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May 14, 2010

10 CFR 50, Appendix I
Technical Specification 5.6.2

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: 2009 Radiological Environmental Operating Report

Palisades Nuclear Plant
Docket 50-255
License No. DPR-20

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. is submitting the enclosed Radiological Environmental Operating Report for the Palisades Nuclear Plant. This report was prepared in accordance with the requirements of 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, IV.C, and Technical Specification 5.6.2. The period covered by the enclosed report is January 1, 2009, through December 31, 2009.

This letter contains no new commitments and no revision to existing commitments.

Sincerely,

A handwritten signature in black ink, appearing to read "Tony Davis for".

pka/bed

Enclosure: Radiological Environmental Operating Report, January 1 2009, Through December 31, 2009.

CC Administrator, Region III, USNRC
Project Manager, Palisades, USNRC
Resident Inspector, Palisades, USNRC

JEAS
NPR

ENCLOSURE

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT JANUARY 1, 2009, THROUGH DECEMBER 31, 2009

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I. INTRODUCTION

The Radiological Environmental Operating Report provides a summary and data interpretation of the Palisades Nuclear Plant (PNP) Radiological Environmental Monitoring Program (REMP), as conducted during the 2009 reporting period. This report was prepared in accordance with the requirements of 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, IV.C, and Technical Specification 5.6.2.

Detailed sample station identification and location information can be found in Chemistry Procedure CH 6.10, "Palisades Environmental Monitoring Program." CH 6.10 is included as Attachment 3. The results of all environmental samples collected are evaluated as follows:

- A. Air iodine and particulate and thermoluminescent dosimetry (TLD) data were statistically evaluated at the 95% confidence level. The data were compared against two criteria. The first criterion is the statistical difference, which indicates whether the sample results from near sites are greater than those from control sites, and whether or not the difference is significant (e.g., statistical "T-Test" of indicator vs. control results).

If the T-Test concludes that the control and indicator populations are statistically different and the indicator populations are higher, then the evaluation level (twice the statistical difference) is computed. This is the minimum difference in the population means for which a corresponding difference in sample means will exceed the statistical difference with 95% confidence. If the evaluation level is exceeded, then correlation of the results with effluent releases is performed.

- B. If a sufficient number of positive sample results were available (e.g., >1 control and >1 indicator) then well water, lake water, sediment, fish, and other aquatic biota samples were evaluated using data comparisons and the PNP Offsite Dose Calculation Manual (ODCM), Appendix A, reporting limits.

II. NON-ROUTINE REPORTS

Non-routine reportable events did not occur during this reporting period.

III. DISCUSSION AND INTERPRETATION OF RESULTS

A. Air Samples

There were 259 air samples collected and analyzed for gross beta and I-131. Air iodine/particulate samples are collected weekly from five air-sampling locations. Air is metered into the sampling unit at an

approximate one cubic foot per minute flow rate through a 47-mm air filter (air particulate) and an air iodine cartridge. Both filters are in-line with each other and housed within the same filter holder. Weekly samples were sent to GEL Laboratories for analysis.

Analysis of the airborne particulate sample data, between the four near-site indicator locations and the control location, demonstrated no statistical difference. The mean values of gross beta results for indicator and control locations were 0.0497 pCi/m³ and 0.0486 pCi/m³, respectively. Indicator location 8SP had the highest annual average for gross beta results at 0.0506 pCi/m³. Note: gross beta results are higher than previous years and were seen in both indicator and control samples. This increase is attributed to a change in the vendor performing the sample analyses.

All I-131 activity results were below the minimum detectable concentration (MDC) levels.

B. Lake Water (Surface Water)

Palisades Lake-In (indicator), and Ludington (control) lake water samples were collected daily and combined into monthly composite samples. One gallon each of Palisades Lake-In and Ludington Lake-in composites were sent to GEL Laboratories for analysis each month and analyzed for gross beta and tritium. No treatment of the water samples with preservative is required.

Two Palisades Lake-In samples and one Ludington sample showed results greater than MDC for gross beta activity. The Palisades Lake-In gross beta average value was 5.11 pCi/L and the Ludington value was 4.02 pCi/L. Tritium was not detected in any indicator or control samples. There is no ODCM reporting level for gross beta; if gross beta activity is >10 pCi/L, then gamma analysis will be done. Note: gross beta results are higher than previous years and were seen in both indicator and control samples. This increase is attributed to a change in the vendor performing the sample analyses.

C. Drinking Water

Palisades Domestic Water and South Haven Municipal Raw Water (indicators) and Ludington (control) water samples were collected daily and combined into monthly composite samples. One gallon each of these composites were sent to GEL Laboratories for analysis each month and analyzed for gross beta and tritium. No treatment of the water samples with preservative is required.

Four domestic water samples, four South Haven raw water samples, and one Ludington sample showed results greater than MDC for gross beta activity. The gross beta average values for the domestic water and South Haven raw were 3.25 pCi/L and 4.07 pCi/L respectively. The Ludington value was 4.02 pCi/L. Tritium was not detected in any indicator or control sample. There is no ODCM reporting level for gross beta. If gross beta activity is >10 pCi/L, then gamma analysis will be done. Note: gross beta results are higher than previous years and were seen in both indicator and control samples. This increase is attributed to a change in the vendor performing the sample analyses:

D. Milk

Two one-gallon quantities of raw milk (grab sample) were obtained per sample location on one occasion from dairy milk holding tanks. Each sample quantity is treated with a sodium bisulfate preservative prior to being sent to GEL Laboratories for analysis.

There was no activity detected in the milk samples except for naturally occurring K-40.

Note: PNP now does broad leaf vegetation sampling in lieu of milk sampling as there are no dairy farms meeting the sample criteria of being within 8 km of PNP. See Section I.

E. TLDs - Gamma Dose

Environmental gamma doses are measured quarterly by placement of TLDs at each designated location. Each TLD badge contains a 4-zone calcium sulfate (CaSO_4) wafer (the wafer includes an additional backup/reserve readout zone). Sensitivity for the multi-zone TLDs is 10 millirem, with a linear response of 0.1 millirem to 1000 rem.

The PNP gamma assessment program consists of 23 locations. There is a total of ten inner ring TLDs, including one on site, ten outer ring TLDs and three control TLDs.

There were 91 TLDs collected and analyzed during 2009 (one outer ring TLD was damaged and could not be analyzed). The one on-site TLD location serves as an individual reference TLD; however, it was evaluated along with the inner ring (site boundary) TLDs in the statistical evaluation.

The TLD data evaluations were performed by comparing the inner ring TLDs (site boundary locations 1, 13-21), and the outer ring TLDs (locations 2-9, 23 and 24), against the control TLD locations (10, 11 & 12).

For 2009, the quarterly average gamma readings (mR) were inner ring – 18.5, outer ring – 20.3 and control – 21.5.

The highest average reading was observed at control stations 11 and 12 both with a reading of 22.5 mrem.

Statistical analysis demonstrated that inner ring vs. control TLDs were two different populations. However, the control average was greater than the inner ring average and hence further evaluation is not necessary. There was no statistical difference between the outer ring and control populations.

Note: TLD readings are higher this year than previous years. This is due to the TLDs being analyzed by a different vendor, and background readings were not subtracted.

F. Crops

Two principal area crops, apples and blueberries, were collected. Approximately 1 kg of sample is placed in a plastic bag for shipment to the vendor for analysis. No special treatment of the samples with a preservative is necessary.

Blueberries and apples were collected at indicator station 4-JS (3.5 miles SE). There was no activity detected in the crop samples except for naturally occurring K-40 in the apple sample.

G. Sediment

Sediment samples are collected semi-annually from a location ½ mile north of the plant along the waterline. No treatment of the samples with a preservative is necessary prior to shipment to the vendor for analysis.

Two sediment samples were collected from Palisades, 30-STN (0.5 miles north of discharge). No activity was detected except for naturally occurring K-40.

H. Fish

Fish samples are collected semi-annually. Samples consist of two species of commercially and/or recreational important species near the plant discharge area. Control samples are obtained in an area not influenced by plant discharge. Each one-liter quantity of fish sample is prepared for shipment to GEL Laboratories. Each sample is frozen for preservation.

Three fish samples were collected from Palisades (1-ST discharge).
Note: A fourth indicator sample and control fish samples were not obtained in 2009, see sampling anomalies section.

No activity was detected except for naturally occurring K-40.

I. Broad Leaf Vegetation

Three different kinds of broad leaf vegetation in the South and SSE sectors along the site boundary are sampled monthly during the growing season. Three similar broad leaf vegetation samples are obtained in the NE sector approximately 9 to 18 miles from the plant. Sample sizes are one kg per sample – nine samples total per month. Samples are sent to GEL Laboratories for gamma isotopic and I-131 analyses. No treatment of the samples with a preservative is necessary.

Sampling was done for the months of May through September. Forty-five samples were obtained. Cs-137 was detected in all indicator samples collected, except samples taken in May. The average Cs-137 activity was 50.8 pCi/kg. The reporting level for Cs-137 is 2000 pCi/kg. There was no activity detected in the control broad leaf samples, except for naturally occurring Be-7 and K-40.

Note: Due to miscommunication between the vendor and PNP, both May and June broad leaf indicator and control samples were analyzed as two composites samples, i.e. the six indicator samples were analyzed as one and the three control samples were analyzed as one.

J. Non-Routine Samples

There were no non-routine environmental samples collected during this reporting period.

K. Gaseous and Liquid Radwaste Effluent Composite Samples

Gaseous and liquid radwaste effluent composite samples are collected monthly and sent to GEL Laboratories for analysis. No special sample treatment with a preservative is required prior to laboratory analysis. The liquid effluent composite sample is based on a specific amount of sample collected, per total batch volume release. The gaseous radwaste effluent weekly composite sample results are based on analyzing weekly stack gas filters.

Although not a direct reporting component in the PNP Annual Radiological Environmental Operating Report, results of the gaseous and liquid monthly radwaste effluent composite samples are evaluated against overall environmental trending data. This evaluation is the basis for determining isotopic dispersion and deposition patterns within the surrounding environs of PNP. All gaseous and liquid effluent results are compared to the PNP ODCM, Appendix A, reporting levels. All isotopic lower limits of detection (LLDs) were met.

IV. ASSESSMENT OF PALISADES OPERATION ENVIRONMENTAL IMPACT

Broad leaf vegetation sampling was reinitiated in 2009, and indicator samples showed Cs-137 activity. Correlating this activity to plant effluents, it is evident that the Cs-137 activity released from PNP during 2009 was 49.5 μCi . This amount would be undetectable in the environment when considering the dilution that would occur. Additionally, shorter-lived isotopes, e.g. Mn-54, Co-58, and Co-60, which were released in higher quantities than Cs-137, were not identified. This leads to the reasonable assumption that the Cs-137 activity seen in broad leaf vegetation is due to atmospheric nuclear weapons testing, and not due to PNP operation. The fact that Cs-137 activity was not detected in the control samples can be explained. Typically, Cesium is most readily detected in areas where the soil and vegetation have been undisturbed since weapons testing were discontinued. The area where control samples were taken has multiple residences and roads. The area where the indicator samples were taken is heavily wooded and likely has been undisturbed for decades.

In reviewing the 2009 PNP radiological environmental monitoring data, and comparing it to previous operational and pre-operational data, all trending parameters continue to indicate that the operation of PNP has minimal environmental impact. Most isotopic activity is at environmental background levels. Evidence of an overall environmental isotopic buildup (attributable to plant effluents) remains negligible as well. In most instances, sample analytical results were below previously established environmental background levels.

**Table HP 10.4-1
Sampling and Analysis Summary**

Name of Facility	Palisades Nuclear Plant	Docket No	50-255
Location of Facility (County, State)	Van Buren, Michigan	Reporting Period	Jan 1, 2009 to Dec 31, 2009

Medium	Collection Description	Location	Number of Samples Collected	Type of Analysis	Frequency of Analysis
Air	Continuous at approx 1 cfm	Stations 4, 5, 8, 9 and 10	260	Gross Beta, I-131	Weekly
Lake Water	1 gallon composite	Lake Intake and South Haven Raw	24	Gross Beta, Tritium	Monthly
Lake Water - Control	1 gallon composite	Ludington Lake-In	12	Gross Beta, Tritium	Monthly
Drinking Water	1 gallon composite	South Haven Municipal	12	Gross Beta, Tritium	Monthly
Milk	2 gallons grab	Shine Brothers, D Carpenter & J Hay Dairy Farms	3	Gamma isotopic and I-131	Monthly
TLD	Continuous	Inner Ring, Outer Ring, Controls	92	Gamma dose	Quarterly
Food Products	1 kg grab	Arellano's market	2	Gamma isotopic and I-131	At time of harvest
Sediment	1 L grab	Discharge 1/2 mile north of Palisades	2	Gamma isotopic	Semiannually
Fish	1 L grab	Discharge and Control	3	Gamma isotopic	Semiannually
Broadleaf Vegetation	1 kg grab	Plant boundary - S and SSE sectors, Control 9 to 18 miles NNE of plant	45	Gamma isotopic and I-131	Monthly during growing season

*S/G storage facility well sampling was discontinued in 4th quarter 2008

Table HP 10.4-2
Sample Data Summary

Name of Facility	Palisades Nuclear Plant	Docket No	50-255
Location of Facility (County, State)	Van Buren, Michigan	Reporting Period	Jan 1, 2009 to Dec 31, 2009

Medium or Pathway Sampled (Unit of Measure)	Type/Total Number of Analyses Performed	Lower Limit of Detection ^a (LLD)	All Indicator Locations Mean (f) ^b Range ^b	Greatest Mean Name Distance & Direction	Greatest Mean Mean (f) ^b Range ^b	Control Locations Mean (f) ^b Range ^b	Number of Reportable Occurrences
Air Particulates (pCi/m ³)	I-131 259	0.07	<LLD	--	--	<LLD	0
	Gross β 259	0.01	0.050 (208/208) 0.021 - 0.082	8SP State Park 0.59 mi N	0.051 (52/52) 0.023 - 0.081	0.049 (51/51) 0.032 - 0.072	0
Lake Water (pCi/L)	Gross β 24	4.0	5.11 (2/12) 4.63 - 5.58	Lake In Palisades	5.11 (2/12) 4.63 - 5.58	4.02 (1/12)	0
	Tritium 24	2000	(0/12) <LLD	--	--	<LLD	0
Drinking Water (pCi/L)	Gross β 36	4.0	3.66 (8/24) 2.90 - 5.89	South Haven Raw SH-25 5 ½ miles N	4.07 (4/12) 2.90 - 5.89	4.02 (1/12)	0
	Tritium 36	2000	<LLD	--	--	<LLD	0
Milk (pCi/L)	γ Spec 3						
	I-131	1	<LLD	--	--	<LLD	0
	Cs-134	15	<LLD	--	--	<LLD	0
	Cs-137	18	<LLD	--	--	<LLD	0
	Ba-140	15	<LLD	--	--	<LLD	0
La-140	15	<LLD	<LLD	--	--	<LLD	0
Inner Ring TLD (Gamma mR)	Gamma Dose 52	10.0	18.5 (40/40) 15 - 23	Station # 19 0.47 miles SSE	19.3 (4/4) 17 - 21	21.5 (12/12) 17 - 25	0
Outer Ring (Gamma mR)	Gamma Dose 52	10.0	20.3 (39/40) 17 - 27	Station # 2 5.58 miles S	22.3 (4/4) 20 - 26	21.5 (12/12) 17 - 25	0

Medium or Pathway Sampled (Unit of Measure)	Type/Total Number of Analyses Performed	Lower Limit of Detection ^a (LLD)	All Indicator Locations Mean (f) ^b Range ^b	Greatest Mean Name Distance & Direction	Greatest Mean Mean (f) ^b Range ^b	Control Locations Mean (f) ^b Range ^b	Number of Reportable Occurrences
Food Crops (pCi/kg wet)	• Spec 2 I-131	60	<LLD	--	--	--	0
	Cs-134	60	<LLD	--	--	--	0
	Cs-137	80	<LLD	--	--	--	0
Sediment (pCi/kg dry)	• Spec 2 Cs-134	150	<LLD	--	--	--	0
	Cs-137	180	<LLD	--	--	--	0
Fish (pCi/kg wet)	• Spec 3 Mn-54	130	<LLD	--	--	--	0
	Fe-59	260	<LLD	--	--	--	0
	Co-58	130	<LLD	--	--	--	0
	Co-60	130	<LLD	--	--	--	0
	Zn-65	260	<LLD	--	--	--	0
	Cs-134	130	<LLD	--	--	--	0
	Cs-137	150	<LLD	--	--	--	0
Broad Leaf Vegetation (pCi/kg wet)	• Spec 31 I-131	60	<LLD	--	--	<LLD	0
	Cs-134	60	<LLD	--	--	<LLD	0
	Cs-137	80	50.8 (19/20) 17.6 - 187.0	BV23 0.43 miles S	114.6 (4/5) 28.8 - 187	<LLD	0

a Nominal Lower Limit of Detection (LLD) as defined in table notation c of Table E-3

b Mean and range based on detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parenthesis (f)

Table HP 10.4-3
Greatest Mean Sampling Location

Medium or Pathway Sampled (unit of measurement)	Type of Analysis	Location	High	Low	Mean
Air (pCi/m ³)	I-131	NA	NA	NA	NA
	Gross Beta	8SP	0.081	0.023	0.051
Lake Water (pCi/L)	Gross Beta	Lake In	5.58	4.63	5.11
	Tritium	NA	NA	NA	NA
Drinking Water (pCi/L)	Gross Beta	25-SH Raw	5.89	2.90	4.07
	Tritium	NA	NA	NA	NA
Milk (pCi/L)	I-131	NA	NA	NA	NA
	Cs-137	NA	NA	NA	NA
	Other gamma	NA	NA	NA	NA
Inner Ring TLD (gamma mR)	Quarterly	AP19	21	17	19.3
Outer Ring TLD (gamma mR)	Quarterly	AP19	26	20	22.3
Crops (pCi/kg wet)	I-131	NA	NA	NA	NA
	Other Gamma	NA	NA	NA	NA
Sediment (pCi/kg dry)	Gamma Emitters	NA	NA	NA	NA
Fish (pCi/gm wet)	Gamma Emitters	NA	NA	NA	NA
Broad leaf vegetation (pCi/kg wet)	Gamma Emitters	Site Boundary South	187	17.6	50.8

**ATTACHMENT 1
SAMPLE COLLECTION ANOMOLIES**

Sample Affected	Location	Date	Problem	Evaluation
Air sample	Indicator – Station #5	10/5/09	Air sample pump found not running	Pump was replaced. Volume of air sample was 235.0 m ³ , sufficient volume to meet the required LLD. (CR-PLP-2009-04636)
Air Sample	Indicator – Station #4	10/19/09	Air sample pump found not running	Pump was replaced. Volume of air sample was 237.9 m ³ , sufficient volume to meet the required LLD. Pump replacement criteria was changed to every three years instead of every four years. (CR-PLP-2009-04861)
Air Sample	Control – Grand Rapids Station #10	12/23/09	Air sample not received	Contacted vendor who stated that sample was taken and sent via US Mail. Sample later arrived at Palisades on 4/22/10. (CR-PLP-2010-00137)
TLDs	Indicator - TLD	10/1/2009	No TLD along site boundary in the South sector.	Using GPS coordinates it was determined that there was not a TLD monitoring station in the South sector along the site boundary. (There were two TLDs in the ESE sector) A new TLD station was put in service on 10/6/09. (CR-PLP-2009-04576)
TLD	Station #8	4 th Qtr 2009	TLD was damaged	TLD was damaged, dose received could not be determined. (CR-PLP-2010-01992)
Air Sample	Indicator - Station #8	4/28/08	Filter media damaged	Particulate filter and charcoal cartridge was found damaged. Filter had a small hole in it and loose charcoal media was evident. Sample was analyzed. (CR-PLP-2008-1901) Note: this anomaly was not reported in the 2008 Annual Radiological Environmental Operating Report.
Fish samples	Indicator and Control	2009	Samples were not obtained.	One semi-annual indicator fish sample was not obtained. No control fish samples were obtained. This sampling anomaly was an oversight by Palisades and due in part to the unexpected departure of the Environmental Specialist. (CR-PLP- 2010-01931)
Broad leaf vegetation	Indicator and Control	May and June 2009	Samples were counted as a composite instead of separately	In May and June, vendor analyzed all six indicator samples as one composite sample and did the same with the three control samples. Sampling anomaly was due to miscommunication between Palisades and vendor. Proper analyses were done for July, August and September. (CR-PLP-2010-01992)

**ATTACHMENT 2
2009 PNP LAND USE CENSUS**

The following tables are the results of the Palisades Nuclear Plant (PNP) Land Use Census conducted on 10/28/2009. Table 1 references the distance from PNP to the nearest residence, garden (greater than 500 square feet), beef cattle, dairy cattle and goat per meteorological sector. Table 2 identifies the locations of the nearest residence, garden, beef/dairy cattle and goats within a five (5) mile radius of PNP per meteorological sector. Table 3 lists the critical receptor locations used to calculate offsite doses by the GASPARD computer program.

Table 1 – Distance from PNP

Sector	Residence	Garden	Beef Cattle	Dairy Cow	Goat
NNE	1.68	1.75	> 5	> 5	> 5
NE	1.14	1.67	> 5	> 5	> 5
ENE	1.19	2.3	> 5	> 5	> 5
E	1.7	2.1	> 5	> 5	> 5
ESE	0.99	1.78	> 5	> 5	> 5
SE	0.90	2.44	> 5	> 5	> 5
SSE	0.80	> 5	> 5	> 5	> 5
S	0.72	1.40	> 5	> 5	> 5
SSW	0.49	4.82	> 5	> 5	> 5

(Distance is in miles)

2009 PNP LAND USE CENSUS

Table 2 – Location of Nearest

Sector	Location Description	Item	Distance from Plant (miles)
NNE	22514 Oak St	Residence	1.68
NNE	SW corner of 20 th and O fire lane	Garden	1.75
NE	Ruggles Road, State Park Manager	Residence	1.14
NE	21175 Blue Star Hwy	Garden	1.67
ENE	24 th Ave, at dead end next to I-196	Residence	1.19
E	26263 76 th Street	Residence.	1.7
E	25100 75 th Street	Garden	2.1
ESE	77555 28 th Ave	Residence	0.99
ESE	28594 76 th Street	Garden	1.78
SE	28563 29 th Ave	Residence	0.90
SE	76566 34 th Ave	Garden	2.44
SSE	29 th Avenue, Palisades Park	Residence	0.80
S	29 th Avenue, Palisades Park	Residence	0.72
S	31881 Blue Star Hwy	Garden	1.40
SSW	29 th Ave, Palisades Park, on beach	Residence	0.49
SSW	Corner of 82 nd and Blue Star Hwy	Garden	4.82

Table 3 – Critical Receptors

Sector	Item	Distance (miles)	X/Q (sec/m ³)	D/Q (1/m ²)
SSE	Site Boundary	0.48	2.43E-6	2.07E-8
SSW	Residence	0.49	1.19E-6	5.64E-9
S	Garden	1.40	3.12E-7	1.35E-9

ATTACHMENT 3

**CHEMISTRY PROCEDURE CH 6.10
"RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM"**

Procedure No CH 6.10
Revision 4
Effective Date 2/2/10

PALISADES NUCLEAR PLANT
HEALTH PHYSICS PROCEDURE

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Approved: JBBurnett
Procedure Sponsor

/

2/1/10
Date

Process Applicability Exclusion



New Procedure/Revision Summary:

Specific Changes

Revision 4 - DRN-10-00168

Added an additional map showing Control sample locations.

Added requirement that air sample pumps should be changed out every three years.

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

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TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

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- Attachment 8, "Environmental Monitoring Locations"

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

REFERENCE USE

- **Procedure and Procedure Precautions and Limitations are at the work location for reference.**
- **Review and understand segments before performing any steps.**
- **Signoff steps are completed, when included, before starting the next step.**
- **Place keep in accordance with EN-HU-102, "Human Performance Tools."**
- **Review the Procedure to verify segments have been completed.**

1.0 PURPOSE

This procedure provides instructions for collection of environmental samples in support of the Radiological Environmental Monitoring Program (REMP) as required by the Offsite Dose Calculation Manual (ODCM). In addition to the ODCM required samples, additional required sampling is listed.

2.0 REFERENCES

2.1 SOURCE DOCUMENTS

2.1.1 Reg Guide 4.15(7)

2.1.2 10CFR50, Appendix I

2.1.3 Offsite Dose Calculation Manual (ODCM)

2.1.4 Branch Technical Position (Revision 4, 1979), "Radiological Portion of the Environmental Monitoring Program"

2.1.5 NRC IE Bulletin 80-10, "Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment"

2.2 REFERENCE DOCUMENTS

2.2.1 Palisades ODCM, Appendix A, Sections III.J, IV.C, and Tables E-1 and E-2

2.2.2 Entergy Procedure EN-AD-103, "Document Control and Records Management Programs"

2.2.3 Entergy Procedure EN-HU-102, "Human Performance Tools"

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

2.3 COMMITMENTS

- 2.3.1 CMT 022011097, IE Bulletin 80-10 Response - "Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment"
- 2.3.2 CMT 032011144, IE Bulletin 80-10 Response - "Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment"

3.0 PREREQUISITES

None

4.0 PRECAUTIONS AND LIMITATIONS

- 4.1 Any revisions to this procedure shall be reviewed against Palisades ODCM Specifications to verify compliance to all requirements.
- 4.2 Deviations from the required sampling schedule shall be documented in the Annual Radiological Environmental Operating Report.
- 4.3 Every effort shall be made to complete corrective action on malfunctioning sampling equipment prior to the end of the next sampling period.
- 4.4 If it is not possible to obtain the required samples, suitable alternative media and locations shall be substituted within 30 days.
- 4.5 Samples shall be collected, prepared, and shipped for analysis in a timely manner to ensure detection requirements are met. Other specific handling precautions for sample media are indicated in Section 5.0 as required.
- 4.6 Any deviation in the Radiological Environmental Monitoring Program including missing samples, unusual analytical results, elevated LLDs, etc, shall be investigated, evaluated, corrected, and documented.
- 4.7 If an air sampling unit is discovered not operating, attempt to find the cause and repair. If this cannot be done, replace applicable component and document on air sample collection data sheet.
- 4.8 Calibrate airflow meters annually.

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- 4.9 Change out airflow meters prior to the expiration of calibration dates.
- 4.10 Change out air sample pumps every three years.
- 4.11 Ensure trees and bushes in the vicinity of air sampler locations are removed, along with any branches extending over the top of the sampler. The goal is to keep every station away from the drip line (with the exception of station 9, which has an existing canopy 50 feet above the station).
- 4.12 In the event that the Radiological Environmental Monitoring Programs sampling are not substantially conducted as described in Palisades ODCM Appendix A, Specification III.J, or an unusual or important event occurs from Plant operation that causes a significant environmental impact or affects a potential environmental impact, a report shall be submitted to the NRC within 30 days.

5.0 PROCEDURE

REFERENCE USE
<ul style="list-style-type: none">• Procedure and Procedure Precautions and Limitations are at the work location for reference.• Review and understand segments before performing any steps.• Signoff steps are completed, when included, before starting the next step.• Place keep in accordance with EN-HU-102, "Human Performance Tools."• Review the Procedure to verify segments have been completed.

**5.1 LAKE-IN WATER SAMPLE COLLECTION – DAILY
CMT 032011144**

- 5.1.1 Fill a 500 ml sample bottle from water downstream of "bio-box" located in the screen house.
- 5.1.2 Add the sample to the composite container (carboy).
- 5.1.3 At end of the month obtain a 1-gallon sample from carboy.
- 5.1.4 Package and ship sample per Attachment 4.

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5.2 DRINKING WATER SAMPLE COLLECTION – DAILY

- 5.2.1 Obtain a 500 ml sample from any potable water sink.
- 5.2.2 Add the sample to the monthly sample container (carboy).
- 5.2.3 At end of the month obtain a 1-gallon sample from carboy.
- 5.2.4 Package and ship sample per Attachment 4.

5.3 ENVIRONMENTAL AIR SAMPLE COLLECTION – WEEKLY

- 5.3.1 Open cover at air sample station.
- 5.3.2 Determine "As Found Leakage" by blocking air flow and checking air flow meter for movement.
 - a. If no leakage, then mark N in As Found Leakage column on Air Sample Data Sheet.
 - b. If leakage is indicated, then mark Y in As Found Leakage column, determine cause and repair.
- 5.3.3 Remove old sampler assembly.
- 5.3.4 Remove protective cover from new sampler assembly and place on old sampler assembly.
- 5.3.5 Install new sampler assembly.
- 5.3.6 Determine "As Left Leakage" by blocking air flow and checking air flow meter for movement.
 - a. If no leakage, then mark N in As Left Leakage column.
 - b. If leakage is indicated, then determine cause and repair.
- 5.3.7 Record the Flow Meter Cal Due Date, Removed Date, Removed Time, Removed Meter Reading (ft³) and Pump Replacement Date.
- 5.3.8 Close and latch the air sample station cover.
- 5.3.9 Proceed to the next station and continue process.

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- 5.3.10 After completing air sample change out, complete the following for each sampler assembly:
- a. Remove particulate filter and place in glassine envelope.
 - b. Place filter envelope and charcoal cartridge in labeled zip-lock bag
 - c. Clean out any residue or moisture buildup in sampler head.
 - d. Check condition of O-rings, replace if necessary.
- 5.3.11 Place new particulate filter (fuzzy side out) and charcoal cartridge in sampler assembly and screw on cap.
- 5.3.12 Place protective cover on sampler assembly.
- 5.3.13 Prepare new air sample packages for following week.
- 5.3.14 Transfer data to vendor Chain of Custody sample data sheet.
- a. If volume is less than 150 m³, then notify REMP/RETS analyst.
- 5.3.15 When control air sample is obtained, then package and ship samples per Attachment 4.

5.4 SOUTH HAVEN RAW WATER SAMPLE COLLECTION – MONTHLY

NOTE: Water treatment plant personnel add approximately 125 ml of raw water per day to sample containers.
--

- 5.4.1 Prepare a 1-gallon container labeled "SHRAW," "PAL," month and year.
- 5.4.2 Drop off container at the South Haven Municipal Water Treatment Plant.
- 5.4.3 Pick up previous month's container.
- 5.4.4 Package and ship samples per Attachment 4.

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5.5 BROADLEAF VEGETATION SAMPLE COLLECTION – MONTHLY

- 5.5.1 Obtain 1 kg (2.2 lbs) samples of three different kinds of broadleaf vegetation in both the South and SSE sectors.
- 5.5.2 Obtain 1 kg (2.2 lbs) samples of the similar broadleaf vegetation 15 – 30 km (9.3 to 18.6 miles) distant in the NNE sector.
- 5.5.3 Obtain samples monthly during growing season.
- 5.5.4 Package and ship samples per Attachment 4.

