

From: Juarez, Catherine L

Sent: Wednesday, December 21, 2016 3:34 PM

To: Siona Briley <siona.briley@state.nm.us>; Ricardo Maestas <ricardo.maestas@state.nm.us>; Greg Lauer <Gregory.Lauer@state.nm.us>; Coleman Smith <coleman.smith@state.nm.us>; Butch Tongate <butch.tongate@state.nm.us>; Cobrain, Dave, NMENV <dave.cobrain@state.nm.us>; Kathryn Roberts <kathryn.roberts@state.nm.us>; Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>

Cc: Maggiore, Peter <peter.maggiore@nnsa.doe.gov>; silas.deroma@nnsa.doe.gov; Cummings, Lisa K <lisa.cummings@nnsa.doe.gov>; Nickless, David J <david.nickless@nnsa.doe.gov>; Pugh, Jody M <jody.pugh@nnsa.doe.gov>; Bishop, Milton L <lee.bishop@em.doe.gov>; Nash, Adrienne Lyn <adrienne.nash@nnsa.doe.gov>; Armijo, Karen <Karen.Armijo@nnsa.doe.gov>; Mairson, William Raymond <wrmairson@lanl.gov>; Torres, Enrique <etorres@lanl.gov>; Woitte, Deborah Kay <dwoitte@lanl.gov>; McMichael, Susan Lynn <smcmichael@lanl.gov>; Brandt, Michael Thomas <mtbrandt@lanl.gov>; Sharp-Geiger, Raeanna Racine <raeanna@lanl.gov>; Grieggs, Tony <grieggst@lanl.gov>; Bacigalupa, Gian A <gian@lanl.gov>; Baumer, Andy <candybaumer@lanl.gov>; Martinez, Saundra <saundra@lanl.gov>; Schreiber, Arleen Thorn <arleen@lanl.gov>; Baldonado, Delilah <delilah@lanl.gov>; Hargis, Kenneth Marshall <khargis@lanl.gov>; Cabbil, Cheryl Denise <cabbil@lanl.gov>; Erickson, Randy <rericson@lanl.gov>; Funk, David John <dfj@lanl.gov>; Frederici, Dave <def@lanl.gov>; Robinson, Bruce Alan <robinson@lanl.gov>; McCann, John Phillips <jmccann@lanl.gov>; Tymkowych, John M <jtymkowych@lanl.gov>; Branch, Yvette S <ybranch@lanl.gov>; Guffee, Debi <dguffee@lanl.gov>; Saladen, Michael Thomas <saladen@lanl.gov>; epccat@lanl.gov; Diaz, Tammy <tdiaz@lanl.gov>; Haagenstad, Mark P <mph@lanl.gov>; Martinez, Lydia Emma <lydia@lanl.gov>; Naranjo, Felicia Danielle <felicia@lanl.gov>; Juarez, Catherine L <cjuarez@lanl.gov>; Vigil-Holterman, Luciana R <luciana@lanl.gov>; Martinez, Ellena Isabel <martinezel@lanl.gov>; Martinez, Amanda <amanda_@lanl.gov>

Subject: Monthly Technical Summary November 17, 2016 - December 21, 2016

Linked below is the written monthly technical summary November 17, 2016 – December 21, 2016. Summaries are due the third Wednesday of each month. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order*; the letters from NMED dated July 10, 2014, April 27, 2015, May 8, 2015 , and August 12, 2015 regarding *Modification to May 19, 2014, Administrative Order*; and Section X of the *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 7*, approved on October 17, 2016.

Click on the link below to download the associated file using your web browser.

[NMED monthly written summary December 21, 2016.pdf](#)

Cathy Juarez for
Mark Haagenstad
Environmental Protection Division
RCRA Permitting and Compliance Team Leader
Los Alamos National Security
Los Alamos National Laboratory
Office: (505) 665-2014
Mobile: (505) 699-1733

NMED / LANL Technical Summary

November 17, 2016 – December 21, 2016

Participants:

- New Mexico Environment Department: Neelam Dhawan and Siona Briley.
- LANL – Los Alamos National Security: Mark Haagenstad and Cathy Juarez.

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
 - Remediated nitrate salt-bearing waste containers (56 55-gallon containers, and 4 85 gallon overpacked POCs).
 - All containers remain in the 375 Permacon.
 - Installation of pressure relief devices with supplemental filtration to the eight 55-gallon containers with pipe overpack components was completed after DOE approval on November 23, 2016.
 - Installation occurred the week of December 12, 2016.
- **Monitoring - Daily Temperature**
 - Temperatures are currently below 75 °F.
 - Previous month's temperature data attached.
- **Monitoring – Visual Inspections**
 - No abnormal conditions were observed.
- **Monitoring – headspace gas (HSG)**
 - Containers (SWBs) 68685 and 69490 (formerly overpacked into SB50522) continue daily head space gas (HSG) sample collection.
 - November 16, 2016 – December 20, 2016 HSG data (H₂, CO, CO₂ and N₂O) attached.
 - Other containers:
 - A minimum of once per month HSG sampling is conducted on 55-gallon drums or overpack containers.
 - Through December 20, 2016, LANL has completed HSG sampling for the month on 53 containers.
 - November 16, 2016 – December 20, 2016 HSG data (H₂, CO, CO₂ and N₂O) attached.
- **Additional measures currently underway**
 - Twice-weekly HSG sample collection on 55-gallon drums of remediated nitrate salt-bearing waste.
 - HSG data (H₂, CO, CO₂ and N₂O) attached for November and December 2016.
 - Graphical depictions of HSG data are attached for the two containers required to be sampled daily and the five other containers that are currently sampled twice weekly as additional measures.

- CO₂ values are adjusted by the quantity of CO₂ in the field blank (i.e., the amount of CO₂ in the air when the sample is taken is subtracted from the CO₂ reading within the container). No other adjustments are made to the data.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**
 - Currently, no further movements or re-packaging are occurring.

Other:

- Temporary power outages lasting 5-6 hours have been and will be conducted with the installation of backup generator power at TA-54, Area G, Dome 375 on December 12, 19, 21, and 22, 2016. Routine temperature monitoring and HSG sampling was not impacted and no abnormal measurements occurred. The same is expected during the upcoming outages.
- Monitoring of the RNS containers during the LANL winter closure will continue to be performed as required by the Isolation Plan utilizing the same protocol as during non-closure periods (i.e., personnel onsite who will make entry in the Area G Dome 375 Permacon).
- During installation of the pressure relief device with supplemental filtration on the 8 POCs in standard waste boxes (SWB) headspace gas samples were taken successively from the SWB, 55-gallon drum, and pipe component. As expected and as seen during installation of the pressure relief device with supplemental filtration on other RNS containers, the headspace gas concentration showed a step increase as each nested container was sampled. This is reflected in the attached headspace gas data.

Next Call: Wednesday, January 18, 2017

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 ongoing 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.	<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 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	---	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 and will remain draft.	Closed November 19, 2015 Meeting with NMED-HWB personnel discussed that information in the Technical Assessment Report and the DOE Phase II Investigation Report were sufficient for closure.
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 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 and final path has not yet been determined.	Closed. November 19, 2015 meeting with NMED-HWB personnel.

	Requested Information	Actionee	Status	Completion Date
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	---	Complete November 19, 2015 HSG data modeling report to be included with the LANL Isolation Plan and graphical depictions of HSG data and temperature will be included with monthly submittals starting in December 2015.
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	---	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	---	Complete May 6, 2015
47.	NMED requested the ESS plan for temperature control and sampling once finalized.	LANL	---	Closed November 19, 2015 meeting with NMED-HWB personnel.
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.

	Requested Information	Actionee	Status	Completion Date
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	---	Complete. Discussed during technical meeting on April 16, 2015. Email follow-up on April 20, 2015.
53.	NMED requested the document “TA-55 Cement Fixation Drum Logbook” referenced in the CCP AK document.	LANL	---	Complete. Included with April 24, 2015 Response to Request for Information.
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	---	Complete. Discussed during technical meeting on April 16, 2015.
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	---	Complete April 16, 2015.

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	68685 - 68685				69553 - 69553				69615 - 69615				69616 - 69616				SB50069 - 69208				
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	
11/16/16	289	739	12227	2452																	
11/17/16	293	717	12504	2478	316	1024	19823	2512	230	895	14956	787	297	945	14949	2330	1046	2149	37621	4539	
11/18/16	299	720	11955	2431																	
11/19/16	264	666	10934	2253																	
11/20/16	268	609	10305	2158																	
11/21/16	260	654	11064	2221	300	995	18542	2331	288	874	14684	834	391	905	14551	2244	905	1723	32667	3910	
11/22/16	301	673	11331	2288																	
11/23/16	191	510	7416	1510	296	929	17776	2200	270	777	13641	773	385	882	14113	2204	976	1923	32415	3957	
11/24/16	310	663	10751	2203																	
11/25/16	288	643	9630	1948																	
11/26/16	318	681	10259	2120																	
11/27/16	304	654	9783	1937																	
11/28/16	297	607	9554	1927	316	963	17345	2118	272	727	12718	709	283	808	11959	1814	1056	1981	31169	3712	
11/29/16	301	653	9169	1863																	
11/30/16	296	614	8825	1833																	
12/01/16	274	597	8354	1759	300	924	15517	1846	269	738	11587	629	205	758	9900	1502	1044	1888	27156	3271	
12/02/16	176	478	6386	1267																	
12/03/16	296	604	8864	1708																	
12/04/16	249	558	8075	1560																	
12/05/16	267	616	8916	1685	332	933	17416	2028	287	750	13423	699	325	787	12632	1789	1139	2036	33053	3535	
12/06/16	202	406	8551	1609																	
12/07/16	292	679	9763	1844																	
12/08/16	312	635	9858	1833	314	918	16882	1988	286	796	13823	694	305	876	12774	1859	1075	2102	33164	3613	
12/09/16	296	586	9328	1819																	
12/10/16	176	399	5317	996																	
12/11/16	173	321	4452	867																	
12/12/16	236	576	7663	1453	318	947	17632	2038	290	842	14811	755	357	936	14094	2062	941	2085	34085	3794	
12/13/16	249	670	9051	1747																	
12/14/16	214	526	7593	1472																	
12/15/16	292	651	10144	1932	334	964	18504	2223	291	906	15240	771	58	380	5640	824	1062	2191	36313	4148	
12/16/16	322	707	10861	2073																	
12/17/16	312	697	10589	2023																	
12/18/16	93	244	3637	728																	
12/19/16	309	710	10478	2058	322	986	19109	2308	283	856	15524	824	389	1023	15253	2268	1103	2284	37325	4549	
12/20/16	221	525	6790	1409																	

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452 - 69076				SB50522 - 69490				68430				68507				70503 - 68540				
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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	
11/16/16					908	1528	18793	3976													
11/17/16	426	1146	16627	2372	757	1462	17936	3758													
11/18/16					868	1440	17583	3732													
11/19/16					655	1115	13226	2793													
11/20/16					889	1467	17213	3624													
11/21/16	470	902	15179	2129	870	1446	17021	3577													
11/22/16					889	1442	17075	3622													
11/23/16	462	1073	15313	2199	844	1378	16097	3420													
11/24/16					901	1442	16918	3568													
11/25/16					268	481	4873	1075													
11/26/16					910	1469	16545	3498													
11/27/16					114	142	2102	450													
11/28/16	354	838	11409	1643	886	1409	15617	3288													
11/29/16					555	945	10068	2087													
11/30/16					865	1346	14752	3116													
12/01/16	137	720	9575	1326	835	1353	14219	2971													
12/02/16					882	1324	14410	3033													
12/03/16					938	1398	15501	3231													
12/04/16					795	1261	13046	2689													
12/05/16	507	1098	14291	1949	810	1349	14841	3069													
12/06/16					862	1349	14851	3093										16	0	597	0
12/07/16					780	1321	14857	3161													
12/08/16					908	1430	15287	3239													
12/09/16					885	1362	15760	3370													
12/10/16	316	947	12726	1777	546	1169	13231	2842													
12/11/16					911	1482	15792	3380													
12/12/16	497	1089	15095	2124	226	606	5872	1260	203	316	3507	748	79	0	934	67					
12/13/16					887	1440	15638	3422	210	296	3666	746									
12/14/16					728	1403	16260	3570	910	1678	25437	5375	266	388	4934	291					
12/15/16	476	1177	15829	2254	781	1475	16098	3503	2041	3670	60267	12029	735	975	13521	731					
12/16/16					454	828	9159	2001													
12/17/16					898	1508	17169	3763													
12/18/16					916	1494	17263	3831													
12/19/16	297	865	11601	1754	875	1480	17309	3828													
12/20/16					803	1535	17463	3889													

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	70503 - 68553				68567 - 68567				68624 - 68624				68631 - 68631				68638 - 68638					
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm		
11/16/16					34	71	1522	159														
11/17/16																						
11/18/16																						
11/19/16																						
11/20/16																						
11/21/16																						
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12/03/16																						
12/04/16																						
12/05/16	41	103	1598	136																		
12/06/16	56	102	1629	146																		
12/07/16																						
12/08/16																						
12/09/16																						
12/10/16																						
12/11/16																						
12/12/16																						
12/13/16									49	100	1653	257										
12/14/16														13	26	979	60	14	0	686	27	
12/15/16																						
12/16/16																						
12/17/16																						
12/18/16																						
12/19/16																						
12/20/16					33	59	1071	216														

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69013				69015				69036 - 69036				69298 - 69298				69445 - 69445						
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm			
11/16/16																							
11/17/16																							
11/18/16																							
11/19/16																							
11/20/16																							
11/21/16																							
11/22/16									109	0	1004	340											
11/23/16																							
11/24/16																							
11/25/16																							
11/26/16																							
11/27/16																							
11/28/16																							
11/29/16																							
11/30/16																							
12/01/16																							
12/02/16																							
12/03/16																							
12/04/16																							
12/05/16																							
12/06/16	27	0	837	48															257	575	7653	712	
12/07/16																	807	1260	17039	2279			
12/08/16																							
12/09/16																							
12/10/16																							
12/11/16																							
12/12/16	22	0	756	40	33	0	532	36															
12/13/16	33	0	653	39	21	0	858	104															
12/14/16	127	343	4999	260	207	325	4675	522															
12/15/16	396	973	13909	633	427	756	12651	1320															
12/16/16																							
12/17/16																							
12/18/16																							
12/19/16																							
12/20/16																							

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69519				69520				69548 - 69548				69559 - 69559				69568 - 69568						
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm			
11/16/16	292	554	7503	2393																			
11/17/16																							
11/18/16																							
11/19/16																							
11/20/16																							
11/21/16																							
11/22/16									13	0	1459	188	284	865	9444	2825							
11/23/16																							
11/24/16																							
11/25/16																							
11/26/16																							
11/27/16																							
11/28/16																							
11/29/16																							
11/30/16																							
12/01/16																							
12/02/16																							
12/03/16																							
12/04/16																							
12/05/16																							
12/06/16					56	76	1550	529															
12/07/16																							
12/08/16																							
12/09/16																							
12/10/16																							
12/11/16																							
12/12/16					102	151	2055	691															
12/13/16	337	507	6996	2189	108	137	2043	742															
12/14/16	883	1765	29926	8987	318	768	10815	3549										72	258	1212	537		
12/15/16	2445	4911	88801	25202	529	1169	18502	6136															
12/16/16																							
12/17/16																							
12/18/16																							
12/19/16																							
12/20/16																							

