

Counting Instrument:			2929		Detector:	43-10-1		Cal. Date:		1/3/2008										
Serial #:			129566		Serial #:	132720		Cal. Due Date OK?		WARNING										
Radiation Type	Counting Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Sample Count time (min)	Background Count time (min)		Limiting Alpha Isotope of Concern			Limiting Beta Isotope of Concern						
Alpha	0.3330	Th-230	5802-07	13,100	7/25/2007	7.54E+04	13100	5	20		Isotope	10CFR20 Occupational DAC /Effluent		Isotope	10CFR20 Occupational DAC /Effluent					
Beta	0.2040	Tc-99	5803-07	13,900	7/26/2007	2.11E+05	13900	5	20		U-238	2.00E-11		U-238	2.00E-11					
Type			Air Sample Start Date/Time	Air Sample End Date/Time	Count Date	Run Time (min)	Flow Rate (lpm)	Sample Gross Alpha (Counts)	Sample Gross Beta (Counts)	Alpha Bkg (cpm)	Beta Bkg (cpm)	Filter Efficiency (fraction)	Sample Alpha Activity (dpm)	Sample Beta Activity (dpm)	Alpha Count Concen. (uCi/cc)	Beta Count Concen. (uCi/cc)	Fraction DAC/ Effluent Limit Alpha	Fraction DAC/ Effluent Limit Beta	Alpha MDA (uCi/cc)	Beta MDA (uCi/cc)
Baseline_061808			6/18/08 7:30	6/18/08 17:20	06/26/08	590	100.0	2	456	0.30	85.40	1.00	1	28	5.04E-15	2.17E-13	0.00	0.01	3.31E-14	5.89E-13
Lab Prep Area w-e 6/20/08			6/19/08 7:45	6/19/08 13:00	06/26/08	315	100.0	1	417	0.30	85.40	1.00	0	-10	-1.72E-15	-1.40E-13	0.00	-0.01	6.20E-14	1.10E-12
Lab Prep Area w-e 6/27/08			6/26/08 7:14	6/26/08 14:00	06/30/08	406	100.0	3	512	0.30	76.40	1.00	1	127	1.60E-14	1.41E-12	0.00	0.07	4.81E-14	8.11E-13
Lab Prep Area w-e 7/1/08a			7/08 7:10	7/7/08 14:10	07/09/08	420	100.0	10	324	0.30	72.80	1.00	7	-39	7.41E-14	-4.21E-13	0.00	-0.02	4.65E-14	7.66E-13
Lab Prep Area w-e 7/11/08b			7/10/08 7:17	7/10/08 1405	07/14/08	408	100.0	0	430	0.20	88.60	1.00	-1	-13	-6.63E-15	-1.41E-13	0.00	-0.01	4.24E-14	8.67E-13
Lab Prep Area w-e 7/18/08			7/14/08 7:15	7/16/08 14:12	07/23/08	417	100.0	4	395	0.4	72.5	1.00	2	32	2.08E-14	3.44E-13	0.00	0.02	5.13E-14	7.70E-13
Lab Prep Area w-e 7/25/08			7/21/08 7:05	7/21/08 14:05	08/04/08	420	100.0	1	382	0.20	86.90	1.00	0	-51	1.93E-15	-5.52E-13	0.00	-0.03	4.12E-14	8.35E-13
Lab Prep Area w-e 7/25/08			7/22/08 7:05	7/22/08 14:05	08/04/08	480	100.0	1	418	0.20	86.90	1.00	0	-16	1.69E-15	-1.52E-13	0.00	-0.01	3.60E-14	7.30E-13
Lab Prep Area w-e 7/25/08			7/24/08 7:15	7/24/08 14:15	08/04/08	420	100.0	2	962	0.20	86.90	1.00	1	517	1.03E-14	5.55E-12	0.00	0.28	4.12E-14	8.35E-13
