

From: Haagenstad, Mark P

Sent: Monday, December 08, 2014 5:43 PM

To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; John Kieling; steve.pullen@state.nm.us; Kliphuis, Trais, NMENV; 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

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; Roberts, Kathryn Margaret; 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, Sandra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Diaz, Tammy; Juarez, Catherine L; Robinson, Bruce Alan; Lansing, Michael Alan

Subject: Daily Technical Submission - December 8, 2014

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.

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NMED / LANL Technical Summary

December 8, 2014

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.
- **Monitoring - Daily Temperature**
 - Temperatures remain below 90°F.
 - Previous 3 days' daily 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.
 - December 6-8, 2014 HSG data attached.
 - H₂, CO, CO₂ and N₂O
 - Other containers
 - A minimum of once per month HSG sampling will be conducted.
 - To date in December, LANL has conducted HSG sampling on 31 SWBs.
 - December 8, 2014 HSG data attached.

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 (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue twice-weekly HSG sample collection.

Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).

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

Other:

Next Call: Tuesday, December 9, 2014

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	---	<p>Complete</p> <p>Empty Parent June 16, 2014</p> <p>Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers)</p> <p>August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)</p>

	Requested Information	Actionee	Status	Completion Date
13.	<p>Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.</p> <p>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.</p>	LANL	---	<p>Complete</p> <p>July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)</p> <p>July 17, 2014 (Letter sent with updated spreadsheet)</p> <p>August 7, 2014 (First submittal in response to item 5)</p> <p>August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5)</p> <p>August 18, 2014 (Third submittal in response to item 5)</p> <p>August 21, 2014 (Fourth submittal in response to item 5)</p> <p>August 27, 2014 (Fifth submittal in response to item 5)</p> <p>September 4, 2014 (Sixth submittal in response to item 5)</p> <p>September 9, 2014 (Seventh submittal in response to item 5)</p> <p>September 11, 2014 (Eighth submittal in response to item 5)</p> <p>September 22, 2014 (Ninth submittal in response to item 5)</p> <p>September 23, 2014 (Tenth submittal in response to item 5)</p> <p>October 1, 2014 (Eleventh submittal in response to item 5)</p> <p>October 8, 2014 (Twelfth submittal in response to item 5)</p> <p>October 16, 2014 (Thirteenth submittal in response to item 5)</p> <p>October 23, 2014 (Fourteenth submittal in response to item 5)</p> <p>October 27, 2014 (Fifteenth submittal in response to item 5)</p> <p>October 28, 2014 (Sixteenth submittal in response to item 5)</p> <p>November 3, 2014 (Seventeenth submittal in response to item 5)</p>

	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 <i>Response to Request for Information on Management of Waste at LANL</i> .	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 (3 rd 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	In Progress Meeting scheduled for Monday September 29th	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)
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 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.

	Requested Information	Actionee	Status	Completion Date
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
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	In progress: Meeting scheduled for December 9, 2014.	
45.	NMED requested documentation regarding CIN01 drums.	LANL	In Progress	
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.	

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				69553				69615			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
12/06/14	133	593	11909	3337								
12/07/14	124	556	11892	3398								
12/08/14	135	496	11250	3145	164	503	16782	2390	106	276	6283	304

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
12/06/14												
12/07/14												
12/08/14	334	843	21506	4440	501	869	19749	2644	644	790	18735	3131

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
12/06/14	2294	431	38224	842
12/07/14	2304	416	40170	875
12/08/14	2237	440	38393	882

