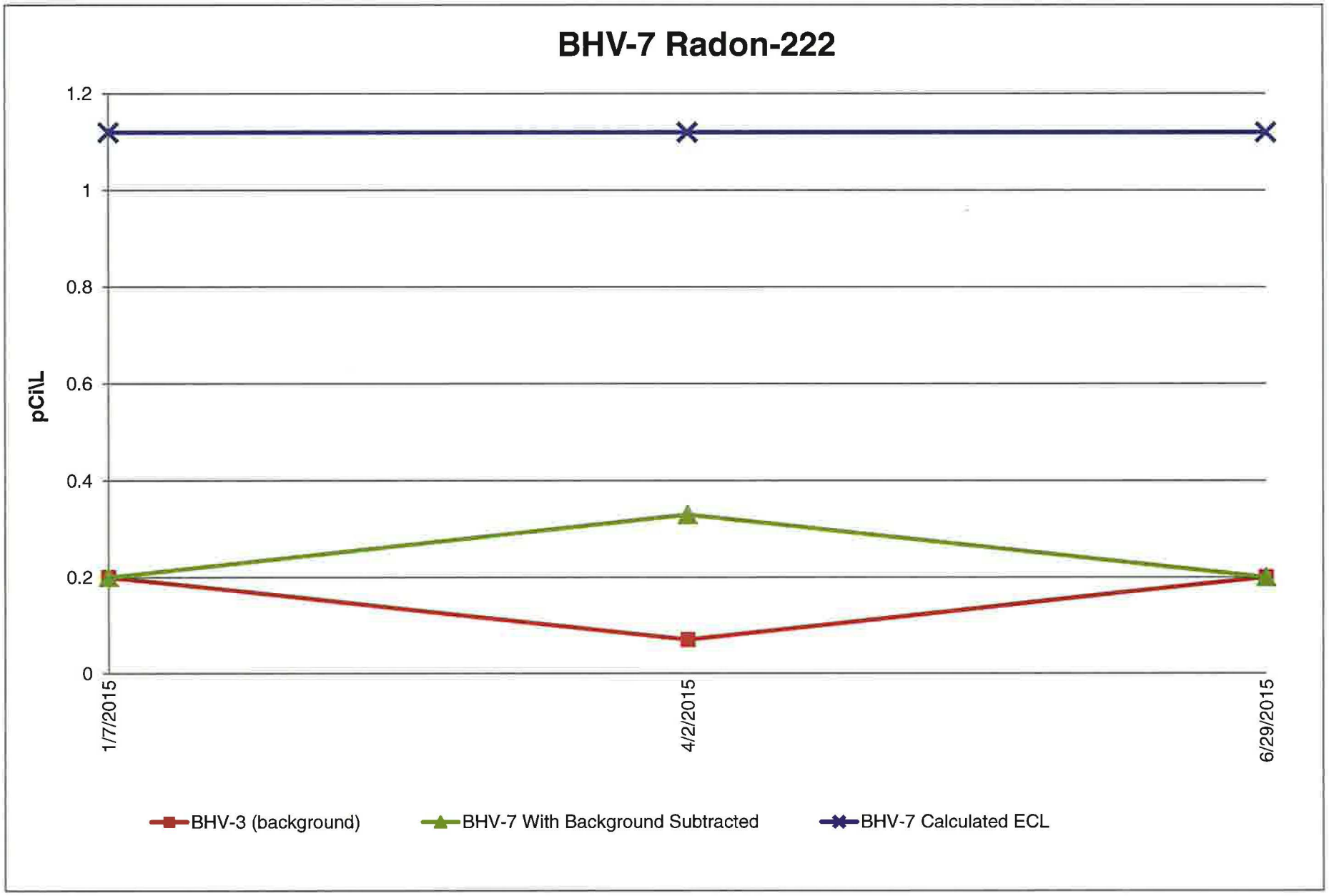

BHV-2 Radon-222
pCi\L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-2 With Background Subtracted
BHV-2 Calculated ECL

