		Site: G201
	CONDITION REPORT	07-30031
T	E: DOCUMENTATION OF DAVIS-BESSE GROUNDWATER TRITIUM RESULTS FOR YEAR 2007	
	DISCOVERY DATE TIME EVENT DATE TIME SYSTEM / ASSET#	
	EQUIPMENT DESCRIPTION New and Construction Era Groundwater Wells	
	System FLOC	AP-913:
	DESCRIPTION OF CONDITION and PROBABLE CAUSE (if known) Summarize any attachments. Id where, why, how.	entify what, when,
;	Following the guidance provided in the new NEI Groundwater Protection Initiative, D began sampling construction era groundwater wells in June, 2007. This Condition R being written in order to document results of Groundwater Monitoring at Davis-Besse These results are attached.	avis-Besse eport (CR) is e during 2007.
	Three rounds of sampling occurred between June and October. The first and secon samples were collected from existing construction-era monitoring wells. The third see was collected from both existing wells and newly drilled wells. No gamma activity we any of the wells, however, low levels of Tritium were found in several well locations existing the Protected Area. Results of the testing indicated Tritium present at concern between a low level of less than detectable (~200 pCi/liter) to a high of 7734 pCi/liter limit for Tritium in groundwater is 20,000 pCi/liter if the water is used for drinking pur 30,000 pCi/liter for non-drinking water. All of the samples were taken on site properties amples taken offsite in the vicinity of the plant continue to show no detectable activity.	d round of et of samples as detected in east of the plant trations ranging . The allowable poses, and y; groundwater ty.
	A new NEI Groundwater Protection Initiative was launched this year, following radioa contamination of groundwater near several non-FENOC nuclear plants. As a result all nuclear plants were to begin groundwater monitoring, with courtesy notifications to State, County, and local officials if any groundwater sample result showed a Tritium above 2,000 pCi/liter. During all three rounds of sampling, at least one Davis-Besse Tritium above 2,000 pCi/liter. Informal notifications to state, county and local officials three times ¹ .	ictive of this initiative, o be made to concentration well showed s were made all
	Results from the year 2007 sampling will be listed in the Annual Radiological Enviror Radiological Effluent Tech Spec Report, which will be published prior to 5/1/08. This previous, related CRs, those being CR07-23488 and CR07-25151.	ormental and CR has two
	"The latest samples, collected September 24 through 27, and October 1 through 10, validation samples of previously sampled sighting wells and the first sampling of the groundwater monitoring wells. The resamples of wells with previously elevated tritiu concentrations reflected a significant reduction. The new groundwater monitoring we tritium concentrations ranging from below detection to approximately 500 pCi/l with t well MW105A adjacent to sighting well MW31, which had a tritium concentration of 1 were below the administrative notification value of 2000 pCi." Informal notifications state, county and local officials on November 8 and 9, 2007 after a sample result over was received. This Condition Report is written for trending purposes. No other action necessary.	included newly installed m ells showed he exception of 830 pCi/I. All were made to er 2,000 pCi/liter ns are
	QUALITY ORGANIZATION USE ONLY IDENTIFIED BY (Check one) Self-Revealed	ATTACHMENTS
	Quality Org. Follow-up Yes No Supervision/Management External Oversight	Yes No

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Page 1 of 2

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NOP-L	P-2001-01)		Site:	G201
		CONDIT		REPO	२ 1	Г			R Number 17-30031
TITL	E: DOCUMENTATIO	ON OF DAVIS-BESSE	GROUNDW	ATER TRITIUM	RES	SULTS FOR YEAR	2007		
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	AC	DBCH	ZATION	12/12/2007	R E G	Yes VNO		R No.	
	TREND CODES Process / Activity / 0 OP2 4500	C Cause Code(s) (If NA	omp Type Cause T o	/ ID Cause r W) Org	U L A T	REPORTABILITY Wolf, G	REVIEW	/ER	
MRB					O R Y	DATE		11/14/07	
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Environmental, Inc. Midwest Laboratory an Allegheny Technologies Co.

