ENTERED

Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Thursday, December 18, 2014 8:59 AM
To: Allen, Pam, NMENV
Subject: FW: WIPP Information - For Call Today
Attachments: LANL Daily Report 5 20 14.docx; Summary from 05-17-2014.docx; Summary for 05-21-2014 830 call.docx; WIPP Order 05-20001.pdf; Environmental Sampling 2014-05-20 0900_bw_dg.xlsx; 41-b-857 WHT dp Daily Averages_5-20-14.pdf; 41-b-856 WHT dp Daily Averages_5-20-14.pdf; 20140513 anion sys2r.xls; 20140515 anions sys2r.xls; TC 65779_Young_05_14_2014_CR.xls; TC 65783_Young_05_16_2014_CR.xls; tictoc results smears.pdf; WIPP FAS Sample May 2014.xlsx; 1300 Meeting Action Items 052014.xlsx

May

From: Maestas, Ricardo, NMENV
Sent: Wednesday, May 21, 2014 3:21 PM
To: Flynn, Ryan, NMENV; Kendall, Jeff, NMENV
Cc: Winchester, Jim, NMENV; Tongate, Butch, NMENV; Schwender, Erika, NMENV; Blaine, Tom, NMENV; Skibitski, Thomas, NMENV; Kieling, John, NMENV; Holmes, Steve, NMENV; LucasKamat, Susan, NMENV; Turner, Jill, NMENV; Nelson, Morgan, NMENV; Ines Triay (triayin@fiu.edu); Maestas, Ricardo, NMENV; Smith, Coleman, NMENV; Kliphuis, Trais, NMENV
Subject: FW: WIPP Information - For Call Today

NMED notes in blue

From: Oba Vincent [mailto:oba.vincent@cbfo.doe.gov]
Sent: Wednesday, May 21, 2014 11:09 AM
To: Kliphuis, Trais, NMENV; 'peake.tom@epa.gov'; 'Edwards, Jonathan'; 'Walsh, Jonathan'; 'Perrin, Alan'; 'Kehrman, Bob - RES'; 'Chavez, Rick - RES'; 'Stone.Nick@epa.gov'; Smith, Coleman, NMENV; 'brozowski.george@epa.gov'; 'Fraass, Ron'; 'Hardy, Russell'; 'Veal.Lee@epamail.epa.gov'; 'Economy, Kathleen (Economy.Kathleen@epa.gov)'; 'Poppell, Sam W. (Poppell.Sam@epa.gov)'; Maestas, Ricardo, NMENV; 'Faller, Scott H.'
Cc: George Basabilvazo - WIPPNet; 'Reynolds, Tammy - NWP'; 'Harris, Alton - DOE EM'; Susan McCauslin; 'Joe Harvill (jharvill@portageinc.com)'; 'Kennedy, Scott - NWP'; 'Jones, Stewart - RES'; 'Oates, Berta - CTAC'; 'schultheisz.daniel@epa.gov'; Philip Theisen - ORISE; Russ Patterson - WIPPNet; 'Kouba, Steve - WRES'; Roger Nelson - WIPPNet; 'Bignell, Dale - CTAC'; Susan McCauslin - WIPPNet; 'Pace, Berry'; Anthony Stone - WIPPNet; J.R. Stroble - WIPPNet; 'Lynnes, Kate'; Heidi Lowe; 'skeffer@projectenhancement.com'
Subject: WIPP Information - For Call Today

Attached is the latest version of the action items

---

http://www.ees.nmt.edu/eworm-heli/

Provided is the link to the NM Tech webpage that presents the seismic monitoring data using the WIPP network.

Thanks

Oba

Attached are the action item list, sample result data, LANL daily reports, filter data and Station A/B data.

140581

Below is a summary of activities: (Please note, activities and dates are subject to change. Please verify the most current dates of any information provided).

- SS and AIS Shaft/Rope Inspections: The weekly MSHA inspection of the AIS and SS was completed on 5/20.
- 5/19/14 entry (formerly Activity 10): The focus of the entry was to obtain pictures from all sides of the waste stack where the breached drum was observed and to obtain pictures further down along the sides of the waste stack. A new titanium pole and rope camera was used. Additional drums in the area of concern appear to be damaged and will be evaluated further (all from the Min-02 waste stream.)
    - New possible concerns area identified-
        - 15-5 (row-column) middle, appears deformed to some, possible separation of lid
            -10 minute mark through 11min mark of 5/19 entry video
        - 13-3 middle, heat stress
- Planned 5/22/14 entry (formerly Activity 11): During this activity, it is anticipated that MgO samples will be collected, data will be downloaded from the continuous air monitor (CAM) at Panel 7 and additional video collected. Details are being finalized on 5/21.
- Planned 5/28/14 entry: Additional investigation of the area of concern with an emphasis on sample collection – details pending.
- Filter replacement has been postponed (may take place on 5/29 or 5/30) to allow for additional underground entries. Construction of the containment tents required for the activity is complete. Installation of the make-up air inlet into the ductwork and ventilation configuration changes are being rescheduled as well.
- NMED issued an Administrative Order (attached) requiring a plan be submitted for the "expedited closure" of Panel 6 and Panel 7, Room 7 by 5/30.
- Attached and posted on the Portal are preliminary sample results from wipes and the PAS in the U/G. A compilation of data has yet to be generated.

<u>8:30 am Call</u>

SRS-

- Used ICPMS to get U and Pu isotopics and analysis showed 7% Pu 240 while the weapons grade limit is 6% therefore there must be a mixture of weapons grade Pu and other Pu.
- Working on Sample reports , analysis and executive summary

LANL-

- Working on the NMED AO
- Started HSG sampling on sibling drum #68660
- Storage of SWBs in Dome 375 will start tomorrow

WCS-

- Continuing daily inspections
- May start over packing SWBs in concrete canisters, may have weather delays over weekend
- Thermal imaging- no concerns

WIPP-

- 5/19 entry video being review continues
- Next entry is 2/22-will take a MgO sample and look at concern areas
- New possible concerns area identified-

    - 15-5 (row-column) middle, appears deformed to some, possible separation of lid
        - 10 minute mark through 11min mark of 5/19 entry video
    - 13-3 middle, heat stress
- Previously discovered breached drum is at 16-4, still not sure which one of two possible LANL it is
- FTP Folder is being set up-HWB asked for access
-

NOTE CALL-IN NUMBER: 1 888 413 3490, Code 7175394

Thank you

Oba

WIPP Event Investigation
LANL Summary of 5/20 Providing Input for WIPP Daily Meeting on 5/21

LANL Scientific and Operational Activities

- The third TRUPACT II shipping containers were unloaded and the SWB containers containing remediated nitrate salt waste were moved to Dome 230 with the other remediated nitrate salt waste. All TRUPACTs at RANT have now been unloaded and remediated nitrate salt containers stored in Dome 230 and the RANT facility has been placed in cold standby.
- Daily headspace gas sampling through the filter on the SWB containing drum #68660 was taken and data is being logged and evaluated for trends.
- Preparing the Dome 375 Permacon to store the SWB over-packs of remediated nitrate salt waste. Target to be ready for storage is 5/22.
- Held Area G walkthrough and discussions with the LANL Emergency Management and Response Organization (EM&RO) regarding the information and storage configuration of the remediated and un-remediated nitrate salt waste at LANL. EM&RO provided an additional thermal imaging camera for monitoring the waste.
- Provided input to WIPP of analytical suggestions of activities that would be of value for the next entries. Some of the suggestions were obtaining MgO samples from several areas at the surface and below surface, obtaining samples from the yellow residue at the breach point on the suspect drum, obtaining an air sample for gas analysis, obtaining a tape line of sample from the container opening and going back, use of a gamma camera, and I/R thermal imaging. We would like to further discuss the thermal imaging.
- SWheat kitty litter was sent to a certified laboratory for flammability testing.
- With AIB members present, gamma counting of the FAS sample was initiated.
- The reaction chemistry team initiated discussions on samples, analyses and experiments to further their evaluation.
- LANL ORPS report issued. Currently working the USQ and Evaluation of the Safety of the Situation (ESS) for the Potentially Inadequate Safety Analysis (PISA).
- Held the kickoff meeting for remediation and treatment planning.
- Remote monitoring being evaluated for Constant Air Monitor readouts located in the nitrate salt waste storage areas.
- Reviewed the 5/19 entry WIPP video possibly indicating an additional two potential drums with container damage. Information gathering is in process.
- No issues were identified in daily inspections of the LANL remediated salt waste on 5/20.

Coordination and Communications

- Coordinated a meeting with the newly formed Multi Laboratory Technical Support Team, AIB, CBFO, NWP and LANL/LANL Field Office. The meeting was a kick-off to describe the Team's Charter and to obtain feedback on the expectations of the AIB. Roles and responsibilities and how best to support the AIB were key topics. Timelines for developing sample matrices and detailed sample analysis plans were discussed.

- Transferred the Energy Solutions report for the neutralization usage study to the LANL folder at WIPP.
- Preparing response to the NMED Administrative Order.

Summary from 05-17-2014 830 call

Below are SRNL preliminary data from RCO smears and FAS filter analysis.