5.6 ENVIRONMENTAL TLD COLLECTION – QUARTERLY

- 5.6.1 Upon receipt of TLDs from the laboratory contractor, inventory all TLDs and place in lead cave.

<p>NOTE: Remove field TLDs from the lead cave only for delivery to their proper locations. All control TLDs remain in the lead cave throughout the entire exposure period.</p>

- 5.6.2 Change-out TLDs at each sample location.
- 5.6.3 For any missing TLDs, then:
 - a. Search immediate area.
 - b. If lost TLD is found, collect it and perform standard change out procedure.
 - c. If lost TLD is not found, post the new TLD in proper location.
- 5.6.4 Store collected field TLDs in lead cave along with control TLDs until ready for mailing to laboratory contractor.
- 5.6.5 Package and ship samples per Attachment 4.

5.7 PLANT AIR SAMPLE COLLECTION – QUARTERLY

- 5.7.1 Obtain 1-liter air samples from Air Receiver Tanks T-8A, 8B and 8C.
CMT 0220011097
- 5.7.2 Count samples for 2000 seconds on MCA.

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5.8 SEPTIC SYSTEM SAMPLE COLLECTION – QUARTERLY

5.8.1 Obtain a 1 liter liquid sample from sanitary system septic tank.

5.8.2 Count sample for 2000 seconds on MCA.

5.8.3 Package and ship samples per Attachment 4.

5.9 FISH SAMPLE COLLECTION – IN SEASON

5.9.1 Precautions

- a. At least one individual in the collection party is required to have Michigan Department of Environmental Quality (MDEQ) Cultural and Scientific Fish Collectors Permit if gill net is used.
- b. If logistical problems prevent use of a boat to set gill nets from the lake side of Palisades, then the nets can be set offshore from the site boundary (by wading). Notify Security prior to using offshore wading method for beach access.

5.9.2 Notify district MDEQ Fisheries biologist prior to sample collection

5.9.3 Collect samples twice during the season of greatest abundance (typically May through October) as follows:

- a. Collect at least two species of commercially and/or recreationally important fish in the vicinity of the Plant discharge area and the same species in an area not influenced by the Plant discharge (eg, Ludington Pump Storage Plant). One liter of flesh should be collected for each species caught for analysis accuracy.
- b. Normally fish will be collected first from the vicinity of the discharge, then the same species at Ludington control station.

5.9.4 Label all containers with sample type, location, and date.

5.9.5 Package and ship samples per Attachment 4.

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

5.10 SEDIMENT SAMPLE COLLECTION - SEMIANNUALLY

- 5.10.1 Collect a 1-liter sediment sample semiannually 1/2 mile north of discharge.
- 5.10.2 Label containers with sample type, location, and date.
- 5.10.3 Package and ship samples per Attachment 4.

5.11 FOOD PRODUCT SAMPLE COLLECTION – YEARLY

- 5.11.1 Obtain one sample each of approximately 1 kg each of blueberries and apples from the Arrellanos' store.
- 5.11.2 Label containers with sample type, location, and date.
- 5.11.3 Package and ship samples per Attachment 4.

5.12 MISCELLANEOUS SAMPLES

- 5.12.1 Ludington - Control Lake-In daily composite samples are collected daily and shipped to Palisades monthly.
- 5.12.2 Package and ship samples per Attachment 4.

5.13 MONTHLY SAMPLE COLLECTION VERIFICATION

- 5.13.1 Attachment 6, "REMP Sample Collection Checklist," may be used to track collection and shipment of Environmental Samples.
- 5.13.2 Verify that the indicated number and type of samples required by the ODCM were collected.
 - a. Document any unusual collection conditions or missing samples.
- 5.13.3 Verify that a minimum of 150 m³ of air sample volume was obtained to ensure that analytical Lower Limit of Detection (LLD) requirements are met.
 - a. Evaluate, correct and document any significant deviations.

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5.13.4 Identify new locations for obtaining replacement samples and add them to the Radiological Environmental Monitoring Program (REMP) within thirty (30) days if milk or fresh leafy vegetable samples become unavailable from one or more of the sample locations. The specific locations from which samples were unavailable may then be deleted from the monitoring program. Identify the cause(s) of sample unavailability and list the new location(s) for obtaining replacement samples in the next Annual Radiological Environmental Operating Report.

5.14 REVIEW OF SAMPLE ANALYSIS RESULTS

5.14.1 The sample analysis results should be reviewed by the REMP/RETS Analyst upon receipt of the analyses from the laboratory contractor.

5.14.2 Compare the monthly analytical results to the appropriate ODCM requirements (Attachment 7) to verify the following:

- a. The required analyses were performed.
- b. Any results exceeding the action level shall be checked against ODCM Specification reporting requirements.
- c. LLD sensitivity levels were reached. If sample LLDs are not reached, evaluate and document contributing factors.
- d. The action taken if either isotopic action levels and/or NRC reporting levels are exceeded.
- e. Any specific types of evaluation required.
- f. Any action related to unusual or missing sample results.

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

5.15 SPECIAL REPORT

5.15.1 Prepare and submit to the NRC (within 30 days) a special report identifying the following, if the level of radioactivity as a result of Plant effluents in an environmental sampling medium at a specified location exceeds Palisades ODCM, Appendix A, Table E-2, reporting levels when averaged over any calendar quarter.

- a. The cause(s) for exceeding the limit(s).
- b. Corrective action(s) taken to reduce radioactive effluents.

5.15.2 The NRC Special Report shall be submitted if more than one (1) of the radionuclides listed in the specifications (Palisades ODCM, Appendix A, Table E-2) are detected in an environmental sample medium and:

$$\frac{\text{Concentration (1)}}{\text{Reporting Level (1)}} + \frac{\text{Concentration (2)}}{\text{Reporting Level (2)}} + \dots \geq 1.0$$

The quarterly sum of fractions calculation shall be completed within 90 days of end of quarter.

5.15.3 If radionuclides other than those listed in the specifications (Palisades ODCM, Appendix A, Table E-2) are detected and are the result of Plant effluents, the NRC Special Report shall be submitted if the potential annual dose to a member of the public is equal to or greater than the calendar year limits specifications (Palisades ODCM, Appendix A, III.H, III.C, and III.D). An NRC Special Report is not required if the measured level of radioactivity is not the result of Plant effluents. The condition shall be described in the Annual Radiological Environmental Operating Report.

Under all conditions, any radiological environmental surveillance sample possessing sufficient isotopic activity above the action level where an action level is listed in Attachment 2 but still below ODCM reporting requirements shall be evaluated. If no action level is listed in Attachment 2, any isotopic activity trending up shall be evaluated.

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

6.0 ATTACHMENTS AND RECORDS

6.1 ATTACHMENTS

6.1.1 Attachment 1, "Environmental Sample Collection Schedule"

6.1.2 Attachment 2, "REMP Sample Locations"

6.1.3 Attachment 3, "Sample Shipment Identification"

6.1.4 Attachment 4, "Sample Packaging and Shipment"

6.1.5 Attachment 5, "Environmental Air Sample Data Sheet"

6.1.6 Attachment 6, "REMP Sample Collection Checklist"

6.1.7 Attachment 7, "REMP Analytical Requirements"

6.1.8 Attachment 8, "Environmental Monitoring Locations"

6.2 RECORDS

6.2.1 Records generated by this procedure shall be filed in accordance with Entergy Procedure EN-AD-103, "Document Control and Records Management Programs."

7.0 SPECIAL REVIEWS

None

ENVIRONMENTAL SAMPLE COLLECTION SCHEDULE

Proc No CH 6.10

Attachment 1

Revision 4

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Sample	Number of Samples and Locations	Sample Type	Collection/Analysis Frequency
Airborne Particulates and Iodines	4 within a 10 km radius 1 at 25 – 89 km distant	Continuous at approximately 1 cfm	Weekly
Drinking Water	1 – South Haven Municipal – Raw	Daily 125 sample collection to obtain a one-gallon composite	Monthly
Drinking Water	1 – Plant drinking water	Daily 500 sample collection to obtain a one-gallon composite	Monthly
Lake Surface	1 – Lake In, Screen-house downstream of “bio-box”	Daily 500 sample collection to obtain a one-gallon composite	Monthly
Lake Surface	1 – Control at Ludington	Daily composite to obtain one-gallon sample	Monthly
Sediment	Sediment – ½ mile north of plant	One-liter grab	Semi-annually
Food Products	1 sample each of blueberries and apples	1 kg grab sample	At time of harvest
Food Products	1 sample each of three different kinds of broadleaf vegetation in two sectors near plant boundary 1 – sample of each of similar broadleaf vegetation 15 – 30 km distant (9 to 18 miles)	1 kg grab samples	Monthly during growing season
Fish	2 – location in vicinity of plant discharge 2 – Ludington Control	One-liter of fish flesh from two different species. Obtain same species from control location (if available)	Sample in season or semiannually if they are not seasonal

ENVIRONMENTAL SAMPLE COLLECTION SCHEDULE

Proc No CH 6.10
Attachment 1
Revision 4
Page 2 of 2

Sample	Number of Samples and Locations	Sample Type	Collection/Analysis Frequency
TLD	9 – General vicinity of Site Boundary 9 – Within 12 km radius 3 – Control Stations	Continuous	Quarterly
Waste Water	1 – septic system	1 liter grab	Quarterly
Plant Air	3 – T-8A, B & C	1 liter grab	Quarterly

REMP SAMPLE LOCATIONS

Station	Code		Location	Air Part. and Iodine	Lake Water	Milk	Food Products	Sediment	TLD	Fish
1	ST	Palisades Nuclear Plant	Onsite, on tree near nw corner of bag crew bldg.		X				X	
1	ST	Palisades Nuclear Plant	Plant discharge area							X
2	TH	RR 3 Coloma, MI 5.6 miles S	TLD located on Becht Road, west side on post, 50 yards south of 48 th Ave.						X	
3	HS	76182 48th Ave Covert, MI 5.8 miles SSE	Along 48th Ave, 1/4 mile west of 76th St. In barnyard 50 yds off north side of road.						X	
4	JS	36197 M-140 Hwy Covert, MI 3-1/2 miles SE	Just north of Arellannos fruit stand, in grape arbor.				X		X	
4	JS	36 th Avenue, 1/2 miles east of M-140	South side of road	X						
5	PR	72723 CR 378 Covert, MI 3-1/2 miles ESE	Along CR 378, 3/4 mile east of M-140, 30 ft off north side of road. TLD located at Paul Rood residence; on tree in back yard just past driveway.	X					X	
6	RB	RR 3 South Haven, MI 4-1/2 miles NE	Along 12th Ave (CR 384), turn nw past maple grove, go 1/4 mile located in orchard on north side of road.						X	
7a	SN21	Emergency Siren 21 4.1 miles NNE	On Monroe Blvd, at corner of 76 th and 11th Street.						X	
8	SP	State Park 1 mile N	Onsite along the dump road, north of Plant. One mile from main gate. Near State Park boundary, on side of road as road turns west.	X					X	
9	TP	Covert Township Park 1.5 miles SSW	Along 32nd Ave, 1/4 mile west of Blue Star Hwy. 5 ft off south side of road. TLD located at end of road, at entrance to residence on beach, attached to emergency siren SN38.	X					X	
10	GR	Grand Rapids, MI 55 miles NNE	Grand Rapids Service Center, in storage area. Air sample on west side near shed. Control TLD 100 feet north of air sample station.	X					X	

REMP SAMPLE LOCATIONS

Station	Code		Location	Air Part. and Iodine	Lake Water	Milk	Food Products	Sediment	TLD	Fish
11	KZ	Kalamazoo, MI 35 miles E	Kalamazoo Service Center, in parking area on post in SE corner Control TLD.						X	
12	DG	58399 Wilbur Road, Dowagiac, MI 30 miles SSE	TLD located on pole approx 20 yards from road, NE of house.						X	
13	ST	Perimeter of Palisades NNE	Past #8 along dirt road. Proceed west up dune path at right of containment test structure. At first crest, turn north and proceed up adjacent hill to #13 at top (approx 50 yds from crest). Near State Park fence line.						X	
14	ST	Perimeter of Palisades NE	25 yards east of Station #34 between State Park and DFS Building.						X	
15	ST	Perimeter of Palisades E	North along Blue Star Hwy, 0.75 miles from access road, 10 ft off west side of road.						X	
16	ST	Perimeter of Palisades E	North along Blue Star Hwy, 0.4 miles from access road, 50 ft off west side of road.						X	
17	ST	Perimeter of Palisades ESE	Along access road, 25 yds south of southern power line, 15 yds off east side of road.						X	
18	ST	Perimeter of Palisades SE	20 yds from access road along south road. 40 yds off south road.						X	
19	ST	Perimeter of Palisades SSE	0.2 miles along south road from access road, 30 ft off north side of road.						X	
20	ST	Perimeter of Palisades S	0.4 miles along south road from access road, 20 ft off south side of road.						X	
21	ST	Perimeter of Palisades SSW	0.7 miles along south road from access road, just past top of hill. Near Lake Michigan Bluff.						X	
22	PW	Palisades Warehouse	Control TLD in lead cave.						X	
23	SN19	Emergency Siren 19 3 miles ENE	On CR 380.						X	

REMP SAMPLE LOCATIONS

Station	Code		Location	Air Part. and Iodine	Lake Water	Milk	Food Products	Sediment	TLD	Fish
24	SN26	Emergency Siren 26 6 miles E	On 67th Street.						X	
25	SH	South Haven, MI 5-1/2 miles NNE	South Haven Water Treatment Plant.		X					
30	STN	1/2 mile N of discharge						X		
32	LP	Ludington Pumped Storage 125 Miles N			X					X
45	CV	Alternate Control Air Sample Station	10 miles NNE of Plant	X						

SAMPLE PACKAGING AND SHIPMENT

1. Label samples clearly as to their contents.
2. Seal liquid sample containers with tape to prevent leakage.
3. Use sufficient packing material to avoid sample container damage during shipment.
4. Package air filters in glassine or plastic envelopes.
5. For TLD shipments, ensure that vendor's shipment instructions are followed.
6. Ship samples to vendor laboratory with minimal delay after collection so as to avoid elevated analytical levels of detection.
7. Record sample information on Attachment 3, "Sample Shipment Identification," or Attachment 5, "Environmental Air Sample Data Sheet," or per vendor's instructions as applicable. Include applicable form with shipment.

ENVIRONMENTAL AIR SAMPLE DATA SHEET

PALISADES

A/S Station	As Found Leakage (Y / N)	As Left Leakage (Y / N)	Removed Date	Removed Time	Flow Meter Reading (ft ³)	Flow Meter Cal Due Date	Pump Replacement Date
8SP							
9TP							
4JS							
5PR							

Comments _____

Completed By _____

Date _____

Reviewed By _____

Date _____

REMP SAMPLE COLLECTION CHECKLIST

Month _____ Year _____

	Collected	Shipped
WEEKLY		
Air Samples		
Week 1	_____	_____
Week 2	_____	_____
Week 3	_____	_____
Week 4	_____	_____
Week 5	_____	_____
MONTHLY		
Broadleaf Veg	_____	_____
Lake In	_____	_____
Drinking Water	_____	_____
SHRAW	_____	_____
Ludington Ctrl	_____	_____

REMP SAMPLE COLLECTION CHECKLIST

Year _____

	Collected	Shipped
QUARTERLY		
TLDs		
1Q	_____	_____
2Q	_____	_____
3Q	_____	_____
4Q	_____	_____
Sanitary Wastewater		
1Q	_____	_____
2Q	_____	_____
3Q	_____	_____
4Q	_____	_____
Plant Air		
1Q	_____	_____
2Q	_____	_____
3Q	_____	_____
4Q	_____	_____
SEMI-ANNUAL		
Sediment		
1	_____	_____
2	_____	_____
Fish – Indicator		
1	_____	_____
2	_____	_____
Fish – Control		
1	_____	_____
2	_____	_____
ANNUAL		
Blueberries	_____	_____
Apples	_____	_____

This form is not required to be retained as a quality record.

REMP ANALYTICAL REQUIREMENTS

<u>Media</u>	<u>Sampling Interval</u>	<u>Required Analysis</u>	<u>LLD</u>	<u>NRC^f Reporting Levels</u>	<u>Unusual Results^h</u>	
					<u>Action Level</u>	<u>Action Required</u>
Direct by TLD	Quarterly	Gamma Dose	10 mR			
Air Gaseous	Weekly	I-131	0.07 pCi/m ³	0.9 pCi/m ³	0.2 pCi/m ³	Notify
Air Particulate	Weekly	Gross Beta Gamma ^{a,j} Cs-134 Cs-137	0.01 pCi/m ³ 0.05 pCi/m ³ 0.06 pCi/m ³	10 pCi/m ³ 20 pCi/m ³	See note g 5 pCi/m ³ 5 pCi/m ³	Notify and perform gamma isotopic.
Water Surface Drinking	Monthly	H-3 ⁱ Gross Beta Gamma ^{a,j}	2000 pCi/L 4 pCi/L	20,000 pCi/L 1000 pCi/L	1000 pCi/L 10 pCi/L	Notify Notify within 24 h if beta ≥10 pCi/L. Perform gamma analysis.
		Mn-54 Fe-59 Co-58 Co-60 Zn-65 Zr-95 Nb-95 Cs-134 Cs-137 BaLa-140 I-131	15 pCi/L 30 pCi/L 15 pCi/L 15 pCi/L 30 pCi/L 15 pCi/L 15 pCi/L 15 pCi/L 18 pCi/L 15 pCi/L 1 pCi/L	400 pCi/L 1000 pCi/L 300 pCi/L 300 pCi/L 400 pCi/L 400 pCi/L 30 pCi/L 50 pCi/L 200 pCi/L 2 pCi/L	Any gamma ≥30 pCi/L	Notify
Sediment	Semiannual	Gamma ^l Cs-134 Cs-137	150 pCi/g 180 pCi/g		Any gamma ≥1 pCi/g	Notify

REMP ANALYTICAL REQUIREMENTS

<u>Media</u>	<u>Sampling Interval</u>	<u>Required Analysis</u>	<u>LLD</u>	<u>NRC^f Reporting Levels</u>	<u>Unusual Results^h</u>	
					<u>Action Level</u>	<u>Action Required</u>
Fish	Semiannual	Gamma ^j Mn-54 Fe-59 Co-58 Co-60 Zn-65 Cs-134 Cs-137	0.13 pCi/g 0.26 pCi/g 0.13 pCi/g 0.13 pCi/g 0.26 pCi/g 0.13 pCi/g 0.15 pCi/g	30 pCi/g 10 pCi/g 30 pCi/g 10 pCi/g 20 pCi/g 1 pCi/g 2 pCi/g	Any gamma ≥1 pCi/g	Notify
Broad Leaf Vegetation	Monthly when available	I-131 Gamma ^j Cs-134 Cs-137	0.06 pCi/g 0.08 pCi/g 0.08 pCi/g	0.1 pCi/g 1 pCi/g 2 pCi/g	0.1 pCi/g Any gamma ≥1 pCi/g	Notify Notify
Food Products	At time of harvest	Gamma ^j Cs-134 Cs-137	0.08 pCi/g 0.08 pCi/g	1 pCi/g 2 pCi/g	Any gamma ≥1 pCi/g	Notify

^aSupplementary analysis only.

^dRadioactivity levels may cause LLD levels to be exceeded.

^eMonthly composite of weekly filters.

^fReporting levels per ODCM, Appendix A, Section III.J and Table E-2.

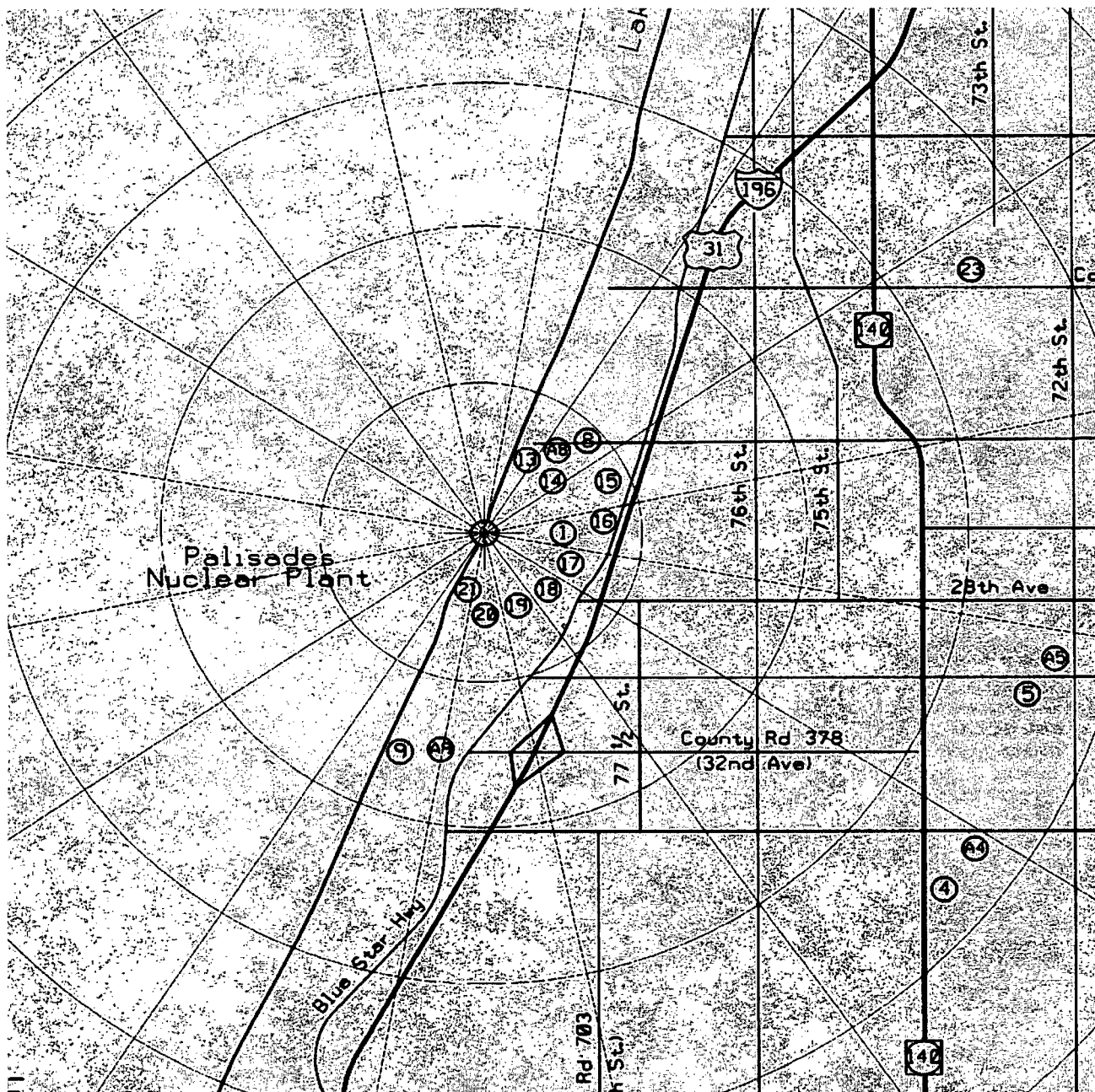
^gIf gross beta activity is greater than or equal to 1 pCi/m³ or greater than or equal to ten times last years mean of control samples, perform gamma analysis on the individual samples.

^hWhenever the Unusual Results Action Level is reached or exceeded, the word "Notify" under the Action Required column signifies that the Contract Laboratory performing the analysis is required to notify Palisades.

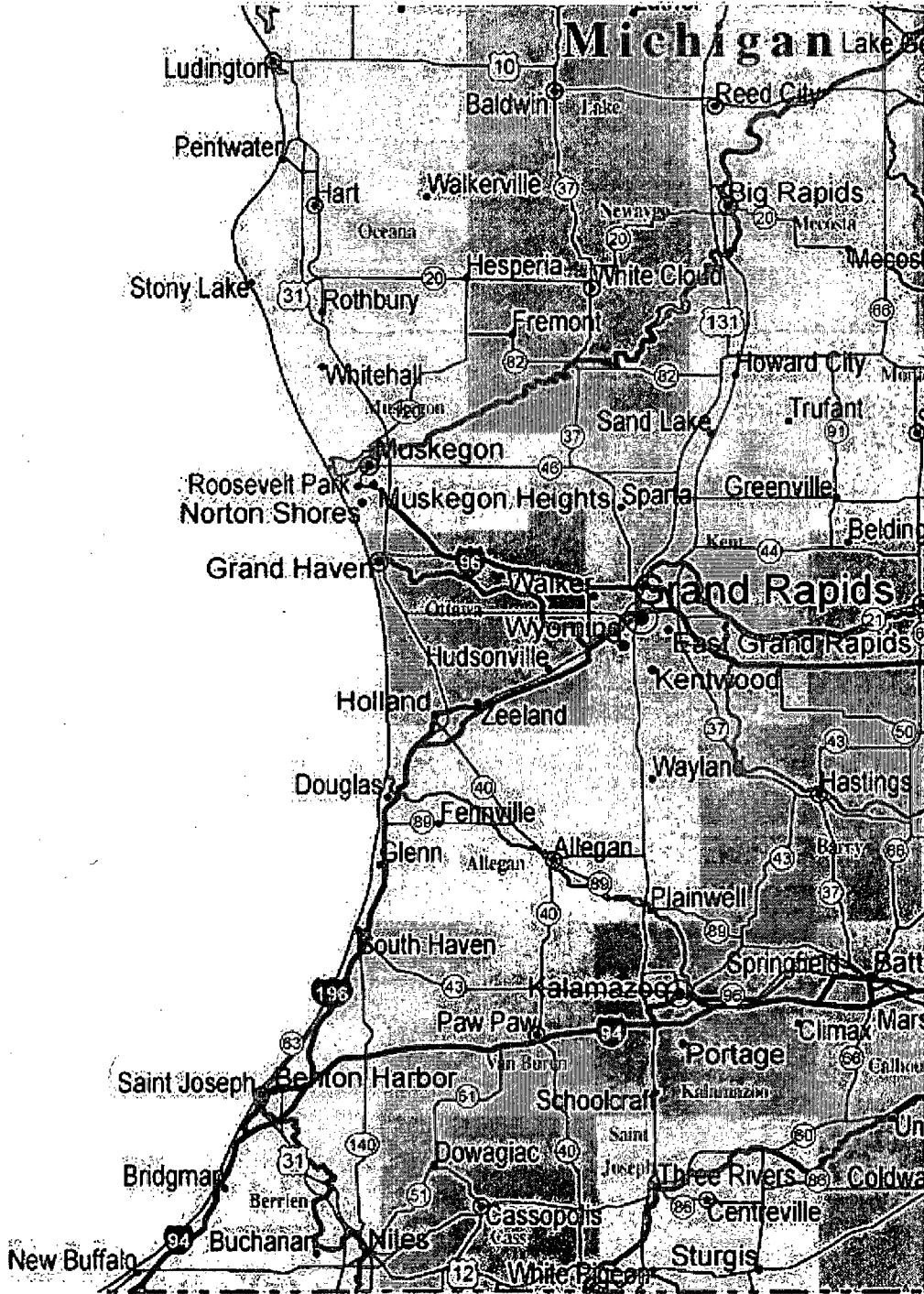
ⁱNot required for South Haven raw water sample.

^jGamma isotopic analysis means the identification and quantification of gamma emitting radionuclides that may be attributable to the effluents from the facility.

ENVIRONMENTAL MONITORING LOCATIONS



ENVIRONMENTAL MONITORING LOCATIONS



ENVIRONMENTAL MONITORING LOCATIONS

TLDs

Location	Coordinates	Distance (mi)	Degrees	Sector
Stack	N 42 19 23.5 W 86 18 51.6			
1	N 42 19 20.7 W 86 18 36.1	0.507	96.09	E
Inner Ring				
13	N 42 19 47.2 W 86 18 34.1	0.518	28.62	NNE
8	N 42 19 46.8 W 86 18 24.0	0.594	41.21	NE
14	N 42 19 41.1 W 86 18 21.2	0.548	51.93	NE
15	N 42 19 42.3 W 86 17 58.1	0.838	64.94	ENE
16	N 42 19 28.0 W 86 17 54.6	0.814	83.9	E
17	N 42 19 10.5 W 86 18 13.9	0.590	114.98	ESE
18	N 42 19 4.2 W 86 18 28.9	0.491	138.96	SE
19	N 42 19 0.9 W 86 18 39.7	0.465	158.69	SSE
20	N 42 19 1.1 W 86 18 48.8	0.432	174.42	S
21	N 42 19 3.4 W 86 18 58.4	0.397	194.02	SSW
Outer Ring				
7	N 42 22 40.8 W 86 17 0.4	4.102	22.6	NNE
6	N 42 22 30.6 W 86 14 15.9	5.309	47.42	NE
23	N 42 20 44.7 W 86 15 35.3	3.191	60.75	ENE
24	N 42 19 59.4 W 86 11 49.4	6.029	83.4	E
5	N 42 18 27.6 W 86 14 57.5	3.491	107.87	ESE
4	N 42 17 10.8 W 86 15 43.5	3.690	133.63	SE
3	N 42 14 38.0 W 86 16 59.7	5.704	163.82	SSE
2	N 42 14 33.4 W 86 19 16.4	5.578	183.62	S

ENVIRONMENTAL MONITORING LOCATIONS

9	N 42 18 1.6 W 86 19 34.6	1.686	201.22	SSW
Control TLDs				
10	N 42 53 16.5 W 85 40 36.1	50.727	39.51	NE
11	N 42 15 24.4 W 85 32 49.4	39.749	96.42	E
12	N 41 56 54.3 W 86 6 24.5	27.989	157.61	SSE

TLD # 10 is located within the Consumers Energy Grand Rapids service facility attached to a pole located adjacent to the south fence.

TLD # 11 is located within the Consumers Energy Kalamazoo service facility attached to a pole in the far NE corner of the facility – past the employee parking lot.

TLD # 12 is located approximately 30 yards from the road, NE and next to a private residence located at 58399 Wilbur Road, Dowagiac, MI.

Air Sample Stations

Location	Coordinates	Distance (mi)	Degrees	Sector
A8 (State Park)	N 42 19 46.8 W 86 18 24.8	0.587	40.38	NE
A9 (Township Park)	N 42 18 4.6 W 86 19 11.2	1.539	190.40	S
A4 (Covert)	N 42 17 12.1 W 86 15 21.7	3.903	130.22	SE
A5 (Rood)	N 42 18 30.5 W 86 14 47.8	5.804	106.36	ESE
A10 (Grand Rapids)	N 42 53 16.5 W 85 40 36.1	50.727	39.51	NE

Air Sample Station # 10 is located within the Consumers Energy Grand Rapids service facility, south side, next to a small service building and due East of TLD # 10.

