ENTERED

Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Wednesday, June 25, 2014 3:42 PM
To: Allen, Pam, NMENV
Subject: FW: WIPP Information - for call today
Attachments: Station A and B 72 hour Recount Charts 3-11-14.xlsx; Station A and B Filter Readings for Public Release 3-11-14.xlsx; WIPP Environmental Background Pre-Release Mar 2014.pdf; Environmental Status 2014-03-11 1540.xlsx

March

From: Kliphuis, Trais, NMENV
Sent: Wednesday, March 12, 2014 12:45 PM
To: Flynn, Ryan, NMENV; Kendall, Jeff, NMENV
Cc: Tongate, Butch, NMENV; Winchester, Jim, NMENV; Blaine, Tom, NMENV; Schwender, Erika, NMENV; Kieling, John, NMENV; Skibitski, Thomas, NMENV; Maestas, Ricardo, NMENV; Holmes, Steve, NMENV; LucasKamat, Susan, NMENV; Nelson, Morgan, NMENV
Subject: FW: WIPP Information - for call today

From: Oba Vincent [mailto:oba.vincent@cbfo.doe.gov]
Sent: Wednesday, March 12, 2014 12:41 PM
To: Kliphuis, Trais, NMENV; 'peake.tom@epa.gov'; 'Edwards, Jonathan'; 'Walsh, Jonathan'; 'Perrin, Alan'; 'Bob.Kehrman@wipp.ws'; 'Rick.Chavez@wipp.ws'; 'Stone.Nick@epa.gov'; Smith, Coleman, NMENV; 'brozowski.george@epa.gov'; 'Fraass, Ron'
Cc: George Basabilvazo - WIPPNet; 'Reynolds, Tammy - NWP (Tammy.Reynolds@wipp.ws)'; 'Pace, Berry (Berry.Pace@wipp.ws)'; 'Alton.Harris@em.doe.gov'; Susan McCauslin; 'Joe Harvill (jharvill@portageinc.com)'; 'Kennedy, Scott - NWP (Scott.Kennedy@wipp.ws)'; 'Jones, Stewart - RES'; 'Berta Oates'; 'schultheisz.daniel@epa.gov'
Subject: WIPP Information - for call today

Attached are the tables and graph for the station A and B data, environmental data and information regarding the radiological background prior to the release for Am-241 and Pu-239.

Follow-up actions:

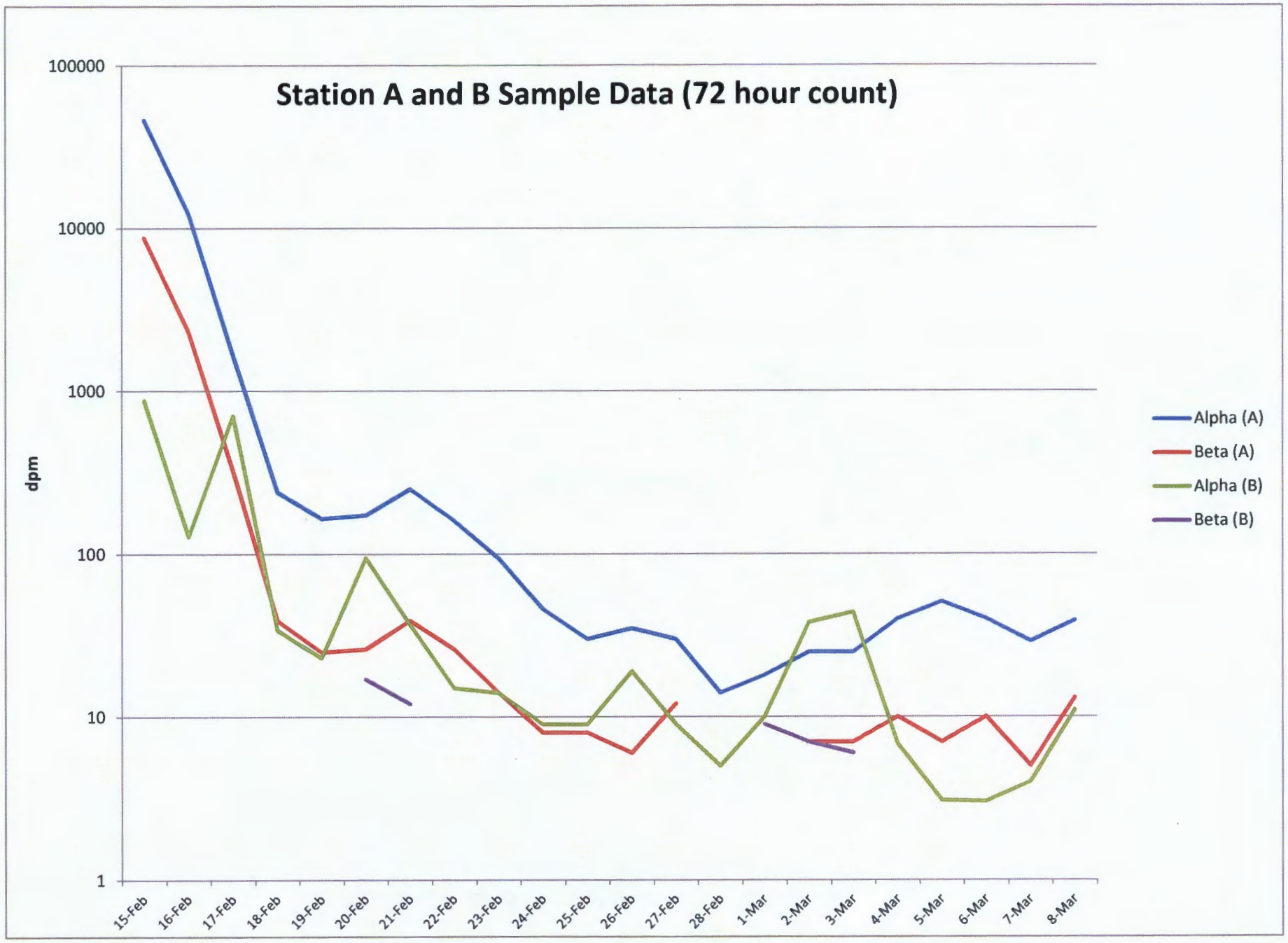
Yesterday, Trais asked a question regarding the statement we had on the website regarding the damper air flow and how the percentage was calculated. The 0.4 percent in reference to the damper inefficiency was based on the assumption that there was an estimated 250 cubic feet of air passing through the dampers and 60,000 cubic feet of air being exhausted (250/60,000 =0 .417%). This was a very simplistic way to look at a very complex system. The percentage was removed from the website.

