From: Haagenstad, Mark P
Sent: Monday, April 13, 2015 4:06 PM
To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; John Kieling; steve.pullen@state.nm.us; Timothy.Hall@state.nm.us; siona.briley@state.nm.us; ricardo.maestas@state.nm.us; Gregory.Lauer@state.nm.us; steve.holmes@state.nm.us; coleman.smith@state.nm.us; butch.tongate@state.nm.us; Cobrain, Dave, NMENV; kathryn.roberts@state.nm.us
Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Torres, Enrique; Woitte, Deborah Kay; Clemmons, Steve; Allen, Don; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Diaz, Tammy; Branch, Yvette S; Guffee, Debi; Juarez, Catherine L; Armijo, Karen (CONTR); Saladen, Michael Thomas; Haagenstad, Mark P; epccat@lanl.gov
Subject: Daily Technical Submission - April 13, 2015

Attached is the written daily technical submission for today. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order;* the July 10, 2014 letter from NMED regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the September 19, 2014, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2*.

Please contact me if additional information would be helpful.

Mark Haagenstad
Environmental Protection Division
Compliance and Permitting Group
Los Alamos National Laboratory
Office: (505) 665-2014
Mobile: (505) 699-1733

NMED / LANL Technical Summary

April 13, 2015

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers.
    - All containers remain in the 375 Permacon.
  - Unremediated nitrate salt-bearing waste containers.
    - All containers remain in the 231 Permacon.
  - Suspect nitrate salt-bearing waste containers.
    - Containers are located in the 375 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
    - Previous 3 days' temperature data attached.
- **Monitoring – Visual Inspections**
  - No abnormal conditions were observed.
- **Monitoring – headspace gas (HSG)**
  - Containers (SWBs) 68685 and SB50522.
    - Continue daily head space gas (HSG) sample collection.
      - April 11-13, 2015 HSG data attached.
        - H_2, CO, CO_2 and N_2O
  - Other containers:
    - A minimum of once per month HSG sampling will be conducted.
      - To date in April, LANL has conducted HSG sampling on 35 containers.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Containers (SWB) 68685 and SB50522.
      - LANL continuing *solid phase micro-extraction*.
      - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
    - Five other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste) and four suspect nitrate salt-bearing waste POCs.
      - Twice-weekly HSG sample collection.
        - April 13, 2015 HSG data attached.
          - H_2, CO, CO_2 and N_2O
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**

- Currently, no further movements or re-packaging are occurring.

Other:

Next Call: Tuesday, April 14, 2015

Summary Chart - Requested Information / Pending Issues:

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED	---	Complete June 5, 2014
2.	Keep NMED informed on the status of on-going chemistry / analytical work.	LANL	---	Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	---	Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL	---	Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	---	Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	---	Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	---	Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	---	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO_2 and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO_x.	LANL	---	Complete June 16, 2014

	Requested Information	Actionee	Status	Completion Date
12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt-bearing containers at LANL.	LANL	---	Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers. WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	LANL	---	Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Eleventh submittal in response to item 5) October 8, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fourteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5) November 3, 2014 (Seventeenth submittal in response to item 5)

	Requested Information	Actionee	Status	Completion Date
14.	NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient.	NMED	NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan.	Complete June 23, 2014
15.	NMED has requested 'copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.'	LANL	---	Complete June 13, 2014 (Included w/ daily summary) June 16, 2014 (Discussed current TA-54 & WCRRF operations)
16.	NMED requested information on the location of drums 68327 and 68328. Request made June 14.	LANL	---	Complete June 14, 2014
17.	Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to schedule an update meeting).	LANL / NMED	---	Complete July 2, 2014
18.	Neutralizer use in association with container S855793 (parent of 68660 and 68685).	LANL	---	Complete June 25, 2014
19.	List of nitrate salt-bearing waste containers that LANL records indicate contain absorbed liquids with the same neutralizer, as discussed during June 25 technical call.	LANL	---	Complete September 30, 2014 (with August 26, 2014 response)
20.	Schedule follow-on update on LANL efforts – including teams.	LANL / NMED	---	Complete August 14, 2014 (Meeting held)
21.	NMED requested information on document approval / review (as discussed on July 3 call).	LANL	---	Complete July 29, 2014
22.	What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste.	LANL	---	Complete July 7, 2014
23.	NMED requested the following information on cemented waste containers generated from TA-55, that are currently stored above-ground at Area G: container id number; location; form (cans or monoliths); and type of concrete. Additionally, NMED requested information on pH adjustment during waste generation process, and information on anticipated pH of free liquids (and rationale).	LANL	---	Complete July 17, 2014 (Letter sent w/ information) July 18, 2014 (Meeting held)

	Requested Information	Actionee	Status	Completion Date
24.	NMED requested the procedure for sampling empty parent drums that previously contained nitrate salt-bearing waste.	LANL	EP-AREAG-WO-DOP-1245 is included in Enclosure 1 to LANL's July 3, 2014 *Response to Request for Information on Management of Waste at LANL*.	Complete July 8, 2014
25.	NMED requested an additional discussion on a future technical call regarding CO_2, including data.	LANL	---	Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL	---	Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL	---	Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3rd Q 2008).	LANL	---	Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	---	Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL	---	Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	---	Complete September 29, 2014 (meeting held)
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	---	Complete October 20, 2014

