ENTERED

Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Wednesday, June 25, 2014 3:24 PM
To: Allen, Pam, NMENV
Subject: FW: WIPP Information - for call today
Attachments: Rough efficiency calculation from release data 2-14-14 (2).xlsx; Station A and B 72 hour Recount Charts 3-8-14.xlsx; Station A and B Filter Readings for Public Release.xlsx; Environmental Status 2014-03-09.xlsx; Station A and B Initial Release.pdf

March

From: Kliphuis, Trais, NMENV
Sent: Monday, March 10, 2014 12:43 PM
To: Flynn, Ryan, NMENV; Kendall, Jeff, NMENV
Cc: Tongate, Butch, NMENV; Winchester, Jim, NMENV; Blaine, Tom, NMENV; Schwender, Erika, NMENV; Skibitski, Thomas, NMENV; LucasKamat, Susan, NMENV; Maestas, Ricardo, NMENV; Smith, Coleman, NMENV; Holmes, Steve, NMENV
Subject: Fwd: WIPP Information - for call today

Sent from my Samsung Galaxy Note® 3

-------- Original message --------
From: Oba Vincent
Date:03/10/2014 12:40 PM (GMT-07:00)
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'
Subject: WIPP Information - for call today

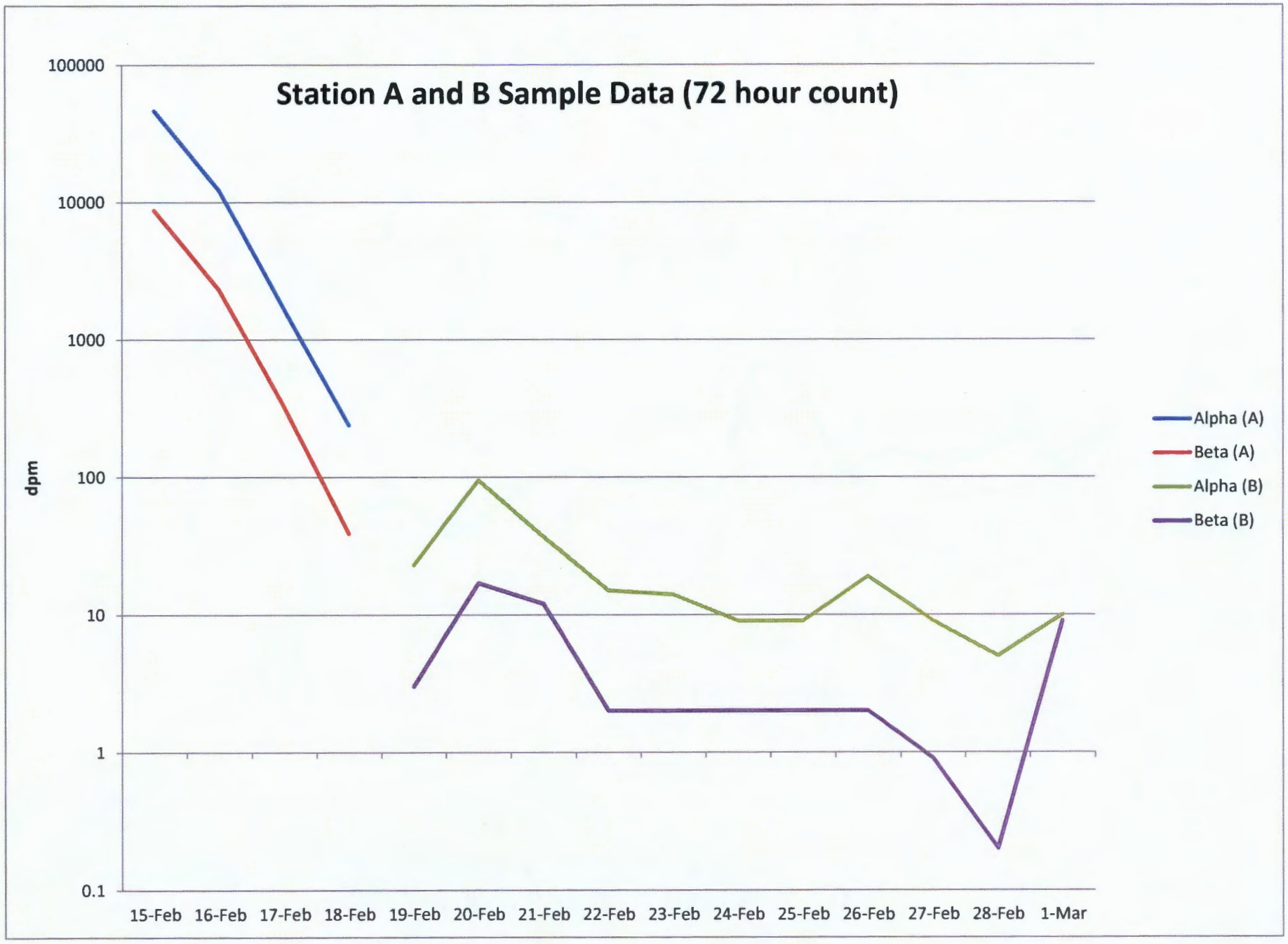
Attached are the tables and graph with the Station A and Station B data and the environmental data. I have also attached a rough calculation showing the efficiency of the ventilation system during the release as requested.

