ENTERED

Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Thursday, March 06, 2014 2:44 PM
To: Allen, Pam, NMENV
Subject: FW: Information for todays call
Attachments: Feb 14 Release Calculation Rev1.docx; Names Excluded Event Bioassay Schedule Feb 24 2014 (2).docx; Seismic SDD and Data.pdf; PAS Spreadsheet 2 27 14.xlsx; CEMRC DOE and NMED Sampling Results 02-27-14.xlsx; Rev 4 Environmental Status 2 27 14.xlsx; Station A and B data (recount) one point per day (highest reading) 2 27 14.xlsx; Station A and B Filter Readings 2 27 14.xlsx; EPA Discussion Items and Requests 27 Feb 2014.docx

Email and attachment for WIPP file

From: Kliphuis, Trais, NMENV
Sent: Friday, February 28, 2014 1:40 PM
To: Kieling, John, NMENV; Blaine, Tom, NMENV; Tongate, Butch, NMENV; Schwender, Erika, NMENV; Skibitski, Thomas, NMENV; LucasKamat, Susan, NMENV
Cc: Maestas, Ricardo, NMENV
Subject: FW: Information for todays call

Trais Kliphuis
WIPP Staff Manager
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive E, Building 1
Santa Fe, New Mexico 87505

Office: 505-476-6051
Front Desk: 505-476-6000

From: Oba Vincent [mailto:oba.vincent@cbfo.doe.gov]
Sent: Friday, February 28, 2014 12:37 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
Cc: George Basabilvazo - WIPPNet; 'Reynolds, Tammy - NWP (Tammy.Reynolds@wipp.ws)'; 'Pace, Berry (Berry.Pace@wipp.ws)'; 'Alton.Harris@em.doe.gov'; 'Joe Harvill (jharvill@portageinc.com)'; 'Kennedy, Scott - NWP (Scott.Kennedy@wipp.ws)'; 'Jones, Stewart - RES'
Subject: Information for todays call

Attached are sampling results, a list of the questions from yesterday and other requested information (including Rev 1 of the offsite dose estimate).

Thanks

Oba

140270

Preliminary Information-Not for Public Release

PAS 1610- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/20/2014	2/20/14 2010	2/20/14 0024	16100220142010	Tennelec XLB	10 Mins	120	212	022114/0148	72 hours	0.3	2.31	On-Site
2/21/2014	2/21/14 0024	2/21/14 0410	16100221140024	Tennelec XLB	10 Mins	244	518	022114 0424	72 hours	0	0.38	On-Site
2/21/2014	2/21/14 0410	2/21/14 0822	1610021140410	Tennelec XLB	10 Mins	118	221	022114/0905	72 hours	0.4	-1.73	On-Site
2/21/2014	2/21/14 0822	2/21/14 1218	16100221140822	Tennelec XLB	10 Mins	114	176	022114/1236	72 hours	0	-2.11	On-Site
2/21/2014	2/21/14 1218	2/21/14 1554	16100221141218	Tennelec XLB	10 Mins	202	376	022114/1625	72 hours	0	-3.27	On-Site
2/21/2014	2/21/14 1554	2/21/14 1959	16100221141554	Tennelec XLB	10 Mins	287	532	022114/2030	72 hours	0.6	-0.38	On-Site
2/21/2014	2/21/14 1959	2/22/14 0009	16100221141959	Tennelec XLB	10 Mins	748	1406	2/22/14 0021				On-Site
2/22/2014	2/22/14 0009	2/22/14 0409	16100222140009	Tennelec XLB	10 Mins	1062	2080	2/22/14 0422	72 Hour	0.25	0.19	On-Site
2/22/2014	2/22/14 0409	2/22/14 0820	16100222140409	Tennelec XLB	10 Mins	159	282	2/22/14 1424	72 Hour	2.23	5.1	On-Site
2/22/2014	2/22/14 0820	2/22/14 1155	16100222140820	Tennelec XLB	10 Mins	296	528	2/22/14 1224	72 Hour	-0.52	-2.16	On-Site
2/22/2014	2/22/14 1155	2/22/14 1617	16100222141155	Tennelec XLB	10 Mins	158	299	2/22/14 1651	72 hour	-0.26	0.39	On-Site
2/22/2014	2/22/14 1617	2/22/14 2023	16100222141617	Tennelec XLB	10 Mins	360	590	2/22/14 2048	72 Hour	-0.26	0	On-Site
2/22/2014	2/22/14 2023	2/23/14 0000	16100222142023	Tennelec XLB	10 Mins	652	1209	2/22/14 0014	72 Hour	2.3	4.04	On-Site
2/23/2014	2/23/14 0000	2/23/14 0400	16100223140000	Tennelec XLB	10 Mins	984	1744	2/23/14 0422	022614/2108	0.26	0.58	On-Site
2/23/2014	2/23/14 0400	2/23/14 1203	16100223140400	Tennelec XLB	10 Mins	304	569	2/23/14 1315	2/23/14 1630	124	238	On-Site

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information-Not for Public Release

PAS 1610- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/23/2014	2/23/14 1203	2/23/14 2013	16100223141203	Tennelec XLB	10 Mins	301	541	022314/ 2047	22414/ 0100	57	143	On-Site
2/23/2014	2/23/14 2013	2/24/14 0402	16100223142013	Tennelec XLB	10 Mins	755	1451	022414/0430	22714/ 0113	0.51	2.11	On-Site
2/24/2014	2/24/14 0402	2/24/14 0812	16100224140402	Tennelec XLB	10 Mins	160	339	022414/ 1058				On-Site
2/24/2014	2/24/14 0812	2/24/14 1615	16100224140812	Tennelec XLB	10 Mins	178	328	022414/ 1657	022414/ 2007	84	153	On-Site
2/24/2014	2/24/14 1615	2/25/14 0003	16100224141615	Tennelec XLB	10 Mins	835	1493	022414/ 0018	022514/ 0401	93	187	On-Site
2/25/2014	2/25/14 0003	2/25/14 0819	16100225140003	Tennelec XLB	10 Mins	368	681	022514/ 0956				On-Site
2/25/2014	2/25/14 0819	2/25/14 1628	16100225140819	Tennelec XLB	10 Mins	464	846	022514/ 1742	022514/ 2206	169	328	On-Site
2/25/2014	2/25/14 1628	2/26/14 0013	16100225141628	Tennelec XLB	10 Mins	626	1147	022614/ 0031	022614/ 0406	131	251	On-Site
2/26/2014	2/26/14 0013	2/26/14 0823	16100226140013	Tennelec XLB	10 Mins	185	357	022614/ 1035				On-Site
2/26/2014	2/26/14 0823	2/26/14 1615	16100226140823	Tennelec XLB	10 Mins	356	627	022614/ 1642				On-Site
2/26/2014	2/26/14 1615	2/27/14 0015	16100226141615	Tennelec XLB	10 Mins	713	1222	022714/0039	022714/0015	91	151	On-Site
2/27/2014	2/27/14 0015	2/27/14 0822	1610022140015	Tennelec XLB	10 Mins	334	594					

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 0861- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/20/2014	2/20/14 1638	2/20/14 2012	8610220141638	Tennelec XLB	10 Mins	265	480		72 hours	0.1	-0.98	On-Site
2/20/2014	2/20/14 2012	2/21/14 2130	8610220142012	Tennelec XLB	10 Mins		Instrument was down 3 hours					
2/21/2014	2/21/14 0030	2/21/14 0410	8610221140030	Tennelec XLB	10 Mins	606	1220	022114/ 0420				On-Site
2/21/2014	2/21/14 0410	2/21/14 0825	8610221140410	Tennelec XLB	10 Mins	332	563	022114/ 0905				On-Site
2/21/2014	2/21/14 0825	2/21/14 1221	8610221140825	Tennelec XLB	10 Mins	301	556	022114/ 1236				On-Site
2/21/2014	2/21/14 1221	2/21/14 1553	8610221141221	Tennelec XLB	10 Mins	169	275	2/21/2014				On-Site
2/21/2014	2/21/14 1553	2/21/14 2000	8610221141553	Tennelec XLB	10 Mins	435	775	022114/ 2048				On-Site
2/21/2014	2/21/14 2000	2/22/14 0009	8610221142000	Tennelec XLB	10 Mins	990	1821	022214/ 0027				On-Site
2/22/2014	2/22/14 0009	2/22/14 0409	8610222140009	Tennelec XLB	10 Mins	1241	2434	022214/ 0418	72 hours	0.25	0.19	On-Site
2/22/2014	2/22/14 0409	2/22/14 0822	8610222140409	Tennelec XLB	10 Mins	162	309	022214/ 1424	72 hours	0.39	-0.84	On-Site
2/22/2014	2/22/14 0822	2/22/14 1158	8610222140822	Tennelec XLB	10 Mins	551	1008	022214/ 1254	72 hours	0	-1.76	On-Site
2/22/2014	2/22/14 1158	2/22/14 1616	8610222141158	Tennelec XLB	10 Mins	44	88	022214/ 1651	72 hours	-0.26	-0.2	On-Site
2/22/2014	2-22-14 1616	2/22/14 2025	8610222141616	Tennelec XLB	10 Mins	459	910	022214/ 2050				On-Site
2/22/2014	2/22/14 2025	2/23/14 0000	8610222142025	Tennelec XLB	10 Mins	623	1141	022314/ 0016	72 hours	0.26	-0.77	On-Site
2/23/2014	2/23/14 0000	2/23/14 0400	8610223140000	Tennelec XLB	10 Mins	916	1659	022314/ 0418	022717/2108	0.77	0.96	On-Site

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 0861- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/23/2014	2/23/14 0400	2/23/14 1204	8610223140400	Tennelec XLB	10 Mins	320	539	022314/ 1338	022714/ 0128	0.78	2.55	On-Site
2/23/2014	2/23/14 1204	2/23/14 2013	8610223141204	Tennelec XLB	10 Mins	484	861	022314/ 2052	022714/ 0112	0.51	1.73	On-Site
2/23/2014	2/23/14 2013	2/24/14 0402	8610223142013	Tennelec XLB	10 Mins	1017	1824	022414/ 0427	022714/ 0128	1	3	On-Site
2/24/2014	2/24/14 0402	2/24/14 0815	8610224140402	Tennelec XLB	10 Mins	519	975	022414/ 0954				On-Site
2/24/2014	2/24/14 0815	2/24/14 1615	8610224140815	Tennelec XLB	10 Mins	365	660	022414/ 1657	022414/ 2004	103	187	On-Site
2/24/2014	2/24/14 1615	2/25/14 0003	8610224141615	Tennelec XLB	10 Mins	1162	2114	022514/ 0027	022514/ 0406	143	259	On-Site
2/25/2014	2/25/14 0003	2/25/14 0826	8610225140003	Tennelec XLB	10 Mins	978	1712	022514/ 0927				On-Site
2/25/2014	2/25/14 0826	2/25/14 1625	8610225140826	Tennelec XLB	10 Mins	499	880	022514/ 1749	022514/ 2206	185	380	On-Site
2/25/2014	2/25/14 1625	2/26/14 0013	8610225141625	Tennelec XLB	10 Mins	677	1157	022614/ 0033	022614/ 0407	181	329	On-Site
2/26/2014	2/26/14 0013	2/26/14 0820	8610226140013	Tennelec XLB	10 Mins	330	581	022614/ 0945				On-Site
2/26/2014	2/26/14 0820	2/26/14 1615	8610226140820	Tennelec XLB	10 Mins	263	493	022614/ 1716	022714/0015	125	224	On-Site
2/26/2014	2/26/14 1615	2/27/14 0003	8610226141615	Tennelec XLB	10 Mins	658	1209	022714/0039	022714/0430	169	374	On-Site
2/27/2014	2/27/14 0015	2/27/14 0821	8610227140015	Tennelec XLB	10 Mins	840	1426	022714/0923				

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 0861- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 0862- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/21/2014	2/21/14 0819	2/21/14 1217	860221140819	Tennelec XLB	10 Mins	195	370		72 hours	0.2	1.35	On-Site
2/21/2014	2/21/14 1217	2/21/14 1551	8620221141217	Tennelec XLB	10 Mins	282	539		72 hours	0.1	-1.15	On-Site
2/21/2014	2/21/14 1551	2/21/14 1959	8620221141551	Tennelec XLB	10 Mins	293	505		72 hours	0	-1.54	On-Site
2/21/2014	2/21/14 1959	2/22/14 0009	8620221141959	Tennelec XLB	10 Mins	751	1404					On-Site
2/21/2014	2/22/14 0009	2/22/14 0409	8620222140009	Tennelec XLB	10 Mins	1241	2434		72 hours	0.76	1.5	On-Site
2/22/2014	2/22/14 0409	2/22/14 0819	8620222140409	Tennelec XLB	10 Mins	74	139	022214/1424	72 hours	1.44	1.93	On-Site
2/22/2014	2/22/14 0819	2/22/14 1156	8620222140819	Tennelec XLB	10 Mins	313	524	022214/1224	72 hours	-0.52	-0.59	On-Site
2/22/2014	2/22/14 1156	2/22/14 1614	8620222141156	Tennelec XLB	10 Mins	28	39	022214/1651				On-Site
2/22/2014	2/22/14 1614	2/22/14 2025	8620222141614	Tennelec XLB	10 Mins	304	558		72 hours	0	-0.98	On-Site
2/22/2014	2/22/14 2025	2/23/14 0000	8620222142025	Tennelec XLB	10 Mins	645	1152		73 hours	0.26	-1.15	On-Site
2/23/2014	2/23/14 0000	2/23/14 0400	8620223140000	Tennelec XLB	10 Mins	875	1372	022314/1352	02614/2108	1.53	-0.58	On-Site
2/23/2014	2/23/14 0400	2/23/14 1206	8620223140400	Tennelec XLB	10 Mins	222	402	022314/1353	022314/1630	0.78	2.35	On-Site
2/23/2014	2/23/14 1206	2/23/14 2013	8620223141206	Tennelec XLB	10 Mins	257	491	022314/2052	022714/0113	0	0.19	On-Site
2/23/2014	2/23/14 2013	2/24/14 0402	8620223142013	Tennelec XLB	10 Mins	618	1094	022414/0427	022714/0128	1	3	On-Site
2/24/2014	2/24/14 0402	2/24/14 0810	8620224140402	Tennelec XLB	10 Mins	294	531	022414/1011				On-Site