Lab Prep Area w-e 8/1/08			7/29/08 7:15	7/29/08 13:05	08/04/08	417	100.0	4	400	0.20	86.90	1.00	3	-34	2.72E-14	-3.65E-13	0.00	-0.02	4.14E-14	8.41E-13
Lab Prep Area w-e 8/8/08			8/4/08 7:05	8/4/08 14:15	08/04/08	490	100.0	14	405	0.20	86.90	1.00	10	-29	9.50E-14	-2.66E-13	0.00	-0.01	3.53E-14	7.15E-13
Lab Prep Area w-e 8/8/08			8/6/08 7:05	8/6/08 14:05	08/21/08	420	100.0	1	377	0.30	76.90	1.00	0	-7	-1.29E-15	-7.89E-14	0.00	0.00	4.65E-14	7.87E-13
Lab Prep Area w-e 8/8/08			8/8/08 7:05	8/8/08 14:05	08/21/08	420	100.0	1	414	0.30	76.90	1.00	0	29	-1.29E-15	3.10E-13	0.00	0.02	4.65E-14	7.87E-13
Lab Prep Area w-e 8/15/08			8/11/08 12:00	8/11/08 18:00	08/21/08	360	100.0	4	398	0.30	76.90	1.00	2	13	2.78E-14	1.66E-13	0.00	0.01	5.42E-14	9.18E-13
Lab Prep Area w-e 8/15/08			8/14/08 7:05	8/14/08 14:05	08/21/08	420	100.0	2	388	0.30	76.90	1.00	1	3	7.09E-15	3.68E-14	0.00	0.00	4.65E-14	7.87E-13
Lab Prep Area w-e 8/15/08			8/15/08 7:15	8/15/08 14:15	08/21/08	420	100.0	1	390	0.30	76.90	1.00	0	5	-1.29E-15	5.78E-14	0.00	0.00	4.65E-14	7.87E-13
Lab Prep Area w-e 8/22/08			8/19/08 6:30	8/19/08 14:00	08/21/08	450	100.0	10	482	0.30	76.90	1.00	7	96	6.91E-14	9.57E-13	0.00	0.05	4.34E-14	7.34E-13
Lab Prep Area w-e 8/29/08			8/25/08 7:15	8/25/08 14:15	09/02/08	420	100.0	0	163	0.40	78.60	1.00	-1	-225	-1.29E-14	-2.42E-12	0.00	-0.12	5.10E-14	7.95E-13
Lab Prep Area w-e 8/29/08			8/27/08 7:15	8/27/08 14:15	09/02/08	420	100.0	1	156	0.40	78.60	1.00	0	-232	-4.51E-15	-2.49E-12	0.00	-0.12	5.10E-14	7.95E-13
Lab Prep Area w-e 9/5/09			9/3/08 7:15	9/3/08 14:25	09/16/08	430	100.0	1	348	0.50	66.70	1.00	-1	14	-7.55E-15	1.49E-13	0.00	0.01	5.36E-14	7.18E-13
Lab Prep Area w-e 9/12/09			9/8/08 7:20	9/8/08 14:20	09/16/08	420	100.0	0	369	0.50	66.70	1.00	-2	35	-1.61E-14	3.73E-13	0.00	0.02	5.49E-14	7.35E-13
Lab Prep Area w-e 9/12/09			9/11/08 7:15	9/11/08 14:15	09/16/08	420	100.0	0	413	0.50	66.70	1.00	-2	78	-1.61E-14	8.36E-13	0.00	0.04	5.49E-14	7.35E-13
Lab Prep Area w-e 9/19/09			9/17/08 6:55	9/17/08 14:00	09/22/08	425	100.0	1	181	0.40	83.60	1.00	0	-232	-4.46E-15	-2.46E-12	0.00	-0.12	5.04E-14	8.10E-13
Lab Prep Area w-e 9/26/09			9/22/08 7:00	9/22/08 14:00	09/25/08	420	100.0	0	451	0.50	79.50	1.00	-2	52	-1.61E-14	5.63E-13	0.00	0.03	5.49E-14	8.00E-13
Lab Prep Area w-e 9/26/09			9/23/05 7:15	9/23/08 14:15	09/26/08	420	100.0	0	310	0.30	86.00	1.00	-1	-118	-9.66E-15	-1.26E-12	0.00	-0.06	4.65E-14	8.31E-13
