From: Juarez, Catherine L
Sent: Wednesday, February 15, 2017 3:19 PM
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Subject: Monthly Technical Summary January 19, 2017 - February 15, 2017

Linked below is the written monthly technical summary January 19, 2017 – February 15, 2017. 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.

Please remember the following:

- Be wary of unexpected files as they may contain malware.
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NMED monthly written summary Feb 15 2017.pdf

Cathy Juarez for
Mark Haagenstad
EPC-CP
Office: (505) 665-2014

NMED / LANL Technical Summary

January 19, 2017 – February 15, 2017

Participants:

- New Mexico Environment Department: Siona Briley.
- LANL- NNSA – Los Alamos Field Office: Jordan Arnswald.
- LANL – Los Alamos National Security: Mark Haagenstad, Lydia Martinez 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.

- **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.
    - January 18, 2017 – February 14, 2017 HSG data (H_2, CO, CO_2 and N_2O) attached.
  - Other containers:
    - A minimum of once per month HSG sampling is conducted on 55-gallon drums or overpack containers.
      - Through February 14, 2017, LANL has completed HSG sampling for the month on 52 containers.
        - January 18, 2017 – February 14, 2017 HSG data (H_2, CO, CO_2 and N_2O) attached.

- **Additional measures currently underway**
  - Twice-weekly HSG sample collection on 55-gallon drums of remediated nitrate salt-bearing waste.
    - HSG data (H_2, CO, CO_2 and N_2O) attached for January 2017 and February 2017.
  - 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.

        - CO_2 values are adjusted by the quantity of CO_2 in the field blank (i.e., the amount of CO_2 in the air when the sample is taken is subtracted from the CO_2 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:

Next Call: Wednesday, March 15, 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 on-going chemistry / analytical work.	LANL	---	Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	---	Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL	---	Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	---	Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	---	Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	---	Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	---	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO_2 and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO_x.	LANL	---	Complete June 16, 2014

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

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

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

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

	Requested Information	Actionee	Status	Completion Date
36.	NMED request regarding LANL Causal Analysis associated with processing of nitrate salt-bearing waste at WCRRF – when document is Final.	LANL	Document is currently Draft 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 is becomes available.	Submitted 100 out of 586 RTRs and documentation on October 3, 2014. Submitted documentation for 101-200 containers on October 10, 2014. Submitted documentation for 201-300 containers on October 16, 2014. Submitted documentation for 301-400 containers on October 23, 2014. Submitted documentation for 401-500 containers on October 27, 2014. Submitted documentation for 501-586 containers on November 12, 2014. Submitted RTR Videos 101-150 on November 12, 2014. Submitted RTR Videos 151-200 on November 20, 2014. Submitted RTR Videos 201-250 on December 1, 2014. Submitted RTR Videos 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL	---	Complete October 27, 2014
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft 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 depitions 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

	68685 - 68685				69553 - 69553				69615 - 69615				69616 - 69616				SB50069 - 69208			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17	309	790	10321	2122																
01/19/17	317	732	10428	2127	324	1237	20115	2476	277	899	15741	945	379	1051	14952	2300	1019	2250	36150	4400
01/20/17	285	758	9496	1928																
01/21/17	315	757	10465	2161																
01/22/17	312	740	10112	2061																
01/23/17	306	769	10393	2148	334	1250	20813	2564	281	891	16055	895	403	1124	15734	2394	1062	2319	36275	4467
01/24/17	302	762	10154	2086																
01/25/17	325	868	10638	2197																
01/26/17	318	825	10647	2230	317	1085	19712	2435	280	1030	15815	849	402	995	15553	2393	847	2237	34568	4204
01/27/17	334	778	10734	2262																
01/28/17	329	879	10155	2128																
01/29/17	325	790	10080	2109																
01/30/17	308	799	9767	2032	300	1035	17780	2125	284	908	15494	844	334	963	13251	2053	785	2075	32553	3957
01/31/17	318	740	10286	2075																
02/01/17	314	818	10065	2030																
02/02/17	311	730	10217	2103	341	1354	20372	2416	296	927	16206	850	406	1053	15508	2367	837	2229	35249	4222
02/03/17	331	815	10883	2247																
02/04/17	316	811	10511	2149																
02/05/17	314	865	10632	2173																
02/06/17	300	751	10416	2135	317	1095	19231	2346	279	1038	15816	855	314	969	13958	2120	868	2221	35091	4161
02/07/17	311	741	10784	2170																
02/08/17	299	795	10487	2092																
02/09/17	305	675	11130	2239	202	1128	17212	2083	280	954	16183	853	371	1089	15767	2399	948	2129	36731	4462
02/10/17	313	829	11400	2322																
02/11/17	305	805	11395	2270																
02/12/17	315	781	11747	2325																
02/13/17	259	740	10813	2184	309	1231	20528	2525	288	1033	17468	963	330	1079	15030	2271	898	2377	40161	4916
02/14/17	315	848	11629	2418																

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452 - 69076				SB50522 - 69490				68430 - 68430				68507 - 68507				70503 - 68540			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17					834	1544	17291	3947												
01/19/17	105	780	8939	1232	889	1517	17619	3991												
01/20/17					819	1535	16659	3760												
01/21/17					895	1685	18089	4092												
01/22/17					889	1621	17593	4037												
01/23/17	460	1201	15770	2122	867	1665	18543	4186												
01/24/17					844	1547	17229	3932												
01/25/17					904	1557	18231	4169												
01/26/17	476	1202	16270	2196	844	1658	17456	3972												
01/27/17					894	1622	17976	4115												
01/28/17					900	1521	17563	3990												
01/29/17					901	1544	17484	3999												
01/30/17	484	1204	15890	2128	814	1475	16065	3695												
01/31/17					840	1642	16740	3791												
02/01/17					748	1605	15691	3511									13	0	551	0
02/02/17	386	1300	14962	1992	814	1612	17140	3856												
02/03/17					885	1491	17986	4081												
02/04/17					889	1626	17608	4009												
02/05/17					880	1677	18127	4097												
02/06/17	338	1130	14633	1945	878	1696	18264	4195												
02/07/17					876	1481	17910	4062												
02/08/17					771	1576	16957	3874												
02/09/17	391	1047	13787	1843	827	1599	18771	4318												
02/10/17					792	1511	17038	3877												
02/11/17					817	1472	17895	4071												
02/12/17					892	1604	19177	4373												
02/13/17	407	1301	17372	2336	717	1662	18589	4284												
02/14/17					699	1491	17597	4050	210	673	9316	1496	113	106	2295	143				

Remediated Nitrate Salt Container Headspace Gas Analysis

	70503 - 68553				68567 - 68567				68624 - 68624				68631 - 68631				68638 - 68638			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17																				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17	57	103	1895	145																
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17																				
02/08/17									51	124	1973	234								
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17													18	0	1071	32	16	0	496	0