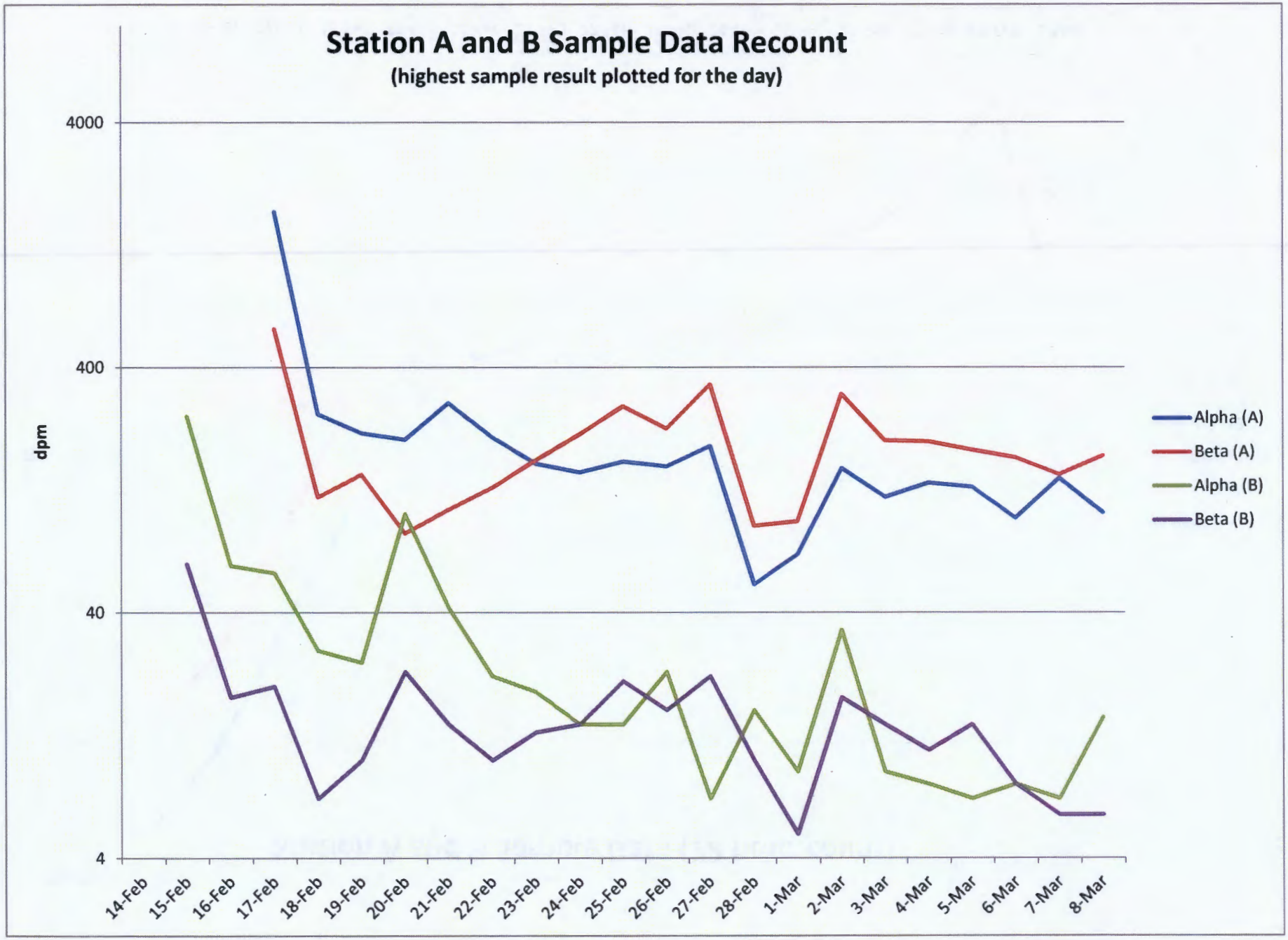
Thanks

Oba

140351

Sample #		Date;Time		Am-241 pCi/Sample	Pu-239 pCi/Sample	Flow Rate ft 3	Am-241 pCi/ft3	Pu-239 pCi/ft3		
A23021414		2/15; 1200		3.56E+06	1.29E+05	2,425	1.47E+03	5.32E+01		
B13021414		2/15; 1200		2.43E+04	1.35E+03	3,039	8.00E+00	4.44E-01		
Efficiency Calculation:										
	Americium: B pCi/ft3 divided by A pCi/ft3 =				5.45E-03	or converting to percentage (1-result)x100%=				99.45533
	Plutonium: B pCi/ft3 divided by A pCi/ft3 =				8.35E-03	or converting to percentage (1-result)x100%=				99.16493


Station A and B Sample Data (72 hour count)
dpm
100000
10000
1000
100
10
1
0.1
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
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		
16-Feb	12232	2306		
17-Feb	1660	325		
18-Feb	239	39		
19-Feb			23	3
20-Feb			95	17
21-Feb			37	12
22-Feb			15	2
23-Feb			14	2
24-Feb			9	2
25-Feb			9	2
26-Feb			19	2
27-Feb			9	0.9
28-Feb			5	0.2
1-Mar			10	9

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	Isotopic Analysis in WIPP Lab					Final
2/15/14	2/15/14 0630	2/15/14 0840	A23021514	225K	46.8K	021514/0916	Isotopic Analysis in WIPP Lab					Final
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
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
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			
2/19/14	2/19/14 0823	2/19/14 1600	A230219140823	264	443	021914/1708	130	137	021914/2046			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point A-2-3

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 1600	2/20/14 0018	A230219141600	286	378	022014/0124	150	119	02214/0352			
2/19/14	2/19/14 0018	2/20/14 0817	A230220140018	290	219	022014/1010	216	146	022014/1256			
2/20/14	2/20/14 0817	2/20/14 1624	A230220140817	135	131	0222014/1838	107	85	022014/2204			
2/20/14	2/20/14 1624	2/21/14 0012	A230220141624	231	103	022114/0154	203	84	022114/0505			
2/21/14	2/21/14 0012	2/21/14 0845	A230221140012	330	146	022114/1027	286	105	022114/1532			
2/21/14	2/21/2014 0845	2/21/2014 1620	A230221140845	253	199	022114/1654	175	86	022114/2000			
2/21/14	2/21/2014 1620	2/22/2014 0050	A230221141620	388	549	022214/0124	215	154	022214/0400			
2/22/14	2/22/2014 0050	2/22/2014 0830	A230222140050	421	599	022214/0906	180	154	022214/1150			
2/22/14	2/22/2014 0830	2/22/2014 1650	A230222140830	243	337	022214/1713	140	166	022214/2004			
2/22/14	2/22/2014 1650	2/23/2014 0011	A230222141650	487	626	022314/0047	208	129	022314/0401			
2/23/14	2/23/2014 0011	2/23/2014 0830	A230223140011	328	504	022314/0906	162	167	022314/1222			
2/23/14	2/23/2014 0830	2/23/2014 1615	A230223140830	225	340	022314/1644	Count Not Performed					
2/23/14	2/23/2014 1615	2/24/2014 0025	A230223141615	412	696	022414/0048	102	109	022414/0405			
2/24/14	2/24/2014 0025	2/24/2014 0912	A230224140025	195	309	022414/1137	149	213	022414/1540			
2/24/14	2/24/2014 0912	2/24/14 1702	A230224140912	437	740	022414/1733	141	214	022414/2031			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point A-2-3