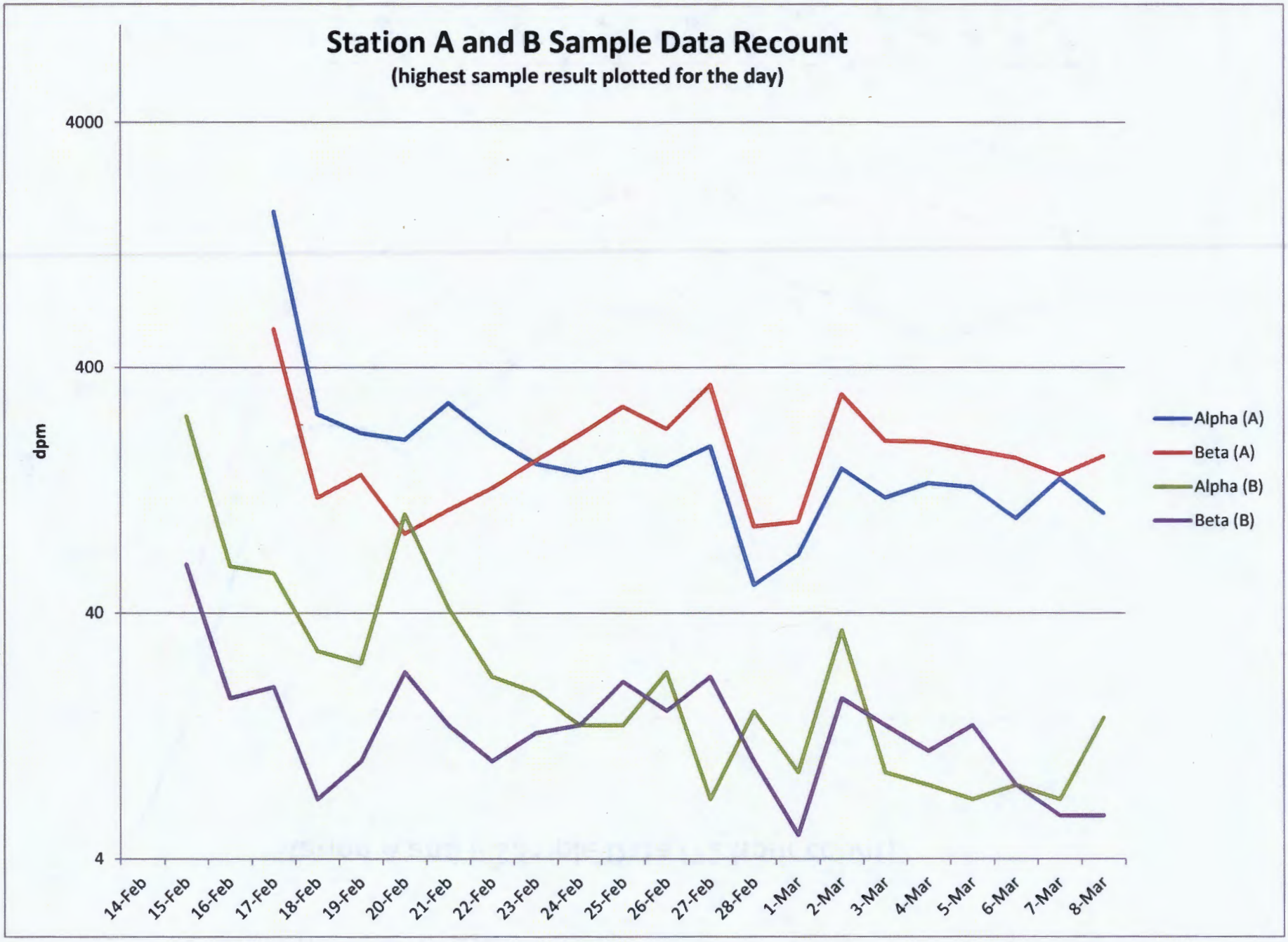
Also, Tom has asked for the input files for CAP-88 which we hope to put up on the ICLN Portal either today or tomorrow.