700 Landwehr Road • Northbrook, L 60062-2310 ph. (847) 564-0700 • fax (847) 584-4517

Mr. Al Percival	LABORATORY REPORT NO .:	8003-100-363
FirstEnergy Corporation	DATE:	07-12-07
Mail Stop 1041	SAMPLES RECEIVED:	07-03-07
5501 North State Route 2	PURCHASE ORDER NO.:	
Oak Harbor, Ohio 43449		

Dear Mr/Percival

Enclosed are results of the analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

Should you have any questions or other concerns, please do not hesitate to call.

ely, S.A. Coorlim,

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Quality Assurance

Bronia Grob, M.S. Laboratory Manager

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Sample Location Date Collected Time Collected	MW-12S 06-14-07 10:07	MW-18S 06-14-07 12:30	MW-18D 06-14-07 14:27	DBD-01 06-14-07 14:27	MW-20S 6/25/2007 10:16
Lab Code	TXW-4117	TXW-4118	TXW-4119	TXW-4120	TXW-4121
Isotope		C	oncentration (pCi/l	L) ·	
H-3 ^a	657 ± 118	277 ± 106	204 ± 103	764 ± 121	255 ± 104
Mn-54	< 2.3	< 1.8	< 1.7	< 3.6	< 3.0
Fe-59	< 7.7	< 4.7	< 7.9	< 6.8	< 10.2
Co-58	< 2.7	< 3.1	< 2.1	< 2.2	< 6.4
Co-60	< 3.0	< 2.6	< 2.4	< 2.5	< 3.6
Zn-65	< 5.0	< 3.9	< 5.2	< 3.0	< 5.5
Zr-Nb-95	< 6.2	< 3.2	< 4.2	< 5.0	< 6.9
Cs-134	< 3.1	< 3.5	< 3.2	< 3.3	< 4.3
Cs-137	< 3.4	< 1.8	< 3.6	< 2.3	< 7.1
Ba-La-140	< 8.9	_ < 5.1	< 6.9	< 7.8	< 6.2
				• , •	
Sample Location	MW-20D 6/25/2007	MW-32S 6/25/2007	DBD-02 6/25/2007	MW-32D 6/26/2007	MW-15S 6/26/2007
Time Collected	12:50	12:00	14:58	9:50	12:00
Lab Code	TXW-4122	TXW-4123	TXW-4124	TXW-4125	TXW-4126
Isotope		C	oncentration (pCi/l	_)	
H-3	328 ± 107	5838 ± 237	279 ± 105	466 ± 112	375 ± 95
Mn-54	< 3.2	< 2.8	< 3.3	< 2.4	< 2.7
Fe-59	< 9.5	< 11.0	< 11.3	< 4.2	< 5.5
Co-58	< 3.2	< 3.9	< 2.6	< 1.7	< 3.5

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

The error given is the probable counting error at the 95% confidence level.

< 3.3

< 6.2

< 6.2

< 5.2

< 6.1

< 7.8

Co-60

Zn-65

Zr-Nb-95

Cs-134

Cs-137

Ba-La-140

Less than (<), value is based on a 4.66 sigma counting error for the background sample.

< 2.8

< 4.0

< 4.9

< 4.7

< 3.3

< 11.2

< 4.1

< 8.5

< 3.1

< 5.4

< 14.2

< 3.9

< 2.4

< 5.7

< 2.7

< 2.6,

< 3.4

< 3.3

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< 2.8

< 3.8

< 4.4

< 3.7

< 3.8

< 5.2

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Sample Location	MW-15D	MW-30S	MW-33S	MW-33D	
Date Collected	06-26-07	06-27-07	06-27-07	06-27-07	
Time Collected	14:45	10:00	11:55	13:44	· ,
Lab Code	TXW-4127	TXW-4128	TXW-4129	TXW-4130	
Isotope		Ċ	oncentration (pCi/	L)	
H-3	704 ± 108	1307 ± 128	2287 ± 154	2975 ± 171	
Mn-54	< 3.6	< 3.0	< 3.0	< 2.7	
Fe-59	< 9.5	< 7.9	< 14.7	< 5.6	•
Co-58	< 3.6	< 3.8	< 5.1	< 2.8	
Co-60	< 3.8	< 2.7	< 4.1	< 2.8	
Zn . 65	< 5.1	< 1.6	< 4.3	< 4.7	
Zr-Nb-95	< 4.7	< 2.8	< 2.8	< 2.8	
Cs-134	< 5.6	< 2.7	< 2.0	< 2.7	λ.
Cs-137	< 3.6	< 1.7	< 3.0	< 3.9	
Ba-La-140	< 11.4	< 5.0	< 10.6	< 7.3	

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

The error given is the probable counting error at the 95% confidence level. Less than (<), value is based on a 4.66 sigma counting error for the background sample. - Environmental, Inc. Midwest Laboratory an Allegheny Technologies Co.