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	2/24/14 1702	2/25/14 0005	A230224141702	429	796	022514/0029	91	138	022514/0355			
2/25/14	2/25/14 0005	2/25/14 0830	A230225140005	381	618	022514/0951	138	194	022514/1349			
2/25/14	2/25/14 0830	2/25/14 1628	A120225140830	544	962	022514/ 1730	165	277	022514/ 2000			
2/25/14	2/25/14 1628	2/26/14 0025	A230225141628	647	1140	022614/0100	161	263	022614/0407			
2/26/14	2/26/14 0025	2/26/14 0845	A230226140025	307	487	022614/ 0958	158	225	022614/1354			
2/26/14	2/26/14 0845	2/26/14 1640	A230226140845	377	579	022614/ 1729	Count Not Performed					
2/26/14	2/26/14 1640	2/27/14 0015	A230226141640	458	826	022714/ 0052	114	172	022714/ 0408			
2/27/14	2/27/14 0015	2/27/14 0903	A230227140015	685	1198	022714/ 0932	191	340	022714/ 1225			
2/27/14	2/27/2014 0903	2/27/14 1651	A230227140903	457	793	022714/1726	78	103	022814/ 0424			
2/28/14	2/27/2014 1651	2/28/14 0015	A230227141651	239	423	022812/0046	52	90	022814/ 0401			
2/28/14	2/28/14 0015	2/28/14 0835	A230228140015	81	136	030114/1032	49	81	022814/ 1417			
2/28/14	2/28/14 0835	02/28/14 1615	A230228140835	84	127	022814 / 1820	43	91	022814 / 2119			
3/1/14	2/28/14 1615	3/1/14 0104	A230228141615	133	208	022814 / 0235	60	89	030114 / 0527			
3/1/14	3/1/14 0104	3/1/14 0855	A230301140104	224	440	030114/0956	73	116	030114/1257			
3/1/14	3/1/14 0855	3/1/14 1656	A230301140855	186	354	030114/ 1756	69	94	030114/ 2109			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point A-2-3

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 1656	3/2/14 0007	A230301141656	121	213	030214/ 0107	47	55	030214/ 0512			
3/2/14	3/2/14 0007	3/2/14 0825	A230302140007	918	1638	030214/0836	122	218	030214/ 1155			
3/2/14	3/2/14 0825	3/2/14 1650	A230302140825	563	973	030214/ 1732	155	311	030214/2124			
3/2/14	3/2/14 1650	3/3/14 0106	A230302141650	359	621	030314/0158	150	258	030314/ 0537			
3/3/14	3/3/14 0106	3/3/14 0817	A230303140106	264	468	030314/ 0915	118	201	030314/ 1217			
3/3/14	3/3/14 0817	3/3/2014 1630	A230303140817	380	699	030314/ 1704	97	172	030314/ 2103			
3/3/14	3/3/2014 1630	3/4/14 0034	A230303141630	191	340	030414/ 0207	93	147	030414/ 0543			
3/4/14	3/4/14 0034	3/4/14 0817	A230304140034	479	757	030414/ 0900	135	199	030414/1130			
3/4/14	3/4/14 0817	3/4/14 1557	A230304140817	384	586	030414/ 1639	120	129	030414/ 1957			
3/4/14	3/4/14 1557	3/5/14 0022	A230304141557	399	753	030514/ 0051	74	143	030514/ 0351			
3/5/14	3/5/14 0022	3/5/14 0835	A230305140022	674	1162	030514/ 0903	112	203	030514/ 1206			
3/5/14	3/5/14 0835	3/5/14 1605	A230305140835	203	344	030514/ 1622	130	184	030514/ 2007			
3/5/14	3/5/14 1605	3/6/14 0040	A230305141600	341	599	030614/ 0109	118	168	030614/ 0403			
3/6/14	3/6/14 0040	3/6/14 0820	A230306141238	117	174	030614/ 1238	70	116	030614/2011			
3/6/14	3/6/14 0820	3/6/14 1554	A230306140820	151	244	030614/ 1725	55	85	030614/ 2349			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point A-2-3

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 1554	3/7/14 0015	A230306141554	467	894	030714/ 0039	97	171	030714/ 0401			
3/7/14	3-7-14 0015	3-7-14 1055	A230307140015	210	384	030714/1225	88	136	030714/2141			
3/7/14	3-7-14 1055	3-7-14 1635	A230307141055	231	357	030714/1749	60	63	030814/0456			
3/7/14	3-7-14 1635	3-8-14 0029	A230307141635	257	311	030814/0152	141	146	030814/0348			
3/8/14	3-8-14 0029	3-8-14 0805	A230308140029	207	289	030814/0955	88	106	030814/2140			
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			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point A-2-3

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						
2/15/14	2/15/14 0835	2/15/14 1445	B13021514	36194	7340	Data Sheet Not Available - At SRS						
2/15/14	2/15/14 1445	2/15/14 2305	B130215141445	671	142	021714/1056						
2/15/14	2/15/14 2305	2/16/14 0904	B130215142305	300	152	021614/0932	253	63	021614/1127			
2/16/14	2/16/14 0904	2/16/14 1705	B130216140904	144	67	021614/1755	111	22	021714/1201			
2/16/14	2/16/14 1705	2/17/2014 0030	B130216141705	72	54	021714/0046	62	18	021714/1203			
2/17/14	2/17/14 0030	2/17/14 0805	B130216140030	43	26	021714/0930	30 32	23 16	021714/0955 021714/1400			
2/17/14	2/17/14 0805	2/17/14 1600	B130217140805	78	35	021714/1650	58 24	20 13	021714/1958 021814/1823			
2/17/14	2/17/14 1600	2/18/14 0030	B130217141600	65	55	021814/0051	45 36	18 12	021814/0423 021814/0751			
2/18/14	2/18/14 0030	2/18/14 0901	B130218140030	42	61	021814/0928	23	12	021814/1202			
2/18/14	2/18/14 0901	2/18/14 1655	B130218140901	41	29	021814/1754	28	7	021914/0315			
2/18/14	2/18/14 1655	2/19/14 0105	B130218141655	42	36	021914/0144	20	7	021914/0547			
2/19/14	2/19/14 0105	2/19/14 0900	B130219140105	33	44	021914/0952	20	15	021914/1222	11	4	030614/ 1730
2/19/14	2/19/14 0900	2/19/14 1627	B130219140900	36	34	021914/1708	25	10	021914/2036	23	3	030614/ 1730
2/19/14	2/19/14 1627	2/20/14 0035	B130219141627	45	46	022014/0107	25	9	022014/0359	17	0.9	030614/ 1730