Remediated Nitrate Salt Container Headspace Gas Analysis

	69013 - 69013				69015 - 69015				69036 - 69036				69298 - 69298				69445 - 69445			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17									78	0	779	178								
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
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01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17	51	93	1918	105													335	870	10920	1142
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17													748	1603	18948	2827				
02/08/17					91	116	2326	159												
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69519 - 69519				69520 - 69520				69548 - 69548				69559 - 69559				69568 - 69568			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/18/17									14	0	1174	155	127	788	7229	2190				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17					157	370	5100	1661												
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17																				
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																	120	206	1308	667

Remediated Nitrate Salt Container Headspace Gas Analysis

	69598 - 69598				69604 - 69604				69618 - 69618				69620 - 69620				69630 - 69630			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/18/17					340	891	13663	3801												
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17									120	389	3825	436	489	1163	12357	2055				
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17																	434	1380	19780	1782
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69633 - 69633				69634 - 69634				69635 - 69635				69636 - 69636				69637 - 69637			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17																				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17																				
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17													323	786	12470	1538				
02/08/17	521	997	14814	1752					136	475	6546	454					147	732	5958	1554
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69638 - 69638				69639 - 69639				69641 - 69641				69642 - 69642				69644 - 69644			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17																				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17									542	1198	9503	3206								
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17													94	198	4148	404				
02/08/17	525	1051	11880	2062	191	460	7060	412									224	674	7272	1424
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69645 - 69645				93605 - 93605				94068 - 94068				94227 - 94227				SB02198 - 68408			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17																				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17																				
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17																				
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17													38	0	548	401				

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB02203 - 92669				SB50073 - 69079				SB50418 - 69595				SB50431 - 69280				SB50442 - 68648			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/18/17									252	776	11151	1250								
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17																				
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17	56	130	3201	138	567	1539	17180	3832					344	1045	13632	1785				
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																	306	815	8489	1628

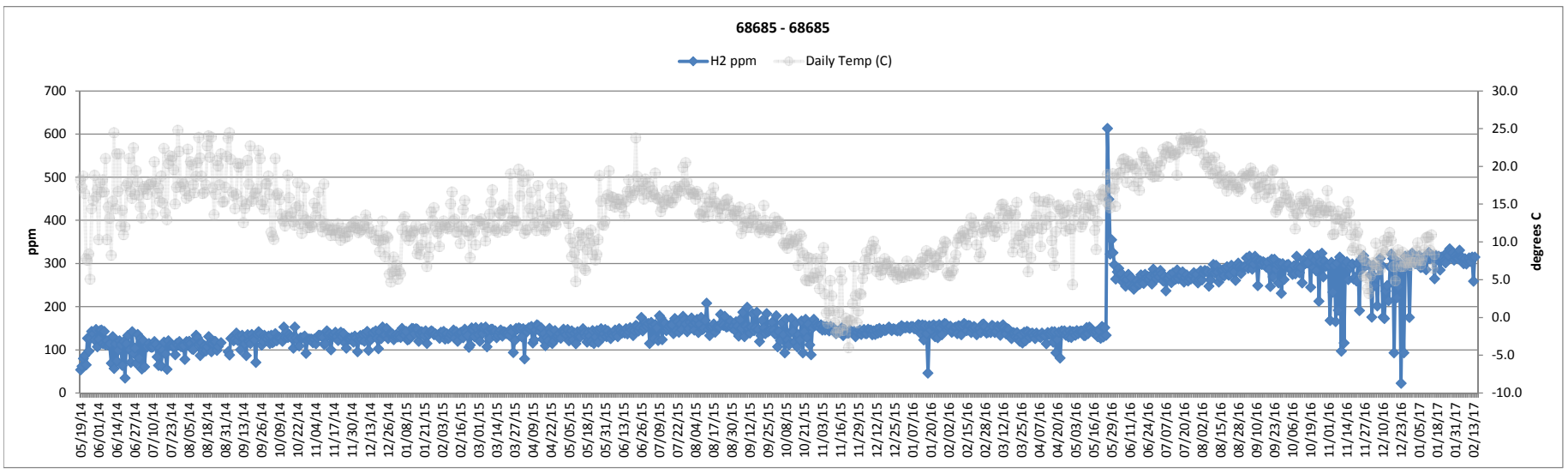
Remediated Nitrate Salt Container Headspace Gas Analysis

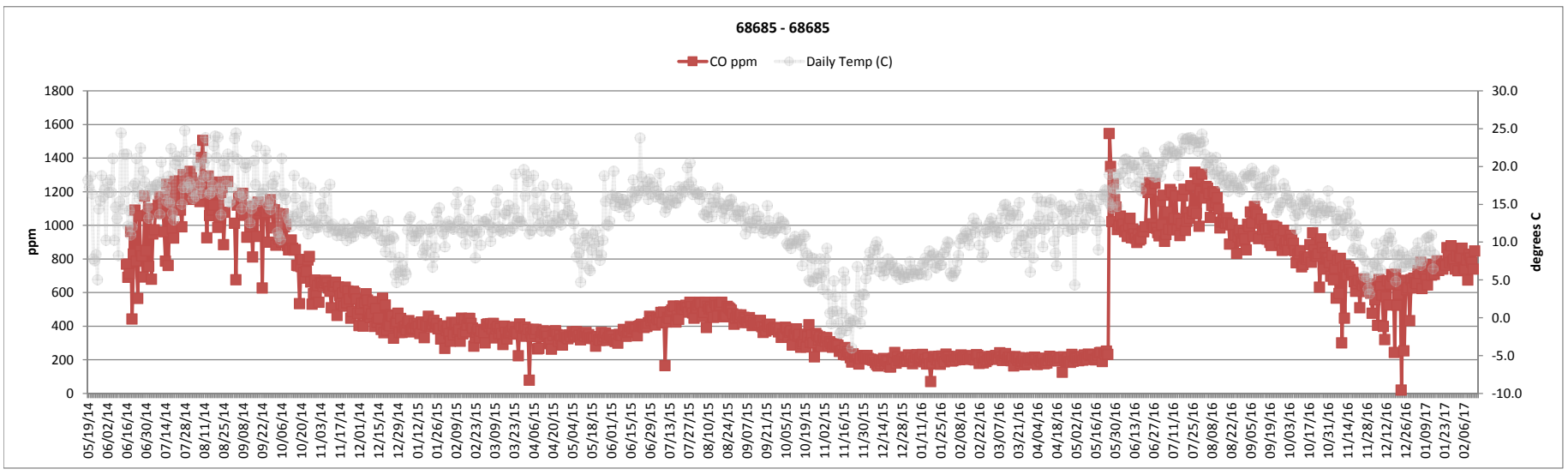
	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/18/17					852	1416	16373	2933	231	629	5826	778	249	672	7011	865				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17																				
02/02/17																				
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17	723	1446	15108	2966																
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17																	58	60	2294	79