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

6.[6] Date: From 12-1-14 to 12-7-14

	Monday 6.[6] Start Time: <u>0821</u>	Tuesday 6.[6] Start Time: <u>0918</u>	Wednesday 6.[6] Start Time: <u>0918</u>	Thursday 6.[6] Start Time: <u>0910</u>	Friday 6.[6] Start Time: <u>0816</u>	Saturday 6.[6] Start Time: <u>0759</u>	Sunday 6.[6] Start Time: <u>0803</u>
TA-54-231							
Calibrated Infrared Thermometer (4.2.1 [1] [B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>101974</u>
Ambient Temperature (6.7))	<u>38.6</u> °F	<u>37.3</u> °F	<u>40.6</u> °F	<u>44.8</u> °F	<u>39.9</u> °F	<u>43.5</u> °F	<u>41.5</u> °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	<u>39.3</u>	<u>38.9</u>	<u>42.2</u>	<u>45.6</u>	<u>41.0</u>	<u>44.3</u>	<u>42.0</u>
S802833	<u>38.9</u>	<u>37.7</u>	<u>41.8</u>	<u>44.6</u>	<u>39.8</u>	<u>43.3</u>	<u>41.3</u>
S801676	<u>38.5</u>	<u>37.8</u>	<u>41.0</u>	<u>43.0</u>	<u>39.6</u>	<u>43.0</u>	<u>41.3</u>
S816810	<u>36.7</u>	<u>35.8</u>	<u>39.5</u>	<u>42.1</u>	<u>37.4</u>	<u>41.5</u>	<u>39.2</u>
70069	<u>36.4</u>	<u>35.5</u>	<u>39.3</u>	<u>41.1</u>	<u>37.4</u>	<u>41.1</u>	<u>38.6</u>
S822844	<u>36.6</u>	<u>35.8</u>	<u>39.6</u>	<u>43.8</u>	<u>37.8</u>	<u>41.4</u>	<u>38.7</u>
S825879	<u>36.5</u>	<u>35.7</u>	<u>39.9</u>	<u>42.1</u>	<u>35.0</u>	<u>41.3</u>	<u>38.8</u>
S793724	<u>36.9</u>	<u>36.0</u>	<u>39.7</u>	<u>41.7</u>	<u>32.9</u> <u>37.9</u>	<u>41.6</u>	<u>39.1</u>
S813545	<u>36.8</u>	<u>36.3</u>	<u>39.6</u>	<u>42.0</u>	<u>37.9</u>	<u>41.6</u>	<u>39.3</u>
S822713	<u>38.4</u>	<u>37.5</u>	<u>41.7</u>	<u>43.4</u>	<u>39.6</u>	<u>43.1</u>	<u>40.8</u>
S802739	<u>38.6</u>	<u>37.6</u>	<u>42.2</u>	<u>43.7</u>	<u>39.6</u>	<u>43.2</u>	<u>41.0</u>
69907	<u>38.7</u>	<u>37.7</u>	<u>41.6</u>	<u>43.4</u>	<u>39.9</u>	<u>43.1</u>	<u>41.8</u>
S804995	<u>39.4</u>	<u>38.0</u>	<u>41.7</u>	<u>43.7</u>	<u>40.0</u>	<u>43.8</u>	<u>41.4</u>
S816434	<u>40.3</u>	<u>39.5</u>	<u>43.3</u>	<u>45.1</u>	<u>41.5</u>	<u>44.9</u>	<u>42.9</u>

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6.[6] Date: From 12-1-14 to 12-7-14

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	40.2	38.7	43.4	45.0	40.9	44.9	42.4
S862888	39.5	38.1	42.3	44.0	41.2	43.9	41.9
70072	38.7	37.8	41.6	44.2	40.1	43.5	41.3
S823184	39.1	37.9	42.1	44.0	40.1	43.6	40.7
S822599	38.3	37.5	41.7	42.4	39.4	43.0	40.2
69904	37.5	36.5	40.0	41.1	38.6	42.1	39.8
S805051	37.2	36.2	40.2	41.0	38.2	41.6	39.4
S864213	37.1	36.0	41.1	41.5	38.2	41.7	39.3
S853714	36.9	36.3	40.6	40.1	37.7	41.6	38.9
S803078	37.0	36.4	40.8	43.1	37.8	41.7	39.0
S825878	37.3	36.6	42.5	42.0	38.2	42.0	39.2
S823124	37.5	36.8	42.4	41.8	38.4	41.9	39.4
S804948	39.3	38.2	42.4	43.1	40.3	43.5	41.5
S813385	39.6	38.7	43.8	43.7	40.5	43.8	41.7
S842446	41.1	40.2		44.7	42.0	45.2	43.3
Ambient Temperature (6.[12])	39.0 °F	38.1 °F	42.3 °F	42.1 °F	40.1 °F	43.4 °F	40.7 °F
End Time (6.[13])	0827	0925	0917	0917	0823	0805	0808
6.[13]	Operator: JR Operator: EC	Operator: JR Operator: JR	Operator: JR Operator: JR	Operator: JR Operator: JR	Operator: JR Operator: EC	Operator: JR Operator: EC	Operator: JR Operator: EC