	Requested Information	Actionee	Status	Completion Date
36.	NMED request regarding LANL Causal Analysis associated with processing of nitrate salt-bearing waste at WCRRF – when document is Final.	LANL	Document is currently Draft.	
37.	NMED requested a diagram illustrating the current locations within the 375 Permacon of the 55 SWBs that contain the 57 remediated nitrate salt-bearing waste containers. NMED also requested a list of these 55 SWBs and the waste drums within each SWB (including the container numbers and waste stream type).	LANL	---	Complete October 27, 2014 (Diagram submitted) November 3, 2014 (Table submitted) November 20, 2014 (Revised table submitted)

	Requested Information	Actionee	Status	Completion Date
38.	NMED requested documentation regarding CIN01.001 waste containers that are not part of the September 19, 2014 Nitrate Salts-Bearing Waste Container Isolation Plan, Revision 2.	LANL	In Progress LANL will submit this documentation in batches as it is becomes available.	Submitted 100 out of 586 RTRs and documentation on October 3, 2014. Submitted documentation for 101-200 containers on October 10, 2014. Submitted documentation for 201-300 containers on October 16, 2014. Submitted documentation for 301-400 containers on October 23, 2014. Submitted documentation for 401-500 containers on October 27, 2014. Submitted documentation for 501-586 containers on November 12, 2014. Submitted RTR Videos 101-150 on November 12, 2014. Submitted RTR Videos 151-200 on November 20, 2014. Submitted RTR Videos 201-250 on December 1, 2014. Submitted RTR Videos 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL	---	Complete October 27, 2014
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft.	
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	In progress	
42.	Schedule a fourth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 3, 2014

	Requested Information	Actionee	Status	Completion Date
43.	Schedule a fifth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 20, 2014
44.	Schedule a sixth update on LANL efforts – including teams.	LANL/ NMED	---	Complete December 9, 2014
45.	NMED requested documentation regarding CIN01 drums.	LANL	---	Complete Email- February 3, 2015 Letter- February 19, 2015
46.	NMED requested documentation regarding duplicate drum number.	LANL	In progress	
47.	NMED requested the ESS plan for temperature control and sampling once finalized.	LANL	Document is currently in Draft.	
48.	Schedule a seventh update on LANL efforts – including teams.	LANL/ NMED	---	Complete January 29, 2015
49.	Fire suppression repair plan for Dome 231	LANL	---	This repair plan is no longer necessary because drum movement did not occur during the repair process. Repair is complete.
50.	NMED requested information regarding solution packages 36, 37, 57 and 78.	LANL	---	Complete. Email – February 17, 2015. Letter- March 19, 2015.
51.	NMED requested copies of any procedures regarding cementation in bags.	LANL	---	March 19, 2015 Confirmation that no specific procedure can be located for cementation in bags.
52.	NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.	LANL	In progress	
53.	NMED requested the document "TA-55 Cement Fixation Drum Logbook" referenced in the CCP AK document.	LANL	In progress	
54.	NMED requested summary sheet for HSG data.	LANL	---	Complete April 9, 2015.
55.	NMED requested additional discussion on engineering options for cooling in Summer months.	LANL	In progress	

	Requested Information	Actionee	Status	Completion Date
56.	NMED requested references in Technical Assessment Team report Waste Isolation Pilot Plant (WIPP): Chemical Reactivity and Recommended Remediation Strategy for Los Alamos Remediated Nitrate Salt (RNS) Wastes.	LANL	---	Complete April 9, 2015.
57.	Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.	LANL/ NMED	In Progress	

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				69553				69615			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/11/15	146	337	7913	1847								
04/12/15	158	364	8720	2079								
04/13/15	156	374	8757	2090	199	546	12799	1687	78	271	6814	276

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/11/15												
04/12/15												
04/13/15	339	680	15203	2849	521	875	18916	2416	715	657	12725	2202

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522				87823				87825			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/11/15	2869	423	31934	951								
04/12/15	2771	456	34890	1021								
04/13/15	2444	461	33815	985	187	191	5721	729	186	243	8270	1132

Remediated Nitrate Salt Container Headspace Gas Analysis

	87826				87827			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/11/15								
04/12/15								
04/13/15	236	314	11244	1270	38	91	2769	275

ATTACHMENT 2
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TA-54 AREA G TA-54-231 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 4/6/15 to 4/12/15