RCO Smears

Sample ID	SRNL LIMS#
Leach blank	300311087
Wipe#1	300311088
Wipe#2	300311089
Digestion blank	300311090
Wipe #3	300311091
Wipe #4	300311092

	Fluoride	Formate	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	Oxalate
SPL ID	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe
300311087	<275	<275	110	<55	<55	<55	330	275	<55
300311088	<260	<260	5820	<52	<52	<52	<52	520	<52
300311089	<215	<215	58500	<43	<43	<43	<43	1550	<43

USER_SAMPLEID:	ADS GENERATED BLANK		WIPE #3 (300311071)		WIPE #5 (300311073)	
SAMPLE_ID:	300311090		300311091		300311092	
UNITS:	ug/g		ug/g		ug/g	
Element						
Ag	< 1.42	(N/A %RSD)	< 1.33	(N/A %RSD)	< 1.41	(N/A %RSD)
Al	31	(11.3 %RSD)	57.8	(10.5 %RSD)	27.9	(12.8 %RSD)
B	< 20.5	(N/A %RSD)	20.1	(10.6 %RSD)	< 20.3	(N/A %RSD)
Ba	0.937	(97.7 %RSD)	1.04	(28.9 %RSD)	0.86	(4410 %RSD)
Be	< 0.105	(N/A %RSD)	< 0.098	(N/A %RSD)	< 0.104	(N/A %RSD)
Ca	476	(10 %RSD)	515	(10 %RSD)	313	(10 %RSD)
Cd	< 1.48	(N/A %RSD)	< 1.38	(N/A %RSD)	< 1.46	(N/A %RSD)
Ce	< 11.9	(N/A %RSD)	< 11.1	(N/A %RSD)	< 11.8	(N/A %RSD)

Co	< 2.52	(N/A %RSD)	< 2.35	(N/A %RSD)	< 2.49	(N/A %RSD)
Cr	< 1.42	(N/A %RSD)	2.09	(11.8 %RSD)	3.51	(11.4 %RSD)
Cu	< 2.9	(N/A %RSD)	< 2.71	(N/A %RSD)	< 2.86	(N/A %RSD)
Fe	35.9	(10 %RSD)	94.6	(10 %RSD)	70	(10 %RSD)
Gd	< 6.03	(N/A %RSD)	< 5.63	(N/A %RSD)	< 5.95	(N/A %RSD)
K	< 54.8	(N/A %RSD)	153	(14.4 %RSD)	< 54.1	(N/A %RSD)
La	< 1.5	(N/A %RSD)	< 1.4	(N/A %RSD)	< 1.48	(N/A %RSD)
Li	< 6.69	(N/A %RSD)	< 6.25	(N/A %RSD)	< 6.61	(N/A %RSD)
Mg	230	(10 %RSD)	17600	(10 %RSD)	6100	(10 %RSD)
Mn	1.88	(12.2 %RSD)	5.38	(10.3 %RSD)	2.78	(10.9 %RSD)
Mo	< 15.7	(N/A %RSD)	< 14.7	(N/A %RSD)	< 15.5	(N/A %RSD)
Na	358	(10.2 %RSD)	16100	(10.3 %RSD)	1660	(13.8 %RSD)
Ni	< 12.6	(N/A %RSD)	< 11.8	(N/A %RSD)	< 12.4	(N/A %RSD)
P	187	(10.1 %RSD)	65.8	(11.1 %RSD)	65.6	(10.3 %RSD)
Pb	< 10.3	(N/A %RSD)	< 9.65	(N/A %RSD)	< 10.2	(N/A %RSD)
S	< 1580	(N/A %RSD)	< 1480	(N/A %RSD)	< 1560	(N/A %RSD)
Sb	< 30.5	(N/A %RSD)	< 28.5	(N/A %RSD)	< 30.1	(N/A %RSD)
Si	263	(10 %RSD)	348	(10 %RSD)	222	(10.1 %RSD)
Sn	< 107	(N/A %RSD)	< 99.8	(N/A %RSD)	< 106	(N/A %RSD)
Sr	< 15.7	(N/A %RSD)	< 14.7	(N/A %RSD)	< 15.5	(N/A %RSD)
Th	< 10.1	(N/A %RSD)	< 9.39	(N/A %RSD)	< 9.93	(N/A %RSD)
Ti	< 4.43	(N/A %RSD)	< 4.13	(N/A %RSD)	< 4.37	(N/A %RSD)
U	< 103	(N/A %RSD)	< 95.8	(N/A %RSD)	< 101	(N/A %RSD)
V	< 0.748	(N/A %RSD)	< 0.748	(N/A %RSD)	< 0.739	(N/A %RSD)
Zn	3.69	(13.3 %RSD)	9.04	(10.2 %RSD)	4.56	(10.3 %RSD)
Zr	< 23.1	(N/A %RSD)	< 21.6	(N/A %RSD)	< 22.8	(N/A %RSD)

Fixed Air Sampler (FAS)

Sample ID	SRNL LIMS#
FAS leach blank	300311131
FAS section C	300311132
FAS digestion blank	300311129
FAS section D	300311130

	Fluoride	Formate	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	Oxalate
SPL ID	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe
300311131	10900	5440	1810	<1810	<1810	<1810	<1810	<1810	<1810
300311132	5860	5860	21500	<977	<977	2930	<977	14700	1950

USER_SAMPLEID:	ADS GENERATED BLANK	300311038_D(311109)
SAMPLE_ID:	300311129	300311130
UNITS:	ug/smear	ur/smear
Element		
Ag	< 10.8 (N/A %RSD)	< 10.8 (N/A %RSD)
Al	< 61.9 (N/A %RSD)	268 (11.8 %RSD)
B	< 156 (N/A %RSD)	< 156 (N/A %RSD)
Ba	< 5.6 (N/A %RSD)	< 5.6 (N/A %RSD)
Be	< 0.8 (N/A %RSD)	< 0.8 (N/A %RSD)
Ca	< 100 (N/A %RSD)	< 100 (N/A %RSD)
Cd	< 11.2 (N/A %RSD)	< 11.2 (N/A %RSD)
Ce	< 90.6 (N/A %RSD)	< 90.6 (N/A %RSD)
Co	< 19.1 (N/A %RSD)	< 19.1 (N/A %RSD)

Cr	< 20	(N/A %RSD)	< 20	(N/A %RSD)
Cu	< 22	(N/A %RSD)	< 22	(N/A %RSD)
Fe	122	(10.1 %RSD)	290	(10 %RSD)
Gd	< 45.8	(N/A %RSD)	< 45.8	(N/A %RSD)
K	< 416	(N/A %RSD)	< 416	(N/A %RSD)
La	< 11.4	(N/A %RSD)	< 11.4	(N/A %RSD)
Li	< 50.8	(N/A %RSD)	< 50.8	(N/A %RSD)
Mg	58.7	(10 %RSD)	5420	(10 %RSD)
Mn	< 7.28	(N/A %RSD)	7.4	(13.5 %RSD)
Mo	< 119	(N/A %RSD)	< 119	(N/A %RSD)
Na	< 349	(N/A %RSD)	4660	(10.1 %RSD)
Ni	< 95.6	(N/A %RSD)	< 95.6	(N/A %RSD)
P	< 284	(N/A %RSD)	< 284	(N/A %RSD)
Pb	< 78.4	(N/A %RSD)	458	(10.7 %RSD)
S	< 12000	(N/A %RSD)	< 12000	(N/A %RSD)
Sb	< 232	(N/A %RSD)	< 232	(N/A %RSD)
Si	< 155	(N/A %RSD)	700	(10.2 %RSD)
Sn	< 811	(N/A %RSD)	< 811	(N/A %RSD)
Sr	< 119	(N/A %RSD)	< 119	(N/A %RSD)
Th	< 76.3	(N/A %RSD)	< 76.3	(N/A %RSD)
Ti	< 33.6	(N/A %RSD)	< 33.6	(N/A %RSD)
U	< 779	(N/A %RSD)	< 779	(N/A %RSD)
V	< 5.68	(N/A %RSD)	< 5.68	(N/A %RSD)
Zn	< 50	(N/A %RSD)	< 50	(N/A %RSD)
Zr	< 175	(N/A %RSD)	< 175	(N/A %RSD)

WCS

- Continuing Visual Inspections
- Continuing Thermography
- Preparing to move 73 SWBs into MCCs,
    - Evaluating use of pea gravel to surround SWB in MCC

WIPP

- LCO initiated
- ORPS update due to 'fire' as seen from recent entry and discovery of a Breached container and evidence of heat.
- Entry is being planned for Monday.
    - Additional video of area adjacent to breached container
    - Lower the camera below the top column position to assess extent of damage
    - ID container number in 7-pack to zero in on breached container ID.
    - Potential sample of MgO
        - Location and quantities

Summary for 05-21-2014 0830 call

SRNL

Revised: 5/20/14

Arrival	Sample	Radioanalytical	GCMS	IC	ICPES	ICPMS	Tic/Toc	XRF	XRD	SEM
Date	Description	(Nuclides)	(Organics)	(Organics)	(Metals)	(Metals and Nuclides)	(Carbon)	(Elementals)	(Elementals & Molecular)	(Chemical Composition)
5/8/2014	RCO Smears	NTR	5/20/2014	5/17/2014	5/17/2014	5/20/2014	5/17/2014	X	X	X
	RCO Masselins									
	Fixed Air Sampler(FAS)	5/16/2014	5/20/2014	5/20/2014	5/17/2014	5/16/2014	5/20/2014	5/16/2014	5/20/2014	5/20/2014
	CAM Air Filters (#2,7,11)	5/18/2014	5/20/2014	5/20/2014	5/19/2014	5/18/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014
5/15/2014	RCO Masselins	5/20/2014								

Notes:

In Process		
Reviewing Data		
Reported - Prelim #s		(by email)
Reported - Final		(Report Doc)
NTR	Need to Repot Prelim Data	
Date	Completed/Expected Completion	

LANL update

WCS

- Visual Inspections
- Thermography
- The plan is to begin loading SWBs into MCCs today.