Control fish and water samples are obtained from the Consumers Energy Pump Storage Facility located in Ludington, MI

ATTACHMENT 4

**YEAR-END REPORT FOR PALISADES
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)
AS PROVIDED BY GEL LABORATORIES, LLC**

REMP Year End Report for PALI for 2009
Palisades REMP

10GR
AC

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
10GR(223772010) - AC	3-Jan-09	Iodine-131	-5.71E-03	1.79E-02	2.88E-02	7.00E-02	1.79E-02	pCi/m3
10GR(223773010) - AC	10-Jan-09	Iodine-131	1.35E-02	2.18E-02	3.95E-02	7.00E-02	2.18E-02	pCi/m3
10GR(223716010) - AC	17-Jan-09	Iodine-131	-9.44E-03	2.29E-02	3.62E-02	7.00E-02	2.29E-02	pCi/m3
10GR(223998010) - AC	29-Jan-09	Iodine-131	-9.09E-03	1.47E-02	2.24E-02	7.00E-02	1.47E-02	pCi/m3
10GR(224501010) - AC	1-Feb-09	Iodine-131	1.08E-02	1.41E-02	2.63E-02	7.00E-02	1.41E-02	pCi/m3
10GR(225206010) - AC	8-Feb-09	Iodine-131	-2.41E-05	2.33E-02	4.02E-02	7.00E-02	2.33E-02	pCi/m3
10GR(225207010) - AC	15-Feb-09	Iodine-131	6.10E-03	1.68E-02	2.96E-02	7.00E-02	1.68E-02	pCi/m3
10GR(225581010) - AC	22-Feb-09	Iodine-131	6.44E-03	1.52E-02	2.70E-02	7.00E-02	1.52E-02	pCi/m3
10GR(226027010) - AC	5-Mar-09	Iodine-131	8.55E-03	1.17E-02	2.15E-02	7.00E-02	1.17E-02	pCi/m3
10GR(226577010) - AC	7-Mar-09	Iodine-131	-1.25E-02	1.79E-02	2.66E-02	7.00E-02	1.79E-02	pCi/m3
10GR(226991010) - AC	14-Mar-09	Iodine-131	-3.52E-03	1.98E-02	3.32E-02	7.00E-02	1.98E-02	pCi/m3
10GR(227208010) - AC	21-Mar-09	Iodine-131	-2.64E-03	2.77E-02	4.53E-02	7.00E-02	2.77E-02	pCi/m3
10GR(227641010) - AC	28-Mar-09	Iodine-131	-2.62E-04	1.21E-02	2.02E-02	7.00E-02	1.21E-02	pCi/m3
10GR(228145010) - AC	4-Apr-09	Iodine-131	2.74E-03	2.05E-02	3.53E-02	7.00E-02	2.05E-02	pCi/m3
10GR(228451010) - AC	11-Apr-09	Iodine-131	-1.14E-03	1.54E-02	2.60E-02	7.00E-02	1.54E-02	pCi/m3
10GR(228795010) - AC	18-Apr-09	Iodine-131	-7.33E-03	1.85E-02	2.93E-02	7.00E-02	1.85E-02	pCi/m3
10GR(229611010) - AC	25-Apr-09	Iodine-131	2.41E-02	2.52E-02	4.70E-02	7.00E-02	2.52E-02	pCi/m3
10GR(229841010) - AC	3-May-09	Iodine-131	8.64E-03	2.69E-02	4.67E-02	7.00E-02	2.69E-02	pCi/m3
10GR(230590010) - AC	9-May-09	Iodine-131	-1.12E-03	3.58E-02	5.97E-02	7.00E-02	3.58E-02	pCi/m3
10GR(230594010) - AC	16-May-09	Iodine-131	-7.28E-03	1.50E-02	2.39E-02	7.00E-02	1.50E-02	pCi/m3
10GR(231128010) - AC	28-May-09	Iodine-131	1.22E-02	1.23E-02	2.40E-02	7.00E-02	1.23E-02	pCi/m3
10GR(231469010) - AC	30-May-09	Iodine-131	6.67E-03	2.50E-02	4.25E-02	7.00E-02	2.50E-02	pCi/m3
10GR(232150010) - AC	6-Jun-09	Iodine-131	5.89E-03	3.87E-02	6.49E-02	7.00E-02	3.87E-02	pCi/m3
10GR(232595010) - AC	13-Jun-09	Iodine-131	-9.74E-04	2.38E-02	4.00E-02	7.00E-02	2.38E-02	pCi/m3
10GR(232878010) - AC	20-Jun-09	Iodine-131	-1.58E-02	2.61E-02	4.05E-02	7.00E-02	2.61E-02	pCi/m3
10GR(233212010) - AC	27-Jun-09	Iodine-131	-2.20E-03	1.38E-02	2.26E-02	7.00E-02	1.38E-02	pCi/m3
10GR(234044010) - AC	4-Jul-09	Iodine-131	-2.68E-02	3.57E-02	5.19E-02	7.00E-02	3.57E-02	pCi/m3
10GR(234047010) - AC	10-Jul-09	Iodine-131	-1.12E-02	1.93E-02	3.02E-02	7.00E-02	1.93E-02	pCi/m3
10GR(234348010) - AC	18-Jul-09	Iodine-131	1.95E-02	1.99E-02	3.73E-02	7.00E-02	1.99E-02	pCi/m3
10GR(235029010) - AC	26-Jul-09	Iodine-131	-4.58E-03	2.67E-02	4.44E-02	7.00E-02	2.67E-02	pCi/m3
10GR(235300010) - AC	2-Aug-09	Iodine-131	9.48E-03	1.31E-02	2.45E-02	7.00E-02	1.31E-02	pCi/m3
10GR(235775010) - AC	8-Aug-09	Iodine-131	-1.71E-02	2.12E-02	3.10E-02	7.00E-02	2.13E-02	pCi/m3
10GR(236207010) - AC	15-Aug-09	Iodine-131	4.40E-03	1.63E-02	2.88E-02	7.00E-02	1.63E-02	pCi/m3
10GR(236888010) - AC	23-Aug-09	Iodine-131	7.18E-03	1.99E-02	3.55E-02	7.00E-02	1.99E-02	pCi/m3
10GR(237111010) - AC	29-Aug-09	Iodine-131	-7.16E-03	2.07E-02	3.28E-02	7.00E-02	2.07E-02	pCi/m3
10GR(237457010) - AC	5-Sep-09	Iodine-131	-3.87E-03	1.76E-02	2.95E-02	7.00E-02	1.76E-02	pCi/m3
10GR(237862010) - AC	12-Sep-09	Iodine-131	1.40E-03	1.63E-02	2.75E-02	7.00E-02	1.63E-02	pCi/m3
10GR(238141010) - AC	19-Sep-09	Iodine-131	-1.03E-02	1.59E-02	2.39E-02	7.00E-02	1.59E-02	pCi/m3
10GR(238866010) - AC	26-Sep-09	Iodine-131	1.78E-03	2.31E-02	3.89E-02	7.00E-02	2.31E-02	pCi/m3
10GR(239603010) - AC	3-Oct-09	Iodine-131	9.07E-03	2.69E-02	4.79E-02	7.00E-02	2.69E-02	pCi/m3
10GR(239659010) - AC	11-Oct-09	Iodine-131	4.73E-03	1.38E-02	2.48E-02	7.00E-02	1.38E-02	pCi/m3
10GR(240234010) - AC	17-Oct-09	Iodine-131	-1.51E-02	2.02E-02	2.98E-02	7.00E-02	2.02E-02	pCi/m3

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10GR(240679010) - AC	24-Oct-09	Iodine-131	-3.54E-02	3.89E-02	5.80E-02	7.00E-02	3.89E-02	pCi/m3
10GR(241208010) - AC	1-Nov-09	Iodine-131	-7.58E-04	2.17E-02	3.72E-02	7.00E-02	2.17E-02	pCi/m3
10GR(241712010) - AC	8-Nov-09	Iodine-131	1.67E-03	1.42E-02	2.36E-02	7.00E-02	1.42E-02	pCi/m3
10GR(242132010) - AC	15-Nov-09	Iodine-131	1.64E-02	2.66E-02	4.89E-02	7.00E-02	2.66E-02	pCi/m3
10GR(242400010) - AC	21-Nov-09	Iodine-131	-2.24E-02	2.24E-02	3.18E-02	7.00E-02	2.24E-02	pCi/m3
10GR(243000010) - AC	28-Nov-09	Iodine-131	3.16E-03	2.07E-02	3.63E-02	7.00E-02	2.07E-02	pCi/m3
10GR(243314010) - AC	5-Dec-09	Iodine-131	-1.13E-02	2.82E-02	4.53E-02	7.00E-02	2.82E-02	pCi/m3
10GR(243672010) - AC	12-Dec-09	Iodine-131	1.32E-02	2.70E-02	4.83E-02	7.00E-02	2.70E-02	pCi/m3
10GR(244368010) - AC	26-Dec-09	Iodine-131	3.73E-03	2.43E-02	4.18E-02	7.00E-02	2.43E-02	pCi/m3

10GR
AP

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
10GR(223772005) - AP	3-Jan-09	BETA	6.56E-02	6.48E-03	2.64E-03	1.00E-02	6.56E-03	pCi/m3
10GR(223773005) - AP	10-Jan-09	BETA	4.58E-02	5.93E-03	3.12E-03	1.00E-02	5.98E-03	pCi/m3
10GR(223716005) - AP	17-Jan-09	BETA	5.75E-02	6.29E-03	1.92E-03	1.00E-02	6.36E-03	pCi/m3
10GR(223998005) - AP	25-Jan-09	BETA	6.73E-02	6.88E-03	2.27E-03	1.00E-02	6.90E-03	pCi/m3
10GR(224501005) - AP	1-Feb-09	BETA	5.89E-02	6.32E-03	2.07E-03	1.00E-02	6.39E-03	pCi/m3
10GR(225206005) - AP	8-Feb-09	BETA	6.40E-02	6.67E-03	2.08E-03	1.00E-02	6.75E-03	pCi/m3
10GR(225207005) - AP	15-Feb-09	BETA	4.92E-02	6.00E-03	2.82E-03	1.00E-02	6.05E-03	pCi/m3
10GR(225581005) - AP	22-Feb-09	BETA	6.33E-02	6.99E-03	3.72E-03	1.00E-02	7.07E-03	pCi/m3
10GR(226027005) - AP	5-Mar-09	BETA	6.08E-02	7.02E-03	4.00E-03	1.00E-02	7.02E-03	pCi/m3
10GR(226577005) - AP	7-Mar-09	BETA	5.72E-02	6.38E-03	1.83E-03	1.00E-02	6.45E-03	pCi/m3
10GR(226991005) - AP	14-Mar-09	BETA	5.91E-02	6.54E-03	1.88E-03	1.00E-02	6.61E-03	pCi/m3
10GR(227208005) - AP	21-Mar-09	BETA	5.38E-02	6.41E-03	3.08E-03	1.00E-02	6.47E-03	pCi/m3
10GR(227641005) - AP	28-Mar-09	BETA	4.34E-02	5.52E-03	2.22E-03	1.00E-02	5.56E-03	pCi/m3
10GR(228145005) - AP	4-Apr-09	BETA	4.22E-02	5.46E-03	2.09E-03	1.00E-02	5.50E-03	pCi/m3
10GR(228145005) - AP	4-Apr-09	BETA	4.56E-02	5.99E-03	3.18E-03	1.00E-02	6.03E-03	pCi/m3
10GR(228451005) - AP	11-Apr-09	BETA	5.23E-02	6.19E-03	2.17E-03	1.00E-02	6.25E-03	pCi/m3
10GR(228451005) - AP	11-Apr-09	BETA	4.69E-02	6.04E-03	3.10E-03	1.00E-02	6.09E-03	pCi/m3
10GR(228795005) - AP	18-Apr-09	BETA	4.61E-02	6.53E-03	3.22E-03	1.00E-02	6.54E-03	pCi/m3
10GR(229611005) - AP	25-Apr-09	BETA	3.37E-02	4.36E-03	1.59E-03	1.00E-02	4.39E-03	pCi/m3
10GR(229611005) - AP	25-Apr-09	BETA	3.26E-02	4.57E-03	2.75E-03	1.00E-02	4.60E-03	pCi/m3
10GR(229841005) - AP	3-May-09	BETA	5.44E-02	6.89E-03	2.90E-03	1.00E-02	6.95E-03	pCi/m3
10GR(230590005) - AP	9-May-09	BETA	4.35E-02	4.08E-03	1.53E-03	1.00E-02	4.14E-03	pCi/m3
10GR(230594005) - AP	16-May-09	BETA	3.96E-02	3.84E-03	1.63E-03	1.00E-02	3.89E-03	pCi/m3
10GR(231128005) - AP	28-May-09	BETA	5.53E-02	6.39E-03	1.95E-03	1.00E-02	6.45E-03	pCi/m3
10GR(231469005) - AP	30-May-09	BETA	3.49E-02	3.93E-03	2.40E-03	1.00E-02	3.97E-03	pCi/m3
10GR(232150005) - AP	6-Jun-09	BETA	3.45E-02	4.07E-03	3.47E-03	1.00E-02	4.10E-03	pCi/m3
10GR(232595005) - AP	13-Jun-09	BETA	3.85E-02	3.79E-03	1.51E-03	1.00E-02	3.84E-03	pCi/m3
10GR(232878005) - AP	20-Jun-09	BETA	4.20E-02	5.70E-03	2.18E-03	1.00E-02	5.74E-03	pCi/m3
10GR(233212005) - AP	27-Jun-09	BETA	4.40E-02	4.10E-03	1.36E-03	1.00E-02	4.16E-03	pCi/m3
10GR(234044005) - AP	4-Jul-09	BETA	3.48E-02	4.05E-03	2.93E-03	1.00E-02	4.09E-03	pCi/m3
10GR(234047005) - AP	10-Jul-09	BETA	3.95E-02	4.19E-03	2.95E-03	1.00E-02	4.24E-03	pCi/m3
10GR(234348005) - AP	18-Jul-09	BETA	4.10E-02	3.93E-03	1.55E-03	1.00E-02	3.98E-03	pCi/m3

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10GR(235029005) - AP	26-Jul-09	BETA	5.57E-02	4.78E-03	1.88E-03	1.00E-02	4.79E-03	pCi/m3
10GR(235300005) - AP	2-Aug-09	BETA	5.13E-02	4.44E-03	1.96E-03	1.00E-02	4.52E-03	pCi/m3
10GR(235775005) - AP	8-Aug-09	BETA	5.42E-02	5.06E-03	3.13E-03	1.00E-02	5.16E-03	pCi/m3
10GR(236207005) - AP	15-Aug-09	BETA	6.27E-02	4.89E-03	2.25E-03	1.00E-02	4.99E-03	pCi/m3
10GR(236888005) - AP	23-Aug-09	BETA	3.34E-02	3.54E-03	1.31E-03	1.00E-02	3.58E-03	pCi/m3
10GR(237111005) - AP	29-Aug-09	BETA	3.66E-02	3.81E-03	1.51E-03	1.00E-02	3.85E-03	pCi/m3
10GR(237457005) - AP	5-Sep-09	BETA	7.07E-02	6.99E-03	2.58E-03	1.00E-02	7.09E-03	pCi/m3
10GR(237862005) - AP	12-Sep-09	BETA	7.19E-02	7.12E-03	2.54E-03	1.00E-02	7.21E-03	pCi/m3
10GR(238141005) - AP	19-Sep-09	BETA	4.04E-02	5.30E-03	2.42E-03	1.00E-02	5.34E-03	pCi/m3
10GR(238866005) - AP	26-Sep-09	BETA	3.70E-02	5.23E-03	2.89E-03	1.00E-02	5.26E-03	pCi/m3
10GR(239603005) - AP	3-Oct-09	BETA	3.18E-02	4.72E-03	2.10E-03	1.00E-02	4.75E-03	pCi/m3
10GR(239659005) - AP	11-Oct-09	BETA	3.46E-02	5.01E-03	3.06E-03	1.00E-02	5.04E-03	pCi/m3
10GR(240234005) - AP	17-Oct-09	BETA	3.94E-02	5.41E-03	2.92E-03	1.00E-02	5.45E-03	pCi/m3
10GR(240679005) - AP	24-Oct-09	BETA	3.51E-02	3.49E-03	1.66E-03	1.00E-02	3.53E-03	pCi/m3
10GR(241208005) - AP	1-Nov-09	BETA	4.20E-02	3.73E-03	1.62E-03	1.00E-02	3.79E-03	pCi/m3
10GR(241712005) - AP	8-Nov-09	BETA	4.74E-02	5.38E-03	2.36E-03	1.00E-02	5.44E-03	pCi/m3
10GR(242132005) - AP	15-Nov-09	BETA	4.85E-02	6.46E-03	3.66E-03	1.00E-02	6.51E-03	pCi/m3
10GR(242400005) - AP	21-Nov-09	BETA	6.56E-02	4.75E-03	1.82E-03	1.00E-02	4.86E-03	pCi/m3
10GR(243000005) - AP	28-Nov-09	BETA	3.97E-02	5.34E-03	3.07E-03	1.00E-02	5.38E-03	pCi/m3
10GR(243314005) - AP	5-Dec-09	BETA	4.38E-02	5.43E-03	2.84E-03	1.00E-02	5.47E-03	pCi/m3
10GR(243672005) - AP	12-Dec-09	BETA	7.12E-02	6.82E-03	2.87E-03	1.00E-02	6.92E-03	pCi/m3
10GR(244368005) - AP	26-Dec-09	BETA	4.28E-02	5.41E-03	2.30E-03	1.00E-02	5.45E-03	pCi/m3
10GR(228733005) - AP	10-Feb-09	Beryllium-7	1.16E-01	1.76E-02	9.41E-03		1.78E-02	pCi/m3
10GR(239870005) - AP	9-May-09	Beryllium-7	1.92E-01	5.27E-02	3.36E-02		5.29E-02	pCi/m3
10GR(239871005) - AP	8-Aug-09	Beryllium-7	1.48E-01	2.29E-02	1.30E-02		2.31E-02	pCi/m3
10GR(245504005) - AP	4-Nov-09	Beryllium-7	9.29E-02	2.16E-02	1.50E-02		2.17E-02	pCi/m3
10GR(228733005) - AP	10-Feb-09	Cesium-134	-3.20E-04	3.30E-04	4.60E-04	5.00E-02	3.30E-04	pCi/m3
10GR(239870005) - AP	9-May-09	Cesium-134	-4.87E-05	4.33E-04	7.14E-04	5.00E-02	4.33E-04	pCi/m3
10GR(239871005) - AP	8-Aug-09	Cesium-134	-2.83E-04	4.04E-04	5.94E-04	5.00E-02	4.04E-04	pCi/m3
10GR(245504005) - AP	4-Nov-09	Cesium-134	-1.71E-04	4.89E-04	7.71E-04	5.00E-02	4.89E-04	pCi/m3
10GR(228733005) - AP	10-Feb-09	Cesium-137	1.24E-04	2.36E-04	4.21E-04	6.00E-02	2.36E-04	pCi/m3
10GR(239870005) - AP	9-May-09	Cesium-137	-3.60E-05	3.76E-04	6.31E-04	6.00E-02	3.76E-04	pCi/m3
10GR(239871005) - AP	8-Aug-09	Cesium-137	1.66E-04	3.31E-04	6.01E-04	6.00E-02	3.31E-04	pCi/m3
10GR(245504005) - AP	4-Nov-09	Cesium-137	-2.35E-04	4.35E-04	6.72E-04	6.00E-02	4.35E-04	pCi/m3

4JS
AC

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
4JS(223769006) - AC	2-Jan-09	Iodine-131	1.26E-03	2.68E-02	4.53E-02	7.00E-02	2.68E-02	pCi/m3
4JS(223772006) - AC	9-Jan-09	Iodine-131	9.17E-03	1.15E-02	2.18E-02	7.00E-02	1.15E-02	pCi/m3
4JS(223773006) - AC	15-Jan-09	Iodine-131	-4.06E-03	1.78E-02	2.87E-02	7.00E-02	1.78E-02	pCi/m3
4JS(223716006) - AC	22-Jan-09	Iodine-131	4.60E-03	1.01E-02	1.85E-02	7.00E-02	1.01E-02	pCi/m3
4JS(223998006) - AC	29-Jan-09	Iodine-131	9.75E-03	9.41E-03	1.80E-02	7.00E-02	9.41E-03	pCi/m3
4JS(224501006) - AC	5-Feb-09	Iodine-131	3.45E-03	1.17E-02	2.02E-02	7.00E-02	1.17E-02	pCi/m3
4JS(225206006) - AC	13-Feb-09	Iodine-131	1.07E-02	1.39E-02	2.62E-02	7.00E-02	1.39E-02	pCi/m3

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4JS(225207006) - AC	20-Feb-09	Iodine-131	-3.68E-03	1.33E-02	2.18E-02	7.00E-02	1.33E-02	pCi/m3
4JS(225581006) - AC	26-Feb-09	Iodine-131	-2.05E-03	1.07E-02	1.74E-02	7.00E-02	1.07E-02	pCi/m3
4JS(226027006) - AC	5-Mar-09	Iodine-131	5.51E-03	1.05E-02	1.88E-02	7.00E-02	1.05E-02	pCi/m3
4JS(226577006) - AC	12-Mar-09	Iodine-131	-4.79E-03	1.64E-02	2.69E-02	7.00E-02	1.64E-02	pCi/m3
4JS(226991006) - AC	19-Mar-09	Iodine-131	-7.70E-03	1.19E-02	1.91E-02	7.00E-02	1.19E-02	pCi/m3
4JS(227208006) - AC	26-Mar-09	Iodine-131	4.53E-03	1.64E-02	2.79E-02	7.00E-02	1.64E-02	pCi/m3
4JS(227641006) - AC	3-Apr-09	Iodine-131	5.92E-03	1.34E-02	2.39E-02	7.00E-02	1.34E-02	pCi/m3
4JS(228145006) - AC	9-Apr-09	Iodine-131	-6.76E-03	1.17E-02	1.82E-02	7.00E-02	1.17E-02	pCi/m3
4JS(228451006) - AC	17-Apr-09	Iodine-131	1.56E-03	8.23E-03	1.42E-02	7.00E-02	8.23E-03	pCi/m3
4JS(228795006) - AC	23-Apr-09	Iodine-131	1.25E-02	1.76E-02	3.13E-02	7.00E-02	1.76E-02	pCi/m3
4JS(229611006) - AC	30-Apr-09	Iodine-131	-1.26E-02	1.95E-02	2.96E-02	7.00E-02	1.95E-02	pCi/m3
4JS(229841006) - AC	7-May-09	Iodine-131	-1.64E-02	1.49E-02	2.16E-02	7.00E-02	1.49E-02	pCi/m3
4JS(230590006) - AC	14-May-09	Iodine-131	-1.02E-03	2.28E-02	3.86E-02	7.00E-02	2.28E-02	pCi/m3
4JS(230594006) - AC	21-May-09	Iodine-131	-8.27E-03	9.87E-03	1.43E-02	7.00E-02	9.87E-03	pCi/m3
4JS(231128006) - AC	28-May-09	Iodine-131	-2.36E-03	1.11E-02	1.84E-02	7.00E-02	1.11E-02	pCi/m3
4JS(231469006) - AC	5-Jun-09	Iodine-131	-1.37E-03	1.39E-02	2.27E-02	7.00E-02	1.39E-02	pCi/m3
4JS(232150006) - AC	12-Jun-09	Iodine-131	-1.09E-03	1.64E-02	2.70E-02	7.00E-02	1.64E-02	pCi/m3
4JS(232595006) - AC	19-Jun-09	Iodine-131	-3.02E-04	1.34E-02	2.30E-02	7.00E-02	1.34E-02	pCi/m3
4JS(232878006) - AC	25-Jun-09	Iodine-131	-6.93E-03	1.62E-02	2.56E-02	7.00E-02	1.62E-02	pCi/m3
4JS(233212006) - AC	2-Jul-09	Iodine-131	-6.35E-03	1.08E-02	1.63E-02	7.00E-02	1.08E-02	pCi/m3
4JS(234044006) - AC	10-Jul-09	Iodine-131	6.93E-03	1.83E-02	3.36E-02	7.00E-02	1.83E-02	pCi/m3
4JS(234047008) - AC	16-Jul-09	Iodine-131	6.40E-03	1.64E-02	2.92E-02	7.00E-02	1.64E-02	pCi/m3
4JS(234348008) - AC	23-Jul-09	Iodine-131	2.16E-03	7.65E-03	1.35E-02	7.00E-02	7.65E-03	pCi/m3
4JS(235029008) - AC	30-Jul-09	Iodine-131	1.03E-03	1.78E-02	2.98E-02	7.00E-02	1.78E-02	pCi/m3
4JS(235300008) - AC	6-Aug-09	Iodine-131	-1.45E-02	1.71E-02	2.54E-02	7.00E-02	1.71E-02	pCi/m3
4JS(235775008) - AC	13-Aug-09	Iodine-131	1.24E-03	1.35E-02	2.32E-02	7.00E-02	1.35E-02	pCi/m3
4JS(236207008) - AC	20-Aug-09	Iodine-131	9.48E-03	1.09E-02	2.07E-02	7.00E-02	1.09E-02	pCi/m3
4JS(236888008) - AC	27-Aug-09	Iodine-131	-5.04E-03	1.57E-02	2.54E-02	7.00E-02	1.57E-02	pCi/m3
4JS(237111008) - AC	4-Sep-09	Iodine-131	5.02E-03	1.04E-02	1.89E-02	7.00E-02	1.04E-02	pCi/m3
4JS(237457008) - AC	11-Sep-09	Iodine-131	5.46E-03	1.12E-02	2.03E-02	7.00E-02	1.12E-02	pCi/m3
4JS(237862008) - AC	18-Sep-09	Iodine-131	-8.88E-03	1.08E-02	1.60E-02	7.00E-02	1.08E-02	pCi/m3
4JS(238141008) - AC	24-Sep-09	Iodine-131	-1.86E-03	1.17E-02	1.95E-02	7.00E-02	1.17E-02	pCi/m3
4JS(238866008) - AC	1-Oct-09	Iodine-131	3.59E-03	1.80E-02	3.15E-02	7.00E-02	1.80E-02	pCi/m3
4JS(239603008) - AC	9-Oct-09	Iodine-131	-1.30E-02	1.84E-02	2.69E-02	7.00E-02	1.84E-02	pCi/m3
4JS(239659008) - AC	16-Oct-09	Iodine-131	4.04E-03	1.27E-02	2.24E-02	7.00E-02	1.27E-02	pCi/m3
4JS(240234008) - AC	23-Oct-09	Iodine-131	-2.59E-03	1.50E-02	2.42E-02	7.00E-02	1.50E-02	pCi/m3
4JS(240679008) - AC	30-Oct-09	Iodine-131	1.58E-03	1.42E-02	2.49E-02	7.00E-02	1.42E-02	pCi/m3
4JS(241208008) - AC	5-Nov-09	Iodine-131	-1.66E-03	1.21E-02	2.05E-02	7.00E-02	1.21E-02	pCi/m3
4JS(241712008) - AC	12-Nov-09	Iodine-131	-9.40E-03	1.78E-02	2.84E-02	7.00E-02	1.78E-02	pCi/m3
4JS(242132008) - AC	19-Nov-09	Iodine-131	-1.66E-02	1.58E-02	2.20E-02	7.00E-02	1.58E-02	pCi/m3
4JS(242400008) - AC	26-Nov-09	Iodine-131	6.92E-03	1.43E-02	2.59E-02	7.00E-02	1.43E-02	pCi/m3
4JS(243000008) - AC	3-Dec-09	Iodine-131	8.98E-03	1.38E-02	2.47E-02	7.00E-02	1.38E-02	pCi/m3
4JS(243314008) - AC	11-Dec-09	Iodine-131	1.02E-03	1.17E-02	1.99E-02	7.00E-02	1.17E-02	pCi/m3
4JS(243672008) - AC	18-Dec-09	Iodine-131	4.27E-03	1.25E-02	2.23E-02	7.00E-02	1.25E-02	pCi/m3
4JS(244379007) - AC	25-Dec-09	Iodine-131	5.33E-03	2.30E-02	3.99E-02	7.00E-02	2.30E-02	pCi/m3

