



Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Friday, May 02, 2014 10:05 AM
To: Allen, Pam, NMENV
Subject: FW: WIPP Station A and B Data
Attachments: Environmental Air Sampler Filter Status_NMED.doc; Station A and B Samples History 2-20-14 R0_NMED.docx

Importance: High

Email and att for WIPP file

From: Kliphuis, Trais, NMENV
Sent: Friday, February 21, 2014 3:38 PM
To: Flynn, Ryan, NMENV; Kendall, Jeff, NMENV
Cc: Blaine, Tom, NMENV; Skibitski, Thomas, NMENV; LucasKamat, Susan, NMENV; Kieling, John, NMENV; Maestas, Ricardo, NMENV; Holmes, Steve, NMENV; Smith, Coleman, NMENV; Stone, Nick (stone.nick@epa.gov)
Subject: WIPP Station A and B Data
Importance: High

Station A and B Data

From: Basabilvazo, George - DOE [<mailto:George.Basabilvazo@wipp.ws>]
Sent: Friday, February 21, 2014 3:03 PM
To: Kliphuis, Trais, NMENV; Franco, Jose - FedNet; Bryson, Dana - CBFO External Contact
Cc: Vincent, Oba - Fednet; Chavez, Rick - RES
Subject: Information

Trais,

Here are the two tables we discussed. Thanks for your patience.

Best regards, <<Environmental Air Sampler Filter Status_NMED.doc>> <<Station A and B Samples History 2-20-14 R0_NMED.docx>>

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Environmental Air Filter Analytical Status
Preliminary Information – Not for Public Release

Location	Sample ID	Filter Install Date	Filter Retrieval Date	Gross α / β Count			Radiochemistry						
				Field Smears and Surveys of Sampling Equipment and Area	* Initial 10 Minute DPM Gross α / β Count > 200 α > 600 β	ISOLO Spectrum Analyzer	Data from WIPP Labs	Am-241 Bq/mL x 10 ⁻¹²		Pu-238 Bq/mL x 10 ⁻¹²		Pu-239/240 Bq/mL x 10 ⁻¹²	
								Baseline Value**	Sample	Baseline Value**	Sample	Baseline Value**	Sample
WIPP Farfield (WFF)	AL-WFF-20140212-1.1	2/11/14	2/15/14	Field Smears and Surveys at accepted levels	Within Radon Background	36 DPM counted on 2/18/14	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
WIPP Farfield (WFF)	AL-WFF-20140219-1.1	2/15/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
WIPP East (WEE)	AL-WEE-20140212-1.1	2/11/14	2/17/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
WIPP South (WSS)	AL-WSS-20140212-1.1	2/11/14	2/17/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
Mills Ranch (MLR)	AL-MLR-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
Smith Ranch (SMR)	AL-SMR-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
Carlsbad (CBD)	AL-CBD-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
South East Control (SEC)	AL-SEC-20140212-1.2	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =
South East Control (SEC) Blank sample	AL-SEC-20140212-2.2	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =
								σ = 9.7	TPU =	σ = 7.7	TPU =	σ = 3.3	TPU =

* 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.

** These values are from the DOE/WIPP 92-037, Attachment 1, Statistical Summary of the Radiological Baseline for the WIPP, Table 3-10. These values were derived from the summary statistics for samples at all locations in the baseline. The Units are noted as Becquerels per milliliter x 10⁻¹² or Becquerels per cubic meter x 10⁻⁶
TPU = Total Propagated Uncertainty

**Station A and B Filter Readings Following 02-14-14 Radiological Event
Preliminary Information – Not for Public Release**

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	A-2-3		First Count	Re-count	
						Alpha (dpm)	Beta (dpm)		Alpha (dpm)	Beta (dpm)
2-14-14	2/14/14 0742	2/15/14 0630	A23021414	Tennelec XLB	10 Mins	4.4M	1.2M	021514/0649		
2-15-14	2/15/14 0630	2/15/14 0840	A23021514	Tennelec XLB	10 Mins	225K	46.8K	021514/0916		
2-15-14	2/15/14 0840	2/15/14 1510	A23021514 0840	Tennelec XLB	10 Mins	285k	54k	021514/1541		
2-15-14	2/15/14 1510	2/15/14 2330	A23021514 1510	Tennelec XLB	10 Mins	124050	24481	021614/0012		
2-15-14	2/15/14 2330	2/16/14 0850	A23021514 2330	Tennelec XLB	10 Mins	47283	10558	021614/0917		
2-16-14	2/16/14 0850	2/16/14 1648	A23021614 0850	Tennelec XLB	10 Mins	12215	2842	021614/1927		
2-16-14	2/16/14 1648	2/17/14 0015	A23021614 1650	Tennelec XLB	10 Mins	4051	1256	021714/0046		
2-17-14	2/17/14 0015	2/17/14 0820	A23021714 0015	Tennelec XLB	10 Mins	1802	638	021714/0942	021714/1012	
									1723	573
2-17-14	2/17/14 0820	2/17/14 1620	A23021714 0820	Tennelec XLB	10 Mins	1048	621	021714/1705		
2-	2/17/14	2/18/14	A23021714	Tennelec	10	802	633	021814/0051	021814/0423	