700 Landwehr Road • Northbrook, IL 60062-2310 ph. (847) 564-0700 • fax (847) 564-4517

Mr. Al Percival)LABORATORY REPORT NO.:8003-100-362FirstEnergy CorporationDATE:07-10-07Mail Stop 1041SAMPLES RECEIVED:06-22-075501 North State Route 2PURCHASE ORDER NO.:0Oak Harbor, Ohio 43449Oak Harbor, Ohio 434490

Dear Mr. Percival

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Enclosed are results of the analyses for tritium and gamma-emitting isotopes in five ground water samples, one matrix spike and one matrix spike duplicate.

Should you have any questions or other concerns, please do not hesitate to call.

Sincerlely, S.A. Coorlim,

Quality Assurance

Bronia S. Grot poratory Manager 12

 Table 1. Results of analyses for tritium and gamma-emitting isotopes in five ground water samples, matrix spike and matrix spike duplicate.

Sample Location Date Collected Time Collected	MW-1S 06-12-07 10:49	MW-1D 06-12-07 13:09	MW-26S 6/13/2007 10:17	MW-26D 6/13/2007 13:13	MS01-MW-26D 6/13/2007 13:13
Lab Code	TXW-3910	TXW-3911	TXW-3912	TXW-3913	TXW-3914 ª
Isotope			Concentration (pCi/L)		
H-3	< 169	< 169	341 ± 101	< 169	5000 ± 208
Mn-54	< 2.1	< 3.3	< 4.1	< 3.3	< 2.0
Fe-59	< 6.4	< 6.2	< 9.0	< 6.1	< 4.1
Co-58	< 3.1	< 2.7	< 5.7	< 3.1	< 2.3
Co-60	< 3.1	< 2.3	< 3.1	< 2.5	< 3.5
Zn-65	< 3.2	< 5.9	< 7.5	< 5.2	< 5.6
Zr-Nb-95	< 2.5	< 3.4	< 5.9	< 3.8	< 2.9
Cs-134	< 2.7	< 3.3	< 3.6	< 2.6	62.9 ± 4.5
Cs-137	< 2.0	< 3.3	, < 2.9	< 2.9	64.2 ± 6.9
Ba-La-140	< 3.9	< 4.5	< 5.3	< 3.3	< 3.9
Sample Location Date Collected	WSD01-MW-26E 6/13/2007	MW-7S 06-13-07			
Time Collected	13:13	14:53		÷	
Lab Code	TXW-3915 ^ª	TXW-3916			
Isotope			Concentration (pCi/L)	· · · · · ·	
พว	5055 + 209	426 ± 104	<i>.</i> .		
71-5	0000 1 200				
Mn-54	< 3.1	< 3.7			
Mn-54 Fe-59	 < 3.1 < 6.1 	< 3.7			(
Mn-54 Fe-59	< 3.1 < 6.1 < 2.9	< 3.7 < 5.7 < 2.0			(
Mn-54 Fe-59 Co-58	< 3.1 < 6.1 < 2.9 < 1.4	< 3.7 < 5.7 < 2.0 < 2 7		• •	(
Mn-54 Fe-59 Co-58 Co-60 Zn-65	< 3.1 < 6.1 < 2.9 < 1.4 < 5.9	< 3.7 < 5.7 < 2.0 < 2.7 < 2.7		• •	, , , ,
Mn-54 Fe-59 Co-58 Co-60 Zn-65 Zr-Nb-95	< 3.1 < 6.1 < 2.9 < 1.4 < 5.9 < 6.3	< 3.7 < 5.7 < 2.0 < 2.7 < 2.7 < 2.7	· · · · · · · · · · · · · · · · · · ·	• • •	, (,
Mn-54 Fe-59 Co-58 Co-60 Zn-65 Zr-Nb-95 Co 134	 < 3.1 < 6.1 < 2.9 < 1.4 < 5.9 < 6.3 < 59 1 + 4.5 	< 3.7 < 5.7 < 2.0 < 2.7 < 2.7 < 4.3 < 2.9	 		(
Mn-54 Fe-59 Co-58 Co-60 Zn-65 Zr-Nb-95 Cs-134 Cs-137	<pre>< 3.1 < 6.1 < 2.9 < 1.4 < 5.9 < 6.3 59.1 ± 4.5 70.0 ± 6.9</pre>	< 3.7 < 5.7 < 2.0 < 2.7 < 2.7 < 4.3 < 2.9			, (
Mn-54 Fe-59 Co-58 Co-60 Zn-65 Zr-Nb-95 Cs-134 Cs-137 Pa Lo 140	<pre>< 3.1 < 6.1 < 2.9 < 1.4 < 5.9 < 6.3 59.1 ± 4.5 70.0 ± 6.9 < 5.9</pre>	< 3.7 < 5.7 < 2.0 < 2.7 < 2.7 < 4.3 < 2.9 < 3.5	 		· · · · · · · · · · · · · · · · · · ·