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 0862- Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/24/2014	2/24/14 0810	2/24/14 1615	8620224140810	Tennelec XLB	10 Mins	240	434	022414/1657	022414/ 2008	96	163	On-Site
2/24/2014	2/24/14 1615	2/25/14 0003	8620224141615	Tennelec XLB	10 Mins	794	1393	022514/0027	022514/0409	117	213	On-Site
2/25/2014	2/25/14 0003	2/25/14 0821	8620225140003	Tennelec XLB	10 Mins	534	994	022514/0955				On-Site
2/25/2014	2/25/14 0821	2/25/14 1637	8620225140821	Tennelec XLB	10 Mins	406	724	022514/1749	022514/2207	158	288	On-Site
2/25/2014	2/25/14 1637	2/26/14 0013	8620225141637	Tennelec XLB	10 Mins	577	1030	022514/0032	022614/0406	131	250	On-Site
2/26/2014	2/26/14 0013	2/26/14 0818	8620226140013	Tennelec XLB	10 Mins	119	280	022614/1225				On-Site
2/26/2014	2/26/14 0818	2/26/14 1615	8620226140818	Tennelec XLB	10 Mins	289	488	022614/1656				On-Site
2/26/2014	2/26/14 1615	2/27/14 0003	8620226141615	Tennelec XLB	10 Mins	621	1164	022714/0039	022714/0015	103	184	On-Site
2/27/2014	2/27/14 0015	2/27/14 0819	8620227140015	Tennelec XLB	10 Mins	583	993	022714/0935				

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 1101-Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/22/2014	2/22/14 0009	2/22/14 0409	11010222140009	Tennelec XLB	10 Mins	981	1972	022214/0418	72 Hour	0.25	1.31	On-Site
2/22/2014	2/22/14 0409	2/22/14 0823	11010222140409	Tennelec XLB	10 Mins	119	219	022214/1424	72 Hour	0.65	-0.64	On-Site
2/22/2014	2/22/14 0823	2/22/14 1157	11010222140823	Tennelec XLB	10 Mins	487	861	022214/1224	72 Hour	-0.52	-2.35	On-Site
2/22/2014	2/22/14 1157	2/22/14 2025	11010222141157	Tennelec XLB	10 Mins	51	109	022214/1654	72 hour	0	0.98	On-Site
2/22/2014	2/22/14 1700	2/22/14 2025	11010222141700	Tennelec XLB	10 Mins	363	612	022214/2048				On-Site
2/22/2014	2/22/14 2025	2/23/14 0000	11010222142025	Tennelec XLB	10 Mins	431	731	022314/0020	72 hour	1.02	0.58	On-Site
2/23/2014	2/23/14 0000	2/23/14 0400	11010223140000	3030E	10 Mins	1	2		022314/1600	46	116	On-Site
2/23/2014	2/23/14 0400	2/23/14 1205	11010223140400	3030E	10 Mins	248	450	022314/????	22714/ 0128	61	270	On-Site
2/23/2014	2/23/14 1205	2/23/14 2013	11010223141205	Tennelec XLB	10 Mins	277	495	022314/2056	022714/0113	0.26	2.11	On-Site
2/23/2014	2/23/14 2013	2/24/14 0402	11010223142013	Tennelec XLB	10 Mins	611	1097	022414/0425	022714/0129	1	2	On-Site
2/24/2014	2/24/2014 0402	2/24/14 0814	11010224140402	Tennelec XLB	10 Mins	174	366	022414/1046				On-Site
2/24/2014	2/24/14 0814	2/24/14 1615	11010224140814	Tennelec XLB	10 Mins	177	340	022414/1657	022414/2008	87	148	On-Site
2/24/2014	2/24/14 1615	2/25/14 0003	11010224141615	Tennelec XLB	10 Mins	1015	1797	022514/0024	022514/0401	120	226	On-Site
2/25/2014	2/25/14 0003	2/25/14 0823	11010225140003	Tennelec XLB	10 Mins	456	817	022514/0956	022514/2050	122	241	On-Site
2/25/2014	2/25/14 0823	2/25/14 1620	11010225140823	Tennelec XLB	10 Mins	281	511	022514/1749	2252014/220	156	310	On-Site

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Preliminary Information - Not for Public Release

PAS 1101-Salt Shaft

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	Alpha (dpm)	Beta (dpm)	First Count	Re-count	Alpha (dpm)	Beta (dpm)	Location
						*	*					
2/25/2014	2/25/14 1620	2/26/14 0013	11010225141620	Tennelec XLB	10 Mins	919	1679	022614/0030				On-Site
2/26/2014	2/26/14 0013	2/26/14 0814	11010226140013	Tennelec XLB	10 Mins	273	514	022614/0944				On-Site
2/26/2014	2/26/14 0814	2/26/14 1615	11010226140814	Tennelec XLB	10 Mins	353	623	022614/1614				On-Site
2/26/2014	2/26/14 1615	2/27/14 0003	11010226141615	Tennelec XLB	10 Mins	471	852	022714/0039	022714/0015	92	169	On-Site
2/27/2014	2/27/14 0015	2/27/14 0820	11010227140015	Tennelec XLB	10 Mins	385	683	022714/1016				

* Initial counts have not had sufficient time to allow for radon progeny to decay.

Environmental Air Filter Analytical Status

(current as of 2/27/14 4:00 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)	Radiochemistry: WIPP Labs Data Am-241 Sample Date	WIPP Labs Data Am-241 (pCi)	WIPP Labs Data Am-241 (dpm)	WIPP Labs Data Pu-238 Sample Date	WIPP Labs Data Pu-238 (pCi)	WIPP Labs Data Pu-238 (dpm)	WIPP Labs Data Pu-239/240 Sample Date	WIPP Labs Data Pu-239/240 (pCi)	WIPP Labs Data Pu-239/240 (dpm)
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	22.0	48.8	2/20/2014	-0.001	-0.003	2/20/2014	1.65	3.67
								36				22 +/- 2.37	48.8 +/- 5.27		-0.001 +/- 0.073	-0.003 +/- 0.162		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	Data due 2/28/14 (extended)								
								2.4											
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	Data due 2/28/14 (extended)								
								4.4											
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	Data due 2/28/14 (extended)								
								3.7											
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	Data due 2/28/14 (extended)								
								2.7											
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	Data due 2/28/14 extended								
								4.2											
Carlsbad (CBD)	AL-CBD-20140212-1.1	2/11/2014	2/18/2014	4864	Field Smears and Surveys at accepted levels	Within Radon Background	Complete	---	9290.24	263.07	Data due 2/28/14 extended								
								1.6											
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	Data due 2/28/14 extended								
								1.3											
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	Data due 2/28/14 extended								
								1.5											

* 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

(current as of 2/27/14 4:00 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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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

(current as of 2/27/14 4:00 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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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-20140217-1.2	Soil	2/17/2014	2/18/2014	3/31/2014	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-20140217-1.2	Soil	2/17/2014	2/18/2014	3/31/2014	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	3/31/2014	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-20140217-2.2	Soil	2/17/2014	2/18/2014	3/31/2014	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-20140217-2.2	Soil	2/17/2014	2/18/2014	3/31/2014	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	3/31/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =

Environmental Soil Sample Analytical Status

(current as of 2/27/14 4:00 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
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140217-1.1	Soil	2/17/2014	2/18/2014	3/31/2014	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-20140217-1.1	Soil	2/17/2014	2/18/2014	3/31/2014	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	3/31/2014	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-20140217-1.1	Soil	2/17/2014	2/18/2014	3/31/2014	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-20140217-1.1	Soil	2/17/2014	2/18/2014	3/31/2014	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	3/31/2014	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 Intermediate Sample (2-5 cm)	SI-MLR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/31/2014	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 Deep Sample (5-10 cm)	SD-MLR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/31/2014	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	3/31/2014	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 Intermediate Sample (2-5 cm)	SI-SMR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/31/2014	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 Deep Sample (5-10 cm)	SD-SMR-20140220-1.1	Soil	2/20/2014	2/20/2014	3/31/2014	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	3/31/2014	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 Intermediate Sample (2-5 cm)	SI-SEC-20140220-1.2	Soil	2/20/2014	2/20/2014	3/31/2014	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 Deep Sample (5-10 cm)	SD-SEC-20140220-1.2	Soil	2/20/2014	2/20/2014	3/31/2014	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	3/31/2014	Mean = 1.7	Value =	Mean = -0.1	Value =	Mean = 0.20	Value =
						σ = 2.0	TPU =	σ = 1.1	TPU =	σ = 0.73	TPU =

Environmental Soil Sample Analytical Status

(current as of 2/27/14 4:00 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
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-2.2	Soil	2/20/2014	2/20/2014	3/31/2014	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 Deep Sample (5-10 cm)	SD-SEC-20140220-2.2	Soil	2/20/2014	2/20/2014	3/31/2014	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

(current as of 2/27/14 4:00 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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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	3/31/2014	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

Preliminary Information – Not for Public Release

Station A (A-2-3) Before the HEPA Filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/14/14	2/14/14 0742	2/15/14 0630	A23021414	Tennelec XLB	10 Mins	4.4M	1.2M	021514/0649				WIPP Labs
2/15/14	2/15/14 0630	2/15/14 0840	A23021514	Tennelec XLB	10 Mins	225K	46.8K	021514/0916				WIPP Labs
2/15/14	2/15/14 0840	2/15/14 1510	A23021514 0840	Tennelec XLB	10 Mins	285K	54K	021514/1541				SRS Lab
2/15/14	2/15/14 1510	2/15/14 2330	A23021514 1510	Tennelec XLB	10 Mins	124050	24481	021614/0012				SRS Lab
2/15/14	2/15/14 2330	2/16/14 0850	A23021514 2330	Tennelec XLB	10 Mins	47283	10558	021614/0917				On Site
2/16/14	2/16/14 0850	2/16/14 1648	A23021614 0850	Tennelec XLB	10 Mins	12215	2842	121614/1927				On Site
2/16/14	2/16/14 1648	2/17/14 0015	A23021614 1650	Tennelec XLB	10 Mins	4051	1256	021714/0046				On Site
2/17/14	2/17/14 0015	2/17/14 0820	A23021714 0015	Tennelec XLB	10 Mins	1802	638	021714/0942	1723	573	021714/1012	On Site
2/17/14	2/17/14 0820	2/17/14 1620	A23021714 0820	Tennelec XLB	10 Mins	1048	621	021714/1705				On Site
2/17/14	2/17/14 1620	2/18/14 0010	A23021714 1620	Tennelec XLB	10 Mins	802	633	021814/0051	633 592	230 210	021814/1012 021814/0751	On Site
2/18/14	2/18/14 0010	2/18/14 0820	A23021814 0010	Tennelec XLB	10 Mins	326	338	021814/0928	237 212	157 116	021814/1202 021814/1824	On Site
2/18/14	2/18/14 0820	2/18/14 1605	A23021814 0820	Tennelec XLB	10 Mins	609	780	021814/1624	258	118	021914/0315	On Site
2/18/14	2/18/14 1605	2/19/14 0035	A23021814 1605	Tennelec XLB	10 Mins	346	340	021914/0143	227	143	021914/0547	On Site