Thanks

Oba

140380


Station A and B Sample Data (72 hour count)
dpm
100000
10000
1000
100
10
1
15-Feb
16-Feb
17-Feb
18-Feb
19-Feb
20-Feb
21-Feb
22-Feb
23-Feb
24-Feb
25-Feb
26-Feb
27-Feb
28-Feb
1-Mar
2-Mar
3-Mar
4-Mar
5-Mar
6-Mar
7-Mar
8-Mar
Alpha (A)
Beta (A)
Alpha (B)
Beta (B)


Station A and B Sample Data Recount
(highest sample result plotted for the day)
dpm
4000
400
40
4
14-Feb
15-Feb
16-Feb
17-Feb
18-Feb
19-Feb
20-Feb
21-Feb
22-Feb
23-Feb
24-Feb
25-Feb
26-Feb
27-Feb
28-Feb
1-Mar
2-Mar
3-Mar
4-Mar
5-Mar
6-Mar
7-Mar
8-Mar
Alpha (A)
Beta (A)
Alpha (B)
Beta (B)

4 hour Recount Data

	A		B	
Date	Alpha (A)	Beta (A)	Alpha (B)	Beta (B)
14-Feb				
15-Feb			253	63
16-Feb			62	18
17-Feb	1723	573	58	20
18-Feb	258	118	28	7
19-Feb	216	146	25	10
20-Feb	203	84	101	23
21-Feb	286	105	42	14
22-Feb	208	129	22	10
23-Feb	162	167	19	13
24-Feb	149	213	14	14
25-Feb	165	277	14	21
26-Feb	158	225	23	16
27-Feb	191	340	7	22
28-Feb	52	90	16	10
1-Mar	69	94	9	5
2-Mar	155	311	34	18
3-Mar	118	201	9	14
4-Mar	135	199	8	11
5-Mar	130	184	7	14
6-Mar	97	171	8	8
7-Mar	141	146	7	6
8-Mar	102	174	15	6

72 Hour Recount Data

Date	Alpha (A)	Beta (A)	Alpha (B)	Beta (B)
15-Feb	46269	8749	875	
16-Feb	12232	2306	128	
17-Feb	1660	325	706	
18-Feb	239	39	34	
19-Feb	165	25	23	
20-Feb	173	26	95	17
21-Feb	250	39	37	12
22-Feb	160	26	15	
23-Feb	94	14	14	
24-Feb	46	8	9	
25-Feb	30	8	9	
26-Feb	35	6	19	
27-Feb	30	12	9	
28-Feb	14		5	
1-Mar	18		10	9
2-Mar	25	7	38	7
3-Mar	25	7	44	6
4-Mar	40	10	6.8	
5-Mar	51	7	3.07	
6-Mar	40	10	3.03	
7-Mar	29	5	4	
8-Mar	39	13	11	5.82

Station A, Before the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/14/14	2/14/14 0742	2/15/14 0630	A23021414	**4.4M	1.2M	021514/0649	Destructive Analysis			8.2M	<MDA	3032014
2/15/14	2/15/14 0630	2/15/14 0840	A23021514	225K	46.8K	021514/0916	Destructive Analysis			213K	<MDA	3032014
2/15/14	2/15/14 0840	2/15/14 1510	A230215140840	285K	54K	021514/1541	Non-Rad Analysis in SRS Lab			N/A	N/A	N/A
2/15/14	2/15/14 1510	2/15/14 2330	A230215141510	124050	24481	021614/0012	Non-Rad Analysis in SRS Lab			N/A	N/A	N/A
2/15/14	2/15/14 2330	2/16/14 0850	A230215142330	47283	10558	021614/0917	Count Not Performed			46269	8749	030614/ 1555
2/16/14	2/16/14 0850	2/16/14 1648	A230216140850	12215	2842	121614/1927	Count Not Performed			12232	2306	030614/ 1555
2/16/14	2/16/14 1648	2/17/14 0015	A230216141650	4051	1256	021714/0046	Count Not Performed			3526	702	030614/ 1555
2/17/14	2/17/14 0015	2/17/14 0820	A230217140015	1802	638	021714/0942	1723	573	021714/1012	1660	325	030614/ 1555
2/17/14	2/17/14 0820	2/17/14 1620	A230217140820	1048	621	021714/1705	Count Not Performed			767	150	030614/ 1555
2/17/14	2/17/14 1620	2/18/14 0010	A230217141620	802	633	021814/0051	633	230	021814/1012	44	8	030614/ 1555
2/18/14	2/18/14 0010	2/18/14 0820	A230218140010	326	338	021814/0928	237	157	021814/1202	163	30	030614/ 1555
2/18/14	2/18/14 0820	2/18/14 1605	A230218140820	609	780	021814/1624	258	118	021914/0315	239	39	030614/ 1555
2/18/14	2/18/14 1605	2/19/14 0035	A230218141605	346	340	021914/0143	227	143	021914/0547	186	41	030614/ 1555
2/19/14	2/19/14 0035	2/19/14 0823	A230219140040	224	320	021914/0952	136	143	021914/1222	72	12	030914/1349

All counts performed on a Tennelec XLB for 10 minutes.