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6.[6] Date: From 12-1-14 to 12-7-14

6.[2] Comments: _____

6.[17] Performed by:

Jackie Romero	Jackie Romero	1187066	JK	12-1-14
Operator (print)	Signature	Z#	Initials	Date
Eliot D. Cordova	Eliot D.	1114188	EC	12-1-14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	Josephine	1151971	PL	12-2-14
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	Alfredo	1293128	AB	12-2-14
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	Alfredo	1293128	AB	12-3-14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	Josephine	1151971	PL	12-04-14
Operator (print)	Signature	Z#	Initials	Date

Alfredo Aguilar	Alfredo	1293128	AB	12-4-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JK	12-5-14
Operator (print)	Signature	Z#	Initials	Date
Eliot D. Cordova	Eliot D.	1114188	EC	12-5-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JK	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Eliot D. Cordova	Eliot D.	1114188	EC	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JK	12-7-14
Operator (print)	Signature	Z#	Initials	Date
Eliot D. Cordova	Eliot D.	1114188	EC	12-7-14
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[6] Date: From 12-1-14 to 12-7-14

		Monday 6.[6] Start Time: <u>1014</u>	Tuesday 6.[6] Start Time: <u>1136</u>	Wednesday 6.[6] Start Time: <u>1633</u>	Thursday 6.[6] Start Time: <u>1103</u>	Friday 6.[6] Start Time: <u>0729</u>	Saturday 6.[6] Start Time: <u>0720</u>	Sunday 6.[6] Start Time: <u>0733</u>
TA-54-375 Cell 1								
Calibrated Infrared Thermometer (4.2.1[1][B])		Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>
Ambient Temperature (6.[7])		<u>52.4</u> °F	<u>51.5</u> °F	<u>52.3</u> °F	<u>51.5</u> °F	<u>50.3</u> °F	<u>50.2</u> °F	<u>50.7</u> °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])
IPC-1 LA00000070503	68685	<u>54.3</u>	<u>53.4</u>	<u>55.0</u>	<u>53.2</u>	<u>52.2</u>	<u>52.6</u>	<u>52.9</u>
	68540	<u>55.7</u>	<u>54.0</u>	<u>54.8</u>	<u>53.8</u>	<u>52.5</u>	<u>52.9</u>	<u>52.4</u>
	68553	<u>55.7</u>	<u>54.0</u>	<u>55.2</u>	<u>53.5</u>	<u>52.2</u>	<u>51.9</u>	<u>52.3</u>
	69445	<u>55.6</u>	<u>53.7</u>	<u>54.9</u>	<u>53.7</u>	<u>52.2</u>	<u>52.3</u>	<u>52.8</u>
	69618	<u>55.5</u>	<u>53.0</u>	<u>54.4</u>	<u>53.2</u>	<u>51.2</u>	<u>52.2</u>	<u>51.5</u>
	69013	<u>55.2</u>	<u>53.9</u>	<u>55.0</u>	<u>54.3</u>	<u>52.9</u>	<u>53.0</u>	<u>53.0</u>
	LASB50522	<u>56.6</u>	<u>54.5</u>	<u>55.6</u>	<u>54.1</u>	<u>53.5</u>	<u>54.0</u>	<u>54.3</u>
	LASB50452	<u>56.2</u>	<u>55.0</u>	<u>55.9</u>	<u>54.4</u>	<u>53.5</u>	<u>53.2</u>	<u>53.6</u>
	LASB50431	<u>56.5</u>	<u>55.0</u>	<u>55.2</u>	<u>54.5</u>	<u>54.4</u>	<u>53.3</u>	<u>54.4</u>
	LASB50069	<u>54.9</u>	<u>54.0</u>	<u>55.5</u>	<u>54.0</u>	<u>53.1</u>	<u>52.7</u>	<u>53.6</u>
	LASB50073	<u>54.8</u>	<u>54.3</u>	<u>55.8</u>	<u>54.4</u>	<u>53.8</u>	<u>53.5</u>	<u>53.8</u>
	69636	<u>55.6</u>	<u>54.7</u>	<u>55.6</u>	<u>54.0</u>	<u>54.3</u>	<u>53.8</u>	<u>54.5</u>
	69616	<u>55.3</u>	<u>54.6</u>	<u>56.5</u>	<u>53.9</u>	<u>54.7</u>	<u>53.6</u>	<u>54.1</u>
	69417	<u>56.3</u>	<u>54.7</u>	<u>55.9</u>	<u>55.2</u>	<u>54.0</u>	<u>54.0</u>	<u>54.5</u>