Preliminary Information – Not for Public Release

Station A (A-2-3) Before the HEPA Filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/19/14	2/19/14 0035	2/19/14 0823	A23021914 0040	Tennelec XLB	10 Mins	224	320	021914/0952	136	143	021914/1222	On Site
2/19/14	2/19/14 0823	2/19/14 1600	A23021914 0823	Tennelec XLB	10 Mins	264	443	021914/1708	130	137	021914/2046	On-Site
2/19/14	2/19/14 1600	2/20/14 0018	A23021914 1600	Tennelec XLB	10 Mins	286	378	022014/0124	150	119	02214/0352	On-Site
2/19/14	2/19/14 0018	2/20/14 0817	A23022014 0018	Tennelec XLB	10 Mins	290	219	022014/1010	216	146	022014/1256	On-Site
2/20/14	2/20/14 0817	2/20/14 1624	A23022014 0817	Tennelec XLB	10 Mins	135	131	0222014/183	107	85	022014/2204	On-Site
2/20/14	2/20/14 1624	2/21/14 0012	A23022014 1624	Tennelec XLB	10 Mins	231	103	022114/0154	203	84	022114/0505	On-Site
2/21/14	2/21/14 0012	2/21/14 0845	A23022114 0012	Tennelec XLB	10 Mins	330	146	022114/1027	286	105	022114/1532	On-Site
2/21/14	2/21/2014 0845	2/21/2014 1620	A230221140845	Tennelec XLB	10 Mins	253	199	022114/1654	175	86	022114/2000	On-Site
2/21/14	2/21/2014 1620	2/22/2014 0050	A230221141620	Tennelec XLB	10 Mins	388	549	022114/0124	215	154	022114/0400	On-Site
2/22/14	2/22/2014 0050	2/22/2014 0830	A230222140050	Tennelec XLB	10 Mins	421	599	022214/0906	180	154	022214/1150	On-Site
2/22/14	2/22/2014 0830	2/22/2014 1650	A230222140830	Tennelec XLB	10 Mins	243	337	022214/1713	140	166	022214/2004	On-Site
2/22/14	2/22/2014 1650	2/23/2014 0011	A230222141650	Tennelec XLB	10 Mins	487	626	022314/0047	208	129	022314/0401	On-Site
2/23/14	2/23/2014 0011	2/23/2014 0830	A230223140011	Tennelec XLB	10 Mins	328	504	022314/0906	162	167	022314/1222	On-Site
2/23/14	2/23/2014 0830	2/23/2014 1615	A230223140830	Tennelec XLB	10 Mins	225	340					On-Site

Preliminary Information – Not for Public Release

Station A (A-2-3) Before the HEPA Filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/23/14	2/23/2014 1615	2/24/2014 0025	A230223141615	Tennelec XLB	10 Mins	412	696	022414/0048	102	109	022414/0405	On-Site
2/24/14	2/24/2014 0025	2/24/2014 0912	A230224140025	Tennelec XLB	10 Mins	195	309	022414/1137	149	213	022414/1540	On-Site
2/24/14	2/24/2014 0912	2/24/14 1702	A230224140912	Tennelec XLB	10 Mins	437	740	022414/1733	141	214	022414/2031	On-Site
2/24/14	2/24/14 1702	2/25/14 0005	A230224141702	Tennelec XLB	10 Mins	429	796	022514/0029	91	138	022514/0355	On-Site
2/25/14	2/25/14 0005	2/25/14 0830	A230225140005	Tennelec XLB	10 Mins	381	618	022514/0951	138	194	022514/1349	On-Site
2/25/14	2/25/14 0830	2/25/14 1628	A120225140830	Tennelec XLB	10 Mins	544	962	022514/ 1730	165	277	022514/ 2000	On-Site
2/25/14	2/25/14 1628	2/26/14 0025	A230225141628	Tennelec XLB	10 Mins	647	1140	022614/0100	161	263	022614/0407	On-Site
2/26/14	2/26/14 0025	2/26/14 0845	A230226140025	Tennelec XLB	10 Mins	307	487	022614/ 0958	158	225	022614/1354	On-Site
2/26/14	2/26/14 0845	2/26/14 1640	A230226140845	Tennelec XLB	10 Mins	377	579	022614/ 1729				On-Site
2/26/14	2/26/14 1640	2/27/14 0015	A230226141640	Tennelec XLB	10 Mins	458	826	022714/ 0052	74	112	022714/ 0015	On-Site
2/27/14	2/27/14 0015	2/27/14 0903	A230227140015	Tennelec XLB	10 Mins	685	1198	022714/ 0932	191	340	022714/ 1225	On-Site

Preliminary Information – Not for Public Release

Station A (A-2-3) Before the HEPA Filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location

Station B (B-1-3) Downstream of the HEPA filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/14/14	2/14/14 0754	2/15/14 0835	B13021414	Tennelec XLB	10 Mins	28205	5877	021514/0850				WIPP Labs
2/15/14	2/15/14 0835	2/15/14 1445	B13021514	Tennelec XLB	10 Mins	36194	7340					SRS Labs
2/15/14	2/15/14 1445	2/15/14 2305	B130215141445	Tennelec XLB	10 Mins	671	142	021714/1056				On-Site
2/15/14	2/15/14 2305	2/16/14 0904	B130215142305	Tennelec XLB	10 Mins	300	152	021614/0932	253 245 240	63 59 49	021614/1127 021614/1250 021614/1741	On-Site
2/16/14	2/16/14 0904	2/16/14 1705	B130216140904	Tennelec XLB	10 Mins	144	67	021614/1755				On-Site
2/16/14	2/16/14 1705	2/17/2014 0030	B130216141705	Tennelec XLB	10 Mins	72	54	021714/0046	62	18	021714/1203	On-Site
2/17/14	2/17/14 0030	2/17/14 0805	B130216140030	Tennelec XLB	10 Mins	43	26	021714/0930	30 32	23 16	021714/0955 021714/1400	On-Site
2/17/14	2/17/14 0805	2/17/14 1600	B130217140805	Tennelec XLB	10 Mins	78	35	021714/1650	58 24	20 13	021714/1958 021814/1823	On-Site
2/17/14	2/17/14 1600	2/18/14 0030	B130217141600	Tennelec XLB	10 Mins	65	55	021814/0051	45 36	18 12	021814/0423 021814/0751	On-Site
2/18/14	2/18/14 0030	2/18/14 0901	B130218140030	Tennelec XLB	10 Mins	42	61	021814/0928	23	12	021814/1202	On-Site
2/18/14	2/18/14 0901	2/18/14 1655	B130218140901	Tennelec XLB	10 Mins	41	29	021814/1754	28	7	021914/0315	On-Site
2/18/14	2/18/14 1655	2/19/14 0105	B130218141655	Tennelec XLB	10 Mins	42	36	021914/0144	20	7	021914/0547	On-Site
2/19/14	2/19/14 0105	2/19/14 0900	B130219140105	Tennelec XLB	10 Mins	33	44	021914/0952	20	15	021914/1222	On-Site

Preliminary Information-Not for Public Release

Station B (B-1-3) Downstream of the HEPA filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/19/14	2/19/14 0900	2/19/14 1627	B130219140900	Tennelec XLB	10 Mins	36	34	021914/1708	25	10	021914/2036	On-Site
2/19/14	2/19/14 1627	2/20/14 0035	B130219141627	Tennelec XLB	10 Mins	45	46	022014/0107	25	9	022014/0359	On-Site
2/20/14	2/20/14 0035	2/20/14 0852	B130220140035	Tennelec XLB	10 Mins	52	21	022014/1035	38	14	022014/1226	On-Site
2/20/14	2/20/14 0852	2/20/14 1654	B130220140852	Tennelec XLB	10 Mins	98	22	022014/1838	101	23	022014/2211	On-Site
2/20/14	2/20/14 1654	2/21/14 0038	B130220141654	Tennelec XLB	10 Mins	40	19	022114/0204	33	11	022114/0521	On-Site
2/21/14	2/21/14 0038	2/21/14 0820	B130221140038	Tennelec XLB	10 Mins	30	6	022114/1027	27	12	022114/1532	On-Site
2/21/14	2/21/14 0820	2/21/14 1600	B130221140820	Tennelec XLB	10 Mins	37	15	022114/1654	41	12	022114/2028	On-Site
2/21/14	2/21/14 1600	2/22/14 0019	B130221141600	Tennelec XLB	10 Mins	50	28	022214/0125	42	14	022214/0358	On-Site
2/22/14	2/22/14 0019	2/22/14 0810	B130222140019	Tennelec XLB	10 Mins	30	22	022214/0946	19	12	022214/1151	On-Site
2/22/14	2/22/14 0810	2/22/14 1615	B130222140810	Tennelec XLB	10 Mins	28	17	022214/1713	22	10	022214/2004	On-Site
2/22/14	2/22/14 1615	2/22/14 2356	B130222141615	Tennelec XLB	10 Mins	32	33	022314/0047	22	9	022314/0404	On-Site
2/22/14	2/22/14 2356	2/23/14 0810	B130222142356	Tennelec XLB	10 Mins	21	29	022314/0938	19	17	022314/1227	On-Site
2/23/14	2/23/14 0810	2/23/14 1605	B130223140810	Tennelec XLB	10 Mins	7	22	022314/1642	17	7	022314/2010	On-Site
2/23/14	2/23/14 1605	2/23/14 0015	B130223141605	Tennelec XLB	10 Mins	40	54	022414/0054	19	13	022414/0401	On-Site
2/24/14	2/24/14 0015	2/24/14 0846	B130224140015	Tennelec XLB	10 Mins	14	19	022414/1136	14	14	022414/1540	On-Site

Preliminary Information-Not for Public Release

Station B (B-1-3) Downstream of the HEPA filters

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count Time	Alpha (dpm)	Beta (dpm)	First Count	Alpha (dpm)	Beta (dpm)	Re-count	Location
2/24/14	2/24/14 0846	2/24/14 1635	B130224140846	Tennelec XLB	10 Mins	22	28	022414/1733	8	8	022414/2031	On-Site
2/24/14	2/24/14 1635	2/25/14 0016	B130224141635	Tennelec XLB	10 Mins	45	72	022514/0029	8	12	022514/0404	On-Site
2/25/14	2/25/14 0016	2/25/14 0902	B130225140016	Tennelec XLB	10 Mins	41	53	022514/ 1012	14	21	022514/1403	On-Site
2/25/14	2/25/14 0902	2/25/14 1652	B130225140902	Tennelec XLB	10 Mins	39	59	022514/ 1742	12	7	022514/ 2000	On-Site
2/25/14	2/25/14 1652	2/26/14 0010	B130225141652	Tennelec XLB	10 Mins	27	41	022614/ 0101	12	10	022614/ 0450	On-Site
2/26/14	2/26/14 0010	2/26/14 0921	B130226140010	Tennelec XLB	10 Mins	26	21	022614/ 1051	23	16	022614/ 1423	On-Site
2/26/14	2/26/14 0921	2/26/2014 1616	B130226140921	Tennelec XLB	10 Mins	22	25	022614/ 1727				On-Site
2/26/14	2/26/14 1616	2/27/14 0030	B130226141616	Tennelec XLB	10 Mins	33	59	022714/0129	9	11	022714/1030	On-Site
2/27/14	2/27/14 0030	2/27/14 0806	B130227140030	Tennelec XLB	10 Mins	22	37	022714/0929	7	22	022714/1153	On-Site

EPA Discussion Items and Requests

27 Feb 2014

EPA Questions, items for discussion for the 27th:

1) Seismic data. (NWPs and New Mexico Tech – other agencies)

2) Seismic data for roof fall – from North Science Experiment

3) Communications/notification to Potash mines (Ascertain if they have air samplers – answers likely no)

4) Consequence Data – full documentation with assumptions and all input parameters. Extent of plume, e.g., to neighboring states. Only provide rev(s) that have been QA'd/peer verified. (So EPA can communicate to neighboring states)

5) DACs values expected by public – what would be the estimated public dose rate. And message(s) to public.

6) Review U/G Air Flow diagrams – by Cog Engineer on 2/28

7) A&B FAS data – normal range pre-fire (prior 2/5) and post-fire (prior to 2/14)

8) Calculated cancer increase rate depending on proximity to WIPP site, e.g., Smith Ranch

9) % of Panel 7 filled with waste (at 23 rows)

10) Urenco data – seek to acquire

11) SRNL filter data – can we release

12) Data sharing location ICLN Portal or CTAC FTP Site – Demonstrate Portal Usage

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CEMRC, DOE and NMED Air Sampling Results/Schedule

Sampling Station	Source	Direction	Filter Exchange Frequency	Sampler flow rate	Filter Sample Start Time*	Filter Sample End Time	Sample Date	Am-241 (dpm)	Pu-238 (dpm)	Pu-239/240 (dpm)	Total (dpm)
On-Site	CEMRC	NW	Weekly, Tuesdays	20	2/11/2014	2/16/2014	N/A	78	0.24	6.9	**85.14**
Near-Field	CEMRC	NW	Weekly, Tuesdays	20	2/11/2014	2/16/2014	N/A	38.7	N/D	2.742	**41.44**
Near-Field	CEMRC	NW	Weekly, Tuesdays	20	2/16/2014	2/18/2014	N/A	0.42	N/D	N/D	**0.42**
Catus Flats	CEMRC	SE	Weekly, Tuesdays	20	2/11/2014	2/16/2014	N/A	N/D	N/D	N/D	**0.00**
Catus Flats	CEMRC	SE	Weekly, Tuesdays	20	2/16/2014	2/18/2014	N/A	N/D	N/D	N/D	**0.00**
WIPP East (WEE)	DOE	E	Weekly, Tuesdays	2	2/14/2014	2/17/2014	N/A	N/A	N/A	N/A	**4.4**
WIPP South (WSS)	DOE	S	Weekly, Tuesdays	2	2/14/2014	2/17/2014	N/A	N/A	N/A	N/A	**3.7**
WIPP Farfield (WFF)	DOE	NW	Weekly, Tuesdays	2	2/14/2014	2/15/2014	2/20/2014	48.80	-0.003	3.67	**52.47**
WIPP Farfield (WFF)	DOE	NW	Weekly, Tuesdays	2	2/15/2014	2/18/2014	N/A	N/A	N/A	N/A	**2.4**
Mills Ranch (MLR)	DOE	SW	Weekly, Tuesdays	2	2/14/2014	2/18/2014	N/A	N/A	N/A	N/A	**2.7**
Smith Ranch (SMR)	DOE	NW	Weekly, Tuesdays	2	2/14/2014	2/18/2014	N/A	N/A	N/A	N/A	**4.2**
South East Control (SEC)	DOE	SE	Weekly, Tuesdays	2	2/14/2014	2/18/2014	N/A	N/A	N/A	N/A	**1.3**
South East Control (SEC) co-located sample	DOE	SE	Weekly, Tuesdays	2	2/14/2014	2/18/2014	N/A	N/A	N/A	N/A	**1.5**
Carlsbad (CBD)	DOE	NW	Weekly, Tuesdays	2	2/14/2014	2/18/2014	N/A	N/A	N/A	N/A	**1.6**
Met Tower (MET)*	DOE	NE	Weekly, Tuesdays	2	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Salt Shaft (SLT)*	DOE	NW	Weekly, Tuesdays	2	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Station B - Environmental (STB)(*0) (**)	DOE	NW	Weekly, Tuesdays	2	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 1	NMED	NW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 2	NMED	NW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 3	NMED	NE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 4 -currently inactive	NMED	SW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 5 - currently inactive	NMED	NW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 6 - currently inactive	NMED	NW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 7Q - co-located sampler, inactivated	NMED	NE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 8 - currently inactive	NMED	NW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
LVAS 9 - currently inactive	NMED	SE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

* 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.