WIPP

- Entry made Monday 05-19-2014
    - Video and pictures show additional damage from heat to plastics and cardboard
- Next Entry planned for Thursday 05-22-2014
- Information requests from NMED
- Involvement of additional National Labs to assist in the investigation, inaugural coordination call was yesterday.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT

IN THE MATTER OF:

UNITED STATES DEPARTMENT OF ENERGY AND NUCLEAR WASTE PARTNERSHIP LLC	)	**ADMINISTRATIVE ORDER UNDER THE NEW MEXICO HAZARDOUS WASTE ACT § 74-4-13**
WASTE ISOLATION PILOT PLANT EDDY COUNTY, NEW MEXICO	)	

ADMINISTRATIVE ORDER

Pursuant to NMSA 1978, Section 74-4-13(A) of the Hazardous Waste Act ("HWA"), the New Mexico Environment Department ("NMED") hereby orders the Department of Energy ("DOE"), and Nuclear Waste Partnership, LLC ("NWP"; collectively, with DOE, the "Permittees"), to comply with the terms and conditions of this Administrative Order ("Order") relating to the Waste Isolation Pilot Plant ("WIPP" or "Facility").

BACKGROUND

1. Pursuant to the Department of Environment Act, NMSA 1978, Sections 9-7A-1 to -15, the NMED is an agency of the executive branch within the government of the State of New Mexico.

2. The NMED, through the Hazardous Waste Bureau of the Environmental Health Division, is charged with administration and enforcement of the HWA and the Hazardous Waste Management Regulations, 20.4.1 NMAC ("HWMR").

3. The Permittees comprise a "person" within the meaning of Section 74-4-3(M) of the HWA.

4. The DOE and NWP are co-Permittees under a Treatment, Storage, and Disposal Facility ("TSDF") Permit for WIPP, EPA I.D. NUMBER NM4890139088-TSDF ("Permit").

5. The Permittees are engaged in the management, storage and disposal of defense transuranic ("TRU") mixed waste. TRU mixed waste is subject to the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. § 6901 to 6992k.

6. The U.S. Environmental Protection Agency ("EPA") has granted the State of New Mexico delegated authority to implement RCRA within the state. The HWMR incorporate portions of 40 CFR 260 through 40 CFR 270, 40 CFR 279 and related federal regulations by reference.

7. The DOE is a federal agency; NWP is a for-profit corporation conducting business in New Mexico.

8. On February 5, 2014, the Permittees reported a vehicle fire in the WIPP underground. The WIPP underground was temporarily closed for normal operations and waste shipments from generator sites were suspended.

9. On February 15, 2014, the NMED was informed by the Permittees of a radiological incident that occurred within the underground repository at approximately 11:30 PM on February 14, 2014. The facility was still in "stand down" due to the February 5, 2014 fire.

10. On February 19, 2014, the NMED became aware that an off-site particulate air sample collected and analyzed by the Carlsbad Environmental Monitoring and Research Center ("CEMRC") indicated an airborne release of radioactive material.

11. On February 28, 2014, the NMED issued an Administrative Order dated February 27, 2014, regarding above ground compliance issues.

12. On April 11, 2014, the NMED was notified by the Permittees that the RCRA Contingency Plan described in Permit Attachment D had been invoked.

13. On May 2, 2014, the DOE Carlsbad Field Office published an Occurrence Reporting and Processing System Operating Experience Report Notification, titled *Potential for the presence of untreated nitrate waste salts in TRU waste packages* ("ORPS Report").

14. The ORPS Report indicated that experts, after review of evidence from re-entries into the WIPP underground, concluded that a possible cause of the condition was the presence of untreated nitrate salts in waste packages, and it was postulated that an energetic chemical reaction could have resulted from an untreated nitrate compound coming into contact with cellulosic material present in the packages. Certain nitrate salt bearing waste containers were present in the affected area in Panel 7, Room 7, which contained an americium/plutonium ratio similar to the isotopic ratios seen on environmental filter samples taken during the release event, including containers generated at the Los Alamos National Laboratory ("LANL").

15. Once notified that a nitrate salt bearing waste container from LANL may have been the source of the release, NMED verbally required DOE to take immediate action to isolate and secure all such nitrate salt bearing waste containers at WIPP and LANL.

16. On May 12, 2014, the NMED issued an Administrative Order addressing permit-required actions in the underground that could not be performed and modifications to requirements under the February 27, 2014 Administrative Order.

17. On May 16, 2014, following review of photographs obtained during the May 15, 2014 re-entry into the WIPP underground, NMED was notified by DOE that one of two suspect LANL

nitrate salt bearing waste containers emplaced in the underground, at Panel 7, Room 7, was breached, and was a cause of the February 15, 2014 release in the WIPP underground. The photographs from the May 15, 2014 re-entry indicate that the lid of a LANL nitrate salt bearing waste container had opened and there was heat damage to the surrounding area.

18. The suspect nitrate salt bearing waste containers are described in the same acceptable knowledge summary report CCP-AK-LANL-006, which contains four waste streams: LA-MHD01.001; LA-CIN01.001; LA-MIN02-V.001; and, LA-MIN04-S.001. The DOE indicated that two of the four waste streams contain varying amounts of nitrate salts, LA-MIN02-V.001 and LA-MHD01.001. LA-MIN02-V.001 is a mixed absorbed waste stream that is largely comprised of transuranic ("TRU") waste such as liquids and solids absorbed or mixed with absorbents. The two suspect LANL nitrate salt bearing waste containers are part of the LA-MIN02-V.001 waste stream, which has been identified by DOE as the primary waste stream that contains nitrate salts absorbed with cellulose based kitty litter ("Litter"). All the LA-MIN02-V.001 containers at LANL contain nitrate salts mixed with the Litter.

19. The most recent numbers provided to NMED by the Permittees indicate that there are 368 containers that contain similar nitrate salt bearing waste emplaced in the WIPP underground: 313 in Panel 6; and, 55 in Panel 7, Room 7.

20. Based on the evidence provided to NMED, the current handling, storage and disposal of the hazardous nitrate salt bearing waste containers in the WIPP underground may present an imminent and substantial endangerment to health or the environment.

21. This Order addresses closure of certain panels and rooms containing nitrate salt bearing waste containers in the WIPP underground.

ORDER

22. It is hereby ORDERED that to ensure continued protection of human health and the environment, the Permittees shall submit to NMED, by 2:00 PM MST on May 30, 2014, a ***WIPP Nitrate Salt Bearing Waste Container Isolation Plan***.

a) The WIPP Nitrate Salt Bearing Waste Container Isolation Plan shall contain the following:

i. A detailed proposal for the expedited closure of Panel 6, so that a potential release from any nitrate salt bearing waste containers in Panel 6 does not pose a threat to human health or the environment;

ii. A schedule for the expedited closure of Panel 6;

iii. A detailed proposal for the expedited closure of Panel 7, Room 7, so that a potential release from any nitrate salt bearing waste containers in Panel 7, Room 7, does not pose a threat to human health or the environment;

iv. A schedule for the expedited closure of Panel 7, Room 7, that will take into account all factors related to the ongoing recovery efforts being undertaken at WIPP and be implemented following completion of the investigation in the underground related to the cause of the release in Panel 7, Room 7; and

v. The volumetric flow rate for ventilation in the WIPP underground, a description of how the volumetric flow rate is protective of human health and the environment, and a description of how volumetric flow rate will be achieved while the WIPP Nitrate Salt Bearing Waste Container Isolation Plan is implemented.

b) Upon receipt of the WIPP Nitrate Salt Bearing Waste Container Isolation Plan, NMED will either: approve the WIPP Nitrate Salt Bearing Waste Container Isolation Plan; approve with modification; or, respond to the Permittees with changes that must be incorporated into the WIPP Nitrate Salt Bearing Waste Container Isolation Plan and resubmitted to NMED in a timeframe indicated by NMED.

c) Upon NMED approval of the WIPP Nitrate Salt Bearing Waste Container Isolation Plan, the Permittees shall immediately begin implementation of the WIPP Nitrate Salt Bearing Waste Container Isolation Plan.

23. The Permittees shall provide daily updates on the implementation of the WIPP Nitrate Salt Bearing Waste Container Isolation Plan during pre-scheduled technical calls with NMED and memorialize such updates in daily written submissions to NMED until NMED indicates otherwise.