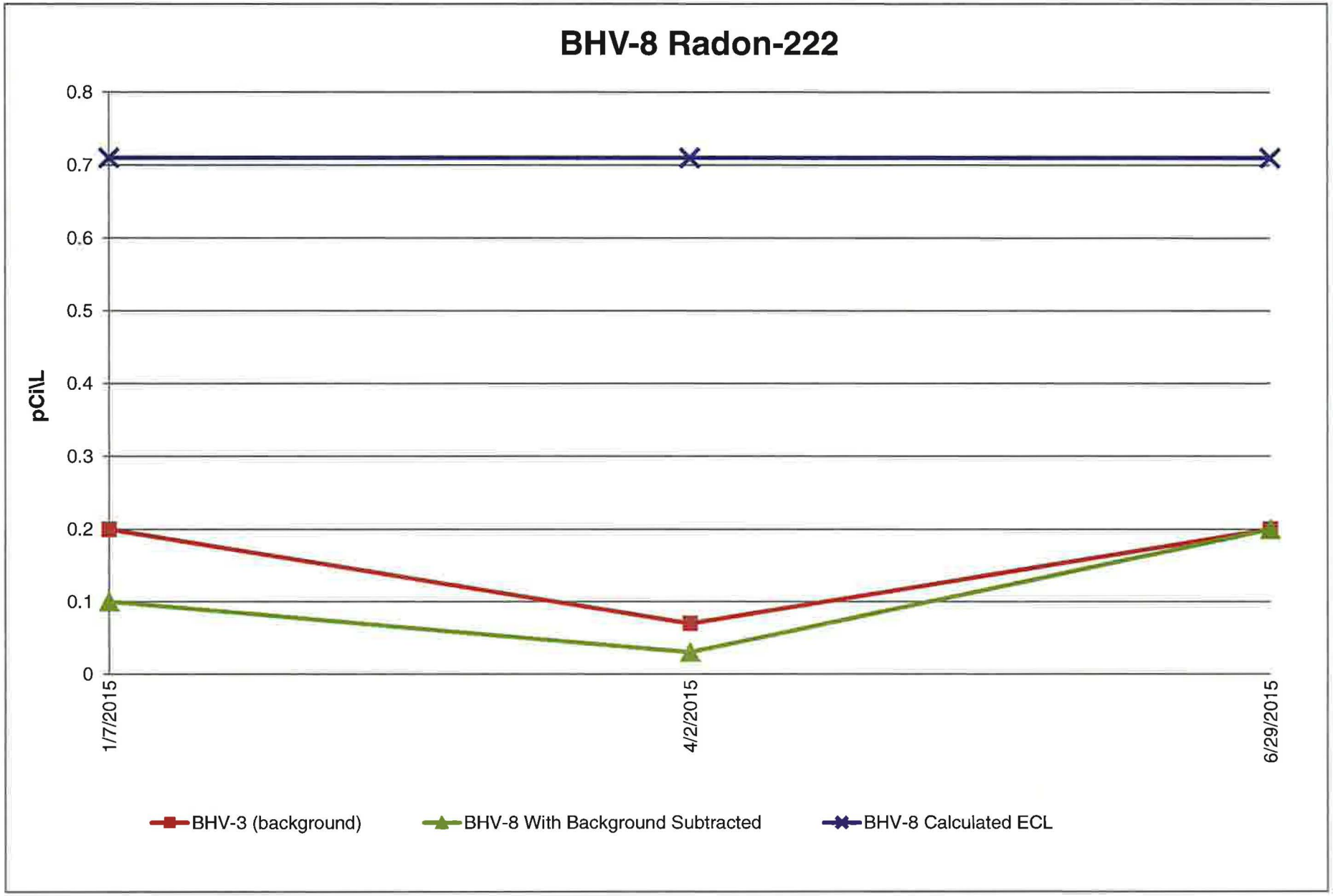

BHV-3 Radon-222
pCi\L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3


BHV-4 Radon-222
pCi\L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-4 With Background Subtracted
BHV-4 Calculated ECL


BHV-5 Radon-222
pCi\L
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-5 With Background Subtracted
BHV-5 Calculated ECL


BHV-6 Radon-222
pCi\L
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/2/2013
3/29/2013
7/1/2013
10/1/2013
12/24/2013
4/2/2014
6/27/2014
9/30/2014
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-6 With Background Subtracted
BHV-6 Calculated ECL


BHV-7 Radon-222
pCi\L
1.2
1
0.8
0.6
0.4
0.2
0
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-7 With Background Subtracted
BHV-7 Calculated ECL


BHV-8 Radon-222
pCi\L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/7/2015
4/2/2015
6/29/2015
BHV-3 (background)
BHV-8 With Background Subtracted
BHV-8 Calculated ECL

ATTACHMENT K

CELL 2 RADON FLUX DATA

National Emission Standards for Hazardous Air Pollutants
2015 Radon Flux Measurement Program

White Mesa Mill
6425 South Highway 191
Blanding, Utah 84511

January 2015 Sampling Results
Cell 2

Prepared for: Energy Fuels Resources (USA) Inc.
6425 S. Highway 191
P.O. Box 809
Blanding, Utah 84511

Prepared by: Tellco Environmental
P.O. Box 3987
Grand Junction, Colorado 81502

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Appendix A. Charcoal Canister Analyses Support Documents

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Appendix C. Radon Flux Sample Laboratory Data, Including Blanks

Appendix D. Sample Locations Map (Figure 2)

1. INTRODUCTION

During January 26-27, 2015 Tellco Environmental, LLC (Tellco) of Grand Junction, Colorado, provided support to Energy Fuels Resources (USA) Inc. (Energy Fuels) to conduct radon flux measurements at its White Mesa Mill site regarding the required National Emission Standards for Hazardous Air Pollutants (NESHAPs) Radon Flux Measurements. These measurements are required of Energy Fuels to show compliance with Federal Regulations (further discussed in Section 3 below). The standard is not an average per facility, but is an average per radon source. The standard allows mill owners or operators the option of either making a single set of measurements to represent the year or making multiple measurements over a one year period (e.g., weekly, monthly, or quarterly intervals).