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4JS
AP

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
4JS(223769001) - AP	2-Jan-09	BETA	7.29E-02	7.41E-03	3.14E-03	1.00E-02	7.50E-03	pCi/m3
4JS(223772001) - AP	9-Jan-09	BETA	6.84E-02	6.85E-03	1.76E-03	1.00E-02	6.94E-03	pCi/m3
4JS(223773001) - AP	15-Jan-09	BETA	5.91E-02	6.51E-03	2.04E-03	1.00E-02	6.58E-03	pCi/m3
4JS(223716001) - AP	22-Jan-09	BETA	7.07E-02	7.11E-03	2.62E-03	1.00E-02	7.20E-03	pCi/m3
4JS(223998001) - AP	29-Jan-09	BETA	8.15E-02	7.66E-03	1.95E-03	1.00E-02	7.69E-03	pCi/m3
4JS(224501001) - AP	5-Feb-09	BETA	6.47E-02	6.66E-03	2.09E-03	1.00E-02	6.74E-03	pCi/m3
4JS(225206001) - AP	13-Feb-09	BETA	5.11E-02	5.65E-03	1.92E-03	1.00E-02	5.71E-03	pCi/m3
4JS(225207001) - AP	20-Feb-09	BETA	5.91E-02	7.00E-03	2.30E-03	1.00E-02	7.06E-03	pCi/m3
4JS(225581001) - AP	26-Feb-09	BETA	5.99E-02	6.95E-03	3.36E-03	1.00E-02	7.02E-03	pCi/m3
4JS(226027001) - AP	5-Mar-09	BETA	6.38E-02	7.15E-03	3.05E-03	1.00E-02	7.25E-03	pCi/m3
4JS(226577001) - AP	12-Mar-09	BETA	5.35E-02	6.31E-03	1.91E-03	1.00E-02	6.37E-03	pCi/m3
4JS(226991001) - AP	19-Mar-09	BETA	5.89E-02	6.76E-03	3.63E-03	1.00E-02	6.82E-03	pCi/m3
4JS(227208001) - AP	26-Mar-09	BETA	4.01E-02	5.50E-03	1.99E-03	1.00E-02	5.52E-03	pCi/m3
4JS(227641001) - AP	3-Apr-09	BETA	4.12E-02	5.74E-03	3.09E-03	1.00E-02	5.77E-03	pCi/m3
4JS(228145001) - AP	9-Apr-09	BETA	4.84E-02	6.33E-03	3.98E-03	1.00E-02	6.38E-03	pCi/m3
4JS(228145001) - AP	9-Apr-09	BETA	4.47E-02	5.96E-03	2.60E-03	1.00E-02	5.97E-03	pCi/m3
4JS(228451001) - AP	17-Apr-09	BETA	5.17E-02	6.43E-03	3.72E-03	1.00E-02	6.45E-03	pCi/m3
4JS(228451001) - AP	17-Apr-09	BETA	5.18E-02	6.04E-03	2.14E-03	1.00E-02	6.09E-03	pCi/m3
4JS(228795001) - AP	23-Apr-09	BETA	3.36E-02	5.18E-03	2.30E-03	1.00E-02	5.21E-03	pCi/m3
4JS(229611001) - AP	30-Apr-09	BETA	3.75E-02	5.39E-03	2.26E-03	1.00E-02	5.43E-03	pCi/m3
4JS(229611001) - AP	30-Apr-09	BETA	3.55E-02	5.18E-03	2.47E-03	1.00E-02	5.21E-03	pCi/m3
4JS(229841001) - AP	7-May-09	BETA	4.33E-02	5.65E-03	2.21E-03	1.00E-02	5.70E-03	pCi/m3
4JS(230590001) - AP	14-May-09	BETA	3.62E-02	3.79E-03	2.25E-03	1.00E-02	3.83E-03	pCi/m3
4JS(230594001) - AP	21-May-09	BETA	5.04E-02	4.47E-03	1.66E-03	1.00E-02	4.55E-03	pCi/m3
4JS(231128001) - AP	28-May-09	BETA	3.71E-02	5.16E-03	1.91E-03	1.00E-02	5.19E-03	pCi/m3
4JS(231469001) - AP	5-Jun-09	BETA	4.67E-02	4.39E-03	2.30E-03	1.00E-02	4.42E-03	pCi/m3
4JS(232150001) - AP	12-Jun-09	BETA	3.69E-02	3.80E-03	1.58E-03	1.00E-02	3.85E-03	pCi/m3
4JS(232595001) - AP	19-Jun-09	BETA	4.84E-02	4.35E-03	1.88E-03	1.00E-02	4.42E-03	pCi/m3
4JS(232878001) - AP	25-Jun-09	BETA	5.78E-02	6.78E-03	2.81E-03	1.00E-02	6.84E-03	pCi/m3
4JS(233212001) - AP	2-Jul-09	BETA	2.85E-02	3.35E-03	1.57E-03	1.00E-02	3.36E-03	pCi/m3
4JS(234044001) - AP	10-Jul-09	BETA	4.42E-02	4.56E-03	2.93E-03	1.00E-02	4.63E-03	pCi/m3
4JS(234047003) - AP	16-Jul-09	BETA	3.30E-02	4.00E-03	3.03E-03	1.00E-02	4.04E-03	pCi/m3
4JS(234348003) - AP	23-Jul-09	BETA	4.78E-02	4.39E-03	2.19E-03	1.00E-02	4.46E-03	pCi/m3
4JS(235029003) - AP	30-Jul-09	BETA	4.71E-02	4.52E-03	2.44E-03	1.00E-02	4.53E-03	pCi/m3
4JS(235300003) - AP	6-Aug-09	BETA	5.89E-02	4.73E-03	1.30E-03	1.00E-02	4.82E-03	pCi/m3
4JS(235775003) - AP	13-Aug-09	BETA	5.59E-02	4.70E-03	1.44E-03	1.00E-02	4.74E-03	pCi/m3
4JS(236207003) - AP	20-Aug-09	BETA	3.30E-02	3.59E-03	1.80E-03	1.00E-02	3.63E-03	pCi/m3
4JS(236888003) - AP	27-Aug-09	BETA	3.72E-02	4.03E-03	2.87E-03	1.00E-02	4.07E-03	pCi/m3
4JS(237111003) - AP	4-Sep-09	BETA	6.23E-02	4.77E-03	2.64E-03	1.00E-02	4.87E-03	pCi/m3
4JS(237457003) - AP	11-Sep-09	BETA	6.82E-02	7.18E-03	2.70E-03	1.00E-02	7.26E-03	pCi/m3
4JS(237862003) - AP	18-Sep-09	BETA	5.78E-02	6.74E-03	3.92E-03	1.00E-02	6.80E-03	pCi/m3

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4JS(238141003) - AP	24-Sep-09	BETA	5.26E-02	6.25E-03	3.69E-03	1.00E-02	6.31E-03	pCi/m3
4JS(238866003) - AP	1-Oct-09	BETA	2.10E-02	3.97E-03	2.66E-03	1.00E-02	3.99E-03	pCi/m3
4JS(239603003) - AP	9-Oct-09	BETA	3.19E-02	4.60E-03	2.47E-03	1.00E-02	4.62E-03	pCi/m3
4JS(239659003) - AP	16-Oct-09	BETA	4.12E-02	6.25E-03	3.74E-03	1.00E-02	6.28E-03	pCi/m3
4JS(240234003) - AP	23-Oct-09	BETA	3.41E-02	5.17E-03	2.93E-03	1.00E-02	5.20E-03	pCi/m3
4JS(240679003) - AP	30-Oct-09	BETA	4.26E-02	3.61E-03	2.08E-03	1.00E-02	3.67E-03	pCi/m3
4JS(241208003) - AP	5-Nov-09	BETA	5.04E-02	4.08E-03	2.26E-03	1.00E-02	4.15E-03	pCi/m3
4JS(241712003) - AP	12-Nov-09	BETA	3.59E-02	4.85E-03	3.28E-03	1.00E-02	4.88E-03	pCi/m3
4JS(242132003) - AP	19-Nov-09	BETA	5.74E-02	5.95E-03	2.88E-03	1.00E-02	6.02E-03	pCi/m3
4JS(242400003) - AP	26-Nov-09	BETA	5.48E-02	4.08E-03	2.18E-03	1.00E-02	4.18E-03	pCi/m3
4JS(243000003) - AP	3-Dec-09	BETA	4.62E-02	5.38E-03	2.80E-03	1.00E-02	5.43E-03	pCi/m3
4JS(243314003) - AP	11-Dec-09	BETA	6.26E-02	5.99E-03	2.05E-03	1.00E-02	6.07E-03	pCi/m3
4JS(243672003) - AP	18-Dec-09	BETA	6.15E-02	6.09E-03	2.83E-03	1.00E-02	6.17E-03	pCi/m3
4JS(244379003) - AP	25-Dec-09	BETA	5.44E-02	5.69E-03	2.67E-03	1.00E-02	5.76E-03	pCi/m3
4JS(228733001) - AP	13-Feb-09	Beryllium-7	1.01E-01	1.68E-02	9.12E-03		1.69E-02	pCi/m3
4JS(239870001) - AP	14-May-09	Beryllium-7	1.58E-01	5.71E-02	3.70E-02		5.72E-02	pCi/m3
4JS(239871001) - AP	13-Aug-09	Beryllium-7	1.58E-01	2.20E-02	1.15E-02		2.22E-02	pCi/m3
4JS(245504003) - AP	12-Nov-09	Beryllium-7	1.16E-01	1.91E-02	1.17E-02		1.92E-02	pCi/m3
4JS(228733001) - AP	13-Feb-09	Cesium-134	5.40E-05	3.07E-04	5.29E-04	5.00E-02	3.07E-04	pCi/m3
4JS(239870001) - AP	14-May-09	Cesium-134	1.33E-04	4.83E-04	8.36E-04	5.00E-02	4.83E-04	pCi/m3
4JS(239871001) - AP	13-Aug-09	Cesium-134	6.64E-05	4.44E-04	7.76E-04	5.00E-02	4.44E-04	pCi/m3
4JS(245504003) - AP	12-Nov-09	Cesium-134	-1.31E-04	4.42E-04	7.05E-04	5.00E-02	4.42E-04	pCi/m3
4JS(228733001) - AP	13-Feb-09	Cesium-137	7.91E-05	2.40E-04	4.23E-04	6.00E-02	2.40E-04	pCi/m3
4JS(239870001) - AP	14-May-09	Cesium-137	-5.19E-05	3.68E-04	6.03E-04	6.00E-02	3.68E-04	pCi/m3
4JS(239871001) - AP	13-Aug-09	Cesium-137	-8.31E-06	3.21E-04	5.30E-04	6.00E-02	3.21E-04	pCi/m3
4JS(245504003) - AP	12-Nov-09	Cesium-137	1.45E-04	3.66E-04	6.52E-04	6.00E-02	3.66E-04	pCi/m3
4JS(228733001) - AP	13-Feb-09	Cobalt-58	8.38E-03	1.77E-03	1.10E-03		1.77E-03	pCi/m3

5PR
AC

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
5PR(223769007) - AC	2-Jan-09	Iodine-131	1.92E-02	2.12E-02	4.09E-02	7.00E-02	2.12E-02	pCi/m3
5PR(223772007) - AC	9-Jan-09	Iodine-131	2.56E-03	1.07E-02	1.91E-02	7.00E-02	1.07E-02	pCi/m3
5PR(223773007) - AC	15-Jan-09	Iodine-131	1.69E-03	1.10E-02	1.85E-02	7.00E-02	1.10E-02	pCi/m3
5PR(223716007) - AC	22-Jan-09	Iodine-131	3.50E-03	7.03E-03	1.28E-02	7.00E-02	7.03E-03	pCi/m3
5PR(223998007) - AC	29-Jan-09	Iodine-131	-5.32E-03	1.30E-02	2.03E-02	7.00E-02	1.30E-02	pCi/m3
5PR(224501007) - AC	5-Feb-09	Iodine-131	6.50E-03	9.35E-03	1.72E-02	7.00E-02	9.35E-03	pCi/m3
5PR(225206007) - AC	13-Feb-09	Iodine-131	-4.76E-03	1.73E-02	2.75E-02	7.00E-02	1.73E-02	pCi/m3
5PR(225207007) - AC	20-Feb-09	Iodine-131	3.63E-03	8.57E-03	1.48E-02	7.00E-02	8.57E-03	pCi/m3
5PR(225581007) - AC	26-Feb-09	Iodine-131	3.78E-03	1.07E-02	1.89E-02	7.00E-02	1.07E-02	pCi/m3
5PR(226027007) - AC	5-Mar-09	Iodine-131	4.28E-04	9.64E-03	1.60E-02	7.00E-02	9.64E-03	pCi/m3
5PR(226577007) - AC	12-Mar-09	Iodine-131	7.48E-03	1.28E-02	2.31E-02	7.00E-02	1.28E-02	pCi/m3
5PR(226991007) - AC	19-Mar-09	Iodine-131	-7.69E-03	9.21E-03	1.43E-02	7.00E-02	9.21E-03	pCi/m3
5PR(227208007) - AC	26-Mar-09	Iodine-131	-3.45E-03	1.29E-02	2.12E-02	7.00E-02	1.29E-02	pCi/m3
5PR(227641007) - AC	3-Apr-09	Iodine-131	6.84E-04	7.88E-03	1.38E-02	7.00E-02	7.88E-03	pCi/m3

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5PR(228145007) - AC	9-Apr-09	Iodine-131	-2.91E-03	6.05E-03	8.93E-03	7.00E-02	6.05E-03	pCi/m3
5PR(228451007) - AC	17-Apr-09	Iodine-131	2.52E-03	8.33E-03	1.46E-02	7.00E-02	8.33E-03	pCi/m3
5PR(228795007) - AC	23-Apr-09	Iodine-131	-5.20E-03	1.27E-02	2.04E-02	7.00E-02	1.27E-02	pCi/m3
5PR(229611007) - AC	30-Apr-09	Iodine-131	5.40E-03	1.41E-02	2.48E-02	7.00E-02	1.41E-02	pCi/m3
5PR(229841007) - AC	7-May-09	Iodine-131	1.49E-03	1.48E-02	2.55E-02	7.00E-02	1.48E-02	pCi/m3
5PR(230590007) - AC	14-May-09	Iodine-131	-8.85E-03	2.71E-02	4.33E-02	7.00E-02	2.71E-02	pCi/m3
5PR(230594007) - AC	21-May-09	Iodine-131	1.68E-03	1.62E-02	2.80E-02	7.00E-02	1.62E-02	pCi/m3
5PR(231128007) - AC	28-May-09	Iodine-131	-5.45E-04	7.29E-03	1.23E-02	7.00E-02	7.29E-03	pCi/m3
5PR(231469007) - AC	5-Jun-09	Iodine-131	-6.34E-03	9.82E-03	1.53E-02	7.00E-02	9.82E-03	pCi/m3
5PR(232150007) - AC	12-Jun-09	Iodine-131	4.69E-03	1.31E-02	2.31E-02	7.00E-02	1.31E-02	pCi/m3
5PR(232595007) - AC	19-Jun-09	Iodine-131	-7.30E-03	2.13E-02	3.35E-02	7.00E-02	2.13E-02	pCi/m3
5PR(232878007) - AC	25-Jun-09	Iodine-131	8.40E-03	1.61E-02	2.86E-02	7.00E-02	1.61E-02	pCi/m3
5PR(233212007) - AC	2-Jul-09	Iodine-131	-3.96E-03	1.07E-02	1.73E-02	7.00E-02	1.07E-02	pCi/m3
5PR(234044007) - AC	10-Jul-09	Iodine-131	-7.87E-04	1.34E-02	2.29E-02	7.00E-02	1.34E-02	pCi/m3
5PR(234047009) - AC	16-Jul-09	Iodine-131	-5.66E-03	1.77E-02	2.89E-02	7.00E-02	1.77E-02	pCi/m3
5PR(234348009) - AC	23-Jul-09	Iodine-131	1.76E-03	6.37E-03	1.14E-02	7.00E-02	6.37E-03	pCi/m3
5PR(235029009) - AC	30-Jul-09	Iodine-131	2.60E-03	1.20E-02	2.13E-02	7.00E-02	1.20E-02	pCi/m3
5PR(235300009) - AC	6-Aug-09	Iodine-131	2.71E-03	1.18E-02	2.05E-02	7.00E-02	1.18E-02	pCi/m3
5PR(235775009) - AC	13-Aug-09	Iodine-131	2.27E-04	1.12E-02	1.93E-02	7.00E-02	1.12E-02	pCi/m3
5PR(236207009) - AC	20-Aug-09	Iodine-131	-1.11E-02	8.20E-03	1.18E-02	7.00E-02	8.20E-03	pCi/m3
5PR(236888009) - AC	27-Aug-09	Iodine-131	-4.27E-03	1.53E-02	2.55E-02	7.00E-02	1.53E-02	pCi/m3
5PR(237111009) - AC	4-Sep-09	Iodine-131	4.24E-03	7.93E-03	1.45E-02	7.00E-02	7.93E-03	pCi/m3
5PR(237457009) - AC	11-Sep-09	Iodine-131	4.14E-03	1.45E-02	2.52E-02	7.00E-02	1.45E-02	pCi/m3
5PR(237862009) - AC	18-Sep-09	Iodine-131	3.25E-03	1.13E-02	2.00E-02	7.00E-02	1.13E-02	pCi/m3
5PR(238141009) - AC	24-Sep-09	Iodine-131	8.14E-03	1.14E-02	2.07E-02	7.00E-02	1.14E-02	pCi/m3
5PR(238866009) - AC	1-Oct-09	Iodine-131	-3.87E-04	1.65E-02	2.74E-02	7.00E-02	1.65E-02	pCi/m3
5PR(239603009) - AC	9-Oct-09	Iodine-131	-1.52E-02	1.73E-02	2.48E-02	7.00E-02	1.73E-02	pCi/m3
5PR(239659009) - AC	16-Oct-09	Iodine-131	-9.52E-04	1.06E-02	1.77E-02	7.00E-02	1.06E-02	pCi/m3
5PR(240234009) - AC	23-Oct-09	Iodine-131	-1.61E-02	2.09E-02	3.13E-02	7.00E-02	2.09E-02	pCi/m3
5PR(240679009) - AC	30-Oct-09	Iodine-131	-5.98E-03	9.77E-03	1.47E-02	7.00E-02	9.78E-03	pCi/m3
5PR(241208009) - AC	5-Nov-09	Iodine-131	1.70E-05	1.47E-02	2.44E-02	7.00E-02	1.47E-02	pCi/m3
5PR(241712009) - AC	12-Nov-09	Iodine-131	-9.47E-03	1.15E-02	1.64E-02	7.00E-02	1.15E-02	pCi/m3
5PR(242132009) - AC	19-Nov-09	Iodine-131	1.26E-02	2.69E-02	4.84E-02	7.00E-02	2.69E-02	pCi/m3
5PR(242400009) - AC	26-Nov-09	Iodine-131	1.88E-03	1.41E-02	2.39E-02	7.00E-02	1.41E-02	pCi/m3
5PR(243000009) - AC	4-Dec-09	Iodine-131	8.91E-03	1.82E-02	3.31E-02	7.00E-02	1.82E-02	pCi/m3
5PR(243314009) - AC	11-Dec-09	Iodine-131	-2.33E-03	1.04E-02	1.71E-02	7.00E-02	1.04E-02	pCi/m3
5PR(243672009) - AC	18-Dec-09	Iodine-131	9.18E-03	1.85E-02	3.38E-02	7.00E-02	1.85E-02	pCi/m3
5PR(244379008) - AC	25-Dec-09	Iodine-131	1.46E-02	1.90E-02	3.55E-02	7.00E-02	1.90E-02	pCi/m3

5PR
AP

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
5PR(223769002) - AP	2-Jan-09	BETA	7.36E-02	7.29E-03	2.67E-03	1.00E-02	7.39E-03	pCi/m3
5PR(223772002) - AP	9-Jan-09	BETA	7.02E-02	6.38E-03	1.50E-03	1.00E-02	6.47E-03	pCi/m3
5PR(223773002) - AP	15-Jan-09	BETA	5.84E-02	6.44E-03	1.89E-03	1.00E-02	6.50E-03	pCi/m3

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5PR(223716002) - AP	22-Jan-09	BETA	7.39E-02	6.64E-03	2.56E-03	1.00E-02	6.74E-03	pCi/m3
5PR(223998002) - AP	29-Jan-09	BETA	6.94E-02	7.11E-03	2.03E-03	1.00E-02	7.13E-03	pCi/m3
5PR(224501002) - AP	5-Feb-09	BETA	5.91E-02	6.07E-03	2.63E-03	1.00E-02	6.14E-03	pCi/m3
5PR(225206002) - AP	13-Feb-09	BETA	5.53E-02	6.12E-03	2.73E-03	1.00E-02	6.18E-03	pCi/m3
5PR(225207002) - AP	20-Feb-09	BETA	5.42E-02	5.99E-03	2.03E-03	1.00E-02	6.06E-03	pCi/m3
5PR(225581002) - AP	26-Feb-09	BETA	5.81E-02	6.44E-03	2.16E-03	1.00E-02	6.51E-03	pCi/m3
5PR(226027002) - AP	5-Mar-09	BETA	5.71E-02	6.06E-03	2.25E-03	1.00E-02	6.10E-03	pCi/m3
5PR(226577002) - AP	12-Mar-09	BETA	6.24E-02	6.87E-03	2.67E-03	1.00E-02	6.94E-03	pCi/m3
5PR(226991002) - AP	19-Mar-09	BETA	5.76E-02	6.02E-03	2.59E-03	1.00E-02	6.09E-03	pCi/m3
5PR(227208002) - AP	26-Mar-09	BETA	3.98E-02	6.14E-03	3.99E-03	1.00E-02	6.19E-03	pCi/m3
5PR(227641002) - AP	3-Apr-09	BETA	4.22E-02	5.56E-03	3.85E-03	1.00E-02	5.56E-03	pCi/m3
5PR(228145002) - AP	9-Apr-09	BETA	4.31E-02	5.79E-03	2.27E-03	1.00E-02	5.83E-03	pCi/m3
5PR(228145002) - AP	9-Apr-09	BETA	4.45E-02	5.91E-03	2.30E-03	1.00E-02	5.93E-03	pCi/m3
5PR(228451002) - AP	17-Apr-09	BETA	5.48E-02	5.89E-03	2.60E-03	1.00E-02	5.95E-03	pCi/m3
5PR(228451002) - AP	17-Apr-09	BETA	5.05E-02	5.74E-03	3.26E-03	1.00E-02	5.80E-03	pCi/m3
5PR(228795002) - AP	23-Apr-09	BETA	3.86E-02	6.10E-03	4.60E-03	1.00E-02	6.13E-03	pCi/m3
5PR(229611002) - AP	30-Apr-09	BETA	3.99E-02	5.07E-03	1.99E-03	1.00E-02	5.11E-03	pCi/m3
5PR(229611002) - AP	30-Apr-09	BETA	3.32E-02	4.78E-03	2.39E-03	1.00E-02	4.79E-03	pCi/m3
5PR(229841002) - AP	7-May-09	BETA	4.45E-02	6.16E-03	3.50E-03	1.00E-02	6.20E-03	pCi/m3
5PR(230590002) - AP	14-May-09	BETA	3.90E-02	3.67E-03	2.34E-03	1.00E-02	3.73E-03	pCi/m3
5PR(230594002) - AP	21-May-09	BETA	5.03E-02	4.60E-03	1.58E-03	1.00E-02	4.66E-03	pCi/m3
5PR(231128002) - AP	28-May-09	BETA	3.45E-02	4.87E-03	2.91E-03	1.00E-02	4.90E-03	pCi/m3
5PR(231469002) - AP	5-Jun-09	BETA	4.94E-02	4.68E-03	2.37E-03	1.00E-02	4.71E-03	pCi/m3
5PR(232150002) - AP	12-Jun-09	BETA	3.21E-02	3.22E-03	1.18E-03	1.00E-02	3.26E-03	pCi/m3
5PR(232595002) - AP	19-Jun-09	BETA	5.78E-02	5.39E-03	3.41E-03	1.00E-02	5.47E-03	pCi/m3
5PR(232878002) - AP	25-Jun-09	BETA	5.40E-02	6.03E-03	1.80E-03	1.00E-02	6.09E-03	pCi/m3
5PR(233212002) - AP	2-Jul-09	BETA	3.08E-02	3.88E-03	3.14E-03	1.00E-02	3.89E-03	pCi/m3
5PR(234044002) - AP	10-Jul-09	BETA	4.06E-02	3.80E-03	2.17E-03	1.00E-02	3.83E-03	pCi/m3
5PR(234047004) - AP	16-Jul-09	BETA	3.74E-02	4.22E-03	2.52E-03	1.00E-02	4.26E-03	pCi/m3
5PR(234348004) - AP	23-Jul-09	BETA	4.95E-02	3.99E-03	1.41E-03	1.00E-02	4.07E-03	pCi/m3
5PR(235029004) - AP	30-Jul-09	BETA	4.45E-02	4.38E-03	1.97E-03	1.00E-02	4.41E-03	pCi/m3
5PR(235300004) - AP	6-Aug-09	BETA	5.19E-02	4.17E-03	1.99E-03	1.00E-02	4.25E-03	pCi/m3
5PR(235775004) - AP	13-Aug-09	BETA	6.14E-02	4.98E-03	1.65E-03	1.00E-02	5.02E-03	pCi/m3
5PR(236207004) - AP	20-Aug-09	BETA	3.03E-02	3.35E-03	2.32E-03	1.00E-02	3.38E-03	pCi/m3
5PR(236888004) - AP	27-Aug-09	BETA	3.67E-02	3.79E-03	1.59E-03	1.00E-02	3.84E-03	pCi/m3
5PR(237111004) - AP	4-Sep-09	BETA	5.59E-02	3.87E-03	1.02E-03	1.00E-02	3.97E-03	pCi/m3
5PR(237457004) - AP	11-Sep-09	BETA	7.23E-02	7.74E-03	3.44E-03	1.00E-02	7.82E-03	pCi/m3
5PR(237862004) - AP	18-Sep-09	BETA	5.02E-02	5.69E-03	2.57E-03	1.00E-02	5.74E-03	pCi/m3
5PR(238141004) - AP	24-Sep-09	BETA	5.26E-02	6.37E-03	3.04E-03	1.00E-02	6.42E-03	pCi/m3
5PR(238866004) - AP	1-Oct-09	BETA	2.80E-02	5.03E-03	2.69E-03	1.00E-02	5.05E-03	pCi/m3
5PR(239603004) - AP	9-Oct-09	BETA	3.00E-02	4.69E-03	2.93E-03	1.00E-02	4.72E-03	pCi/m3
5PR(239659004) - AP	16-Oct-09	BETA	3.85E-02	4.82E-03	1.92E-03	1.00E-02	4.86E-03	pCi/m3
5PR(240234004) - AP	23-Oct-09	BETA	4.13E-02	6.21E-03	3.61E-03	1.00E-02	6.25E-03	pCi/m3
5PR(240679004) - AP	30-Oct-09	BETA	4.34E-02	3.64E-03	1.89E-03	1.00E-02	3.71E-03	pCi/m3
5PR(241208004) - AP	5-Nov-09	BETA	5.53E-02	4.71E-03	2.46E-03	1.00E-02	4.79E-03	pCi/m3

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5PR(241712004) - AP	12-Nov-09	BETA	4.41E-02	5.34E-03	3.14E-03	1.00E-02	5.39E-03	pCi/m3
5PR(242132004) - AP	19-Nov-09	BETA	6.06E-02	6.59E-03	2.36E-03	1.00E-02	6.66E-03	pCi/m3
5PR(242400004) - AP	26-Nov-09	BETA	5.11E-02	4.00E-03	2.03E-03	1.00E-02	4.08E-03	pCi/m3
5PR(243000004) - AP	4-Dec-09	BETA	4.57E-02	5.79E-03	2.63E-03	1.00E-02	5.84E-03	pCi/m3
5PR(243314004) - AP	11-Dec-09	BETA	5.99E-02	5.62E-03	1.87E-03	1.00E-02	5.71E-03	pCi/m3
5PR(243672004) - AP	18-Dec-09	BETA	6.98E-02	7.50E-03	2.82E-03	1.00E-02	7.59E-03	pCi/m3
5PR(244379004) - AP	25-Dec-09	BETA	5.78E-02	5.79E-03	2.18E-03	1.00E-02	5.87E-03	pCi/m3
5PR(228733002) - AP	13-Feb-09	Beryllium-7	1.12E-01	1.59E-02	6.98E-03		1.61E-02	pCi/m3
5PR(239870002) - AP	14-May-09	Beryllium-7	1.37E-01	4.09E-02	3.87E-02		4.10E-02	pCi/m3
5PR(239871002) - AP	13-Aug-09	Beryllium-7	1.59E-01	2.32E-02	1.05E-02		2.34E-02	pCi/m3
5PR(245504004) - AP	12-Nov-09	Beryllium-7	1.15E-01	1.73E-02	1.07E-02		1.75E-02	pCi/m3
5PR(228733002) - AP	13-Feb-09	Cesium-134	5.87E-05	2.49E-04	4.37E-04	5.00E-02	2.49E-04	pCi/m3
5PR(239870002) - AP	14-May-09	Cesium-134	1.72E-04	4.06E-04	7.37E-04	5.00E-02	4.06E-04	pCi/m3
5PR(239871002) - AP	13-Aug-09	Cesium-134	2.02E-04	4.47E-04	7.91E-04	5.00E-02	4.47E-04	pCi/m3
5PR(245504004) - AP	12-Nov-09	Cesium-134	3.93E-04	4.27E-04	8.10E-04	5.00E-02	4.27E-04	pCi/m3
5PR(228733002) - AP	13-Feb-09	Cesium-137	5.15E-05	2.53E-04	4.42E-04	6.00E-02	2.53E-04	pCi/m3
5PR(239870002) - AP	14-May-09	Cesium-137	3.50E-04	3.66E-04	6.70E-04	6.00E-02	3.66E-04	pCi/m3
5PR(239871002) - AP	13-Aug-09	Cesium-137	1.46E-04	3.07E-04	5.49E-04	6.00E-02	3.07E-04	pCi/m3
5PR(245504004) - AP	12-Nov-09	Cesium-137	1.97E-04	3.33E-04	6.10E-04	6.00E-02	3.33E-04	pCi/m3

8SP

AC

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
8SP(223769008) - AC	2-Jan-09	Iodine-131	1.51E-02	2.51E-02	4.49E-02	7.00E-02	2.51E-02	pCi/m3
8SP(223772008) - AC	9-Jan-09	Iodine-131	6.03E-04	1.53E-02	2.54E-02	7.00E-02	1.53E-02	pCi/m3
8SP(223773008) - AC	15-Jan-09	Iodine-131	-7.12E-04	1.12E-02	1.87E-02	7.00E-02	1.12E-02	pCi/m3
8SP(223716008) - AC	22-Jan-09	Iodine-131	3.38E-03	7.54E-03	1.40E-02	7.00E-02	7.54E-03	pCi/m3
8SP(223998008) - AC	29-Jan-09	Iodine-131	-1.92E-03	7.95E-03	1.32E-02	7.00E-02	7.95E-03	pCi/m3
8SP(224501008) - AC	5-Feb-09	Iodine-131	8.45E-04	7.84E-03	1.38E-02	7.00E-02	7.84E-03	pCi/m3
8SP(225206008) - AC	13-Feb-09	Iodine-131	-8.09E-03	2.61E-02	4.22E-02	7.00E-02	2.61E-02	pCi/m3
8SP(225207008) - AC	20-Feb-09	Iodine-131	4.65E-03	9.64E-03	1.72E-02	7.00E-02	9.65E-03	pCi/m3
8SP(225581008) - AC	26-Feb-09	Iodine-131	2.70E-04	1.07E-02	1.78E-02	7.00E-02	1.07E-02	pCi/m3
8SP(226027008) - AC	5-Mar-09	Iodine-131	1.19E-02	1.44E-02	2.74E-02	7.00E-02	1.44E-02	pCi/m3
8SP(226577008) - AC	12-Mar-09	Iodine-131	9.85E-03	1.50E-02	2.76E-02	7.00E-02	1.50E-02	pCi/m3
8SP(226991008) - AC	19-Mar-09	Iodine-131	-1.43E-03	9.64E-03	1.58E-02	7.00E-02	9.64E-03	pCi/m3
8SP(227208008) - AC	26-Mar-09	Iodine-131	5.11E-03	9.98E-03	1.75E-02	7.00E-02	9.98E-03	pCi/m3
8SP(227641008) - AC	2-Apr-09	Iodine-131	-3.13E-03	1.13E-02	1.82E-02	7.00E-02	1.13E-02	pCi/m3
8SP(228145008) - AC	9-Apr-09	Iodine-131	2.20E-03	1.02E-02	1.75E-02	7.00E-02	1.02E-02	pCi/m3
8SP(228451008) - AC	17-Apr-09	Iodine-131	-1.38E-03	9.36E-03	1.56E-02	7.00E-02	9.36E-03	pCi/m3
8SP(228795008) - AC	23-Apr-09	Iodine-131	4.01E-03	1.06E-02	1.90E-02	7.00E-02	1.06E-02	pCi/m3
8SP(229611008) - AC	30-Apr-09	Iodine-131	-6.39E-03	1.94E-02	3.16E-02	7.00E-02	1.94E-02	pCi/m3
8SP(229841008) - AC	7-May-09	Iodine-131	8.62E-03	1.16E-02	2.10E-02	7.00E-02	1.16E-02	pCi/m3
8SP(230590008) - AC	14-May-09	Iodine-131	1.03E-02	1.85E-02	3.40E-02	7.00E-02	1.85E-02	pCi/m3
8SP(230594008) - AC	21-May-09	Iodine-131	4.88E-03	1.23E-02	2.24E-02	7.00E-02	1.23E-02	pCi/m3
8SP(231128008) - AC	28-May-09	Iodine-131	6.12E-03	1.37E-02	2.47E-02	7.00E-02	1.37E-02	pCi/m3