**Correction factor suspect in analysis

Station A, Before the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/19/14	2/19/14 0823	2/19/14 1600	A230219140823	264	443	021914/1708	130	137	021914/2046	84	11	030914/1349
2/19/14	2/19/14 1600	2/20/14 0018	A230219141600	286	378	022014/0124	150	119	02214/0352	93	12	030914/1350
2/19/14	2/19/14 0018	2/20/14 0817	A230220140018	290	219	022014/1010	216	146	022014/1256	165	25	030914/1357
2/20/14	2/20/14 0817	2/20/14 1624	A230220140817	135	131	0222014/1838	107	85	022014/2204	70	12	030914/1357
2/20/14	2/20/14 1624	2/21/14 0012	A230220141624	231	103	022114/0154	203	84	022114/0505	173	26	030914/1357
2/21/14	2/21/14 0012	2/21/14 0845	A230221140012	330	146	022114/1027	286	105	022114/1532	250	39	030914/1357
2/21/14	2/21/2014 0845	2/21/2014 1620	A230221140845	253	199	022114/1654	175	86	022114/2000	158	22	030914/1358
2/21/14	2/21/2014 1620	2/22/2014 0050	A230221141620	388	549	022214/0124	215	154	022214/0400	168	24	030914/1358
2/22/14	2/22/2014 0050	2/22/2014 0830	A230222140050	421	599	022214/0906	180	154	022214/1150	107	16	030914/1517
2/22/14	2/22/2014 0830	2/22/2014 1650	A230222140830	243	337	022214/1713	140	166	022214/2004	67	12	030914/1518
2/22/14	2/22/2014 1650	2/23/2014 0011	A230222141650	487	626	022314/0047	208	129	022314/0401	160	26	030914/1518
2/23/14	2/23/2014 0011	2/23/2014 0830	A230223140011	328	504	022314/0906	162	167	022314/1222	94	14	030914/1547
2/23/14	2/23/2014 0830	2/23/2014 1615	A230223140830	225	340	022314/1644	Count Not Performed			46	7	030914/1548
2/23/14	2/23/2014 1615	2/24/2014 0025	A230223141615	412	696	022414/0048	102	109	022414/0405	39	5	030914/1548
2/24/14	2/24/2014 0025	2/24/2014 0912	A230224140025	195	309	022414/1137	149	213	022414/1540	46	8	030914/1552

All counts performed on a Tennelec XLB for 10 minutes.

**Correction factor suspect in analysis

Station A, Before the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/24/14	2/24/2014 0912	2/24/14 1702	A230224140912	437	740	022414/1733	141	214	022414/2031	26	<MDA	030914/1552
2/24/14	2/24/14 1702	2/25/14 0005	A230224141702	429	796	022514/0029	91	138	022514/0355	26	7	030914/1553
2/25/14	2/25/14 0005	2/25/14 0830	A230225140005	381	618	022514/0951	138	194	022514/1349	30	8	030914/1636
2/25/14	2/25/14 0830	2/25/14 1628	A120225140830	544	962	022514/ 1730	165	277	022514/ 2000	17	<MDA	030914/1636
2/25/14	2/25/14 1628	2/26/14 0025	A230225141628	647	1140	022614/0100	161	263	022614/0407	28	<MDA	030914/1636
2/26/14	2/26/14 0025	2/26/14 0845	A230226140025	307	487	022614/ 0958	158	225	022614/1354	32	<MDA	030914/1636
2/26/14	2/26/14 0845	2/26/14 1640	A230226140845	377	579	022614/ 1729	Count Not Performed			35	6	030914/1637
2/26/14	2/26/14 1640	2/27/14 0015	A230226141640	458	826	022714/ 0052	114	172	022714/ 0408	25	14	030914/1637
2/27/14	2/27/14 0015	2/27/14 0903	A230227140015	685	1198	022714/ 0932	191	340	022714/ 1225	26	9	030914/2058
2/27/14	2/27/2014 0903	2/27/14 1651	A230227140903	457	793	022714/1726	78	103	022814/ 0424	30	12	030914/2055
2/28/14	2/27/2014 1651	2/28/14 0015	A230227141651	239	423	022812/0046	52	90	022814/ 0401	14	<MDA	030914/2053
2/28/14	2/28/14 0015	2/28/14 0835	A230228140015	81	136	030114/1032	49	81	022814/ 1417	11	<MDA	030914/2103
2/28/14	2/28/14 0835	02/28/14 1615	A230228140835	84	127	022814 / 1820	43	91	022814 / 2119	9	<MDA	030914/2107
3/1/14	2/28/14 1615	3/1/14 0104	A230228141615	133	208	022814 / 0235	60	89	030114 / 0527	16	7	030914/2213
3/1/14	3/1/14 0104	3/1/14 0855	A230301140104	224	440	030114/0956	73	116	030114/1257	9	8	030914/2210

All counts performed on a Tennelec XLB for 10 minutes.