	Monday 6.[6] Start Time: 1016	Tuesday 6.[6] Start Time: 1138	Wednesday 6.[6] Start Time: 0916	Thursday 6.[6] Start Time: 0915	Friday 6.[6] Start Time: 0820	Saturday 6.[6] Start Time: 0814	Sunday 6.[6] Start Time: 0813
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101947	Brand: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101947	Brand: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101947	Brand: FLUKE Model: ~~5146~~ 561 Cal. Due Date: 7/29/15 File Number 101947	Brand: FLUKE Model: 561 Cal. Due Date: 7-29-15 File Number 101947	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974
Ambient Temperature (6.[7])	57.5 °F	61.2 °F	56.1 °F	52.0 °F	51.8 °F	55.5 °F	52.6 °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
S818435	59.8	61.2	56.9	52.8	53.5	53.9	53.7
S802833	57.2	60.5	56.2	53.5	53.8	53.4	53.1
S801676	57.0	59.9	56.1	53.5	53.4	53.1	53.0
S816810	57.0	59.7	55.8	56.0	55.6	56.0	55.1
70069	56.7	59.7	55.5	55.6	55.5	56.1	55.2
S822844	56.8	59.8	55.8	55.9	56.1	56.4	55.4
S825879	57.3	60.2	55.6	55.0	55.6	55.9	54.8
S793724	56.9	60.2	55.9	55.3	56.2	56.2	55.1
S813545	57.1	59.6	56.4	55.4	55.6	55.8	55.0
S822713	57.9	61.4	56.2	54.3	54.0	54.4	53.7
S802739	57.2	61.0	56.0	53.3	53.2	53.8	53.1
69907	56.8	60.7	56.3	52.8	53.1	53.5	53.1
S804995	57.7	60.9	56.5	53.4	53.7	54.3	53.5
S816434	58.1	60.7	57.3	54.2	54.7	55.0	54.6

ATTACHMENT 2
Page 2 of 3

6.[6] Date: From 4/6/15 to 4/12/15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-231 (continued)							
S805289	58.2	61.7	57.1	54.6	54.1	54.6	53.9
S862888	58.4	61.1	56.4	54.0	54.1	54.8	54.1
70072	57.3	60.2	56.0	53.4	53.6	54.2	53.6
S823184	57.6	61.0	56.3	53.7	54.3	54.8	53.7
S822599	57.7	60.8	56.5	54.9	55.0	55.5	54.4
69904	57.3	60.0	56.1	55.6	55.2	55.9	54.8
S805051	56.9	59.7	55.8	55.5	55.5	56.1	55.1
S864213	57.0	59.6	55.9	55.9	55.9	56.7	55.3
S853714	57.0	59.9	55.7	56.1	55.7	56.4	55.1
S803078	57.3	60.4	55.8	55.6	55.3	56.2	54.9
S825878	57.5	60.3	56.0	55.3	55.7	56.4	55.2
S823124	57.6	60.7	56.3	56.1	55.5	56.1	54.8
S804948	58.0	61.3	56.7	54.6	53.9	54.7	54.0
S813385	57.4	61.3	56.6	54.2	54.0	54.7	53.9
S842446	58.4	61.7	57.6	55.3	54.9	55.5	54.9
Ambient Temperature (6.[13])	57.5 °F	61.5 °F	56.3 °F	57.5 °F	51.2 °F	55.0 °F	52.9 °F
End Time (6.[14])	1021	1142	0920	0918	0829	0821	0820
6.[14]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: NS	Operator: JR Operator: EC	Operator: JR Operator: EC

ATTACHMENT 2
Page 3 of 3

6.[6] Date: From 4/6/15 to 4/12/15

6.[2] Comments: _____

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/6/15
Thomas Vigil	[signature]	136382	[signature]	4/6/15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/7/15
Thomas Vigil	[signature]	136382	[signature]	4/7/15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/8/15
Thomas Vigil	[signature]	136382	[signature]	4/8/15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/9/15
Thomas Vigil	[signature]	136382	[signature]	4/9/15
Juan Garcia	[signature]	169840	[signature]	4-10-15
Norman Sanchez	[signature]	187815	NS	4-10-15
Jackie Romero	Jackie Romero	1870661	JR	14-11-15
Edward Gilbert	[signature]	1114188	EG	4-11-15
Jackie Romero	Jackie Romero	1870661	JR	14-12-15
Edward Gilbert	[signature]	1114188	EG	4-12-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
Page 1 of 3

TA-54 AREA G TA-54-375 CELL 1 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 4/6/15 to 4/12/15

	Monday 6.[6] 4-6-15 Start Time: ~~1400~~ 1413	Tuesday 6.[6] Start Time: 0957	Wednesday 6.[6] Start Time: 1110	Thursday 6.[6] Start Time: 1111	Friday 6.[6] Start Time: 0728	Saturday 6.[6] Start Time: 0745	Sunday 6.[6] Start Time: 0727
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date 6-12-15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date 06-12-15 File Number 101915	Brand: FLUKE Model: 561 Cal. Due Date: 06-12-15 File Number 101915	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101915	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101915
Ambient Temperature (6.[7])	67.1 °F	57.3 °F	61.7 °F	55.8 °F	52.3 °F	52.9 °F	51.6 °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685	65.9	58.0	61.8	56.6	54.1	54.6	52.7
LA00000070503 68540	65.6	57.3	61.6	56.5	53.9	54.8	52.8
LA00000070503 68553	66.7	57.2	62.0	56.5	53.7	54.8	52.1
69445	66.5	57.4	61.7	56.7	53.9	54.3	52.5
69618	65.2	57.5	61.1	56.8	53.0	54.9	52.7
69013	65.2	57.4	61.6	57.2	54.5	55.6	52.9
LASB50522	66.2	58.1	61.7	57.7	55.3	55.1	53.8
LASB50452	65.1	58.2	61.8	57.6	55.0	55.3	53.3
LASB50431	64.8	58.0	61.6	57.3	55.3	55.3	53.5
LASB50069	65.0	58.8	61.8	57.0	54.6	55.5	53.2
LASB50073	65.4	58.1	61.4	57.0	55.1	55.5	53.7
69636	65.2	57.9	61.7	57.1	55.4	55.4	53.9
69616	64.9	58.0	62.0	57.0	55.2	55.8	53.6
69417	65.4	58.3	61.7	~~57.0~~ 57.0	55.3	55.5	53.8