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8SP(231469008) - AC	5-Jun-09	Iodine-131	-1.01E-02	1.21E-02	1.87E-02	7.00E-02	1.21E-02	pCi/m3
8SP(232150008) - AC	12-Jun-09	Iodine-131	-7.95E-03	1.43E-02	2.21E-02	7.00E-02	1.43E-02	pCi/m3
8SP(232595008) - AC	19-Jun-09	Iodine-131	-1.97E-03	2.03E-02	3.41E-02	7.00E-02	2.03E-02	pCi/m3
8SP(232878008) - AC	25-Jun-09	Iodine-131	5.32E-03	2.02E-02	3.51E-02	7.00E-02	2.02E-02	pCi/m3
8SP(233212008) - AC	2-Jul-09	Iodine-131	-1.98E-03	1.78E-02	2.99E-02	7.00E-02	1.78E-02	pCi/m3
8SP(234044008) - AC	10-Jul-09	Iodine-131	-1.32E-02	2.65E-02	4.30E-02	7.00E-02	2.65E-02	pCi/m3
8SP(234047006) - AC	16-Jul-09	Iodine-131	-7.82E-03	1.63E-02	2.56E-02	7.00E-02	1.63E-02	pCi/m3
8SP(234348006) - AC	23-Jul-09	Iodine-131	-3.20E-03	1.00E-02	1.63E-02	7.00E-02	1.00E-02	pCi/m3
8SP(235029006) - AC	30-Jul-09	Iodine-131	4.20E-03	1.46E-02	2.59E-02	7.00E-02	1.46E-02	pCi/m3
8SP(235300006) - AC	6-Aug-09	Iodine-131	1.61E-02	1.37E-02	2.65E-02	7.00E-02	1.37E-02	pCi/m3
8SP(235775006) - AC	13-Aug-09	Iodine-131	1.66E-04	1.61E-02	2.72E-02	7.00E-02	1.61E-02	pCi/m3
8SP(236207006) - AC	20-Aug-09	Iodine-131	-4.37E-03	1.32E-02	2.15E-02	7.00E-02	1.32E-02	pCi/m3
8SP(236888006) - AC	27-Aug-09	Iodine-131	3.77E-03	2.19E-02	3.74E-02	7.00E-02	2.19E-02	pCi/m3
8SP(237111006) - AC	4-Sep-09	Iodine-131	1.73E-03	1.40E-02	2.39E-02	7.00E-02	1.40E-02	pCi/m3
8SP(237457006) - AC	11-Sep-09	Iodine-131	-8.70E-03	1.64E-02	2.55E-02	7.00E-02	1.64E-02	pCi/m3
8SP(237862006) - AC	18-Sep-09	Iodine-131	3.71E-03	1.36E-02	2.36E-02	7.00E-02	1.36E-02	pCi/m3
8SP(238141006) - AC	24-Sep-09	Iodine-131	4.55E-03	1.30E-02	2.29E-02	7.00E-02	1.30E-02	pCi/m3
8SP(238866006) - AC	1-Oct-09	Iodine-131	-6.73E-03	1.81E-02	2.84E-02	7.00E-02	1.81E-02	pCi/m3
8SP(239603006) - AC	9-Oct-09	Iodine-131	-3.56E-02	3.09E-02	4.43E-02	7.00E-02	3.09E-02	pCi/m3
8SP(239659006) - AC	16-Oct-09	Iodine-131	-2.60E-03	1.04E-02	1.70E-02	7.00E-02	1.04E-02	pCi/m3
8SP(240234006) - AC	22-Oct-09	Iodine-131	2.07E-03	2.03E-02	3.52E-02	7.00E-02	2.03E-02	pCi/m3
8SP(240679006) - AC	29-Oct-09	Iodine-131	-1.08E-03	1.48E-02	2.49E-02	7.00E-02	1.48E-02	pCi/m3
8SP(241208006) - AC	5-Nov-09	Iodine-131	-3.83E-04	2.30E-02	3.79E-02	7.00E-02	2.30E-02	pCi/m3
8SP(241712006) - AC	12-Nov-09	Iodine-131	-6.98E-03	1.90E-02	2.97E-02	7.00E-02	1.90E-02	pCi/m3
8SP(242132006) - AC	19-Nov-09	Iodine-131	-1.67E-02	2.68E-02	4.07E-02	7.00E-02	2.68E-02	pCi/m3
8SP(242400006) - AC	26-Nov-09	Iodine-131	-1.02E-03	1.60E-02	2.71E-02	7.00E-02	1.60E-02	pCi/m3
8SP(243000006) - AC	3-Dec-09	Iodine-131	-8.97E-03	1.46E-02	2.33E-02	7.00E-02	1.46E-02	pCi/m3
8SP(243314006) - AC	11-Dec-09	Iodine-131	-8.96E-03	1.58E-02	2.47E-02	7.00E-02	1.58E-02	pCi/m3
8SP(243672006) - AC	18-Dec-09	Iodine-131	-7.03E-03	1.04E-02	1.43E-02	7.00E-02	1.04E-02	pCi/m3
8SP(244379005) - AC	25-Dec-09	Iodine-131	1.27E-02	2.08E-02	3.80E-02	7.00E-02	2.08E-02	pCi/m3

8SP

AP

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
8SP(223769003) - AP	2-Jan-09	BETA	6.97E-02	7.33E-03	1.92E-03	1.00E-02	7.42E-03	pCi/m3
8SP(223772003) - AP	9-Jan-09	BETA	6.60E-02	7.01E-03	1.94E-03	1.00E-02	7.09E-03	pCi/m3
8SP(223773003) - AP	15-Jan-09	BETA	5.70E-02	6.67E-03	3.09E-03	1.00E-02	6.73E-03	pCi/m3
8SP(223716003) - AP	22-Jan-09	BETA	7.04E-02	7.31E-03	2.71E-03	1.00E-02	7.40E-03	pCi/m3
8SP(223998003) - AP	29-Jan-09	BETA	6.88E-02	7.50E-03	2.71E-03	1.00E-02	7.53E-03	pCi/m3
8SP(224501003) - AP	5-Feb-09	BETA	5.87E-02	6.71E-03	2.13E-03	1.00E-02	6.78E-03	pCi/m3
8SP(225206003) - AP	13-Feb-09	BETA	5.13E-02	6.28E-03	2.04E-03	1.00E-02	6.33E-03	pCi/m3
8SP(225207003) - AP	20-Feb-09	BETA	5.58E-02	7.52E-03	3.94E-03	1.00E-02	7.57E-03	pCi/m3
8SP(225581003) - AP	26-Feb-09	BETA	5.40E-02	7.07E-03	4.19E-03	1.00E-02	7.12E-03	pCi/m3
8SP(226027003) - AP	5-Mar-09	BETA	5.31E-02	6.75E-03	2.75E-03	1.00E-02	6.77E-03	pCi/m3
8SP(226577003) - AP	12-Mar-09	BETA	6.36E-02	7.22E-03	2.44E-03	1.00E-02	7.29E-03	pCi/m3

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8SP(226991003) - AP	19-Mar-09	BETA	7.17E-02	8.03E-03	4.31E-03	1.00E-02	8.11E-03	pCi/m3
8SP(227208003) - AP	26-Mar-09	BETA	4.28E-02	6.42E-03	4.17E-03	1.00E-02	6.43E-03	pCi/m3
8SP(227641003) - AP	2-Apr-09	BETA	4.62E-02	6.61E-03	4.06E-03	1.00E-02	6.62E-03	pCi/m3
8SP(228145003) - AP	9-Apr-09	BETA	4.54E-02	6.24E-03	2.39E-03	1.00E-02	6.28E-03	pCi/m3
8SP(228145003) - AP	9-Apr-09	BETA	5.08E-02	7.00E-03	3.86E-03	1.00E-02	7.03E-03	pCi/m3
8SP(228451003) - AP	17-Apr-09	BETA	5.73E-02	7.12E-03	3.61E-03	1.00E-02	7.18E-03	pCi/m3
8SP(228451003) - AP	17-Apr-09	BETA	5.78E-02	7.09E-03	3.78E-03	1.00E-02	7.15E-03	pCi/m3
8SP(228795003) - AP	23-Apr-09	BETA	3.99E-02	6.24E-03	3.66E-03	1.00E-02	6.27E-03	pCi/m3
8SP(229611003) - AP	30-Apr-09	BETA	4.55E-02	6.31E-03	2.90E-03	1.00E-02	6.35E-03	pCi/m3
8SP(229611003) - AP	30-Apr-09	BETA	3.71E-02	5.98E-03	3.13E-03	1.00E-02	5.99E-03	pCi/m3
8SP(229841003) - AP	7-May-09	BETA	4.52E-02	6.73E-03	4.54E-03	1.00E-02	6.77E-03	pCi/m3
8SP(230590003) - AP	14-May-09	BETA	4.31E-02	4.40E-03	2.30E-03	1.00E-02	4.45E-03	pCi/m3
8SP(230594003) - AP	21-May-09	BETA	5.51E-02	5.03E-03	2.16E-03	1.00E-02	5.11E-03	pCi/m3
8SP(231128003) - AP	28-May-09	BETA	3.63E-02	5.63E-03	2.33E-03	1.00E-02	5.66E-03	pCi/m3
8SP(231469003) - AP	5-Jun-09	BETA	4.73E-02	4.71E-03	2.59E-03	1.00E-02	4.76E-03	pCi/m3
8SP(232150003) - AP	12-Jun-09	BETA	3.50E-02	3.94E-03	1.81E-03	1.00E-02	3.98E-03	pCi/m3
8SP(232595003) - AP	19-Jun-09	BETA	5.03E-02	4.77E-03	2.32E-03	1.00E-02	4.84E-03	pCi/m3
8SP(232878003) - AP	25-Jun-09	BETA	5.64E-02	7.14E-03	2.56E-03	1.00E-02	7.19E-03	pCi/m3
8SP(233212003) - AP	2-Jul-09	BETA	3.07E-02	3.75E-03	1.57E-03	1.00E-02	3.76E-03	pCi/m3
8SP(234044003) - AP	10-Jul-09	BETA	3.76E-02	4.43E-03	3.13E-03	1.00E-02	4.44E-03	pCi/m3
8SP(234047001) - AP	16-Jul-09	BETA	3.96E-02	4.53E-03	3.16E-03	1.00E-02	4.57E-03	pCi/m3
8SP(234348001) - AP	23-Jul-09	BETA	5.21E-02	5.02E-03	3.33E-03	1.00E-02	5.04E-03	pCi/m3
8SP(235029001) - AP	30-Jul-09	BETA	4.53E-02	4.46E-03	1.69E-03	1.00E-02	4.49E-03	pCi/m3
8SP(235300001) - AP	6-Aug-09	BETA	6.31E-02	5.21E-03	1.47E-03	1.00E-02	5.26E-03	pCi/m3
8SP(235775001) - AP	13-Aug-09	BETA	6.13E-02	5.38E-03	2.16E-03	1.00E-02	5.39E-03	pCi/m3
8SP(236207001) - AP	20-Aug-09	BETA	3.88E-02	4.56E-03	3.66E-03	1.00E-02	4.57E-03	pCi/m3
8SP(236888001) - AP	27-Aug-09	BETA	3.64E-02	4.17E-03	2.71E-03	1.00E-02	4.20E-03	pCi/m3
8SP(237111001) - AP	4-Sep-09	BETA	6.44E-02	5.07E-03	2.83E-03	1.00E-02	5.18E-03	pCi/m3
8SP(237457001) - AP	11-Sep-09	BETA	8.13E-02	8.43E-03	3.03E-03	1.00E-02	8.53E-03	pCi/m3
8SP(237862001) - AP	18-Sep-09	BETA	4.57E-02	6.19E-03	2.83E-03	1.00E-02	6.23E-03	pCi/m3
8SP(238141001) - AP	24-Sep-09	BETA	5.21E-02	6.50E-03	2.76E-03	1.00E-02	6.56E-03	pCi/m3
8SP(238866001) - AP	1-Oct-09	BETA	2.26E-02	4.20E-03	2.28E-03	1.00E-02	4.21E-03	pCi/m3
8SP(239603001) - AP	9-Oct-09	BETA	3.16E-02	4.66E-03	2.13E-03	1.00E-02	4.69E-03	pCi/m3
8SP(239659001) - AP	16-Oct-09	BETA	3.66E-02	5.79E-03	3.62E-03	1.00E-02	5.82E-03	pCi/m3
8SP(240234001) - AP	22-Oct-09	BETA	3.74E-02	5.43E-03	2.40E-03	1.00E-02	5.46E-03	pCi/m3
8SP(240679001) - AP	29-Oct-09	BETA	4.58E-02	4.14E-03	2.05E-03	1.00E-02	4.20E-03	pCi/m3
8SP(241208001) - AP	5-Nov-09	BETA	4.74E-02	4.21E-03	2.05E-03	1.00E-02	4.27E-03	pCi/m3
8SP(241712001) - AP	12-Nov-09	BETA	4.57E-02	6.20E-03	3.13E-03	1.00E-02	6.25E-03	pCi/m3
8SP(242132001) - AP	19-Nov-09	BETA	5.72E-02	6.62E-03	2.71E-03	1.00E-02	6.68E-03	pCi/m3
8SP(242400001) - AP	26-Nov-09	BETA	5.30E-02	4.44E-03	2.03E-03	1.00E-02	4.52E-03	pCi/m3
8SP(243000001) - AP	3-Dec-09	BETA	4.38E-02	5.81E-03	3.09E-03	1.00E-02	5.85E-03	pCi/m3
8SP(243314001) - AP	11-Dec-09	BETA	6.20E-02	6.04E-03	1.91E-03	1.00E-02	6.12E-03	pCi/m3
8SP(243672001) - AP	18-Dec-09	BETA	5.75E-02	5.96E-03	2.17E-03	1.00E-02	6.03E-03	pCi/m3
8SP(244379001) - AP	25-Dec-09	BETA	6.07E-02	6.02E-03	2.65E-03	1.00E-02	6.10E-03	pCi/m3
8SP(228733003) - AP	13-Feb-09	Beryllium-7	1.15E-01	1.75E-02	8.77E-03		1.76E-02	pCi/m3

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8SP(239870003) - AP	14-May-09	Beryllium-7	2.34E-01	6.06E-02	4.34E-02		6.08E-02	pCi/m3
8SP(239871003) - AP	13-Aug-09	Beryllium-7	1.44E-01	2.11E-02	1.10E-02		2.12E-02	pCi/m3
8SP(245504001) - AP	12-Nov-09	Beryllium-7	1.27E-01	2.06E-02	1.07E-02		2.07E-02	pCi/m3
8SP(228733003) - AP	13-Feb-09	Cesium-134	-4.21E-05	3.40E-04	5.59E-04	5.00E-02	3.40E-04	pCi/m3
8SP(239870003) - AP	14-May-09	Cesium-134	-3.35E-04	7.14E-04	1.12E-03	5.00E-02	7.14E-04	pCi/m3
8SP(239871003) - AP	13-Aug-09	Cesium-134	1.76E-05	3.98E-04	6.82E-04	5.00E-02	3.98E-04	pCi/m3
8SP(245504001) - AP	12-Nov-09	Cesium-134	-8.15E-05	4.02E-04	6.36E-04	5.00E-02	4.02E-04	pCi/m3
8SP(228733003) - AP	13-Feb-09	Cesium-137	-9.35E-05	3.63E-04	5.67E-04	6.00E-02	3.63E-04	pCi/m3
8SP(239870003) - AP	14-May-09	Cesium-137	4.15E-04	4.88E-04	9.14E-04	6.00E-02	4.88E-04	pCi/m3
8SP(239871003) - AP	13-Aug-09	Cesium-137	-2.89E-05	2.84E-04	4.82E-04	6.00E-02	2.84E-04	pCi/m3
8SP(245504001) - AP	12-Nov-09	Cesium-137	1.71E-04	3.55E-04	6.23E-04	6.00E-02	3.55E-04	pCi/m3

9TP

AC

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
9TP(223769009) - AC	2-Jan-09	Iodine-131	-6.00E-03	1.96E-02	3.21E-02	7.00E-02	1.96E-02	pCi/m3
9TP(223772009) - AC	9-Jan-09	Iodine-131	-7.97E-03	9.71E-03	1.44E-02	7.00E-02	9.71E-03	pCi/m3
9TP(223773009) - AC	15-Jan-09	Iodine-131	5.53E-03	1.06E-02	1.95E-02	7.00E-02	1.06E-02	pCi/m3
9TP(223716009) - AC	22-Jan-09	Iodine-131	-2.77E-03	9.68E-03	1.53E-02	7.00E-02	9.68E-03	pCi/m3
9TP(223998009) - AC	29-Jan-09	Iodine-131	2.05E-03	8.80E-03	1.51E-02	7.00E-02	8.80E-03	pCi/m3
9TP(224501009) - AC	5-Feb-09	Iodine-131	-6.39E-03	8.36E-03	1.21E-02	7.00E-02	8.36E-03	pCi/m3
9TP(225206009) - AC	13-Feb-09	Iodine-131	-7.36E-04	1.18E-02	2.02E-02	7.00E-02	1.18E-02	pCi/m3
9TP(225207009) - AC	20-Feb-09	Iodine-131	-5.18E-04	1.27E-02	2.08E-02	7.00E-02	1.27E-02	pCi/m3
9TP(225581009) - AC	26-Feb-09	Iodine-131	1.04E-04	8.70E-03	1.50E-02	7.00E-02	8.70E-03	pCi/m3
9TP(226027009) - AC	5-Mar-09	Iodine-131	-2.59E-03	1.02E-02	1.62E-02	7.00E-02	1.02E-02	pCi/m3
9TP(226577009) - AC	12-Mar-09	Iodine-131	4.44E-03	1.08E-02	1.92E-02	7.00E-02	1.08E-02	pCi/m3
9TP(226991009) - AC	19-Mar-09	Iodine-131	1.58E-03	7.36E-03	1.27E-02	7.00E-02	7.36E-03	pCi/m3
9TP(227208009) - AC	26-Mar-09	Iodine-131	9.54E-03	9.12E-03	1.30E-02	7.00E-02	9.13E-03	pCi/m3
9TP(227641009) - AC	2-Apr-09	Iodine-131	8.06E-03	9.15E-03	1.72E-02	7.00E-02	9.15E-03	pCi/m3
9TP(228145009) - AC	9-Apr-09	Iodine-131	-1.38E-04	1.08E-02	1.80E-02	7.00E-02	1.08E-02	pCi/m3
9TP(228451009) - AC	17-Apr-09	Iodine-131	-3.13E-03	1.17E-02	1.91E-02	7.00E-02	1.17E-02	pCi/m3
9TP(228795009) - AC	23-Apr-09	Iodine-131	6.57E-04	8.86E-03	1.50E-02	7.00E-02	8.86E-03	pCi/m3
9TP(229611009) - AC	30-Apr-09	Iodine-131	-7.34E-03	2.03E-02	3.29E-02	7.00E-02	2.03E-02	pCi/m3
9TP(229841009) - AC	7-May-09	Iodine-131	3.14E-03	9.29E-03	1.67E-02	7.00E-02	9.29E-03	pCi/m3
9TP(230590009) - AC	14-May-09	Iodine-131	4.24E-03	1.55E-02	2.74E-02	7.00E-02	1.55E-02	pCi/m3
9TP(230594009) - AC	21-May-09	Iodine-131	-5.90E-03	9.69E-03	1.47E-02	7.00E-02	9.70E-03	pCi/m3
9TP(231128009) - AC	28-May-09	Iodine-131	2.87E-03	9.56E-03	1.69E-02	7.00E-02	9.56E-03	pCi/m3
9TP(231469009) - AC	5-Jun-09	Iodine-131	-1.19E-02	9.80E-03	1.34E-02	7.00E-02	9.80E-03	pCi/m3
9TP(232150009) - AC	12-Jun-09	Iodine-131	1.26E-02	1.61E-02	3.00E-02	7.00E-02	1.61E-02	pCi/m3
9TP(232595009) - AC	19-Jun-09	Iodine-131	1.32E-03	2.99E-02	5.09E-02	7.00E-02	2.99E-02	pCi/m3
9TP(232878009) - AC	25-Jun-09	Iodine-131	4.49E-03	1.26E-02	2.25E-02	7.00E-02	1.26E-02	pCi/m3
9TP(233212009) - AC	2-Jul-09	Iodine-131	-5.11E-03	8.85E-03	1.37E-02	7.00E-02	8.85E-03	pCi/m3
9TP(234044009) - AC	10-Jul-09	Iodine-131	6.36E-03	1.93E-02	3.43E-02	7.00E-02	1.93E-02	pCi/m3
9TP(234047007) - AC	16-Jul-09	Iodine-131	-3.10E-03	1.08E-02	1.75E-02	7.00E-02	1.08E-02	pCi/m3
9TP(234348007) - AC	23-Jul-09	Iodine-131	-5.14E-03	8.37E-03	1.31E-02	7.00E-02	8.37E-03	pCi/m3

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9TP(235029007) - AC	30-Jul-09	Iodine-131	1.37E-02	1.58E-02	3.02E-02	7.00E-02	1.58E-02	pCi/m3
9TP(235300007) - AC	6-Aug-09	Iodine-131	4.34E-03	1.26E-02	2.19E-02	7.00E-02	1.26E-02	pCi/m3
9TP(235775007) - AC	13-Aug-09	Iodine-131	9.45E-03	9.19E-03	1.74E-02	7.00E-02	9.19E-03	pCi/m3
9TP(236207007) - AC	20-Aug-09	Iodine-131	5.41E-03	8.75E-03	1.62E-02	7.00E-02	8.75E-03	pCi/m3
9TP(236888007) - AC	27-Aug-09	Iodine-131	-4.17E-03	1.57E-02	2.50E-02	7.00E-02	1.57E-02	pCi/m3
9TP(237111007) - AC	4-Sep-09	Iodine-131	-2.70E-02	1.83E-02	2.51E-02	7.00E-02	1.83E-02	pCi/m3
9TP(237457007) - AC	11-Sep-09	Iodine-131	-8.24E-03	1.16E-02	1.75E-02	7.00E-02	1.16E-02	pCi/m3
9TP(237862007) - AC	18-Sep-09	Iodine-131	1.62E-03	1.14E-02	1.96E-02	7.00E-02	1.14E-02	pCi/m3
9TP(238141007) - AC	24-Sep-09	Iodine-131	6.47E-03	8.24E-03	1.56E-02	7.00E-02	8.24E-03	pCi/m3
9TP(238866007) - AC	1-Oct-09	Iodine-131	8.83E-03	1.16E-02	2.19E-02	7.00E-02	1.16E-02	pCi/m3
9TP(239603007) - AC	9-Oct-09	Iodine-131	1.12E-03	1.54E-02	2.60E-02	7.00E-02	1.54E-02	pCi/m3
9TP(239659007) - AC	16-Oct-09	Iodine-131	-1.43E-03	1.01E-02	1.67E-02	7.00E-02	1.01E-02	pCi/m3
9TP(240234007) - AC	22-Oct-09	Iodine-131	5.50E-03	1.52E-02	2.76E-02	7.00E-02	1.52E-02	pCi/m3
9TP(240679007) - AC	30-Oct-09	Iodine-131	1.26E-02	1.25E-02	2.41E-02	7.00E-02	1.25E-02	pCi/m3
9TP(241208007) - AC	5-Nov-09	Iodine-131	1.18E-02	1.54E-02	2.85E-02	7.00E-02	1.54E-02	pCi/m3
9TP(241712007) - AC	12-Nov-09	Iodine-131	-6.18E-03	1.02E-02	1.53E-02	7.00E-02	1.02E-02	pCi/m3
9TP(242132007) - AC	19-Nov-09	Iodine-131	-1.95E-02	2.04E-02	2.98E-02	7.00E-02	2.05E-02	pCi/m3
9TP(242400007) - AC	26-Nov-09	Iodine-131	8.70E-03	1.18E-02	2.23E-02	7.00E-02	1.18E-02	pCi/m3
9TP(243000007) - AC	3-Dec-09	Iodine-131	2.47E-03	1.97E-02	3.39E-02	7.00E-02	1.97E-02	pCi/m3
9TP(243314007) - AC	11-Dec-09	Iodine-131	-6.37E-03	9.96E-03	1.59E-02	7.00E-02	9.96E-03	pCi/m3
9TP(243672007) - AC	18-Dec-09	Iodine-131	-4.63E-03	2.12E-02	3.40E-02	7.00E-02	2.12E-02	pCi/m3
9TP(244379006) - AC	25-Dec-09	Iodine-131	7.29E-03	2.42E-02	4.30E-02	7.00E-02	2.42E-02	pCi/m3

9TP

AP

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
9TP(223769004) - AP	2-Jan-09	BETA	6.93E-02	7.03E-03	3.71E-03	1.00E-02	7.12E-03	pCi/m3
9TP(223772004) - AP	9-Jan-09	BETA	6.11E-02	5.99E-03	1.74E-03	1.00E-02	6.07E-03	pCi/m3
9TP(223773004) - AP	15-Jan-09	BETA	4.97E-02	5.86E-03	3.24E-03	1.00E-02	5.92E-03	pCi/m3
9TP(223716004) - AP	22-Jan-09	BETA	7.04E-02	6.59E-03	1.57E-03	1.00E-02	6.68E-03	pCi/m3
9TP(223998004) - AP	29-Jan-09	BETA	6.54E-02	6.67E-03	1.88E-03	1.00E-02	6.69E-03	pCi/m3
9TP(224501004) - AP	5-Feb-09	BETA	5.91E-02	6.18E-03	2.53E-03	1.00E-02	6.25E-03	pCi/m3
9TP(225206004) - AP	13-Feb-09	BETA	5.28E-02	5.55E-03	2.29E-03	1.00E-02	5.62E-03	pCi/m3
9TP(225207004) - AP	20-Feb-09	BETA	6.24E-02	6.79E-03	1.98E-03	1.00E-02	6.86E-03	pCi/m3
9TP(225581004) - AP	26-Feb-09	BETA	5.36E-02	5.99E-03	2.77E-03	1.00E-02	6.05E-03	pCi/m3
9TP(226027004) - AP	5-Mar-09	BETA	5.83E-02	6.31E-03	2.34E-03	1.00E-02	6.33E-03	pCi/m3
9TP(226577004) - AP	12-Mar-09	BETA	6.16E-02	6.48E-03	2.86E-03	1.00E-02	6.55E-03	pCi/m3
9TP(226991004) - AP	19-Mar-09	BETA	5.94E-02	6.46E-03	3.56E-03	1.00E-02	6.52E-03	pCi/m3
9TP(227208004) - AP	26-Mar-09	BETA	4.01E-02	5.42E-03	3.32E-03	1.00E-02	5.46E-03	pCi/m3
9TP(227641004) - AP	2-Apr-09	BETA	4.26E-02	5.64E-03	3.04E-03	1.00E-02	5.68E-03	pCi/m3
9TP(228145004) - AP	9-Apr-09	BETA	5.06E-02	5.80E-03	2.38E-03	1.00E-02	5.86E-03	pCi/m3
9TP(228145004) - AP	9-Apr-09	BETA	4.56E-02	5.73E-03	2.50E-03	1.00E-02	5.74E-03	pCi/m3
9TP(228451004) - AP	17-Apr-09	BETA	4.85E-02	5.61E-03	1.70E-03	1.00E-02	5.67E-03	pCi/m3
9TP(228451004) - AP	17-Apr-09	BETA	4.97E-02	5.94E-03	3.30E-03	1.00E-02	5.99E-03	pCi/m3
9TP(228795004) - AP	23-Apr-09	BETA	4.14E-02	5.46E-03	2.24E-03	1.00E-02	5.50E-03	pCi/m3