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point B-1-3

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	3	030614/ 1730
2/22/14	2/22/14 0810	2/22/14 1615	B130222140810	28	17	022214/1713	22	10	022214/2004	15	2	030614/ 1730
2/22/14	2/22/14 1615	2/22/14 2356	B130222141615	32	33	022314/0047	22	9	022314/0404	11	3	030614/ 1757
2/22/14	2/22/14 2356	2/23/14 0810	B130222142356	21	29	022314/0938	19	17	022314/1227	9	3	030614/ 1811
2/23/14	2/23/14 0810	2/23/14 1605	B130223140810	7	22	022314/1642	17	7	022314/2010	14	2	030614/ 1757
2/23/14	2/23/14 1605	2/24/14 0015	B130223141605	40	54	022414/0054	19	13	022414/0401	12	4	030614/ 1811
2/24/14	2/24/14 0015	2/24/14 0846	B130224140015	14	19	022414/1136	14	14	022414/1540	9	2	030614/ 1811
2/24/14	2/24/14 0846	2/24/14 1635	B130224140846	22	28	022414/1733	8	8	022414/2031	6	3	030614/ 1811
2/24/14	2/24/14 1635	2/25/14 0016	B130224141635	45	72	022514/0029	8	12	022514/0404	6	3	030614/ 1811

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point B-1-3

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	2	030614/ 1840
2/25/14	2/25/14 0902	2/25/14 1652	B130225140902	39	59	022514/ 1742	12	7	022514/ 2000	5	1	030614/ 1840
2/25/14	2/25/14 1652	2/26/14 0010	B130225141652	27	41	022614/ 0101	12	10	022614/ 0450	7	4	030614/ 1840
2/26/14	2/26/14 0010	2/26/14 0921	B130226140010	26	21	022614/ 1051	23	16	022614/ 1423	19	2	030614/ 1905
2/26/14	2/26/14 0921	2/26/2014 1616	B130226140921	22	25	022614/ 1727	Count Not Performed			6	1	030614/ 1905
2/26/14	2/26/14 1616	2/27/14 0030	B130226141616	33	59	022714/ 0129	11	14	022714/0408	4	2	030614/ 1825
2/27/14	2/27/14 0030	2/27/14 0806	B130227140030	22	37	022714/ 0929	7	22	022714/1153	1	0.2	030614/ 1825
2/27/14	2/27/14 0806	2/28/14 0012	B130227140806	27	41	022814/ 0046	16	10	022814/0401	9	0.9	030614/ 1825
2/28/14	02/28/14 0012	2/28/14 0927	B130228140012	14	20	022814 / 1024	8	5	022814/1408	4	0	030614/ 1825
2/28/14	2/28/14 0927	2/28/14 1705	B130228140927	6	7	022814 / 1825	5	3	022814/1919	5	0.2	030614/ 1825
3/1/14	2/28/14 1705	3/1/14 0144	B130228141705	16	28	030114 / 0235	6	5	030114 / 0528	3	0	030614/ 1825
3/1/14	3/1/14 0144	3/1/14 0915	B130301140144	21	35	030114/ 0957	6	8	030114/1257	2	0	030614/ 1825
3/1/14	3/1/14 0915	3/1/14 1620	B130301140915	10	10	030114/ 1735	4	1	030114/ 2110	4	0.4	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
3/2/14	3/2/14 0045	3/2/14 0850	B130302140045	51	81	030214/ 0925	19	20	030214/ 1156			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point B-1-3

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 0850	3/2/14 1630	B130302140850	51	37	030214/ 1723	34	18	030214/ 2122			
3/2/14	3/2/14 1630	3/3/14 0106	B130302141630	17	28	030314/ 0152	7	13	030314/ 0559			
3/3/14	3/3/14 0106	3/3/14 0820	B130303140106	26	39	030314/ 0855	9	14	030314/ 1217			
3/3/14	3/3/14 0820	3/3/14 1620	B130303140820	19	48	030314/ 1704	2	6	030314/ 2103			
3/3/14	3/3/14 1620	3/4/14 0114	B130303141620	22	33	030414/ 0208	5	8	030414/ 0543			
3/4/14	3/4/14 0114	3/4/14 0815	B130304140114	31	49	030414/ 0846	8	11	030414/ 1130			
3/4/14	3/4/14 0815	3/4/14 1610	B130304140815	18	26	030414/ 1639	4	4	030414/ 1957			
3/4/14	3/4/14 1610	3/5/14 0005	B130304141610	21	34	030514/ 0051	5	5	030514/ 0351			
3/5/14	3/5/14 0005	3/5/14 0810	B130305140005	26	36	030514/ 0920	7	14	030514/ 1206			
3/5/14	3/5/14 0810	3/5/14 1608	B130305140810	86	49	030514/ 1649	6	8	030514/ 2007			
3/5/14	3/5/14 1608	3/6/14 0015	B130305141608	16	29	030614/ 0109	7	9	030614/ 0403			
3/6/14	3/6/14 0015	3/6/14 0835	B130306140015	22	45	030614/ 0902	8	8	030614/ 1240			
3/6/14	3/6/14 0835	3/6/14 1620	B130306140835	18	27	030614/ 1725	1	4	030614/ 2348			
3/6/14	3/6/14 1620	3/7/14 0001	B130306141620	18	35	030714/ 0039	2	5	030714/1255			
3/7/14	3/7/2014 0001	3-7-14 1140	B13030714001	24	41	030714/1226	7	6	030814/0141			

All counts performed on a Tennelec XLB for 10 minutes.