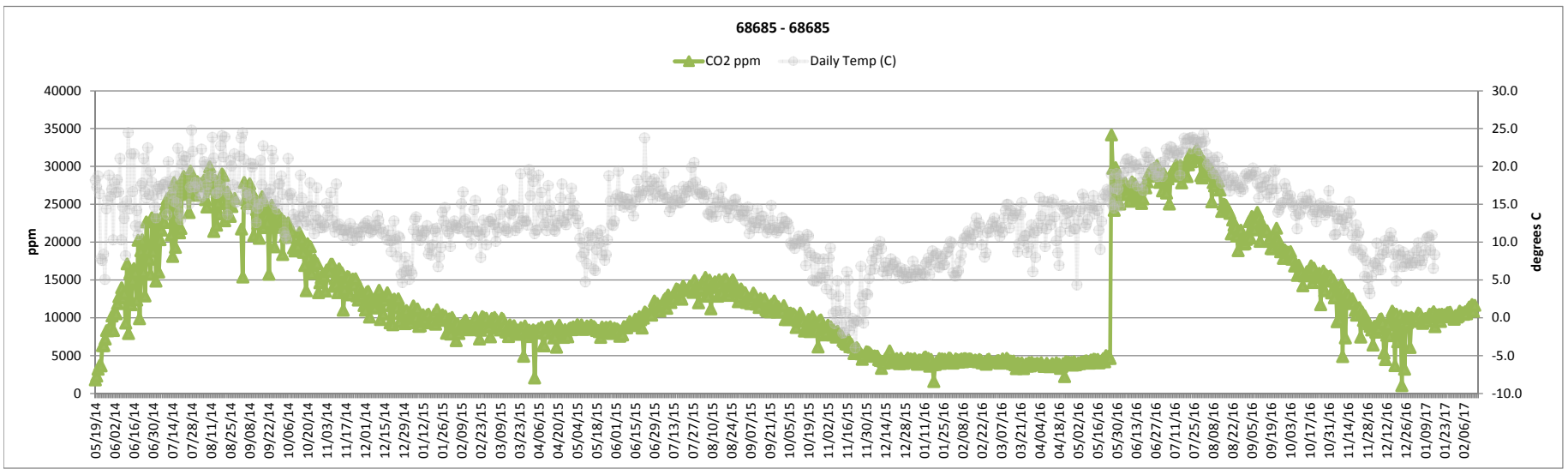
Remediated Nitrate Salt Container Headspace Gas Analysis

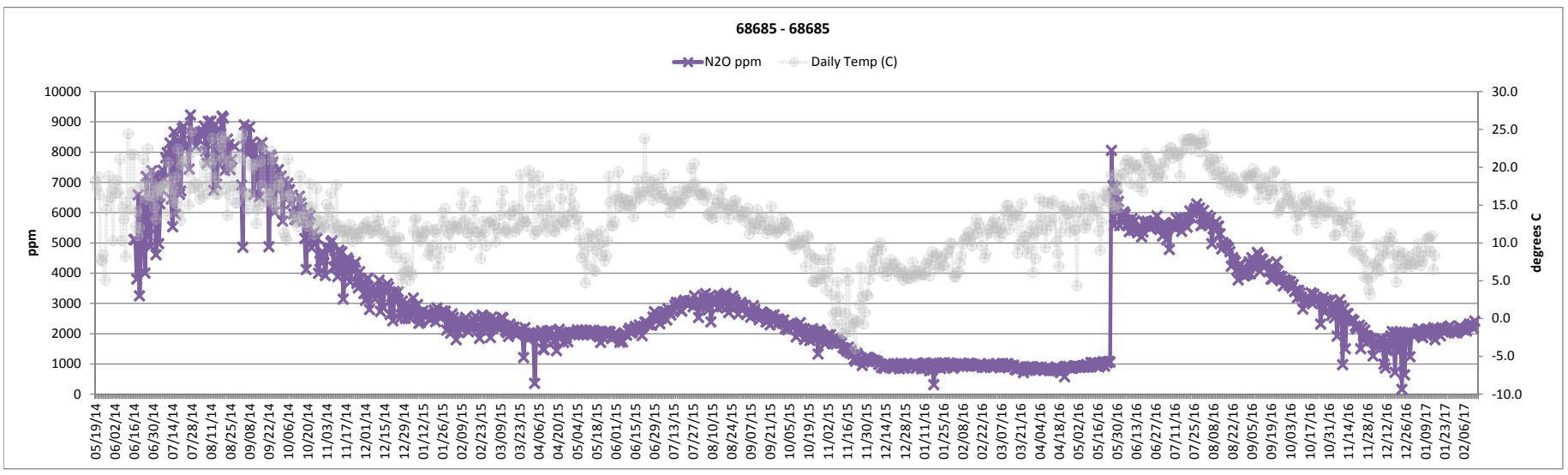
	SB50559 - 92472				87823				87825				87826				87827			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
01/18/17																				
01/19/17																				
01/20/17																				
01/21/17																				
01/22/17																				
01/23/17																				
01/24/17																				
01/25/17																				
01/26/17																				
01/27/17																				
01/28/17																				
01/29/17																				
01/30/17																				
01/31/17																				
02/01/17																				
02/02/17					150	125	2860	469	160	137	4047	646	197	234	6643	951	45	86	2844	259
02/03/17																				
02/04/17																				
02/05/17																				
02/06/17																				
02/07/17																				
02/08/17																				
02/09/17																				
02/10/17																				
02/11/17																				
02/12/17																				
02/13/17																				
02/14/17	70	141	3086	208																