Lab Prep Area w-e 9/26/09			9/25/08 7:15	9/25/08 14:15	09/29/08	420	100.0	4	414	0.30	78.70	1.00	2	20	2.38E-14	2.16E-13	0.00	0.01	4.65E-14	7.96E-13
Lab Prep Area w-e 10/3/08			9/30/08 7:15	9/30/08 14:15	10/03/08	420	100.0	3	344	0.50	73.10	1.00	1	-21	9.02E-15	-2.26E-13	0.00	-0.01	5.49E-14	7.68E-13
Lab Prep Area w-e 10/3/08			10/1/08 7:05	10/1/08 14:05	10/06/08	420	100.0	1	391	0.40	69.30	1.00	0	44	-4.51E-15	4.68E-13	0.00	0.02	5.10E-14	7.48E-13
Lab Prep Area w-e 10/10/08			10/10/08 6:35	10/10/08 13:35	10/13/08	420	100.0	2	148	0.30	77.00	1.00	1	-232	7.09E-15	-2.49E-12	0.00	-0.12	4.65E-14	7.78E-13
Lab Prep Area w-e 10/17/08			10/13/08 7:05	10/13/08 14:05	10/16/08	420	100.0	0	366	0.50	79.90	1.00	-2	-33	-1.61E-14	-3.52E-13	0.00	-0.02	5.49E-14	8.02E-13
Lab Prep Area w-e 10/17/08			10/17/08 6:45	10/17/08 13:45	10/20/08	420	100.0	1	376	0.50	68.40	1.00	-1	33	-7.73E-15	3.58E-13	0.00	0.02	5.49E-14	7.44E-13
Lab Prep Area w-e 10/24/08			10/21/08 6:45	10/21/08 14:05	10/24/08	440	100.0	5	362	0.50	66.80	1.00	2	27	2.46E-14	2.81E-13	0.00	0.01	5.24E-14	7.02E-13
Lab Prep Area w-e 10/31/08			10/28/08 7:35	10/28/08 14:35	11/03/08	420	100.0	0	387	0.40	72.60	1.00	-1	24	-1.29E-14	2.52E-13	0.00	0.01	5.10E-14	7.65E-13
Lab Prep Area w-e 10/31/08			10/31/08 7:00	10/31/08 14:00	11/03/08	420	100.0	4	400	0.40	72.60	1.00	2	36	2.06E-14	3.89E-13	0.00	0.02	5.10E-14	7.65E-13
Lab Prep Area w-e 11/7/08			11/4/08 7:00	11/4/08 14:00	11/06/08	420	100.0	7	355	0.20	72.90	1.00	5	-9	5.22E-14	-9.99E-14	0.00	0.00	4.12E-14	7.67E-13
Lab Prep Area w-e 11/14/08			11/10/08 6:45	11/10/08 13:45	11/12/08	420	100.0	2	384	0.30	72.70	1.00	1	20	7.09E-15	2.16E-13	0.00	0.01	4.65E-14	7.66E-13
Lab Prep Area w-e 11/14/08			11/14/08 6:30	11/14/08 13:30	11/17/08	420	100.0	1	336	0.50	77.90	1.00	-1	-52	-7.73E-15	-5.63E-13	0.00	-0.03	5.49E-14	7.92E-13
Lab Prep Area w-e 11/21/08			11/21/08 6:30	11/21/08 13:30	11/24/08	420	100.0	4	477	0.10	73.40	1.00	3	108	3.03E-14	1.16E-12	0.00	0.06	3.42E-14	7.69E-13
Lab Prep Area w-e 11/25/08			11/24/08 7:00	11/24/08 13:00	12/01/08	360	100.0	6	420	0.20	75.00	1.00	4	44	5.11E-14	5.52E-13	0.00	0.03	4.80E-14	9.07E-13
Lab Prep Area w-e 11/25/08			11/25/08 7:00	11/25/08 14:00	12/01/08	420	100.0	1	293	0.20	75.00	1.00	0	-80	1.93E-15	-8.62E-13	0.00	-0.04	4.12E-14	7.77E-13

Counting Instrument:		2929		Detector:		43-10-1		Cal. Date:		1/3/2008											