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9TP(229611004) - AP	30-Apr-09	BETA	3.75E-02	5.41E-03	3.84E-03	1.00E-02	5.44E-03	pCi/m3
9TP(229611004) - AP	30-Apr-09	BETA	4.19E-02	5.87E-03	4.34E-03	1.00E-02	5.91E-03	pCi/m3
9TP(229841004) - AP	7-May-09	BETA	4.23E-02	5.44E-03	2.26E-03	1.00E-02	5.48E-03	pCi/m3
9TP(230590004) - AP	14-May-09	BETA	3.78E-02	3.56E-03	1.31E-03	1.00E-02	3.61E-03	pCi/m3
9TP(230594004) - AP	21-May-09	BETA	4.95E-02	4.43E-03	2.99E-03	1.00E-02	4.50E-03	pCi/m3
9TP(231128004) - AP	28-May-09	BETA	3.23E-02	5.01E-03	3.59E-03	1.00E-02	5.03E-03	pCi/m3
9TP(231469004) - AP	5-Jun-09	BETA	4.68E-02	4.25E-03	2.69E-03	1.00E-02	4.27E-03	pCi/m3
9TP(232150004) - AP	12-Jun-09	BETA	3.21E-02	3.44E-03	2.01E-03	1.00E-02	3.48E-03	pCi/m3
9TP(232595004) - AP	19-Jun-09	BETA	4.92E-02	5.70E-03	4.64E-03	1.00E-02	5.76E-03	pCi/m3
9TP(232878004) - AP	25-Jun-09	BETA	5.55E-02	6.35E-03	2.58E-03	1.00E-02	6.41E-03	pCi/m3
9TP(233212004) - AP	2-Jul-09	BETA	2.76E-02	3.10E-03	1.39E-03	1.00E-02	3.13E-03	pCi/m3
9TP(234044004) - AP	10-Jul-09	BETA	4.04E-02	4.03E-03	2.84E-03	1.00E-02	4.04E-03	pCi/m3
9TP(234047002) - AP	16-Jul-09	BETA	3.45E-02	3.85E-03	2.40E-03	1.00E-02	3.89E-03	pCi/m3
9TP(234348002) - AP	23-Jul-09	BETA	4.66E-02	3.93E-03	2.16E-03	1.00E-02	4.00E-03	pCi/m3
9TP(235029002) - AP	30-Jul-09	BETA	3.85E-02	3.71E-03	1.37E-03	1.00E-02	3.72E-03	pCi/m3
9TP(235300002) - AP	6-Aug-09	BETA	5.50E-02	4.42E-03	2.06E-03	1.00E-02	4.51E-03	pCi/m3
9TP(235775002) - AP	13-Aug-09	BETA	6.15E-02	4.79E-03	2.63E-03	1.00E-02	4.81E-03	pCi/m3
9TP(236207002) - AP	20-Aug-09	BETA	3.45E-02	3.80E-03	2.51E-03	1.00E-02	3.84E-03	pCi/m3
9TP(236888002) - AP	27-Aug-09	BETA	3.43E-02	3.53E-03	2.07E-03	1.00E-02	3.57E-03	pCi/m3
9TP(237111002) - AP	4-Sep-09	BETA	6.40E-02	4.59E-03	2.77E-03	1.00E-02	4.70E-03	pCi/m3
9TP(237457002) - AP	11-Sep-09	BETA	7.43E-02	7.28E-03	2.90E-03	1.00E-02	7.38E-03	pCi/m3
9TP(237862002) - AP	18-Sep-09	BETA	4.27E-02	5.61E-03	3.79E-03	1.00E-02	5.66E-03	pCi/m3
9TP(238141002) - AP	24-Sep-09	BETA	4.90E-02	5.76E-03	3.59E-03	1.00E-02	5.82E-03	pCi/m3
9TP(238866002) - AP	1-Oct-09	BETA	2.11E-02	3.73E-03	2.34E-03	1.00E-02	3.74E-03	pCi/m3
9TP(239603002) - AP	9-Oct-09	BETA	2.96E-02	4.26E-03	2.59E-03	1.00E-02	4.28E-03	pCi/m3
9TP(239659002) - AP	16-Oct-09	BETA	3.09E-02	4.92E-03	3.51E-03	1.00E-02	4.95E-03	pCi/m3
9TP(240234002) - AP	22-Oct-09	BETA	3.69E-02	5.02E-03	3.25E-03	1.00E-02	5.05E-03	pCi/m3
9TP(240679002) - AP	30-Oct-09	BETA	4.30E-02	3.60E-03	1.89E-03	1.00E-02	3.67E-03	pCi/m3
9TP(241208002) - AP	5-Nov-09	BETA	5.18E-02	4.10E-03	2.06E-03	1.00E-02	4.18E-03	pCi/m3
9TP(241712002) - AP	12-Nov-09	BETA	3.89E-02	5.01E-03	3.18E-03	1.00E-02	5.05E-03	pCi/m3
9TP(242132002) - AP	19-Nov-09	BETA	5.14E-02	5.64E-03	2.61E-03	1.00E-02	5.70E-03	pCi/m3
9TP(242400002) - AP	26-Nov-09	BETA	5.00E-02	3.88E-03	1.88E-03	1.00E-02	3.96E-03	pCi/m3
9TP(243000002) - AP	3-Dec-09	BETA	3.78E-02	4.76E-03	1.98E-03	1.00E-02	4.79E-03	pCi/m3
9TP(243314002) - AP	11-Dec-09	BETA	5.66E-02	5.85E-03	2.76E-03	1.00E-02	5.92E-03	pCi/m3
9TP(243672002) - AP	18-Dec-09	BETA	5.75E-02	5.89E-03	2.63E-03	1.00E-02	5.96E-03	pCi/m3
9TP(244379002) - AP	25-Dec-09	BETA	5.44E-02	5.64E-03	2.16E-03	1.00E-02	5.71E-03	pCi/m3
9TP(228733004) - AP	13-Feb-09	Beryllium-7	1.18E-01	1.78E-02	1.02E-02		1.79E-02	pCi/m3
9TP(239870004) - AP	14-May-09	Beryllium-7	1.50E-01	4.88E-02	4.02E-02		4.89E-02	pCi/m3
9TP(239871004) - AP	13-Aug-09	Beryllium-7	1.46E-01	2.05E-02	1.01E-02		2.07E-02	pCi/m3
9TP(245504002) - AP	12-Nov-09	Beryllium-7	1.07E-01	1.59E-02	9.11E-03		1.60E-02	pCi/m3
9TP(228733004) - AP	13-Feb-09	Cesium-134	-5.21E-05	3.66E-04	6.10E-04	5.00E-02	3.66E-04	pCi/m3
9TP(239870004) - AP	14-May-09	Cesium-134	1.29E-04	5.38E-04	9.52E-04	5.00E-02	5.38E-04	pCi/m3
9TP(239871004) - AR	13-Aug-09	Cesium-134	-1.31E-04	3.85E-04	5.96E-04	5.00E-02	3.85E-04	pCi/m3
9TP(245504002) - AP	12-Nov-09	Cesium-134	1.36E-05	3.07E-04	5.32E-04	5.00E-02	3.07E-04	pCi/m3
9TP(228733004) - AP	13-Feb-09	Cesium-137	-8.94E-05	3.03E-04	4.77E-04	6.00E-02	3.03E-04	pCi/m3

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9TP(239870004) - AP	14-May-09	Cesium-137	4.58E-05	4.01E-04	6.73E-04	6.00E-02	4.01E-04	pCi/m3
9TP(239871004) - AP	13-Aug-09	Cesium-137	-1.20E-04	3.18E-04	5.00E-04	6.00E-02	3.18E-04	pCi/m3
9TP(245504002) - AP	12-Nov-09	Cesium-137	5.99E-06	2.68E-04	4.44E-04	6.00E-02	2.68E-04	pCi/m3

Apples
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Apples(237882003) - VG	22-Sep-09	Cesium-134	-2.47E+00	4.21E+00	6.72E+00	6.00E+01	4.21E+00	pCi/kg
Apples(237882003) - VG	22-Sep-09	Cesium-137	7.99E-02	3.44E+00	5.85E+00	8.00E+01	3.44E+00	pCi/kg
Apples(237882003) - VG	22-Sep-09	Iodine-131	2.52E+00	5.50E+00	9.40E+00	6.00E+01	5.50E+00	pCi/kg
Apples(237882003) - VG	22-Sep-09	Potassium-40	1.25E+03	1.66E+02	6.36E+01		1.66E+02	pCi/kg

Blueberries
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Blueberries(233658004) - VG	9-Jul-09	Cesium-134	-6.42E-02	2.37E+00	3.96E+00	6.00E+01	2.37E+00	pCi/kg
Blueberries(233658004) - VG	9-Jul-09	Cesium-137	1.49E+00	1.95E+00	3.44E+00	8.00E+01	1.95E+00	pCi/kg
Blueberries(233658004) - VG	9-Jul-09	Iodine-131	-1.45E+00	4.68E+00	7.80E+00	6.00E+01	4.68E+00	pCi/kg

Broadleaf Vegetation BV11
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV11(234756001) - VG	28-Jul-09	Beryllium-7	5.42E+02	1.43E+02	1.34E+02		1.43E+02	pCi/kg
Broadleaf Vegetation BV11(236060001) - VG	24-Aug-09	Beryllium-7	3.24E+03	3.21E+02	1.42E+02		3.21E+02	pCi/kg
Broadleaf Vegetation BV11(237886001) - VG	21-Sep-09	Beryllium-7	5.21E+03	3.99E+02	9.64E+01		3.99E+02	pCi/kg
Broadleaf Vegetation BV11(234756001) - VG	28-Jul-09	Cesium-134	-5.48E+00	1.16E+01	1.87E+01	6.00E+01	1.16E+01	pCi/kg
Broadleaf Vegetation BV11(236060001) - VG	24-Aug-09	Cesium-134	9.98E+00	1.21E+01	2.16E+01	6.00E+01	1.21E+01	pCi/kg
Broadleaf Vegetation BV11(237886001) - VG	21-Sep-09	Cesium-134	-6.69E+00	8.76E+00	1.42E+01	6.00E+01	8.76E+00	pCi/kg
Broadleaf Vegetation BV11(234756001) - VG	28-Jul-09	Cesium-137	1.77E+01	1.65E+01	1.50E+01	8.00E+01	1.65E+01	pCi/kg
Broadleaf Vegetation BV11(236060001) - VG	24-Aug-09	Cesium-137	3.04E+01	1.68E+01	1.84E+01	8.00E+01	1.68E+01	pCi/kg
Broadleaf Vegetation BV11(237886001) - VG	21-Sep-09	Cesium-137	1.04E+02	1.66E+01	1.32E+01	8.00E+01	1.66E+01	pCi/kg
Broadleaf Vegetation BV11(234756001) - VG	28-Jul-09	Iodine-131	6.62E+00	1.87E+01	3.21E+01	6.00E+01	1.87E+01	pCi/kg
Broadleaf Vegetation BV11(236060001) - VG	24-Aug-09	Iodine-131	-1.63E+01	1.42E+01	2.23E+01	6.00E+01	1.42E+01	pCi/kg
Broadleaf Vegetation BV11(237886001) - VG	21-Sep-09	Iodine-131	9.65E+00	1.45E+01	2.54E+01	6.00E+01	1.45E+01	pCi/kg
Broadleaf Vegetation BV11(234756001) - VG	28-Jul-09	Potassium-40	2.30E+03	3.51E+02	1.35E+02		3.51E+02	pCi/kg
Broadleaf Vegetation BV11(236060001) - VG	24-Aug-09	Potassium-40	2.58E+03	4.29E+02	1.84E+02		4.29E+02	pCi/kg
Broadleaf Vegetation BV11(237886001) - VG	21-Sep-09	Potassium-40	2.00E+03	2.81E+02	9.42E+01		2.81E+02	pCi/kg

Broadleaf Vegetation BV11,12,13,21,22,23
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV11,12,13,21,22,23(232223001) - VG	16-Jun-09	Beryllium-7	4.33E+02	1.04E+02	7.63E+01		1.04E+02	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(234479001) - VG	28-Jul-09	Beryllium-7	1.97E+03	3.15E+02	1.87E+02		3.15E+02	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(230862001) - VG	29-May-09	Cesium-134	7.73E-01	6.96E+00	1.21E+01	6.00E+01	6.96E+00	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(232223001) - VG	16-Jun-09	Cesium-134	2.60E+00	6.70E+00	1.13E+01	6.00E+01	6.70E+00	pCi/kg

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Broadleaf Vegetation BV11,12,13,21,22,23(234479001) - VG	28-Jul-09	Cesium-134	-1.05E+00	1.57E+01	2.56E+01	6.00E+01	1.57E+01	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(230862001) - VG	29-May-09	Cesium-137	5.59E-02	6.59E+00	1.09E+01	8.00E+01	6.59E+00	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(232223001) - VG	16-Jun-09	Cesium-137	2.87E+01	8.52E+00	9.29E+00	8.00E+01	8.52E+00	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(234479001) - VG	28-Jul-09	Cesium-137	9.20E+01	3.09E+01	2.14E+01	8.00E+01	3.09E+01	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(230862001) - VG	29-May-09	Iodine-131	2.52E+00	9.84E+00	1.72E+01	6.00E+01	9.84E+00	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(232223001) - VG	16-Jun-09	Iodine-131	-5.19E-01	1.05E+01	1.77E+01	6.00E+01	1.05E+01	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(234479001) - VG	28-Jul-09	Iodine-131	-3.00E+01	2.29E+01	3.64E+01	6.00E+01	2.29E+01	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(230862001) - VG	29-May-09	Potassium-40	3.12E+03	3.19E+02	1.01E+02		3.19E+02	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(232223001) - VG	16-Jun-09	Potassium-40	2.44E+03	2.74E+02	9.88E+01		2.74E+02	pCi/kg
Broadleaf Vegetation BV11,12,13,21,22,23(234479001) - VG	28-Jul-09	Potassium-40	1.93E+03	3.71E+02	2.72E+02		3.71E+02	pCi/kg

Broadleaf Vegetation BV12
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV12(234756002) - VG	28-Jul-09	Beryllium-7	1.56E+03	1.95E+02	1.23E+02		1.95E+02	pCi/kg
Broadleaf Vegetation BV12(236060002) - VG	24-Aug-09	Beryllium-7	4.64E+03	4.89E+02	1.50E+02		4.89E+02	pCi/kg
Broadleaf Vegetation BV12(237886002) - VG	21-Sep-09	Beryllium-7	1.39E+03	1.46E+02	7.26E+01		1.46E+02	pCi/kg
Broadleaf Vegetation BV12(234756002) - VG	28-Jul-09	Cesium-134	7.29E+00	9.80E+00	1.63E+01	6.00E+01	9.80E+00	pCi/kg
Broadleaf Vegetation BV12(236060002) - VG	24-Aug-09	Cesium-134	2.65E+00	1.71E+01	2.34E+01	6.00E+01	1.71E+01	pCi/kg
Broadleaf Vegetation BV12(237886002) - VG	21-Sep-09	Cesium-134	6.17E+00	6.96E+00	1.27E+01	6.00E+01	6.96E+00	pCi/kg
Broadleaf Vegetation BV12(234756002) - VG	28-Jul-09	Cesium-137	3.47E+01	2.03E+01	1.29E+01	8.00E+01	2.03E+01	pCi/kg
Broadleaf Vegetation BV12(236060002) - VG	24-Aug-09	Cesium-137	2.80E+01	2.18E+01	2.00E+01	8.00E+01	2.18E+01	pCi/kg
Broadleaf Vegetation BV12(237886002) - VG	21-Sep-09	Cesium-137	1.83E+01	8.36E+00	9.42E+00	8.00E+01	8.36E+00	pCi/kg
Broadleaf Vegetation BV12(234756002) - VG	28-Jul-09	Iodine-131	-4.11E+00	1.64E+01	2.75E+01	6.00E+01	1.64E+01	pCi/kg
Broadleaf Vegetation BV12(236060002) - VG	24-Aug-09	Iodine-131	2.02E+00	2.02E+01	3.39E+01	6.00E+01	2.02E+01	pCi/kg
Broadleaf Vegetation BV12(237886002) - VG	21-Sep-09	Iodine-131	2.22E+00	7.94E+00	1.39E+01	6.00E+01	7.94E+00	pCi/kg
Broadleaf Vegetation BV12(234756002) - VG	28-Jul-09	Potassium-40	1.81E+03	2.68E+02	1.16E+02		2.68E+02	pCi/kg
Broadleaf Vegetation BV12(236060002) - VG	24-Aug-09	Potassium-40	2.38E+03	3.58E+02	1.96E+02		3.58E+02	pCi/kg
Broadleaf Vegetation BV12(237886002) - VG	21-Sep-09	Potassium-40	1.53E+03	1.88E+02	8.75E+01		1.88E+02	pCi/kg

Broadleaf Vegetation BV13
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV13(234756003) - VG	28-Jul-09	Beryllium-7	1.83E+03	2.46E+02	1.61E+02		2.46E+02	pCi/kg
Broadleaf Vegetation BV13(236060003) - VG	24-Aug-09	Beryllium-7	1.50E+03	2.06E+02	1.12E+02		2.06E+02	pCi/kg
Broadleaf Vegetation BV13(237886003) - VG	21-Sep-09	Beryllium-7	5.02E+03	4.21E+02	1.12E+02		4.21E+02	pCi/kg
Broadleaf Vegetation BV13(234756003) - VG	28-Jul-09	Cesium-134	-5.25E-01	1.27E+01	2.17E+01	6.00E+01	1.27E+01	pCi/kg
Broadleaf Vegetation BV13(236060003) - VG	24-Aug-09	Cesium-134	7.50E+00	1.04E+01	1.84E+01	6.00E+01	1.04E+01	pCi/kg
Broadleaf Vegetation BV13(237886003) - VG	21-Sep-09	Cesium-134	1.95E+00	9.83E+00	1.70E+01	6.00E+01	9.83E+00	pCi/kg
Broadleaf Vegetation BV13(234756003) - VG	28-Jul-09	Cesium-137	5.95E+01	1.87E+01	2.00E+01	8.00E+01	1.87E+01	pCi/kg
Broadleaf Vegetation BV13(236060003) - VG	24-Aug-09	Cesium-137	2.09E+01	1.55E+01	1.42E+01	8.00E+01	1.55E+01	pCi/kg
Broadleaf Vegetation BV13(237886003) - VG	21-Sep-09	Cesium-137	1.76E+01	1.68E+01	1.37E+01	8.00E+01	1.68E+01	pCi/kg
Broadleaf Vegetation BV13(234756003) - VG	28-Jul-09	Iodine-131	-2.01E+00	2.43E+01	4.12E+01	6.00E+01	2.43E+01	pCi/kg
Broadleaf Vegetation BV13(236060003) - VG	24-Aug-09	Iodine-131	-6.77E+00	1.50E+01	2.43E+01	6.00E+01	1.50E+01	pCi/kg
Broadleaf Vegetation BV13(237886003) - VG	21-Sep-09	Iodine-131	1.34E+01	1.46E+01	2.57E+01	6.00E+01	1.46E+01	pCi/kg

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Broadleaf Vegetation BV13(234756003) - VG	28-Jul-09	Potassium-40	1.95E+03	3.55E+02	1.76E+02		3.55E+02	pCi/kg
Broadleaf Vegetation BV13(236060003) - VG	24-Aug-09	Potassium-40	3.04E+03	3.69E+02	1.19E+02		3.69E+02	pCi/kg
Broadleaf Vegetation BV13(237886003) - VG	21-Sep-09	Potassium-40	2.48E+03	3.33E+02	1.19E+02		3.33E+02	pCi/kg

Broadleaf Vegetation BV21
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV21(234756004) - VG	28-Jul-09	Beryllium-7	1.18E+03	1.98E+02	1.37E+02		1.98E+02	pCi/kg
Broadleaf Vegetation BV21(236060004) - VG	24-Aug-09	Beryllium-7	1.93E+03	2.17E+02	1.30E+02		2.17E+02	pCi/kg
Broadleaf Vegetation BV21(237886004) - VG	21-Sep-09	Beryllium-7	7.69E+03	5.74E+02	1.23E+02		5.74E+02	pCi/kg
Broadleaf Vegetation BV21(234756004) - VG	28-Jul-09	Cesium-134	6.59E+00	1.22E+01	2.13E+01	6.00E+01	1.22E+01	pCi/kg
Broadleaf Vegetation BV21(236060004) - VG	24-Aug-09	Cesium-134	1.07E-01	1.04E+01	1.72E+01	6.00E+01	1.04E+01	pCi/kg
Broadleaf Vegetation BV21(237886004) - VG	21-Sep-09	Cesium-134	4.14E+00	9.53E+00	1.68E+01	6.00E+01	9.53E+00	pCi/kg
Broadleaf Vegetation BV21(234756004) - VG	28-Jul-09	Cesium-137	6.99E+01	1.74E+01	1.61E+01	8.00E+01	1.74E+01	pCi/kg
Broadleaf Vegetation BV21(236060004) - VG	24-Aug-09	Cesium-137	3.10E+01	1.50E+01	1.65E+01	8.00E+01	1.50E+01	pCi/kg
Broadleaf Vegetation BV21(237886004) - VG	21-Sep-09	Cesium-137	3.37E+01	1.90E+01	1.40E+01	8.00E+01	1.90E+01	pCi/kg
Broadleaf Vegetation BV21(234756004) - VG	28-Jul-09	Iodine-131	-7.57E+00	1.88E+01	3.08E+01	6.00E+01	1.88E+01	pCi/kg
Broadleaf Vegetation BV21(236060004) - VG	24-Aug-09	Iodine-131	-2.21E+00	1.51E+01	2.55E+01	6.00E+01	1.51E+01	pCi/kg
Broadleaf Vegetation BV21(237886004) - VG	21-Sep-09	Iodine-131	-8.96E+00	1.68E+01	2.80E+01	6.00E+01	1.68E+01	pCi/kg
Broadleaf Vegetation BV21(234756004) - VG	28-Jul-09	Potassium-40	1.78E+03	3.56E+02	1.67E+02		3.56E+02	pCi/kg
Broadleaf Vegetation BV21(236060004) - VG	24-Aug-09	Potassium-40	2.23E+03	3.38E+02	1.55E+02		3.38E+02	pCi/kg
Broadleaf Vegetation BV21(237886004) - VG	21-Sep-09	Potassium-40	1.41E+03	2.78E+02	1.39E+02		2.78E+02	pCi/kg

Broadleaf Vegetation BV22
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BV22(234756005) - VG	28-Jul-09	Beryllium-7	9.39E+02	1.74E+02	1.46E+02		1.74E+02	pCi/kg
Broadleaf Vegetation BV22(236060005) - VG	24-Aug-09	Beryllium-7	4.03E+03	3.85E+02	1.66E+02		3.85E+02	pCi/kg
Broadleaf Vegetation BV22(237886005) - VG	21-Sep-09	Beryllium-7	2.25E+03	2.07E+02	8.64E+01		2.07E+02	pCi/kg
Broadleaf Vegetation BV22(234756005) - VG	28-Jul-09	Cesium-134	1.22E+00	1.24E+01	2.08E+01	6.00E+01	1.24E+01	pCi/kg
Broadleaf Vegetation BV22(236060005) - VG	24-Aug-09	Cesium-134	-3.66E+00	2.07E+01	2.65E+01	6.00E+01	2.07E+01	pCi/kg
Broadleaf Vegetation BV22(237886005) - VG	21-Sep-09	Cesium-134	-2.25E+00	6.98E+00	1.16E+01	6.00E+01	6.98E+00	pCi/kg
Broadleaf Vegetation BV22(234756005) - VG	28-Jul-09	Cesium-137	4.64E+01	2.01E+01	1.90E+01	8.00E+01	2.01E+01	pCi/kg
Broadleaf Vegetation BV22(236060005) - VG	24-Aug-09	Cesium-137	5.11E+01	2.26E+01	1.93E+01	8.00E+01	2.26E+01	pCi/kg
Broadleaf Vegetation BV22(237886005) - VG	21-Sep-09	Cesium-137	2.93E+01	1.11E+01	9.65E+00	8.00E+01	1.11E+01	pCi/kg
Broadleaf Vegetation BV22(234756005) - VG	28-Jul-09	Iodine-131	1.93E+00	2.12E+01	3.58E+01	6.00E+01	2.12E+01	pCi/kg
Broadleaf Vegetation BV22(236060005) - VG	24-Aug-09	Iodine-131	1.06E+01	2.12E+01	3.69E+01	6.00E+01	2.12E+01	pCi/kg
Broadleaf Vegetation BV22(237886005) - VG	21-Sep-09	Iodine-131	8.25E+00	1.02E+01	1.80E+01	6.00E+01	1.02E+01	pCi/kg
Broadleaf Vegetation BV22(234756005) - VG	28-Jul-09	Potassium-40	2.69E+03	3.38E+02	1.61E+02		3.38E+02	pCi/kg
Broadleaf Vegetation BV22(236060005) - VG	24-Aug-09	Potassium-40	1.73E+03	3.84E+02	1.89E+02		3.84E+02	pCi/kg
Broadleaf Vegetation BV22(237886005) - VG	21-Sep-09	Potassium-40	2.45E+03	2.82E+02	1.01E+02		2.82E+02	pCi/kg

Broadleaf Vegetation BV23
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
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Broadleaf Vegetation BV23(234756006) - VG	28-Jul-09	Beryllium-7	6.40E+02	1.88E+02	1.61E+02		1.88E+02	pCi/kg
Broadleaf Vegetation BV23(236060006) - VG	24-Aug-09	Beryllium-7	8.65E+03	6.74E+02	1.77E+02		6.74E+02	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Beryllium-7	5.79E+03	4.78E+02	1.13E+02		4.78E+02	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Bismuth-210	1.41E+03	3.26E+02	1.95E+02		3.26E+02	pCi/kg
Broadleaf Vegetation BV23(234756006) - VG	28-Jul-09	Cesium-134	-4.90E-01	1.37E+01	2.25E+01	6.00E+01	1.37E+01	pCi/kg
Broadleaf Vegetation BV23(236060006) - VG	24-Aug-09	Cesium-134	6.71E+00	1.41E+01	2.42E+01	6.00E+01	1.41E+01	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Cesium-134	1.20E-01	1.02E+01	1.75E+01	6.00E+01	1.02E+01	pCi/kg
Broadleaf Vegetation BV23(234756006) - VG	28-Jul-09	Cesium-137	2.88E+01	1.52E+01	1.79E+01	8.00E+01	1.52E+01	pCi/kg
Broadleaf Vegetation BV23(236060006) - VG	24-Aug-09	Cesium-137	1.28E+02	2.31E+01	2.09E+01	8.00E+01	2.31E+01	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Cesium-137	1.87E+02	2.56E+01	1.70E+01	8.00E+01	2.56E+01	pCi/kg
Broadleaf Vegetation BV23(234756006) - VG	28-Jul-09	Iodine-131	7.96E+00	2.17E+01	3.76E+01	6.00E+01	2.17E+01	pCi/kg
Broadleaf Vegetation BV23(236060006) - VG	24-Aug-09	Iodine-131	-2.08E+00	2.07E+01	3.52E+01	6.00E+01	2.07E+01	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Iodine-131	-7.38E+00	1.65E+01	2.78E+01	6.00E+01	1.65E+01	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Lead-210	1.41E+03	3.26E+02	1.95E+02		3.26E+02	pCi/kg
Broadleaf Vegetation BV23(234756006) - VG	28-Jul-09	Potassium-40	2.07E+03	3.34E+02	1.83E+02		3.34E+02	pCi/kg
Broadleaf Vegetation BV23(236060006) - VG	24-Aug-09	Potassium-40	1.70E+03	3.21E+02	1.75E+02		3.21E+02	pCi/kg
Broadleaf Vegetation BV23(237886006) - VG	21-Sep-09	Potassium-40	1.93E+03	2.86E+02	1.47E+02		2.86E+02	pCi/kg

Broadleaf Vegetation BVC1,2,3
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation BVC1,2,3(230862002) - VG	29-May-09	Beryllium-7	4.03E+02	6.51E+01	4.93E+01		6.51E+01	pCi/kg
Broadleaf Vegetation BVC1,2,3(232223002) - VG	18-Jun-09	Beryllium-7	1.00E+03	1.40E+02	9.25E+01		1.40E+02	pCi/kg
Broadleaf Vegetation BVC1,2,3(234479002) - VG	28-Jul-09	Beryllium-7	1.40E+03	1.48E+02	8.18E+01		1.48E+02	pCi/kg
Broadleaf Vegetation BVC1,2,3(230862002) - VG	29-May-09	Cesium-134	-7.25E-01	4.46E+00	7.57E+00	6.00E+01	4.46E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(232223002) - VG	18-Jun-09	Cesium-134	7.24E+00	8.33E+00	1.51E+01	6.00E+01	8.33E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(234479002) - VG	28-Jul-09	Cesium-134	8.69E-01	7.29E+00	1.26E+01	6.00E+01	7.29E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(230862002) - VG	29-May-09	Cesium-137	1.94E+00	4.06E+00	6.90E+00	8.00E+01	4.06E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(232223002) - VG	18-Jun-09	Cesium-137	3.75E+00	1.37E+01	1.08E+01	8.00E+01	1.37E+01	pCi/kg
Broadleaf Vegetation BVC1,2,3(234479002) - VG	28-Jul-09	Cesium-137	-1.57E+00	6.34E+00	1.03E+01	8.00E+01	6.34E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(230862002) - VG	29-May-09	Iodine-131	-4.75E+00	6.31E+00	1.04E+01	6.00E+01	6.31E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(232223002) - VG	18-Jun-09	Iodine-131	-1.20E+00	1.07E+01	1.80E+01	6.00E+01	1.07E+01	pCi/kg
Broadleaf Vegetation BVC1,2,3(234479002) - VG	28-Jul-09	Iodine-131	8.26E+00	9.63E+00	1.70E+01	6.00E+01	9.63E+00	pCi/kg
Broadleaf Vegetation BVC1,2,3(230862002) - VG	29-May-09	Potassium-40	2.63E+03	2.51E+02	3.36E+02		2.51E+02	pCi/kg
Broadleaf Vegetation BVC1,2,3(232223002) - VG	18-Jun-09	Potassium-40	2.73E+03	3.13E+02	9.89E+01		3.13E+02	pCi/kg
Broadleaf Vegetation BVC1,2,3(234479002) - VG	28-Jul-09	Potassium-40	6.77E+03	6.05E+02	8.56E+01		6.05E+02	pCi/kg

Broadleaf Vegetation Control BVC1
VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation Control BVC1(234756007) - VG	28-Jul-09	Beryllium-7	8.41E+02	1.53E+02	1.14E+02		1.53E+02	pCi/kg
Broadleaf Vegetation Control BVC1(236176001) - VG	25-Aug-09	Beryllium-7	1.84E+03	1.69E+02	8.03E+01		1.69E+02	pCi/kg
Broadleaf Vegetation Control BVC1(237886007) - VG	22-Sep-09	Beryllium-7	2.30E+03	2.03E+02	9.13E+01		2.03E+02	pCi/kg
Broadleaf Vegetation Control BVC1(234756007) - VG	28-Jul-09	Cesium-134	2.79E+00	9.49E+00	1.66E+01	6.00E+01	9.49E+00	pCi/kg
Broadleaf Vegetation Control BVC1(236176001) - VG	25-Aug-09	Cesium-134	6.66E+00	7.35E+00	1.28E+01	6.00E+01	7.35E+00	pCi/kg