Remediated Nitrate Salt Container Headspace Gas and Temperature

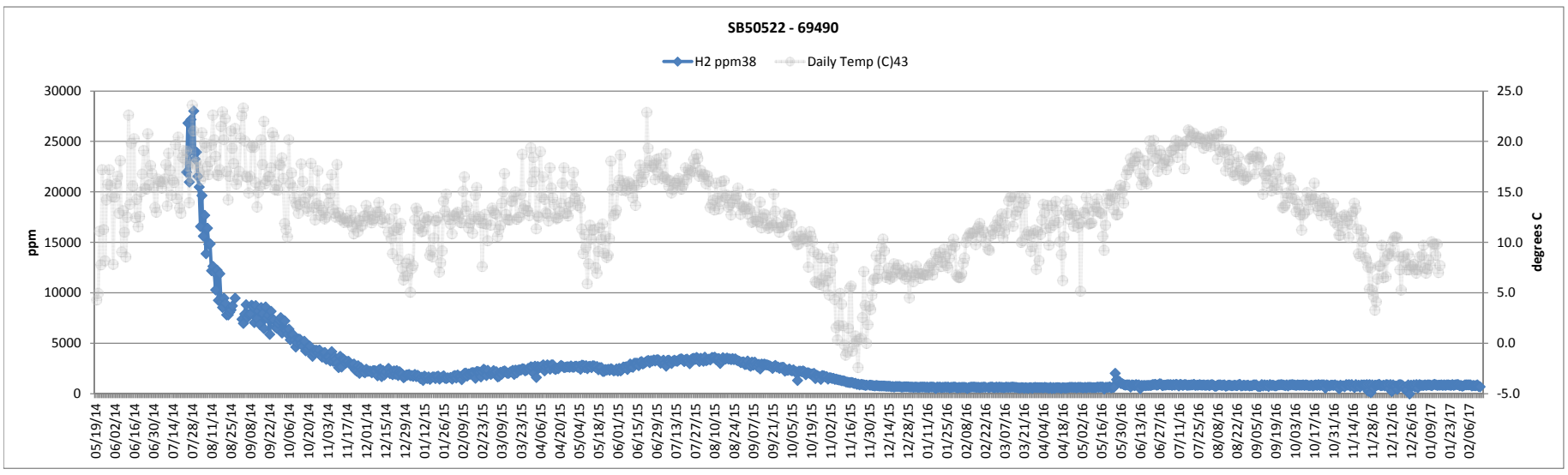


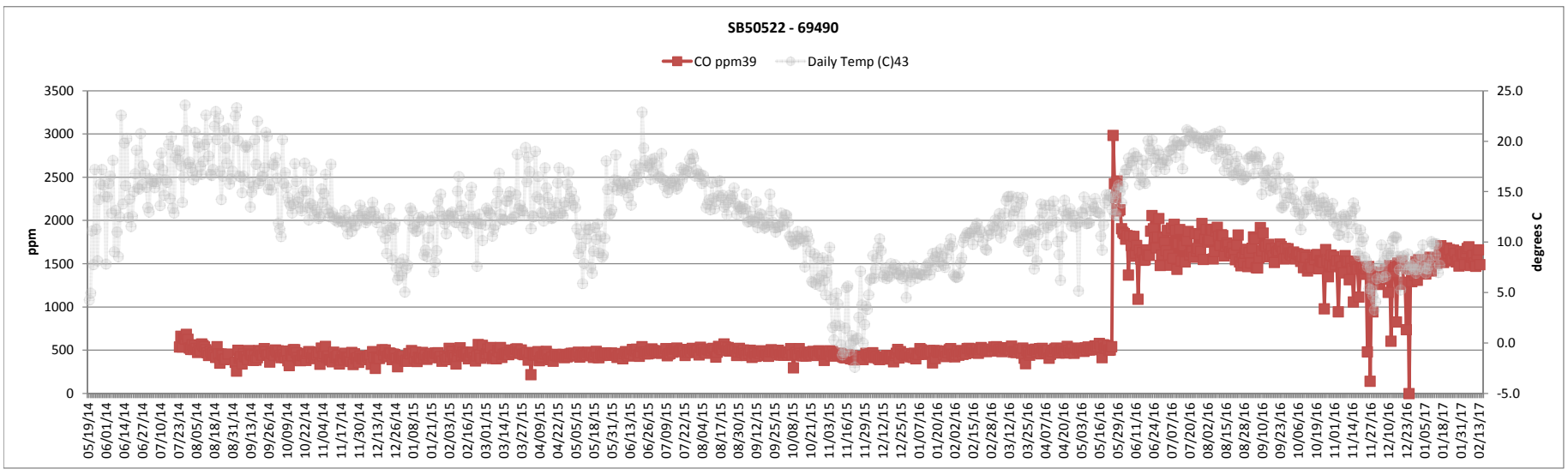


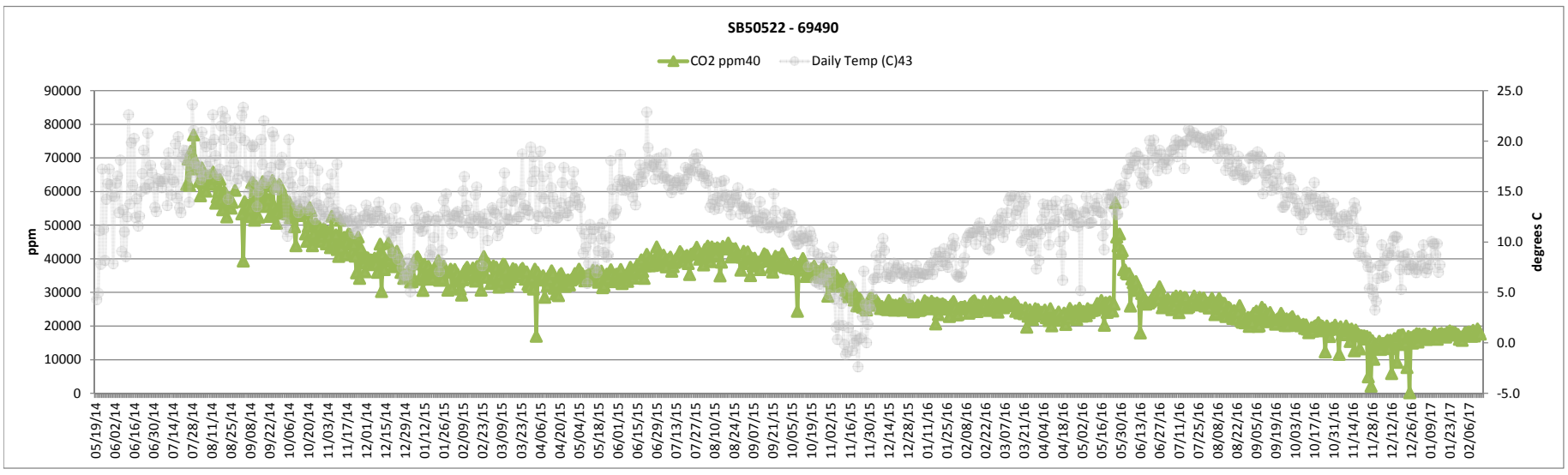