The error given is the probable counting error at the 95% confidence level.

^a Known spike activity (pCi/L):	Cs-134.59.3	Cs-137.66.3	H-3, 5639	

Environmental, Inc. Midwest Laboratory en Allegheny Technologies Co.

700 Landwehr Road • Northbrook, IL 80082-2310 ph. (847) 584-0700 • tax (847) 584-4517

Mr (AI Percival) FirstEnergy Corporation Mail Stop 1041 5501 North State Route 2 Oak Harbor, Ohio 43449

LABORATORY REPORT NO .:	8003-100-370
DATE:	11-06-07
SAMPLES RECEIVED:	10-06-07
PURCHASE ORDER NO.:	

Dear Mr. Percival

12

Enclosed are results of the analyses for tritium and gamma-emitting isotopes in twenty-two ground water samples.

Should you have any questions or other concerns, please do not hesitate to call.

Si erely

S.A. Coorlim, Quality Assurance

Bronia Grob M. S. Laboratory Manager

Table 1.	Results	of analyses fo	r tritium and	gamma-emitting	isotopes in	fourteen gr	ound water:	samples.
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		·····			· · · · · · · · · · · · · · · · · · ·
Sample Location Date Collected Time Collected	MW-102B 9/27/2007 10:59	MW-102C 9/27/2007 15:05	MW-100A 9/24/2007 14:50	MS02MW100A 9/24/2007 14:50	MSD02MW100A 9/24/2007 14:50
Lab Code	TWW- 6749	TWW- 6750	TWW- 6751	TWW- 6752 °	TWW- 6753 ª
Isotope		<u>.</u>	Concentration (pCi/I	L)	· · · · · · · · · · · · · · · · · · ·
H-3	394 ± 114	< 193	< 193	16321 ± 369	16925 ± 375
Mn-54	< 2.2	< 3.8	< 2.5	< 2.3	< 2.5
Fe-59	< 5.7	< 8.2	< 3.3	< 4.7	< 3.7
Co-58	< 1.9	< 3.2	< 2.3	< 2.3	< 2.5
Co-60	< 1.6	< 3.6	< 2.3	< 2.1	< 1.1
Zn-65	< 3.9	< 7.2	< 2.9	< 1.9	< 4.1
Zr-Nb-95	< 2.7	< 3.5	< 2.3	< 3.3	< 3.4
Cs-134	< 2.5	< 3.2	< 2.0	< 3.0	< 2.6
Cs-137	< 2.8	< 3.8	< 2.3	68.6 ± 7.6	70.2 ± 7.5
Ba-La-140	< 5.8	< 7.2	< 4.1	< 4.1	< 2.1
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
•	· .				•
Sample Location	MW-101A	MW-101B	MW-101C	RINSEATE BLANK	MW-103C
Date Collected	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007
Time Collected	10:23	11:49	14:20	14:40	15:07
Lab Code	TWW- 6754	TWW- 6755	TWW- 6756	TWW- 6757	TWW- 6758
Isotope		c	oncentration (pCi/L	-)	
Н-3	237 ± 89	207 ± 108	< 193	< 149	· < 149
Mn-54	< 3.9	< 3.1	< 6.8	< 3.1	< 5.8
Fe-59	< 7.3	< 5.8	< 8.7	< 4.5	< 6.7
Co-58	< 5.5	< 2.4	< 4.3	< 2.8	< 4.2
Co-60	< 29	< 3 3	< 3.8	< 1.8	< 5.6
7n-65	< 50	< 3.5	< 11.8	< 24	< 7.7
Zr-Nh-95	< 4.4	< 1.0	< 1 3	<i>२ ८.न</i> ८ २ ५	< 27
Cr-13/	~ ~ ~ ~ ~	< 2.0	< 13	< 3.0	< 57
Cr. 137	- 0.0	- 2.3 - 3.7	< 4.0 < 6 0	 0.4 2.9 	- 63
Da-137 Ra La 140	< 0.0	S.1	< 6.0	~ 2.0	< 57
Da-La-140	\$ 9.0	< 0.0	> 0.4	× 4.9	< 0.1

^a Known spike activ Cs-137, 65.6 pCi/L.