Sample Point B-1-3

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	3-7-14 1140	3-7-14 1710	B130307141140	11	21	030714/1750	3	2	030814/0157			
3/7/14	3-7-14 1710	3-8-14 0015	B130307141710	10	15	030814/0122	3	4	030814/2331			
3/8/14	3-8-14 0015	3-8-14 0855	B130308140015	23	28	030814/0955	5	3	030914/1017			
3/8/14	3-8-14 0855	3-8-14 1750	B130308140855	22	21	030814/1815	15	6	030814/2335			
3/8/14	3-8-14 1750	3-9-14 0055	B130308141750	10	18	030914/0142	4	3	030914/1020			

Environmental Air Filter Status

(March 09, 3:05 PM)

Location	Sample ID Number	Filter Install Date	Filter Retrieval Date	Filter Operating Time (min)	Gross α / β Count: Field Smears and Surveys of Sampling Equipment and Area	Gross α / β Count: * Initial 10 Minute DPM Gross α / β Count > 200 α > 600 β	Gross α / β Count: ISOLO Spectrum Analyzer	ISOLO Spectrum Analyzer: Preliminary DPM / Final DPM	**Air Flow Volume (ft^3)	**Air Flow Volume (m^3)	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry: WIPP Labs Data Am-241 Sample Date	WIPP Labs Data Am-241 (pCi)	WIPP Labs Data Am-241 (Bq/mL)	WIPP Labs Data Am-241 (dpm/sample)	WIPP Labs Data Pu-238 Sample Date	WIPP Labs Data Pu-238 (pCi)	WIPP Labs Data Pu-238 (Bq/mL)	WIPP Labs Data Pu-238 (dpm/sample)	WIPP Labs Data Pu-239/240 Sample Date	WIPP Labs Data Pu-239/240 (pCi)	WIPP Labs Data Pu-239/240 (Bq/mL)	WIPP Labs Data Pu-239/240 (dpm/sample)
WIPP Farfield (WFF)	AL-WFF-20140212-1.1	2/11/2014	2/15/2014	916	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	1816.43	51.44	—	2/20/2014	2.20E+01	1.57E-08	4.88E+01	2/20/2014	-1.49E-03	-1.06E-12	-3.30E-03	2/20/2014	1.65E+00	1.18E-09	3.67E+00
								36					22 +/- 2.37		48.8 +/- 5.27		-0.001 +/- 0.073		-0.003 +/- 0.182		1.65 +/- 0.595		3.67 +/- 1.32
WIPP Farfield (WFF)	AL-WFF-20140219-1.1	2/15/2014	2/18/2014	4306	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	8568.94	242.65	—	3/5/2014	1.22E-01	1.85E-11	2.70E-01	3/5/2014	-2.76E-03	-4.19E-13	-6.13E-03	3/5/2014	4.64E-03	7.04E-13	1.03E-02
								2.4					1.22E-01 +/- 3.18E-02		2.70E-01 +/- 7.05E-02		-2.76E-03 +/- 3.64E-03		-6.13E-03 +/- 8.09E-03		4.64E-03 +/- 8.78E-03		1.03E-02 +/- 1.95E-02
WIPP East (WEE)	AL-WEE-20140212-1.1	2/11/2014	2/17/2014	3783	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	7.29	7376.85	208.89	—	3/5/2014	2.58E-01	4.46E-11	5.73E-01	3/5/2014	4.40E-04	7.59E-14	9.76E-04	3/5/2014	1.39E-02	2.40E-12	3.08E-02
								4.4					2.58E-01 +/- 4.07E-02		5.73E-01 +/- 9.03E-02		4.40E-04 +/- 3.60E-03		9.76E-04 +/- 7.99E-03		1.39E-02 +/- 9.55E-03		3.08E-02 +/- 2.12E-02
WIPP South (WSS)	AL-WSS-20140212-1.1	2/11/2014	2/17/2014	3754	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	7.47	7339.07	207.82	—	3/5/2014	6.35E-02	1.11E-11	1.41E-01	3/5/2014	-9.68E-04	-1.69E-13	-2.15E-03	3/5/2014	5.77E-03	1.00E-12	1.28E-02
								3.7					6.35E-02 +/- 2.20E-02		1.41E-01 +/- 4.88E-02		-9.68E-04 +/- 2.33E-03		-2.15E-03 +/- 5.18E-03		5.77E-03 +/- 6.53E-03		1.28E-02 +/- 1.45E-02
Mills Ranch (MLR)	AL-MLR-20140212-1.1	2/11/2014	2/18/2014	4950	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	9504.00	269.12	—	3/5/2014	7.07E-03	9.33E-13	1.57E-02	3/5/2014	1.28E-03	1.69E-13	2.84E-03	3/5/2014	1.16E-03	1.53E-13	2.58E-03
								2.7					7.07E-03 +/- 1.04E-02		1.57E-02 +/- 2.31E-02		1.28E-03 +/- 6.26E-03		2.84E-03 +/- 1.39E-02		1.16E-03 +/- 5.77E-03		2.58E-03 +/- 1.28E-02
Smith Ranch (SMR)	AL-SMR-20140212-1.1	2/11/2014	2/18/2014	4907	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	9568.65	270.95	—	3/5/2014	1.10E-01	1.46E-11	2.44E-01	3/5/2014	-1.14E-03	-1.51E-13	-2.52E-03	3/5/2014	6.22E-03	8.28E-13	1.38E-02
								4.2					1.10E-01 +/- 2.84E-02		2.44E-01 +/- 6.31E-02		-1.14E-03 +/- 1.18E-02		-2.52E-03 +/- 2.62E-02		6.22E-03 +/- 9.14E-03		1.38E-02 +/- 2.03E-02
Carlsbad (CBD)	AL-CBD-20140212-1.1	2/11/2014	2/18/2014	4884	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	9290.24	263.07	—	3/5/2014	1.00E-02	1.35E-12	2.23E-02	3/5/2014	-4.26E-03	-5.72E-13	-9.45E-03	3/5/2014	2.74E-04	3.68E-14	6.09E-04
								1.6					1.00E-02 +/- 1.22E-02		2.23E-02 +/- 2.70E-02		-4.26E-03 +/- 7.48E-03		-9.45E-03 +/- 1.66E-02		2.74E-04 +/- 5.77E-03		6.09E-04 +/- 1.28E-02
South East Control (SEC)	AL-SEC-20140212-1.2	2/11/2014	2/18/2014	4978	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	9408.42	266.42	—	3/5/2014	1.33E-02	1.74E-12	2.95E-02	3/5/2014	6.08E-03	7.98E-13	1.35E-02	3/5/2014	-1.48E-03	-1.94E-13	-3.29E-03
								1.3					1.33E-02 +/- 1.30E-02		2.95E-02 +/- 2.88E-02		6.08E-03 +/- 1.11E-02		1.35E-02 +/- 2.46E-02		-1.48E-03 +/- 3.79E-03		-3.29E-03 +/- 8.41E-03
South East Control (SEC) Co-located sample	AL-SEC-20140212-2.2	2/11/2014	2/18/2014	4987	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	—	9575.04	271.13	—	3/5/2014	9.55E-03	1.25E-12	2.12E-02	3/5/2014	-1.14E-03	-1.49E-13	-2.52E-03	3/5/2014	5.14E-03	6.73E-13	1.14E-02
								1.5					9.55E-03 +/- 1.16E-02		2.12E-02 +/- 2.57E-02		-1.14E-03 +/- 8.29E-03		-2.52E-03 +/- 1.84E-02		5.14E-03 +/- 9.10E-03		1.14E-02 +/- 2.02E-02
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	2/18/2014	2/26/2014	11195	—	—	—	—	23061.70	653.03	1.89	3/7/2014											
								—															
WIPP East (WEE)	AL-WEE-20140219-1.1	2/17/2014	2/26/2014	12658	—	—	—	—	26075.48	738.38	2.48	3/7/2014											
								—															
WIPP South (WSS)	AL-WSS-20140219-1.1	2/17/2014	2/26/2014	12702	—	—	—	—	25785.06	730.15	2.23	3/7/2014											
								—															
Mills Ranch (MLR)	AL-MLR-20140219-1.1	2/18/2014	2/26/2014	11528	—	—	—	—	23862.96	675.72	2.57	3/7/2014											
								—															
Carlsbad (CBD)	AL-CBD-20140219-1.1	2/18/2014	2/26/2014	11800	—	—	—	—	22420.00	634.86	2.23	3/7/2014											
								—															
Smith Ranch (SMR)	AL-SMR-20140219-1.1	2/18/2014	2/26/2014	11722	—	—	—	—	23444.00	663.86	1.12	3/7/2014											
								—															
South East Control	AL-SEC-20140219-1.2	2/18/2014	2/26/2014	11520	—	—	—	—	23846.40	675.25	2.66	3/7/2014											
								—															
South East Control (SEC) Co-located sample	AL-SEC-20140219-2.2	2/18/2014	2/26/2014	11518	—	—	—	—	22690.46	642.52	1.38	3/7/2014											
								—															
WIPP Far Field (WFF)	AL-WFF-20140226-1.1	2/26/2014	3/4/2014	8585	—	—	—	—	16826.60	476.48													
								—															
WIPP East (WEE)	AL-WEE-20140226-1.1	2/26/2014	3/4/2014	8582	—	—	—	—	16906.54	478.74													
								—															
WIPP South (WSS)	AL-WSS-20140226-1.1	2/26/2014	3/4/2014	8589	—	—	—	—	16748.55	474.27													
								—															
Mills Ranch (MLR)	AL-MLR-20140226-1.1	2/26/2014	3/4/2014	8581	—	—	—	—	16818.76	476.25													
								—															
Carlsbad (CBD)	AL-CBD-20140226-1.1	2/26/2014	3/4/2014	8469	—	—	—	—	16599.24	470.04													
								—															
Smith Ranch (SMR)	AL-SMR-20140226-1.1	2/26/2014	3/4/2014	8644	—	—	—	—	17028.68	482.20													
								—															
South East Control	AL-SEC-20140226-1.2	2/26/2014	3/4/2014	8581	—	—	—	—	16818.76	476.25													
								—															
South East Control (SEC) Co-located sample	AL-SEC-20140226-2.2	2/26/2014	3/4/2014	8580	—	—	—	—	16988.40	481.06													