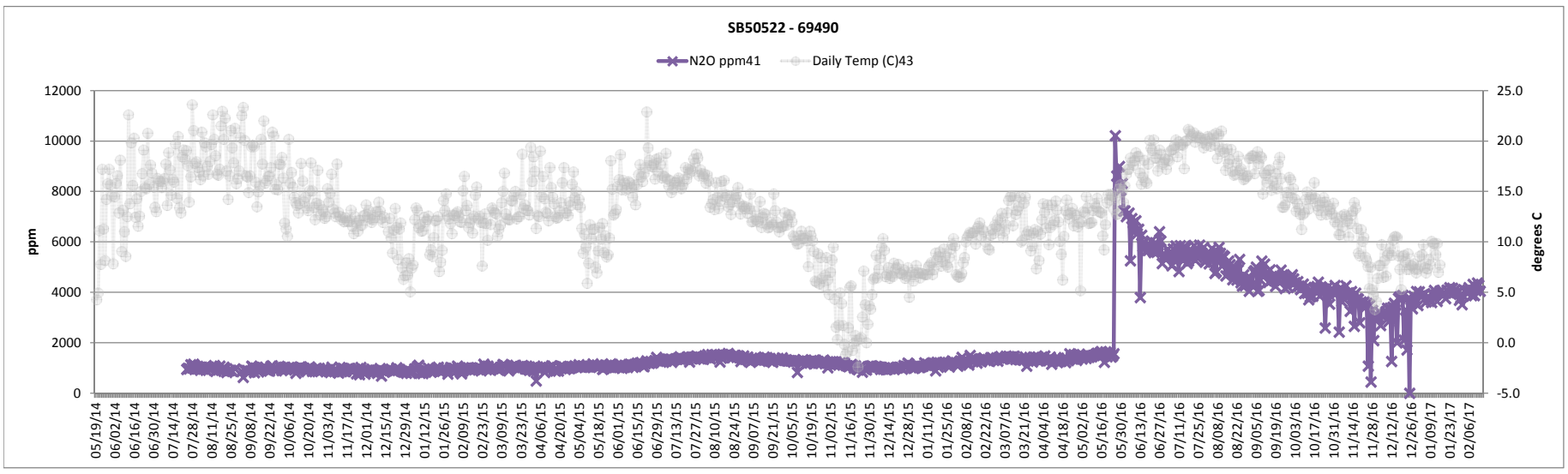


Remediated Nitrate Salt Container Headspace Gas and Temperature

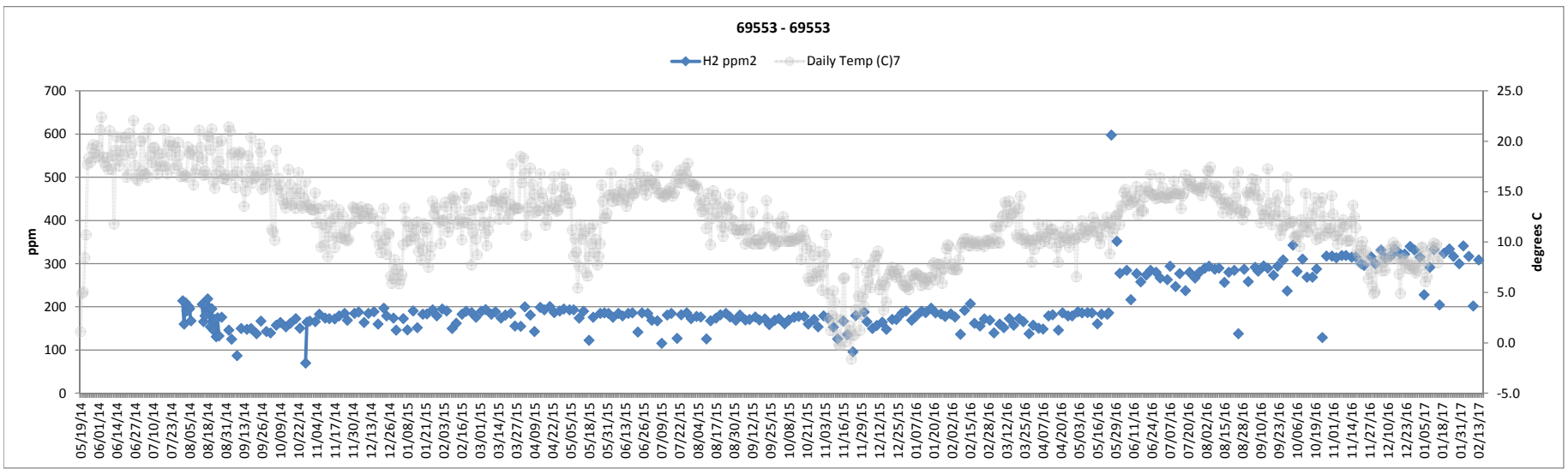