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6.[6] Date: From 4/6/15 to 4/12/15

Container ID #	Monday Temp (°F) (6.[8]/6.[9])	Tuesday Temp (°F) (6.[8]/6.[9])	Wednesday Temp (°F) (6.[8]/6.[9])	Thursday Temp (°F) (6.[8]/6.[9])	Friday Temp (°F) (6.[8]/6.[9])	Saturday Temp (°F) (6.[8]/6.[9])	Sunday Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (continued)							
69620	65.3	57.9	61.5	57.3	55.4	55.8	54.0
69520	65.1	58.1	61.6	57.4	55.3	56.2	54.0
69641	65.4	58.3	61.8	57.4	55.7	56.3	54.6
69298	65.9	58.2	61.9	57.4	55.7	55.9	54.3
LASB02203	65.1	58.0	61.6	57.3	55.6	56.0	54.1
Ambient Temperature (6.[13])	62.6 °F	58.5 °F	62.4 °F	55.7 °F	52.7 °F	54.0 °F	51.9 °F
End Time (6.[14])	1415	1001	1114	1116	0732	0750	0731
6.[14]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: NS	Operator: Operator:	Operator: Operator:

6.[2] Comments:

ATTACHMENT 3
Page 3 of 3

6.[6] Date: From 4/6/15 to 4/12/15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez	Joshua Lopez	116598	JL	040615
Lina Aguirre	Lina Aguirre	174977	LA	4-6-15
Lina Aguirre	Lina Aguirre	174977	LA	4-7-15
Joshua Lopez	Joshua Lopez	116598	JL	040715
Lina Aguirre	Lina Aguirre	174977	LA	4-8-15
Joshua Lopez	Joshua Lopez	116598	JL	040815
Lina Aguirre	Lina Aguirre	174977	LA	4-09-15
Joshua Lopez	Joshua Lopez	116598	JL	040915
Juan Garcia	Juan Garcia	169840	JG	04-10-15
Norman Sanchez	Norman Sanch	187818	NS	4-10-15
Juan Garcia	Juan Garcia	169840	JG	4-11-15
Pancho Miera	PMS	235765	PM	4-11-15
Juan Garcia	Juan Garcia	169840	JG	4-12-15
Pancho Miera	PMS	235765	PM	4-12-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54 AREA G TA-54-375 CELL 2 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 4/6/15 to 4/12/15

	Monday 6.[6] Start Time: 1416	Tuesday 6.[6] Start Time: 1053	Wednesday 6.[6] Start Time: 1115	Thursday 6.[6] Start Time: 1117	Friday 6.[6] Start Time: 0733	Saturday 6.[6] Start Time: 0751	Sunday 6.[6] Start Time: 0732
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: FLUKE Model: 561 Cal. Due Date: 06-12-15 File Number 101912	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101912
Ambient Temperature (6.[7])	62.8 °F	57.9 °F	61.1 °F	58.1 °F	54.8 °F	55.4 °F	55.2 °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
LASB02198	62.9	57.4	60.9	58.6	55.7	56.0	55.6
68638	63.1	57.6	61.3	59.0	55.2	55.2	55.2
69615	64.1	57.7	61.3	58.7	55.5	55.5	55.1
69635	64.4	58.1	61.8	59.0	55.8	56.2	55.8
69642	64.1	57.9	61.7	58.7	55.1	55.6	54.9
69630	64.2	58.1	61.9	58.7	55.4	55.7	55.4
69633	63.8	58.6	61.4	60.0	56.0	56.1	55.9
68430	63.8	58.0	61.7	58.9	55.1	55.5	55.1
68631	64.1	58.0	61.4	58.6	54.9	55.5	55.0
69634	63.3	58.1	61.8	59.0	55.5	55.6	55.5
68567	62.9	57.1	60.9	58.5	55.8	55.6	55.6
94227	63.0	57.3	61.0	58.5	55.3	55.8	55.6
LASB50442	64.0	58.0	61.7	59.2	55.8	55.3	55.7
69644	63.9	57.8	61.3	59.2	55.8	55.9	56.1
LASB50443	63.8	57.5	60.9	59.0	55.5	55.9	55.6
69638	63.9	57.7	60.3	59.4	55.7	55.5	~~55.7~~ 4-12-15 55.5