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69598				69604				69618 - 69618				69620 - 69620				69630 - 69630						
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm			
11/16/16	33	0	717	25																			
11/17/16																							
11/18/16																							
11/19/16																							
11/20/16																							
11/21/16																							
11/22/16					280	503	6998	2425															
11/23/16																							
11/24/16																							
11/25/16																							
11/26/16																							
11/27/16																							
11/28/16																							
11/29/16																							
11/30/16																							
12/01/16																							
12/02/16																							
12/03/16																							
12/04/16																							
12/05/16																							
12/06/16									171	352	3698	465	338	795	9939	1429							
12/07/16																				420	1121	16968	1422
12/08/16																							
12/09/16																							
12/10/16																							
12/11/16																							
12/12/16	34	0	734	50																			
12/13/16					230	489	6525	2234															
12/14/16	76	0	2977	228	784	1536	27534	9101															
12/15/16	277	444	9421	761	2494	4637	83710	26359															
12/16/16																							
12/17/16																							
12/18/16																							
12/19/16																							
12/20/16																							

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69633 - 69633				69634 - 69634				69635 - 69635				69636 - 69636				69637 - 69637				
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	
11/16/16					128	74	3812	535													
11/17/16																					
11/18/16																					
11/19/16																					
11/20/16																					
11/21/16																					
11/22/16																					
11/23/16																					
11/24/16																					
11/25/16																					
11/26/16																					
11/27/16																					
11/28/16																					
11/29/16																					
11/30/16																					
12/01/16																					
12/02/16																					
12/03/16																					
12/04/16																					
12/05/16																					
12/06/16																					
12/07/16															323	692	10601	1121			
12/08/16																					
12/09/16																					
12/10/16																					
12/11/16																					
12/12/16																					
12/13/16	515	882	12909	1414					230	480	6197	482						207	694	4905	1324
12/14/16																					
12/15/16																					
12/16/16																					
12/17/16																					
12/18/16																					
12/19/16																					
12/20/16					119	74	3049	444													

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69638 - 69638				69639 - 69639				69641 - 69641				69642 - 69642				69644 - 69644						
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm			
11/16/16																							
11/17/16																							
11/18/16																							
11/19/16																							
11/20/16																							
11/21/16																							
11/22/16																							
11/23/16																							
11/24/16																							
11/25/16																							
11/26/16																							
11/27/16																							
11/28/16																							
11/29/16																							
11/30/16																							
12/01/16																							
12/02/16																							
12/03/16																							
12/04/16																							
12/05/16																							
12/06/16									589	1025	8620	2779											
12/07/16																91	229	3422	338				
12/08/16																							
12/09/16																							
12/10/16																							
12/11/16																							
12/12/16																							
12/13/16	532	923	10501	1930	149	427	5546	337												287	548	6675	1250
12/14/16																							
12/15/16																							
12/16/16																							
12/17/16																							
12/18/16																							
12/19/16																							
12/20/16																							

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69645 - 69645				93605 - 93605				94068 - 94068				94227 - 94227				SB02198 - 68408				
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	
11/16/16	168	608	9131	1354	394	998	11997	3545	583	1607	23563	5067					128	263	3869	422	
11/17/16																					
11/18/16																					
11/19/16																					
11/20/16																					
11/21/16																					
11/22/16																					
11/23/16																					
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11/26/16																					
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11/28/16																					
11/29/16																					
11/30/16																					
12/01/16																					
12/02/16																					
12/03/16																					
12/04/16																					
12/05/16																					
12/06/16																					
12/07/16																					
12/08/16																					
12/09/16																					
12/10/16																					
12/11/16																					
12/12/16																					
12/13/16																					
12/14/16														39	0	553	407				
12/15/16																					
12/16/16																					
12/17/16																					
12/18/16																					
12/19/16																					
12/20/16	215	783	11521	1659	393	906	9481	2825	548	1380	20613	4341						132	283	3261	450

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	SB02203 - 92669				SB50073 - 69079				SB50418 - 69595				SB50431 - 69280				SB50442 - 68648						
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm			
11/16/16																							
11/17/16																							
11/18/16																							
11/19/16																							
11/20/16																							
11/21/16																							
11/22/16									223	738	11621	1332											
11/23/16																							
11/24/16																							
11/25/16																							
11/26/16																							
11/27/16																							
11/28/16																							
11/29/16																							
11/30/16																							
12/01/16																							
12/02/16																							
12/03/16																							
12/04/16																							
12/05/16																							
12/06/16																							
12/07/16	55	124	2823	96	823	1434	16760	3539							299	728	11112	1324					
12/08/16																							
12/09/16																							
12/10/16																							
12/11/16																							
12/12/16																							
12/13/16																							
12/14/16																			296	610	7767	1279	
12/15/16																							
12/16/16																							
12/17/16																							
12/18/16																							
12/19/16																							
12/20/16																							

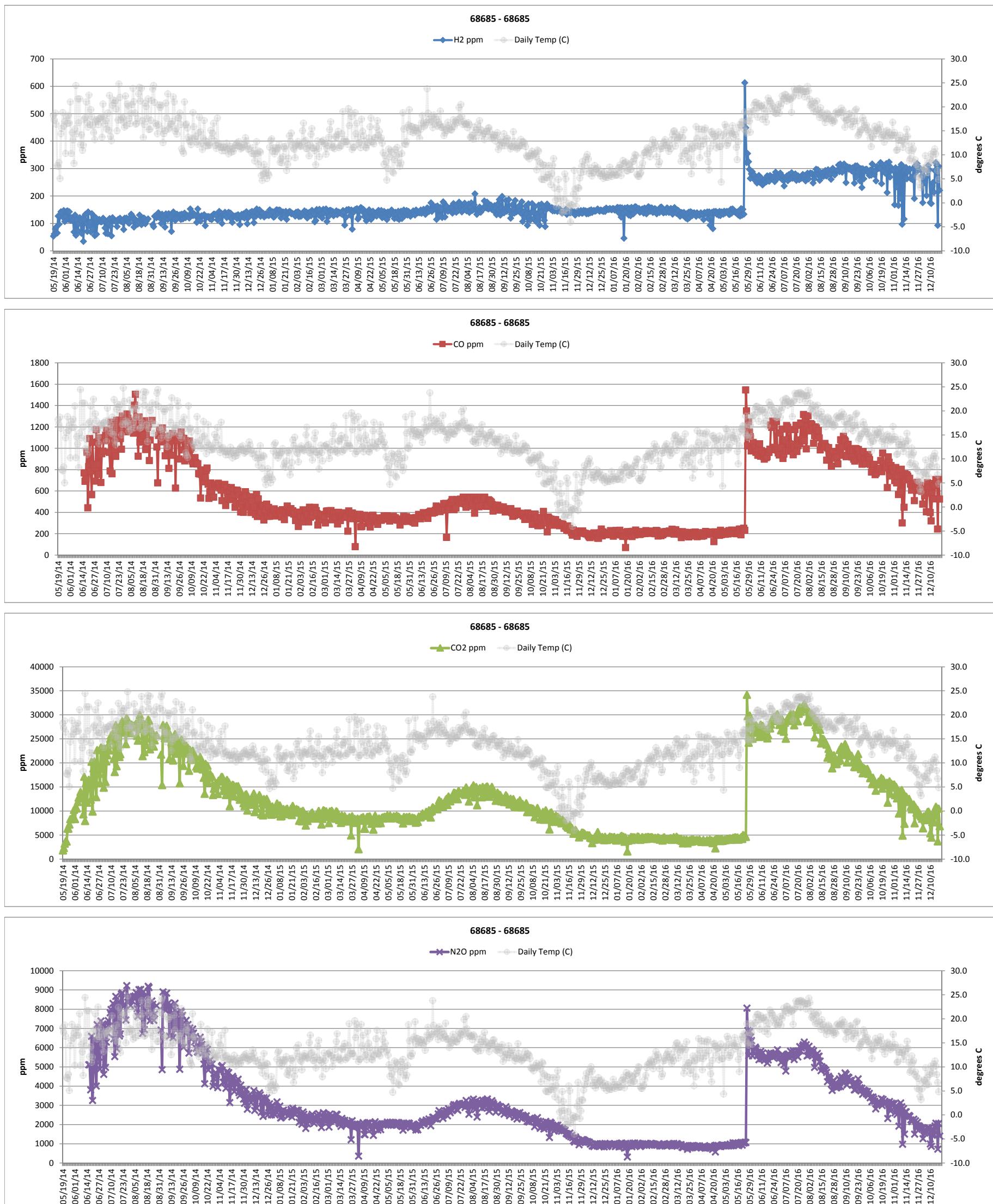
Remediated Nitrate Salt Container Headspace Gas Analysis

Date	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459					
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm		
11/16/16																						
11/17/16																						
11/18/16																						
11/19/16																						
11/20/16																						
11/21/16																						
11/22/16					844	1354	16962	2803	202	529	5967	773	243	595	6936	895						
11/23/16																						
11/24/16																						
11/25/16																						
11/26/16																						
11/27/16																						
11/28/16																						
11/29/16																						
11/30/16																						
12/01/16																						
12/02/16																						
12/03/16																						
12/04/16																						
12/05/16																						
12/06/16																						
12/07/16	698	1159	13217	2428																		
12/08/16																						
12/09/16																						
12/10/16																						
12/11/16																						
12/12/16																						
12/13/16																						
12/14/16																	51	0	2067	36		
12/15/16																						
12/16/16																						
12/17/16																						
12/18/16																						
12/19/16																						
12/20/16																						

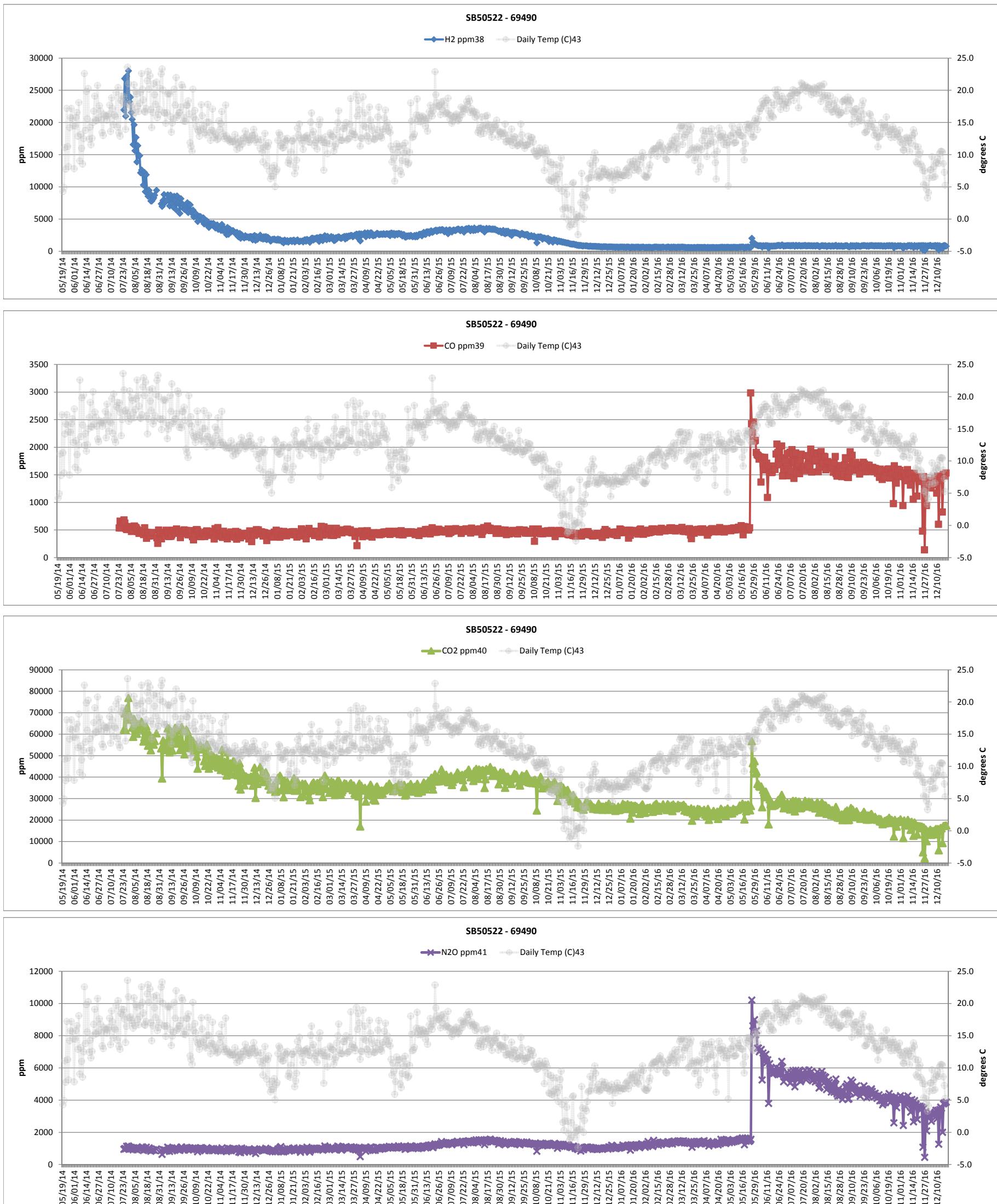
Remediated Nitrate Salt Container Headspace Gas Analysis

Date	SB50559 - 92472				87823				87825				87826				87827					
	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	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm		
11/16/16																						
11/17/16																						
11/18/16																						
11/19/16																						
11/20/16																						
11/21/16																						
11/22/16																						
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11/24/16																						
11/25/16																						
11/26/16																						
11/27/16																						
11/28/16																						
11/29/16																						
11/30/16																						
12/01/16					156	116	2917	595	157	250	4290	837	96	292	5739	979	29	65	2151	286		
12/02/16																						
12/03/16																						
12/04/16																						
12/05/16																						
12/06/16																						
12/07/16																						
12/08/16																						
12/09/16																						
12/10/16																						
12/11/16																						
12/12/16																						
12/13/16																						
12/14/16	75	199	2839	239																		
12/15/16																						
12/16/16																						
12/17/16																						
12/18/16																						
12/19/16																						
12/20/16																						

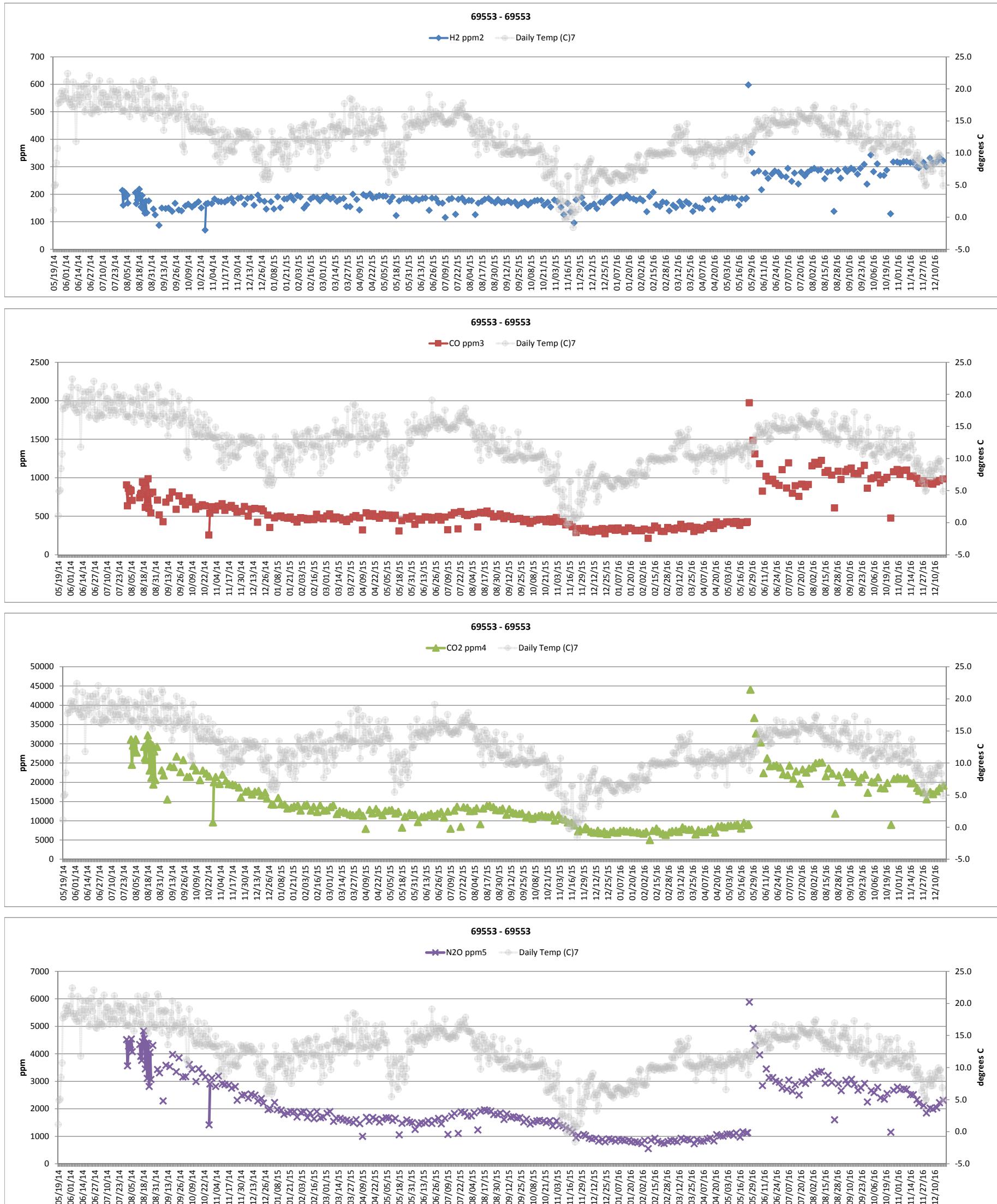
Remediated Nitrate Salt Container Headspace Gas and Temperature