24. All submissions to NMED related to this Order shall be posted in the Information Repository within five (5) working days of submission to NMED.

25. The requirements in this Order shall not relieve the Permittees of any requirements under their current Permit, including those for panel closure, or as otherwise provided by law.

26. The requirements in this Order do not, in any way, waive any legal rights vested in NMED to take enforcement action against the Permittees in relation to panel closure, or otherwise.

27. The Permittees shall submit all required information to NMED via electronic mail and to the following addresses:

Bureau Chief
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87508-6303

and

Division Director
Environmental Health Division
Harold Runnels Building
1190 Saint Francis Drive, PO Box 5469
Santa Fe, New Mexico 87502-5469

It is so ORDERED.

5/20/2014

RYAN FLYNN
SECRETARY OF ENVIRONMENT **DATE**

CERTIFICATE OF SERVICE

I hereby certify that on this 20th day of May, 2014, a copy of the foregoing Administrative Order was mailed via certified mail return receipt requested to:

Jose Franco, Manager
Carlsbad Field Office
Department of Energy
P.O. Box 3090
Carlsbad, New Mexico 88221-3090

Robert McQuinn, Project Manager
Nuclear Waste Partnership LLC
P.O. Box 2078
Carlsbad, New Mexico 88221-2078

George W. Hellstrom, Legal Counsel
U.S. Department of Energy
Carlsbad Field Office
P.O. Box 3090
Carlsbad, New Mexico 88221-3090

Dennis N. Cook, General Counsel
Nuclear Waste Partnership LLC
P.O. Box 2078
Carlsbad, New Mexico 88221-2078

Jeffrey M. Kendall, General Counsel

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
WIPP Far Field (WFF)*	AL-WFF-20140212-1.1	02/15/2014	36	---	**4.88E+01**	Below MDC	**3.67E+00**	51.44	**1.58E-02**	N/A	**1.19E-03**
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/18/2014	2.4	---	**2.70E-01**	Below MDC	Below MDC	*242.65*	**1.85E-05**	N/A	N/A
WIPP East (WEE)*	AL-WEE-20140212-1.1	02/17/2014	7.29/4.4	---	**5.73E-01**	Below MDC	Below MDC	208.89	**4.57E-05**	N/A	N/A
WIPP South (WSS)*	AL-WSS-20140212-1.1	02/17/2014	7.47/3.7	---	**1.41E-01**	Below MDC	Below MDC	207.82	**1.13E-05**	N/A	N/A
Mills Ranch (MLR)*	AL-MLR-20140212-1.1	02/18/2014	2.7	---	Below MDC	Below MDC	Below MDC	269.12	N/A	N/A	N/A
Smith Ranch (SMR)*	AL-SMR-20140212-1.1	02/18/2014	4.2	---	**2.44E-01**	Below MDC	Below MDC	270.95	**1.50E-05**	N/A	N/A
Carlsbad (CBD)*	AL-CBD-20140212-1.1	02/18/2014	1.6	---	Below MDC	Below MDC	Below MDC	263.07	N/A	N/A	N/A
Southeast Control (SEC)*	AL-SEC-20140212-1.2	02/18/2014	1.3	---	Below MDC	Below MDC	Below MDC	266.42	N/A	N/A	N/A
Southeast Control (SEC) co-located sample*	AL-SEC-20140212-2.2	02/18/2014	1.5	---	Below MDC	Below MDC	Below MDC	271.13	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/26/2014	---	1.89	Below MDC	Below MDC	Below MDC	653.09	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140219-1.1	02/26/2014	---	2.48	Below MDC	Below MDC	Below MDC	738.49	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	730.49	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140219-1.1	02/26/2014	---	2.57	Below MDC	Below MDC	Below MDC	675.95	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	634.00	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140219-1.1	02/26/2014	---	1.12	Below MDC	Below MDC	Below MDC	663.97	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140219-1.2	02/26/2014	---	2.66	Below MDC	Below MDC	Below MDC	675.60	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140219-2.2	02/26/2014	---	1.38	Below MDC	Below MDC	Below MDC	642.96	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140226-1.1	03/04/2014	---	4.21	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140226-1.1	03/04/2014	---	4.90	Below MDC	Below MDC	Below MDC	478.96	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140226-1.1	03/04/2014	---	3.26	Below MDC	Below MDC	Below MDC	474.43	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	476.20	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140226-1.1	03/04/2014	---	7.13	Below MDC	Below MDC	Below MDC	470.20	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	482.31	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140226-1.2	03/04/2014	---	4.72	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140226-2.2	03/04/2014	---	6.70	Below MDC	Below MDC	Below MDC	481.39	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	549.12	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	559.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.12	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	543.88	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	561.30	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140304-1.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	557.78	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Southeast Control (SEC) co-located sample	AL-SEC-20140304-2.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	552.09	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	447.76	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	535.87	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	538.77	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	521.72	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	563.14	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.45	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	581.65	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	496.70	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140311-1.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	545.09	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140311-2.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	522.38	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	569.51	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.26	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	560.11	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	551.04	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	583.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	598.84	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	595.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.38	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.55	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140318-1.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	586.87	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140318-2.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	563.63	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	591.75	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	585.15	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	582.60	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	554.61	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
WIPP East (WEE)	AL-WEE-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	542.58	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	518.92	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.42	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	528.06	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	507.26	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	536.26	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	539.09	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	545.42	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.10	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	531.54	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	562.46	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	574.86	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	581.57	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	559.08	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	575.98	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	586.62	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	584.84	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	571.20	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.06	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	568.60	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	570.74	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Mills Ranch (MLR)	AL-MLR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.62	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	562.71	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	558.63	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	569.36	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	575.62	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	546.29	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	573.83	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.78	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.94	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	397.41	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	406.71	N/A	N/A	N/A
Hobbs (HBS)§	AL-HBS-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	403.69	N/A	N/A	N/A
Loving (LVG)§	AL-LVG-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	426.89	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.76	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.76	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	557.36	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	543.32	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	539.80	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.16	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.84	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	554.07	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	553.51	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	565.83	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	562.97	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.39	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.87	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	570.52	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Hobbs (HBS)§	AL-HBS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	556.26	N/A	N/A	N/A
Loving (LVG)§	AL-LVG-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	545.64	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	562.80	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.83	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.86	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	553.41	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	561.97	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	563.91	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	585.19	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.49	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	578.00	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	565.16	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	575.54	N/A	N/A	N/A
Hobbs (HBS)§	AL-HBS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
Loving (LVG)§	AL-LVG-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.76	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140429-1.2	05/06/2014	---	---				529.31			
WIPP Far Field (WFF) co-located	AL-WFF-20140429-2.2	05/06/2014	---	---				558.25			
WIPP East (WEE)	AL-WEE-20140429-1.1	05/06/2014	---	---				545.23			
WIPP South (WSS)	AL-WSS-20140429-1.1	05/06/2014	---	---				550.04			
Mills Ranch (MLR)	AL-MLR-20140429-1.1	05/06/2014	---	---				547.16			
Carlsbad (CBD)	AL-CBD-20140429-1.2	05/06/2014	---	---				545.18			
Carlsbad (CBD) co-located sample	AL-CBD-20140429-2.2	05/06/2014	---	---				553.74			
Smith Ranch (SMR)	AL-SMR-20140429-1.1	05/06/2014	---	---				562.01			
Southeast Control (SEC)	AL-SEC-20140429-1.1	05/06/2014	---	---				551.54			
Meteorology Tower Building (MET)†	AL-MET-20140429-1.1	05/06/2014	---	---				531.22			

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Salt Hoist (SLT)†	AL-SLT-20140429-1.1	05/06/2014	---	---				552.79			
Southeast of Training Building (STB)†	AL-STB-20140429-1.1	05/06/2014	---	---				538.36			
Guard and Security Building (GSB)‡	AL-GSB-20140429-1.1	05/06/2014	---	---				547.15			
Artesia (ART)§	AL-ART-20140429-1.1	05/06/2014	---	---				556.59			
Eunice (EUN)§	AL-EUN-20140429-1.1	05/06/2014	---	---				130.92			
Hobbs (HBS)§	AL-HBS-20140429-1.1	05/06/2014	---	---				542.32			
Loving (LVG)§	AL-LVG-20140429-1.1	05/06/2014	---	---				563.69			
Eunice (EUN)§	EE-EUN-20140429-1.1	05/07/2014	---	---				67.02			
WIPP Far Field (WFF)	EE-WFF-20140506-1.2	05/13/2014	---	---				572.89			
WIPP Far Field (WFF) co-located	EE-WFF-20140506-2.2	05/13/2014	---	---				584.12			
WIPP East (WEE)	EE-WEE-20140506-1.2	05/13/2014	---	---				545.56			
WIPP East (WEE) co-located	EE-WEE-20140506-2.2	05/13/2014	---	---				589.08			
WIPP South (WSS)	EE-WSS-20140506-1.1	05/13/2014	---	---				602.53			
Mills Ranch (MLR)	EE-MLR-20140506-1.1	05/13/2014	---	---				597.79			
Carlsbad (CBD)	EE-CBD-20140506-1.1	05/13/2014	---	---				561.97			
Smith Ranch (SMR)	EE-SMR-20140506-1.1	05/13/2014	---	---				592.87			
Southeast Control (SEC)	EE-SEC-20140506-1.1	05/13/2014	---	---				584.44			
Meteorology Tower Building (MET)†	EE-MET-20140506-1.1	05/13/2014	---	---				595.11			
Salt Hoist (SLT)†	EE-SLT-20140506-1.1	05/13/2014	---	---				607.24			
Southeast of Training Building (STB)†	EE-STB-20140506-1.1	05/13/2014	---	---				603.57			
Guard and Security Building (GSB)‡	EE-GSB-20140506-1.1	05/13/2014	---	---				630.33			
Artesia (ART)§	EE-ART-20140506-1.1	05/13/2014	---	---				581.94			
Eunice (EUN)§	EE-EUN-20140507-1.1	05/13/2014	---	---				465.17			
Hobbs (HBS)§	EE-HBS-20140506-1.1	05/13/2014	---	---				576.92			
Loving (LVG)§	EE-LVG-20140506-1.1	05/13/2014	---	---				586.21			

* Filter volumes based on an adjusted filter installation date. This date was changed from the actual filter installation date to the date of the release which occurred at 23:30 hours on 2/14/14.