					—	—	—	—															
WIPP Far Field (WFF)	AL-WFF-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
WIPP East (WEE)	AL-WEE-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
WIPP South (WSS)	AL-WSS-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
Mills Ranch (MLR)	AL-MLR-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
Carlsbad (CBD)	AL-CBD-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
Smith Ranch (SMR)	AL-SMR-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
South East Control	AL-SEC-20140304-1.2	3/4/2014	3/11/2014		—	—	—	— —															
South East Control (SEC) Co-located sample	AL-SEC-20140304-2.2	3/4/2014	3/11/2014		—	—	—	— —															
Met Tower (MET)	AL-MET-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
Salt Shaft (SLT)	AL-SLT-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															
Station B - Environmental (STB)	AL-STB-20140304-1.1	3/4/2014	3/11/2014		—	—	—	— —															

* These are screening values that will inform filter counting staff that there appears to be reading that could be above background and further evaluation is necessary.
** Filter volumes based on an adjusted elapsed time from the release event occurring at 23:30 hours on 2/14/14 to the time of removal from the filter housing.

Environmental Surface Water Analytical Status

(March 09, 2014, 2:10 PM)

Location	Sample ID	Media	Sample Date	Lab Submittal Date	Radiochemistry				
					Data from WIPP Labs	Pu-238 Bq/g x 10^{-4}		Pu-239/240 Bq/g x 10^{-4}	
						Baseline Value**	Sample	Baseline Value**	Sample
Evaporation Basin A	WS-EBA-20140219-1.2	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
Evaporation Basin A	WS-EBA-20140219-2.2	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
Salt Pile Evaporation Pond	WS-SPE-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
Salt Storage Extension Basin I	WS-EB1-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
Salt Storage Extension II	WS-EB2-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
SWIC Pond 1	WS-PD1-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
SWIC Pond 2	WS-PD2-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =
Blank	WS-BLK-20140219-1.1	Surface water	2/19/2014	2/19/2014	3/14/2014	Mean = -0.004	Value =	Mean = -0.006	Value =
						σ = 0.085	TPU =	σ = 0.041	TPU =

** These values are from the DOE/WIPP 92-037, Attachment 1, Statistical Summary of the Radiological Baseline for the WIPP, Table 5-1. These values were derived from the summary statistics for samples at all locations in the baseline. The Units are noted as Becquerels per gram x 10^{-4}.