Prior to 2012, Energy Fuels had been making a single set of measurements to represent the radon flux each year, because the radon levels were maintained below the regulatory standard of 20 picoCuries per square meter per second (pCi/m^2-s); however, when the radon flux levels exceeded the standard, beginning with the June 2012 measurements, Energy Fuels responded by opting to conduct the radon flux measurements on a more frequent basis. Energy Fuels has also placed additional soil cover material over much of Cell 2 to reduce the radon flux levels.

This report presents the radon flux measurements results for Cell 2 for January 2015. Radon flux measurements were also performed for Cell 3 during January 2015; however, the results of that sampling are presented in a separate report. Tellco was contracted to provide radon canisters, equipment, and canister-placement personnel as well as lab analysis of samples collected. Energy Fuels personnel provided support for loading and unloading charcoal from the canisters. This report details the procedures employed by Energy Fuels and Tellco to obtain the results presented in Section 9.0 of this report.

2. SITE DESCRIPTION

The White Mesa Mill facility is located in San Juan County in southeastern Utah, six miles south of Blanding, Utah. The mill began operations in 1980 for the purpose of extracting uranium and vanadium from feed stocks. Processing effluents from the operation are deposited in lined cells, which vary in depth. Cell 1, Cell 4A, and Cell 4B did not require radon flux sampling, as explained in Section 3 below.

Cell 2, which has a total area of approximately 270,624 m^2, has been filled and covered with interim cover. This cell is comprised of one region, an interim soil cover of varying thickness, which requires NESHAPs radon flux monitoring. There was no standing liquid and were no apparent exposed tailings within Cell 2 during this sampling.

Cell 3, which has a total area of approximately 288,858 m^2, is nearly filled with tailings sand and is undergoing pre-closure activities. This cell is comprised of two source regions that require NESHAPs radon monitoring: a soil cover region of varying thickness and an exposed tailings "beaches" region. A small portion of Cell 3 is covered by standing liquid in lower elevation areas.

3. REGULATORY REQUIREMENTS FOR THE SITE

Radon emissions from the uranium mill tailings at this site are regulated by the State of Utah's Division of Radiation Control and administered by the Utah Division of Air Quality under generally applicable standards set by the U.S. Environmental Protection Agency (EPA) for Operating Mills. Applicable regulations are specified in 40 CFR Part 61, Subpart W, National Emission Standards for Radon Emissions from Operating Mill Tailings, with technical procedures in Appendix B. At present, there are no Subpart T uranium mill tailings at this site. These regulations are a subset of the NESHAPs. According to subsection 61.252 Standard, (a) radon-222 emissions to ambient air from an existing uranium mill tailings pile shall not exceed an average of 20 pCi/m^2-s for each pile (or cell). Subsection 61.253, Determining Compliance, states that: "Compliance with the emission standard in this subpart shall be determined annually through the use of Method 115 of Appendix B." Cell 1 is completely covered with standing liquid and therefore no radon flux measurements are required on Cell 1. The repaired Cell 4A, and newly constructed Cell 4B, were both constructed after December 15, 1989 and each was constructed with less than 40 acres surface area. Cell 4A and 4B comply with the requirements of 40 CFR 61.252(b), therefore no radon flux measurements are required on either Cell 4A or 4B.

4. SAMPLING METHODOLOGY

Radon emissions were measured using Large Area Activated Charcoal Canisters (canisters) in conformance with 40 CFR, Part 61, Appendix B, Method 115, Restrictions to Radon Flux Measurements, (EPA, 2014). These are passive gas adsorption sampling devices used to determine the flux rate of radon-222 gas from a surface. The canisters were constructed using a 10-inch diameter PVC end cap containing a bed of 180 grams of activated, granular charcoal. The prepared charcoal was placed in the canisters on a support grid on top of a ½ inch thick layer of foam and secured with a retaining ring under 1½ inches of foam (see Figure 1, page 10).

One hundred sampling locations were distributed throughout Cell 2 (consisting of one region) as depicted on the Sample Locations Map (see Figure 2, Appendix D). Each charged canister was placed directly onto the surface (open face down) and exposed to the surface for 24 hours. Radon gas adsorbed onto the charcoal and the subsequent radioactive decay of the entrained radon resulted in radioactive lead-214 and bismuth-214. These radon progeny isotopes emit characteristic gamma photons that can be detected through gamma spectroscopy. The original total activity of the adsorbed radon was calculated from these gamma ray measurements using calibration factors derived from cross-calibration of standard sources containing known total activities of radium-226 with geometry identical to the counted samples and from the principles of radioactive decay.