**This is not the rad con station filter.

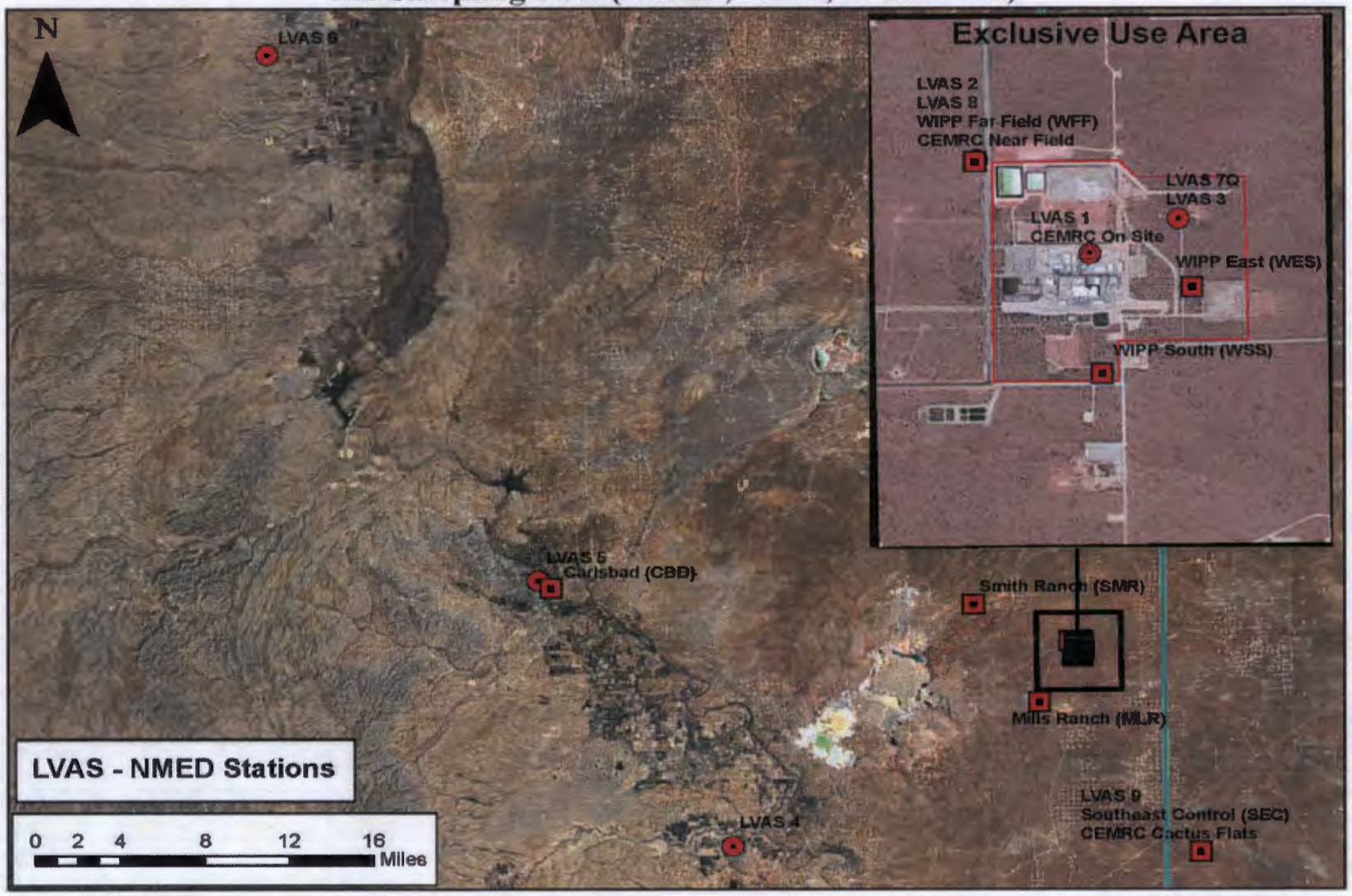
*** New location to be activated

N/A - Not Available

N/D - No Detection

TBC - To Be Calculated

Air Sampling Sites (NMED, WIPP, & CEMRC)



Revision 1

The purpose of this revision is to incorporate comments obtained on the initial calculation and to include additional measurement and modeling information which has become available in the interim. The most significant updates were the revised timeline from Table 1[1] and the incorporation of new measurement data on air sample filters.

Air Monitoring of TRU Data

The source terms used for the values reported in Table 1 below are provided in the attachments and represent a simple conversion of gross alpha activity on the Station B filters into total source term released into the atmosphere up to the time the sample was pulled. The pull time in the sample is also presented in Table 1. These source terms are assumed to have been uniformly distributed throughout the time the sample was being taken so that the integrated activity per time is assumed to have a constant release rate over each interval. The true release rate as a function of time is not known to any greater resolution than that provided in Table 1 and so it should be recognized this is simply the best measurement based estimates available on the temporal distribution of activity released. The data in Table 1 does not include radon because the air comes through the mine first which does not have a radium source term allowing intake radon to decay and plate out in the mine as it is pulled through to the sampling locations. Generally, radon will only contribute around 10 dpm alpha or less at Station B and so the contribution to a source term having 3 orders of magnitude higher levels of activity is considered negligible. Measured values were in dpm and converted to Ci for the NARAC models.

Table 1. Source terms used for NARAC models based on gross alpha beta values not having radon

Date and time	Station B activity (dpm)	Release duration (hrs:min)	Calculated released activity (Ci)
2/14/14 23:54	0	0	0
2/15/14 8:35	2.8E+04	8:41	3.8E-04
2/15/14 14:45	3.6E+04	6:10	4.9E-04
2/15/14 23:05	6.7E+02	8:20	9.1E-06
2/16/14 9:04	3.0E+02	9:59	4.1E-06
2/16/14 17:05	1.4E+02	8:01	1.9E-06
2/17/14 0:30	7.2E+01	7:25	9.7E-07
2/17/14 8:05	4.3E+01	7:35	5.8E-07
2/17/14 16:00	7.8E+01	7:55	1.1E-06

[1] It appears that sample pull times for Station A and Station B were juxtaposed on the initial war room data board.

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4. Calculations cont.

To convert a Station B source term into a release value, the unit conversion of 2.22e12 dpm per Ci is used along with a ratio of the flow rates. The Station B flow rate is 2 cfm and the Station B exhaust is kept around 60e3 cfm. These factors combine to give a total conversion coefficient of 1.4E-8 Ci/dpm as given in Equation 1 for the Curie release from Station B based on an assay of the filter activity in dpm.

$$60 \times 10^3\ cfm/\left(2\ cfm\ \times 2.22 \times 10^{12}\ \frac{dpm}{Ci}\right) = 1.4 \times 10^{-8} \frac{Ci}{dpm} \qquad \text{Eqn. 1}$$

Using the source terms from Table 1, the resultant plume projections for dose offsite are provided as attachments with representative figures also provided in this calculation. The plumes used in this calculation are not the same as those generated during the initial response to the event as they use different time intervals to reflect current best estimates of the time release as shown in Figure 1. This release profile simply assumes a uniform release rate between each measurement value provided from Station B gross assay results.

What can be seen from Figure 1 is not only that a second event appears to have occurred between 8:35 AM and 2:45 PM but the values steadily decrease after this and also seem to become a constant rate under 100 nCi per hour.

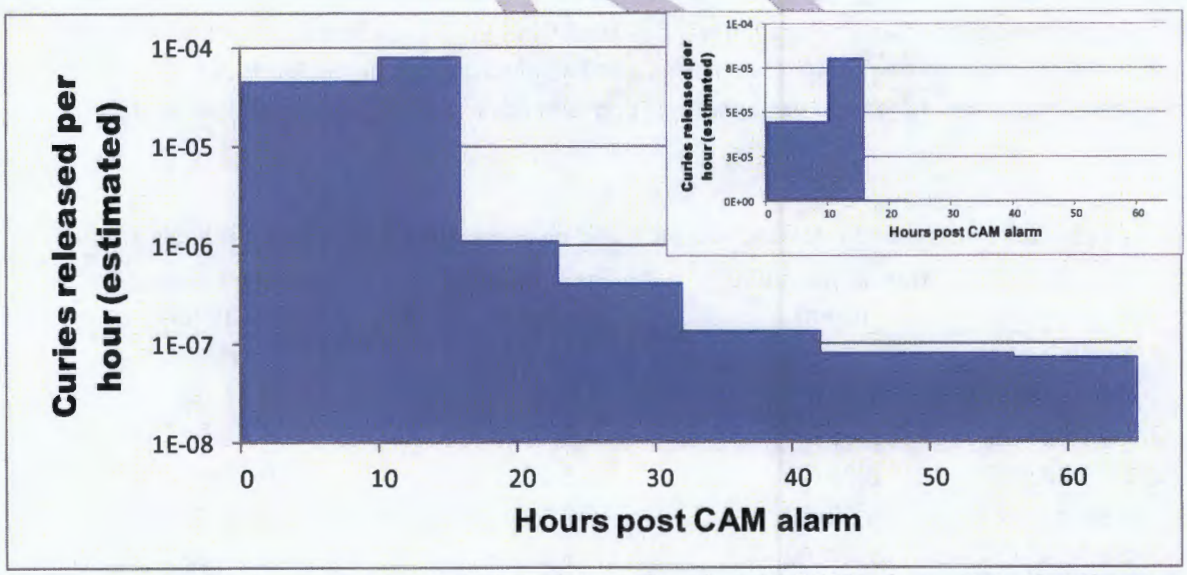


Figure 1. Station B release rates as a function of time after the initial CAM alarm. Note that the axes are presented in a semilog plot so that the vertical axis is not linear but logarithmic. The inset on the upper right is exactly the same plot reproduced on a linear scale for comparison. The linear scale basically shows the first 2 time intervals listed as being the dominant release components of the event.

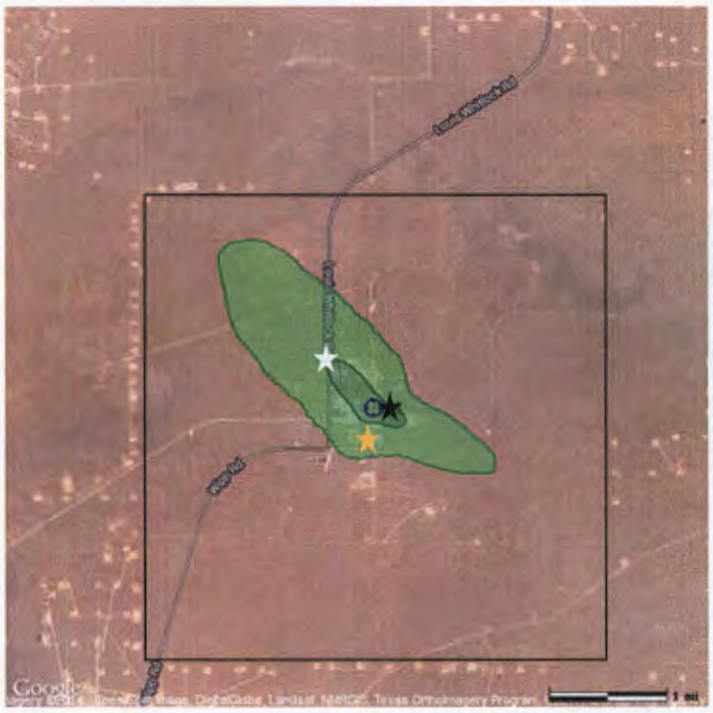
4. Calculations cont.

By utilizing an informal CM home team from Sandia and the actual NARAC staff out of LLNL, an integral plume using site meteorological data was generated on 2/20/14. This option was not available in the initial stages as the NARAC models using the web application only allow protracted releases to be generated using interpolated data from nearby airport meteorological data such as that used by the National Weather Service. The result of this integrated plume using the WIPP meteorological data is shown in Figure 2. This plume gives a first estimate of the dose consequence to workers and potential members of the public which show the values to be quite low.