TPU = Total Propagated Uncertainty

Surface water samples for this statistical baseline summary were obtained from three groups for geographic variability. The statistical baseline presented above is for all locations: 1) Stock Tanks, 2) Pecos River, and 3) Laguna Grande de la Sal.

Environmental Soil Sample Analytical Status

(March 09, 2014, 2:10 PM)

Location/Depth	Sample ID	Matrix Sample Date		Lab Submittal Date	Radiochemistry						
					Data from WIPP Labs	Am-241 Bq/g x 10^{-3}		Pu-238 Bq/g x 10^{-3}		Pu-239/240 Bq/g x 10^{-3}	
						Baseline Value	Sample	Baseline Value	Sample	Baseline Value	Sample
Far Field Surface Sample (0-2 cm)	SS-WFF-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Far Field Deep Sample (5-10 cm)	SD-WFF-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140213-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140214-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140214-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140214-1.1	Soil	2/13/2014	2/17/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-1.2	Soil	2/17/2014	2/18/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-2.2	Soil	2/17/2014	2/18/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140217-1.1	Soil	2/17/2014	2/18/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140217-1.1	Soil	2/17/2014	2/18/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Mills Ranch Surface Sample (0-2 cm)	SS-MLR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Smith Ranch Surface Sample (0-2 cm)	SS-SMR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-1.2	Soil	2/20/2014	2/20/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-2.2	Soil	2/20/2014	2/20/2014	3/13/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =

* These values are from the DOE/WIPP 92-037, Attachment 1, Statistical Summary of the Radiological Baseline for the WIPP, Table 4-1. These values were derived from adding the mean plus the standard deviation value. The Units are noted as Becquerels per gram x 10^{-3}

** Soils sample radiochemistry statistics are a summary of samples obtained in three groups representing different geographic groups on a regional scale: 1) within 1 kilometer of the Waste Handling Building, 2) 8 kilometers centered at the WIPP site, and 3) Area coverage of approximately 10,000 square kilometers.

TPU = Total Propagated Uncertainty

Environmental Vegetation Analytical Status

(March 09, 2014, 2:10 PM)

Location	Sample ID	Media	Sample Date	Lab Submittal Date	Radiochemistry				
					Data from WIPP Labs	Pu-238 Bq/g x 10^{-3}		Pu-239/240 Bq/g x 10^{-3}	
						Baseline Value**	Sample	Baseline Value**	Sample
WIPP Far Field	BV-WFF-20140221-1.2	Vegetation	2/21/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
WIPP Far Field (Duplicate)	BV-WFF-20140221-2.2	Vegetation	2/21/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
WIPP East	BV-WEE-20140222-1.1	Vegetation	2/21/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
WIPP South	BV-WSS-20140222-1.1	Vegetation	2/22/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
Smith Ranch	BV-SMR-20140222-1.1	Vegetation	2/22/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
Mills Ranch	BV-MLR-20140222-1.1	Vegetation	2/22/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =
Southeast Control	BV-SEC-2014022-1.2	Vegetation	2/22/2014	2/24/2014	3/17/2014	Mean = 0.0	Value =	Mean = 0.37	Value =
						σ = 1.8	TPU =	σ = 0.36	TPU =

** These values are from the DOE/WIPP 92-037, Attachment 1, Statistical Summary of the Radiological Baseline for the WIPP, Table 7-1. These values were derived from the summary statistics for samples at all three (3) locations that were sampled twice for the baseline. The Units are noted as Becquerels per gram x 10^{-3}.

TPU = Total Propagated Uncertainty

BK 2-18-14

2-18-14

Entered by Date

HMK 2-18-14

Reviewed by Date

Mmy 2-18-14

QA Reviewed Date

SECTION 4

SAMPLE RESULT SUMMARY

SDG:	2014-067
Batch:	SP14-02-15
Client:	Rad Con
Lab Id:	C7813
Client Id:	A23021414
Matrix:	Air Filter
Collect Date:	2/15/2014
Collect Time:	12:00

ISOTOPE	Activity pCi/sample	2 σ TPU pCi/sample	1 σ TPU pCi/sample	MDC pCi/sample	ID Confidence	Qualifier
$^{233/234}U$	2.12E+00	7.80E-01	3.98E-01	2.56E-01	NA	=
^{235}U	1.23E-01	1.84E-01	9.37E-02	2.37E-01	NA	U
^{238}U	3.30E-02	1.19E-01	6.06E-02	2.26E-01	NA	U
^{238}Pu	5.58E+03	9.42E+01	4.80E+01	NA	NA	J
$^{239/240}Pu$	1.29E+05	4.52E+02	2.31E+02	NA	NA	J
^{241}Am	3.56E+06	5.43E+05	2.77E+05	5.25E+02	1.000	=
^{90}Sr	-1.20E+00	1.97E+00	1.00E+00	1.12E+00	NA	U
^{60}Co	-3.58E+00	1.21E+01	6.17E+00	1.19E+01	0.000	U
^{134}Cs	-8.31E+00	1.13E+01	5.77E+00	1.15E+01	0.000	U
^{137}Cs	8.96E+00	6.81E+00	3.47E+00	9.59E+00	0.982	UJ
^{228}Th	7.38E+01	4.45E+01	2.27E+01	4.26E+00	NA	=
^{230}Th	6.33E-01	8.61E-01	4.39E-01	1.06E+00	NA	U
^{232}Th	-5.79E-03	2.80E-01	1.43E-01	1.05E+00	NA	U

ISOTOPE	2 σ TPU	/	1.96 =	1 σ TPU
^{60}Co	1.21E+01	/	1.96	6.17E+00
^{134}Cs	1.13E+01	/	1.96	5.77E+00
^{137}Cs	6.81E+00	/	1.96	3.47E+00

BK 2-18-14

2-18-14

Entered by Date

HMIC 2-18-14

Reviewed by Date

2-18-14

QA Reviewed by Date

SECTION 4

SAMPLE RESULT SUMMARY

SDG:	2014-067
Batch:	SP14-02-15
Client:	Rad Con
Lab Id:	C7814
Client Id:	A23021514
Matrix:	Air Filter
Collect Date:	2/15/2014
Collect Time:	12:00