Serial #:		129566		Serial #:		132720		Cal. Due Date OK?		WARNING											
Radiation Type	Counting Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Sample Count time (min)	Background Count time (min)		Limiting Alpha Isotope of Concern			Limiting Beta Isotope of Concern							
Alpha	0.3330	Th-230	5802-07	13,100	7/25/2007	7.54E+04	13100	5	20		Isotope	10CFR20 Occupational DAC /Effluent		Isotope	10CFR20 Occupational DAC /Effluent						
Beta	0.2040	Tc-99	5803-07	13,900	7/26/2007	2.11E+05	13900	5	20		U-238	2.00E-11		U-238	2.00E-11						
Type		Air Sample Start Date/Time	Air Sample End Date/Time	Count Date	Run Time (min)	Flow Rate (lpm)	Sample Gross Alpha (Counts)	Sample Gross Beta (Counts)	Alpha Bkg (cpm)	Beta Bkg (cpm)	Filter Efficiency (fraction)	Sample Alpha Activity (dpm)	Sample Beta Activity (dpm)	Alpha Count Concn. (uCi/cc)	Beta Count Concn. (uCi/cc)	Fraction DAC/ Effluent Limit Alpha	Fraction DAC/ Effluent Limit Beta	Alpha MDA (uCi/cc)	Beta MDA (uCi/cc)		
Lab Prep Area w-e 12/5/08		12/1/08 7:00	12/1/08 14:30	12/05/08	450	100.0	0	313	0.50	73.20	1.00	-2	-52	-1.50E-14	-5.20E-13	0.00	-0.03	5.13E-14	7.17E-13		
Lab Prep Area w-e 12/5/08		12/3/08 6:30	12/3/08 13:30	12/05/08	420	100.0	2	351	0.50	73.20	1.00	0	-15	6.44E-16	-1.58E-13	0.00	-0.01	5.49E-14	7.68E-13		
Lab Prep Area w-e 12/5/08		12/4/08 6:30	12/4/08 13:30	12/08/08	420	100.0	1	310	0.40	82.10	1.00	0	-99	-4.51E-15	-1.06E-12	0.00	-0.05	5.10E-14	8.12E-13		
Lab Prep Area w-e 12/12/08		12/8/08 6:45	12/8/08 13:45	12/10/08	420	100.0	9	344	0.20	78.20	1.00	6	-46	6.89E-14	-4.94E-13	0.00	-0.02	4.12E-14	7.93E-13		
Lab Prep Area w-e 12/12/08		12/9/08 6:30	12/9/08 13:30	12/12/08	420	100.0	4	382	0.20	68.50	1.00	3	39	2.71E-14	4.15E-13	0.00	0.02	4.12E-14	7.44E-13		
Lab Prep Area w-e 12/12/08		12/11/08 7:00	12/11/08 14:00	12/16/08	420	100.0	1	401	0.50	74.30	1.00	-1	29	-7.73E-15	3.10E-13	0.00	0.02	5.49E-14	7.74E-13		
Lab Prep Area w-e 12/19/08		12/15/08 7:00	12/15/08 14:00	12/17/08	420	100.0	4	321	0.50	76.70	1.00	2	-61	1.74E-14	-6.57E-13	0.00	-0.03	5.49E-14	7.86E-13		
Lab Prep Area w-e 12/19/08		12/17/08 7:00	12/17/08 14:00	12/19/08	420	100.0	1	242	0.50	76.30	1.00	-1	-137	-7.73E-15	-1.47E-12	0.00	-0.07	5.49E-14	7.84E-13		
Lab Prep Area w-e 12/19/08		12/19/08 7:00	12/19/08 14:00	12/23/08	420	100.0	1	318	0.50	75.40	1.00	-1	-58	-7.73E-15	-6.20E-13	0.00	-0.03	5.49E-14	7.79E-13		