After approximately 24 hours, the exposed charcoal was transferred to a sealed plastic sample container (to prevent radon loss and/or further exposure during transport), identified and labeled, and transported to the Tellco laboratory in Grand Junction, Colorado for analysis. Tellco personnel maintained custody of the samples from collection through lab analysis.

Upon completion of on-site activities, the field equipment was alpha and beta-gamma scanned by Energy Fuels Radiation Safety personnel for possible contamination resulting from fieldwork activities. All of the field equipment used was subsequently released for unrestricted use.

5. FIELD OPERATIONS

5.1 Equipment Preparation

All charcoal was dried at 110°C before use in the field. Unused charcoal and recycled charcoal were treated the same. 180-gram aliquots of dried charcoal were weighed and placed in sample containers.

Proper balance operation was verified daily by checking a standard weight. The balance readout agreed with the known standard weight to within ± 0.1 percent.

After acceptable balance check, empty containers were individually placed on the balance and the scale was re-zeroed with the container on the balance. Unexposed and dried charcoal was carefully added to the container until the readout registered 180 grams. The lid was immediately placed on the container and sealed with plastic tape. The balance was checked for readout drift between readings.

Sealed containers with unexposed charcoal were placed individually in the shielded counting well, with the bottom of the container centered over the detector, and the background count rate was documented. Three five-minute background counts were conducted on ten percent of the containers, selected at random to represent the "batch". If the background counts were too high to achieve an acceptable lower limit of detection (LLD), the entire charcoal batch was labeled non-conforming and recycled through the heating/drying process.

5.2 Sample Locations, Identification, and Placement

On January 26, 2015, 100 sampling locations were spread out throughout the Cell 2 covered region. The approximate sampling locations that were established for previous samplings of Cell 2 were used for the placement of the canisters, although the actual sample identification numbers (IDs) are different. An individual ID was assigned to each sample point, using a sequential alphanumeric system indicating the charcoal batch and physical location within the region (e.g., A01…A100). This ID was written on an adhesive label and affixed to the top of the canister. The sample ID, date, and time of placement were recorded on the radon flux measurements data sheets for the set of one hundred measurements.

Prior to placing a canister at each sample location, the retaining ring, screen, and foam pad of each canister were removed to expose the charcoal support grid. A pre-measured charcoal charge was selected from a batch, opened and distributed evenly across the support grid. The canister was then reassembled and placed face down on the surface at each sampling location. Care was exercised not to push the device into the soil surface. The canister rim was "sealed" to the surface using a berm of local borrow material.

Five canisters (blanks) were similarly processed and these canisters were kept inside an airtight plastic bag during the 24-hour testing period.

5.3 Sample Retrieval

On January 27, 2015 at the end of the 24-hour testing period, all canisters were retrieved, disassembled and each charcoal sample was individually poured through a funnel into a container. Identification numbers were transferred to the appropriate container, which was sealed and placed in a

box for transport. Retrieval date and time were recorded on the same data sheets as the sample placement information. The blank samples were similarly processed.

All 100 charcoal samples from Cell 2 covered region were successfully retrieved and containerized during the retrieval and unloading process.

5.4 Environmental Conditions

A rain gauge and thermometer were placed at Cell 2 to monitor rainfall and air temperatures during sampling; additionally, Energy Fuels maintains an onsite rain gauge.

In accordance with 40 CFR, Part 61, Appendix B, Method 115:

- Measurements were not initiated within 24 hours of rainfall at the site.
- There was no rainfall during the 24-hour sampling period.
- All canister seals remained intact during the 24-hour sampling period.
- The criteria regarding 35 degree F minimum ambient air temperature and unfrozen ground do not apply when performing sampling at multiple times throughout the year; however, the minimum air temperature during the 24-hour sampling period was 31 degrees F, and the ground was not frozen.

6. SAMPLE ANALYSIS

6.1 Apparatus

Apparatus used for the analysis:

- Single- or multi-channel pulse height analysis system, Ludlum Model 2200 with a Teledyne 3" x 3" sodium iodide, thallium-activated (NaI(Tl)) detector.
- Lead shielded counting well approximately 40 cm deep with 5-cm thick lead walls and a 7-cm thick base and 5 cm thick top.
- National Institute of Standards and Technology (NIST) traceable aqueous solution radium-226 absorbed onto 180 grams of activated charcoal.
- Ohaus Model C501 balance with 0.1-gram sensitivity.

6.2 Sample Inspection and Documentation

Once in the laboratory, the integrity of each charcoal container was verified by visual inspection of the plastic container. Laboratory personnel checked for damaged or unsealed containers and verified that the data sheet was complete.

All of the 100 sample containers and 5 blank containers received and inspected at the Tellco analytical laboratory were ultimately verified as valid and no damaged or unsealed containers were observed.

6.3 Background and Sample Counting

The gamma ray counting system was checked daily, including background and radium-226 source measurements prior to and after each counting session. Based on calibration statistics, using two sources with known radium-226 content, background and source control limits were established for each Ludlum/Teledyne system with shielded counting well (see Appendix A).