H-3, 17185 pCi/L.

The error given is the probable counting error at the 95% confidence level.

Report: 8003-100-370 Page 2 of 3

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

Sample Location Date Collected Time Collected	MW-100C 9/25/2007 11:06	MW-100B 9/25/2007 0:00	MW-102A 9/25/2007 15:21	MW-102A 9/25/2007 15:21	MW-103A 10/1/2007 10:31
Lab Code	TWW- 6759	TWW- 6760	TWW- 6761	TWW- 6762	TWW- 6763
Isotope		(Concentration (pCi/L)	•	· ·
Н-3	< 149	< 193	344 ± 113	387 ± 114	495 ± 117
Mn-54	< 2.9	< 3.9	< 2.3	< 1.8	< 3.4
Fe-59	< 2.0	< 5.6	< 4.9	< 5.2	< 9.0
Co-58	< 3.3	< 3.9	< 3.1	< 2.1	< 6.6
Co-60	< 2.4	< 3.6	< 2.9	< 2.2	< 1.8
Zn-65	< 4.2	< 8.4	< 5.5	< 2.8	< 7.8
Zr-Nb-95	< 2.8	< 5.2	< 4.7	< 3.1	< 5.7
Cs-134	< 2.9	< 3.6	< 3.1	< 2.5	< 4.8
Cş-137	< 2.3	< 3.5	< 2.1	< 2.0	< 5.8
Ba-La-140	< 5.5	< 8.3	< 9.4	< 3.6	< 10.9
. •	· · · ·				v
Sample Location	MW-103B	DBD-04	MW-104A	MW-104B	MW-104C
Date Collected	10/1/2007	10/1/2007	9/28/2007	9/28/2007	9/28/2007
Time Collected	12:30	12:00	10:07	11:42	14:42
Lab Code	TWW- 6764	TWW- 6765	TWW- 6766	TWW- 6767	TWW- 6768
Isotope			Concentration (pCi/L)	· ·	·
H-3	362 ± 113	394 ± 95	237 ± 89	250 ± 89	< 193
Mn-54	< 3.3	< 4.5	< 1.6	< 2.4	< 2.5
⁼ e-59	< 5:8	< 7.7	< 5.0	< 6.4	< 6.6
Co-58	< 3.5	< 2.5	< 2.1	< 1.9	< 1.8
Co-60	< 3.5	< 3.6	< 2.6	< 2.1	< 1.4
Zn-65	< 4.9	< 4.4	< 3.1	< 2.0	< 3.8
Zr-Nb-95	< 5.0	< 4.9	< 3.8	< 2.8	< 3.5
		< 51	< 2.9	< 3.2	< 3.3
Cs-134	< 4.8	× J.4		• • =	
Cs-134 Cs-137	< 4.8 < 3.8	< 4.8	< 3.3	< 2.6	< 3.6

The error given is the probable counting error at the 95% confidence level.

				•	
Sample Location Date Collected Time Collected	MW-35S 10/3/2007 10:26	MW-35D 10/3/2007 13:00			
Lab Code	TWW- 6769	TWW- 6770			
Isotope		·	Concentration (pCi/L)		· · · · · · · · · · · · · · · · · · ·
H-3	227 ± 88	368 ± 94			
Mn-54	< 2.9	< 1.8	. ,		
Fe-59	< 4.4	< 5.0			
Co-58	< 3.7	< 2.2			
Co-60	< 3.3	< 1.6			
Zn-65	< 3.5	< 5.6	•		
Zr-Nb-95	< 3.9	< 3.1	J		
Cs-134	< 4.5	< 3.9			
Cs-137	< 4.7	< 2.0		•	
Ba-La-140	< 5.0	< 2.5			

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

The error given is the probable counting error at the 95% confidence level. Less than (<), value is based on a 4.66 sigma counting error for the background sample.