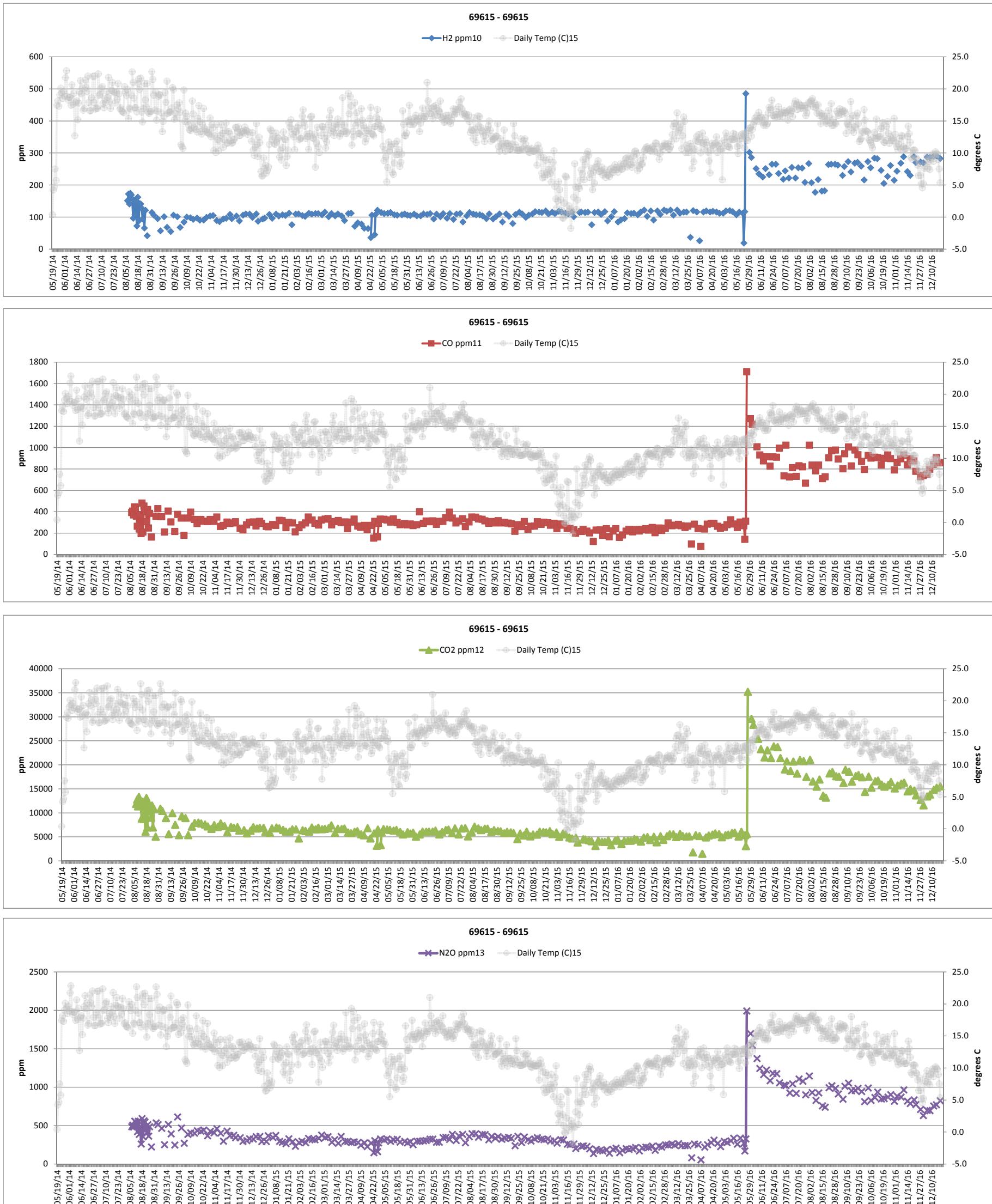
Remediated Nitrate Salt Container Headspace Gas and Temperature



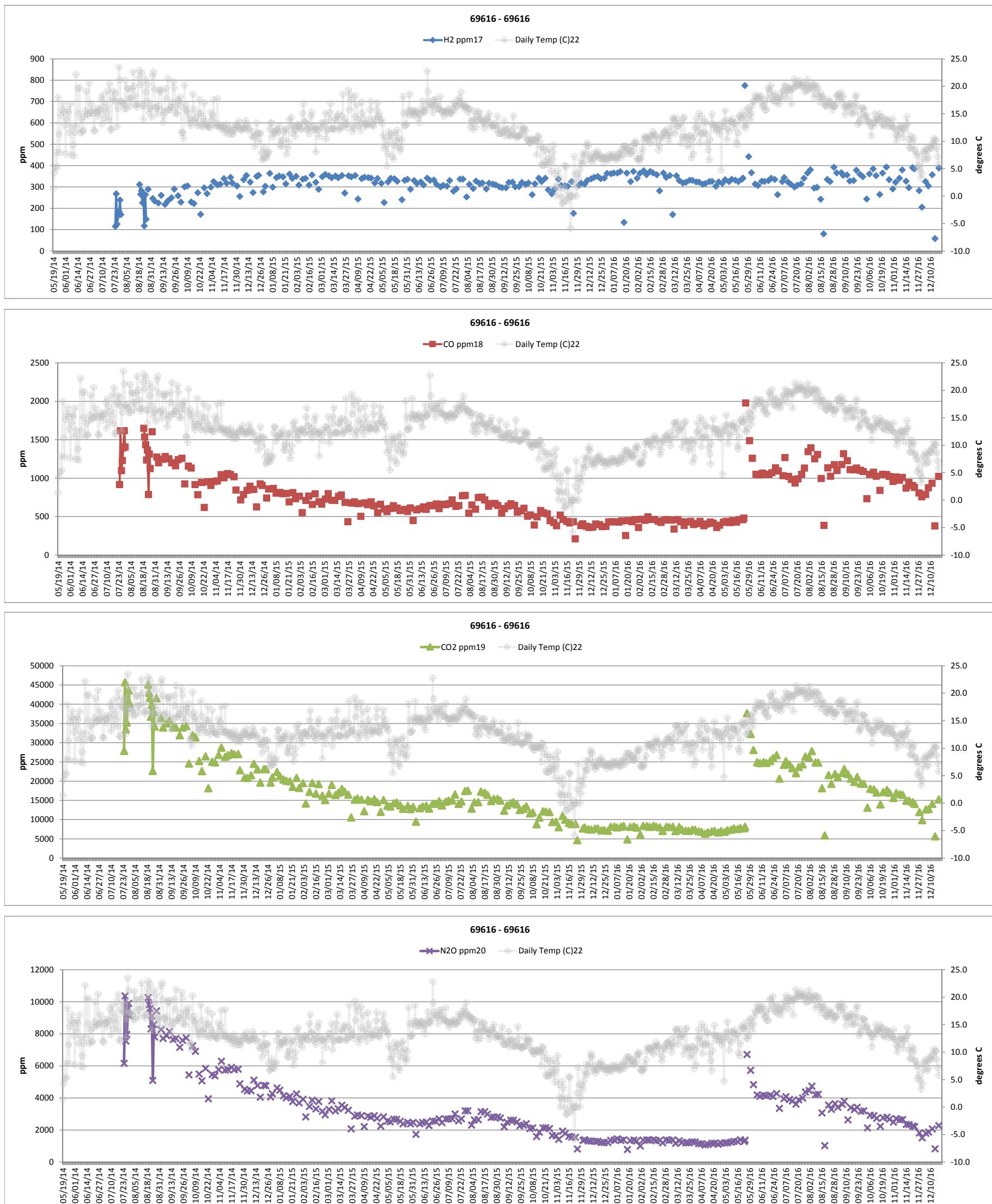
Remediated Nitrate Salt Container Headspace Gas and Temperature



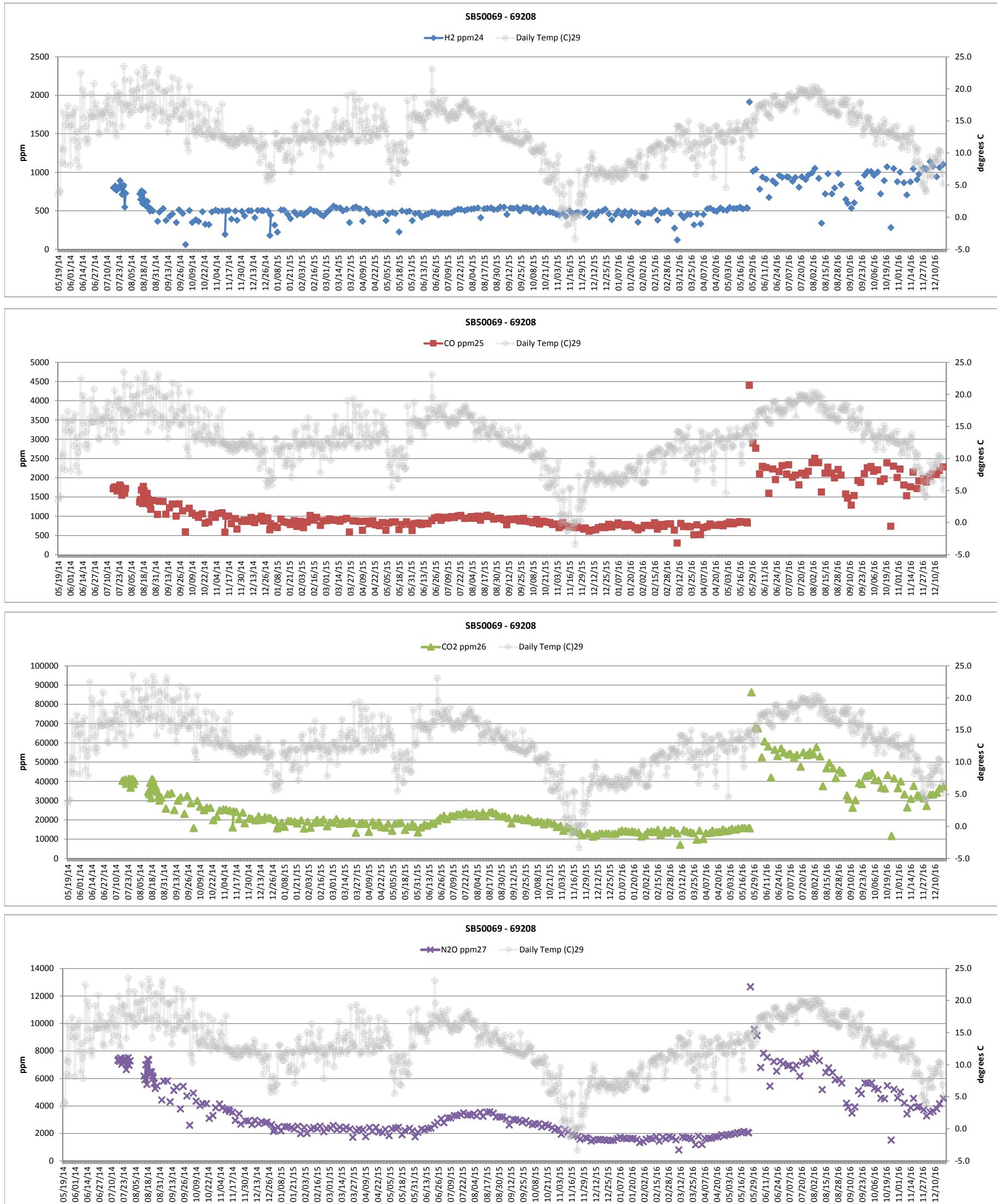
Remediated Nitrate Salt Container Headspace Gas and Temperature



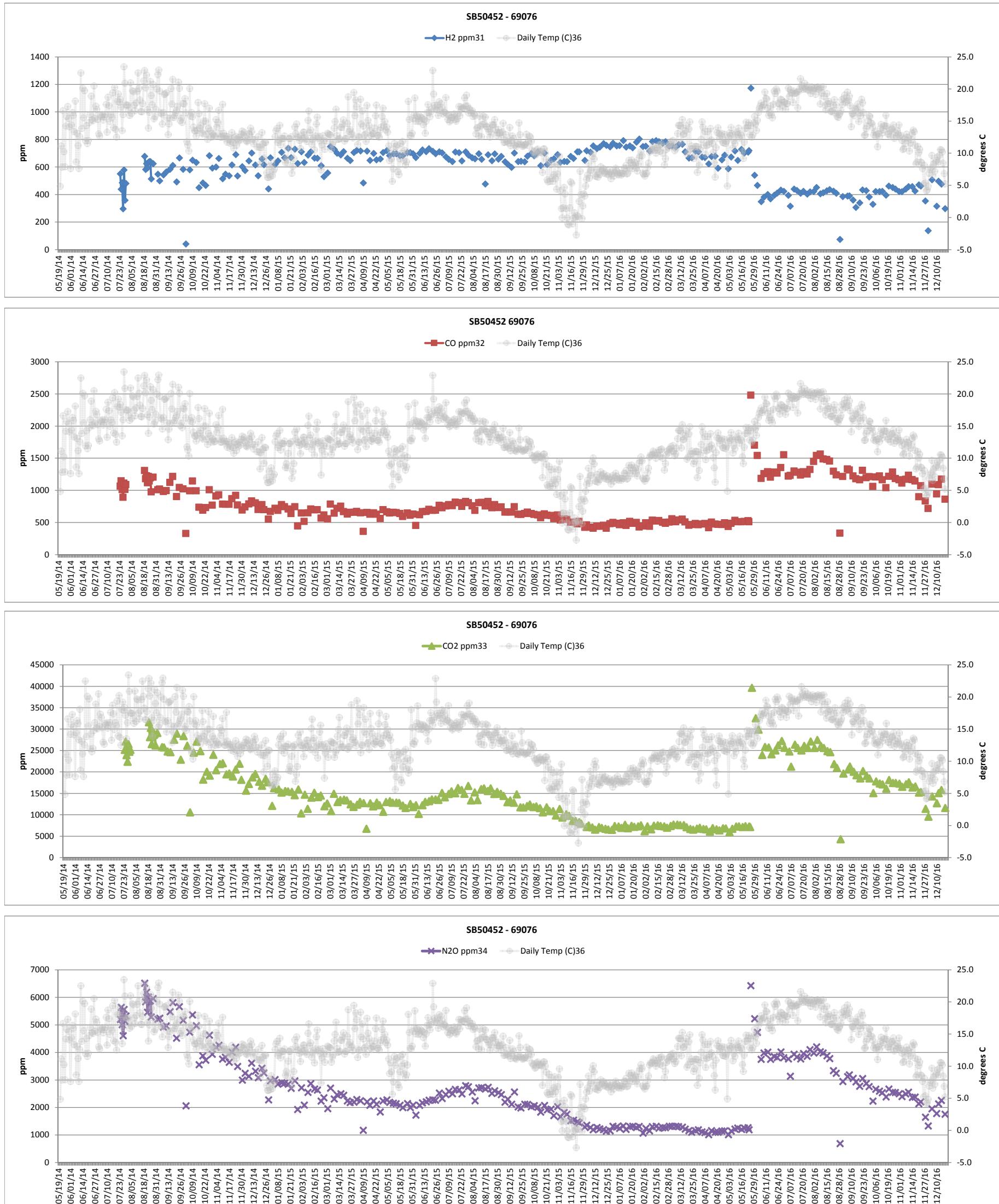
Remediated Nitrate Salt Container Headspace Gas and Temperature