Gamma ray counting of exposed charcoal samples included the following steps:

- The length of count time was determined by the activity of the sample being analyzed, according to a data quality objective of a minimum of 1,000 accrued counts for any given sample.
- The sample container was centered on the NaI gamma detector and the shielded well door was closed.
- The sample was counted over a determined count length and then the mid-sample count time, date, and gross counts were documented on the radon flux measurements data sheet and used in the calculations.
- The above steps were repeated for each exposed charcoal sample.
- Approximately 10 percent of the containers counted were selected for recounting. These containers were recounted on the next day following the original count.

7. QUALITY CONTROL (QC) AND DATA VALIDATION

Charcoal flux measurement QC samples included the following intra-laboratory analytical frequency objectives:

- Blanks, 5 percent, and
- Recounts, 10 percent

All sample data were subjected to validation protocols that included assessments of sensitivity, precision, accuracy, and completeness. All method-required data quality objectives (EPA, 2014) were attained.

7.1 Sensitivity

A total of five blanks were analyzed by measuring the radon progeny activity in samples subjected to all aspects of the measurement process, excepting exposure to the source region. These blank sample measurements comprised approximately 5 percent of the field measurements. Analysis of the five blank samples measured radon flux rates ranging from approximately 0.05 to 0.12 pCi/m^2-s, with an average of approximately 0.07 pCi/m^2-s. The lower limit of detection (LLD) was approximately 0.05 pCi/m^2-s.

7.2 Precision

Ten recount measurements, distributed throughout the sample set, were performed by replicating analyses of individual field samples (see Appendix B). These recount measurements comprised

approximately 10 percent of the total number of samples analyzed. The precision of all recount measurements, expressed as relative percent difference (RPD), ranged from less than 0.1 percent to 7.4 percent with an overall average precision of approximately 2.7 percent RPD.

7.3 Accuracy

Accuracy of field measurements was assessed daily by counting two laboratory control samples with known Ra-226 content. Accuracy of these lab control sample measurements, expressed as percent bias, ranged from approximately -1.3 percent to +1.6 percent. The arithmetic average bias of the lab control sample measurements was approximately +0.1 percent (see Appendix A).

7.4 Completeness

All 100 of the samples from the Cell 2 cover region were verified, representing 100 percent completeness.

8. CALCULATIONS

Radon flux rates were calculated for charcoal collection samples using calibration factors derived from cross-calibration to sources with known total activity with identical geometry as the charcoal containers. A yield efficiency factor was used to calculate the total activity of the sample charcoal containers. Individual field sample result values presented were not reduced by the results of the field blank analyses.

In practice, radon flux rates were calculated by a database computer program. The algorithms utilized by the data base program were as follows:

Equation 8.1:

$$\text{pCi Rn-222/m}^2\text{sec} = \frac{N}{[Ts*A*b*0.5^{(d/91.75)}]}$$

where: N = net sample count rate, cpm under 220-662 keV peak
Ts = sample duration, seconds
b = instrument calibration factor, cpm per pCi; values used:
0.1698, for M-01/D-21 and
0.1703, for M-02/D-20
d = decay time, elapsed hours between sample mid-time and count mid-time
A = area of the canister, m^2

Equation 8.2:

$$\text{Error}, 2\sigma = 2 \times \frac{\sqrt{\frac{\text{Gross Sample, cpm}}{\text{Sample Count, t, min}} + \frac{\text{Background Sample, cpm}}{\text{Background Count, t, min}}}}{\text{Net, cpm}} \times \text{Sample Concentration}$$

Equation 8.3:

$$LLD = \frac{2.71 + (4.65)(S_b)}{[Ts*A*b*0.5^{(d/91.75)}]}$$

where: 2.71 = constant
4.65 = confidence interval factor
S_b = standard deviation of the background count rate
Ts = sample duration, seconds
b = instrument calibration factor, cpm per pCi; values used:
0.1698, for M-01/D-21 and
0.1703, for M-02/D-20
d = decay time, elapsed hours between sample mid-time and count mid-time
A = area of the canister, m^2

9. RESULTS

9.1 Mean Radon Flux

Referencing 40 CFR, Part 61, Subpart W, Appendix B, Method 115 - Monitoring for Radon-222 Emissions, Subsection 2.1.7 - Calculations, "the mean radon flux for each region of the pile and for the total pile shall be calculated and reported as follows:

(a) The individual radon flux calculations shall be made as provided in Appendix A EPA 86(1). The mean radon flux for each region of the pile shall be calculated by summing all individual flux measurements for the region and dividing by the total number of flux measurements for the region.