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6.[6] Date: From 12-1-14 to 12-7-14

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 1 (continued)							
69620	55.3	54.9	55.9	54.5	53.5	54.0	54.1
69520	56.0	55.0	56.0	55.0	53.8	53.6	54.3
69641	56.2	55.4	56.2	55.2	54.3	54.2	54.6
69298	56.4	55.5	56.2	55.1	54.4	54.2	54.4
LASB02203	55.0	55.1	55.9	54.8	54.2	53.6	54.4
Ambient Temperature (6.[12])	53.0 °F	49.9 °F	53.7 °F	52.1 °F	50.0 °F	50.8 °F	50.2 °F
End Time (6.[13])	1019	1137	1037	1108	0733	0722	0735
6.[13]	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>LB</u>	Operator: <u>EP</u>	Operator: <u>LB</u>
	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>SV</u>	Operator: <u>NS</u>	Operator: <u>TS</u>	Operator: <u>NS</u>

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6.[6] Date: From 12-1-14 to 12-7-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		1236382	TV	12/1/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116598	JL	12/1/14
Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		1236382	TV	12/2/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116598	JL	12/2/14
Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		1236382	TV	12/3/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116598	JL	12/3/14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran		1151971	JD	12/4/14
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116598	JL	12/4/14
Operator (print)	Signature	Z#	Initials	Date
Edward Pichero		100497	EP	12-5-14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito		116405	LB	12-5-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		1187818	NS	12/5/14
Operator (print)	Signature	Z#	Initials	Date
Edward Pichero		100497	EP	12/6/14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera		1235765	PM	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito		116405	LB	12-7-14
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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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 12-1-14 to 12-7-14