Remediated Nitrate Salt Container Headspace Gas and Temperature



Remediated Nitrate Salt Container Headspace Gas and Temperature



ATTACHMENT 2

Page 1 of 3

TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-14-16 / 1322	Tuesday 6.[4] Date & Start Time: 11-15-16 / 1357	Wednesday 6.[4] Date & Start Time: 11-16-16 / 1320	Thursday 6.[4] Date & Start Time: 11-17-16 / 1337	Friday 6.[4] Date & Start Time: 11-18-16 / 1311	Saturday 6.[4] Date & Start Time: 11-19-16 / 1313	Sunday 6.[4] Date & Start Time: 11-20-16 / 1310
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975
Ambient Temperature (6.[5])	56.6 °F	58.2 °F	56.3 °F	51.8 °F	47.0 °F	47.7 °F	53.2 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
68685	56.8	59.6	56.9	51.7	48.0	48.6	54.1
68540	56.1	57.8	55.3	51.6	47.4	47.3	52.5
LA00000070503	68553	56.6	58.0	56.4	52.0	47.8	51.8
69445	56.8	57.6	57.2	51.5	48.1	47.8	52.8
69618	56.7	58.6	55.5	52.6	48.2	48.8	52.5
69013	56.2	58.1	55.8	52.8	48.5	47.6	52.7
LASB50522	69076	55.5	57.0	56.0	52.4	48.0	47.5
LASB50452	69490	55.6	56.5	56.0	52.2	47.0	47.5
LASB50431	69280	55.7	57.7	55.9	51.2	47.7	46.8
LASB50069	69208	55.7	56.9	55.6	52.4	46.7	47.6
LASB50073	69079	55.4	57.6	55.1	51.9	47.4	47.9
69636	55.6	57.3	55.9	51.9	48.0	47.3	52.4

WORKING COPY

Z# 100497

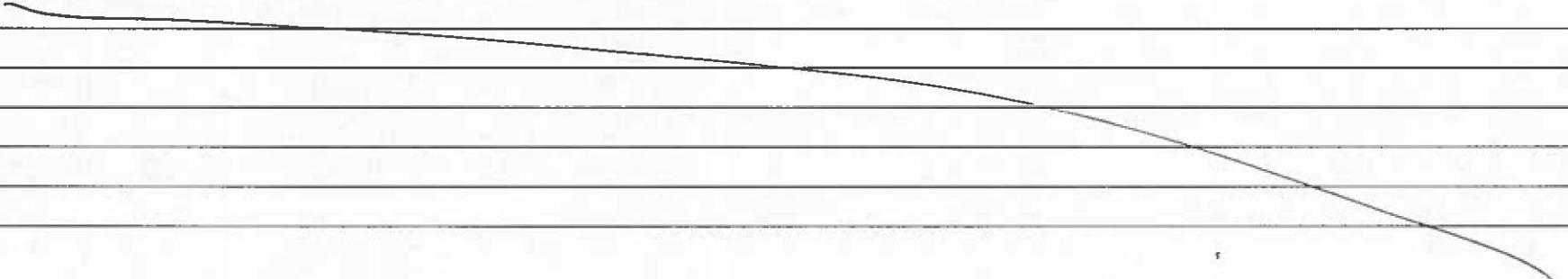
INITIAL EP

DATE 11-14-16

ATTACHMENT 2
 Page 2 of 3

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 1 (continued)							
69616	55.5	58.0	55.7	50.5	47.9	47.7	51.7
69417	N/A						
69620	56.6	57.7	56.3	52.5	47.7	47.6	51.9
69520	56.8	58.3	56.2	52.1	48.3	47.8	52.6
69641	56.3	57.9	56.1	51.6	48.4	47.5	52.9
69298	55.6	57.7	55.7	52.1	47.2	47.8	51.5
LASB02203	92669	56.3	57.3	56.1	51.2	47.3	52.3
End Time (6.[14])		1327	1402	1327	1341	1315	1316
6.[14]	WO: <u>EP</u> WO: <u>CM</u>	WO: <u>MZ</u> WO: <u>FK</u>	WO: <u>MZ</u> WO: <u>FK</u>	WO: <u>VON</u> WO: <u>FK</u>	WO: <u>EP</u> WO: <u>JK</u>	WO: <u>EP</u> WO: <u>JK</u>	WO: <u>EP</u> WO: <u>JK</u>

Comments: NO Comments!



ATTACHMENT 2
 Page 3 of 3

6.[18] Performed by:

Edward Pachon	Edward Pachon	100447	EP	11-14-16
Waste Operator (print)	Signature	Z#	Initials	Date
Levi Marquez	/	1915761	LM	11-14-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	Matt Zocchi	1311676	MZ	11-15-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	1174963	FA	11-15-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	Matt Zocchi	1311676	MZ	11-16-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	1174963	FA	11-16-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	1174963	FA	11-17-16
Waste Operator (print)	Signature	Z#	Initials	Date

Valerie Martinez	Valerie Martinez	059953	Von	11/17/16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pachon	Edward Pachon	100447	EP	11-18-16
Waste Operator (print)	Signature	Z#	Initials	Date
Robert Hansel	Robert Hansel	1291781	RH	11-18-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pachon	Edward Pachon	100447	EP	11-19-16
Waste Operator (print)	Signature	Z#	Initials	Date
Robert Hansel	Robert Hansel	1291781	RH	11-19-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pachon	Edward Pachon	100447	EP	11-20-16
Waste Operator (print)	Signature	Z#	Initials	Date
Robert Hansel	Robert Hansel	1291781	RH	11-20-16
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 3

Page 1 of 3

TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: <u>11-14-16 / 1317</u>	Tuesday 6.[4] Date & Start Time: <u>11-15-16 / 1350</u>	Wednesday 6.[4] Date & Start Time: <u>11-16-16 / 1316</u>	Thursday 6.[4] Date & Start Time: <u>11-17-16 / 1342</u>	Friday 6.[4] Date & Start Time: <u>11-18-16 / 1306</u>	Saturday 6.[4] Date & Start Time: <u>11-19-16 / 1307</u>	Sunday 6.[4] Date & Start Time: <u>11-20-16 / 1305</u>
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>1-28-17</u> File Number <u>104841</u>	Brand: <u>FLUKE</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>	Brand: <u>FLUKE</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>	Brand: <u>FLUKE</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>01-28-17</u> File Number <u>104841</u>
Ambient Temperature (6.[5])	<u>55.4</u> °F	<u>56.9</u> °F	<u>55.2</u> °F	<u>52.8</u> °F	<u>49.5</u> °F	<u>48.5</u> °F	<u>47.4</u> °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input checked="" type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input checked="" type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	<u>54.0</u>	<u>56.3</u>	<u>54.5</u>	<u>53.3</u>	<u>47.9</u>	<u>47.0</u>	<u>50.1</u>
68638	<u>54.0</u>	<u>56.8</u>	<u>56.9</u>	<u>52.3</u>	<u>48.8</u>	<u>48.7</u>	<u>50.1</u>
69615	<u>54.6</u>	<u>57.5</u>	<u>55.4</u>	<u>53.0</u>	<u>48.7</u>	<u>48.2</u>	<u>50.7</u>
69635	<u>54.9</u>	<u>57.6</u>	<u>55.2</u>	<u>52.4</u>	<u>49.0</u>	<u>48.4</u>	<u>50.8</u>
69642	<u>56.3</u>	<u>58.1</u>	<u>56.0</u>	<u>52.9</u>	<u>49.4</u>	<u>49.0</u>	<u>52.2</u>
69630	<u>54.9</u>	<u>57.6</u>	<u>56.0</u>	<u>52.3</u>	<u>48.6</u>	<u>48.4</u>	<u>50.4</u>
69633	<u>54.7</u>	<u>57.0</u>	<u>54.4</u>	<u>53.1</u>	<u>47.9</u>	<u>48.1</u>	<u>49.9</u>
68430	<u>54.9</u>	<u>55.6</u>	<u>55.1</u>	<u>52.9</u>	<u>48.7</u>	<u>48.3</u>	<u>49.8</u>
68631	<u>53.9</u>	<u>57.2</u>	<u>54.6</u>	<u>52.5</u>	<u>48.9</u>	<u>48.2</u>	<u>49.3</u>
69634	<u>52.9</u>	<u>55.6</u>	<u>54.0</u>	<u>52.3</u>	<u>47.8</u>	<u>47.6</u>	<u>48.7</u>
68567	<u>53.7</u>	<u>57.3</u>	<u>54.8</u>	<u>53.4</u>	<u>48.3</u>	<u>47.7</u>	<u>49.6</u>
94227	<u>53.6</u>	<u>56.1</u>	<u>54.3</u>	<u>52.7</u>	<u>48.4</u>	<u>48.1</u>	<u>50.4</u>
LASB50442 68648	<u>53.7</u>	<u>56.2</u>	<u>54.0</u>	<u>53.3</u>	<u>48.9</u>	<u>48.5</u>	<u>49.1</u>
69644	<u>53.7</u>	<u>56.8</u>	<u>54.3</u>	<u>52.9</u>	<u>49.2</u>	<u>48.2</u>	<u>48.6</u>
LASB50443 69183	<u>54.5</u>	<u>56.5</u>	<u>55.2</u>	<u>52.10</u>	<u>48.8</u>	<u>47.9</u>	<u>49.7</u>
69638	<u>55.6</u>	<u>57.7</u>	<u>55.0</u>	<u>52.7</u>	<u>49.1</u>	<u>48.8</u>	<u>50.1</u>

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Z# 100497INITIAL EPDATE 11-14-16

ATTACHMENT 3
 Page 2 of 3

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	54.0	57.4	55.0	53.5	49.1	48.9	50.6
68507	54.5	57.2	54.7	53.0	49.4	49.1	50.0
69568	53.7	55.8	54.1	52.8	49.0	48.5	48.9
69553	53.6	56.6	54.5	52.5	48.5	47.9	46.3
69598	53.9	57.1	54.4	52.8	48.4	47.8	49.1
92472	53.8	56.4	54.2	52.5	48.8	49.4	50.1
LASB50559	92459	53.7	55.8	54.4	52.6	48.7	48.7
69015	54.3	57.1	54.7	53.4	49.5	48.7	49.2
69639	54.4	56.9	54.6	53.2	49.1	48.6	49.9
69637	55.2	57.3	56.0	53.1	49.6	49.3	49.9
End Time (6.[14])	1321	1357	1320	1347	1310	1312	1309
6.[14]	WO: EP WO: JM	WO: MZ WO: FA	WO: MZ WO: FA	WO: VM WO: FA	WO: EP WO: JM	WO: PP WO: JM	WO: EP WO: JM

Comments: *NO Comments!*

ATTACHMENT 3

Page 3 of 3

6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
<u>Leon Martinez</u>	<u>Leon Martinez</u>	<u>1004971</u>	<u>EP</u>	<u>11-14-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>MATT ZOCO</u>	<u>MATT ZOCO</u>	<u>1311676</u>	<u>MZ</u>	<u>11-15-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>1174963</u>	<u>FA</u>	<u>11-15-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>MATT ZOCO</u>	<u>MATT ZOCO</u>	<u>1311676</u>	<u>MZ</u>	<u>11-16-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>1174963</u>	<u>FA</u>	<u>11-16-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>1174963</u>	<u>FA</u>	<u>11-17-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date

Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>1239958</u>	<u>VM</u>	<u>11-17-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>1004971</u>	<u>EP</u>	<u>11-18-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hansel</u>	<u>Robert Hansel</u>	<u>1291778</u>	<u>RH</u>	<u>11-18-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>1004971</u>	<u>EP</u>	<u>11-19-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hansel</u>	<u>Robert Hansel</u>	<u>1291778</u>	<u>RH</u>	<u>11-19-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>1004971</u>	<u>EP</u>	<u>11-20-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hansel</u>	<u>Robert Hansel</u>	<u>1291778</u>	<u>RH</u>	<u>11-20-16</u>

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 4

Page 1 of 3

TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-14-16 / 1313	Tuesday 6.[4] Date & Start Time: 11-15-16 / 1345	Wednesday 6.[4] Date & Start Time: 11-16-16 / 1312	Thursday 6.[4] Date & Start Time: 11-17-16 / 1348	Friday 6.[4] Date & Start Time: 11-18-16 / 1300	Saturday 6.[4] Date & Start Time: 11-19-16 / 1300	Sunday 6.[4] Date & Start Time: 11-20-16 / 1300
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TA-54-0375 Cell 3

Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842
Ambient Temperature (6.[5])	52.0 °F	53.0 °F	52.6 °F	52.3 °F	49.4 °F	50 °F	49.9 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT						
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
69519	52.3	53.9	53.0	51.6	49.4	49.2	50.4
69645	51.5	52.1	51.5	50.9	49.7	49.1	50.7
94068	51.4	51.6	50.5	51.5	49.9	49.4	50.7
93605	51.5	52.8	52.6	51.2	50.0	49.8	50.6
69548	52.2	53.5	52.3	52.1	49.8	49.4	51.0
69604	52.6	53.4	52.7	51.3	49.6	49.5	50.8
LASB50529	68665	51.8	52.0	51.7	50.7	49.5	50.7
LASB50418	69595	52.1	52.4	52.6	51.1	49.6	48.8
69036		52.1	53.6	52.4	51.8	49.5	49.1
LASB50451	69361	52.3	52.7	52.1	50.9	49.6	49.5
69559		52.5	53.2	52.2	51.9	49.9	49.3
LASB50448	69491	52.5	53.6	53.0	51.7	49.6	49.5