(b) The mean radon flux for the total uranium mill tailings pile shall be calculated as follows:

$$J_s = \frac{J_1A_1 + \ldots J_2A_2 [+] \ldots J_iA_i}{A_t}$$

Where: J_s = Mean flux for the total pile (pCi/m^2-s)
J_i = Mean flux measured in region i (pCi/m^2-s)
A_i = Area of region i (m^2)
A_t = Total area of the pile (m^2)"

40 CFR 61, Subpart W, Appendix B, Method 115, Subsection 2.1.8, Reporting states "The results of individual flux measurements, the approximate locations on the pile, and the mean radon flux for each region and the mean radon flux for the total stack [pile] shall be included in the emission test report. Any condition or unusual event that occurred during the measurements that could significantly affect the results should be reported."

9.2 Site Results

Site Specific Sample Results (reference Appendix C)

(a) The mean radon flux for the Cell 2 region at the site is as follows:

Cell 2 - Cover Region = 12.1 pCi/m^2-s (based on 270,624 m^2 area)

Note: Reference Appendix C of this report for the entire summary of individual measurement results.

(b) Using the data presented above, the calculated mean radon flux for Cell 2 is as follows:

Cell 2 = 12.1 pCi/m^2-s

$$\frac{(12.1)(270{,}624)}{270{,}624} = 12.1$$

As shown above, the arithmetic mean radon flux rate of the measurements for Cell 2 at Energy Fuels' White Mesa milling facility is below the U.S. Nuclear Regulatory Commission and EPA regulatory standard of 20 pCi/m^2-s.

Appendix C presents the summary of individual measurement results, including blank sample analysis.

Sample locations are depicted on Figure 2, which is included in Appendix D. The map was produced by Tellco.

References

U. S. Environmental Protection Agency, *Radon Flux Measurements on Gardinier and Royster Phosphogypsum Piles Near Tampa and Mulberry, Florida*, EPA 520/5-85-029, NTIS #PB86-161874, January 1986.

U. S. Environmental Protection Agency, *Title 40, Code of Federal Regulations*, July 2014.

U. S. Nuclear Regulatory Commission, *Radiological Effluent and Environmental Monitoring at Uranium Mills*, Regulatory Guide 4.14, April 1980.

U. S. Nuclear Regulatory Commission, *Title 10, Code of Federal Regulations*, Part 40, Appendix A, January 2014.

Figure 1

Large Area Activated Charcoal Canisters Diagram

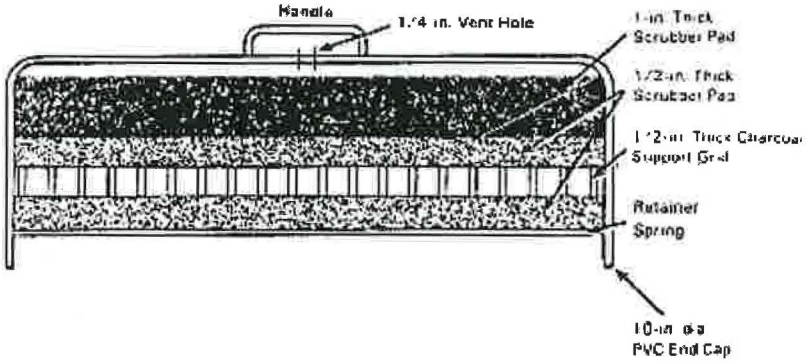


FIGURE 1 Large-Area Radon Collector

Appendix A

Charcoal Canister Analyses Support Documents

ACCURACY APPRAISAL TABLE
JANUARY 2015 RADON SAMPLING

ENERGY FUELS RESOURCES
WHITE MESA MILL, BLANDING, UTAH
2015 NESHAPs RADON FLUX MEASUREMENTS
CELL 2 AND CELL 3
SAMPLING DATES: 01/26/15-01/29/15