	Monday 6.[6] Start Time: <u>1020</u>	Tuesday 6.[6] Start Time: <u>1138</u>	Wednesday 6.[6] Start Time: <u>1038</u>	Thursday 6.[6] Start Time: <u>1111</u>	Friday 6.[6] Start Time: <u>0735</u>	Saturday 6.[6] Start Time: <u>0723</u>	Sunday 6.[6] Start Time: <u>0737</u>
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>
Ambient Temperature (6.[7])	<u>55.9</u> °F	<u>55.6</u> °F	<u>56.3</u> °F	<u>54.1</u> °F	<u>53.9</u> °F	<u>56.6</u> °F	<u>56.4</u> °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	<u>55.6</u>	<u>55.7</u>	<u>56.4</u>	<u>55.0</u>	<u>54.1</u>	<u>57.7</u>	<u>56.4</u>
68638	<u>56.7</u>	<u>56.0</u>	<u>56.7</u>	<u>55.0</u>	<u>54.4</u>	<u>56.5</u>	<u>56.0</u>
69615	<u>57.1</u>	<u>56.0</u>	<u>57.3</u>	<u>54.9</u>	<u>54.9</u>	<u>56.0</u>	<u>56.0</u>
69635	<u>57.5</u>	<u>56.7</u>	<u>57.9</u>	<u>55.4</u>	<u>55.5</u>	<u>57.7</u>	<u>56.4</u>
69642	<u>56.8</u>	<u>55.7</u>	<u>56.8</u>	<u>54.2</u>	<u>54.1</u>	<u>56.0</u>	<u>55.3</u>
69630	<u>56.8</u>	<u>55.8</u>	<u>57.0</u>	<u>55.2</u>	<u>54.4</u>	<u>56.3</u>	<u>55.3</u>
69633	<u>57.3</u>	<u>56.3</u>	<u>57.4</u>	<u>55.4</u>	<u>54.9</u>	<u>57.2</u>	<u>57.0</u>
68430	<u>57.0</u>	<u>56.1</u>	<u>57.1</u>	<u>54.9</u>	<u>54.7</u>	<u>56.3</u>	<u>55.6</u>
68631	<u>56.6</u>	<u>55.8</u>	<u>56.9</u>	<u>55.0</u>	<u>53.9</u>	<u>55.8</u>	<u>55.7</u>
69634	<u>56.8</u>	<u>57.0</u>	<u>57.4</u>	<u>55.6</u>	<u>54.2</u>	<u>56.7</u>	<u>56.0</u>
68567	<u>56.0</u>	<u>55.4</u>	<u>55.9</u>	<u>54.3</u>	<u>54.5</u>	<u>57.5</u>	<u>55.7</u>
94227	<u>56.8</u>	<u>56.3</u>	<u>56.2</u>	<u>55.0</u>	<u>54.5</u>	<u>57.0</u>	<u>56.1</u>
LASB50442	<u>57.0</u>	<u>56.3</u>	<u>57.1</u>	<u>55.0</u>	<u>55.8</u>	<u>56.9</u>	<u>56.5</u>
69644	<u>58.8</u>	<u>56.5</u>	<u>57.1</u>	<u>55.0</u>	<u>55.6</u>	<u>57.1</u>	<u>56.8</u>
LASB50443	<u>57.0</u>	<u>55.8</u>	<u>56.5</u>	<u>54.9</u>	<u>54.5</u>	<u>56.1</u>	<u>55.5</u>
69638	<u>57.4</u>	<u>56.6</u>	<u>57.7</u>	<u>55.9</u>	<u>54.7</u>	<u>57.4</u>	<u>56.6</u>

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6.[6] Date: From 12-1-14 to 12-7-14

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	57.3	57.5	59.1	55.6	55.2	57.6	56.6
68507	57.6	57.1	57.6	55.7	55.9	57.8	57.2
69568	56.6	56.2	56.7	54.8	55.3	57.1	56.6
69553	56.6	55.4	56.0	54.3	54.2	56.3	55.5
69598	58.3	57.2	57.9	55.9	54.8	57.0	56.6
LASB50559	58.3	57.4	58.1	56.3	55.4	57.3	57.4
69015	58.2	57.4	58.8	55.4	56.3	58.0	58.0
69639	56.9	56.2	56.7	54.8	56.5	58.4	58.3
69637	56.9	55.5	55.8	54.7	55.8	58.1	57.7
Ambient Temperature (6.[12])	55.8 °F	59.0 °F	56.5 °F	53.9 °F	54.8 °F	56.7 °F	55.5 °F
End Time (6.[13])	1028	1144	1045	1114	0741	0728	0741
6.[13]	Operator: <u>TL</u> Operator: <u>TL</u>	Operator: <u>TL</u> Operator: <u>TL</u>	Operator: <u>TL</u> Operator: <u>TL</u>	Operator: <u>TL</u> Operator: <u>TL</u>	Operator: <u>TL</u> Operator: <u>NS</u>	Operator: <u>TL</u> Operator: <u>TL</u>	Operator: <u>TL</u> Operator: <u>NS</u>

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6.[6] Date: From 12-1-14 to 12-7-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS KIST	[Signature]	1236382	TK	12/1/14
Joshua Lopez	[Signature]	116578	JL	12/01/14
THOMAS KIST	[Signature]	1236382	TK	12/2/14
Joshua Lopez	[Signature]	116578	JL	12/2/14
THOMAS KIST	[Signature]	1236382	TK	12/3/14
Joshua Lopez	[Signature]	116578	JL	12/03/14
Josephine Duran	[Signature]	157921	JD	12/04/14

Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez	[Signature]	116578	JL	12/04/14
Edward Pacheco	[Signature]	100497	EP	12-5-14
Juan Garcia	[Signature]	1169840	JG	12-5-14
Norman Sanchez	[Signature]	118984	NS	12/5/14
Edward Pacheco	[Signature]	100497	EP	12/6/14
Pancho Miera	[Signature]	123576	PM	12-6-14
Larry Brito	[Signature]	116405	LB	12-7-14