**Correction factor suspect in analysis

Station A, Before the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
3/1/14	3/1/14 0855	3/1/14 1656	A230301140855	186	354	030114/ 1756	69	94	030114/ 2109	18	<MDA	3092249
3/1/14	3/1/14 1656	3/2/14 0007	A230301141656	121	213	030214/ 0107	47	55	030214/ 0512	17	9	030914/2249
3/2/14	3/2/14 0007	3/2/14 0825	A230302140007	918	1638	030214/0836	122	218	030214/ 1155	15	<MDA	030914/2251
3/2/14	3/2/14 0825	3/2/14 1650	A230302140825	563	973	030214/ 1732	155	311	030214/2124	13	7	030914/2251
3/2/14	3/2/14 1650	3/3/14 0106	A230302141650	359	621	030314/0158	150	258	030314/ 0537	25	7	030914/2254
3/3/14	3/3/14 0106	3/3/14 0817	A230303140106	264	468	030314/ 0915	118	201	030314/ 1217	19	7	030914/2255
3/3/14	3/3/14 0817	3/3/2014 1630	A230303140817	380	699	030314/ 1704	97	172	030314/ 2103	19	8	030914/2256
3/3/14	3/3/2014 1630	3/4/14 0034	A230303141630	191	340	030414/ 0207	93	147	030414/ 0543	25	7	030914/2258
3/4/14	3/4/14 0034	3/4/14 0817	A230304140034	479	757	030414/ 0900	135	199	030414/1130	18	<MDA	030914/2249
3/4/14	3/4/14 0817	3/4/14 1557	A230304140817	384	586	030414/ 1639	120	129	030414/ 1957	40	10	031014/0121
3/4/14	3/4/14 1557	3/5/14 0022	A230304141557	399	753	030514/ 0051	74	143	030514/ 0351	14	<MDA	031014/0117
3/5/14	3/5/14 0022	3/5/14 0835	A230305140022	674	1162	030514/ 0903	112	203	030514/ 1206	12	<MDA	031014/0118
3/5/14	3/5/14 0835	3/5/14 1605	A230305140835	203	344	030514/ 1622	130	184	030514/ 2007	51	7	031014/0119
3/5/14	3/5/14 1605	3/6/14 0040	A230305141600	341	599	030614/ 0109	118	168	030614/ 0403	45	13	031014/0120
3/6/14	3/6/14 0040	3/6/14 0820	A230306141238	117	174	030614/ 1238	70	116	030614/2011	40	10	031014/0121

All counts performed on a Tennelec XLB for 10 minutes.

**Correction factor suspect in analysis

Station A, Before the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
3/6/14	3/6/14 0820	3/6/14 1554	A230306140820	151	244	030614/ 1725	55	85	030614/ 2349	19	5	031114/1135
3/6/14	3/6/14 1554	3/7/14 0015	A230306141554	467	894	030714/ 0039	97	171	030714/ 0401	12	<MDA	031114/1135
3/7/14	3-7-14 0015	3-7-14 1055	A230307140015	210	384	030714/1225	88	136	030714/2141	18	4	031114/1136
3/7/14	3-7-14 1055	3-7-14 1635	A230307141055	231	357	030714/1749	60	63	030814/0456	29	5	031114/1137
3/7/14	3-7-14 1635	3-8-14 0029	A230307141635	257	311	030814/0152	141	146	030814/0348	78	16	
3/8/14	3-8-14 0029	3-8-14 0805	A230308140029	207	289	030814/0955	88	106	030814/2140	39	13	031114/1138
3/8/14	3-8-14 0805	3-9-14 0020	A230308140805	222	378	030914/0051	89	127	030914/1022			
3/9/14	3-9-14 0020	3-9-14 0830	A230309140020	173	300	030914/0951	102	174	030914/1254			
3/9/14	3/9/2014 0830	3-9-14 1615	A230309140830	120	226	030914/1744	65	93	031014/0232			
3/9/14	3-9-14 1615	3-10-14 0010	A230309141615	64	99	031014/0115	32	42	031014/1018			
3/10/14	3-10-14 0010	3-10-14 0835	A230310140010	138	276	031014/0954	42	79	031014/1729			
3/10/14	3-10-14 0835	3-10-14 1620	A230310140835	210	407	031014/	46	75	031114/1032			
3/10/14	3-10-14 1620	3-11-14 0030	A230310141620	224	380	031014/	65	84				
3/11/14	3-11-14 0030	3-11-14 0815	A230311140030	310	496	031114/	89	120				
3/11/14	3-11-14 0815	3-11-14 1600	A230311140815	304	558							

All counts performed on a Tennelec XLB for 10 minutes.