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6.[6] Date: From 4/6/15 to 4/12/15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 2 (continued)							
68624	64.2	57.7	61.2	59.4	55.9	56.4	56.6
68507	63.8	57.7	61.4	59.0	55.5	56.1	56.1
69568	63.7	57.5	61.0	59.1	55.4	55.5	55.6
69553	63.2	57.0	60.3	58.5	55.3	55.7	55.6
69598	62.9	56.9	60.9	58.4	55.7	55.6	55.7
LASB50559	63.0	57.3	61.2	58.8	55.8	55.7	56.0
69015	63.5	57.9	61.5	59.5	55.9	55.6	56.0
69639	64.0	57.9	61.2	59.9	56.4	56.7	56.6
69637	63.8	57.5		59.7	56.2	56.5	56.3
Ambient Temperature (6.[13])	63.4 °F	57.8 °F	61.2 °F	58.4 °F	54.9 °F	55.3 °F	55.4 °F
End Time (6.[14])	1422	1009	1119	1121	0739	0756	0738
6.[14]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: NS	Operator: Operator:	Operator: Operator:

6.[2] Comments:

ATTACHMENT 4
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6.[6] Date: From 4/6/15 to 4/12/15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	114977	AA	4-6-15
Joshua Lopez	Joshua Lopez	116598	JL	040615
Tina Aguirre	Tina Aguirre	114977	AA	4-7-15
Joshua Lopez	Joshua Lopez	116598	JL	040715
Tina Aguirre	Tina Aguirre	114977	AA	4-08-15
Joshua Lopez	Joshua Lopez	116598	JL	040815
Tina Aguirre	Tina Aguirre	114977	AA	4-09-15
Joshua Lopez	Joshua Lopez	116598	JL	040915
Juan Garcia	Juan Garcia	169840	JG	04-10-15
Norman Sanchez	Norman Sanchez	187818	NS	4-10-15
Juan Garcia	Juan Garcia	169840	JG	4-11-15
Pancho Miera	Pancho Miera	235765	PM	4-11-15
JUAN GARCIA	Juan Garcia	169840	JG	4-12-15
Pancho Miera	Pancho Miera	235765	PM	4-12-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 5
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TA-54 AREA G TA-54-375 CELL 3 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 4/6/15 to 4/12/15

	Monday 6.[6] Start Time: 1400	Tuesday 6.[6] Start Time: 0952	Wednesday 6.[6] Start Time: 1106	Thursday 6.[6] Start Time: 1105	Friday 6.[6] Start Time: 0721	Saturday 6.[6] Start Time: 0740	Sunday 6.[6] Start Time: 0719
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 06-12-15 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101916
Ambient Temperature (6.[7])	63.9 °F	63.2 °F	61.5 °F	57.3 °F	53.3 °F	53.7 °F	54.4 °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
69519	63.9	58.2	61.9	0400 6 59.1	55.1	55.0	55.4
69645	~~63.8~~	58.5	62.0	59.3	55.3	55.6	56.0
94068	63.6	58.1	61.8	59.5	55.4	55.1	55.8
93605	63.7	58.3	62.4	58.5 ~~58.5~~ 0404 15	55.3	55.3	55.9
69548	64.5	58.0	61.8	58.3	55.0	54.8	55.3
69604	64.0	58.2	61.7	58.5	55.1	55.1	55.8
LASB50529	64.4	58.2	61.9	59.0	55.2	55.0	55.4
LASB50418	63.7	58.5	61.8	58.9	54.6	54.9	55.4
69036	~~63.3~~ ~~63.7~~ 63.8	58.2	61.5	58.4 ~~57.9~~ 0404 15	54.4	54.2	~~55.8~~ 4-12-15 54.8
LASB50451	64.0	57.7	61.6	57.9 ~~58.7~~ 0404 15	54.5	54.4	54.4
69559	64.4	57.6	61.4	58.7 ~~57.3~~ 0404 15	54.9	54.7	54.6
LASB50448	63.9	57.5	61.1	57.3	54.9	55.0	55.4
87823	62.1	57.3	61.2	58.3	53.8	54.0	54.3
87825	64.2	58.9	61.0	57.9	53.6	53.7	54.0
87826	62.4	57.7	61.1	57.9	54.5	54.7	55.0
87827	62.8	58.1	61.1	57.9	54.5	54.6	55.3

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6.[6] Date: From 4/6/15 to 4/12/15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 3 (continued)							
Ambient Temperature (6.[13])	64.0 °F	57.5 °F	61.6 °F	58.0 °F	54.1 °F	54.4 °F	54.6 °F
End Time (6.[14])	1412	0955	1109	1108	0727	0744	0726
6.[14]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: NS	Operator: Operator:	Operator: Operator:

6.[2] Comments:

ATTACHMENT 5
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6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	Z174778	TA	4-6-15
Joshua Lopez	Joshua Lopez	116598	JL	040615
Tina Aguirre	Tina Aguirre	Z174778	TA	4-7-15
Joshua Lopez	Joshua Lopez	116598	JL	040715
Tina Aguirre	Tina Aguirre	Z174778	TA	4-08-15
Joshua Lopez	Joshua Lopez	116598	JL	040815
Tina Aguirre	Tina Aguirre	Z174778	TA	4-09-15
Joshua Lopez	Joshua Lopez	116598	JL	040915
Juan Garcia	Juan Garcia	169840	JG	04-10-15
Norman Sanchez	Norman Sanchez	187818	NS	4-10-15
JUAN GARCIA	Juan Garcia	169840	JG	4-11-15
Pancho Miera	Pancho Miera	235765	PM	4-11-15
Juan Garcia	Juan Garcia	169840	JG	4-12-15
Pancho Miera	Pancho Miera	235765	PM	4-12-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 4-10-15 to 4-10-15 Location: Dome 375

	Start Time: 6.[6] 0642	Start Time: 6.[6] 0743	Start Time: 6.[6] 0839	Start Time: 6.[6] 0938	Start Time: 6.[6] 1039	Start Time: 6.[6] 1137	Start Time: 6.[6] 1233	Start Time: 6.[6] 1334	Start Time: 6.[6] 1432	Start Time: 6.[6] 1532	Start Time: 6.[6] 1631	Start Time: 6.[6] 1733	Start Time: 6.[6] N/A	Start Time: 6.[6] N/A
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	51.35 °F	52.53 °F	52.08 °F	53.05 °F	54.87 °F	56.5 °F	58.68 °F	60.87 °F	62.35 °F	63.3 °F	61.74 °F	60.36 °F	____ °F	____ °F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685T1	52.15	53.25	52.71	53.35	55.1	56.67	58.75	60.63	62.03	62.91	61.98	60.6		
68685T2	51.68	52.73	52.26	52.98	54.61	56.09	58.05	59.78	61.12	61.96	61.40	60.22		
50522T3	53.2	53.94	53.48	53.93	55.14	56.32	57.97	59.43	60.49	61.3	60.67	59.37		
50522T4	52.96	53.75	53.3	53.87	55.23	56.41	58.0	59.46	60.55	61.29	60.68	59.53		
							N/A							

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6.[6] Date: From 4-10-15 to 4-10-15 Location: Dome 375

Container ID # (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6.[9])
Ambient Temperature (6.[13])	51.4 °F	52.32 °F	52.07 °F	53.05 °F	54.9 °F	56.55 °F	58.7 °F	60.89 °F	62.37 °F	63.32 °F	61.6 °F	60.22 °F	____ °F	____ °F
End Time (6 [14])	0643	0744	0840	0939	1040	1138	1234	1335	1433	1533	1632	1734		
6.[14]	Operator: NS / Operator:	Operator: / Operator: NS	Operator: / Operator: NS	Operator: / Operator: NS	Operator: NS / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: NS / Operator:	Operator: / Operator: NS	Operator: / Operator: NS	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 4-10-15 to 4-10-15 Location: Dome 375

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	1169840	JJ	4-10-15
Norman Sanchez	Norman Sanchez	1187814	NS	4-10-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JR	4-10-15

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 4-10-16 to 4-11-15 Location: 375

	Start Time: 6.[6] 1831	Start Time: 6.[6] 1930	Start Time: 6.[6] 2033	Start Time: 6.[6] 2131	Start Time: 6.[6] 2234	Start Time: 6.[6] 2329	Start Time: 6.[6] 0031	Start Time: 6.[6] 0128	Start Time: 6.[6] 0233	Start Time: 6.[6] 0330	Start Time: 6.[6] 0425	Start Time: 6.[6] 0538	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	58.38 °F	57.96 °F	57.66 °F	55.97 °F	54.77 °F	54.32 °F	53.95 °F	53.74 °F	52.71 °F	52.45 °F	52.15 °F	52.66 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685T1	58.62	57.9	57.57	55.87	54.63	54.21	53.87	53.14	52.76	52.51	52.25	52.85		
68685T2	58.43	57.51	56.98	55.29	54.17	53.92	53.50	52.85	52.36	51.98	51.88	52.67		
50522T4	58.05	57.59	57.51	56.26	55.24	54.02	54.66	52.94	53.71	52.62	53.23	53.49		
50522T5	58.17	57.58	57.42	56.07	55.12	53.90	54.52	52.89	53.59	53.35	53.09	53.52		

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6.[6] Date: From 4-10-15 to 4-11-15 Location: 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
							N		A				N	A
Ambient Temperature (6.[13])	58.39 °F	57.94 °F	57.66 °F	55.97 °F	54.74 °F	54.32 °F	53.95 °F	53.74 °F	52.68 °F	52.45 °F	52.13 °F	52.73 °F	____ °F	____ °F
End Time (6.[14])	1832	1931	2034	2132	2235	2330	0032	0129	~~0233~~ 0411	0331	0426	0639		
6.[14]	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: CV / Operator: EP	Operator: ____ / Operator: N	Operator: ____ / Operator: A

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6.[6] Date: From 4-10-15 to 4-11-15 Location: 375

6.[2] Comments: ~~Assumed NDO duties @ 1757 from John Garcia~~ Edward Pacheco [signature] 100497 CV 4/10/15

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Chris Vigil	[signature]	163082	CV	4-10-15
Edward Pacheco	[signature]	100497	EP	4-10-2015
N/A				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Eloyd Cordova	[signature]	114188	EC	4-11-15