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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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 12-1-14 to 12-7-14

	Monday 6.[6] Start Time: <u>1009</u>	Tuesday 6.[6] Start Time: <u>1123</u>	Wednesday 6.[6] Start Time: <u>1027</u>	Thursday 6.[6] Start Time: <u>1118</u>	Friday 6.[6] Start Time: <u>0723</u>	Saturday 6.[6] Start Time: <u>0715</u>	Sunday 6.[6] Start Time: <u>0728</u>
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>	Brand: <u>Fluke</u> Model: <u>S61</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101916</u>
Ambient Temperature (6.[7])	<u>54.7</u> °F	<u>53.7</u> °F	<u>55.0</u> °F	<u>54.4</u> °F	<u>53.6</u> °F	<u>53.9</u> °F	<u>53.9</u> °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	<u>56.4</u>	<u>56.8</u>	<u>56.8</u>	<u>56.0</u>	<u>55.0</u>	<u>56.2</u>	<u>55.9</u>
69645	<u>56.5</u>	<u>55.8</u>	<u>56.9</u>	<u>56.2</u>	<u>55.1</u>	<u>56.4</u>	<u>55.6</u>
94068	<u>56.1</u>	<u>55.6</u>	<u>56.4</u>	<u>55.8</u>	<u>54.8</u>	<u>55.8</u>	<u>55.4</u>
93605	<u>56.1</u>	<u>55.2</u>	<u>56.2</u>	<u>55.8</u>	<u>54.5</u>	<u>55.2</u>	<u>54.9</u> <u>28</u> 12-7-14
69548	<u>55.6</u>	<u>55.1</u>	<u>56.2</u>	<u>55.7</u>	<u>54.3</u>	<u>55.1</u>	<u>54.6</u> <u>54.6</u>
69604	<u>56.0</u>	<u>55.1</u>	<u>56.3</u>	<u>55.7</u>	<u>54.6</u>	<u>55.6</u>	<u>55.2</u>
LASB50529	<u>56.1</u>	<u>55.9</u>	<u>56.5</u>	<u>56.2</u>	<u>55.3</u>	<u>55.7</u>	<u>55.3</u>
LASB50418	<u>56.2</u>	<u>55.6</u>	<u>57.0</u>	<u>55.7</u>	<u>54.7</u>	<u>55.8</u>	<u>54.6</u> <u>28</u> 12-7-14
69036	<u>55.9</u>	<u>55.1</u>	<u>56.5</u>	<u>55.9</u>	<u>54.3</u>	<u>55.4</u>	<u>55.0</u> <u>55.0</u>
LASB50451	<u>56.0</u>	<u>54.6</u>	<u>56.0</u>	<u>55.1</u>	<u>54.3</u> <u>54.3</u>	<u>55.2</u>	<u>54.6</u>
69559	<u>56.1</u>	<u>54.9</u>	<u>56.0</u>	<u>55.3</u>	<u>54.2</u>	<u>55.4</u>	<u>54.7</u>
LASB50448	<u>55.6</u>	<u>54.4</u>	<u>55.5</u>	<u>54.8</u>	<u>54.9</u>	<u>54.8</u>	<u>54.6</u>
Ambient Temperature (6.[12])	<u>55.5</u> °F	<u>53.7</u> °F	<u>55.0</u> °F	<u>54.0</u> °F	<u>53.5</u> °F	<u>54.2</u> °F	<u>53.9</u> °F
End Time (6.[13])	<u>1013</u>	<u>1128</u>	<u>1032</u>	<u>1129</u>	<u>0727</u>	<u>0718</u>	<u>0731</u>
6.[13]	Operator: <u>fr</u> Operator: <u>fr</u>	Operator: <u>fr</u> Operator: <u>fr</u>	Operator: <u>fr</u> Operator: <u>fr</u>	Operator: <u>fr</u> Operator: <u>fr</u>	Operator: <u>fr</u> Operator: <u>NS</u>	Operator: <u>fr</u> Operator: <u>fr</u>	Operator: <u>fr</u> Operator: <u>NS</u>