† This sampling location was initiated on March 4, 2014.

‡ This sampling location was initiated on March 25, 2014.

Environmental Monitoring & Hydrology Airborne Particulates Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m^3)	WIPP Labs Radiochemistry		
					Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m^3)	Pu-238 (Bq/m^3)	Pu-239/240 (Bq/m^3)

[§] This sampling location was initiated on April 10, 2014.

Note: Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

MDC Am-241 (dpm/sample): 1.89E-02 to 5.05E-01

MDC Pu-238 (dpm/sample): 1.89E-02 to 1.57E+01

MDC Pu-239/240 (dpm/sample): 1.70E-02 to 5.94E-01

Environmental Monitoring & Hydrology Surface Water Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)
SWIC Evaporation Basin A	WS-EBA-20140219-1.2	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Evaporation Basin A	WS-EBA-20140219-2.2	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Pile Evaporation Pond	WS-SPE-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin I	WS-EB1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin II	WS-EB2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140302-1.2	3/2/2014	**9.69E-01**	Below MDC	**7.48E-02**
Sample of Opportunity (Dupe)*	WS-SOO-20140302-2.2	3/2/2014	**3.93E-01**	Below MDC	Below MDC
Blank	WS-BLK-20140302-1.1	3/2/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Fresh Water Tank	WS-FWT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	WS-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	WS-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	WS-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	WS-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley Lake	WS-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	WS-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Coyote Well	WS-COW-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-1.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe)†	WS-SOO-20140316-2.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-3.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-4.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Blank)	WS-SOO-20140316-5.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140326-1.2	3/26/2014	**1.60E-01**	Below MDC	Below MDC
Sample of Opportunity (Dupe)*	WS-SOO-20140326-2.2	3/26/2014	**9.07E-02**	Below MDC	Below MDC
Blank	WS-BLK-20140326-1.1	3/26/2014	Below MDC	Below MDC	Below MDC
Sewage Lagoons	WS-SWL-20140416-1.1	4/16/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-1.2	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-2.2	4/23/2014	Below MDC	Below MDC	Below MDC
Evaporation Pond A	WS-EBA-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC

* These samples were collected during a rain event from various locations within the Property Protection Area. Highest concentration is about 3% of the EPA drinking water standard for alpha radioactivity.

† These samples were collected during a rain event from various locations within the Property Protection Area.

Note: Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

MDC Am-241 (dpm/L): 4.53E-02 to 7.78E-02

MDC Pu-238 (dpm/L): 3.30E-03 to 6.69E-02

MDC Pu-239/240 (dpm/L): 3.01E-02 to 5.92E-02

Environmental Monitoring & Hydrology Sediment Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Red Tank	SB-RED-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Bottom of the Hill Tank	SB-BHT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Noya Tank	SB-NOY-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Lost Tank	SB-LST-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	SB-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	SB-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Poker Trap	SB-PKT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Indian Tank	SB-IND-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley	SB-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	SB-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC

Note: Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

MDC Am-241 (dpm/g): 3.11E-02 to 4.42E-02

MDC Pu-238 (dpm/g): 1.63E-02 to 3.26E-02

MDC Pu-239/240 (dpm/g): 3.12E-02 to 3.66E-02

Environmental Monitoring & Hydrology Biota Sampling - Fauna

5/20/2014 - 09:00 AM

Tissue Type/Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Biotic Quail/WIPP East	BQ-WEE-20140325-1.1	3/25/2014	Below MDC	Below MDC	Below MDC

Note: Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDCs are:

MDC Am-241 (dpm/g): 2.41E-02

MDC Pu-238 (dpm/g): 1.68E-02

MDC Pu-239/240 (dpm/g): 8.63E-03

Environmental Monitoring & Hydrology Biota Sampling - Vegetation

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field	BV-WFF-20140221-1.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field (Duplicate)	BV-WFF-20140221-2.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP East	BV-WEE-20140221-1.1	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP South	BV-WSS-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Smith Ranch	BV-SMR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Mills Ranch	BV-MLR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Southeast Control	BV-SEC-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
GPS Location 1*	BV-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2*	BV-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3*	BV-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4*	BV-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5*	BV-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6*	BV-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7*	BV-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8*	BV-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9*	BV-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10*	BV-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11*	BV-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12*	BV-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13*	BV-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14*	BV-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15*	BV-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 16*	BV-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17*	BV-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18*	BV-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19*	BV-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20*	BV-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21*	BV-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22*	BV-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23*	BV-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24*	BV-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25*	BV-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26*	BV-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27*	BV-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28*	BV-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29*	BV-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (Duplicate)*	BV-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (Duplicate)*	BV-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (Duplicate)*	BV-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC

* These sampling sites are being accounted for via GPS location identifiers and field stakes.

Note: Vegetation samples were collected adjacent to air sampling locations. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

MDC Am-241 (dpm/g): 2.32E-02 to 3.38E-02

MDC Pu-238 (dpm/g): 1.68E-02 to 2.17E-02

MDC Pu-239/240 (dpm/g): 1.04E-02 to 2.88E-02

Environmental Monitoring & Hydrology Soil Sampling

5/20/2014 - 09:00 AM

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)*	SS-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	**4.06E-02**
Mills Ranch Intermediate Sample (2-5 cm)	SI-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Deep Sample (5-10 cm)	SD-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Surface Sample (0-2 cm)	SS-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Intermediate Sample (2-5 cm)	SI-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Deep Sample (5-10 cm)	SD-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 1 (0-2 cm)†	SS-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2 (0-2 cm)†	SS-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3 (0-2 cm)†	SS-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4 (0-2 cm)†	SS-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5 (0-2 cm)†	SS-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm)†	SS-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7 (0-2 cm)†	SS-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8 (0-2 cm)†	SS-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9 (0-2 cm)†	SS-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm)†	SS-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11 (0-2 cm)†	SS-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12 (0-2 cm)†	SS-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13 (0-2 cm)†	SS-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14 (0-2 cm)†	SS-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15 (0-2 cm)†	SS-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC

Environmental Monitoring & Hydrology Soil Sampling

5/20/2014 - 09:00 AM

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
GPS Location 16 (0-2 cm)†	SS-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17 (0-2 cm)†	SS-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm)†	SS-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19 (0-2 cm)†	SS-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20 (0-2 cm)†	SS-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21 (0-2 cm)†	SS-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22 (0-2 cm)†	SS-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23 (0-2 cm)†	SS-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24 (0-2 cm)†	SS-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25 (0-2 cm)†	SS-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26 (0-2 cm)†	SS-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27 (0-2 cm)†	SS-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28 (0-2 cm)†	SS-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29 (0-2 cm)†	SS-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm) (Duplicate)†	SS-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm) (Duplicate)†	SS-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm) (Duplicate)†	SS-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)	SS-MLR-20140515-1.2	5/15/2014			
Mills Ranch Surface Sample (0-2 cm) (Duplicate)	SS-MLR-20140515-2.2	5/15/2014			

* The detection in this sample is within the range of historical results for this location. Value updated as a result of reanalysis by the analytical laboratory.

† These sampling sites are being accounted for via GPS location identifiers and field stakes.

Note: Radionuclides are considered detected in an environmental sample if the measured concentration or activity is greater than the minimum detectable concentration (MDC) and greater than the total propagated uncertainty (TPU) at the 2 sigma (σ) TPU level. To show a non-detect "Below MDC" is used in the Table. The MDC is the lowest concentration measurement that can be detected by laboratory instrumentation; the TPU is an estimate of uncertainty in the measurement from all sources.