WORKING COPY

Z# 100497

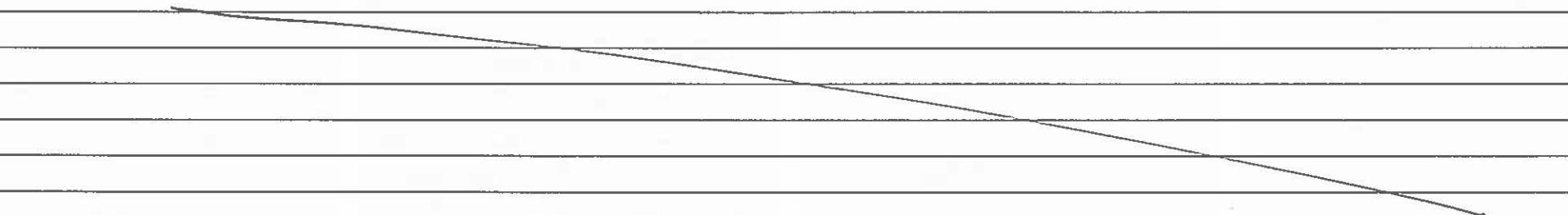
INITIAL EP

DATE 11-14-16

ATTACHMENT 4
 Page 2 of 3

Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 3 (continued)							
87827	53.3	54.3	53.3	51.7	50.5	50.3	52.1
87826	53.3	54.2	54.6	51.9	50.1	49.9	51.4
87823	54.0	53.9	53.1	52.1	49.3	49.4	51.2
87825	54.1	53.9	54.4	51.8	49.6	49.6	52.5
End Time (6.[14])	1316	1350	1316	1351	1305	1306	1304
6.[14]	WO: EP WO: LM	WO: MZ WO: FA	WO: MZ WO: FA	WO: VDM WO: FA	WO: DD WO: JG	WO: EP WO: SG	WO: EP WO: SG

Comments: *No Comments!*



ATTACHMENT 4
 Page 3 of 3

6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pachon	<i>Edward Pachon</i>	100467	EP	11-14-16
Leesa M. Martinez	<i>Leesa Martinez</i>	169526	LMM	11-14-16
MATT ZOCCHI	<i>Matt Zocchi</i>	1811676	MZ	11-15-16
Fabian Araya	<i>Fabian Araya</i>	1174663	FA	11-15-16
MATT ZOCCHI	<i>Matt Zocchi</i>	1811676	MZ	11-16-16
Fabian Araya	<i>Fabian Araya</i>	1174663	FA	11-16-16
Waste Operator (print)	Signature	Z#	Initials	Date

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	<i>Fabian Araya</i>	1174663	FA	11-17-16
Valerie Martinez	<i>Valerie Martinez</i>	1237758	VMM	11-17-16
Edward Pachon	<i>Edward Pachon</i>	100467	EP	11-18-16
Robert Hausei	<i>Robert Hausei</i>	1291778	RH	11-18-16
Edward Pachon	<i>Edward Pachon</i>	100467	EP	11-19-16
Robert Hausei	<i>Robert Hausei</i>	1291778	RH	11-19-16
Edward Pachon	<i>Edward Pachon</i>	100467	EP	11-20-16
Robert Hausei	<i>Robert Hausei</i>	1291778	RH	11-20-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 2

Page 1 of 3

TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-21-16 / 1407	Tuesday 6.[4] Date & Start Time: 11-22-16 / 1405	Wednesday 6.[4] Date & Start Time: 11-23-16 / 1312	Thursday 6.[4] Date & Start Time: 11-24-16 / 1314	Friday 6.[4] Date & Start Time: 11-25-16 / 1314	Saturday 6.[4] Date & Start Time: 11-26-16 / 1312	Sunday 6.[4] Date & Start Time: 11-27-16 / 1312
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975
Ambient Temperature (6.[5])	51.4 °F	52.0 °F	48.4 °F	47.6 °F	45.6 °F	41.9 °F	46.2 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT						
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
68685	51.6	52.3	47.1	48.1	46.4	41.9	45.6
68540	50.1	51.5	48.2	46.9	45.5	41.1	45.1
LA00000070503	68553	50.8	51.8	47.2	47.9	46.5	41.6
69445	50.7	52.4	47.8	48.7	46.1	42.1	46.7
69618	50.6	51.7	48.1	47.8	46.0	41.7	45.1
69013	50.8	52.2	48.3	49.8	46.4	41.7	46.1
LASB50522	69076	50.1	50.8	47.3	46.7	41.7	45.5
LASB50452	69490	50.4	50.1	47.5	47.3	45.7	41.4
LASB50431	69280	50.4	51.4	47.2	47.2	45.6	41.1
LASB50069	69208	50.4	51.2	47.6	46.9	45.5	41.2
LASB50073	69079	50.8	51.4	47.3	46.8	46.3	41.2
69636	50.6	51.7	47.9	48.1	46.7	41.6	47.1

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Z# 174977

INITIAL OA

DATE 11-21-16

ATTACHMENT 2

Page 2 of 3

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 1 (continued)							
69616	50.0	51.0	47.4	46.8	45.5	41.3	45.7
69417	N/A						
69620	50.1	51.7	47.9	48.2	46.8	41.5	46.3
69520	50.4	51.2	47.8	47.6	46.2	42.1	45.8
69641	50.7	52.3	48.4	47.8	46.7	42.6	46.5
69298	50.1	51.3	48.2	47.5	46.3	42.2	45.9
LASB02203	92669	50.8	51.8	47.8	47.3	46.0	41.6
End Time (6.[14])		1413	1407	1316	1318	1319	1315
6.[14]		WO: <u>SLA</u> WO: <u>MZ</u>	WO: <u>VDM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>

Comments:

ATTACHMENT 2

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6.[18] Performed by:

Patricia Aguilar Karen Aguirre 1A749-17 C&A 11-21-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-21-16
 Waste Operator (print) Signature Z# Initials Date
Valerie Martinez Valerie Martinez 539968 VVN 11-22-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-22-16
 Waste Operator (print) Signature Z# Initials Date
Leon Montoya / Leon 1915261 LM 11-23-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-23-16
 Waste Operator (print) Signature Z# Initials Date
Leon Montoya / Leon 1915261 LM 11-24-16
 Waste Operator (print) Signature Z# Initials Date

9.1[2] Reviewed by:

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

MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-24-16
 Waste Operator (print) Signature Z# Initials Date
Leon Montoya / Leon 1915261 LM 11-25-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-25-16
 Waste Operator (print) Signature Z# Initials Date
Leon Montoya / Leon 1915261 LM 11-26-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-26-16
 Waste Operator (print) Signature Z# Initials Date
Leon Montoya / Leon 1915261 LM 11-27-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi 13116761 MZ 11-27-16
 Waste Operator (print) Signature Z# Initials Date

ATTACHMENT 3

Page 1 of 3

TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-21-16 14:00	Tuesday 6.[4] Date & Start Time: 11-22-16 13:59	Wednesday 6.[4] Date & Start Time: 11-23-16 13:05	Thursday 6.[4] Date & Start Time: 11-24-16 13:06	Friday 6.[4] Date & Start Time: 11-25-16 13:07	Saturday 6.[4] Date & Start Time: 11-26-16 13:05	Sunday 6.[4] Date & Start Time: 11-27-16 13:05	
TA-54-0375 Cell 2								
Calibrated infrared thermometer (4.2.1[2][B3])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-16 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-16 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 01-28-16 File Number 104841	
Ambient Temperature (6.[5])	49.5 °F	51.3 °F	49.4 °F	49.9 °F	49.1 °F	43.3 °F	48.2 °F	
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6 [6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT							
Container ID # (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])							
LASB02198	68408	50.6	50.7	47.4	47.9	46.5	43.8	47.6
68638		50.2	50.5	48.4	48.4	46.7	42.4	45.4
69615		50.9	50.7	49.7	48.4	46.6	43.6	47.1
69635		50.4	50.6	48.6	48.5	47.2	42.6	47.1
69642		50.4	51.2	49.1	48.8	47.3	43.1	47.3
69630		50.5	50.4	48.6	49.5	46.9	43.3	46.5
69633		49.7	50.10	48.3	48.3	46.7	43.5	47.7
68430		50.4	50.4	48.7	48.6	47.0	43.9	47.0
68631		49.1	50.1	49.1	49.3	46.8	43.3	47.0
69634		49.5	50.0	47.6	47.9	46.1	43.2	46.7
68567		50.7	50.3	48.1	49.3	46.6	43.3	46.9
94227		49.6	50.4	48.4	48.4	46.8	43.9	47.2
LASB50442	68648	50.5	50.2	48.9	48.5	47.1	43.9	47.2
69644		50.2	50.5	44.5	48.4	46.8	43.2	46.8
LASB50443	69183	50.1	50.2	48.1	47.8	46.1	43.8	47.2
69638		50.1	50.3	48.7	49.0	47.1	43.8	47.2

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ATTACHMENT 3

Page 2 of 3

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	49.9	50.4	49.7	49.6	49.4	49.7	47.5
68507	50.2	50.6	49.6	49.9	47.7	44.2	48.5
69568	49.9	50.2	49.6	49.5	47.5	44.4	47.3
69553	49.4	50.1	49.4	49.4	46.7	43.4	46.6
69598	50.0	50.0	49.1	49.1	47.6	44.0	47.2
LASB50559	92472	49.6	50.4	49.7	49.8	48.6	44.3
	92459	49.3	49.9	49.7	49.7	47.1	44.0
69015		50.3	50.6	49.2	50.3	47.4	44.9
69639		50.0	50.2	49.7	49.7	47.5	44.4
69637		49.7	50.3	49.5	49.1	47.7	44.1
End Time (6.[14])		1406	1404	1311	1313	1311	1311
6.[14]		WO: <u>SA</u> WO: <u>MZ</u>	WO: <u>SA</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>	WO: <u>LM</u> WO: <u>MZ</u>

Comments:

ATTACHMENT 3

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6.[18] Performed by:

Tina Aguirre / Tina Aguirre 11/21/16

Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-21-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez / Valerie Martinez 11/22/16				
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-22-16	
Waste Operator (print)	Signature	Z#	Initials	Date
<i>Leon Montoya / Leon Montoya</i>		1/19/16		11-23-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-23-16	
Waste Operator (print)	Signature	Z#	Initials	Date
<i>Leon Montoya / Leon Montoya</i>		1/19/16		11-24-16
Waste Operator (print)	Signature	Z#	Initials	Date

MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-24-16	
Waste Operator (print)	Signature	Z#	Initials	Date
<i>Leon Montoya / Leon Montoya</i>		1/19/16		11-25-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-25-16	
Waste Operator (print)	Signature	Z#	Initials	Date
<i>Leon Montoya / Leon Montoya</i>		1/19/16		11-26-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-26-16	
Waste Operator (print)	Signature	Z#	Initials	Date
<i>Leon Montoya / Leon Montoya</i>		1/19/16		11-27-16
Waste Operator (print)	Signature	Z#	Initials	Date
MATT ZOCCHI	<i>Matt Zocchi</i>	13116761/MZ	/11-27-16	

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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ATTACHMENT 4

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-21-16 / 1352	Tuesday 6.[4] Date & Start Time: 11-22-16 / 1353	Wednesday 6.[4] Date & Start Time: 11-23-16 / 1300	Thursday 6.[4] Date & Start Time: 11-24-16 / 1300	Friday 6.[4] Date & Start Time: 11-25-16 / 1300	Saturday 6.[4] Date & Start Time: 11-26-16 / 1300	Sunday 6.[4] Date & Start Time: 11-27-16 / 1300
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TA-54-0375 Cell 3

Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842
Ambient Temperature (6.[5])	52.6 °F	52.1 °F	51.9 °F	51.1 °F	50.9 °F	48.1 °F	45.3 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT					
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
69519	50.8	50.9	49.6	47.3	49.2	46.8	48.7
69645	50.3	50.3	49.5	47.0	48.4	46.4	48.3
94068	50.1	50.10	50.1	47.6	49.4	46.1	48.4
93605	50.2	50.16	49.9	47.3	47.5	47.0	49.7
69548	50.5	50.7	51.4	47.3	48.9	46.2	48.9
69604	50.6	50.6	49.7	47.4	49.6	46.1	48.6
LASB50529	68665	50.1	50.3	49.3	46.8	48.3	46.0
LASB50418	69595	50.3	50.5	49.4	46.9	48.2	46.2
69036	50.3	51.0	48.9	47.6	48.5	46.2	48.0
LASB50451	69361	50.5	50.9	49.6	46.9	48.6	46.3
69559	50.5	50.10	49.5	47.1	48.7	46.3	45.1
LASB50448	69491	50.9	50.9	49.4	47.3	49.0	46.1

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ATTACHMENT 4

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 3 (continued)							
87827	50.9	51.5	49.9	47.6	49.0	47.7	50.0
87826	50.8	51.1	49.6	47.6	49.3	46.8	49.1
87823	50.8	51.0	49.7	46.9	48.5	46.1	48.0
87825	51.7	51.5	49.2	47.6	48.3	45.7	47.7
End Time (6.[14])	1359	1358	1304	1305	1306	1304	1305
6.[14]	WO: A WO: MZ	WO: Y0Y WO: MZ	WO: LM WO: MZ	WO: LM WO: MZ	WO: LM WO: MZ	WO: LM WO: MZ	WO: LM WO: MZ

Comments:

ATTACHMENT 4

Page 3 of 3

6.[18] Performed by:

Tina Aguirre / Tina Aguirre / 11-21-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-21-16
 Waste Operator (print) Signature Z# Initials Date
Valerie Martinez / Valerie Martinez / 1338581 VM / 11-22-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-22-16
 Waste Operator (print) Signature Z# Initials Date
Leomontoya / Leomontoya / 11915261 LM / 11-23-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-23-16
 Waste Operator (print) Signature Z# Initials Date
Leomontoya / Leomontoya / 11915261 LM / 11-24-16
 Waste Operator (print) Signature Z# Initials Date

MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-24-16
 Waste Operator (print) Signature Z# Initials Date
Leomontoya / Leomontoya / 11915261 LM / 11-25-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-25-16
 Waste Operator (print) Signature Z# Initials Date
Leomontoya / Leomontoya / 11915261 LM / 11-26-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-26-16
 Waste Operator (print) Signature Z# Initials Date
Leomontoya / Leomontoya / 11915261 LM / 11-27-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zocchi / 13116761 MZ / 11-27-16
 Waste Operator (print) Signature Z# Initials Date

9.1[2] Reviewed by:

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

ATTACHMENT 2

Page 1 of 3

TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 11-28-16 / 1340	Tuesday 6.[4] Date & Start Time: 11-29-16 / 1324	Wednesday 6.[4] Date & Start Time: 11-30-16 / 1327	Thursday 6.[4] Date & Start Time: 12-01-16 / 1343	Friday 6.[4] Date & Start Time: 12-02-16 / 1326	Saturday 6.[4] Date & Start Time: 12-03-16 / 1311	Sunday 6.[4] Date & Start Time: 12-04-16 / 1315
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975 -	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975
Ambient Temperature (6.[5])	41.1 °F	40.4 °F	38.6 °F	40.1 °F	44.2 °F	45.5 °F	46.2 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT					
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])					
68685	41.5	38.9	37.7	41.8	44.3	45.1	44.8
68540	41.5	38.7	37.6	39.9	44.8	45.5	46.0
LA00000070503	68553	41.6	38.9	37.6	39.8	43.9	45.4
69445	41.5	40.9	39.2	46.2	43.3	45.1	46.7
69618	41.8	39.3	38.0	40.2	42.9	46.1	46.1
69013	42.0	39.6	38.2	40.3	42.4	46.6	46.0
LASB50522	69076	41.5	40.4	37.9	39.4	43.5	45.8
LASB50452	69490	41.7	39.5	39.7	40.7	44.4	45.4
LASB50431	69280	41.8	39.6	37.9	39.7	44.1	45.7
LASB50069	69208	41.6	40.0	39.2	39.5	43.6	45.6
LASB50073	69079	41.9	39.5	37.7	39.6	43.9	45.8
69636	42.8	39.1	39.6	41.2	44.3	46.1	46.1

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DATE 11-28-16

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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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ATTACHMENT 2

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell I (continued)							
69616	42.2	40.6	37.9	39.4	44.2	46.7	46.2
69417	N/A	N/A	N/A	at 12:15pm	N/A	N/A	N/A
69620	41.7	39.5	38.1	39.8	43.4	46.0	46.1
69520	42.3	39.7	39.9	41.4	43.8	46.2	46.8
69641	42.4	41.7	38.8	41.8	44.3	46.4	46.3
69298	42.1	39.9	38.1	39.8	44.5	46.5	47.0
LASB02203	92669	42.2	39.8	38.1	40.0	46.1	46.4
End Time (6.[14])		1344	1328	1331	1346	1330	1315
6.[14]	WO: QA WO: LM	WO: QA WO: MZ	WO: QA WO: MZ	WO: QA WO: MZ	WO: QA WO: JG	WO: QA WO: JG	WO: QA WO: JG

Comments: N/C

ATTACHMENT 2

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6.[18] Performed by:

Lina Aguirre / Martinez / QA / 11-28-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 11-28-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 11-29-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zr / 311676 / MZ / 11-29-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 11-30-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI / Matt Zr / 311676 / MZ / 11-30-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 12-01-16
 Waste Operator (print) Signature Z# Initials Date

MATT ZOCCHI / Matt Zr / 311676 / MZ / 12-01-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 12-02-16
 Waste Operator (print) Signature Z# Initials Date
Juan Garcia / Juan Garcia / 169840 / J / 12-02-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 12-03-16
 Waste Operator (print) Signature Z# Initials Date
Juan Garcia / Juan Garcia / 169840 / J / 12-03-16
 Waste Operator (print) Signature Z# Initials Date
Lina Aguirre / Martinez / QA / 12-04-16
 Waste Operator (print) Signature Z# Initials Date
Juan Garcia / Juan Garcia / 169840 / J / 12-04-16
 Waste Operator (print) Signature Z# Initials Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

Document No.: AREAG-WO-DOP-12
 Revision: 1
 Effective Date: July 15, 2016
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POC's.