ISOTOPE		Activity pCi/sample	2 σ TPU pCi/sample	1 σ TPU pCi/sample	MDC pCi/sample	ID Confidence	Qualifier
$^{233/234}U$	**	6.36E+00	4.17E-01	2.13E-01	5.69E-02	NA	NJ
^{235}U	**	3.36E-01	9.91E-02	5.05E-02	3.67E-02	NA	NJ
^{238}U	**	2.12E-01	7.08E-02	3.61E-02	2.96E-02	NA	NJ
^{238}Pu		2.31E+02	2.14E+01	1.09E+01	NA	NA	J
$^{239/240}Pu$		5.24E+03	9.96E+01	5.08E+01	NA	NA	J
^{241}Am		9.06E+04	1.38E+04	7.04E+03	2.15E+02	0.999	=
^{90}Sr		-1.42E+00	1.86E+00	9.49E-01	1.11E+00	NA	U
^{60}Co		2.81E+00	5.13E+00	2.62E+00	8.07E+00	0.000	U
^{134}Cs		-8.82E-02	6.50E+00	3.32E+00	7.97E+00	0.000	U
^{137}Cs		4.32E+00	4.78E+00	2.44E+00	7.19E+00	0.000	U
^{228}Th		1.32E+00	1.76E+00	8.96E-01	2.51E+00	NA	U
^{230}Th		6.01E-01	8.31E-01	4.24E-01	9.94E-01	NA	U
^{232}Th		1.95E-01	5.12E-01	2.61E-01	9.91E-01	NA	U
^{241}Pu		7.25E+03	1.80E+01	9.17E+00	NA	NA	J

ISOTOPE	2 σ TPU	/	1.96 =	1 σ TPU
^{60}Co	5.13E+00	/	1.96	2.62E+00
^{134}Cs	6.50E+00	/	1.96	3.32E+00
^{137}Cs	4.78E+00	/	1.96	2.44E+00

** Uranium values were cross-contaminated due to extremely high activity samples thus the results are likely biased high

BK 2-18-14

CW 2-18-14

Entered by Date

HMK 2-18-14

Reviewed by Date

MMy 2-18-14

QA Reviewed by Date

SECTION 4

SAMPLE RESULT SUMMARY

SDG:	2014-067
Batch:	SP14-02-15
Client:	Rad Con
Lab Id:	C7815
Client Id:	B13021414
Matrix:	Air Filter
Collect Date:	2/15/2014
Collect Time:	12:00

ISOTOPE	Activity pCi/sample	2 σ TPU pCi/sample	1 σ TPU pCi/sample	MDC pCi/sample	ID Confidence	Qualifier
$^{233/234}U$	5.08E-01	3.51E-01	1.79E-01	3.10E-01	NA	=
^{235}U	-2.41E-02	7.84E-02	4.00E-02	3.26E-01	NA	U
^{238}U	4.37E-02	1.14E-01	5.82E-02	2.16E-01	NA	U
^{238}Pu	6.95E+01	9.93E+00	5.07E+00	NA	NA	J
$^{239/240}Pu$	1.35E+03	4.25E+01	2.17E+01	NA	NA	J
^{241}Am	2.43E+04	3.70E+03	1.89E+03	7.74E+01	1.000	=
^{90}Sr	-8.11E-01	1.79E+00	9.15E-01	1.11E+00	NA	U
^{60}Co	-6.33E+00	1.41E+01	7.19E+00	1.38E+01	0.000	U
^{134}Cs	-4.03E+00	9.32E+00	4.76E+00	9.88E+00	0.000	U
^{137}Cs	-1.57E+00	8.08E+00	4.12E+00	9.42E+00	0.000	U
^{228}Th	7.78E+01	3.03E+01	1.55E+01	1.25E+00	NA	=
^{230}Th	6.34E-01	6.22E-01	3.17E-01	6.15E-01	NA	=
^{232}Th	2.52E-01	3.87E-01	1.97E-01	5.38E-01	NA	U

ISOTOPE	2 σ TPU	/	1.96 =	1 σ TPU
^{60}Co	1.41E+01	/	1.96	7.19E+00
^{134}Cs	9.32E+00	/	1.96	4.76E+00
^{137}Cs	8.08E+00	/	1.96	4.12E+00

Attachment 4 – Request for Analysis/Chain-of-Custody Record

Sampling program: ☒ Radiological Control ☐ SEC **COC Number:** 14-0127 **Page** 1 **of** 1

SAMPLE IDENTIFICATION NUMBER	SAMPLE TYPE	SAMPLE VOL. FT.^{3}	ANALYSIS TYPE	SPECIAL INSTRUCTIONS
A23021414	Air	2425	Gross α & β⁻	collected 2-15-14
A23021514	↓	260	↓	↓
B13021414	↓	3039	↓	↓

TURNAROUND TIME REQUIRED: NORMAL _____ RUSH: ✓

1. Relinquished by: S. Acosta (Printed Name) S. Acosta (Signature) 2-15-14 / 1404 (Date/Time)
   1. Received by: Simran Thompson (Printed Name) [signature] (Signature) 02/15/14 1404 (Date/Time)
2. Relinquished by: _____ (Printed Name) _____ (Signature) _____ (Date/Time)
   2. Received by: _____ (Printed Name) _____ (Signature) _____ (Date/Time)
3. Relinquished by; _____ (Printed Name) _____ (Signature) _____ (Date/Time)
   3. Received by: _____ (Printed Name) _____ (Signature) _____ (Date/Time)

Attachment 1 – Qualifier Codes

CODE	EXPLANATION
U	Nuclide considered not detected above the reported MDC and 2 sigma counting uncertainty
J	Nuclide identified; the associated numerical value is approximated
UJ	Nuclide not detected above the reported MDC or 2 sigma counting uncertainty, and a quality deficiency affects the data, making the reported data more uncertain
NJ	Nuclide present at an estimated quantity
R	Result is not usable for its intended purpose
=	This sign indicates that no qualifier is necessary
D	Result is greater than the DLC and 2 sigma counting uncertainty