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6.[6] Date: From 12-1-14 to 12-7-14

6.[2] Comments:

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		173682	TV	12/1/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116581	JL	12/01/14
Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		173682	TV	12/2/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116581	JL	12/02/14
Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		173682	TV	12/3/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116581	JL	12/03/14
Operator (print)	Signature	Z#	Initials	Date
Joseph Duran		115971	PD	12/04/14
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116581	JL	12/04/14
Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco		100497	EP	12/5/14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		1187818	NS	12/5/14
Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco		100497	EP	12/6/14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera		123565	PM	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito		116405	LB	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		1187818	NS	12/7/14
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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ATTACHMENT 6

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

[illegible]

INITIAL SC DATE 12-5-14

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6.[6] Date: From 12-5-14 to 12-5-14 Location: Room 375 cell 1

[illegible]

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201458
William Turner

6.[6] Date: From 12-5-14 to 12-5-14 Location: Dome 375 cell

6.[2] Comments: Did not enter permecon due to spanding order 1246. PZ all temps
were taken from data logger computer in Control Room in Dome 375

W
A

6.[17] Performed by:

<u>William Turner</u>	<u>William Turner</u>	<u>201458</u>	<u>W</u>	<u>12-5-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jane Chan</u>	<u>Jane Chan</u>	<u>174583</u>	<u>J</u>	<u>12-5-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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[illegible]

DATE 12-5-14

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6.[6] Date: From 12-5-14 to 12-6-14

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])	Temp (°F) (6.[8]/6.[9])
Ambient Temperature (6.[12])	52.27 °F	52.49 °F	52.14 °F	51.46 °F	51.48 °F	51.85 °F	52.01 °F	52.63 °F	51.20 °F	51.15 °F	50.89 °F	51.81 °F			
End Time (6.[13])	1827	1930	2031	2132	2230	2331	0032	0129	0228	0332	0431	0527			
6.[13]	Operator: WJC Operator: GE	Operator: WJC Operator: GE	Operator: WJC Operator: GE	Operator: CE Operator: MV	Operator: CE Operator: MV	Operator: CE Operator: MV	Operator: CE Operator: MV	Operator: CE Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: N Operator:	Operator: A Operator:	

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6.[6] Date: From 12-5-14 to 12-6-14 Location: Dome 375

6.[2] Comments: Did not enter Permacore Per Standing Order 1247 Rev 2. All Temps are taken from Dome 375 Control Room from Data Logger.

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willie S. Barber		112801	CS	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Chris Vigil		163082	CR	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Michael Vigil		215007	MV	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Caral Espinoza		112097	CE	12-6-14
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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6.[6] Date: From 12-6-14 to 12-6-14 Location: Dorm 375 Cell 1

[illegible]

Z# 114188

Z# 119100
INITIAL EC

DATE 12-6-14

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6.[6] Date: From 12-6-14 to 12-6-14 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.[12])	52.30 °F	48.96 °F	52.57 °F	50.15 °F	52.49 °F	52.63 °F	54.08 °F	53.96 °F	54.58 °F	54.16 °F	53.67 °F	53.02 °F		
End Time (6.[13])	0629	0732	0826	0929	1028	1131	1229	1325	1426	1526	1629	1727		
6.[13]	Operator: TP Operator:	Operator: EP Operator: LB	Operator: DS Operator: EP	Operator: EP Operator:	Operator: EP Operator:	Operator: EP Operator: TP	Operator: EP Operator: TP	Operator: EP Operator: TP	Operator: TP Operator:	Operator: EP Operator: LB	Operator: LB Operator:	Operator: LB Operator:	Operator:	Operator:

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6.16] Date: From 12-6-14 to 12-6-14 Location: Dome 375 Cell 1

6.12] Comments: Did not enter permecon due to standing order area g 1247 Rev. 2 all Temps were taken using the Data Logger. Dome 375