Minimum detectable concentration (MDC) ranges are:

MDC Am-241 (dpm/g): 2.62E-02 to 4.12E-02

MDC Pu-238 (dpm/g): 1.61E-02 to 2.71E-02

MDC Pu-239/240 (dpm/g): 3.17E-03 to 3.56E-02

Site Environmental Compliance Salt Pile Sampling

5/20/2014 - 09:00 AM

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
South Face of Salt Pile	WST-14-012	3/13/2014	Below MDC	Below MDC	Below MDC
East Face of Salt Pile	WST-14-013	3/13/2014	Below MDC	Below MDC	Below MDC
West Face of Salt Pile	WST-14-014	3/13/2014	Below MDC	Below MDC	Below MDC
South Ridge of Salt Pile, South of Salt Pile	WST-14-015	3/13/2014	Below MDC	Below MDC	Below MDC
North Ridge of Salt Pile, North of Salt Pile	WST-14-016	3/13/2014	Below MDC	Below MDC	Below MDC
South Face of Salt Pile (Duplicate)	WST-14-017	3/13/2014	Below MDC	Below MDC	Below MDC

Samples collected at the Magnum Minerals salt pile per procedure WP 02-EC1001.

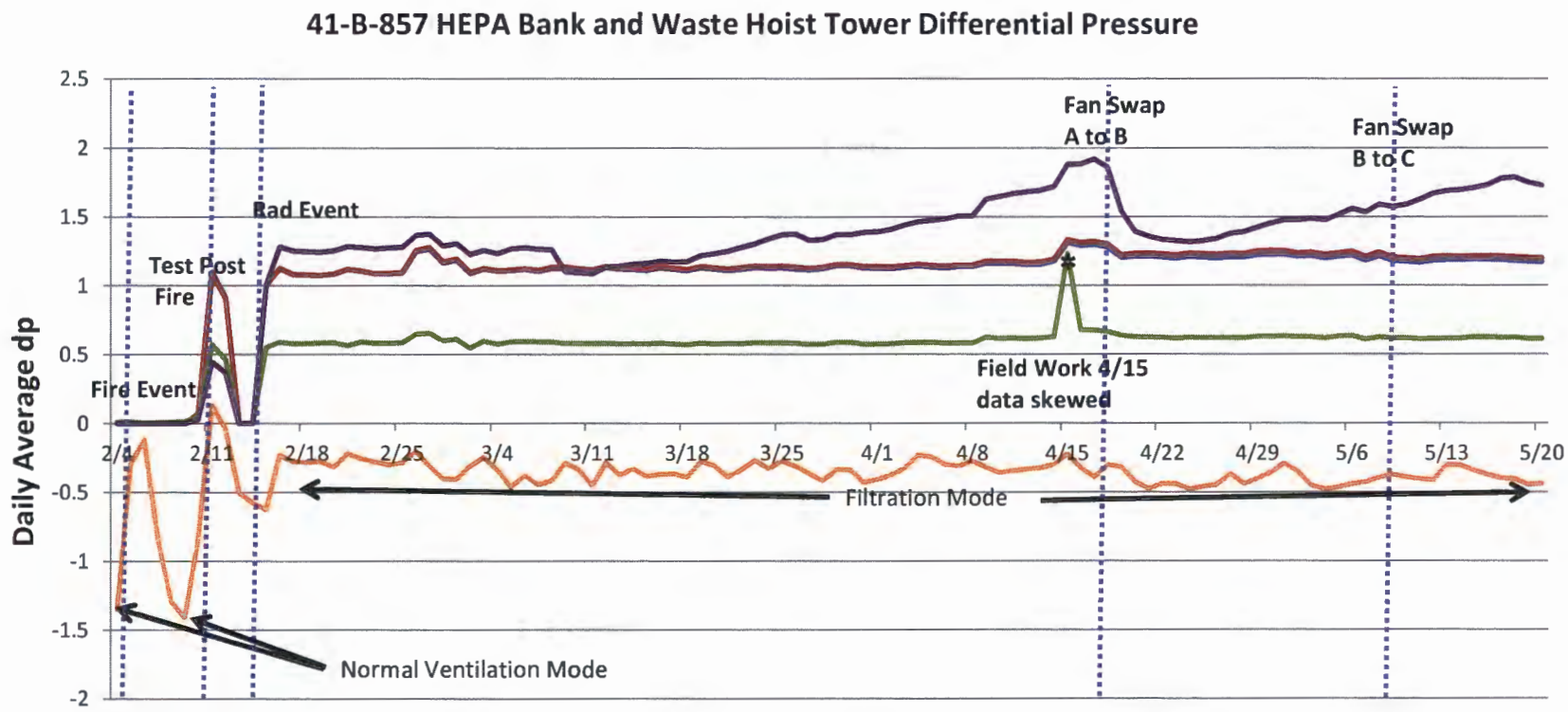
Note: Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

MDC Am-241 (dpm/g): 4.17E-02 to 5.03E-02

MDC Pu-238 (dpm/g): 2.84E-02 to 4.38E-02

MDC Pu-239/240 (dpm/g): 2.18E-02 to 2.43E-02



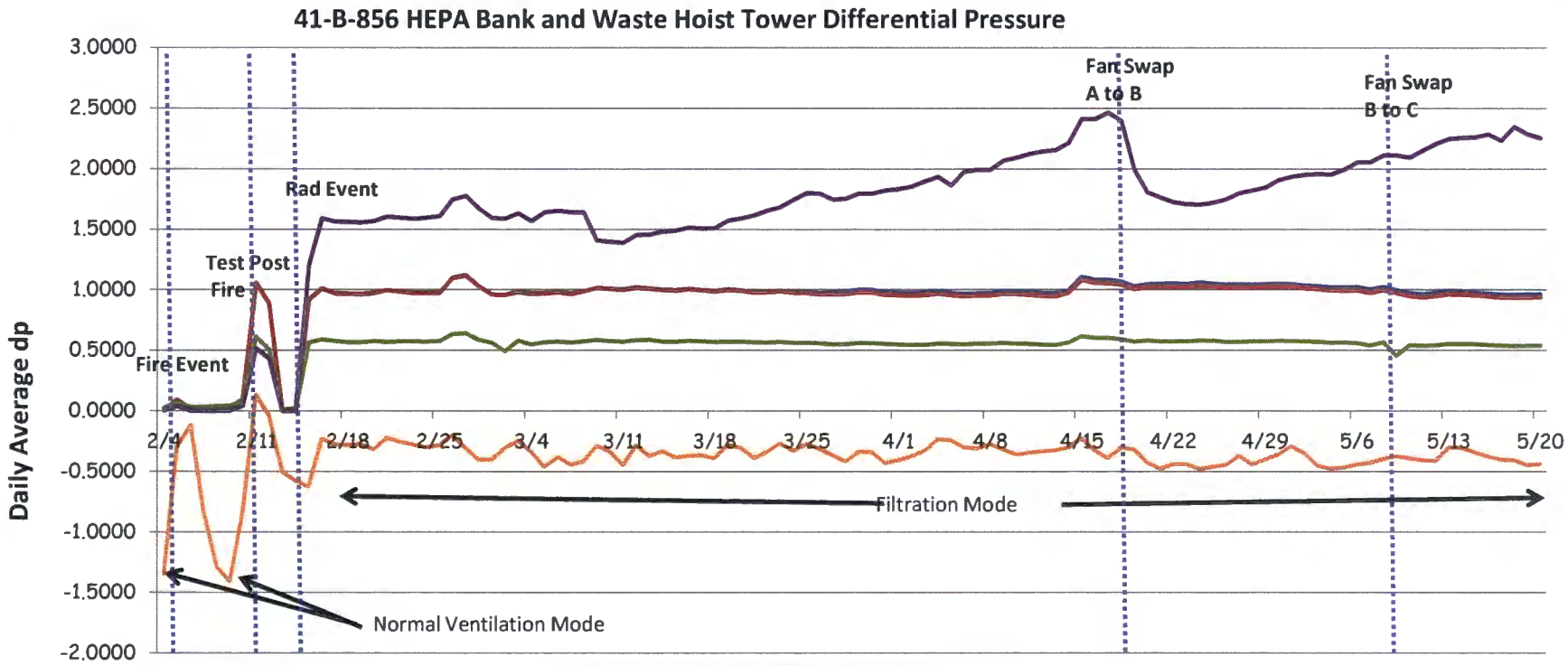
Prior to 2/5/2014 (2/3 @ 0200-0215)	
857	Mod 0.45
857	High 0.75
857	HEPA 1.52
857	HEPA 1.45

*** Fire Event Waste Tower dp Details**

During the Fire Event positive dp was seen on 2/5 and 2/6. Overall the dp was negative for the daily average.

2/5 Postive dp (Avg) + 0.308 (Duration 13 hrs)

2/6 Positive dp (AVg) + 0.200 (Duration 14 hrs)



Prior to 2/5/2014 (2/3 @ 0200-0215)

856 Mod	0.47
856 High	0.75
856 HEPA	1.54
856 HEPA	1.45

*** Fire Event Waste Tower dp Details**

During the Fire Event positive dp was seen on 2/5 and 2/6. Overall the dp was negative for the daily average.