SYSTEM I.D.	COUNT DATE	Bkg Counts (1 min. each) #1	#2	#3	Source Counts (1 min. each) #1	#2	#3	AVG NET cpm	YIELD cpm/pCi	FOUND pCi	SOURCE ID	KNOWN pCi	% BIAS
M-01/D-21	1/30/2015	140	100	131	10244	10315	10083	10090	0.1698	59425	GS-04	59300	0.2%
M-01/D-21	1/30/2015	132	120	133	10219	10166	10335	10112	0.1698	59550	GS-04	59300	0.4%
M-01/D-21	1/31/2015	147	141	132	10094	10131	10290	10032	0.1698	59079	GS-04	59300	-0.4%
M-01/D-21	1/31/2015	107	114	128	10165	10143	10039	9999	0.1698	58889	GS-04	59300	-0.7%
M-01/D-21	2/1/2015	127	123	113	10075	10107	10208	10009	0.1698	58946	GS-04	59300	-0.6%
M-01/D-21	2/1/2015	127	144	136	10224	10086	10023	9975	0.1698	58748	GS-04	59300	-0.9%
M-01/D-21	1/30/2015	140	100	131	10376	10322	10364	10230	0.1698	60249	GS-05	59300	1.6%
M-01/D-21	1/30/2015	132	120	133	10322	10252	10084	10091	0.1698	59429	GS-05	59300	0.2%
M-01/D-21	1/31/2015	147	141	132	10342	10098	10311	10110	0.1698	59543	GS-05	59300	0.4%
M-01/D-21	1/31/2015	107	114	128	10288	10107	10334	10127	0.1698	59639	GS-05	59300	0.6%
M-01/D-21	2/1/2015	127	123	113	10318	10086	10367	10136	0.1698	59694	GS-05	59300	0.7%
M-01/D-21	2/1/2015	127	144	136	10312	10333	10164	10134	0.1698	59682	GS-05	59300	0.6%
M-02/D-20	1/30/2015	128	138	149	10200	10163	10197	10048	0.1703	59004	GS-04	59300	-0.5%
M-02/D-20	1/30/2015	131	137	124	10245	10300	10098	10084	0.1703	59211	GS-04	59300	-0.1%
M-02/D-20	1/31/2015	106	152	131	10126	10120	10200	10019	0.1703	58831	GS-04	59300	-0.8%
M-02/D-20	1/31/2015	142	128	115	10146	10104	10279	10048	0.1703	59002	GS-04	59300	-0.5%
M-02/D-20	2/1/2015	125	130	128	10378	10229	10306	10177	0.1703	59757	GS-04	59300	0.8%
M-02/D-20	2/1/2015	154	118	148	10240	10415	10232	10156	0.1703	59634	GS-04	59300	0.6%
M-02/D-20	1/30/2015	128	138	149	10148	10118	10053	9968	0.1703	58532	GS-05	59300	-1.3%
M-02/D-20	1/30/2015	131	137	124	10291	10268	10225	10131	0.1703	59487	GS-05	59300	0.3%
M-02/D-20	1/31/2015	106	152	131	10187	10252	10336	10129	0.1703	59475	GS-05	59300	0.3%
M-02/D-20	1/31/2015	142	128	115	10218	10245	10142	10073	0.1703	59151	GS-05	59300	-0.3%
M-02/D-20	2/1/2015	125	130	128	10275	10183	10379	10151	0.1703	59609	GS-05	59300	0.5%
M-02/D-20	2/1/2015	154	118	148	10300	10146	10296	10107	0.1703	59350	GS-05	59300	0.1%
								AVERAGE PERCENT BIAS FOR ALL ANALYTICAL SESSIONS:					0.1%

CHARCOAL CANISTER ANALYSIS SYSTEM

SITE LOCATION: White Mesa Mill, Blanding, UT

CLIENT: Energy Fuels Resources

Calibration Check Log

System ID: M-01/D-21 Calibration Date: 6/27/14 Due Date: 6/27/15

Scaler S/N: 51572 High Voltage: 1137 Window: 4.42 Thrshld: 2.20

Detector S/N: 041533 Source ID/SN: Ra^{224}/GS-04 Source Activity: 59.3 KpCi

Blank Canister Bkgd. Range, cpm: 2 σ = 98 to 161 3 σ = 83 to 176

Gross Source Range, cpm: 2 σ = 9801 to 10587 3 σ = 9604 to 10783

Technician: DL Cooper

All counts times are one minute.

	Date	By	Background Counts (1 min. each)				Source Counts (1 min. each)				ok?
			#1	#2	#3	Avg.	#1	#2	#3	Average	Y/N
Pre	1/30/15	DLC	140	100	131	124	10244	10315	10083	10214	Y
Post	1/30/15	DLC	132	120	133	128	10219	10166	10335	10240	Y
Pre	1/31/15	DLC	147	141	132	140	10094	10131	10290	10172	Y
Post	1/31/15	DLC	107	114	128	116	10165	10143	10039	10116	Y
Pre	2/1/15	DLC	127	123	113	121	10075	10107	10208	10130	Y
Post	2/1/15	DLC	127	144	136	136	10224	10086	10023	10111	Y

Y/N: Y = average background and source cpm falls within the control limits.
N = average background and source cpm does not fall within the control limits.

The acceptable ranges were determined from prior background and source check data.