**Correction factor suspect in analysis

Station B, After the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/14/14	2/14/14 0754	2/15/14 0835	B13021414	28205	5877	021514/0850	Not Performed (Lab Analysis)			57044	<MDA	2/28/2014
2/15/14	2/15/14 0835	2/15/14 1445	B13021514	36194	7340	021514/1134	Not Performed (Lab Analysis)			SRS Non-Rad Analysis		2/28/2014
2/15/14	2/15/14 1445	2/15/14 2305	B130215141445	671	142	021714/1056	Not Performed (Lab Analysis)			875	Not Analyzed	2/28/2014
2/15/14	2/15/14 2305	2/16/14 0904	B130215142305	300	152	021614/0932	253	63	021614/1127	258	Not Analyzed	2/28/2014
2/16/14	2/16/14 0904	2/16/14 1705	B130216140904	144	67	021614/1755	111	22	021714/1201	128	Not Analyzed	2/28/2014
2/16/14	2/16/14 1705	2/17/2014 0030	B130216141705	72	54	021714/0046	62	18	021714/1203	53	Not Analyzed	2/28/2014
2/17/14	2/17/14 0030	2/17/14 0805	B130216140030	43	26	021714/0930	30	23	021714/0955	31	Not Analyzed	2/28/2014
2/17/14	2/17/14 0805	2/17/14 1600	B130217140805	78	35	021714/1650	58	20	021714/1958	52	Not Analyzed	2/28/2014
2/17/14	2/17/14 1600	2/18/14 0030	B130217141600	65	55	021814/0051	45	18	021814/0423	706	Not Analyzed	2/28/2014
2/18/14	2/18/14 0030	2/18/14 0901	B130218140030	42	61	021814/0928	23	12	021814/1202	27	Not Analyzed	2/28/2014
2/18/14	2/18/14 0901	2/18/14 1655	B130218140901	41	29	021814/1754	28	7	021914/0315	34	Not Analyzed	2/28/2014
2/18/14	2/18/14 1655	2/19/14 0105	B130218141655	42	36	021914/0144	20	7	021914/0547	19	Not Analyzed	2/28/2014
2/19/14	2/19/14 0105	2/19/14 0900	B130219140105	33	44	021914/0952	20	15	021914/1222	11	<MDA	030614/ 1730
2/19/14	2/19/14 0900	2/19/14 1627	B130219140900	36	34	021914/1708	25	10	021914/2036	23	<MDA	030614/ 1730
2/19/14	2/19/14 1627	2/20/14 0035	B130219141627	45	46	022014/0107	25	9	022014/0359	17	<MDA	030614/ 1730

All counts performed on a Tennelec XLB for 10 minutes. ** Sample cross contaminated from A filter due to technique

Station B, After the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/20/14	2/20/14 0035	2/20/14 0852	B130220140035	52	21	022014/1035	38	14	022014/1226	42	8	030614/ 1730
2/20/14	2/20/14 0852	2/20/14 1654	B130220140852	98	22	022014/1838	101	23	022014/2211	95	17	030614/ 1730
2/20/14	2/20/14 1654	2/21/14 0038	B130220141654	40	19	022114/0204	33	11	022114/0521	34	9	030614/ 1730
2/21/14	2/21/14 0038	2/21/14 0820	B130221140038	30	6	022114/1027	27	12	022114/1532	25	5	030614/ 1757
2/21/14	2/21/14 0820	2/21/14 1600	B130221140820	37	15	022114/1654	41	12	022114/2028	33	5	030614/ 1730
2/21/14	2/21/14 1600	2/22/14 0019	B130221141600	50	28	022214/0125	42	14	022214/0358	37	12	030614/ 1730
2/22/14	2/22/14 0019	2/22/14 0810	B130222140019	30	22	022214/0946	19	12	022214/1151	13	<MDA	030614/ 1730
2/22/14	2/22/14 0810	2/22/14 1615	B130222140810	28	17	022214/1713	22	10	022214/2004	15	<MDA	030614/ 1730
2/22/14	2/22/14 1615	2/22/14 2356	B130222141615	32	33	022314/0047	22	9	022314/0404	11	<MDA	030614/ 1757
2/22/14	2/22/14 2356	2/23/14 0810	B130222142356	21	29	022314/0938	19	17	022314/1227	9	<MDA	030614/ 1811
2/23/14	2/23/14 0810	2/23/14 1605	B130223140810	7	22	022314/1642	17	7	022314/2010	14	<MDA	030614/ 1757
2/23/14	2/23/14 1605	2/24/14 0015	B130223141605	40	54	022414/0054	19	13	022414/0401	12	<MDA	030614/ 1811
2/24/14	2/24/14 0015	2/24/14 0846	B130224140015	14	19	022414/1136	14	14	022414/1540	9	<MDA	030614/ 1811
2/24/14	2/24/14 0846	2/24/14 1635	B130224140846	22	28	022414/1733	8	8	022414/2031	6	<MDA	030614/ 1811
2/24/14	2/24/14 1635	2/25/14 0016	B130224141635	45	72	022514/0029	8	12	022514/0404	6	<MDA	030614/ 1811

All counts performed on a Tennelec XLB for 10 minutes. ** Sample cross contaminated from A filter due to technique