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 4-11-15 to 4-11-15 Location: Dome 375 Cell 1

	Start Time: 6.[6] 0638	Start Time: 6.[6] 0729	Start Time: 6.[6] 0830	Start Time: 6.[6] 0930	Start Time: 6.[6] 1029	Start Time: 6.[6] 1131	Start Time: 6.[6] 1232	Start Time: 6.[6] 1332	Start Time: 6.[6] 1431	Start Time: 6.[6] 1530	Start Time: 6.[6] 1630 4-11-15	Start Time: 6.[6] 1722	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	52.13 °F	53.55 °F	53.16 °F	54.38 °F	56.45 °F	59.88 °F	61.78 °F	61.86 °F	62.41 °F	63.31 °F	64.1 °F	63.26 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685 T1	52.53	54.23	53.69	54.62	56.72	59.66	61.58	62.31	63.18	64.18	64.68	63.18		
68685 T2	52.02	53.92	53.21	54.23	56.17	58.99	60.72	61.57	62.21	63.05	63.68	63.83		
50522 T4	53.46	54.37	54.22	54.8	56.27	58.55	60.04	60.5	60.69	61.38	61.95	61.55		
50522 T5	53.32	54.39	54.07	54.86	56.42	58.7	60.12	60.59	60.79	61.47	62.06	61.67		

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6.[6] Date: From 4.11.15 to 4.11.15 Location: Dome 375 Cell 1

Container ID # (6 [8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
								N/A							
Ambient Temperature (6.[13])	52.1 °F	53.55 °F	53.16 °F	54.41 °F	56.45 °F	59.95 °F	61.78 °F	61.95 °F	62.41 °F	63.31 °F	63.99 °F	63.17 °F	°F	°F
End Time (6 [14])	0639	0730	0831	0931	1030	1132	1233	1333	1432	1531	1631	1723		
6 [14]	Operator: R Operator:	Operator: R Operator:	Operator: R Operator: R	Operator: R Operator:	Operator: R Operator: R	Operator: R Operator:	Operator: R Operator: R	Operator: R Operator:	Operator: R Operator: R	Operator: R Operator:	Operator: R Operator: R	Operator: R Operator:	Operator: Operator:	Operator: Operator:

ATTACHMENT 6
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6.[6] Date: From 4-11-15 to 4-11-15 Location: Dome 375 Cell 1

6.[2] Comments: NC

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
JUAN GARCIA	Juan Garcia	169840	JG	4-11-15
Pancho Mirra	[signature]	235…	PM	4-11-15
	N/A			

Operator (print)	Signature	Z#	Initials	Date
	N/A			

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1870661	JR	4-11-15

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6 [6] Date: From 4.11.15 to 4.12.15 Location Dome 375 Cell 1

	Start Time: 6.[6] 1828	Start Time: 6.[6] 1923	Start Time: 6.[6] 2027	Start Time: 6.[6] 2127	Start Time: 6.[6] 2226	Start Time: 6.[6] 2326	Start Time: 6.[6] 0026	Start Time: 6.[6] 0126	Start Time: 6.[6] 0226	Start Time: 6.[6] 0326	Start Time: 6.[6] 0426	Start Time: 6.[6] 0518	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: N Model: Cal. Due Date: A File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[7])	61.0 °F	58.92	58.87 °F	57.1 °F	56.98 °F	56.94 °F	58.8 °F	54.81 °F	53.78 °F	52.85 °F	52.65 °F	52.36 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9]) 0445 56.85	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685 T_4	61.51	59.19	58.81	57.38	56.85	56.44	55.69	54.78	53.91	52.97	52.85	52.56		
68685 T_2	61.16	59.01	58.28	56.84	56.37	56.04	55.30	54.34	53.46	52.62	52.50	52.22		
50522 T_4	60.09	58.57	58.44	57.4	56.97	56.64	56.1	55.4	54.66	53.99	53.00	53.09		
50522 T_5	60.24	58.7	58.39	57.24	56.8	56.51	55.94	55.24	54.45	53.79	53.12	53.4		
									N A					

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114188
EL DAT 4.11.15

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6.[6] Date. From 4·11·15 to 4·12·15 Location: Dome 375 cell 1

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
Ambient Temperature (6.[13])	61.05 4-11-15	58.97	58.87	57.5 °F	56.98	56.54	55.8 °F	041215 55.81 °F	53.78	52.85 °F	52.65 °F	52.36 °F	____ °F	____ °F
End Time (6.[14])	1829	1924	2008	2128	2227 041115	2327 041115	0027	0127	0227	0327	0427	0519		
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From 4·11·15 to 4·12·15 Location: Dome 375 Cell 1

6.[2] Comments: N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	114599	TA	4-12-15
Joshua Coper	Joshua Coper	116578	JC	041215

N/A

Operator (print)	Signature	Z#	Initials	Date

N/A

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Eleno Cordova	[signature]	114186	EC	4·12·15

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 4-12-15 to 4-12-15 Location: Dome 375