Official Use Only

Early Phase TED (0-96 hrs)
(Total Effective Dose Including Plume Passage)

Set 2: TED and Deposition
NARAC Report - Actual Release



Map Size: 9.7 km by 9.7 km Id: Production.rcE22847.rcC1

NARAC Operations: (NARAC Staff); narac@llnl.gov; 925-424-6465
Requested by: (NIT Ops/ WIPP; DOE; 202-586-8100; nitops@nnsa.doe.gov)
Approved by: (NARAC Operations; NARAC; 925-422-9100)

Contour Levels

	Description	(rem) Extent Area	Population
	Below the EPA Protective Action Guide of 1 rem for sheltering or evacuation. Values are greater than 0.001 rem, but less than 1 rem.	>0.0010 0.9km 0.4km2	0
	Below the EPA Protective Action Guide of 1 rem for sheltering or evacuation. Values are in a range of 0.001-0.0001 rem.	>0.0001 3.0km 5.2km2	0

Note: Areas and counts in the table are cumulative.
Population Source = LandScan USA V1.0.

Effects or contamination from February 15, 2014 15:45 CST to
February 19, 2014 15:45 CST
Release Location: 32.372340 N, 103.791610 W
Material: PU-239
Generated On: February 22, 2014 04:59 CST
Model: ADAPT/LODI
Comments:
WIPP calculated release amount from stack monitoring. Release starting at 02/15/2014 06:15:00 UTC for 3 days
WIPP on site meteorological data at 15 min intervals from 02/14/2014 17:00:00 UTC to 02/19/2014 06:45:00 UTC

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Figure 2. Station B estimate for the isodose contours assuming a uniform release duration over each time period given in Table 1 as shown in Figure 1. Far Field Station is labeled with a white star, South Station is labeled with an orange star and East Station is labeled with a black star.

4. Calculations cont.

Highlighted by black outline is the approximate area of the 16 sections comprising the Land Withdrawal Area for WIPP. Closer in but still outside of the barbed wire fence area of the property protection area are the Far Field, South and East sampling stations represented by white, orange and black stars respectively.

Figure 3 shows the same plume closer up. Here the specific location of the air samplers relative to the resultant plume can be seen. The Far Field sample (white star) is outside the 1 mrem contour as is South Station (orange star) but East Station is within the 1 mrem contour boundary.

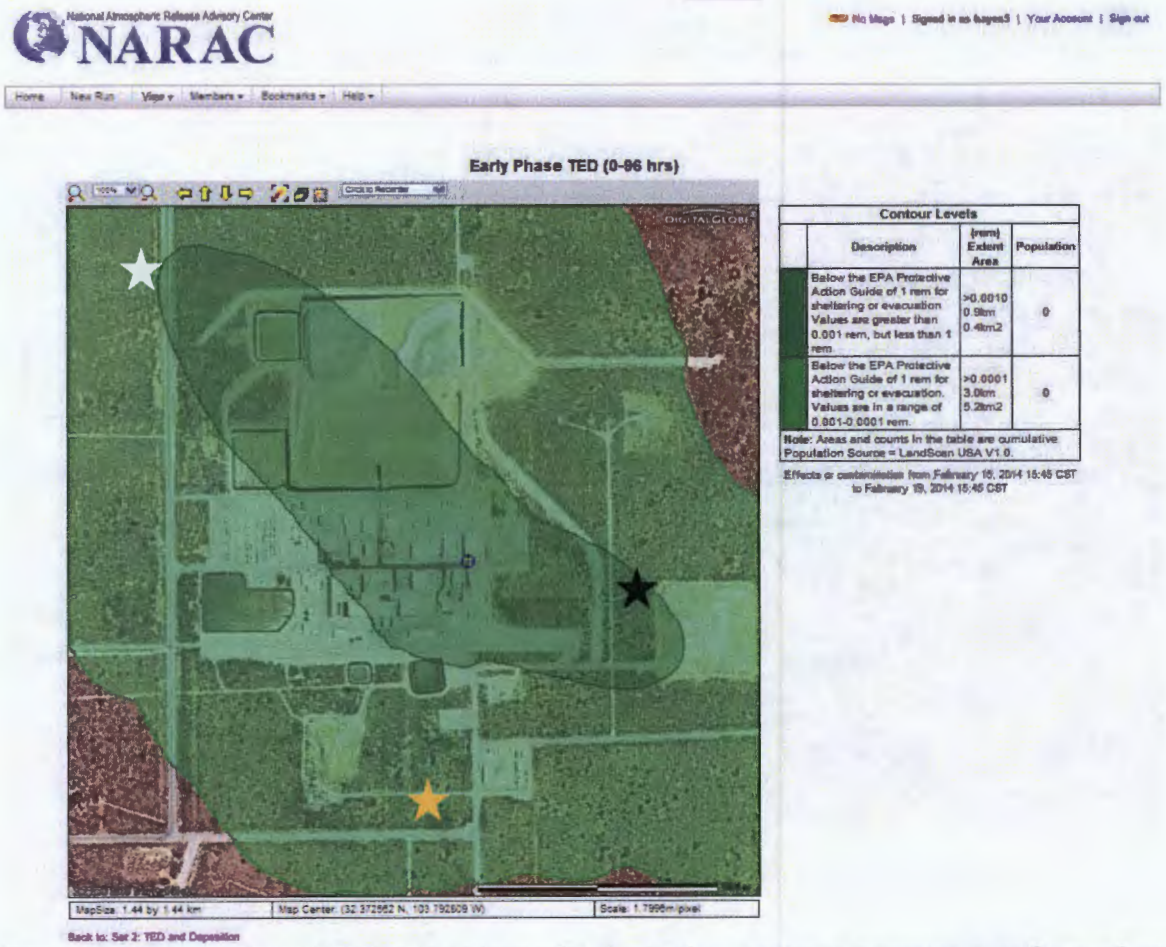

Figure 3. Close up view of Station B estimate for the isodose contours assuming a uniform release duration over each time period given in Table 1 as shown in Figure 1. Far Field Station is labeled with a white star, South Station is labeled with an orange star and East Station is labeled with a black star.

4. Calculations cont.

What has been found to date is the Far Field station read 36 dpm TRU activity using alpha spectrometry after a 72 hour decay and 43 dpm Am241 activity using gamma spectrometry (assumed uncertainties are in the range of 20%). The air sampler was running 2 cfm, and although it had a total volume sampled of 103 ft^3 when removed, it was only sampling for approximately 15 hours after the CAM alarmed in the underground. Using Figure 1, it can be inferred that the majority of the plume was being generated for approximately 15 hrs. Using Figure 4, it can be seen that the wind was only blowing from the ESE (from approximately 135 degrees clockwise from the north) for 8.5 hours.

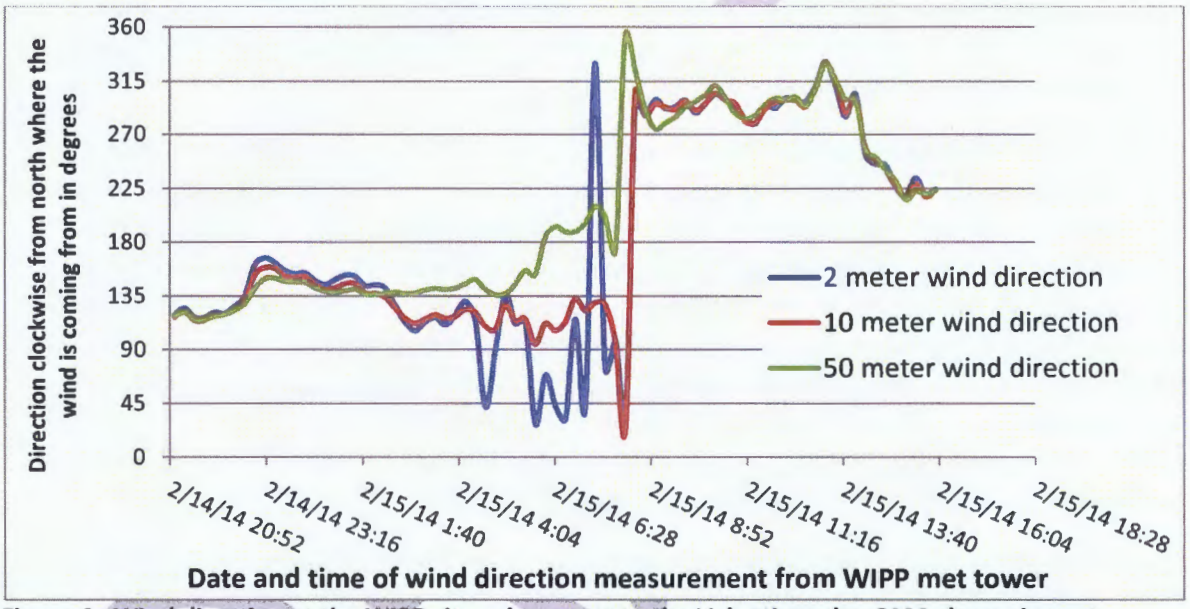

Figure 4. Wind direction at the WIPP site subsequent to the Valentines day CAM alarm given at heights of 2 m, 10 m and 50 m. The CAM alarm took place starting on 2/14/14 at 23:15 and according to Figure 1 continued up to around 2/15/14 14:45. A large shift in wind direction can be seen to occur around 8:30 AM on 2/15/14.

Using these values, an air concentration can be estimated with Equation 2 which would generate 0.03 Bq/m^3 as the measurement value from the air sample.

$$40\ dpm \times \frac{1\ Bq}{60\ dpm} \Big/ \left(2\frac{ft^3}{min} \times 8.5\ hrs \times \frac{60\ min}{hr} \times \frac{1\ m^3}{35.31\ ft^3}\right) \approx 0.02\frac{Bq}{m^3} \qquad \text{Eqn. 2}$$

Using further that according to 10 CFR 835 Appendix A, for Pu239 the most conservative value for a single DAC is 0.2 Bq/m^3. This value is based on 1 ALI being a 5 rem TED assuming a 2000 hr exposure such that 1 DAC = 2.5 mrem/hr. From these, a dose estimate of 2 mrem for a person standing next to the air sampler can then also be estimated using Equation 3.

4. Calculations cont.

$$2\ mrem \approx\ 0.02\frac{Bq}{m^3} \times \frac{2.5\ mrem/hr}{1\ DAC} \times \frac{1\ DAC}{0.2\frac{Bq}{m^3}} \times 8.5\ hrs \qquad \text{Eqn. 3}$$

This number assumes of course that the person is standing next to the air sampler for the duration of the release (the full 8.5 hrs).

Current activity measurement results of South and East Stations provided by alpha spectrometry assay post 72 hr decay are 4 and 5 dpm respectively. Using the same approach with Equations 2 and 3, this places the worst case dose estimate around 0.3 mrem at each location. According to Figure 3, this is consistent with the South Station sampler (orange star) which is located between the 0.1 and the 1 mrem contour but shows the East Station location being lower than estimated by the plume model. The plume model in Figure 3 shows East Station being very near the 1 mrem contour line but the sample result is closer to the 0.1 mrem level by measurement.

It is important to understand the context of plume models and air sample correlation. 10 CFR 835[i] requires that dose from inhalation be determined using bioassay rather than air monitoring data due to the extremely large variations inherent to these kinds of measurements. Using laboratory conditions, the correlation between a lapel sampler and a general room area fixed air sampler will indeed give a linear correlation but the typical variation between the two is a full order of magnitude[ii]. This is partially attributed to the large variation in particle activity[iii] as a fixed specific activity will increase as the cube of the particle radius with different particle sizes. Being able to estimate dose based on air concentration measurements from a plume model is considered to be exceptionally well done if they are within a factor of 2 to 5 with a factor of 10 accuracy generally a reasonable value without iteratively perturbing and rerunning the plume models to interpolate measurement results.

Figure 5 shows general locations of more distance offsite sample filters including Mills Ranch, Smith Ranch, Southeast Control and Carlsbad samples with red squares. Also shown as an inset in the lower right are the Far Field, South and East sampling stations located just outside the Property Protection area. The resulting iSolo assay and dose estimate consequences from each of these samples is provided in Table 2 below.

Table 2. Dose estimates using 8 hour exposure times

	Far Field	South	East	Southeast Control	Mills Ranch	Smith Ranch	Carlsbad
iSolo Assay (dpm)	40	3.7	4.4	1.3	2.7	4.2	1.6
dose estimate (mrem)	2	0.2	0.3	0.1	0.2	0.3	0.1

A useful comparison is the internal dose a person receives from having natural potassium in their blood. Potassium is naturally radioactive and essential to life (a person would die if they had no potassium) and this emits a high energy gamma and high energy beta radiation. This dose range goes from a minimum

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of 10 mrem/yr for a small person and as high as 40 mrem/yr for a large muscular male[iv]. Similarly, just breathing unfiltered mountain fresh air will give a person over 200 mrem per year (around 0.6 mrem per day) due to natural radon in the air. The legal limit for exposure to a standard adult member of the population is 100 mrem/yr.