CHARCOAL CANISTER ANALYSIS SYSTEM

SITE LOCATION: White Mesa Mill, Blanding, UT

CLIENT: Energy Fuels Resources

Calibration Check Log

System ID: M-02/D-20 Calibration Date: 6/27/14 Due Date: 6/27/15

Scaler S/N: 51563 High Voltage: 850 Window: 4.42 Thrshld: 2.20

Detector S/N: 041532 Source ID/SN: Ra^{226}/GS-05 Source Activity: 59.3 KpCi

Blank Canister Bkgd. Range, cpm: 2 σ = 93 to 155 3 σ = 77 to 171

Gross Source Range, cpm: 2 σ = 9915 to 10545 3 σ = 9757 to 10702

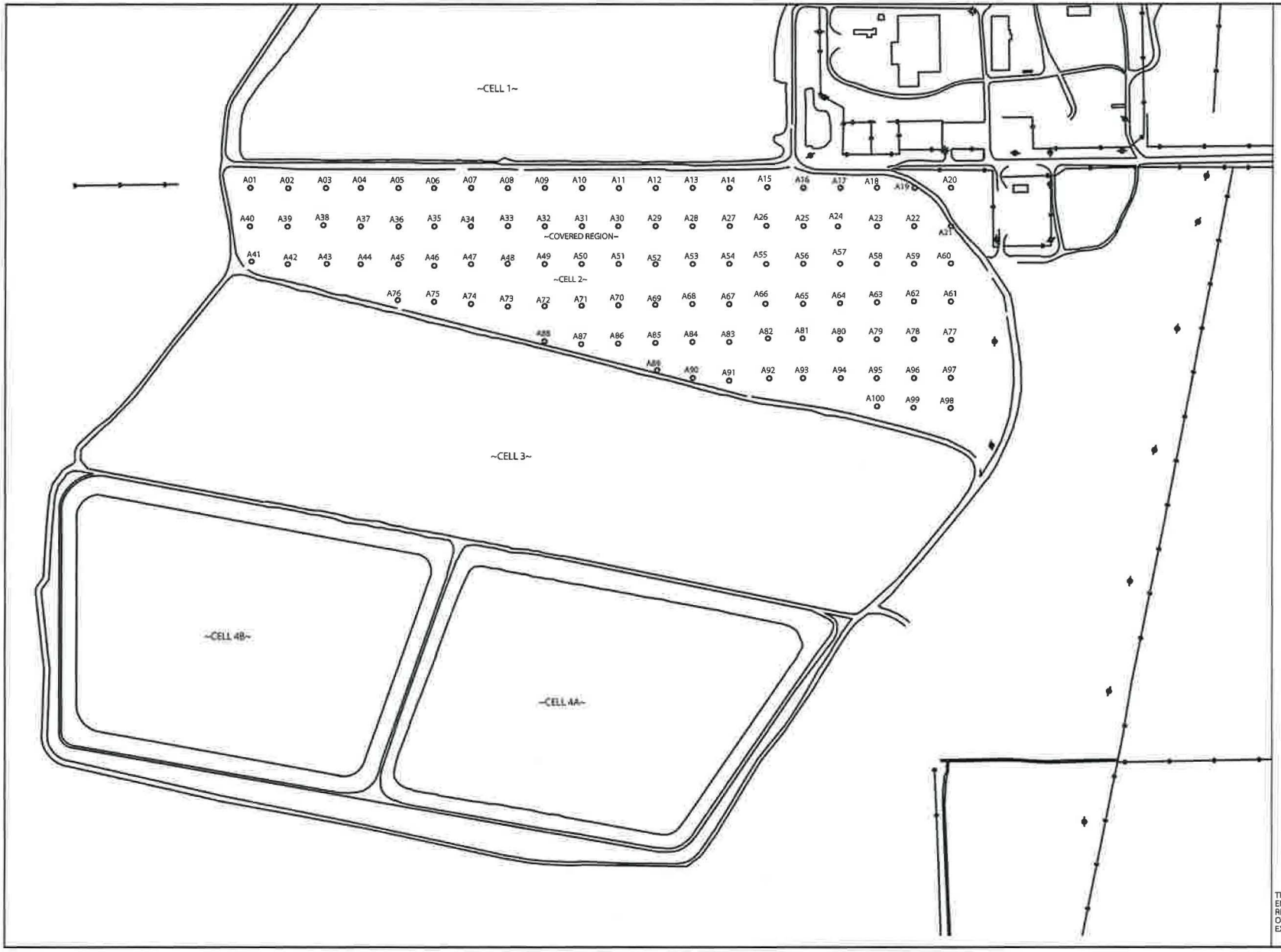
Technician: DL Cooper

All counts times are one minute.

	Date	By	Background Counts (1 min. each)				Source Counts (1 min. each)				ok?
			#1	#2	#3	Avg.	#1	#2	#3	Average	Y/N
Pre	1/30/15	DLC	128	138	149	138	10148	10118	10053	10106	Y
Post	1/30/15	DLC	131	137	124	131	10291	10268	10225	10261	Y
Pre	1/31/15	DLC	106	152	131	130	10187	10252	10336	10258	Y
Post	1/31/15	DLC	142	128	115	128	10218	10245	10142	10202	Y
Pre	2/1/15	DLC	125	130	128	128	10275	10183	10379	10279	Y
Post	2/1/15	DLC	154	118	148	140	10300	10146	10296	10247	Y

Y/N: Y = average background and source cpm falls within the control limits.
N = average background and source cpm does not fall within the control limits.

The acceptable ranges were determined from prior background and source check data.



WHITE MESA MILL

BLANDING, UTAH

NESHAPS 2014

JANUARY 2015 SAMPLING
01/26/15-01/27/15

CELL 2

PREPARED FOR
ENERGY FUELS RESOURCES

LEGEND

A01 ○ = SAMPLE LOCATION ON COVERED AREAS 01/26/15-01/27/15

FIGURE 2

N

SCALE IN FEET
200 100 0 200 400

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