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Broadleaf Vegetation Control BVC1(237886007) - VG	22-Sep-09	Cesium-134	-4.99E+00	8.04E+00	1.33E+01	6.00E+01	8.04E+00	pCi/kg
Broadleaf Vegetation Control BVC1(234756007) - VG	28-Jul-09	Cesium-137	7.34E+00	8.07E+00	1.41E+01	8.00E+01	8.07E+00	pCi/kg
Broadleaf Vegetation Control BVC1(236176001) - VG	25-Aug-09	Cesium-137	-4.37E+00	1.01E+01	1.27E+01	8.00E+01	1.01E+01	pCi/kg
Broadleaf Vegetation Control BVC1(237886007) - VG	22-Sep-09	Cesium-137	2.09E+00	6.65E+00	1.12E+01	8.00E+01	6.65E+00	pCi/kg
Broadleaf Vegetation Control BVC1(234756007) - VG	28-Jul-09	Iodine-131	-2.07E+00	1.62E+01	2.75E+01	6.00E+01	1.62E+01	pCi/kg
Broadleaf Vegetation Control BVC1(236176001) - VG	25-Aug-09	Iodine-131	3.93E+00	8.54E+00	1.48E+01	6.00E+01	8.54E+00	pCi/kg
Broadleaf Vegetation Control BVC1(237886007) - VG	22-Sep-09	Iodine-131	6.16E+00	1.09E+01	1.90E+01	6.00E+01	1.09E+01	pCi/kg
Broadleaf Vegetation Control BVC1(234756007) - VG	28-Jul-09	Potassium-40	4.38E+03	4.35E+02	1.43E+02		4.35E+02	pCi/kg
Broadleaf Vegetation Control BVC1(236176001) - VG	25-Aug-09	Potassium-40	7.12E+03	5.96E+02	9.73E+01		5.96E+02	pCi/kg
Broadleaf Vegetation Control BVC1(237886007) - VG	22-Sep-09	Potassium-40	6.60E+03	5.64E+02	6.62E+01		5.64E+02	pCi/kg

Broadleaf Vegetation Control BVC2 VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation Control BVC2(234756008) - VG	28-Jul-09	Beryllium-7	6.00E+02	1.28E+02	1.09E+02		1.28E+02	pCi/kg
Broadleaf Vegetation Control BVC2(236176002) - VG	25-Aug-09	Beryllium-7	1.46E+03	1.36E+02	5.68E+01		1.36E+02	pCi/kg
Broadleaf Vegetation Control BVC2(237886008) - VG	22-Sep-09	Beryllium-7	1.77E+03	1.60E+02	7.15E+01		1.60E+02	pCi/kg
Broadleaf Vegetation Control BVC2(234756008) - VG	28-Jul-09	Cesium-134	2.26E+00	9.86E+00	1.72E+01	6.00E+01	9.86E+00	pCi/kg
Broadleaf Vegetation Control BVC2(236176002) - VG	25-Aug-09	Cesium-134	4.24E+00	5.34E+00	9.39E+00	6.00E+01	5.34E+00	pCi/kg
Broadleaf Vegetation Control BVC2(237886008) - VG	22-Sep-09	Cesium-134	-2.55E+00	6.10E+00	1.00E+01	6.00E+01	6.10E+00	pCi/kg
Broadleaf Vegetation Control BVC2(234756008) - VG	28-Jul-09	Cesium-137	1.32E+00	8.80E+00	1.47E+01	8.00E+01	8.80E+00	pCi/kg
Broadleaf Vegetation Control BVC2(236176002) - VG	25-Aug-09	Cesium-137	2.92E+00	4.38E+00	7.74E+00	8.00E+01	4.38E+00	pCi/kg
Broadleaf Vegetation Control BVC2(237886008) - VG	22-Sep-09	Cesium-137	4.18E+00	9.80E+00	8.13E+00	8.00E+01	9.80E+00	pCi/kg
Broadleaf Vegetation Control BVC2(234756008) - VG	28-Jul-09	Iodine-131	1.22E+00	1.48E+01	2.54E+01	6.00E+01	1.48E+01	pCi/kg
Broadleaf Vegetation Control BVC2(236176002) - VG	25-Aug-09	Iodine-131	3.52E+00	6.75E+00	1.16E+01	6.00E+01	6.75E+00	pCi/kg
Broadleaf Vegetation Control BVC2(237886008) - VG	22-Sep-09	Iodine-131	3.37E+00	8.55E+00	1.48E+01	6.00E+01	8.55E+00	pCi/kg
Broadleaf Vegetation Control BVC2(234756008) - VG	28-Jul-09	Potassium-40	5.46E+03	4.72E+02	1.40E+02		4.72E+02	pCi/kg
Broadleaf Vegetation Control BVC2(236176002) - VG	25-Aug-09	Potassium-40	2.60E+03	2.82E+02	7.82E+01		2.82E+02	pCi/kg
Broadleaf Vegetation Control BVC2(237886008) - VG	22-Sep-09	Potassium-40	4.83E+03	4.28E+02	8.19E+01		4.28E+02	pCi/kg

Broadleaf Vegetation Control BVC3 VG

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Broadleaf Vegetation Control BVC3(234756009) - VG	28-Jul-09	Beryllium-7	1.19E+03	1.15E+02	4.97E+01		1.15E+02	pCi/kg
Broadleaf Vegetation Control BVC3(236176003) - VG	25-Aug-09	Beryllium-7	1.26E+03	1.12E+02	5.19E+01		1.12E+02	pCi/kg
Broadleaf Vegetation Control BVC3(237886009) - VG	22-Sep-09	Beryllium-7	1.20E+03	1.22E+02	5.40E+01		1.22E+02	pCi/kg
Broadleaf Vegetation Control BVC3(234756009) - VG	28-Jul-09	Cesium-134	5.45E-01	4.76E+00	8.21E+00	6.00E+01	4.76E+00	pCi/kg
Broadleaf Vegetation Control BVC3(236176003) - VG	25-Aug-09	Cesium-134	3.44E+00	4.70E+00	8.32E+00	6.00E+01	4.70E+00	pCi/kg
Broadleaf Vegetation Control BVC3(237886009) - VG	22-Sep-09	Cesium-134	2.22E+00	5.54E+00	9.52E+00	6.00E+01	5.54E+00	pCi/kg
Broadleaf Vegetation Control BVC3(234756009) - VG	28-Jul-09	Cesium-137	1.07E+00	4.22E+00	7.09E+00	8.00E+01	4.22E+00	pCi/kg
Broadleaf Vegetation Control BVC3(236176003) - VG	25-Aug-09	Cesium-137	-1.40E+00	3.98E+00	6.47E+00	8.00E+01	3.98E+00	pCi/kg
Broadleaf Vegetation Control BVC3(237886009) - VG	22-Sep-09	Cesium-137	-1.53E+00	5.44E+00	7.91E+00	8.00E+01	5.44E+00	pCi/kg
Broadleaf Vegetation Control BVC3(234756009) - VG	28-Jul-09	Iodine-131	4.91E+00	7.69E+00	1.35E+01	6.00E+01	7.69E+00	pCi/kg
Broadleaf Vegetation Control BVC3(236176003) - VG	25-Aug-09	Iodine-131	-1.90E+00	5.91E+00	9.96E+00	6.00E+01	5.91E+00	pCi/kg
Broadleaf Vegetation Control BVC3(237886009) - VG	22-Sep-09	Iodine-131	4.03E+00	7.42E+00	1.28E+01	6.00E+01	7.42E+00	pCi/kg

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Broadleaf Vegetation Control BVC3(234756009) - VG	28-Jul-09	Potassium-40	6.78E+03	5.71E+02	5.88E+01		5.71E+02	pCi/kg
Broadleaf Vegetation Control BVC3(236176003) - VG	25-Aug-09	Potassium-40	5.82E+03	4.91E+02	5.53E+01		4.91E+02	pCi/kg
Broadleaf Vegetation Control BVC3(237886009) - VG	22-Sep-09	Potassium-40	2.46E+03	2.38E+02	6.27E+01		2.38E+02	pCi/kg

CP milk
MK

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
CP milk(234040001) - MK	23-Jul-09	Barium-140	-1.52E+00	5.33E+00	9.02E+00	1.50E+01	5.33E+00	pCi/L
CP milk(234040001) - MK	23-Jul-09	Cesium-134	2.99E-01	1.73E+00	2.93E+00	1.50E+01	1.73E+00	pCi/L
CP milk(234040001) - MK	23-Jul-09	Cesium-137	-3.36E-02	1.34E+00	2.28E+00	1.80E+01	1.34E+00	pCi/L
CP milk(234040001) - MK	23-Jul-09	Iodine-131	-2.10E-01	3.35E-01	5.49E-01	1.00E+00	3.35E-01	pCi/L
CP milk(234040001) - MK	23-Jul-09	Lanthanum-140	-5.07E-01	1.83E+00	2.99E+00	1.50E+01	1.83E+00	pCi/L
CP milk(234040001) - MK	23-Jul-09	Potassium-40	1.08E+03	9.89E+01	2.04E+01		9.89E+01	pCi/L

Carp Palisades FSH1
FH

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Cesium-134	-3.31E+00	5.81E+00	8.38E+00	1.30E+02	5.81E+00	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Cesium-137	5.99E+00	3.50E+00	6.59E+00	1.50E+02	3.50E+00	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Cobalt-58	-1.31E+00	4.98E+00	7.97E+00	1.30E+02	4.98E+00	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Cobalt-60	-3.51E-01	4.48E+00	7.43E+00	1.30E+02	4.48E+00	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Iron-59	1.74E+00	1.30E+01	2.23E+01	2.60E+02	1.30E+01	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Manganese-54	1.74E+00	3.69E+00	6.59E+00	1.30E+02	3.69E+00	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Potassium-40	2.75E+03	2.61E+02	4.66E+01	5.00E+02	2.61E+02	pCi/kg
Carp Palisades FSH1(242933001) - FH	24-Nov-09	Zinc-65	9.67E-01	1.09E+01	1.85E+01	2.60E+02	1.09E+01	pCi/kg

Chinook Salmon Palisades FSH1
FH

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Cesium-134	-1.32E-01	3.91E+01	6.50E+01	1.30E+02	3.91E+01	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Cesium-137	3.82E+01	3.34E+01	6.33E+01	1.50E+02	3.34E+01	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Cobalt-58	7.72E-01	3.78E+01	6.29E+01	1.30E+02	3.78E+01	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Cobalt-60	-5.01E+00	3.49E+01	5.63E+01	1.30E+02	3.49E+01	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Iron-59	-8.67E+00	1.30E+02	2.17E+02	2.60E+02	1.30E+02	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Manganese-54	2.32E+01	3.05E+01	5.61E+01	1.30E+02	3.05E+01	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Potassium-40	4.78E+03	9.37E+02	5.80E+02	5.00E+02	9.37E+02	pCi/kg
Chinook Salmon Palisades FSH1(231753001) - FH	8-May-09	Zinc-65	-3.67E+01	7.84E+01	1.23E+02	2.60E+02	7.84E+01	pCi/kg

DH milk
MK

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
DH milk(234040003) - MK	23-Jul-09	Barium-140	4.09E+00	5.41E+00	8.94E+00	1.50E+01	5.41E+00	pCi/L
DH milk(234040003) - MK	23-Jul-09	Cesium-134	8.76E-01	1.60E+00	2.76E+00	1.50E+01	1.60E+00	pCi/L
DH milk(234040003) - MK	23-Jul-09	Cesium-137	-9.34E-01	1.22E+00	2.00E+00	1.80E+01	1.22E+00	pCi/L
DH milk(234040003) - MK	23-Jul-09	Iodine-131	8.05E-03	2.77E-01	4.69E-01	1.00E+00	2.77E-01	pCi/L

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DH milk(234040003) - MK	23-Jul-09	Lanthanum-140	-1.68E+00	1.66E+00	2.51E+00	1.50E+01	1.66E+00	pCi/L
DH milk(234040003) - MK	23-Jul-09	Potassium-40	1.48E+03	1.17E+02	1.89E+01		1.17E+02	pCi/L

Domestic Water - DW DW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Domestic Water - DW(224265004) - DW	1-Feb-09	BETA	3.71E-01	1.78E+00	2.93E+00	4.00E+00	1.78E+00	pCi/L
Domestic Water - DW(225826004) - DW	1-Mar-09	BETA	1.04E+00	1.71E+00	2.68E+00	4.00E+00	1.72E+00	pCi/L
Domestic Water - DW(227634004) - DW	1-Apr-09	BETA	2.06E+00	1.26E+00	2.00E+00	4.00E+00	1.30E+00	pCi/L
Domestic Water - DW(230005004) - DW	1-May-09	BETA	-8.62E-01	1.93E+00	3.35E+00	4.00E+00	1.93E+00	pCi/L
Domestic Water - DW(231263004) - DW	1-Jun-09	BETA	4.67E+00	2.56E+00	3.66E+00	4.00E+00	2.67E+00	pCi/L
Domestic Water - DW(233662004) - DW	1-Jul-09	BETA	3.19E+00	2.04E+00	2.43E+00	4.00E+00	2.11E+00	pCi/L
Domestic Water - DW(235153004) - DW	1-Aug-09	BETA	1.02E+00	1.87E+00	2.81E+00	4.00E+00	1.87E+00	pCi/L
Domestic Water - DW(237161004) - DW	1-Sep-09	BETA	3.06E+00	2.15E+00	2.72E+00	4.00E+00	2.21E+00	pCi/L
Domestic Water - DW(238868004) - DW	1-Oct-09	BETA	-4.43E-01	1.64E+00	2.87E+00	4.00E+00	1.64E+00	pCi/L
Domestic Water - DW(240717004) - DW	1-Nov-09	BETA	1.61E+00	2.20E+00	3.53E+00	4.00E+00	2.22E+00	pCi/L
Domestic Water - DW(242953003) - DW	1-Dec-09	BETA	2.36E+00	2.06E+00	3.35E+00	4.00E+00	2.09E+00	pCi/L
Domestic Water - DW(224265004) - DW	1-Feb-09	Tritium	5.09E+01	2.26E+02	3.69E+02	2.00E+03	2.26E+02	pCi/L
Domestic Water - DW(225826004) - DW	1-Mar-09	Tritium	-2.16E+02	3.00E+02	5.36E+02	2.00E+03	3.00E+02	pCi/L
Domestic Water - DW(227634004) - DW	1-Apr-09	Tritium	-2.30E+01	8.78E+01	1.49E+02	2.00E+03	8.78E+01	pCi/L
Domestic Water - DW(230005004) - DW	1-May-09	Tritium	-1.50E+02	2.70E+02	4.74E+02	2.00E+03	2.70E+02	pCi/L
Domestic Water - DW(231263004) - DW	1-Jun-09	Tritium	5.74E+01	2.94E+02	4.86E+02	2.00E+03	2.94E+02	pCi/L
Domestic Water - DW(233662004) - DW	1-Jul-09	Tritium	-2.92E+02	2.92E+02	5.36E+02	2.00E+03	2.92E+02	pCi/L
Domestic Water - DW(235153004) - DW	1-Aug-09	Tritium	1.11E+02	2.46E+02	3.92E+02	2.00E+03	2.47E+02	pCi/L
Domestic Water - DW(237161004) - DW	1-Sep-09	Tritium	0.00E+00	2.85E+02	4.78E+02	2.00E+03	2.85E+02	pCi/L
Domestic Water - DW(238868004) - DW	1-Oct-09	Tritium	2.81E+01	2.64E+02	4.38E+02	2.00E+03	2.64E+02	pCi/L
Domestic Water - DW(240717004) - DW	1-Nov-09	Tritium	2.18E+02	3.55E+02	5.67E+02	2.00E+03	3.58E+02	pCi/L
Domestic Water - DW(242953003) - DW	1-Dec-09	Tritium	-4.44E+01	2.92E+02	4.97E+02	2.00E+03	2.92E+02	pCi/L

Lake In - LKIN SW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Lake In - LKIN(224265001) - SW	1-Feb-09	BETA	8.93E-01	2.25E+00	3.62E+00	4.00E+00	2.26E+00	pCi/L
Lake In - LKIN(225826001) - SW	1-Mar-09	BETA	3.11E+00	2.37E+00	3.61E+00	4.00E+00	2.43E+00	pCi/L
Lake In - LKIN(227634001) - SW	1-Apr-09	BETA	6.60E-01	1.27E+00	2.11E+00	4.00E+00	1.28E+00	pCi/L
Lake In - LKIN(230005002) - SW	1-May-09	BETA	2.06E+00	2.24E+00	3.51E+00	4.00E+00	2.26E+00	pCi/L
Lake In - LKIN(231263002) - SW	1-Jun-09	BETA	1.51E+00	2.02E+00	3.12E+00	4.00E+00	2.04E+00	pCi/L
Lake In - LKIN(233662002) - SW	1-Jul-09	BETA	1.89E+00	1.96E+00	2.70E+00	4.00E+00	1.98E+00	pCi/L
Lake In - LKIN(235153002) - SW	1-Aug-09	BETA	8.26E-01	2.14E+00	3.37E+00	4.00E+00	2.15E+00	pCi/L
Lake In - LKIN(237161002) - SW	1-Sep-09	BETA	2.26E+00	2.00E+00	2.66E+00	4.00E+00	2.03E+00	pCi/L
Lake In - LKIN(238868002) - SW	1-Oct-09	BETA	4.63E+00	2.40E+00	2.74E+00	4.00E+00	2.52E+00	pCi/L
Lake In - LKIN(240717002) - SW	1-Nov-09	BETA	5.58E+00	2.41E+00	3.64E+00	4.00E+00	2.57E+00	pCi/L
Lake In - LKIN(242953001) - SW	1-Dec-09	BETA	2.13E+00	1.83E+00	2.96E+00	4.00E+00	1.86E+00	pCi/L
Lake In - LKIN(224265001) - SW	1-Feb-09	Tritium	5.04E+01	2.24E+02	3.66E+02	2.00E+03	2.24E+02	pCi/L
Lake In - LKIN(225826001) - SW	1-Mar-09	Tritium	-1.15E+02	3.03E+02	5.26E+02	2.00E+03	3.03E+02	pCi/L

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Lake In - LKIN(227634001) - SW	1-Apr-09	Tritium	9.57E+00	8.87E+01	1.48E+02	2.00E+03	8.87E+01	pCi/L
Lake In - LKIN(230005002) - SW	1-May-09	Tritium	-4.67E+01	2.81E+02	4.77E+02	2.00E+03	2.81E+02	pCi/L
Lake In - LKIN(231263002) - SW	1-Jun-09	Tritium	0.00E+00	2.89E+02	4.85E+02	2.00E+03	2.89E+02	pCi/L
Lake In - LKIN(233662002) - SW	1-Jul-09	Tritium	-1.82E+02	2.98E+02	5.27E+02	2.00E+03	2.98E+02	pCi/L
Lake In - LKIN(235153002) - SW	1-Aug-09	Tritium	5.48E+01	2.37E+02	3.88E+02	2.00E+03	2.37E+02	pCi/L
Lake In - LKIN(237161002) - SW	1-Sep-09	Tritium	-6.71E+01	2.82E+02	4.82E+02	2.00E+03	2.82E+02	pCi/L
Lake In - LKIN(238868002) - SW	1-Oct-09	Tritium	-1.06E+02	2.50E+02	4.39E+02	2.00E+03	2.50E+02	pCi/L
Lake In - LKIN(240717002) - SW	1-Nov-09	Tritium	5.73E+01	3.45E+02	5.72E+02	2.00E+03	3.46E+02	pCi/L
Lake In - LKIN(242953001) - SW	1-Dec-09	Tritium	3.62E+02	2.79E+02	4.04E+02	2.00E+03	2.88E+02	pCi/L

Lake Trout Palisades FSH2

FH

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Cesium-134	1.44E+01	5.47E+01	9.55E+01	1.30E+02	5.47E+01	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Cesium-137	4.36E+01	4.88E+01	8.67E+01	1.50E+02	4.88E+01	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Cobalt-58	9.16E+01	6.55E+01	1.24E+02	1.30E+02	6.55E+01	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Cobalt-60	-5.70E+01	4.59E+01	6.32E+01	1.30E+02	4.59E+01	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Iron-59	1.21E+01	1.35E+02	2.25E+02	2.60E+02	1.35E+02	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Manganese-54	-1.62E+01	4.41E+01	7.21E+01	1.30E+02	4.41E+01	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Potassium-40	3.11E+03	9.32E+02	7.08E+02	5.00E+02	9.32E+02	pCi/kg
Lake Trout Palisades FSH2(231753002) - FH	8-May-09	Zinc-65	6.36E+01	9.28E+01	1.66E+02	2.60E+02	9.28E+01	pCi/kg

Ludington Control

SW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Ludington Control(224265002) - SW	1-Feb-09	BETA	1.40E+00	2.15E+00	3.35E+00	4.00E+00	2.17E+00	pCi/L
Ludington Control(225826002) - SW	1-Mar-09	BETA	-2.39E+00	1.86E+00	3.47E+00	4.00E+00	1.86E+00	pCi/L
Ludington Control(227634002) - SW	1-Apr-09	BETA	2.33E+00	1.56E+00	2.53E+00	4.00E+00	1.61E+00	pCi/L
Ludington Control(230005001) - SW	1-May-09	BETA	1.54E+00	2.08E+00	3.29E+00	4.00E+00	2.09E+00	pCi/L
Ludington Control(231263001) - SW	1-Jun-09	BETA	1.47E+00	2.00E+00	3.09E+00	4.00E+00	2.02E+00	pCi/L
Ludington Control(233662001) - SW	1-Jul-09	BETA	4.02E+00	2.51E+00	3.58E+00	4.00E+00	2.59E+00	pCi/L
Ludington Control(235153001) - SW	1-Aug-09	BETA	2.50E+00	2.36E+00	3.66E+00	4.00E+00	2.39E+00	pCi/L
Ludington Control(237161001) - SW	1-Sep-09	BETA	6.79E-01	2.10E+00	3.34E+00	4.00E+00	2.10E+00	pCi/L
Ludington Control(238868001) - SW	1-Oct-09	BETA	2.50E+00	1.98E+00	2.65E+00	4.00E+00	2.02E+00	pCi/L
Ludington Control(240717001) - SW	1-Nov-09	BETA	2.39E+00	2.22E+00	3.42E+00	4.00E+00	2.25E+00	pCi/L
Ludington Control(242831001) - SW	1-Dec-09	BETA	-3.42E-01	2.11E+00	3.56E+00	4.00E+00	2.11E+00	pCi/L
Ludington Control(224265002) - SW	1-Feb-09	Tritium	1.04E+02	2.32E+02	3.70E+02	2.00E+03	2.33E+02	pCi/L
Ludington Control(225826002) - SW	1-Mar-09	Tritium	-1.29E+02	3.06E+02	5.32E+02	2.00E+03	3.06E+02	pCi/L
Ludington Control(227634002) - SW	1-Apr-09	Tritium	-5.96E+01	8.67E+01	1.49E+02	2.00E+03	8.67E+01	pCi/L
Ludington Control(230005001) - SW	1-May-09	Tritium	-1.47E+02	2.66E+02	4.66E+02	2.00E+03	2.66E+02	pCi/L
Ludington Control(231263001) - SW	1-Jun-09	Tritium	6.75E+01	2.94E+02	4.85E+02	2.00E+03	2.94E+02	pCi/L
Ludington Control(233662001) - SW	1-Jul-09	Tritium	-1.05E+02	3.05E+02	5.28E+02	2.00E+03	3.05E+02	pCi/L
Ludington Control(235153001) - SW	1-Aug-09	Tritium	1.44E+01	2.36E+02	3.93E+02	2.00E+03	2.36E+02	pCi/L
Ludington Control(237161001) - SW	1-Sep-09	Tritium	-7.65E+01	2.79E+02	4.78E+02	2.00E+03	2.79E+02	pCi/L
Ludington Control(238868001) - SW	1-Oct-09	Tritium	1.49E+02	2.76E+02	4.37E+02	2.00E+03	2.77E+02	pCi/L

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Ludington Control(240717001) - SW	1-Nov-09	Tritium	2.80E+01	3.35E+02	5.59E+02	2.00E+03	3.35E+02	pCi/L
Ludington Control(242831001) - SW	1-Dec-09	Tritium	-1.01E+02	2.49E+02	4.34E+02	2.00E+03	2.49E+02	pCi/L

SB milk
MK

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
SB milk(234040002) - MK	23-Jul-09	Barium-140	3.08E+00	5.22E+00	8.74E+00	1.50E+01	5.22E+00	pCi/L
SB milk(234040002) - MK	23-Jul-09	Cesium-134	-3.87E-01	1.47E+00	2.45E+00	1.50E+01	1.47E+00	pCi/L
SB milk(234040002) - MK	23-Jul-09	Cesium-137	-1.00E+00	2.10E+00	2.66E+00	1.80E+01	2.10E+00	pCi/L
SB milk(234040002) - MK	23-Jul-09	Iodine-131	-1.28E-01	2.30E-01	3.77E-01	1.00E+00	2.30E-01	pCi/L
SB milk(234040002) - MK	23-Jul-09	Lanthanum-140	-1.48E+00	1.58E+00	2.40E+00	1.50E+01	1.58E+00	pCi/L
SB milk(234040002) - MK	23-Jul-09	Potassium-40	1.30E+03	1.13E+02	1.88E+01		1.13E+02	pCi/L

Sanitary Wastewater - SWWL
WW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Barium-140	3.02E+00	2.16E+01	3.55E+01	1.50E+01	2.16E+01	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Barium-140	-3.70E+01	4.45E+01	6.89E+01	1.50E+01	4.45E+01	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Barium-140	-6.22E+00	1.44E+01	2.41E+01	1.50E+01	1.44E+01	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Barium-140	8.12E+00	1.53E+01	2.58E+01	1.50E+01	1.53E+01	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Cesium-134	1.14E+00	2.01E+00	3.48E+00	1.50E+01	2.01E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Cesium-134	1.39E+00	2.48E+00	4.37E+00	1.50E+01	2.48E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Cesium-134	-1.96E+00	2.94E+00	4.73E+00	1.50E+01	2.94E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Cesium-134	2.26E+00	2.32E+00	4.21E+00	1.50E+01	2.32E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Cesium-137	-9.76E-01	2.70E+00	3.30E+00	1.80E+01	2.70E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Cesium-137	-1.32E+00	2.20E+00	3.52E+00	1.80E+01	2.20E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Cesium-137	1.36E+00	2.31E+00	4.07E+00	1.80E+01	2.31E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Cesium-137	-1.83E-01	3.69E+00	4.91E+00	1.80E+01	3.69E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Cobalt-58	-7.00E-01	1.97E+00	3.23E+00	1.50E+01	1.97E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Cobalt-58	1.96E-01	2.53E+00	4.36E+00	1.50E+01	2.53E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Cobalt-58	1.61E+00	2.49E+00	4.36E+00	1.50E+01	2.49E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Cobalt-58	-1.12E-02	2.19E+00	3.71E+00	1.50E+01	2.19E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Cobalt-60	-5.41E-01	1.90E+00	3.13E+00	1.50E+01	1.90E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Cobalt-60	1.21E+00	2.13E+00	3.70E+00	1.50E+01	2.13E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Cobalt-60	-2.66E+00	3.54E+00	4.38E+00	1.50E+01	3.54E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Cobalt-60	-1.26E+00	2.82E+00	3.78E+00	1.50E+01	2.82E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Iron-59	-2.09E+00	5.67E+00	7.45E+00	3.00E+01	5.67E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Iron-59	-3.30E+00	6.01E+00	9.70E+00	3.00E+01	6.01E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Iron-59	-1.94E+00	5.09E+00	8.10E+00	3.00E+01	5.09E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Iron-59	7.80E-03	4.80E+00	7.95E+00	3.00E+01	4.80E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Lanthanum-140	1.84E-01	7.59E+00	1.26E+01	1.50E+01	7.59E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Lanthanum-140	1.82E+01	1.46E+01	2.73E+01	1.50E+01	1.46E+01	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Lanthanum-140	7.96E-01	4.71E+00	8.06E+00	1.50E+01	4.71E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Lanthanum-140	2.39E+00	5.41E+00	9.53E+00	1.50E+01	5.41E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Manganese-54	2.99E-01	1.76E+00	2.97E+00	1.50E+01	1.76E+00	pCi/L

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Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Manganese-54	-1.45E+00	2.05E+00	3.36E+00	1.50E+01	2.05E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Manganese-54	-1.69E+00	2.33E+00	3.70E+00	1.50E+01	2.33E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Manganese-54	-6.23E-01	1.99E+00	3.28E+00	1.50E+01	1.99E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Niobium-95	1.67E+00	2.59E+00	4.50E+00	1.50E+01	2.59E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Niobium-95	3.27E+00	3.85E+00	6.62E+00	1.50E+01	3.86E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Niobium-95	3.12E-01	3.00E+00	5.10E+00	1.50E+01	3.00E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Niobium-95	1.63E+00	2.60E+00	4.60E+00	1.50E+01	2.60E+00	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Tritium	-1.73E+01	8.81E+01	1.49E+02	2.00E+03	8.81E+01	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Tritium	-2.13E+02	2.95E+02	5.28E+02	2.00E+03	2.95E+02	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Tritium	2.24E+02	2.73E+02	4.27E+02	2.00E+03	2.76E+02	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Tritium	-2.53E+02	3.31E+02	5.82E+02	2.00E+03	3.31E+02	pCi/L
Sanitary Wastewater - SWWL(227665001) - WW	20-Mar-09	Zinc-65	-5.89E-02	3.62E+00	6.19E+00	3.00E+01	3.62E+00	pCi/L
Sanitary Wastewater - SWWL(233658003) - WW	16-Jun-09	Zinc-65	-7.25E+00	4.81E+00	7.22E+00	3.00E+01	4.81E+00	pCi/L
Sanitary Wastewater - SWWL(237882002) - WW	22-Sep-09	Zinc-65	-6.60E+00	5.62E+00	8.34E+00	3.00E+01	5.62E+00	pCi/L
Sanitary Wastewater - SWWL(242953004) - WW	1-Dec-09	Zinc-65	-1.43E+00	4.53E+00	7.27E+00	3.00E+01	4.53E+00	pCi/L

Sediment - SED

SD

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Sediment - SED(233658002) - SD	16-Jun-09	Cesium-134	7.93E+00	2.73E+01	4.98E+01	1.50E+02	2.73E+01	pCi/kg
Sediment - SED(237882001) - SD	22-Sep-09	Cesium-134	6.61E+00	2.45E+01	4.46E+01	1.50E+02	2.45E+01	pCi/kg
Sediment - SED(233658002) - SD	16-Jun-09	Cesium-137	2.42E+00	2.28E+01	3.97E+01	1.80E+02	2.28E+01	pCi/kg
Sediment - SED(237882001) - SD	22-Sep-09	Cesium-137	3.00E+01	2.20E+01	4.33E+01	1.80E+02	2.20E+01	pCi/kg
Sediment - SED(233658002) - SD	16-Jun-09	Potassium-40	6.80E+03	9.23E+02	2.92E+02		9.23E+02	pCi/kg
Sediment - SED(237882001) - SD	22-Sep-09	Potassium-40	7.04E+03	9.49E+02	2.72E+02		9.49E+02	pCi/kg