	Monday 6.[4] Date & Start Time: 11-28-16 / 1332	Tuesday 6.[4] Date & Start Time: 11-29-16 / 1319	Wednesday 6.[4] Date & Start Time: 11-30-16 / 1322	Thursday 6.[4] Date & Start Time: 11-30-16 / 1322	Friday 6.[4] Date & Start Time: 12-01-16 / 1305	Saturday 6.[4] Date & Start Time: 12-02-16 / 1305	Sunday 6.[4] Date & Start Time: 12-03-16 / 1309
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1 [2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-24-17</u> File Number <u>104844</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>12-28-17</u> File Number <u>104841</u>
Ambient Temperature (6.[5])	43.9 °F	42.0 °F	42.7 °F	41.9 °F	46.7 °F	47.4 °F	46.7 °F
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
LASB02198 68408	44.1	42.3	40.9	41.0	45.2	46.3	46.5
68638	44.3	41.3	40.0	41.2	45.0	46.5	46.7
69615	43.7	41.3	40.2	41.4	45.7	46.2	47.7
69635	43.8	41.6	41.9	42.3	45.6	47.3	47.5
69642	43.6	41.2	40.7	41.9	44.9	47.3	47.2
69630	43.7	41.2	40.6	41.6	45.6	46.7	47.3
69633	44.3	41.7	40.4	41.7	45.4	46.9	47.1
68430	44.1	41.8	40.4	41.3	45.1	47.2	47.4
68631	44.0	41.4	40.3	41.0	44.6 45.1	46.7	47.3
69634	43.1	42.0	40.4	41.2	45.0 44.6	46.4	46.4
68567	44.3	41.6	40.3	41.3	45.5 45.0	46.2	46.4
94227	44.3	41.8	40.6	42.1	45.5	46.8	46.9
LASB50442 68648	44.5	42.7	41.9	42.6	45.5	46.8	46.8
69644	44.0	41.5	40.8	41.1	45.5	46.5	46.9
LASB50443 69183	43.9	41.6	40.4	41.1	45.2	46.6	47.0
69638	44.2	42.5	40.4	43.4	45.6	46.9	47.2

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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	44.7	42.0	41.0	41.9	46.5	47.0	47.3
68507	45.0	42.6	46.2	42.2	45.5	47.0	47.9
69568	44.6	41.9	40.2	42.6	45.2	46.9	47.0
69553	44.5	42.1	40.8	41.1	45.3	46.5	46.7
69598	44.6	42.4	40.9	41.5	45.1	46.1	46.4
92472	44.7	42.8	42.0	43.4	45.9	46.4	46.4
LASB50559	92459	44.9	42.9	42.3	43.2	45.6	46.8
69015	45.2	43.3	42.3	43.7	45.8	47.3	47.5
69639	44.1	42.4	41.4	42.5	45.5	47.3	47.2
69637	44.4	42.2	41.3	42.3	45.6	47.3	47.5
End Time (6.[14])	1338	1323	1326	1342	1325	1310	1314
6.[14]	WO: <u>SA</u> WO: <u>ZM</u>	WO: <u>SA</u> WO: <u>MZ</u>	WO: <u>SA</u> WO: <u>MZ</u>	WO: <u>SA</u> WO: <u>MZ</u>	WO: <u>SA</u> WO: <u>JM</u>	WO: <u>SA</u> WO: <u>JM</u>	WO: <u>SA</u> WO: <u>JM</u>

Comments:

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ATTACHMENT 3

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6.1[8] Performed by:

Tina Aguirre Tina Aguirre 174977 QA 11-28-16
 Waste Operator (print) Signature Z# Initials Date
Laura Montoya Laura Montoya 174977 QA 11-28-16
 Waste Operator (print) Signature Z# Initials Date
Laura Aguirre Laura Aguirre 174977 QA 11-29-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI MATT ZOCCHI 1311676 MZ 11-29-16
 Waste Operator (print) Signature Z# Initials Date
Laura Aguirre Laura Aguirre 174977 QA 11-30-16
 Waste Operator (print) Signature Z# Initials Date
MATT ZOCCHI MATT ZOCCHI 1311676 MZ 11-30-16
 Waste Operator (print) Signature Z# Initials Date
Tina Aguirre Tina Aguirre 174977 QA 11-30-16
 Waste Operator (print) Signature Z# Initials Date

MATT ZOCCHI MATT ZOCCHI 1311676 MZ 11-30-16
 Waste Operator (print) Signature Z# Initials Date
Tina Aguirre Tina Aguirre 174977 QA 12-02-16
Juan Garcia Juan Garcia 169840 JG 12-02-16
 Waste Operator (print) Signature Z# Initials Date
Tina Aguirre Tina Aguirre 174977 QA 12-03-16
 Waste Operator (print) Signature Z# Initials Date
Juan Garcia Juan Garcia 169840 JG 12-03-16
 Waste Operator (print) Signature Z# Initials Date
Tina Aguirre Tina Aguirre 174977 QA 12-04-16
 Waste Operator (print) Signature Z# Initials Date
Juan Garcia Juan Garcia 169840 JG 12-04-16
 Waste Operator (print) Signature Z# Initials Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 4

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

Monday 6.[4] Date & Start Time: 11-28-16 / 1335	Tuesday 6.[4] Date & Start Time: 11-29-16 / 1313	Wednesday 6.[4] Date & Start Time: 11-30-16 / 1317	Thursday 6.[4] Date & Start Time: 12-01-16 / 1333	Friday 6.[4] Date & Start Time: 12-02-16 / 1314	Saturday 6.[4] Date & Start Time: 12-03-16 / 1300	Sunday 6.[4] Date & Start Time: 12-04-16 / 1304
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TA-54-0375 Cell 3 1328

Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal Due Date: 01-28-17 File Number: 104842	
Ambient Temperature (6.[5])	46.7 °F	48.8 °F	44.9 °F	46.6 °F	46.6 °F	46.9 °F	47.6 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT					
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])					
69519	46.4	45.7	45.7	46.0	45.0	46.6	46.0
69645	47.0	45.0	45.7	46.0	45.2	46.8	45.6
94068	46.8	45.1	45.7	45.8	44.8	47.2	46.0 46.0 At 12-04-16
93605	46.8	45.7	45.0	46.9	45.3	46.8	46.3
69548	46.8	45.0	45.6	45.1	45.0	46.7	46.0
69604	46.7	44.8	45.5	45.9	45.7	46.5	46.6
LASB50529	68665	46.4	45.4	46.2	47.0	45.1	46.4
LASB50418	69595	46.6	44.7	45.3	45.7	44.7	46.0
69036	46.3	44.6	45.2	45.0	45.8	46.7	46.2
LASB50451	69361	46.4	45.6	46.1	46.8	44.8	46.3
69559	47.4	45.9	45.3	45.6	45.2	46.5	45.9
LASB50448	69491	46.5	44.9	45.2	45.1	45.8	47.2

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DATE 11-28-16

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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 3 (continued)							
87827	46.6	45.8	46.3	47.3	46.3	46.6	46.0
87826	46.3	45.0	45.5	46.3	44.6	46.1	45.6
87823	45.6	44.9	44.9	46.3	45.4	46.3	45.7
87825	45.2	43.5	45.0	44.5	44.6	45.6	46.3
End Time (6.[14])	1330	1318	1321	1337	1319	1304	1308
6.[14]	WO: <u>AT</u> WO: <u>LW</u>	WO: <u>AT</u> WO: <u>MZ</u>	WO: <u>AT</u> WO: <u>MZ</u>	WO: <u>AT</u> WO: <u>MZ</u>	WO: <u>AT</u> WO: <u>ST</u>	WO: <u>AT</u> WO: <u>ST</u>	WO: <u>AT</u> WO: <u>ST</u>

Comments: N/C

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6.[18] Performed by:

Tina Aguirre	<i>Tina Aguirre</i>	MZ	11-28-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Ivan Garcia	<i>Ivan Garcia</i>	MZ	11-28-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	11-29-16	
Waste Operator (print)	Signature	Z#	Initials	Date
MATT Zocco	<i>Matt Zocco</i>	MZ	11-29-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	11-30-16	
Waste Operator (print)	Signature	Z#	Initials	Date
MATT Zocco	<i>Matt Zocco</i>	MZ	11-30-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	12-01-16	
Waste Operator (print)	Signature	Z#	Initials	Date

MATT Zocco	<i>Matt Zocco</i>	MZ	12-01-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	12-02-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	MZ	12-02-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	12-03-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	MZ	12-03-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	MZ	12-04-16	
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	MZ	12-04-16	
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 12-5-16 / 1347	Tuesday 6.[4] Date & Start Time: 12-6-16 / 1329	Wednesday 6.[4] Date & Start Time: 12-07-16 / 1333	Thursday 6.[4] Date & Start Time: 12-08-16 / 1345	Friday 6.[4] Date & Start Time: 12-09-16 / 1420	Saturday 6.[4] Date & Start Time: 12-10-16 / 1310	Sunday 6.[4] Date & Start Time: 12-11-16 / 1311
TA-54-0375 Cell 1	Calibrated infrared thermometer (4.2.1[2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>6-20-17</u> File Number <u>101975</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>6-20-17</u> File Number <u>101975</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>6-20-17</u> File Number <u>101975</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>06-20-17</u> File Number <u>101975</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>06-20-17</u> File Number <u>101975</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>06-20-17</u> File Number <u>101975</u>
Ambient Temperature (6.[5])	<u>49.1</u> °F	<u>42.6</u> °F	<u>46.2</u> °F	<u>42.0</u> °F	<u>47.1</u> ^{46.5} ₁₀₀₄₉₇ °F	<u>47.2</u> °F	<u>48.8</u> °F
(S) Temperature \pm 75°F SR 4.1ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input checked="" type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	<u>49.7</u>	<u>43.3</u>	<u>46.0</u>	<u>43.4</u>	<u>47.1</u>	<u>48.0</u>	<u>50.4</u>
68540	<u>49.7</u>	<u>43.7</u>	<u>46.8</u>	<u>43.3</u>	<u>47.3</u>	<u>47.8</u>	<u>49.8</u>
LA00000070503	<u>68553</u>	<u>49.2</u>	<u>43.4</u>	<u>46.5</u>	<u>43.4</u>	<u>47.3</u>	<u>49.2</u>
69445	<u>50.5</u>	<u>45.1</u>	<u>46.7</u>	<u>45.3</u>	<u>47.5</u>	<u>48.1</u>	<u>49.7</u>
69618	<u>49.5</u>	<u>44.2</u>	<u>46.0</u>	<u>43.6</u>	<u>47.6</u>	<u>48.0</u>	<u>49.6</u>
69013	<u>50.5</u>	<u>43.9</u>	<u>46.5</u>	<u>43.8</u>	<u>47.2</u>	<u>48.3</u>	<u>49.4</u>
LASB50522	69076	<u>49.5</u>	<u>43.7</u>	<u>46.1</u>	<u>43.9</u>	<u>47.7</u>	<u>48.0</u>
LASB50452	69490	<u>49.4</u>	<u>43.8</u>	<u>47.0</u>	<u>44.9</u>	<u>47.5</u>	<u>48.0</u>
LASB50431	69280	<u>49.4</u>	<u>43.8</u>	<u>46.8</u>	<u>43.9</u>	<u>48.0</u>	<u>49.0</u>
LASB50069	69208	<u>49.0</u>	<u>43.5</u>	<u>46.5</u>	<u>43.6</u>	<u>47.4</u>	<u>48.9</u>
LASB50073	69079	<u>49.1</u>	<u>43.6</u>	<u>46.5</u>	<u>44.5</u>	<u>47.7</u>	<u>49.0</u>
69636		<u>49.9</u>	<u>43.9</u>	<u>46.9</u>	<u>43.9</u>	<u>48.0</u>	<u>49.2</u>

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 1 (continued)							
69616	47.5	43.9	46.9	44.16	48.0	47.8	48.9
69417	N/A						
69620	49.5	43.7	46.2	45.2	47.9	48.3	49.8
69520	49.5	43.7	46.7	44.3	48.2	48.0	48.9
69641	48.0	43.8	47.4	44.4	48.1	48.6	49.7
69298	48.3	44.0	47.9	44.4	48.0	48.2	49.1
LASB02203	92669	49.2	44.0	46.9	44.1	48.5	48.3
End Time (6.[14])		1350	1335	1337	1348	1423	1314
6.[14]	WO: <u>EP</u> WO: <u>JV</u>	WO: <u>FA</u> WO: <u>JV</u>	WO: <u>JH</u>	WO: <u>Von</u> WO: <u>MZ</u>	WO: <u>EP</u> WO: <u>FA</u>	WO: <u>EP</u> WO: <u>FA</u>	WO: <u>EP</u> WO: <u>FA</u>

Comments:

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6.[18] Performed by:

Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	12-5-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	1169840	JG	12-5-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	<i>Fabian Araya</i>	174903	FA	12-6-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	1169840	JG	12-6-16
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	1169840	TA	12-07-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	1169840	JG	12-07-16
Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	<i>Valerie Martinez</i>	1169858	Von	12-08-16
Waste Operator (print)	Signature	Z#	Initials	Date

Matt Zales	<i>Matt Zales</i>	1169876	MZ	12-08-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	12-09-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	<i>Fabian Araya</i>	174903	FA	12-09-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	12-10-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	<i>Fabian Araya</i>	174903	FA	12-10-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	12-11-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	<i>Fabian Araya</i>	174903	FA	12-11-16
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POC's.