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Sample ID	Lab Code	Collection Date	H-3 (pCi/L)	LLD
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
MW-31S	TXW-5194	07/31/07	7322 ± 262	< 176
MW-31D	TXW-5195	07/31/07	108 ± 97	< 176
MW-32S	TXW-5196	07/31/07	7535 ± 265	< 176
MW-32D	TXW-5199	07/31/07	507 ± 113	< 176
MW-33S	TXW-5200	07/31/07	2702 ± 175	< 176
MW-33D	TXW-5201	07/31/07	3271 ± 178	< 173
MW-34S	TXW-5202	07/31/07	2839 ± 169	< 173
MW-34D	TXW-5203	07/31/07	1076 ± 126	< 173
MW-30S	TXW-5204	07/31/07	1149 ± 128	< 173
MW-30D	TXW-5205	07/31/07	231 ± 100	< 173
MW-37S	TXW-5206	07/31/07	2961 ± 171	< 173
MW-37D	TXW-5207	07/31/07	135 ± 96	< 173
MW-12S	TXW-5208	07/31/07	860 ± 120	< 173
MW-12D	TXW-5209	07/31/07	1155 ± 128	< 173
	TXW-5197	07/31/07	7185 + 260	< 176
DBD-01 (duplicate)	TXW-5198	07/31/07	7734 ± 268	< 176

The error given is the probable counting error at the 95% confidence level.

Less than (<) values are based on a 4.66 sigma counting error for the background sample.

SA Coorlim

Quality Assurance

Bronia Grob Laboratory Manager



700 Lanowehr Roed • Northbrook, IL 60062-2310 ph. (847) 564-0700 • fax (847) 584-4517

Mr. Al Percival)		LABORATORY REPORT NO .:	8003-100-371
FirstEnergy Corporation		DATE:	11-06-07
Mail Stop 1041		SAMPLES RECEIVED:	10-19-07
5501 North State Route 2	•	PURCHASE ORDER NO.:	
Oak Harbor, Ohio 43449			

Dear Mr. Percival

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Enclosed are results of the analyses for tritium and gamma-emitting isotopes in twenty-one ground water samples.

Should you have any questions or other concerns, please do not hesitate to call.

Sincerely, S.A. Coorlim,

Quality Assurance

Ю Bronia Grob, M. S. Laboratory Mahager

Report: 8003-100-371 Page 1 of 3

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

Sample Location Date Collected Time Collected	MW-30D 10/9/2007 10:02	MW-37S 10/9/2007 12:29	MW-20S 10/9/2007 14:48	DBD-02 10/9/2007 12:00	MW-33S 10/5/2007 9:55
Lab Code	TWW- 7166	TWW- 7167	TWW- 7168	TWW- 7169	TWW- 7170
Isotope		· · · · · · · · · · · · · · · · · · ·	Concentration (pCi/L	.)	· · ·
H-3	< 174	1231 ± 130	189 ± 94	218 ± 95	1110 ± 127
Mn-54	< 3.2	< 2.1	< 2.3	< 2.0	< 1.4
Fe-59	< 7.7	< 3.9	< 6.2	< 4.0	< 3.8
Co-58	< 3.4	< 1.8	< 3.0	< 1.9	< 2.1
Co-60	< 2.8	< 1.9	< 1.4	< 2.5	< 1.8
Zn-65	< 5.4	< 5.7	< 2.4	< 2.9	< 3.9
Zr-Nb-95	< 4.7	< 2.8	< 2.2	< 4.1	< 3.2
Cs-134	< 2.3	< 2.3	< 2.8	< 2.1	< 2.0
Cs-137	< 2.1	< 2.0	< 3.9	< 2.9	< 2.4
Ba-La-140	< 6.5	< 3.2	< 2.6	< 4.0	< 6.7
<u> </u>			<u></u>	<u>,</u>	
		· ·			
Sample Location	MW-33S	- MW-33D	MW-31S	DBD-03	MW-20D
Date Collected	10/5/2007	10/5/2007	10/5/2007	10/5/2007	10/10/2007
Time Collected	9:55	11:33	14:10	12:00	10:35
Lab Code	TWW- 7171	TWW- 7172	TWW- 7173	TWW- 7174	TWW- 7175
Isotope	, ,	(Concentration (pCi/L)	
H-3	1230 ± 130	1934 ± 150	3149 ± 178	3012 ± 175	< 174
Mn-54	< 1.5	< 1.4	< 1.0	< 1.2	< 1.8
Fe-59	< 4.5	< 3.4	< 2.4	< 5.0	< 5.1
Co-58	< 2.7	< 1.2	< 1.7	< 1.6	< 2.1
Co-60	< 2.2	< 1.6	< 1.4	< 1.3	< 1.5
Zn-65	< 3.3	< 1.7	< 3.0	< 2.5	< 4.0
Zr-Nb-95	< 4.2	< 2.2	< 2.2	< 3.0	< 2.6
Cs-134	< 2.6	< 1.3	< 1.4	< 1.9	< 2.5
Cs-137	< 2.6	< 1.3	`< 1.6	< 1.9	< 3.0
Ba-La-140	< 9.4	< 5.1	< 2.6	< 5.1	< 6.1