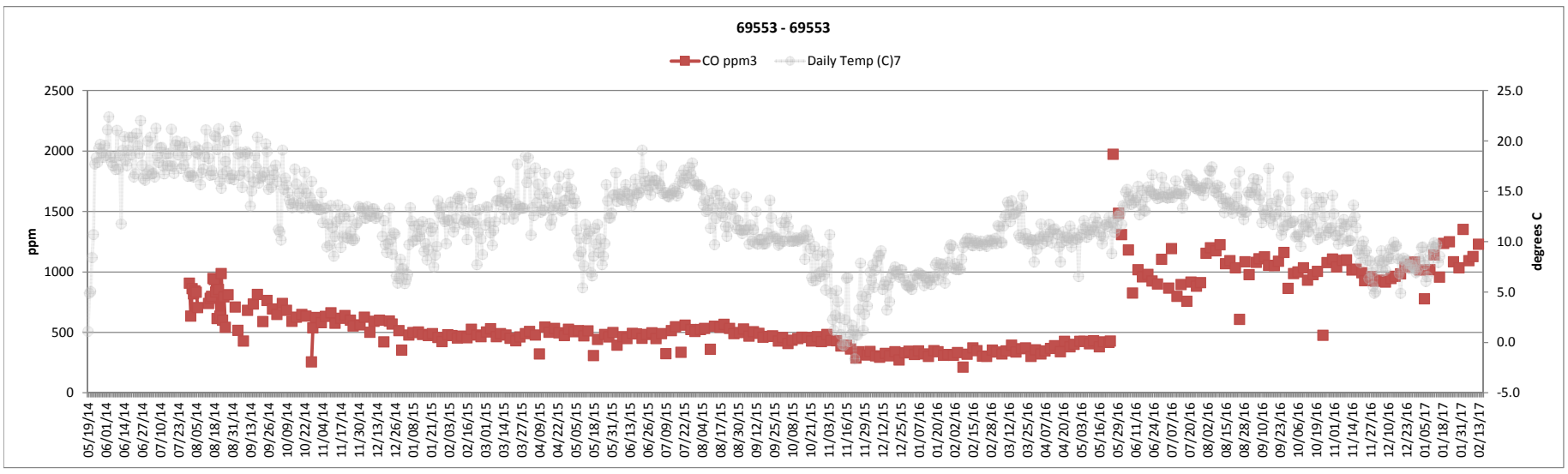


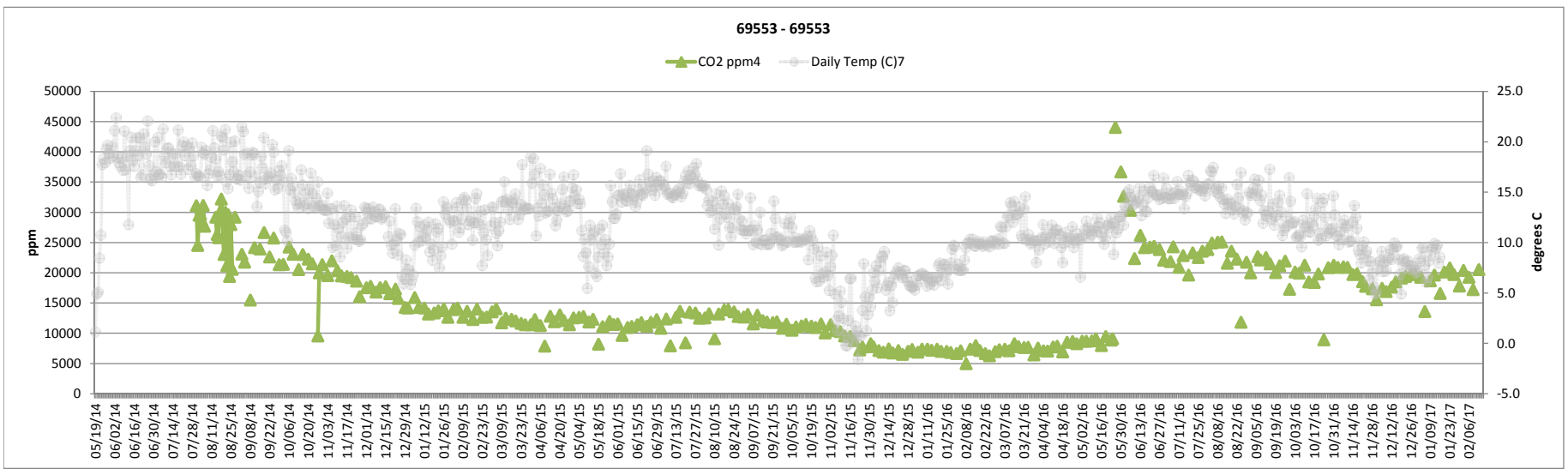


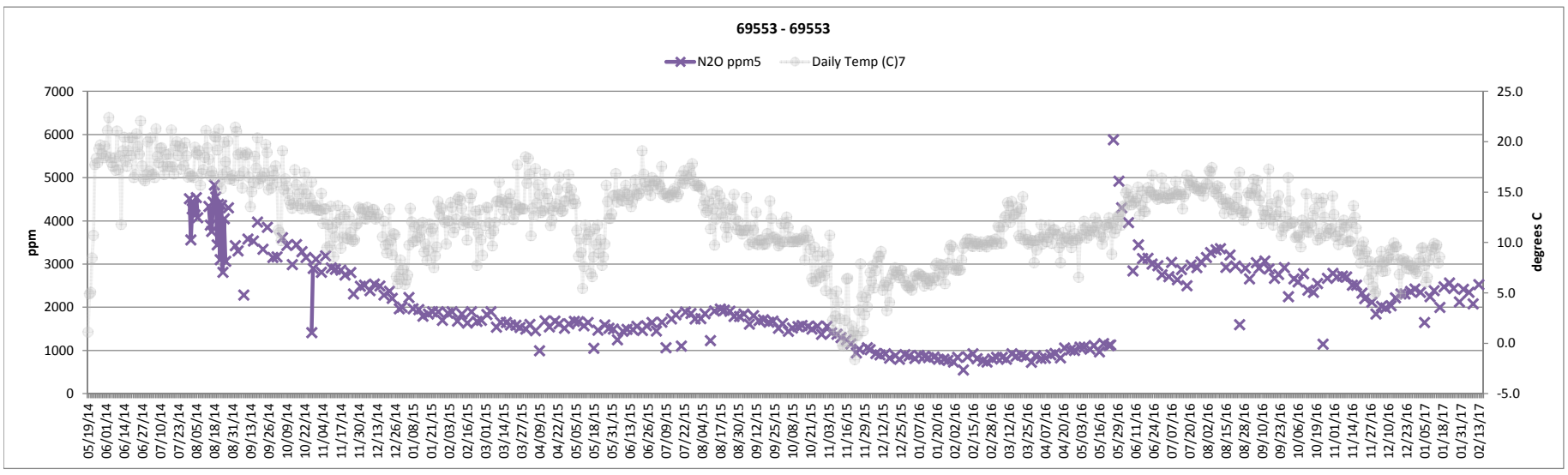


Remediated Nitrate Salt Container Headspace Gas and Temperature