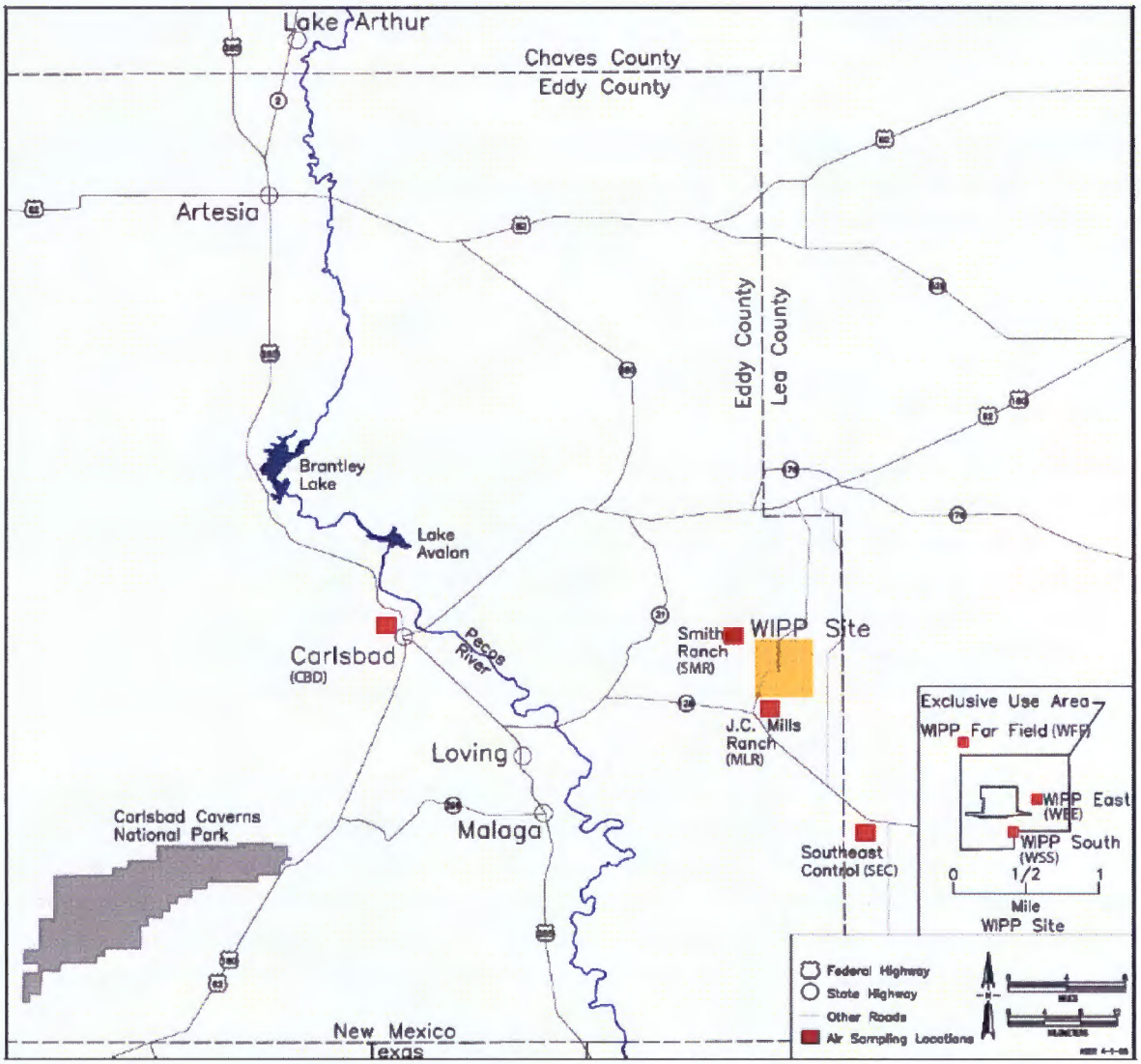

Figure 4.1 – Air Sampling Locations On and Near the WIPP Site

Figure 5. WIPP offsite air sampling locations as marked by red squares. The inset in the lower right shows roughly the same area shown in Figure 2. The upper scale in the lower right corner of the figure is in units of 4 miles. The bottom scale in the lower right is in units of 4 km. This figure was taken from the 2011 ASER (DOE/WIPP-12-3489).

Table 3. A relative comparison of dose consequences from the WIPP release assuming an annual average dose to a US citizen of 620 mrem.

	Far Field	South Station	East Station	Southeast Control	Mills Ranch	Smith Ranch	Carlsbad
Dose estimate (mrem)	2	0.2	0.3	0.1	0.2	0.3	0.1
Fraction of annual average exposure in the US	0.004	0.0004	0.0004	0.0001	0.0003	0.0004	0.0002
Percent of annual average exposure in the US	0.4%	0.04%	0.04%	0.01%	0.03%	0.04%	0.02%

Another parameter of potential interest is the 100 mrem/yr boundary estimated by the plume model generated by the NARAC staff at LLNL. This information is presented in Figure 5 which shows the contour to be completely within the fence line and limited very close to Station B itself.

Surface Contamination

The estimates of surface contamination coming from Station B are presented in Figures 4 and 5 using the same interval releases shown in Figures 2 and 3 respectively. These values are shown with surface contamination units of dpm/100 cm^2. Radioactive contamination is defined as being a removable value of greater than 20 dpm/100 cm^2 or a total (fixed plus removable) of greater than 500 dpm/100 cm^2. The values predicted from the plume show contamination levels on site generally greater than 1 dpm/100 cm^2 with levels near the property protection area being between 0.1 and 1 dpm/100 cm^2. Currently the entire site has been extensively surveyed for contamination and none found which is consistent with the plume modeling.

Currently, plume estimates appear consistent with site survey measurements to date which have aggressively searched for contamination both onsite and offsite near the air sampling locations marked in Figures 2 and 3 by the stars. There was contamination found inside of the Station A building which is where the source term air sampling filter to the HEPA banks is located where an air sample of assayed by WIPP labs to have 8 million dpm was pulled on 2/15/14. Note that this filter is just the source term to the HEPA banks and Table 3 shows the most current air sample results from radioactivity released through Station B as measured at the WIPP using gross alpha beta counters.

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4. Calculations cont.

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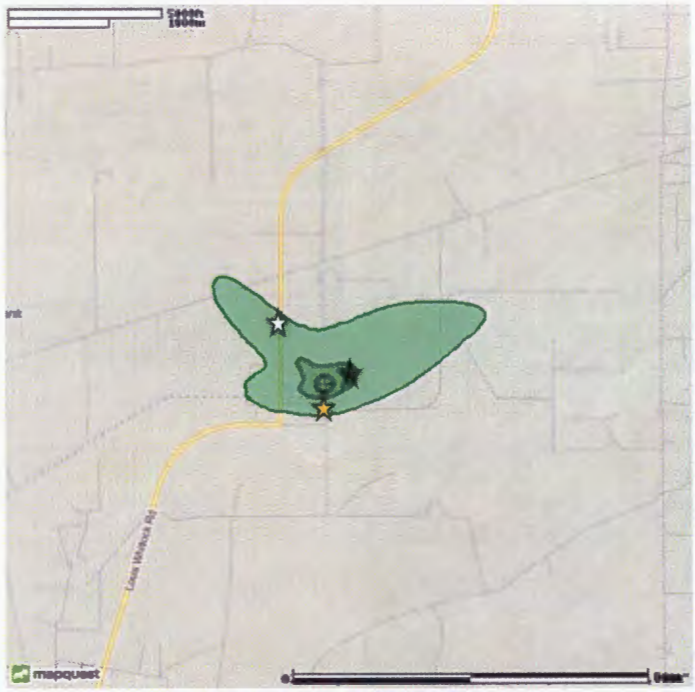
Deposition at 96 hrs
(Surface Contamination from Deposited Radionuclides)

Set 1 Deposition for WIPP
Automated Report - Assessment



Map Size: 9.7 km by 9.7 km Id: Production.rcE22847.rcC1

NARAC Operations: (NARAC Staff); narac@llnl.gov; 925-424-6465
Requested by: {onDuty Assessor; NARAC; 925-424-6465; narac@llnl.gov }
Not approved for further distribution

Contour Levels			
	Description	(dpm/100cm2) Extent Area	Population
	Below health effect guidelines. Possibly contaminated area. Use to confirm with monitoring surveys.	>1 0.5km 0.3km2	0
	Below health effect guidelines. Possibly contaminated area. Use to confirm with monitoring surveys.	>0.10 2.5km 3.9km2	0

Note: Areas and counts in the table are cumulative.
Population Source = LandScan USA V1.0.

Effects or contamination at February 19, 2014 15:45 CST
Release Location: 32.372340 N, 103.791610 W
Material: PU-239
Generated On: February 21, 2014 08:47 CST
Model: ADAPT/LODI
Comments:
Hypothetical release starting at 02/15/2014 06:15:00 UTC for 3 day
gridded met at
02/14/2014 06:00:00 UTC;02/14/2014 07:00:00 UTC;02/14/2014 08:00:00 UTC;
02/14/2014 09:00:00 UTC;02/14/2014 10:00:00 UTC;02/14/2014 11:00:00 UTC;
02/14/2014 12:00:00 UTC;02/14/2014 13:00:00 UTC;02/14/2014 14:00:00 UTC;
(additional times truncated)

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Figure 4. Station B surface contamination estimate for 1st time interval as sampled assuming a uniform release duration. The inner contour level is at the 1 dpm/100 cm^2 level of surface activity.

The formal survey map of onsite measurements is not available at this writing as it has yet to go through the quality assessments and reviews but outside of the Station A surveys, no contamination has been found onsite or offsite even though it has been aggressively sought. Fiddler measurements having a detection capability of approximately 1 uCi/m^2 have also been employed also showing no detectable TRU activity. The conversion to more familiar units of dpm/100 cm^2 is given by Equation 4 which shows the detection limits are orders of magnitude above expected contamination levels and so not detecting contamination was fully expected.

$$1\frac{dpm}{100\,cm^2} = 1\frac{dpm}{100\,cm^2} \times \frac{1\,Bq}{60\,dpm} \times \frac{uCi}{37{,}000\,Bq} \times \left(\frac{100\,cm}{m}\right)^2 = 4.5 \times 10^{-5}\frac{uCi}{m^2} \qquad \text{Eqn. 4}$$

4. Calculations cont.

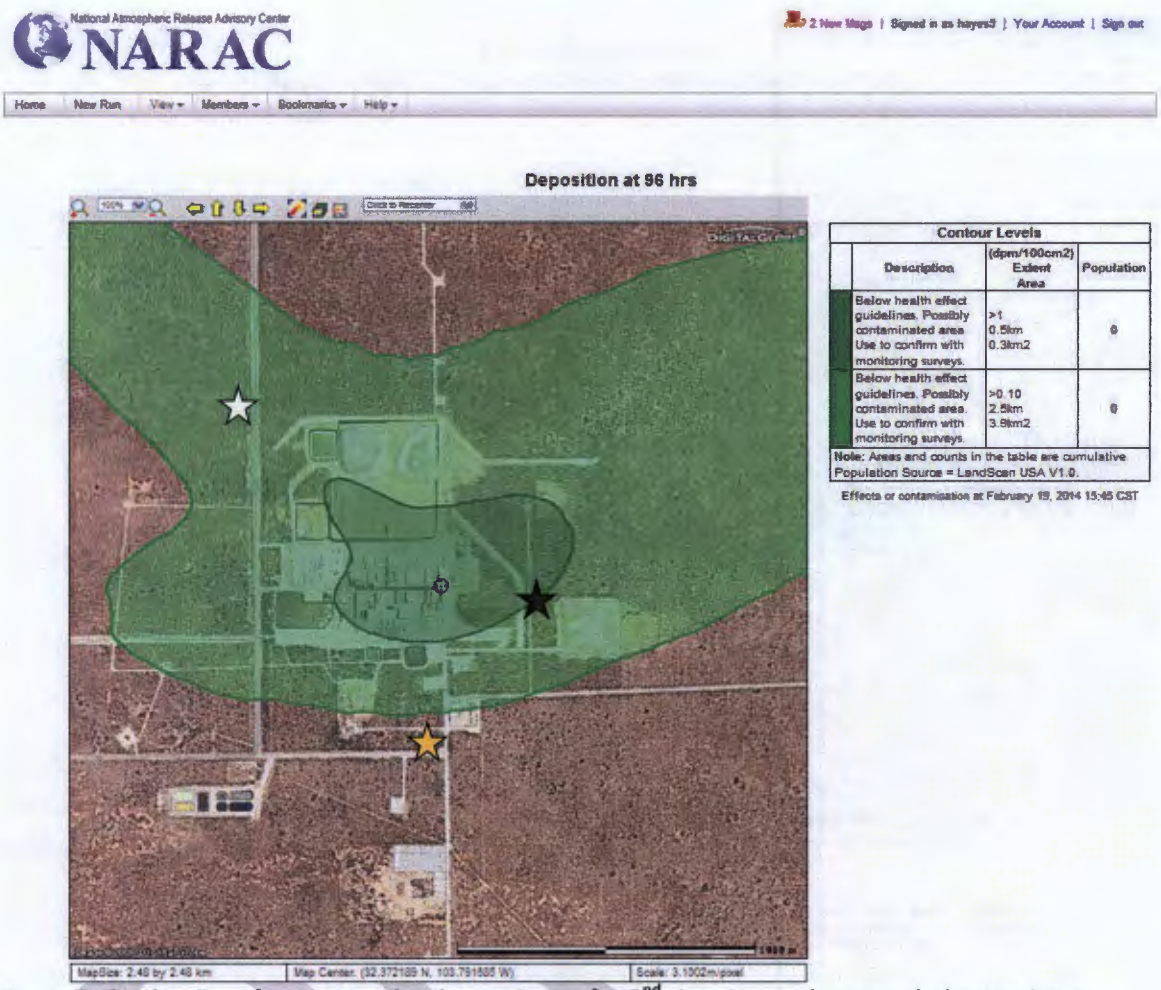

Figure 5. Station B surface contamination estimate for 2nd time interval as sampled assuming a uniform release duration. The inner contour level is at the 1 dpm/100 cm^2 level of surface activity.