2/5 Postive dp (Avg) + 0.308 (Duration 13 hrs)

2/6 Positive dp (AVg) + 0.200 (Duration 14 hrs)

To: John Young
From: Tom White
05/14/14

The one sigma percent uncertainty is 10%
System 2
IC RESULTS

The results of the following samples were analyzed with a Dionex instrument and the data is recorded in the ELN

	Fluoride	Formate	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	Oxalate	Cust ID
SPL ID	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	
300311087	<275	<275	110	<55	<55	<55	330	275	<55	YOUNG-tc 65778-RPD SMEARS/H20 LEACH
300311088	<260	<260	5820	<52	<52	<52	<52	520	<52	YOUNG-tc 65778-RPD SMEARS/H20 LEACH
300311089	<215	<215	58500	<43	<43	<43	<43	1550	<43	YOUNG-tc 65778-RPD SMEARS/H20 LEACH

To: John Young
From: Tom White
05/16/14

The one sigma percent uncertainty is 10%
System 2
IC RESULTS

The results of the following samples were analyzed with a Dionex instrument and the data is recorded in the ELN

	Fluoride	Formate	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	Oxalate	Cust ID
SPL ID	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	µg/g of wipe	
300311131	10900	5440	1810	<1810	<1810	<1810	<1810	<1810	<1810	YOUNG-tc 65784-section c of wipp FAS sample
300311132	5860	5860	21500	<977	<977	2930	<977	14700	1950	YOUNG-tc 65784-section c of wipp FAS sample

ICP-OES Results

Description: RPD SMEARS FOR DISSOLUTION
Travel Copy: 65779
Instrument: Leeman Prodigy ICP-ES
Reviewer: John Young
Comments:
2x on digestions with factor by mass of swipe, 20x for Na and Mg

Method Detection Limit (MDL) = Instrument Detection Limit (IDL) x Dilution Factor.
Uncertainty is the RMS of the method uncertainty and the sample uncertainty.

USER_SAMPLEID:	ADS GENERATED BLANK		WIPE #3 (300311071)		WIPE #5 (300311073)	
SAMPLE_ID:	300311090		300311091		300311092	
UNITS:	ug/g		ug/g		ug/g	
Element						
Ag	< 1.42	(N/A %RSD)	< 1.33	(N/A %RSD)	< 1.41	(N/A %RSD)
Al	31	(11.3 %RSD)	57.8	(10.5 %RSD)	27.9	(12.8 %RSD)
B	< 20.5	(N/A %RSD)	20.1	(10.6 %RSD)	< 20.3	(N/A %RSD)
Ba	0.937	(97.7 %RSD)	1.04	(28.9 %RSD)	0.86	(4410 %RSD)
Be	< 0.105	(N/A %RSD)	< 0.0984	(N/A %RSD)	< 0.104	(N/A %RSD)
Ca	476	(10 %RSD)	515	(10 %RSD)	313	(10 %RSD)
Cd	< 1.48	(N/A %RSD)	< 1.38	(N/A %RSD)	< 1.46	(N/A %RSD)
Ce	< 11.9	(N/A %RSD)	< 11.1	(N/A %RSD)	< 11.8	(N/A %RSD)
Co	< 2.52	(N/A %RSD)	< 2.35	(N/A %RSD)	< 2.49	(N/A %RSD)
Cr	< 1.42	(N/A %RSD)	2.09	(11.8 %RSD)	3.51	(11.4 %RSD)
Cu	< 2.9	(N/A %RSD)	< 2.71	(N/A %RSD)	< 2.86	(N/A %RSD)
Fe	35.9	(10 %RSD)	94.6	(10 %RSD)	70	(10 %RSD)
Gd	< 6.03	(N/A %RSD)	< 5.63	(N/A %RSD)	< 5.95	(N/A %RSD)
K	< 54.8	(N/A %RSD)	153	(14.4 %RSD)	< 54.1	(N/A %RSD)
La	< 1.5	(N/A %RSD)	< 1.4	(N/A %RSD)	< 1.48	(N/A %RSD)
Li	< 6.69	(N/A %RSD)	< 6.25	(N/A %RSD)	< 6.61	(N/A %RSD)
Mg	230	(10 %RSD)	17600	(10 %RSD)	6100	(10 %RSD)
Mn	1.88	(12.2 %RSD)	5.38	(10.3 %RSD)	2.78	(10.9 %RSD)
Mo	< 15.7	(N/A %RSD)	< 14.7	(N/A %RSD)	< 15.5	(N/A %RSD)
Na	358	(10.2 %RSD)	16100	(10.3 %RSD)	1660	(13.8 %RSD)
Ni	< 12.6	(N/A %RSD)	< 11.8	(N/A %RSD)	< 12.4	(N/A %RSD)
P	187	(10.1 %RSD)	65.8	(11.1 %RSD)	65.6	(10.3 %RSD)
Pb	< 10.3	(N/A %RSD)	< 9.65	(N/A %RSD)	< 10.2	(N/A %RSD)
S	< 1580	(N/A %RSD)	< 1480	(N/A %RSD)	< 1560	(N/A %RSD)
Sb	< 30.5	(N/A %RSD)	< 28.5	(N/A %RSD)	< 30.1	(N/A %RSD)
Si	263	(10 %RSD)	348	(10 %RSD)	222	(10.1 %RSD)
Sn	< 107	(N/A %RSD)	< 99.8	(N/A %RSD)	< 106	(N/A %RSD)
Sr	< 15.7	(N/A %RSD)	< 14.7	(N/A %RSD)	< 15.5	(N/A %RSD)
Th	< 10.1	(N/A %RSD)	< 9.39	(N/A %RSD)	< 9.93	(N/A %RSD)
Ti	< 4.43	(N/A %RSD)	< 4.13	(N/A %RSD)	< 4.37	(N/A %RSD)
U	< 103	(N/A %RSD)	< 95.8	(N/A %RSD)	< 101	(N/A %RSD)
V	< 0.748	(N/A %RSD)	< 0.748	(N/A %RSD)	< 0.739	(N/A %RSD)
Zn	3.69	(13.3 %RSD)	9.04	(10.2 %RSD)	4.56	(10.3 %RSD)
Zr	< 23.1	(N/A %RSD)	< 21.6	(N/A %RSD)	< 22.8	(N/A %RSD)

tictoc results smears

Amy Ekechukwu to: John Young 05/14/2014 09:47 AM

Cc: Leigh Brown, Charles02 Coleman, Lynette Connelly, Clint Gregory, Sharon Gleaton

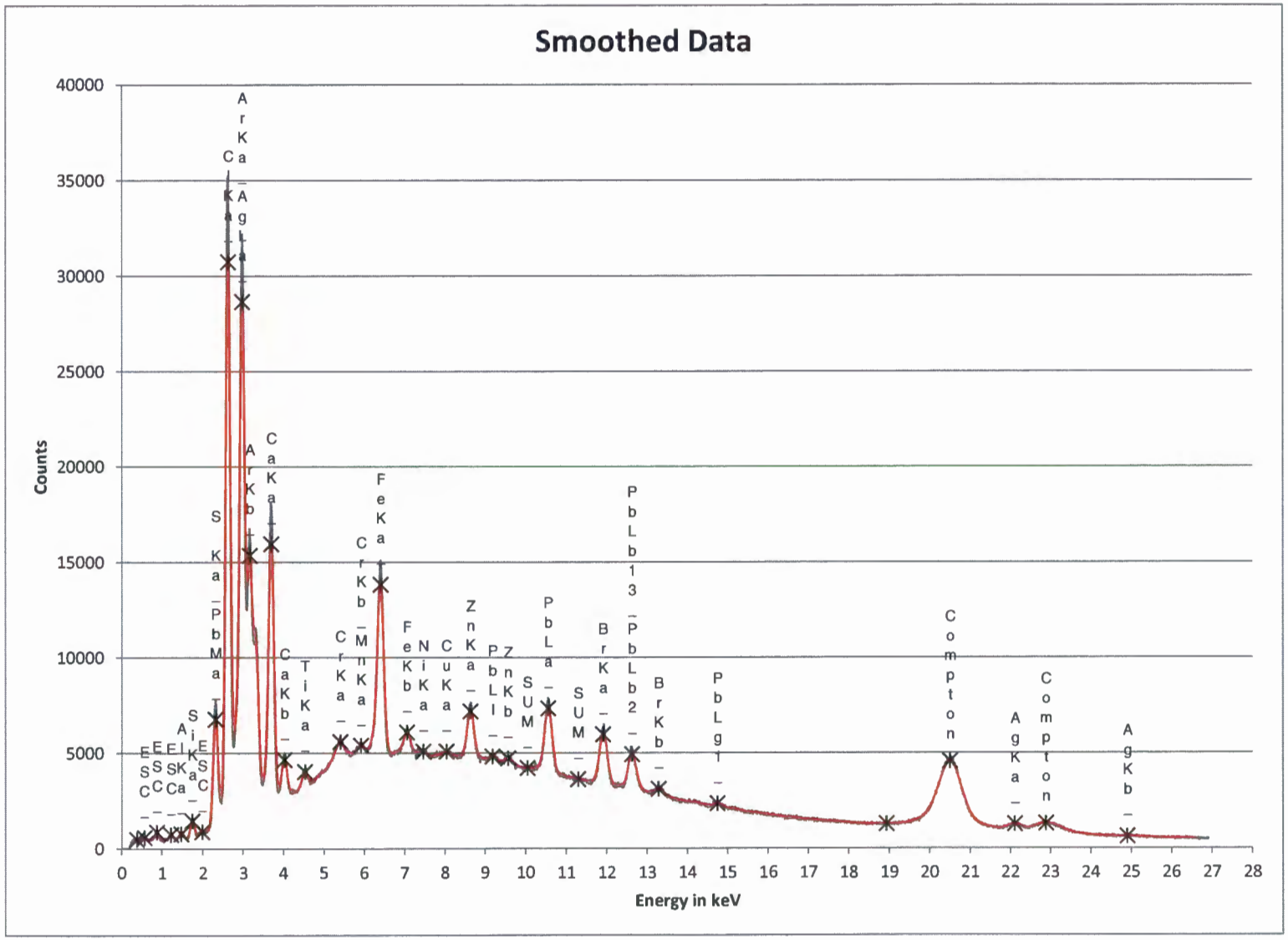
History: This message has been forwarded.