NA

6.17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Edward Parker</u>	<u>[Signature]</u>	<u>100497</u>	<u>EP</u>	<u>12-6-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Pancho Miera</u>	<u>[Signature]</u>	<u>123765</u>	<u>PM</u>	<u>12-6-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Larry Brito</u>	<u>[Signature]</u>	<u>116405</u>	<u>LB</u>	<u>12-6-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>[Signature]</u>	<u>116840</u>	<u>JA</u>	<u>12-6-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>NA</u>				
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.12] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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6.[6] Date: From 12-6-14 to 12-7-14 Location: Dome 375 Cell 11

	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1)(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])	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])
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])
68155T1	52.72	52.43	52.18	52.52	52.11	53.97	51.91	53.98	53.07	52.63	53.17	52.25		
68655T2	52.14	51.93	51.67	52.98	51.52	53.41	51.23	53.39	52.63	51.84	52.53	51.67		
50522T4	52.96	52.75	52.5	52.87	52.51	53.67	52.39	53.67	52.95	52.86	53.02	52.37	N	A
50522T5	52.87	52.66	52.43	52.84	52.38	53.54	52.2	53.54	52.86	52.66	52.87	52.22		

Z# 114158

INITIAL 

DATE _____

DATE ~~12-6-17~~ 12-27-17

Σ 612610

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Location: Dome 375 call

[illegible]

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6.[6] Date: From 12-6-14 to 12-7-14 Location: Dome 375 C111

6.[2] Comments: Did not enter Permacon due to Standing Order Area-6 1247 R2
all Temps were taken Data logger Computer in Dome 375

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
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Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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ATTACHMENT 6
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6.[6] Date: From 12/7/14 to 12/7/14 Location: Dome 375 G/11

[illegible]

Z# 114188

INITIAL EC

DATE 12/7/14

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6.[6] Date: From 12/7/14 to 12/7/14 Location: Dome 375 Cell 1

6.[2] Comments: Did not enter Dome 375 permeation per Sampling order Area 6 1247 R2 Temps taken by Data Logger Computer E.C. 12-7-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	1169840	AG	12-7-14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito	<i>Larry Brito</i>	116605	LB	12-7-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	<i>Norman Sanchez</i>	118788	NS	12-7-14
Operator (print)	Signature	Z#	Initials	Date
/	/	/	/	/
Operator (print)	Signature	Z#	Initials	Date
/	/	/	/	/
Operator (print)	Signature	Z#	Initials	Date
/	/	/	/	/
Operator (print)	Signature	Z#	Initials	Date
/	/	/	/	/
Operator (print)	Signature	Z#	Initials	Date
/	/	/	/	/

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

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
/	/	/	/	/

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6 [6] Date From 12.7.14 to 12.8.14 Location: Dom 375 Cell 1

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Z# 114188

INITIAL SC

DATE 12.7.14

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6.[6] Date: From 12-7-14 to 12-8-14 Location: Down 375 C 111

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])	Temp (°F) (6.[8]/6.[9])
						N/A									
Ambient Temperature (6.[12])	53.33°F	52.81°F	52.28°F	52.23°F	52.05°F	51.33°F	51.27°F	50.38°F	50.61°F	50.97°F	50.77°F	50.92°F			
End Time (6.[13])	1829	1930	2028	2128	2230	2328	0029	0130	0230	0329	0430	0527			
6.[13]	Operator: TR Operator: WXC	Operator: TR Operator: WXC	Operator: WXC Operator: TR	Operator: OB Operator: TR	Operator: OB Operator: TR	Operator: TR Operator: WXC	Operator: TR Operator: WXC	Operator: TR Operator: OB	Operator: WXC Operator: TR	Operator: WXC Operator: TR	Operator: WXC Operator: OB	Operator: WXC Operator: TR	Operator:	Operator:	

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6.[6] Date: From 12-7-14 to 12-8-14 Location: Dome 375

6.[2] Comments: Did not enter permacon per Standing order 1247 R2 All temps
are taken from Data logger in control room in Dome 375

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Sammy Parek</u>	<u>[Signature]</u>	<u>114174</u>	<u>OS</u>	<u>12-8-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Timmy Roman</u>	<u>[Signature]</u>	<u>234253-TR</u>		<u>12-8-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
	<u>N/A</u>			
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

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

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
<u>GARY E. Mally</u>	<u>[Signature]</u>	<u>026235</u>	<u>SEM</u>	<u>12-8-14</u>