	Monday 6.[4] Date & Start Time: <u>12-5-16 / 1352</u>	Tuesday 6.[4] Date & Start Time: <u>12-6-16 / 1322</u>	Wednesday 6.[4] Date & Start Time: <u>12-07-16 / 1327</u>	Thursday 6.[4] Date & Start Time: <u>12-08-16 / 1340</u>	Friday 6.[4] Date & Start Time: <u>12-09-16 / 1416</u>	Saturday 6.[4] Date & Start Time: <u>12-10-16 / 1305</u>	Sunday 6.[4] Date & Start Time: <u>12-11-16 / 1306</u>
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>1-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>1-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>1-28-17</u> File Number <u>104841</u>	Brand <u>FLUKE</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104841</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104841</u>
Ambient Temperature (6.[5])	<u>49.2</u> °F	<u>45.3</u> °F	<u>47.3</u> °F	<u>44.7</u> °F	<u>47.6</u> °F	<u>48.7</u> °F	<u>49.2</u> °F
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT			
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	<u>48.7</u>	<u>45.0</u>	<u>47.3</u>	<u>44.8</u>	<u>47.5</u>	<u>47.7</u>	<u>49.3</u>
68638	<u>49.0</u>	<u>45.1</u>	<u>47.4</u>	<u>45.5</u>	<u>47.8</u>	<u>48.1</u>	<u>49.6</u>
69615	<u>49.2</u>	<u>45.7</u>	<u>47.6</u>	<u>45.3</u>	<u>48.2</u>	<u>48.8</u>	<u>49.7</u>
69635	<u>49.8</u>	<u>45.5</u>	<u>47.7</u>	<u>45.9</u>	<u>48.2</u>	<u>48.5</u>	<u>49.7</u>
69642	<u>49.5</u>	<u>44.8</u>	<u>47.7</u>	<u>45.2</u>	<u>48.4</u>	<u>48.9</u>	<u>50.0</u>
69630	<u>50.3</u>	<u>45.7</u>	<u>48.1</u>	<u>45.3</u>	<u>48.1</u>	<u>48.6</u>	<u>49.7</u>
69633	<u>49.9</u>	<u>45.4</u>	<u>46.9</u>	<u>46.1</u>	<u>48.0</u>	<u>48.9</u>	<u>49.6</u>
68430	<u>51.6</u>	<u>45.2</u>	<u>47.9</u>	<u>45.1</u>	<u>47.9</u>	<u>48.4</u>	<u>49.4</u>
68631	<u>48.9</u>	<u>44.9</u>	<u>47.2</u>	<u>45.0</u>	<u>47.0</u>	<u>48.1</u>	<u>49.5</u>
69634	<u>48.8</u>	<u>45.2</u>	<u>47.4</u>	<u>45.4</u>	<u>46.8</u>	<u>47.2</u>	<u>48.6</u>
68567	<u>48.6</u>	<u>45.1</u>	<u>46.8</u>	<u>44.9</u>	<u>46.3</u>	<u>47.4</u>	<u>49.1</u>
94227	<u>48.8</u>	<u>45.2</u>	<u>47.0</u>	<u>44.7</u>	<u>47.4</u>	<u>47.7</u>	<u>49.9</u>
LASB50442 68648	<u>49.4</u>	<u>45.3</u>	<u>46.9</u>	<u>45.8</u>	<u>47.7</u>	<u>48.4</u>	<u>49.7</u>
69644	<u>49.2</u>	<u>45.4</u>	<u>47.5</u>	<u>45.2</u>	<u>47.5</u>	<u>48.0</u>	<u>49.2</u>
LASB50443 69183	<u>50.1</u>	<u>45.2</u>	<u>46.8</u>	<u>45.2</u>	<u>47.8</u>	<u>48.0</u>	<u>48.9</u>
69638	<u>49.6</u>	<u>45.5</u>	<u>47.8</u>	<u>45.8</u>	<u>47.7</u>	<u>48.2</u>	<u>49.3</u>

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	50.4	45.6	47.2	45.4	48.2	48.3	50.0
68507	49.7	45.7	47.3	45.6	47.5	48.1	49.5
69568	48.8	45.0	42.1	44.8	47.2	47.5	49.3
69553	48.4	44.8	46.5	44.9	46.8	47.3	48.7
69598	48.2	44.6	46.9	44.3	47.2	47.3	48.6
92472	48.4	45.0	46.8	46.1	47.2	47.7	48.7
LASB50559	92459	49.0	45.2	46.9	45.6	47.4	47.8
69015	49.5	45.5	47.3	45.9	47.6	48.2	49.6
69639	49.3	45.6	47.1	45.7	47.7	48.3	49.4
69637	49.6	45.5	47.2	46.7	48.2	48.7	49.6
End Time (6.[14])	1355	1328	1332	1344	1419	1309	1310
6.[14]	WO: EP WO: AF	WO: FA WO: AF	WO: GA WO: AF	WO: VON WO: MZ	WO: LEP WO: FA	WO: EP WO: FA	WO: LEP WO: FA

Comments:

N/A

TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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6.[18] Performed by:

<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>100497 EP</u>	<u>12-5-16</u>	
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>Juan Garcia</u>	<u>1169890</u>	<u>J</u>	<u>12-5-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>174963 FA</u>	<u>F</u>	<u>12-6-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>Juan Garcia</u>	<u>1169890</u>	<u>J</u>	<u>12-6-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Theresa Aguirre</u>	<u>Theresa Aguirre</u>	<u>1169890</u>	<u>T</u>	<u>12-07-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>Juan Garcia</u>	<u>1169890</u>	<u>J</u>	<u>12-07-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>239859 VM</u>	<u>V</u>	<u>12/08/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date

<u>MAN ZOGO</u>	<u>MAN ZOGO</u>	<u>311676 MZ</u>	<u>12-09-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>100497 EP</u>	<u>12-09-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>174963 FA</u>	<u>12-09-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>100497 EP</u>	<u>12-10-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>174963 FA</u>	<u>12-10-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>100497 EP</u>	<u>12-11-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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<u>Fabian Araya</u>	<u>Fabian Araya</u>	<u>174963 FA</u>	<u>12-11-16</u>
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Waste Operator (print)	Signature	Z#	Initials	Date
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9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POC's.

	Monday 6.[4] Date & Start Time: 12-5-16 / 1356	Tuesday 6.[4] Date & Start Time: 12-6-16 / 1315	Wednesday 6.[4] Date & Start Time: 12-07-16 / 1322	Thursday 6.[4] Date & Start Time: 12-08-16 / 1335	Friday 6.[4] Date & Start Time: 12-9-16 / 1412	Saturday 6.[4] Date & Start Time: 12-10-16 / 1300	Sunday 6.[4] Date & Start Time: 12-11-16 / 1300
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TA-54-0375 Cell 3

Calibrated infrared thermometer (4.2.1[2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>
Ambient Temperature (6.[5])	<u>49.8</u> °F	<u>46.1</u> °F	<u>46.3</u> °F	<u>44.5</u> °F	<u>45.7</u> °F	<u>46.6</u> °F	<u>49.6</u> °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT			
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
69519	<u>49.0</u>	<u>44.6</u>	<u>46.1</u>	<u>45.2</u>	<u>46.7</u>	<u>47.6</u>	<u>48.3</u>
69645	<u>48.8</u> ^{EP} ₁₀₀₄₉₇ <u>48.9</u>	<u>45.4</u>	<u>46.3</u>	<u>44.4</u>	<u>46.3</u>	<u>46.9</u>	<u>48.1</u>
94068	<u>48.5</u>	<u>44.7</u>	<u>47.1</u>	<u>44.1</u>	<u>46.7</u>	<u>47.2</u>	<u>48.7</u>
93605	<u>49.0</u>	<u>44.8</u>	<u>47.4</u>	<u>45.1</u>	<u>46.7</u>	<u>47.3</u>	<u>48.4</u>
69548	<u>49.1</u>	<u>44.4</u>	<u>46.9</u>	<u>43.3</u>	<u>46.6</u>	<u>48.0</u>	<u>49.2</u>
69604	<u>48.8</u>	<u>44.2</u>	<u>46.0</u>	<u>44.1</u>	<u>46.2</u>	<u>46.9</u>	<u>48.5</u>
LASB50529	<u>48.2</u>	<u>44.6</u>	<u>46.2</u>	<u>44.6</u>	<u>45.4</u>	<u>46.4</u>	<u>48.8</u>
LASB50418	<u>48.3</u>	<u>44.5</u>	<u>46.3</u>	<u>43.8</u>	<u>45.5</u>	<u>46.3</u>	<u>48.7</u>
69036	<u>48.3</u>	<u>44.2</u>	<u>46.0</u>	<u>43.5</u>	<u>45.4</u>	<u>46.3</u>	<u>48.4</u>
LASB50451	<u>48.3</u>	<u>44.1</u>	<u>46.1</u>	<u>44.8</u>	<u>45.4</u>	<u>46.4</u>	<u>48.0</u>
69559	<u>48.2</u>	<u>44.1</u>	<u>46.3</u>	<u>43.7</u>	<u>46.6</u>	<u>46.7</u>	<u>48.3</u>
LASB50448	<u>48.6</u>	<u>45.1</u>	<u>47.8</u>	<u>43.6</u>	<u>45.9</u>	<u>46.6</u>	<u>48.2</u>

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Z# 100497
 INITIAL EP DATE 12-5-16

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 3 (continued)							
87827	49.3	43.4	44.6	44.3	46.1	47.5	49.0
87826	47.8	43.3	45.0	44.0	45.7	47.2	48.6
87823	48.0	43.1	44.3	43.8	44.9	46.8	47.5
87825	49.0	43.6	44.3	43.2	44.8	45.9	47.9
End Time (6.[14])	1359	1321	1326	1339	1415	1304	1305
6.[14]	WO: EP WO: JH	WO: EA WO: JH	WO: SJ WO: JH	WO: VM WO: MZ	WO: EP WO: FA	WO: EP WO: EA	WO: EP WO: EA

Comments:

J/C

TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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6.[18] Performed by:

Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	12-5-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	169840	JK	12-5-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Areaya	<i>Fabian Areaya</i>	174903	FA	12-6-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	169840	JG	12-6-16
Waste Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	<i>Tina Aguirre</i>	169840	AT	12-07-16
Waste Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	<i>Juan Garcia</i>	169840	JG	12-07-16
Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	<i>Valerie Martinez</i>	1004058	Von	12/08/16
Waste Operator (print)	Signature	Z#	Initials	Date

MATT ZOCCHI	<i>Matt Zocchi</i>	100407	MB	112-08-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	112-09-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Areaya	<i>Fabian Areaya</i>	174903	FA	112-09-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	112-10-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Areaya	<i>Fabian Areaya</i>	174903	FA	112-10-16
Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	<i>Edward Pacheco</i>	100407	EP	112-11-16
Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Areaya	<i>Fabian Areaya</i>	174903	FA	112-11-16
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 2

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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 12-12-16/1541	Tuesday 6.[4] Date & Start Time: 12-13-16/1309	Wednesday 6.[4] Date & Start Time: 12-14-16/1335	Thursday 6 [4] Date & Start Time: 12-15-16/1323	Friday 6.[4] Date & Start Time: 12-16-16/1313	Saturday 6.[4] Date & Start Time: 12-17-16/1311	Sunday 6.[4] Date & Start Time: 12-18-16/1314
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975
Ambient Temperature (6 [5])	47.5°F	50.2 °F	51.7 °F	51.2 °F	50.4 °F	45.5 °F	42.6 °F
(S) Temperature ≤ 75°F SR 4.ESS 5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
68685	47.5	50.0	51.1	52.2	50.3	47.1	44.1
68540	47.0	49.3	51.5	50.8	50.1	40.9	43.7
LA000000070503	68553	47.1	49.7	51.4	51.5	50.2	47.0
69445	47.6	50.5	51.2	50.5	50.3	47.8	44.6
69618	47.6	49.8	51.3	51.5	50.1	47.10	44.4
69013	47.5	49.8	52.0	51.5	50.5	47.9	44.5
LASB50522	69076	47.6	50.3	50.9	51.0	50.8	47.5
LASB50452	69490	47.5	49.4	51.0	50.9	50.3	47.2
LASB50431	69280	47.9	49.5	51.2	51.9	50.1	47.3
LASB50069	69208	47.6	49.2	50.8	50.8	50.1	47.4
LASB50073	69079	47.8	49.0	50.8	50.3	50.3	47.2
69636	47.6	50.8	51.2	50.8	50.0	47.4	44.6

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DATE 12-12-16

TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 1 (continued)							
69616	47.7	49.4	51.0	50.2	50.3	47.16	44.9
69417	N/A						
69620	47.7	48.9	51.7	51.3	50.3	47.6	44.8
69520	47.7	50.1	51.7	52.8	50.6	47.8	45.1
69641	48.3	50.1	51.4	51.7	51.0	48.2	45.1
69298	47.9	49.8	51.9	52.1	50.5	47.9	45.3
LASB02203	92669	47.9	49.9	51.4	51.9	50.6	47.7
End Time (6.[14])		1545	1313	1339	1327	1316	1314
6.[14]	WO: EP WO: LZ	WO: EP WO: MZ	WO: EM WO: EM	WO: VM WO: MZ	WO: VM WO: EM	WO: VM WO: EM	WO: VM WO: EM

Comments: NO Comments

ATTACHMENT 3

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6.[18] Performed by:

<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>1004971</u>	<u>ED</u>	<u>12-13-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Leon Montoya</u>	<u>Leon Montoya</u>	<u>1191426</u>	<u>LM</u>	<u>12-12-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Edward Pacheco</u>	<u>Edward Pacheco</u>	<u>1004971</u>	<u>ED</u>	<u>12-13-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>MATT ZOCCHI</u>	<u>Matt Zocchi</u>	<u>131676</u>	<u>MZ</u>	<u>12/13/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Tina Aguirre</u>	<u>Tina Aguirre</u>	<u>1195261</u>	<u>TA</u>	<u>12-14-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Leon Montoya</u>	<u>Leon Montoya</u>	<u>1195261</u>	<u>LM</u>	<u>12-14-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>239958</u>	<u>VM</u>	<u>12-15-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date

<u>MATT ZOCCHI</u>	<u>Matt Zocchi</u>	<u>131676</u>	<u>MZ</u>	<u>12/15/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>239958</u>	<u>VM</u>	<u>12/16/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hauser</u>	<u>Robert Hauser</u>	<u>1291781</u>	<u>RH</u>	<u>12/16/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>239958</u>	<u>VM</u>	<u>12/17/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hauser</u>	<u>Robert Hauser</u>	<u>1291781</u>	<u>RH</u>	<u>12/17/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>239958</u>	<u>VM</u>	<u>12/18/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Robert Hauser</u>	<u>Robert Hauser</u>	<u>1291781</u>	<u>RH</u>	<u>12/18/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

<u>SOM (print)</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3

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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6 [4] Date & Start Time: 12-12-16 / 1535	Tuesday 6 [4] Date & Start Time: 12-13-16 / 1304	Wednesday 6 [4] Date & Start Time: 12-14-16 / 1330	Thursday 6 [4] Date & Start Time: 12-15-16 / 1315	Friday 6 [4] Date & Start Time: 12-16-16 / 1309	Saturday 6 [4] Date & Start Time: 12-17-16 / 1307	Sunday 6 [4] Date & Start Time: 12-18-16 / 1309
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104840	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104842
Ambient Temperature (6.[5])	47.5 °F	50.2 °F	50.3 °F	51.3 °F	49.4 °F	47.6 °F	45.2 °F
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6 [6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT						
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
LASB02198 68408	47.6	48.5	50.1	50.3	49.3	47.4	44.6
68638	47.2	49.0	50.6	49.5	49.2	47.6	45.0
69615	47.6	49.6	50.3	49.9	49.6	48.1	45.5
69635	47.7	49.5	50.6	50.7	50.0	48.4	45.8
69642	47.8	49.0	50.6	50.0	50.3	48.1	45.4
69630	47.5	49.9	50.3	50.2	49.8	47.9	45.3
69633	47.7	49.8	50.4	49.7	50.1	48.2	45.7
68430	47.7	49.1	50.0	51.4	49.7	47.9	45.1
68631	47.5	49.1	49.8	49.7	49.3	47.4	44.9
69634	47.0	47.1	49.9 49.8	51.4 49.3	49.3	47.5	44.9
68567	46.9	48.3	50.2 49.9	49.3	49.1	47.3	44.5
94227	47.4	48.9	49.9 50.0	49.7	49.6	47.5	45.3
LASB50442 68648	47.6	48.0	49.8 49.7	49.4	49.6	47.5	45.1
69644	47.4	48.8	49.9	49.2	49.7	47.7	45.3
LASB50443 69183	47.2	48.6	50.2	49.9	49.0	47.9	45.5
69638	47.7	49.3	50.2	49.4	50.0	47.9	45.5