Note - The results are in ug/mL of the leachate since that was how Coleman suggested we report.

sample	tic (ug/mL)	toc (ug/mL)	tc (ug/mL)
311087	4.6	66.0	70.6
311088	7.72	100	108
311088	8.40	101	109

on lims

Amy A. Ekechukwu, Ph.D.
Senior Fellow Scientist
Savannah River National Laboratory
803-725-1236 (phone)
803-725-7243 #18814 (pager)
803-725-4704 (fax)


Smoothed Data
Counts
Energy in keV
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
ESC_Ca
ESC_Ca
ESC_Ca
Si_Ka
ESC_Ca
S_Ka_PbMa
Cl_Ka
Ar_Ka_Ag_La
Ar_Kb
Ca_Ka
Ca_Kb
Ti_Ka
Cr_Ka
Cr_Kb_Mn_Ka
Fe_Ka
Fe_Kb
Ni_Ka
Cu_Ka
Zn_Ka
Pb_Ll
Zn_Kb
SUM
Pb_La
SUM
Br_Ka
Pb_Lb13_Pb_Lb2
Br_Kb
Pb_Lg1
Compton
Ag_Ka
Compton
Ag_Kb

WIPP RECOVERY 1:00 DAILY MEETING ACTION LIST
Revised 5/20/2014

	A	B	C	D	E	F
1	**Date Identified**	**Requestor**	**Action**	**Responsible Person**	**Due Date**	**Status**
5	03/18/14	Trais Kliphuis	Will receipt of waste at WCS be in compliance with the RCRA permit. For example chain-of-custody issues.	Farok	Discuss tbd. See action item below	Farok described in detail the process that is planned to be used. NMED wants to understand how the program will be audited prior to shipping to WIPP.
6	03/19/14	Trais Kliphuis	Prepare a letter and fact sheet to address NMED regarding controls at WCS to ensure security of containers and compliance with permit.	Farok	3/28/2014	Draft has been shared with NMED. NMED needs additional time to review and provide comments.
20	03/20/14	Trais Kliphuis	Responses to EIS questions asked by NMED will be placed in writing and provided to NMED by next week.	Chavez/Kehrman	4/30 in response to NMED's comment discussed on 4/23.	**Re-opened.** A response has been posted for NMED review. NMED discussed comments with Chavez & Kehrman on 4/23. Response combined with item #25.
25	03/31/14	Trais Kliphuis	Was the leak at the dampers a source of the release? If not, what was the source?	Rick Chavez	4/30 in response to NMED's comments discussed on 4/23.	A response has been posted for NMED review. NMED discussed comments with Chavez & Kehrman on 4/23. Response combined with item #20.
43	04/22/14	Nick Stone	What are the plans for the waste that is currently in storage in the Waste Handling Building?	Kennedy/Chavez	tbd	The existing NMED Administrative Order addresses this through May 17, 2014.
44	04/23/14	Nick Stone	Are there any plans to view or otherwise gather data from the waste face on the exhaust side of Panel 7, Room 7?	Kennedy	tbd	Plans are to take swipes (5/3) using a pole from the slider at the end of Room 6 (pending CBFO Nuclear Safety review); no physical entry will be made into exhaust side.

	A	B	C	D	E	F
53	5/5/2014 and 5/14/2014	Steve Holmes	Are there any neutron sources in waste containers that have been placed nearby potential neutron getters that could create a heat source in Panel 7, Room 7? **NMED wants sampling results; looking for specific isotopes.**	Stroble/Pearcy	tbd	**Re-opened** (@ NMED [Holmes] request). There is no identified potential for neutron sources to have interacted with other materials in Panel 7 to create a heat source. CCP (Gulbransen) provided explanation of 3 neutron sources (spontaneous fission, mixed sources and α, n reaction) evaluated with a negative results. Verbal explanation will be provided in writing.
54	5/5/2014, 5/6/2014 and 5/19/2014	Trais Kliphuis	What is the status of investigating the LANL nitrate salt waste stream? Requested a written summary (like a progress report) of LANL activities.	R. Chavez/ Basabilvazo	tbd	CCP participated in 5/6 call. CCP (Pearcy) will provide a copy of LANL summary reports to Oba for posting. Additional questions NMED were submitted on 5/8 to CBFO and NWP. Draft written response submitted 5/14.
55	5/6/2014 and 5/7/2014	Coleman Smith / Nick Stone	Provide "spec sheets" for organic and inorganic absorbents that are inside of the LANL nitrate salt waste stream. Provide any additional analysis performed by LANL, if available.	Stroble/Pete Maggiore/LANL Chemist tbd	tbd	Information on the organic-based (*Swheat Scoop)* kitty liter used has been posted on ICLN. LANL Sr. Manager Nan Sauer, discussed experiments with the Swheat kitty liter and various nitrate mixtures in 5/13 call.
56	5/7/2014 and 5/8/2014	Trais Kliphuis	What information is LANL hoping to find by collecting additional headspace gas samples on containers with the MIN02 waste stream? What test method is LANL using?	Pete Maggiore/LANL Chemist tbd	tbd	Additional NMED question, What is the objective/purpose of doing the analysis on headspace gas? LANL Sr. Manager Nan Sauer, discussed results of headspace gas sampling in 5/13 call. Draft written response submitted 5/14.

WIPP RECOVERY 1:00 DAILY MEETING ACTION LIST
Revised 5/20/2014

	A	B	C	D	E	F
57	05/07/14	Kathy Economy	Requested isotopic data from Station B samples.	Oba	5/14/2014	Raw data has provided 5/9. A written DAC to curie conversion is needed. Request will enable comparison of CAP88 and CEMRC data with DOE data. Response should be posted 5/14.
60	05/07/14	Coleman Smith	Requested a written response as to why MIN02 is a problem and the other three waste streams with the same AK documentation are not perceived as a problem.	Stroble	tbd	A response has been posted for NMED review. NMED will provide comments to CBFO. An additional question, ***What is in the MDH01 waste stream?*** A heterogeneous debris waste. Draft written response submitted 5/14.
63	05/08/14	Trais Kliphuis	What part does potential movement during transportation play in this reaction?	Stroble		DOE is re-evaluating.
64	5/8/2014 and 5/19/2014	Trais Kliphuis	How many drums contain post-Jan 2013 kitty litter and where are they located?	Stroble		**Re-Opened**. NMED wants verification of these numbers. 432 Potential containers have nitrate salts. • 299 emplaced in WIPP • 73 stored at WCS • 60 at LANL
65	05/08/14	Ricardo Maestas	Was the same kitty liter used in any other waste streams?	Stroble		Under investigation.
66	05/13/14	Trais Kliphuis	NMED would like copies of LANL tests and reports done with kitty liter and nitrates.	Vincent	when available	LANL is working on an information package.
67	05/13/14	Trais Kliphuis	NMED would like copies of LANL procedures used to evaluate reactions between kitty liter and nitrates.	Vincent	when available	LANL is working on an information package.

WIPP RECOVERY 1:00 DAILY MEETING ACTION LIST
Revised 5/20/2014

	A	B	C	D	E	F
68	05/14/14	Coleman Smith	Explain the reasoning for separating MIN02 packages by 3 feet. Discussed at 0830, 5/14 call.	Stroble/Pearcy	5/16/2014	The question was along the lines of - if containers needed to be moved, would there be adequate space to separate the containers by 3 feet? Therefore, the spatial distance at WCS was evaluated and determined that there was adequate floor space to separate the containers by 3 feet. However, no repositioning of the containers has occurred.
69	05/16/14	Trais Kliphuis	Requested information of any "corrective actions" related to the AK Documentation WIPP Form.	Stroble?	tbd	Information is still being evaluated at this time.
70	05/19/14	Steve Holmes	Will NM Tech's seismic detectors be operational during the upcoming filter change out (tentatively starting 5/27)?	Jones	tbd	NM Tech monitors are up and running. Public access is available online. URL will be posted.
71	05/19/14	Trais Kliphuis	Requested status of response to 18 questions submitted via 5/16 Kliphuis to Basabilvazo/Vincent email.	Vincent	tbd	Both CCP and LANL have drafted responses and are being reviewed. The exception is the headspace gas sampling data from LANL.
72	05/20/14	Trais Kliphuis	Requested a copy of the Energy Solutions report on neutralization.	Vincent	tbd	