Station B, After the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
2/25/14	2/25/14 0016	2/25/14 0902	B130225140016	41	53	022514/ 1012	14	21	022514/1403	9	<MDA	030614/ 1840
2/25/14	2/25/14 0902	2/25/14 1652	B130225140902	39	59	022514/ 1742	12	7	022514/ 2000	5	<MDA	030614/ 1840
2/25/14	2/25/14 1652	2/26/14 0010	B130225141652	27	41	022614/ 0101	12	10	022614/ 0450	7	<MDA	030614/ 1840
2/26/14	2/26/14 0010	2/26/14 0921	B130226140010	26	21	022614/ 1051	23	16	022614/ 1423	19	<MDA	030614/ 1905
2/26/14	2/26/14 0921	2/26/2014 1616	B130226140921	22	25	022614/ 1727	Count Not Performed			6	<MDA	030614/ 1905
2/26/14	2/26/14 1616	2/27/14 0030	B130226141616	33	59	022714/ 0129	11	14	022714/0408	4	<MDA	030614/ 1825
2/27/14	2/27/14 0030	2/27/14 0806	B130227140030	22	37	022714/ 0929	7	22	022714/1153	1	<MDA	030614/ 1825
2/27/14	2/27/14 0806	2/28/14 0012	B130227140806	27	41	022814/ 0046	16	10	022814/0401	9	<MDA	030614/ 1825
2/28/14	02/28/14 0012	2/28/14 0927	B130228140012	14	20	022814 / 1024	8	5	022814/1408	4	<MDA	030614/ 1825
2/28/14	2/28/14 0927	2/28/14 1705	B130228140927	6	7	022814 / 1825	5	<MDA	022814/1919	5	<MDA	030614/ 1825
3/1/14	2/28/14 1705	3/1/14 0144	B130228141705	16	28	030114 / 0235	6	5	030114 / 0528	3	<MDA	030614/ 1825
3/1/14	3/1/14 0144	3/1/14 0915	B130301140144	21	35	030114/ 0957	6	8	030114/1257	2	<MDA	030614/ 1825
3/1/14	3/1/14 0915	3/1/14 1620	B130301140915	10	10	030114/ 1735	4	<MDA	030114/ 2110	4	<MDA	030614/ 1825
3/1/14	3/1/14 1620	3/2/14 0045	B130301141620	17	16	030214/0108	9	5	030214/ 0512	10	9	030614/ 1825

All counts performed on a Tennelec XLB for 10 minutes. ** Sample cross contaminated from A filter due to technique

Station B, After the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
3/2/14	3/2/14 0045	3/2/14 0850	B130302140045	51	81	030214/ 0925	19	20	030214/ 1156	5	<MDA	030914/2323
3/2/14	3/2/14 0850	3/2/14 1630	B130302140850	51	37	030214/ 1723	34	18	030214/ 2122	38	7	030914/2326
3/2/14	3/2/14 1630	3/3/14 0106	B130302141630	17	28	030314/ 0152	7	13	030314/ 0559	3.14	<MDA	030914/2327
3/3/14	3/3/14 0106	3/3/14 0820	B130303140106	26	39	030314/ 0855	9	14	030314/ 1217	1.05	<MDA	030914/2327
3/3/14	3/3/14 0820	3/3/14 1620	B130303140820	19	48	030314/ 1704	2	6	030314/ 2103	44	6	030914/2328
3/3/14	3/3/14 1620	3/4/14 0114	B130303141620	22	33	030414/ 0208	5	8	030414/ 0543	1.31	<MDA	030914/2330
3/4/14	3/4/14 0114	3/4/14 0815	B130304140114	31	49	030414/ 0846	8	11	030414/ 1130	3.66	<MDA	031014/0238
3/4/14	3/4/14 0815	3/4/14 1610	B130304140815	18	26	030414/ 1639	4	<MDA	030414/ 1957	6.8	<MDA	030914/2330
3/4/14	3/4/14 1610	3/5/14 0005	B130304141610	21	34	030514/ 0051	5	5	030514/ 0351	2.61	<MDA	030914/2331
3/5/14	3/5/14 0005	3/5/14 0810	B130305140005	26	36	030514/ 0920	7	14	030514/ 1206	2.04	<MDA	030814/1332
3/5/14	3/5/14 0810	3/5/14 1608	B130305140810	86	49	030514/ 1649	6	8	030514/ 2007	**60	10	030814/1332
3/5/14	3/5/14 1608	3/6/14 0015	B130305141608	16	29	030614/ 0109	7	9	030614/ 0403	3.07	<MDA	030814/2329
3/6/14	3/6/14 0015	3/6/14 0835	B130306140015	22	45	030614/ 0902	8	8	030614/ 1240	2.78	<MDA	030914/1016
3/6/14	3/6/14 0835	3/6/14 1620	B130306140835	18	27	030614/ 1725	1	<MDA	030614/ 2348	3.03	<MDA	031014/0223
3/6/14	3/6/14 1620	3/7/14 0001	B130306141620	18	35	030714/ 0039	2	5	030714/1255	<MDA	<MDA	031014/0104

All counts performed on a Tennelec XLB for 10 minutes. ** Sample cross contaminated from A filter due to technique