South Haven Raw Water - SHR

DW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
South Haven Raw Water - SHR(224265003) - DW	1-Feb-09	BETA	2.50E+00	2.28E+00	3.40E+00	4.00E+00	2.34E+00	pCi/L
South Haven Raw Water - SHR(225826003) - DW	1-Mar-09	BETA	3.35E+00	2.03E+00	2.89E+00	4.00E+00	2.10E+00	pCi/L
South Haven Raw Water - SHR(227634003) - DW	1-Apr-09	BETA	5.89E+00	1.35E+00	2.01E+00	4.00E+00	1.78E+00	pCi/L
South Haven Raw Water - SHR(230005003) - DW	1-May-09	BETA	2.51E+00	2.31E+00	3.57E+00	4.00E+00	2.34E+00	pCi/L
South Haven Raw Water - SHR(231263003) - DW	1-Jun-09	BETA	2.90E+00	1.73E+00	2.26E+00	4.00E+00	1.79E+00	pCi/L
South Haven Raw Water - SHR(233662003) - DW	1-Jul-09	BETA	4.12E+00	2.38E+00	2.93E+00	4.00E+00	2.47E+00	pCi/L
South Haven Raw Water - SHR(235153003) - DW	1-Aug-09	BETA	1.75E+00	2.64E+00	4.05E+00	4.00E+00	2.65E+00	pCi/L
South Haven Raw Water - SHR(237161003) - DW	1-Sep-09	BETA	1.57E+00	1.74E+00	2.37E+00	4.00E+00	1.76E+00	pCi/L
South Haven Raw Water - SHR(238868003) - DW	1-Oct-09	BETA	3.55E-01	1.78E+00	2.85E+00	4.00E+00	1.78E+00	pCi/L
South Haven Raw Water - SHR(240717003) - DW	1-Nov-09	BETA	3.56E-01	2.15E+00	3.58E+00	4.00E+00	2.16E+00	pCi/L
South Haven Raw Water - SHR(242953002) - DW	1-Dec-09	BETA	2.15E+00	1.80E+00	2.92E+00	4.00E+00	1.84E+00	pCi/L
South Haven Raw Water - SHR(224265003) - DW	1-Feb-09	Tritium	1.29E+02	2.34E+02	3.69E+02	2.00E+03	2.36E+02	pCi/L
South Haven Raw Water - SHR(225826003) - DW	1-Mar-09	Tritium	-1.15E+02	3.05E+02	5.30E+02	2.00E+03	3.05E+02	pCi/L
South Haven Raw Water - SHR(227634003) - DW	1-Apr-09	Tritium	1.54E+01	8.92E+01	1.49E+02	2.00E+03	8.92E+01	pCi/L
South Haven Raw Water - SHR(230005003) - DW	1-May-09	Tritium	-1.85E+02	2.69E+02	4.76E+02	2.00E+03	2.69E+02	pCi/L
South Haven Raw Water - SHR(231263003) - DW	1-Jun-09	Tritium	-5.57E+01	2.85E+02	4.85E+02	2.00E+03	2.85E+02	pCi/L

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South Haven Raw Water - SHR(233662003) - DW	1-Jul-09	Tritium	-3.06E+02	2.89E+02	5.34E+02	2.00E+03	2.89E+02	pCi/L
South Haven Raw Water - SHR(235153003) - DW	1-Aug-09	Tritium	1.64E+02	2.52E+02	3.92E+02	2.00E+03	2.54E+02	pCi/L
South Haven Raw Water - SHR(237161003) - DW	1-Sep-09	Tritium	7.83E+01	2.91E+02	4.79E+02	2.00E+03	2.91E+02	pCi/L
South Haven Raw Water - SHR(238868003) - DW	1-Oct-09	Tritium	-6.07E+01	2.55E+02	4.39E+02	2.00E+03	2.55E+02	pCi/L
South Haven Raw Water - SHR(240717003) - DW	1-Nov-09	Tritium	1.32E+02	3.52E+02	5.73E+02	2.00E+03	3.53E+02	pCi/L
South Haven Raw Water - SHR(242953002) - DW	1-Dec-09	Tritium	-1.20E+02	2.84E+02	4.97E+02	2.00E+03	2.84E+02	pCi/L

Stormwater affected areas - STMA

SW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma.TPU	Units
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Barium-140	1.59E+01	1.53E+01	2.53E+01	1.50E+01	1.53E+01	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Barium-140	-3.85E+00	2.84E+01	4.86E+01	1.50E+01	2.84E+01	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Barium-140	1.73E+01	5.00E+01	8.25E+01	1.50E+01	5.00E+01	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Cesium-134	1.44E-01	2.17E+00	3.58E+00	1.50E+01	2.17E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Cesium-134	1.60E+00	2.62E+00	4.44E+00	1.50E+01	2.62E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Cesium-134	1.69E+00	2.23E+00	3.88E+00	1.50E+01	2.23E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Cesium-137	-1.46E+00	1.76E+00	2.78E+00	1.80E+01	1.76E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Cesium-137	5.28E-01	2.09E+00	3.60E+00	1.80E+01	2.09E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Cesium-137	2.97E+00	1.96E+00	3.54E+00	1.80E+01	1.96E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Cobalt-58	-5.55E-01	1.94E+00	3.12E+00	1.50E+01	1.94E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Cobalt-58	-5.90E-01	2.92E+00	4.18E+00	1.50E+01	2.92E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Cobalt-58	-2.34E+00	2.62E+00	4.15E+00	1.50E+01	2.62E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Cobalt-60	8.00E-01	2.01E+00	3.45E+00	1.50E+01	2.01E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Cobalt-60	5.67E-01	2.19E+00	3.80E+00	1.50E+01	2.19E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Cobalt-60	5.48E-01	2.01E+00	3.44E+00	1.50E+01	2.01E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Iron-59	2.12E+00	4.23E+00	7.37E+00	3.00E+01	4.23E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Iron-59	-3.48E+00	5.72E+00	8.98E+00	3.00E+01	5.72E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Iron-59	-1.00E+00	6.44E+00	1.09E+01	3.00E+01	6.44E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Lanthanum-140	8.70E-01	5.18E+00	8.69E+00	1.50E+01	5.18E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Lanthanum-140	-2.34E+00	1.07E+01	1.76E+01	1.50E+01	1.07E+01	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Lanthanum-140	-8.40E+00	1.71E+01	2.82E+01	1.50E+01	1.71E+01	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Manganese-54	8.07E-01	1.91E+00	3.34E+00	1.50E+01	1.91E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Manganese-54	-2.76E-01	2.07E+00	3.44E+00	1.50E+01	2.07E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Manganese-54	-7.93E-01	2.05E+00	3.35E+00	1.50E+01	2.05E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Niobium-95	1.09E+00	2.37E+00	4.00E+00	1.50E+01	2.37E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Niobium-95	-3.19E+00	4.84E+00	5.39E+00	1.50E+01	4.85E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Niobium-95	2.59E+00	6.87E+00	7.56E+00	1.50E+01	6.87E+00	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Tritium	-9.52E+00	8.76E+01	1.48E+02	2.00E+03	8.76E+01	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Tritium	-3.03E+02	2.86E+02	5.28E+02	2.00E+03	2.86E+02	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Tritium	1.02E+02	3.25E+02	5.31E+02	2.00E+03	3.26E+02	pCi/L
Stormwater affected areas - STMA(227665002) - SW	29-Mar-09	Zinc-65	6.69E-01	3.95E+00	6.74E+00	3.00E+01	3.95E+00	pCi/L
Stormwater affected areas - STMA(233658001) - SW	23-Jun-09	Zinc-65	-5.91E+00	4.84E+00	7.24E+00	3.00E+01	4.84E+00	pCi/L
Stormwater affected areas - STMA(245006005) - SW	14-Dec-09	Zinc-65	-5.51E+00	4.87E+00	7.74E+00	3.00E+01	4.87E+00	pCi/L

Stormwater non-affected areas - STMN

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SW

Sample Name	Date Collected	Nuclide	Result	2 Sigma Uncert	MDC	LLD	2 Sigma TPU	Units
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Barium-140	-1.12E+01	1.40E+01	2.19E+01	1.50E+01	1.40E+01	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Cesium-134	-5.18E-01	2.21E+00	3.60E+00	1.50E+01	2.21E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Cesium-137	9.73E-02	1.81E+00	3.03E+00	1.80E+01	1.81E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Cobalt-58	-1.76E+00	1.98E+00	3.09E+00	1.50E+01	1.98E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Cobalt-60	2.42E+00	1.88E+00	3.42E+00	1.50E+01	1.88E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Iron-59	-4.37E-01	4.06E+00	6.84E+00	3.00E+01	4.06E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Lanthanum-140	-1.41E+00	4.94E+00	7.99E+00	1.50E+01	4.94E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Manganese-54	1.35E-01	1.80E+00	2.98E+00	1.50E+01	1.80E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Niobium-95	6.72E-01	2.38E+00	3.99E+00	1.50E+01	2.38E+00	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Tritium	-2.51E+01	8.83E+01	1.50E+02	2.00E+03	8.83E+01	pCi/L
Stormwater non-affected areas - STMN(227665003) - SW	29-Mar-09	Zinc-65	-2.31E+00	3.94E+00	6.46E+00	3.00E+01	3.94E+00	pCi/L

ATTACHMENT 5

**GEL LABORATORIES, LLC
INTERLABORATORY COMPARISON PROGRAM RESULTS**

5 Pages Follow



2009 INTERLABORATORY COMPARISON PROGRAM REPORT

In accordance with US Nuclear Regulatory Commission requirements, GEL Laboratories, LLC (GEL) participates in an Interlaboratory Comparison Programs (ICP) that satisfies the requirements of both Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979 and Regulatory Guide 4.15, Revision 2, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) - Effluent Streams and the Environment", July, 2007. Both guides indicate the ICP is to be conducted with the Environmental Protection Agency (EPA) Environmental Radioactivity Laboratory Intercomparison Studies (Cross-check) Program or an equivalent program, and the ICP should include all sample medium/radionuclide combinations that are offered by the EPA and included in the REMP.

Intercomparison samples were obtained from Eckert & Zeigler Analytics of Atlanta, Environmental Resource Associates of Arvada, Colorado and the Mixed Analyte Performance Evaluation Program (MAPEP). Each provider has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third party blind testing program which provides a means to ensure independent checks are performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. The providers supply the crosscheck samples to GEL. Upon receipt, the laboratory performs the analyses in a normal manner. The results are then reported to the provider for evaluation.

The samples offered by ICP providers and included in GEL's analyses are gamma isotopic analyses of an air filter, milk, water, soil and vegetation, Sr-89/90 in Milk and water and I-131 in cartridges. The accuracy of each result reported to Analytics, Inc is measured by the ratio of GEL's result to the known value. Accuracy for all other results is based on statistically derived acceptance ranges calculated by the providers. An investigation is undertaken whenever the ratio or reported result fell outside of the acceptance range.

A summary of GEL's results is provided in the tables below for the required sample matrix types and isotopic distribution. Delineated in the table are: the Sample Number or Study ID; Analysis quarter and year; sample media; specific radionuclide; its unit; its result; the known values supplied by the providers; GEL's ratio to the known value or acceptance criteria provided by the provider; evaluation criteria.

GEL analyzed 31 samples for 151 parameters in 2009. All results except one met the acceptance criteria and are discussed below.

- The root cause of the Sr-90 failures was determined to be a batch quality control issue. The carrier yield for the second separation was greater than 100%. The elevated yield caused the Sr-90 result to be biased low. Even though the yield fell within its acceptance range, if

problem solved

adjusted to reflect recoveries typically observed in this procedure, the sample results would be within the acceptance range.

Sample Number	Quarter / Year	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
E6582-278	1 st / 2009	Cartridge	pCi	I-131	7.77E+01	7.94E+01	0.98	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Ce-141	9.78E+01	9.49E+01	1.03	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Co-58	1.23E+02	1.19E+02	1.03	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Co-60	1.50E+02	1.42E+02	1.05	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Cr-51	2.97E+02	3.05E+02	0.97	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Cs-134	9.06E+01	9.37E+01	0.97	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Cs-137	1.16E+02	1.11E+02	1.04	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Fe-59	1.16E+02	7.61E+00	1.16	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	I-131	7.97E+01	7.93E+01	1.01	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Mn-54	1.33E+02	1.28E+02	1.04	Acceptable
E6584-278	1 st / 2009	Milk	pCi/L	Zn-65	1.72E+02	1.56E+02	1.1	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Ce-141	1.22E+02	1.20E+02	1.02	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Co-58	1.59E+02	1.51E+02	1.05	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Co-60	1.92E+02	1.80E+02	1.06	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Cr-51	3.92E+02	3.87E+02	1.01	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Cs-134	1.19E+02	1.19E+02	1.00	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Cs-137	1.44E+02	1.41E+02	1.02	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Fe-59	1.28E+02	1.27E+02	1.01	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	I-131	7.55E+01	6.90E+01	1.09	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Mn-54	1.80E+02	1.62E+02	1.11	Acceptable
E6585-278	1 st / 2009	Water	pCi/L	Zn-65	2.24E+02	1.97E+02	1.13	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	Gross Alpha	51.3	52.3	27.3 - 65.5	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	Gross Beta	41.9	46.1	31.0 - 53.3	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	H-3	3760.0	4230	3610 - 4660	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	I-131	25.1	22.2	18.4 - 26.5	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	Sr-89	72.8	65	52.7 - 73.0	Acceptable
RAD - 76	1 st / 2009	Water	pCi/L	Sr-90	36.5	41.9	30.8 - 48.1	Acceptable
E6729-278	2 nd / 2009	Cartridge	pCi	I-131	9.27E+01	9.55E+01	0.97	Acceptable
E6730-278	2 nd / 2009	Milk	pCi/L	Sr-89	8.51E+01	1.12E+02	0.76	Acceptable
E6730-278	2 nd / 2009	Milk	pCi/L	Sr-90	1.09E+01	1.67E+01	0.65	Not Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Ce-141	2.84E+02	2.84E+02	1	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Co-58	9.48E+01	9.19E+01	1.03	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Co-60	3.15E+02	3.12E+02	1.01	Acceptable

E6731-278	2 nd / 2009	Milk	pCi/L	Cr-51	4.04E+02	4.00E+02	1.01	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Cs-134	1.58E+02	1.66E+02	0.95	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Cs-137	1.92E+02	1.92E+02	1	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Fe-59	1.23E+02	1.22E+02	1.01	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	I-131	8.98E+01	1.02E+02	0.88	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Mn-54	1.42E+02	1.37E+02	1.04	Acceptable
E6731-278	2 nd / 2009	Milk	pCi/L	Zn-65	1.79E+02	1.75E+02	1.02	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Ce-141	2.29E+02	2.16E+02	1.06	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Co-58	7.21E+01	6.98E+01	1.03	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Co-60	2.42E+02	2.37E+02	1.02	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Cr-51	3.11E+02	3.04E+02	1.02	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Cs-134	1.37E+02	1.26E+02	1.09	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Cs-137	1.51E+02	1.46E+02	1.04	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Fe-59	9.04E+01	9.29E+01	0.97	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	I-131	8.52E+01	8.83E+01	0.97	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Mn-54	1.07E+02	1.04E+02	1.03	Acceptable
E6732-278	2 nd / 2009	Water	pCi/L	Zn-65	1.38E+02	1.33E+02	1.04	Acceptable
MAPEP 09-GrF20	2 nd / 2009	Filter	Bq	Gross Alpha	0.069	0.35	>0.0 - 0.696	Acceptable
MAPEP 09-GrF20	2 nd / 2009	Filter	Bq	Gross Beta	0.297	0.28	0.140 - 0.419	Acceptable
MAPEP 09-GrW20	2 nd / 2009	Water	Bq/L	Gross Alpha	0.506	0.64	>0.0 - 1.270	Acceptable
MAPEP 09-GrW20	2 nd / 2009	Water	Bq/L	Gross Beta	1.337	1.27	0.64 - 1.91	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Co-57	-0.30	0.00	----	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Co-60	3.6	4.113		Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Cs-134	468	467	327 - 607	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Cs-137	622	605	424 - 787	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Fe-55	844.7	983	688 - 1278	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	K-40	608.7	570	399 - 741	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Mn-54	322.3	307	215 - 399	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Ni-63	550.3	514.9	360.4 - 669.4	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Sr-90	262.33	257	180 - 334	Acceptable
MAPEP 09-MaS20	2 nd / 2009	Soil	Bq/kg	Zn-65	261	242	169 - 315	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Co-57	18.8	18.9	13.2 - 24.6	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Co-60	16.8	17.21	12.05 - 22.37	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Cs-134	21.9	22.5	15.8 - 29.3	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Cs-137	0.0	0	----	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Mn-54	15.1	14.66	10.26 - 19.06	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Ni-63	52.7	53.5	37.45 - 69.55	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Sr-90	7.43	7.21	5.05 - 9.37	Acceptable
MAPEP 09-MaW20	2 nd / 2009	Water	Bq/L	Zn-65	14.6	13.6	9.5 - 17.7	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Co-57	1.347	1.30	0.91 - 1.69	Acceptable

MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Co-60	1.413	1.22	0.85 - 1.59	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Cs-134	2.763	2.93	2.05 - 3.81	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Cs-137	1.487	1.52	1.06 - 1.98	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Mn-54	2.403	2.27	1.5896 - 2.9522	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Sr-90	0.692	0.64	0.448 - 0.832	Acceptable
MAPEP 09-RdF20	2 nd / 2009	Filter	Bq	Zn-65	1.613	1.36	0.95 - 1.77	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Co-57	2.557	2.36	1.65 - 3.07	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Co-60	-0.010	0.00	----	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Cs-134	3.430	3.40	2.38 - 4.42	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Cs-137	0.907	0.93	0.65 - 1.21	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Mn-54	2.353	2.30	1.61 - 2.99	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Sr-90	1.160	1.26	0.882 - 1.638	Acceptable
MAPEP 09-RdV20	2 nd / 2009	Vegetation	ug/sample	Zn-65	1.350	1.35	0.948 - 1.760	Acceptable
E6843-278	3 rd / 2009	Cartridge	pCi	I-131	9.54E+01	9.21E+01	1.04	Acceptable
E6844-278	3 rd / 2009	Milk	pCi/L	Sr-89	1.19E+02	1.07E+02	1.12	Acceptable
E6844-278	3 rd / 2009	Milk	pCi/L	Sr-90	1.68E+01	1.88E+01	0.89	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Ce-141	2.83E+02	2.75E+02	1.03	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Co-58	1.04E+02	9.94E+01	1.05	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Co-60	1.58E+02	1.60E+02	0.99	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Cr-51	2.43E+02	2.21E+02	1.1	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Cs-134	1.23E+02	1.23E+02	1.00	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Cs-137	1.92E+02	1.85E+02	1.04	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Fe-59	1.64E+02	1.47E+02	1.11	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	I-131	1.01E+02	9.86E+01	1.02	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Mn-54	2.11E+02	2.06E+02	1.02	Acceptable
E6845-278	3 rd / 2009	Milk	pCi/L	Zn-65	2.24E+02	2.04E+02	1.1	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Ce-141	2.72E+02	2.64E+02	1.03	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Co-58	9.65E+01	9.54E+01	1.01	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Co-60	1.56E+02	1.54E+02	1.01	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Cr-51	2.21E+02	2.12E+02	1.04	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Cs-134	1.18E+02	1.18E+02	1.00	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Cs-137	1.86E+02	1.77E+02	1.05	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Fe-59	1.48E+02	1.41E+02	1.05	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	I-131	1.02E+02	9.84E+01	1.04	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Mn-54	2.11E+02	1.98E+02	1.07	Acceptable
E6846-278	3 rd / 2009	Water	pCi/L	Zn-65	2.19E+02	1.95E+02	1.12	Acceptable
RAD - 78	3 rd / 2009	Water	pCi/L	Gross Alpha	43.8	55.3	28.9 - 69.0	Acceptable
RAD - 78	3 rd / 2009	Water	pCi/L	Gross Beta	53.6	64.7	44.8 - 71.3	Acceptable
RAD - 78	3 rd / 2009	Water	pCi/L	H-3	9440.0	10000	8690 - 11000	Acceptable

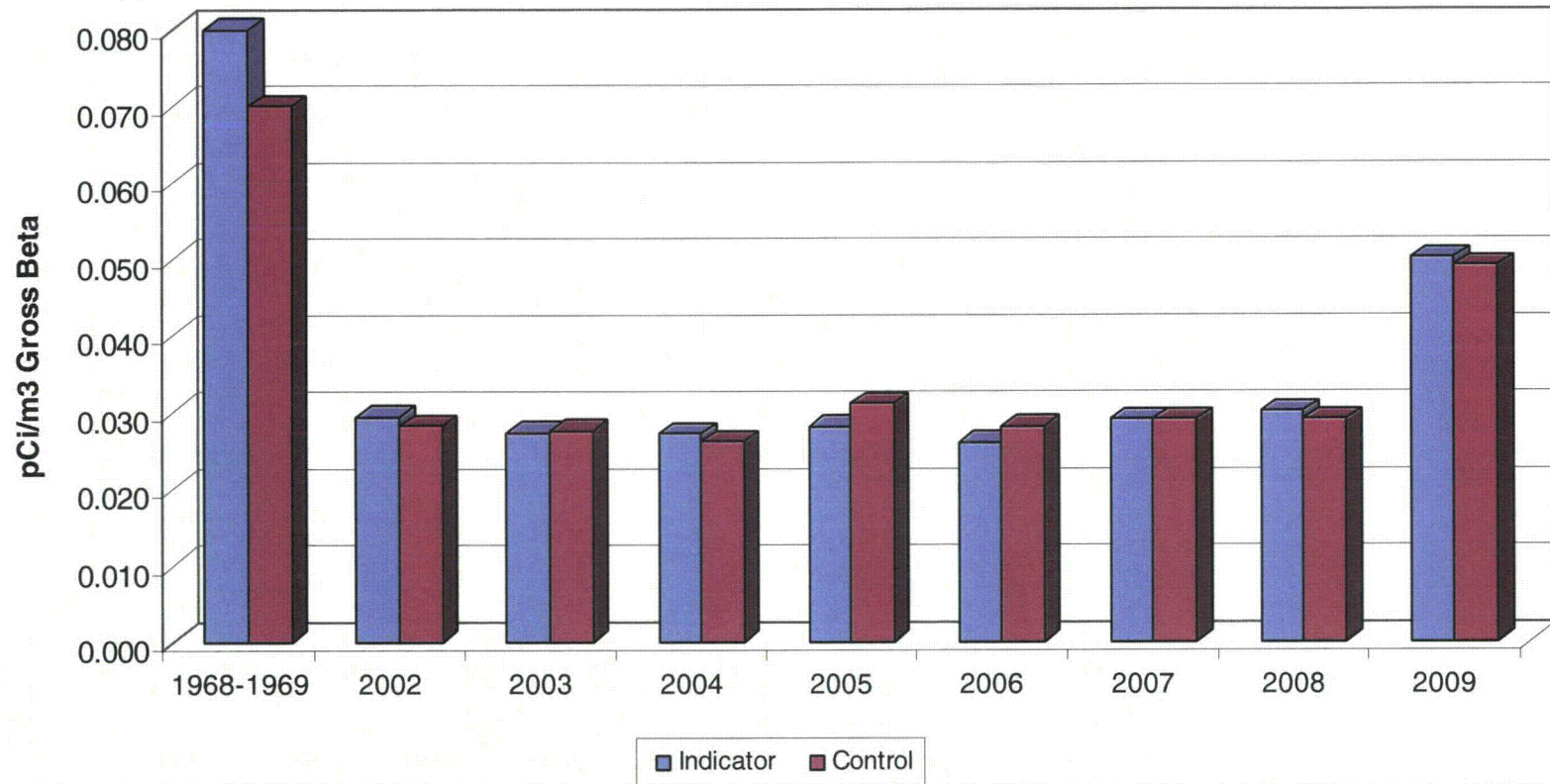
RAD - 78	3 rd / 2009	Water	pCi/L	I-131	28.4	26.3	21.8 - 31.0	Acceptable
RAD - 78	3 rd / 2009	Water	pCi/L	Sr-89	59.6	59.1	47.4 - 66.9	Acceptable
RAD - 78	3 rd / 2009	Water	pCi/L	Sr-90	33.7	37.4	27.4 - 43.1	Acceptable
MAPEP 09-GrF21	4 th / 2009	Filter	Bq	Gross Alpha	0.069	0.35	>0.0 - 0.696	Acceptable
MAPEP 09-GrF21	4 th / 2009	Filter	Bq	Gross Beta	0.297	0.28	0.140 - 0.419	Acceptable
MAPEP 09-GrW21	4 th / 2009	Water	Bq/L	Gross Alpha	0.982	1.05	>0.0 - 2.094	Acceptable
MAPEP 09-GrW21	4 th / 2009	Water	Bq/L	Gross Beta	7.277	7.53	3.77 - 11.30	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Co-57	572.30	586.00	410 - 762	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Co-60	332.3	327.000	229 - 425	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Cs-134	0	0	----	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Cs-137	683	669	468 - 870	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Fe-55	810.0	796	557 - 1035	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	K-40	401.3	375	263 - 488	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Mn-54	834.7	796	557 - 1035	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Ni-63	640.0	680.0	476 - 884	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Sr-90	423.30	455	319 - 592	Acceptable
MAPEP 09-MaS21	4 th / 2009	Soil	Bq/kg	Zn-65	1293	1178	825 - 1531	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Co-57	35.7	36.6	25.6 - 47.6	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Co-60	15.3	15.4	10.8 - 20.0	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Cs-134	31.6	32.2	22.5 - 41.9	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Cs-137	40.4	41.2	28.8 - 53.6	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Mn-54	0.07	0.00	----	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Ni-63	45.8	44.2	30.9 - 57.5	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Sr-90	16.40	12.99	9.09 - 16.89	Acceptable
MAPEP 09-MaW21	4 th / 2009	Water	Bq/L	Zn-65	28.9	26.9	18.8 - 35.0	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Co-57	6.730	6.48	4.54 - 8.42	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Co-60	1.127	1.03	0.72 - 1.34	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Cs-134	0.034	0.00	----	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Cs-137	1.397	1.40	0.98 - 1.82	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Mn-54	5.697	5.49	3.84 - 7.14	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Sr-90	0.778	0.84	0.585 - 1.086	Acceptable
MAPEP 09-RdF21	4 th / 2009	Filter	Bq	Zn-65	4.350	3.93	2.75 - 5.11	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Co-57	8.333	8.00	5.6 - 10.4	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Co-60	2.637	2.57	1.80 - 3.34	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Cs-134	-0.014	0.00	----	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Cs-137	2.443	2.43	1.70 - 3.16	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Mn-54	8.407	7.90	5.5 - 10.3	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Sr-90	1.577	1.78	1.25 - 2.31	Acceptable
MAPEP 09-RdV21	4 th / 2009	Vegetation	ug/sample	Zn-65	-0.029	0.00	----	Acceptable

ATTACHMENT 6

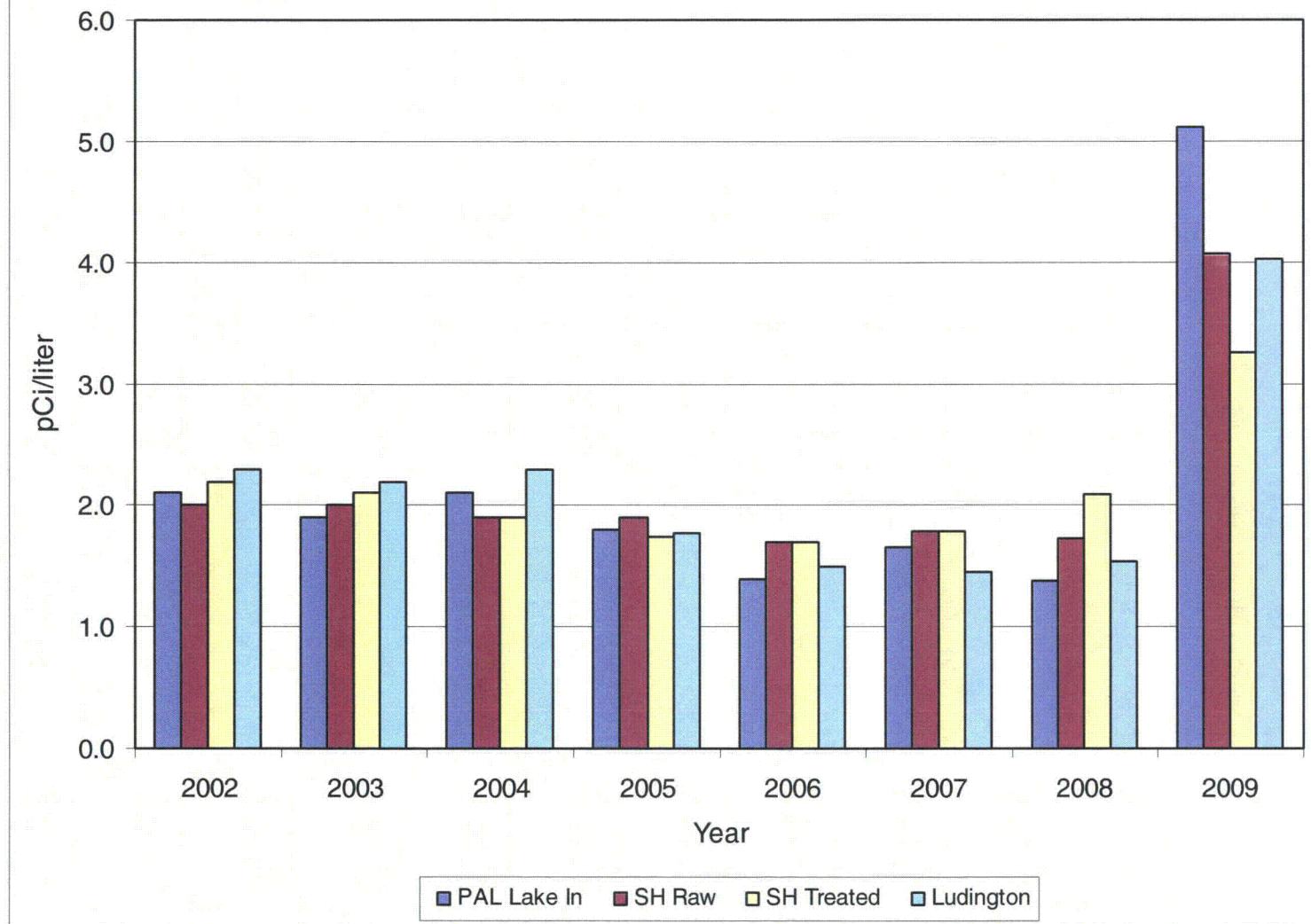
DATA GRAPHS

3 Pages Follow

Palisades Air Particulate
Gross Beta
Pre-Operational vs. Operational



Lake Water Gross Beta 2002 to 2009



Palisades Quarterly Thermoluminescent Dosimeters
Pre-Op and 2002-2009