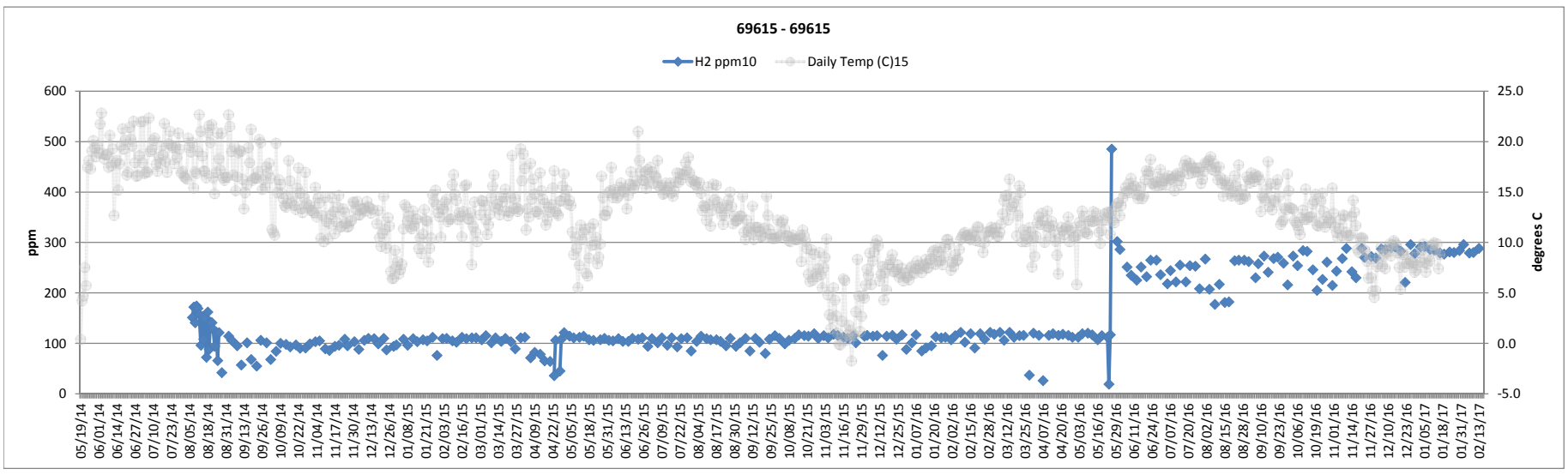


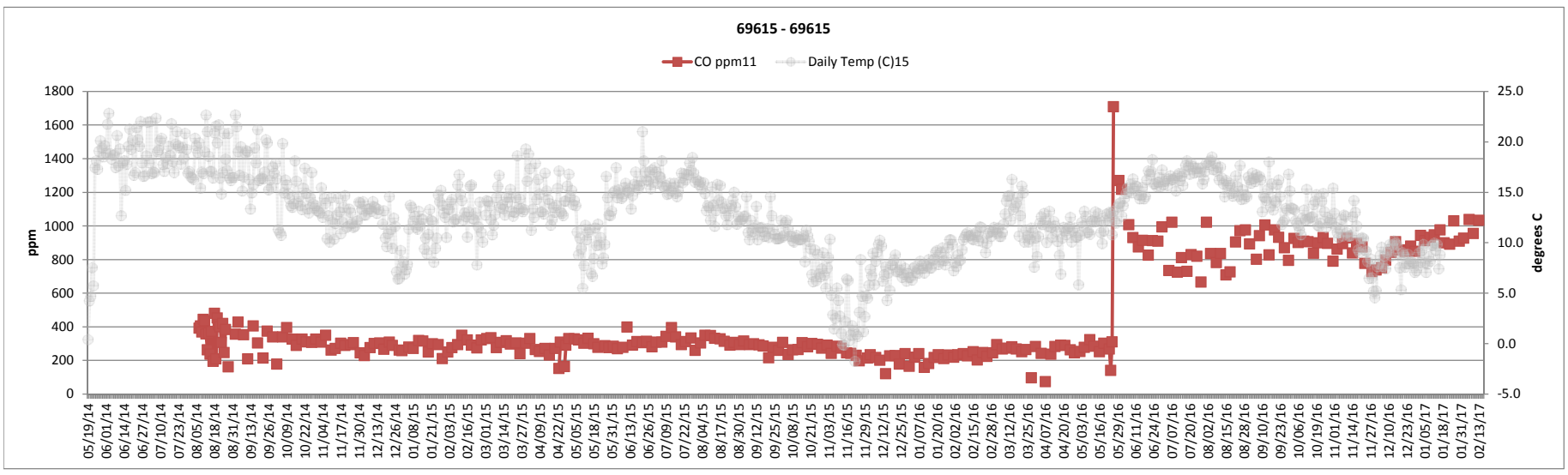


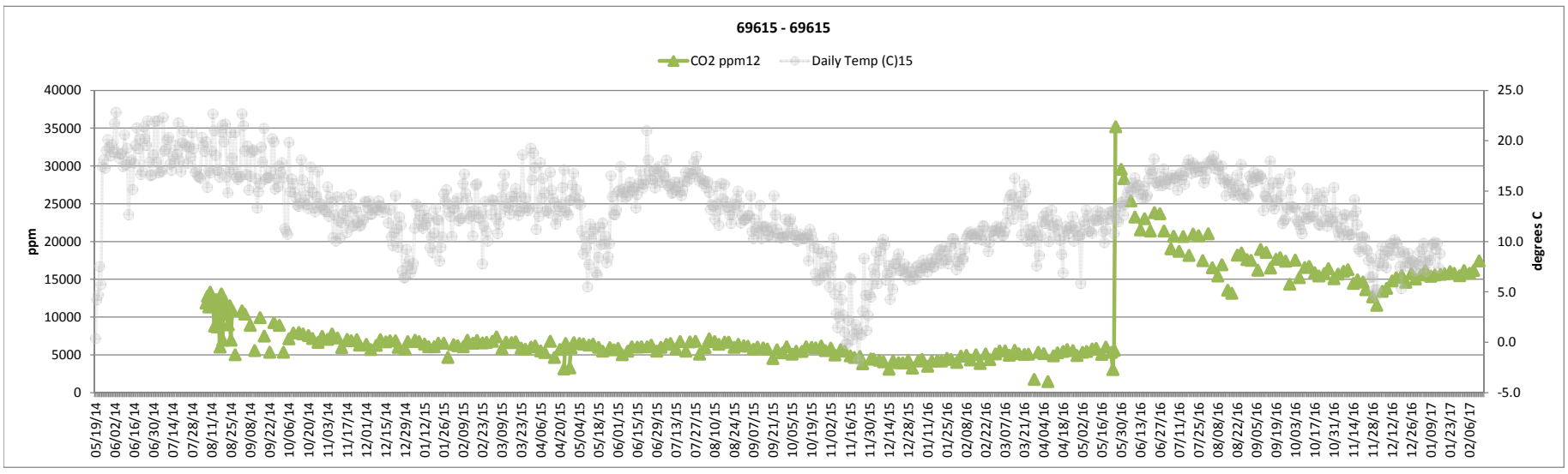


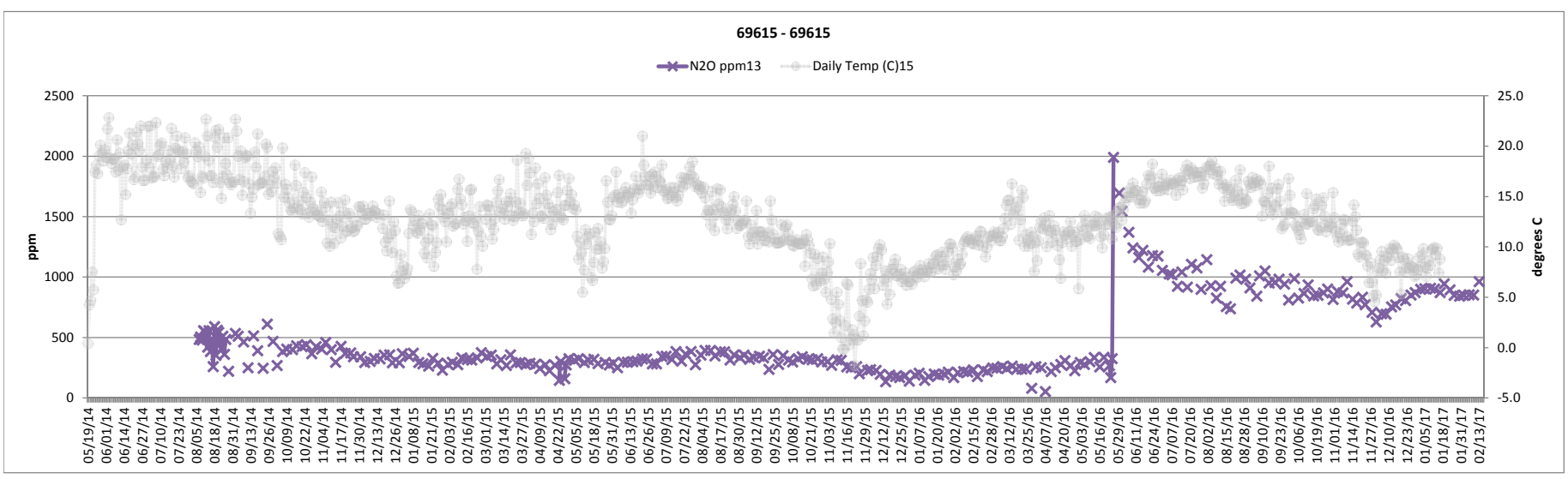