Lab Prep Area w-e 12/26/08		12/22/08 7:00	12/22/08 14:00	12/29/08	420	100.0	1	331	0.40	76.20	1.00	0	-49	-4.51E-15	-5.26E-13	0.00	-0.03	5.10E-14	7.83E-13		
Lab Prep Area w-e 12/26/08		12/23/08 7:00	12/23/08 14:00	12/29/08	420	100.0	1	355	0.40	76.20	1.00	0	-25	-4.51E-15	-2.73E-13	0.00	-0.01	5.10E-14	7.83E-13		
Lab Prep Area w-e 1/2/08		12/28/08 14:00	12/28/08 20:00	12/30/08	360	100.0	5	413	0.50	76.90	1.00	2	28	3.01E-14	3.50E-13	0.00	0.02	6.41E-14	9.18E-13		
Lab Prep Area w-e 1/2/08		12/29/08 7:00	12/29/08 15:00	12/31/08	480	100.0	5	461	0.40	78.40	1.00	3	68	2.54E-14	6.35E-13	0.00	0.03	4.46E-14	6.95E-13		
Lab Prep Area w-e 1/2/08		12/29/08 20:00	12/30/08 1:00	12/31/08	420	100.0	8	374	0.40	78.40	1.00	5	-18	5.41E-14	-1.89E-13	0.00	-0.01	5.10E-14	7.94E-13		
Lab Prep Area w-e 1/2/08		12/30/08 18:00	12/31/08 0:00	01/01/09	360	100.0	0	373	0.40	76.70	1.00	-1	-10	-1.50E-14	-1.29E-13	0.00	-0.01	5.95E-14	9.17E-13		
Lab Prep Area w-e 1/2/08		12/31/08 15:00	1/1/09 0:00	01/02/08	540	100.0	3	208	0.60	38.40	1.00	1	16	4.51E-15	1.31E-13	0.00	0.01	4.55E-14	4.39E-13		
Lab Prep Area w-e 1/2/08		1/1/09 14:00	1/2/09 13:00	01/06/09	660	100.0	5	192	0.50	37.60	1.00	2	4	1.64E-14	2.68E-14	0.00	0.00	3.49E-14	3.56E-13		
Lab Prep Area w-e 1/2/08		1/2/09 7:00	1/2/09 13:00	01/06/09	360	100.0	4	198	0.50	37.60	1.00	2	10	2.03E-14	1.23E-13	0.00	0.01	6.41E-14	6.52E-13		
Lab Prep Area w-e 1/9/08		1/6/09 7:15	1/6/09 14:15	01/08/09	420	100.0	6	202	0.50	39.10	1.00	3	6	3.41E-14	6.83E-14	0.00	0.00	5.49E-14	5.69E-13		
Lab Prep Area w-e 1/9/08		1/9/09 7:00	1/9/09 14:00	01/12/09	420	100.0	5	191	0.80	38.10	1.00	2	0	1.61E-14	5.26E-15	0.00	0.00	6.48E-14	5.62E-13		
Lab Prep Area w-e 1/16/08		1/12/09 6:15	1/12/09 13:45	01/14/09	450	100.0	8	197	0.50	37.80	1.00	5	8	4.75E-14	7.85E-14	0.00	0.00	5.13E-14	5.23E-13		
Lab Prep Area w-e 1/23/08		1/19/09 7:00	1/19/09 14:00	01/21/09	420	100.0	4	188	0.60	37.70	1.00	1	0	1.42E-14	-5.26E-15	0.00	0.00	5.85E-14	5.60E-13		
Lab Prep Area w-e 1/23/08		1/21/09 7:00	1/21/09 14:00	01/27/09	420	100.0	6	194	0.70	38.40	1.00	3	2	2.77E-14	2.10E-14	0.00	0.00	6.18E-14	5.64E-13		
Lab Prep Area w-e 1/23/08		1/22/09 7:10	1/22/09 14:10	01/27/09	420	100.0	3	193	0.70	38.40	1.00	0	1	2.58E-15	1.05E-14	0.00	0.00	6.18E-14	5.64E-13		
Lab Prep Area w-e 1/23/08		1/23/09 7:15	1/23/09 14:15	01/27/09	420	100.0	2	182	0.70	38.40	1.00	-1	-10	-5.80E-15	-1.05E-13	0.00	-0.01	6.18E-14	5.64E-13		