Station B, After the Filtration System

Date	Time Installed	Time Removed	Filter ID	Alpha (dpm)	Beta (dpm)	First Count (date/time)	Alpha (dpm)	Beta (dpm)	Re-count (date/time)	Alpha (dpm)	Beta (dpm)	72 Hour count (date/time)
3/7/14	3/7/2014 0001	3-7-14 1140	B13030714001	24	41	030714/1226	7	6	030814/0141	4	<MDA	031014/0030
3/7/14	3-7-14 1140	3-7-14 1710	B130307141140	11	21	030714/1750	3	<MDA	030814/0157	4	<MDA	031014/1736
3/7/14	3-7-14 1710	3-8-14 0015	B130307141710	10	15	030814/0122	3	<MDA	030814/2331	4	<MDA	031014/0017
3/8/14	3-8-14 0015	3-8-14 0855	B130308140015	23	28	030814/0955	5	<MDA	030914/1017	4.34	<MDA	031114/1138
3/8/14	3-8-14 0855	3-8-14 1750	B130308140855	22	21	030814/1815	15	6	030814/2335	11	5.82	031114/1401
3/8/14	3-8-14 1750	3-9-14 0055	B130308141750	10	18	030914/0142	4	3	030914/1020			
3/9/14	3-9-14 0055	3-9-14 0905	B130309140055	17	31	030914/0952	2	2	031014/0803			
3/9/14	3-9-14 0905	3-9-14 1650	B130309140905	8	10	030914/1744	1	2	031014/0154			
3/9/14	3-9-14 1650	3-10-14 0010	B130309141650	21	39	030914/0046	1	3	031014/0801			
3/10/14	3-10-14 0010	3-10-14 0915	B130310140010	16	25		5	6				
3/10/14	3-10-14 0915	3-10-14 1640	B130310140915	10	19		3	2	031114/1032			
3/10/14	3-10-14 1640	3-11-14 0050	B130310141640	26	45	031114/	4	5	31114/			
3/11/14	3-11-14 0050	3-11-14 0847	B130311140050	38	59	031114/	6	10	31114/			
3/11/14	3-11-14 0847	3-11-14 1619	B130311140847	13	24	031114/						

All counts performed on a Tennelec XLB for 10 minutes. ** Sample cross contaminated from A filter due to technique

DRAFT

Preliminary Analysis of Historical Annual Site Environmental Report (ASER) Ambient Air Data

WIPP Facility Low-Volume Sample Statistics for Calendar Years 2010-2012 (derived from WIPP ASER Tables)

	Maximum (Bq/m^3)			Two Standard Deviations (2 σ)	
Location	Am-241	Pu-239/240	Location	Am-241	Pu-239/240
WFF	8.80E-08	6.73E-07	WFF	8.28E-08	3.95E-07
WEE	1.19E-07	1.75E-05	WEE	1.01E-07	1.01E-05
WSS	6.90E-08	5.10E-06	WSS	2.95E-06	2.94E-06
MLR	1.16E-07	6.47E-07	MLR	1.19E-07	3.74E-07
SEC	1.10E-07	6.03E-07	SEC	1.10E-07	3.60E-07
CBD	1.33E-07	5.17E-08	CBD	1.02E-07	1.76E-07
SMR	1.09E-07	7.89E-08	SMR	9.48E-08	1.16E-07

	Median (Bq/m^3)			Two Standard Deviations (2 σ)	
Location	Am-241	Pu-239/240	Location	Am-241	Pu-239/240
WFF	2.01E-08	1.73E-08	WFF	8.28E-08	3.95E-07
WEE	3.26E-08	4.02E-09	WEE	1.01E-07	1.01E-05
WSS	-4.60E-09	9.63E-10	WSS	2.95E-06	2.94E-06
MLR	6.75E-10	1.34E-08	MLR	1.19E-07	3.74E-07
SEC	1.20E-08	6.74E-09	SEC	1.10E-07	3.60E-07
CBD	1.01E-09	-1.28E-08	CBD	1.02E-07	1.76E-07
SMR	9.07E-09	-1.02E-08	SMR	9.48E-08	1.16E-07

1. Values used to characterize pre-event conditions were drawn from the three most recent published WIPP Annual Site Environmental Reports, covering calendar years 2010, 2011, and 2012. Air samples are collected by drawing air through a filter that captures the particulate in the air. The practice at the WIPP facility is to remove these filters weekly for analysis and replace them with clean filters. Thirteen of these filters are analyzed together as what is referred to as a quarterly composite. Each composite represents one calendar quarter. Using three years' data provides twelve quarterly composites for each sampling location. This is considered to be a good number of samples for developing a statistical representation of the pre-event data. Earlier data could be added to the dataset, but progressively older data run a higher chance of being influenced by changes in human activities around the sampler locations or changes in laboratory instrumentation.

2. Negative values can appear in the table. This is common when performing analysis of environmental samples and occurs because these samples typically have very low concentrations of radioactive elements relative to the amount of radioactivity in the background. "Background" radiation, or radiation not included in the sample material can cause instruments to count disintegrations not associated with the sample material. Therefore, to correct for background, the laboratory counts disintegrations in "blanks" and subtracts the background disintegration count from the sample disintegration count. This subtraction sometimes generates negative results if there is little radioactivity in the sample.

3. Negative results are included in certain statistical data sets such as the mean or median, to prevent introducing a bias into the results. To illustrate why, imagine that you could produce 100 theoretical samples absolutely identical and absolutely free of radioactivity. A high-quality lab will provide you with 100 results, some positive, some negative, but with an average result of zero. Dropping the negative results (or assigning them all a zero value) will bias the mean and median, making them appear higher.

4. These data analyses include the negative values, which are included in the calculations as recommended in DOE guidance per DOE/EH-0173T, Section 7.3.1, Distribution Analysis, and Section 7.3.2, Measures of Central Tendency.