The error given is the probable counting error at the 95% confidence level.

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Sample Location Date Collected Time Collected	MW-23S 10/10/2007 12:50	MW-15S 10/10/2007 14-12	MW-15D 10/7/2007 16:52	MW-12S 10/4/2007 10:48	MW-12D 10/4/2007 13:38				
Lab Code	TWW- 7176	TWW- 7177	TWW- 7178	TWW- 7179	TWW- 7180				
Isotope		Concentration (pCi/L)							
H-3	306 ± 99	301 ± 99	442 ± 104	276 ± 98	738 ± 115				
Mn-54	< 2.4	< 3.2	< 2.8	< 2.1	< 2.3				
Fe-59	< 3.8	< 6.6	< 5.9	< 2.7	< 3.8				
Co-58	< 1.6	< 3.2	< 3.5	< 1.8	< 1.0				
Co-60	< 2.2	< 3.0	< 2.5	< 2.1	< 1.5				
Zn-65	< 3.4	< 2.2	< 3.9	< 2.4	< 2.9				
Zr-Nb-95	< 3.9	< 5.0	< 2.2	< 2.5	< 3.3				
Cs-134	< 2.3	< 2.6	< 2.7	< 2.0	< 1.9				
Cs-137	< 2.9	< 3.5	< 2.6	< 2.5	< 2.0				
Ba-La-140	< 5.1	< 7.6	< 7.8	< 6.2	< 5.4				

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

Sample Location Date Collected Time Collected	DBD-01 10/4/2007 12:00	MW-31D 10/8/2007 9:47	MW-105A 10/8/2007 12:41	MW-30S 10/8/2007 15:25	MS01-MW-30S 10/8/2007 15:25
Lab Code	TWW- 7181	TWW- 7182	TWW- 7183	TWW- 7184	TWW- 7185 °
Isotope	······		Concentration (pCi/L)	
H-3	769 ± 116	183 ± 94	1832 ± 147	494 ± 106	26895 ± 467
Mn-54	< 1.1	< 3.3	< 4.8	< 4.0	< 2.7
Fe-59	< 3.9	< 8.6	< 5.9	< 5.7	< 5.4
Co-58	< 2.2	< 5.2	< 3.3	< 2.0	< 2.2
Co-60	< 1.4	< 5.3	< 3.8	< 1.8	< 2.8
Zn-65	< 2.1	< 7.1	< 5.0	< 1.9	< 4.3
Zr-Nb-95	< 2.3	< 5.1	< 4.0	< 4.1	< 4.1
Cs-134	< 1.4	< 4.2	< 1.8	< 3.8	< 3.4
Cs-137	< 2:0	< 3.8	< 5.0	< 2.8	109.1 ± 9.7
Ba-La-140	< 2.8	< 12.7	< 14.4	< 4.9	< 3.6

^e Known spike activ Cs-137, 98.4 pCi/L.

H-3, 27,496 pCi/L.

The error given is the probable counting error at the 95% confidence level.

Table 1. Results of analyses for tritium and gamma-emitting isotopes in fourteen ground water samples.

Sample Location Date Collected Time Collected	MSD01-MW-30S 10/8/2007 12:00	· · · · · ·						
Lab Code	TWW- 7186 ^a							
Isotope			Con	Concentration (pCi/L)			ı	
Н-3	26895 ± 467							. ,
Mn-54	< 3.7							
Fe-59 Co-58	< 2.5 < 2.5							
Co-60	< 3.0							
Zn-65	< 5.1			4		• .		
Zr-Nb-95	< 1.9					1		
Cs-137	108.4 ± 8.6						I	
Ba-La-140	< 2.2							

The error given is the probable counting error at the 95% confidence level. Less than (<), value is based on a 4.66 sigma counting error for the background sample.