As this release will increase the TRU activity both on-site and offsite over and above that already occurring due to the ubiquitous anthropogenic background (from historic atmospheric weapons testing resulting in global fallout), a comparison to these levels is of significance. The Centers for Disease Control (CDC, which is a branch of the National Institutes of Health) conducted a study to determine what the cumulative fallout deposition is across the United States resulting from the global fallout term. These values are graphically displayed in Figure 6.

From Equation 4 it can be seen that 1E-4 uCi/m^2 is comparable to 1 dpm/100 cm^2 (a useful reference value to consider when comparing to the plume plot). This is significant because the highest contour levels shown are 1E-4 uCi/m^2. A useful comparison for onsite measurement is that anything under 20 dpm / 100 cm^2 is by definition, not contaminated for surface deposition considerations. This means that

projected surface deposition levels of TRU activity are expected to be an order of magnitude lower than contamination levels.

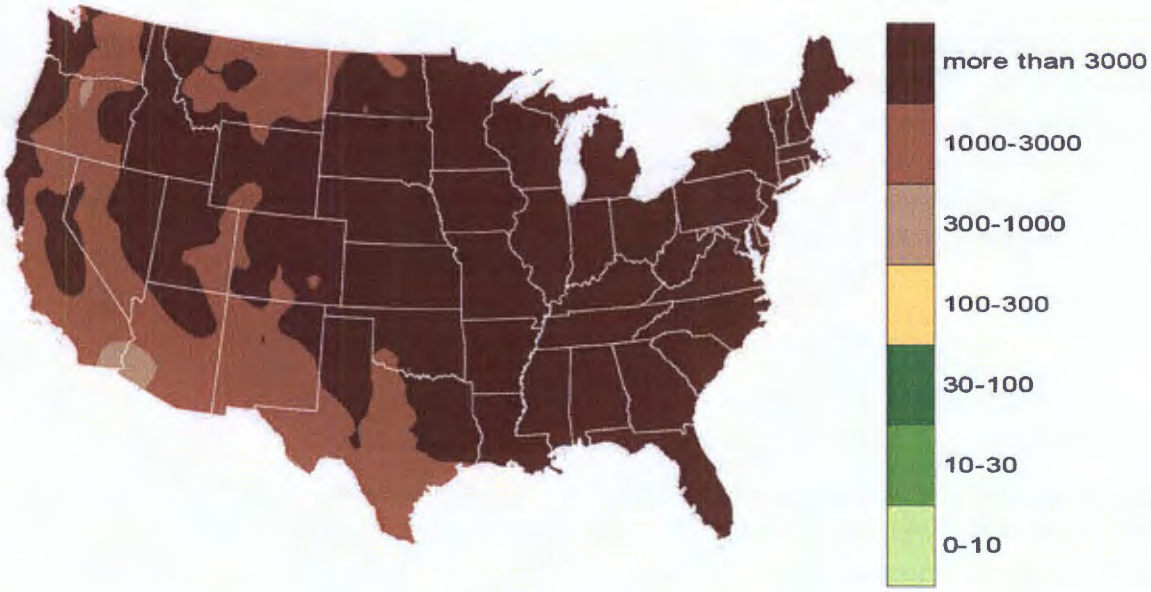

Figure 3.28. Cesium-137 deposition density (Bq/m^2) due to NTS and global fallout.

Figure 6. CDC estimates of Cs137 ground deposition from atmospheric nuclear weapons testing. Note that in the region of southeast New Mexico where the WIPP site is located the estimate is in the range of 1000 to 3000 Bq/m^2.

To date there has been no Cs137 detected in any of the released activity from the Station B stack but the historically ubiquitous anthropogenic Pu deposition can be estimated from Figure 6 using the established WIPP region ratio[v] of Cs/Pu=30 approximation. In other words, the Cs-137 content present in the WIPP area prior to constructing or operating the WIPP was about 30 times larger than the Pu content. Using the values shown in Figure 6 for Cs, the Pu values would then be 30 times lower in surface deposition from global fallout placing the WIPP area at an estimate of 30 to 100 Bq/m^2. Converting this to more familiar units of dpm/ 100 cm^2 is done in Equation 5 resulting in a historic TRU surface deposition concentration estimate of 0.4 dpm/100 cm^2.

$$70\ \frac{Bq}{m^2} = 70\ \frac{Bq}{m^2} \times \frac{60\ dpm}{Bq} \times \left(\frac{1\ m}{100\ cm}\right)^2 = 0.4\ \frac{dpm}{100\ cm^2} \qquad \text{Eqn. 5}$$

With the ubiquitous background being on the order of 1 dpm /100 cm^2 and the deposition projections from the release being on the same order, it seems reasonable to expect a roughly doubling of the offsite background levels for this nuclide. Similarly the estimates onsite for historical levels can be

expected to increase by an order of magnitude over the background levels based solely on the plume projections.

Neither of these levels (onsite or offsite) are detectable and are subsequently consistent will all measurements carried out to date.

It is important to note that a large number of assumptions go into the plume projections and only the source term is really a quality value. The time profile shown in Figure 1 and the projected wind directions shown in Figures 2 through 5 show how largely different the plume distribution is sensitive to the time profile alone. The meteorological data came from NARAC interpolation from data used by the National Weather Service and so incorporates measurements from nearby airports as well as any other available quality measurement data they are able to incorporate.

Conclusions

Plume projections and assessed data measured to date are consistent with conservatively estimating offsite doses to be lower than 10 mrem, likely closer to the 1 mrem range with surface contamination levels being below detection limits.

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[i] 10 CFR 835 Occupational Radiation Protection,

[ii] Alvarez JL, Bennet WS, Davidson TL. Design of an airborne plutonium survey program for personnel protection. *HealthPhys.* **66**, 634-642 (1994).

[iii] Munyon WJ, Lee MB. Summary of stationary and personal air sampling measurements made during a plutonium glovebox decommissioning project. *Health Phys.* **82**, 244-253 (2002)

[iv] NCRP Report No. 94, *Exposure of the Population in the United States and Canada from Natural Background Radiation*. National Council on Radiation Protection Measurements, Bethesda, MD 1992

[v] WIPP TBD 2012-01 Using Isotopic Ratios for Discrimination of Environmental Anthropogenic Radioactivity.

February 14, 2014 Event Bioassay Schedule

Name	Fecal Request	Fecal Obtain	Lab Transport	Lab Report Expected	Urine Request	Urine Obtain	Lab Transport	Lab Report Expected	2nd Urine Request	2nd Urine Obtain	2nd Urine Lab Transport	2nd Urine Lab Report Expected	Whole Body Count Scheduled	Whole Body Count Appointment	Whole Body Count Results
1	02/19/2014	02/20/2014	02/21/2014	3/10/2014	02/19/2014	02/20/2014	02/24/2014	3/31/2014	02/26/2014	02/27/2014	02/27/2014	3/31/2014	02/27/2014	3/1/2014	
2	02/19/2014	02/21/2014	02/21/2014	3/10/2014	02/16/2014	02/17/2014	02/24/2014	3/31/2014	02/26/2014	02/26/2014	02/27/2014	3/31/2014	02/27/2014	3/1/2014	
3	02/19/2014	02/21/2014	02/21/2014	3/10/2014	02/21/2014	02/21/2014	02/24/2014	3/31/2014	02/26/2014	02/27/2014	02/27/2014	3/31/2014	02/27/2014	3/1/2014	
4	02/22/2014	02/23/2014	02/23/2014	3/17/2014	02/22/2014	02/23/2014	02/23/2014	3/17/2014							
5	02/21/2014	02/21/2014	02/24/2014	3/31/2014	02/21/2014	02/21/2014	02/24/2014	3/31/2014							
6	02/22/2014	02/23/2014	02/23/2014	3/17/2014	02/22/2014	02/23/2014	02/23/2014	3/17/2014							
7	02/22/2014	02/23/2014	02/23/2014	3/17/2014	02/22/2014	02/23/2014	02/23/2014	3/17/2014							
8	02/19/2014	02/20/2014	02/21/2014	3/10/2014	02/20/2014	02/22/2014	02/24/2014	3/31/2014	02/26/2014	02/26/2014	02/27/2014	3/31/2014	02/27/2014	3/7/2014	
9	02/19/2014	02/21/2014	02/21/2014	3/10/2014	02/21/2014	02/21/2014	02/24/2014	3/31/2014	02/26/2014	02/27/2014	02/27/2014	3/31/2014	02/27/2014	3/6/2014	
10	02/21/2014	02/22/2014	02/23/2014	3/17/2014	02/15/2014	02/19/2014	02/24/2014	3/31/2014							
11	02/19/2014	02/21/2014	02/21/2014	3/10/2014	02/19/2014	02/20/2014	02/24/2014	3/31/2014	02/26/2014	02/27/2014	02/27/2014	3/31/2014	02/27/2014	02/27/2014	
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13	02/19/2014	02/21/2014	02/24/2014	3/31/2014	02/21/2014	02/22/2014	02/24/2014	3/31/2014					-		
14	02/19/2014	02/21/2014	02/21/2014	3/10/2014	02/21/2014	02/21/2014	02/24/2014	3/31/2014	02/26/2014	02/26/2014	02/27/2014	3/31/2014	02/27/2014	3/1/2014	
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CHAPTER IV
SEISMIC MONITORING SYSTEM – EM04

1.0 GENERAL REQUIREMENTS

The operation of the Seismic Monitoring System shall comply with DOE Order 5480.4 with regard to Environmental and Safety requirements, and to DOE Orders 420.1B and 430.1B with regard to Design and Construction Criteria.

The operation of the Seismic Monitoring System shall satisfy requirements of the Mine Safety and Health Administration Title 30 CFR, Part 57. The revision of these codes in effect at the time of design or design change shall apply.

Equipment assemblies and parts shall be commercially available, interchangeable, standard products to the maximum extent possible.

Electrical systems and equipment shall be in conformance with the National Electrical Code (NFPA 70), National Electrical Safety Code (ANSI C2), and applicable electrical standards.

1.1 System Functional Requirements

Seismic monitoring is performed at two locations at the WIPP site. One is on the surface near the Exhaust shaft and the other is 2150 feet underground on the floor of the mine within the shaft pillar area. The two monitoring areas utilize identical equipment, perform identical measurements, and are not interconnected in any way. The surface seismic monitoring station initiates closure of the tornado dampers in the Waste Handling Building ventilation system whereas the underground station performs no operational function.

Additional seismic monitoring information is available from the United States Geological Survey (USGS), and New Mexico Tech seismographs in the area. Geotechnical Engineering also has numerous ground motion sensors in the underground. These sources provide backup when a site seismic panel is unavailable or a seismic event is below detectable levels. They are not part of System EM04.

1.2 Subsystem and Major Components

1.2.1 Seismic System

The strong motion accelerograph system consist of tri-axial accelerometer sensors, tri-axial seismic switch sensors, solid state recording systems, solid state playback computer systems, graphics printers, floating battery DC, and power supplies, Uninterruptible Power Supply (UPS) and interconnecting cables and connectors.

Site 120 VAC electrical power is brought into the Seismic Monitoring Panel and distributed to the Power Supply Unit for the Seismic Switch, the Record Panel, Alarm

Panel and Tri-axial Accelerometer Sensor, and to the UPS for the Playback and Analysis Computer and Printer.
The Record Panel and UPS contain their own batteries and battery chargers to ensure that these units and the remainder of the system will perform their seismic monitoring function during and following an earthquake even if site electrical power is lost.

The Record Panel supplies 12 VDC to the Seismic Switch Sensor mounted on the concrete slab outside of Building 413A. The front panel of the dual recorder chassis contains two sets of four indicator LEDs and an access door to the PCMCIA flash storage cards. An internally mounted follower relay provides a Design Basis Earthquake (DBE) alarm signal to the Central Monitoring System (CMS) and a control signal to the HV00 system for tornado damper closure.

The Seismic Switch Sensors, located on the outside concrete slab, are an over damped tri-axial low frequency acceleration switch, with individually adjustable vertical (V), longitudinal (L), and transverse (T) detectors that send a relay contact signal to the Record Panel and follower relay whenever the ground acceleration in any one of the three orthogonal directions exceeds the DBE acceleration value (0.1g). A signal bandpass of 1-15 Hz was selected to preclude false triggering on non-seismic events, such as industrial operation, vehicular and other local vibrations.

The Record Panel which then provides 12 VDC continuously to the Tri-axial Accelerometer Sensors located on the outdoor concrete slab. It includes a 12-volt battery and charger for uninterruptible power supply to the Record Panel. It also contains relays for Seismic Recording, Seismic Event, Loss of AC, and Loss of DC alarms which are connected to the Central Monitoring System for display and annunciation in the Central Monitoring Room.