	Start Time: 6.[6] 0640	Start Time: 6.[6] 0733	Start Time: 6.[6] 0834	Start Time: 6.[6] 0930	Start Time: 6.[6] 1032	Start Time: 6.[6] 1130	Start Time: 6.[6] 1233	Start Time: 6.[6] 1333	Start Time: 6.[6] 1432	Start Time: 6.[6] 1535	Start Time: 6.[6] 1633	Start Time: 6.[6] 1730	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	52.14 °F	51.93 °F	52.97 °F	53.48 °F	54.91 °F	57.74 °F	61.33 °F	62.15 °F	62.19 °F	63.0 °F	63.15 °F	62.3 °F	°F	N/A °F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685 T1	52.38	52.24	53.51	53.71	55.09	57.79	61.18	62.38	62.8	63.78	63.87	63.05		
68685 T2	52.06	52.07	53.08	53.35	54.71	57.32	60.42	61.59	61.90	62.83	63.04	62.52		
50522 T4	53.33	53.23	54.19	54.29	55.18	57.15	59.64	60.66	60.44	61.18	61.31	60.97		
50522 T5	53.21	53.09	54.02	54.24	55.26	57.3	59.82	60.74	60.6	61.28	61.45	61.12		
						N/A								

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6.[6] Date: From 4-12-15 to 4-12-15 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
						N A							NA	
Ambient Temperature (6.[13])	52.14 °F	52.01 °F	52.99 °F	53.5 °F	54.97 °F	57.84 °F	61.33 °F	62.12 °F	62.19 °F	62.83 °F	4-12-15 ~~63.15~~ °F 63.15	62.37 °F	°F	°F
End Time (6.[14])	0641	0734	0835	0931	1033	1131	1234	1334	1433	1536	1634	1731		
6 [14]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

ATTACHMENT 6
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6.[6] Date: From 4-12-15 to 4-12-15 Location: Dome 375

6.[2] Comments: N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	[signature]	169840	[initials]	4-12-15
Pancho Miera	[signature]	235715	[initials]	4-12-15

N/A

Operator (print)	Signature	Z#	Initials	Date

N/A

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Eleto J. Cordova	[signature]	114186	SC	4-12-15

ATTACHMENT 6
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6 [6] Date: From 4.12.15 to 4.13.15 Location: Dome 375 Cell 1

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1927	Start Time: 6.[6] 2030	Start Time: 6.[6] 2130	Start Time: 6.[6] 2226	Start Time: 6.[6] 2331	Start Time: 6.[6] 0027	Start Time: 6.[6] 0131	Start Time: 6.[6] 0230	Start Time: 6.[6] 0330	Start Time: 6.[6] 0429	Start Time: 6.[6] 0529	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model NA / Cal. Due Date / File Number	Brand / Model / Cal. Due Date / File Number	Brand / Model / Cal. Due Date / File Number
Ambient Temperature (6.[7])	61.16 °F	58.84 °F	57.80 °F	57.60 °F	58.11 °F	58.74 °F	58.60 °F	58.19 °F	57.99 °F	57.21 °F	56.50 °F	55.91 °F	N/A °F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685 T1	61.70	59.15	58.15	57.70	58.24	58.71	58.45	57.98	57.78	57.06	56.39	55.82		
68685 T2	61.25	59.07	58.11	57.60	57.95	58.30	57.99	57.54	57.30	56.60	55.98	55.39		
50522 T4	60.03	58.43	57.71	57.40	57.76	58.36	58.18	57.83	57.65	57.14	54.65	56.18		
50522 T5	60.22	58.61	57.84	57.49	57.86	58.35	58.09	57.72	57.56	57.02	56.50	5604		
						n/A								

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6.[6] Date: From 4.12.15 to 4.13.15 Location: Dome 375 cell

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
						N/A								N/A	
Ambient Temperature (6.[13])	61.14 °F	~~58.84~~ 57.80 °F WQC 4.14.15	57.80 °F	~~57.56~~ °F	58.12 °F	58.74 °F	58.59 °F	58.19 °F	57.99 °F	57.23 °F	56.50 °F	55.92 °F	____ °F	____ °F
End Time (6.[14])	1831	1928	2030	2131	2227	2331	0028	0132	0230	0331	0429	0530		
6.[14]	Operator: JH Operator: WQC	Operator: WQC Operator: JH	Operator: JH Operator: WQC	Operator: WQC Operator: JH	Operator: WQC Operator: JH	Operator: JH Operator: WQC	Operator: WQC Operator: JH	Operator: JH Operator: WQC	Operator: WQC Operator: JH	Operator: JH Operator: [illegible]	Operator: JH Operator: [illegible]	Operator: JH Operator: [illegible]	Operator: ____ Operator: ____	Operator: ____ Operator: ____

ATTACHMENT 6

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6.[6] Date: From 4-12-15 to 4-13-15 Location: Dome 375 cell 1

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
John Quintana	[signature]	119055	JQ	4/12/15
Willie J. Carlos	[signature]	112907	WJC	4-12-15
N/A				

Operator (print)	Signature	Z#	Initials	Date
N/A				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Gary Mulkey	[signature]	216235	[initials]	4-13-15