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Station A and B Filter Readings Following 02-14-14 Radiological Event
Preliminary Information – Not for Public Release

17-14	1620	0010	1620	XLB	Mins				633	230
									021814/0751	
									592	210
2-18-14	2/18/14 0010	2/18/14 0820	A23021814 0010	Tennelec XLB	10 Mins	326	338	021814/0928	021814/1202	
									237	157
									021814/1824	
									212	116
2-18-14	2/18/14 0820	2/18/14 1605	A23021814 0820	Tennelec XLB	10 Mins	609	780	021814/1624	021914/0315	
									258	118
2-18-14	2/18/14 1605	2/19/14 0035	A23021814 1605	Tennelec XLB	10 Mins	346	340	021914/0143	021914/0547	
									227	143
2-19-14	2/19/14 0035	2/19/14 0823	A23021914 0040	Tennelec XLB	10 Mins	224	320	021914/0952	021914/1222	
									136	143
2-19-14	2/19/14 0823	2/19/14 1600	A23021914 0823	Tennelec XLB	10 Mins	264	443	021914/1708	021914/2046	
									130	137
2-19-14	2/19/14 1600	2/20/14 0018	A23021914 1600	Tennelec XLB	10 Mins	286	378	022014/0124		
									150	

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Station A and B Filter Readings Following 02-14-14 Radiological Event
Preliminary Information – Not for Public Release

Station B

Date	Time Installed	Time Removed	Filter ID	Inst Model	Count time	B-1-3		First Count	Re-count	
						Alpha (dpm)	Beta (dpm)		Alpha (dpm)	Beta (dpm)
2-14-14	2/14/14 0754	2/15/14 0835	B13021414	Tennelec XLB	10 Mins	28205	5877	021514/0850		
2-15-14	2/15/14 0835	2/15/14 1445	B13021514	Tennelec XLB	10 Mins	36194	7340			
2-15-14	2/15/14 1445	2/15/14 2305	B130215141445	Tennelec XLB	10 Mins	671	142	021714/1056		
2-15-14	2/15/14 2305	2/16/14 0904	B130215142305	Tennelec XLB	10 Mins	300	152	021614/0932	021614/1127	
									253	63
									021614/1250	
									245	59
									021614/1741	
240	49									
2-16-14	2/16/14 0904	2/16/14 1705	B130216140904	Tennelec XLB	10 Mins	144	67	021614/1755		
2-16-14	2/16/14 1705	2/17/14 0030	B130216141705	Tennelec XLB	10 Mins	72	54	021714/0046	021714/1203	
									62	18
2-17-14	2/17/14 0030	2/17/14 0805	B130216140030	Tennelec XLB	10 Mins	43	26	021714/0930	021714/0955	
									30	23
									021714/1400	
									32	16

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Station A and B Filter Readings Following 02-14-14 Radiological Event
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2-17-14	02/17/14 0805	2/17/14 1600	B130217140805	Tennelec XLB	10 Mins	78	35	021714/1650	021714/1958	
									58	20
									021814/1823	
									24	13
2-17-14	2/17/14 1600	2/18/14 0030	B130217141600	Tennelec XLB	10 Mins	65	55	021814/0051	021814/0423	
									45	18
									021814/0751	
									36	12
2-18-14	2/18/14 0030	2/18/14 0901	B130218140030	Tennelec XLB	10 Mins	42	61	021814/0928	021814/1202	
									23	12
2-18-14	2/18/14 0901	2/18/14 1655	B130218140901	Tennelec XLB	10 Mins	41	29	021814/1754	021914/0315	
									28	7
2-18-14	2/18/14 1655	2/19/14 0105	B130218141655	Tennelec XLB	10 Mins	42	36	021914/0144	021914/0547	
									20	7
2-19-14	2/19/14 0105	2/19/14 0900	B130219140105	Tennelec XLB	10 Mins	33	44	021914/0952	021914/1222	
									20	15
2-19-14	2/19/14 0900	2/19/14 1627	B130219140900	Tennelec XLB	10 Mins	36	34	021914/1708	021914/2036	
									25	10
2-19-14	2/19/14 1627	2/20/14 0035	B130219141627	Tennelec XLB	10 Mins	45	46	022014/0107	022014/0359	
14									25	9

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