The Tri-axial Accelerometer Sensors consists of three independent, orthogonally mounted (longitudinal, vertical, and transverse), highly damped, force balance accelerometers. Each functions separately; supplying a voltage signal to the Record Panel which is proportional to the acceleration in its orthogonal direction.

The Record Panel has a digital triggering system which continuously monitors the signals sent by the Tri-axial Accelerometer Sensors to the dual recorders. When the seismic motion exceeds the preprogrammed trigger threshold the recorder begins sampling data concurrently on three channels, one channel for each of the orthogonally mounted accelerometers, and stores it on a PCMCIA card. The recording continues for a reselected amount of time after the seismic activity drops and remains below the trigger threshold. The event data remains in memory until erased by the Administrator.

The Playback and Analysis Computer is an automatic data retrieval and analysis system based on a high speed, industrial quality, and rack mount computer. The computer remains on at all times monitoring the triggering activity of the Record Panel. When the Record Panel records an event and has de-triggered the computer interrogates the Record Panel and downloads the event files to retrieve the time history data for automatic response spectrum analysis. If the preprogrammed response spectra values of 0.015g, over a frequency range of 1 to 50 hertz, are exceeded a signal is

generated to activate the Seismic Event alarm light on the Alarm Panel and audible and visual alarms in the Central Monitoring Room. The Playback and Analysis Computer is powered from an Uninterruptible Power Supply.

The System Printer automatically receives response spectra plots and an event summary from the Playback and Analysis Computer for immediate printout following a seismic event. The System Printer is powered from the same UPS that provides power to the Playback and Analysis Computer.

Past events are saved on the computer and may be retrieved for printing or copying to other media storage.

1.2.2 Surface Seismic Station

The electronics, signal conditioning equipment, computer, printer, and power supplies are located in the Seismic Monitoring Panel which is housed in Building 413A.

The seismic sensors are all located on a single concrete slab (Free Field Station) approximately ten feet east of Building 413A.

The seismic monitoring stations function provides signals to other systems.

1.2.3 Underground (U/G) Seismic Station

The U/G seismic station is identical to and completely separate from the surface seismic station. The U/G free field station is located near the intersection of drift E-140 and S-90. The U/G Seismic Monitoring Panel is located in the S-90 within the Electrical Substation #1 area. The Alarm Panel in the U/G Seismic Monitoring Panel does not provide a signal for tornado damper closure in the HV00 system.

1.3 Boundaries and Interfaces

The Seismic Monitoring Stations rely on the systems listed below in Table IV-3.

System Identifier	Title
CF-GC00	Plant Buildings, Facilities, and Miscellaneous Equipment
AU00	Underground Facilities and Equipment
CM-PC00	Plant Monitoring and Communications
ED00	Electrical System
HV00	Heating, Ventilation, and Air Conditioning

TIME	U/G SEISMIC EVENT (NORMAL)	U/G SEISMIC-LOSS OF DC	U/G SEISMIC-LOSS OF AC	SURFACE SEISMIC EVENT	SURFACE SEISMIC-LOSS OF DC	SURFACE SEISMIC-LOSS OF AC	SURFACE EARTHQUAKE	UNDERGROUND EARTHQUAKE	U/G SEISMIC RECORDING	SURFACE SEISMIC RECORDING
14/02/2014 22:00:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:00:14	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:00:29	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:00:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:00:58	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:01:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:01:27	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:01:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:01:56	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:02:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:02:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:02:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:02:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:03:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:03:22	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:03:37	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:03:51	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:04:06	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:04:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:04:35	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:04:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:05:04	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:05:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:05:33	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:05:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:06:01	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:06:16	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:06:30	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:06:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:06:59	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:07:14	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:07:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:07:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:07:57	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:08:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:08:26	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:08:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:08:55	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:09:09	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:09:24	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:09:38	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:09:53	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:10:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:10:22	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:10:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:10:51	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:11:05	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:11:20	1	1	1	0	0	0	0	1	1	1

14/02/2014 22:11:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:11:48	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:12:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:12:17	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:12:32	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:12:46	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:13:01	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:13:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:13:30	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:13:44	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:13:59	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:14:13	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:14:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:14:42	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:14:56	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:15:11	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:15:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:15:40	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:15:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:16:09	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:16:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:16:38	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:16:52	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:17:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:17:21	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:17:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:17:50	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:18:04	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:18:19	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:18:33	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:18:48	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:19:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:19:17	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:19:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:19:46	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:20:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:20:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:20:29	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:20:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:20:58	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:21:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:21:27	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:21:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:21:56	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:22:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:22:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:22:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:22:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:23:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:23:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:23:37	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:23:51	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:24:06	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:24:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:24:35	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:24:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:25:04	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:25:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:25:33	1	1	1	0	0	0	0	1	1	1

14/02/2014 22:25:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:26:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:26:16	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:26:30	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:26:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:26:59	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:27:14	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:27:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:27:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:27:57	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:28:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:28:26	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:28:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:28:55	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:29:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:29:24	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:29:38	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:29:53	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:30:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:30:22	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:30:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:30:51	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:31:05	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:31:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:31:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:31:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:32:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:32:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:32:32	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:32:46	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:33:01	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:33:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:33:30	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:33:44	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:33:59	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:34:13	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:34:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:34:42	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:34:57	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:35:11	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:35:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:35:40	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:35:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:36:09	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:36:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:36:38	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:36:52	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:37:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:37:21	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:37:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:37:50	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:38:05	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:38:19	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:38:33	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:38:48	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:39:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:39:17	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:39:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:39:46	1	1	1	0	0	0	0	1	1	1

14/02/2014 22:40:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:40:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:40:29	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:40:44	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:40:58	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:41:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:41:27	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:41:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:41:56	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:42:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:42:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:42:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:42:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:43:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:43:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:43:37	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:43:52	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:44:06	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:44:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:44:35	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:44:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:45:04	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:45:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:45:33	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:45:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:46:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:46:16	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:46:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:46:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:47:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:47:14	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:47:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:47:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:47:57	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:48:12	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:48:26	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:48:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:48:55	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:49:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:49:24	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:49:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:49:53	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:50:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:50:22	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:50:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:50:51	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:51:05	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:51:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:51:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:51:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:52:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:52:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:52:32	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:52:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:53:01	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:53:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:53:30	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:53:44	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:53:59	1	1	1	0	0	0	0	1	1	1

14/02/2014 22:54:13	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:54:28	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:54:42	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:54:57	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:55:11	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:55:26	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:55:40	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:55:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:56:09	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:56:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:56:38	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:56:52	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:57:07	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:57:21	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:57:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:57:50	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:58:05	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:58:19	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:58:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:58:48	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:59:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:59:17	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:59:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 22:59:46	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:00:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:00:15	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:00:29	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:00:44	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:00:58	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:01:13	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:01:27	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:01:42	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:01:56	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:02:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:02:25	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:02:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:02:54	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:03:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:03:23	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:03:37	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:03:52	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:04:06	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:04:35	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:04:49	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:05:18	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:05:33	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:05:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:06:02	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:06:16	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:06:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:06:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:07:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:07:14	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:07:29	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:07:43	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:07:57	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:08:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:08:55	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:09:10	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:09:24	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:09:53	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:10:51	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:11:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:11:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:11:49	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:12:32	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:19:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:19:17	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:19:46	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:20:58	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:21:13	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:21:27	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:21:42	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:21:56	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:23:08	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:24:50	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:25:33	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:26:31	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:26:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:27:00	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:27:14	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:27:43	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:28:12	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:28:41	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:28:55	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:29:24	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:30:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:30:22	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:30:51	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:31:20	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:31:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:31:49	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:32:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:32:18	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:32:47	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:33:01	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:33:30	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:33:59	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:35:11	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:35:26	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:35:40	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:35:55	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:36:09	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:36:24	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:36:38	1	1	1	0	0	0	0	1	1	1

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14/02/2014 23:37:21	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:37:36	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:37:50	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:38:05	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:38:34	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:38:48	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:39:17	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:39:46	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:40:29	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:42:54	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:43:37	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:45:04	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:45:19	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:45:48	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:46:02	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:46:45	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:47:00	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:47:29	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:47:58	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:48:41	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:49:24	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:49:39	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:49:53	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:50:08	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:50:22	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:50:37	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:51:35	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:52:03	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:52:18	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:52:47	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:53:59	1	1	1	0	0	0	0	1	1	1
14/02/2014 23:54:14	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:55:26	1	1	1	0	0	0	0	1	1	1
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14/02/2014 23:56:38	1	1	1	0	0	0	0	1	1	1
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15/02/2014 00:56:10	1	1	1	0	0	0	0	1	1	1
15/02/2014 00:56:24	1	1	1	0	0	0	0	1	1	1
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15/02/2014 01:00:30	1	1	1	0	0	0	0	1	1	1
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15/02/2014 01:56:24	1	1	1	0	0	0	0	1	1	1
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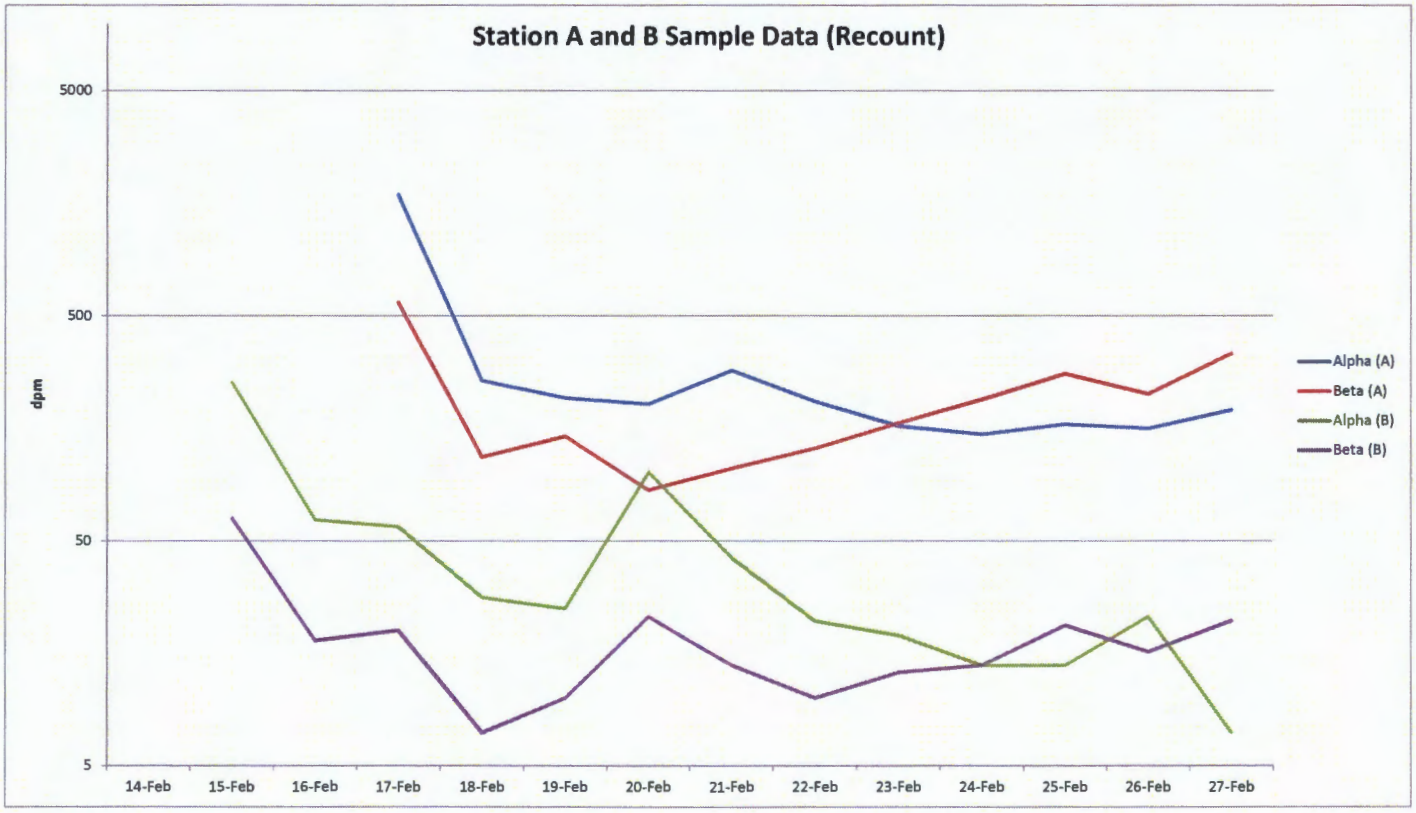
15/02/2014 01:56:53	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:57:08	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:57:22	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:57:37	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:57:51	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:58:05	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:58:20	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:58:34	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:58:49	1	1	1	0	0	0	0	1	1	1

15/02/2014 01:59:03	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:59:18	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:59:32	1	1	1	0	0	0	0	1	1	1
15/02/2014 01:59:47	1	1	1	0	0	0	0	1	1	1
15/02/2014 02:00:01	1	1	1	0	0	0	0	1	1	1
15/02/2014 02:00:16	1	1	1	0	0	0	0	1	1	1
15/02/2014 02:00:30	1	1	1	0	0	0	0	1	1	1
15/02/2014 02:00:45	1	1	1	0	0	0	0	1	1	1
15/02/2014 02:00:59	1	1	1	0	0	0	0	1	1	1

Date	A Alpha (A)	Beta (A)	B 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