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Z# 100497

INITIAL ED

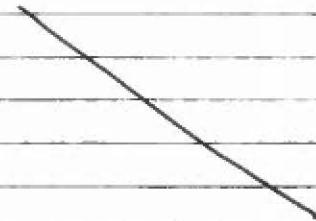
DATE 12.12.16

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	47.6	49.6	50.4	50.4	49.8	47.7	45.6
68507	47.5	49.3	50.2	49.5	49.7	47.7	45.5
69568	47.2	48.6	49.4	50.0	49.6	47.1	44.8
69553	47.0	48.8	49.9	49.2	49.3	47.0	44.3
69598	47.0	48.6	49.8	49.3	49.7	47.2	44.9
92472	47.1	49.1	49.9	49.1	49.3	47.1	44.9
LASB50559	92459	47.3	48.5	50.0	50.8	49.1	49.3
69015		47.3	50.0	50.1	49.7	50.8	49.9
69639		47.6	49.2	50.1	51.4	49.7	49.9
69637		47.5	49.2	50.0	51.9	50.1	47.8
End Time (6 [14])	1540	1308 1308 1308 1308 1308 1308	1334	1322	1312	1310	1313
6[14]	WO: EP WO: LM	WO: EP WO: MZ	WO: TA WO: LM	WO: VM WO: MZ	WO: VM WO: TA	WO: VM WO: TA	WO: VM WO: TA

Comments: NO Comments



ATTACHMENT 4

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6.[18] Performed by:

Edward J. Parker	Edward Parker	100497	EP	1	12-12-16
Waste Operator (print)	Signature	Z#	Initials	Date	
Leon Montoya		191526	LM		12-12-16
Waste Operator (print)	Signature	Z#	Initials	Date	
Edward Parker	Edward Parker	100497	EP	1	12-13-16
Waste Operator (print)	Signature	Z#	Initials	Date	
MATT ZOCCHI		31676	MZ		12/13/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Tina Aguirre		100497	KA		12-14-16
Waste Operator (print)	Signature	Z#	Initials	Date	
Leon Montoya		191526	LM		12-14-16
Waste Operator (print)	Signature	Z#	Initials	Date	
Valerie Martinez	Valerie Martinez	329958	VM		12-15-16
Waste Operator (print)	Signature	Z#	Initials	Date	

MATT ZOCCHI		31676	MZ		12/18/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Valerie Martinez	Valerie Martinez	329958	VM		12/18/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Robert Hausel		29178	RH		12/19/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Valerie Martinez	Valerie Martinez	329958	VM		12/17/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Robert Hausel		29178	RH		12/17/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Valerie Martinez	Valerie Martinez	329958	VM		12/18/16
Waste Operator (print)	Signature	Z#	Initials	Date	
Robert Hausel		29178	RH		12/19/16
Waste Operator (print)	Signature	Z#	Initials	Date	

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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ATTACHMENT 4

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: 12-12-16 / 1530	Tuesday 6.[4] Date & Start Time: 12-13-16 / 1300	Wednesday 6.[4] Date & Start Time: 12-14-16 / 1324	Thursday 6.[4] Date & Start Time: 12-15-16 / 1309	Friday 6.[4] Date & Start Time: 12-16-16 / 1300	Saturday 6.[4] Date & Start Time: 12-17-16 / 1301	Sunday 6.[4] Date & Start Time: 12-18-16 / 1304
--	--	---	---	--	--	--	--

TA-54-0375 Cell 3

Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842
Ambient Temperature (6 [5])	47.3 °F	49.2 °F	48.9 °F	50.2 °F	48.4 °F	47.2 °F	44.0 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT						
Container ID #	Temp (°F) (6 [8]/6 [9]/6 [10])						
69519	46.9	49.9	49.8	50.3	49.4	46.6	45.1
69645	47.3	48.9	49.1	49.0	48.5	46.9	45.2
94068	46.9 <small>100497 12-12-16</small>	49.8 <small>100497 12-12-16</small>	49.9	49.0	48.10	48.4	47.2
93605	47.2	49.8	49.9	50.0	49.1	47.5	45.4
69548	47.2	49.3	49.7	49.3	48.5	47.3	44.9
69604	47.0	48.4	49.4	51.3	50.0	47.4	44.8
LASB50529	68665	46.8	49.5	49.0	49.1	48.5	47.1
LASB50418	69595	46.8	48.6	49.2	48.8	48.2	46.5
69036	46.9	49.0	49.6	48.6	48.4	46.4	44.5
LASB50451	69361	46.5	49.3	49.3	50.1	48.5	46.6
69559	46.7	48.8	49.3	48.9	48.2	47.1	44.4
LASB50448	69491	46.8	48.7	49.6	49.0	48.5	47.2

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Z# 100497
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ATTACHMENT 4

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6 [8]/6.[9]/6 [10])	Temp (°F) (6.[8]/6.[9]/6 [10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6 [8]/6.[9]/6 [10])	Temp (°F) (6 [8]/6 [9]/6.[10])	Temp (°F) (6 [8]/6 [9]/6 [10])
TA-54-0375 Cell 3 (continued)							
87827	47.2	49.4	50.1	50.0	49.4	47.4	45.6
87826	47.3	49.8	50.4	49.7	49.0	47.1	45.1
87823	46.6	50.1	49.5	50.4	48.9	46.1	44.7
87825	47.4	49.9	50.7	50.1	48.8	45.9	44.3
End Time (6 [14])	1534	1303	1329	1314	1308	1306	1308
6[14]	WO: EP WO: mm	WO: ZD WO: MZ	WO: AT WO: EM	WO: VM WO: MZ	WO: VM BB	WO: VM BB	WO: VM BB

Comments: NO Comments

ATTACHMENT 2

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6.[18] Performed by:

<u>Edward Parker</u>	<u>Edward Parker</u>	<u>100407 EP 1/2-12-16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Tom Montoya</u>	<u>Tom Montoya</u>	<u>1/9/15261 MZ 1/2-12-16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Edward Parker</u>	<u>Edward Parker</u>	<u>100407 EP 1/2-13-16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>MATT ZOCO</u>	<u>Matt Zoco</u>	<u>1311676 MZ 1/2/13/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Tom Aguirre</u>	<u>Tom Aguirre</u>	<u>124921 QA 1/2-14-16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Tom Montoya</u>	<u>Tom Montoya</u>	<u>1/9/15261 MZ 1/2-14-16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>1239958 RON 1/2/15/16</u>
Waste Operator (print)	Signature	Z# Initials Date

<u>MATT ZOCO</u>	<u>Matt Zoco</u>	<u>1311676 MZ 1/2/15/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>1239958 RON 1/2/16/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Robert Haasel</u>	<u>Robert Haasel</u>	<u>1291728 RON 1/2/16/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>1239958 RON 1/2/17/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Robert Haasel</u>	<u>Robert Haasel</u>	<u>1291728 RON 1/2/17/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Valerie Martinez</u>	<u>Valerie Martinez</u>	<u>1239958 RON 1/2/18/16</u>
Waste Operator (print)	Signature	Z# Initials Date
<u>Robert Haasel</u>	<u>Robert Haasel</u>	<u>1291728 RON 1/2/18/16</u>
Waste Operator (print)	Signature	Z# Initials Date

9.1[2] Reviewed by:

<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
SOM (print)	Signature	Z#	Initials

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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: <u>12/19/16/1619</u>	Tuesday 6.[4] Date & Start Time: <u>12-20-16/1344</u>	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal Due Date: <u>06-20-17</u> File Number: <u>101975</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal Due Date: <u>06-20-17</u> File Number: <u>101975</u>	Brand: Model	Brand: Model	Brand: Model	Brand: Model	Brand: Model
Ambient Temperature (6.[5])	<u>41.2</u> °F	<u>46.0</u> °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	<u>40.7</u>	<u>46.7</u>					
LA00000070503	68540 40.7 <u>40.6</u>	<u>46.8</u>					
68553	<u>40.6</u>	<u>46.8</u>					
69445	<u>41.0</u>	<u>47.0</u>					
69618	<u>40.9</u>	<u>47.7</u>					
69013	<u>41.4</u>	<u>47.8</u>					
LASB50522	69076	<u>41.5</u>	<u>47.4</u>				
LASB50452	69490	<u>41.4</u>	<u>47.3</u>				
LASB50431	69280	<u>41.1</u>	<u>47.3</u>				
LASB50069	69208	<u>41.3</u>	<u>46.8</u>				
LASB50073	69079	<u>41.4</u>	<u>47.0</u>				
69636	<u>41.4</u>	<u>47.4</u>					

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell I (continued)							
69616	42.4	47.3					
69417	N/A						
69620	41.9	47.8					
69520	41.8	47.2					
69641	41.9	47.8					
69298	42.1	47.7					
LASB02203	92669	41.9	47.7				
End Time (6.[14])		1622	1349				
6.[14]	WO: LM	WO: LA	WO: _____				
	WO: FL	WO: LM	WO: _____				

Comments:

ATTACHMENT 2

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6.[18] Performed by:

<u>Luis Montoya</u>	<u>LHM</u>	<u>12-19-16</u>	/	/	/	/
Waste Operator (print)	Signature	Z#	Initials	Date		
<u>Fabian Huaya</u>	<u>FH</u>	<u>174663</u>	<u>FIA</u>	<u>12-19-16</u>		
Waste Operator (print)	Signature	Z#	Initials	Date		
<u>Lina Aguirre</u>	<u>LA</u>	<u>191526</u>	<u>LM</u>	<u>12-20-16</u>		
Waste Operator (print)	Signature	Z#	Initials	Date		
<u>Luis Montoya</u>	<u>LHM</u>	<u>12-19-16</u>	/	/	/	/
Waste Operator (print)	Signature	Z#	Initials	Date		
/	/	/	/	/		
Waste Operator (print)	Signature	Z#	Initials	Date		
/	/	/	/	/		
Waste Operator (print)	Signature	Z#	Initials	Date		
/	/	/	/	/		
Waste Operator (print)	Signature	Z#	Initials	Date		
/	/	/	/	/		

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

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**NOTE** Containers marked by an (*) are POC's.

	Monday 6.[4] Date & Start Time: <u>12-19-16/1614</u>	Tuesday 6.[4] Date & Start Time: <u>12-20-16/1338</u>	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-29-17</u> File Number <u>104442</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>104842</u>	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.[5])	<u>41.8</u> °F	<u>47.7</u> °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198	68408	<u>41.6</u>	<u>47.1</u>				
68638		<u>41.2</u>	<u>47.8</u>				
69615		<u>41.6</u>	<u>48.2</u>				
69635		<u>41.5</u>	<u>48.3</u>				
69642		<u>41.5</u>	<u>48.7</u>				
69630		<u>41.7</u>	<u>48.0</u>				
69633		<u>40.7</u>	<u>48.1</u>				
68430		<u>41.3</u>	<u>47.7</u>				
68631		<u>41.9</u>	<u>47.7</u>				
69634		<u>41.3</u>	<u>47.1</u>				
68567		<u>41.1</u>	<u>47.0</u>				
94227		<u>41.6</u>	<u>47.4</u>				
LASB50442	68648	<u>41.1</u>	<u>47.7</u>				
69644		<u>40.8</u>	<u>47.9</u>				
LASB50443	69183	<u>41.6</u>	<u>47.8</u>				
69638		<u>41.8</u>	<u>46.2</u>				

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Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 2 (continued)							
68624	41.7	49.2					
68507	41.9	47.5					
69568	41.2	47.2					
69553	40.56	46.8					
69598	41.1	46.7					
92472	42.3	47.4					
LASB50559	41.4	47.5					
69015	41.8	47.6					
69639	41.7	48.2					
69637	41.7	47.6 ¹⁰ 48.6					
End Time (6.[14])	1618	1343					
6.[14]	WO: LM WO: FA	WO: TA WO: LM	WO: _____ WO: _____				

Comments:

ATTACHMENT 3

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6.[18] Performed by:

6.[18] Performed by:	<u>Leesa Montoya</u>	<u>Signature</u>	<u>1191526124</u>	<u>12-19-16</u>
Waste Operator (print)		Signature	Z#	Initials
<u>Fabien Araya</u>	<u>Fabien Araya</u>		<u>11746621</u>	<u>FAG</u>
Waste Operator (print)		Signature	Z#	Initials
<u>Tina Aguirre</u>	<u>Tina Aguirre</u>		<u>1149771041</u>	<u>12-20-16</u>
Waste Operator (print)		Signature	Z#	Initials
<u>Leesa Montoya</u>	<u>Leesa Montoya</u>		<u>1191526124</u>	<u>12-20-16</u>
Waste Operator (print)		Signature	Z#	Initials
			/	/
Waste Operator (print)		Signature	Z#	Initials
			/	/
Waste Operator (print)		Signature	Z#	Initials
			/	/
Waste Operator (print)		Signature	Z#	Initials
			/	/

9.1[2] Reviewed by:

/ / / / /

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (*) are POCs.

	Monday 6.[4] Date & Start Time: <u>12/19/16/ 1610</u>	Tuesday 6.[4] Date & Start Time: <u>12/20/16/ 1333</u>	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
--	--	---	--	---	---------------------------------------	---	---------------------------------------

TA-54-0375 Cell 3

Calibrated infrared thermometer (4.2.1[2][B])	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>10172016</u> <u>10172016</u>	Brand <u>Fluke</u> Model <u>561</u> Cal Due Date <u>01-28-17</u> File Number <u>10172016</u> <u>10172016</u>	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.[5])	<u>40.1</u> °F	<u>46.8</u> °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	<input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input checked="" type="checkbox"/> SAT - UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	<u>40.2</u>	<u>47.8</u>					
69645	<u>40.2</u>	<u>48.2</u>					
94068	<u>40.6</u>	<u>48.0</u>					
93605	<u>40.5</u>	<u>48.3</u>					
69548	<u>40.3</u>	<u>48.3</u>					
69604	<u>40.5</u>	<u>47.7</u>					
LASB50529	<u>40.4</u>	<u>47.9</u>					
LASB50418	<u>40.7</u>	<u>47.1</u>					
69036	<u>39.6</u>	<u>48.2</u>					
LASB50451	<u>40.0</u>	<u>47.2</u>					
69559	<u>40.3</u>	<u>47.6</u>					
LASB50448	<u>40.7</u>	<u>47.9</u>					

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])						
TA-54-0375 Cell 3 (continued)							
87827	40.1	48.5					
87826	40.2	48.5					
87823	39.3	47.7					
87825	39.2	47.6					
End Time (6.[14])	1613	1337					
6.[14]	WO: LM WO: FA	WO: OA WO: LM	WO: _____ WO: _____				

Comments:

TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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6.[18] Performed by:

<u>Fabian Areaya</u>	<u>/</u>	<u>1/91526</u>	<u>144</u>	<u>1/219/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Fabian Areaya</u>	<u>/</u>	<u>1/74913</u>	<u>FIA</u>	<u>1/219/16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Lina Aguirre</u>	<u>/</u>	<u>1/49177</u>	<u>QAT</u>	<u>1/212-20-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>Lina Aguirre</u>	<u>/</u>	<u>1/91526</u>	<u>144</u>	<u>1/212-20-16</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Waste Operator (print)	Signature	Z#	Initials	Date
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

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

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date
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