Remediated Nitrate Salt Container Headspace Gas and Temperature

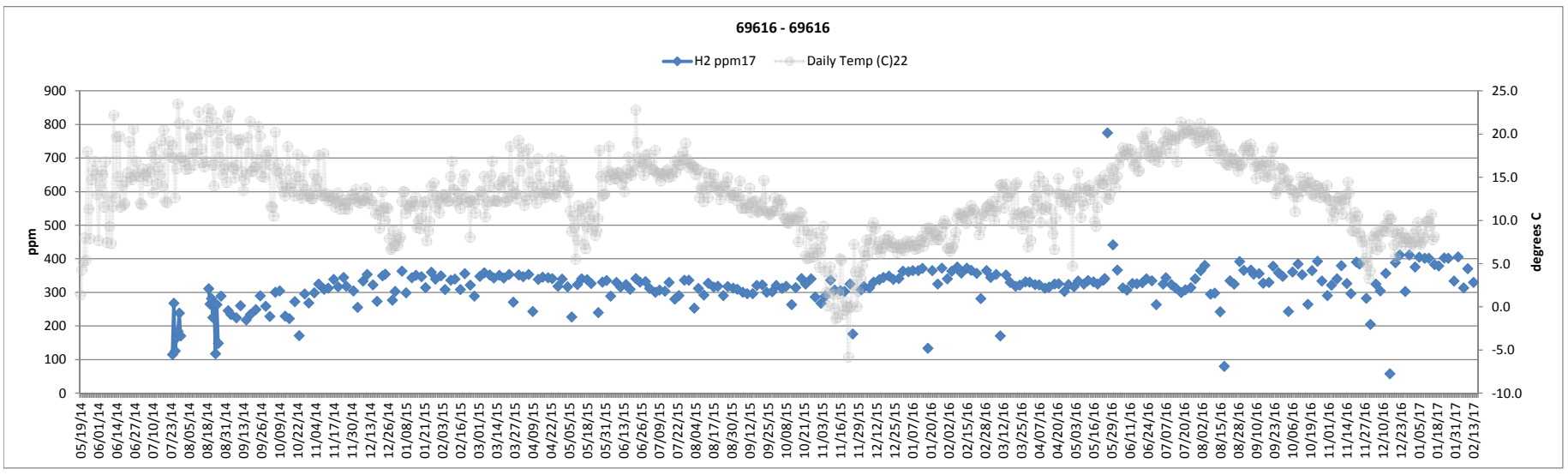


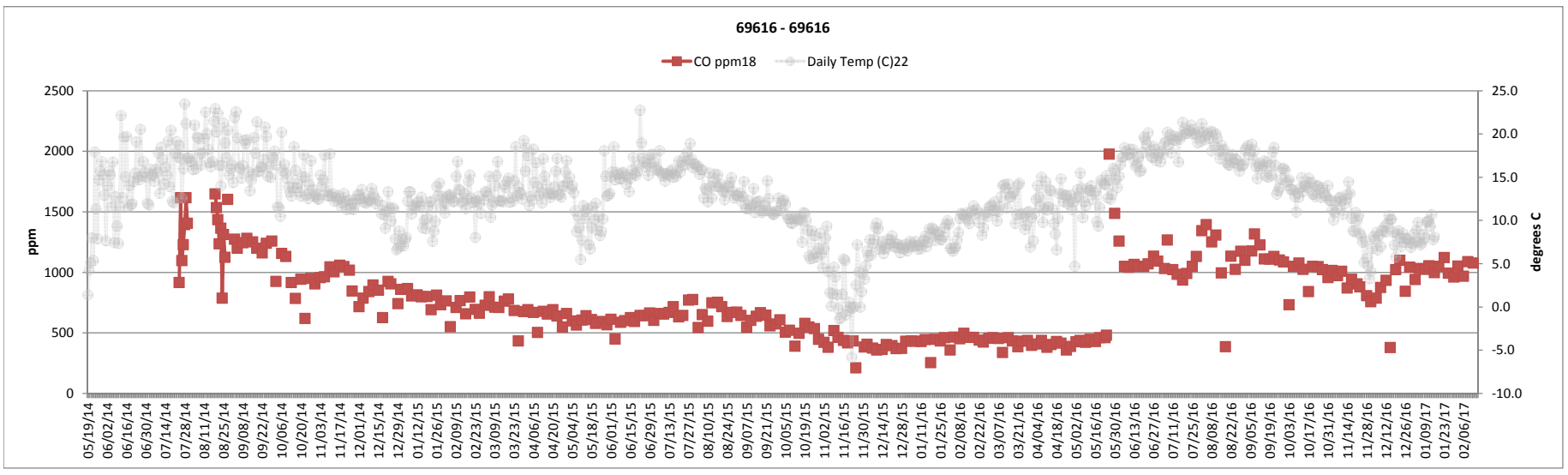


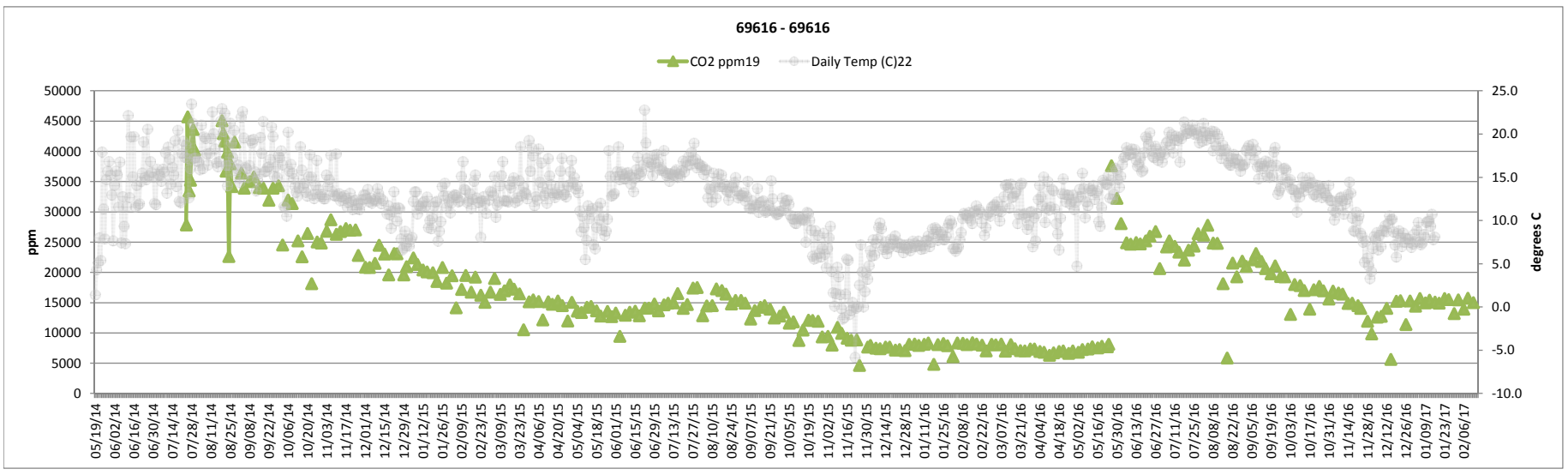


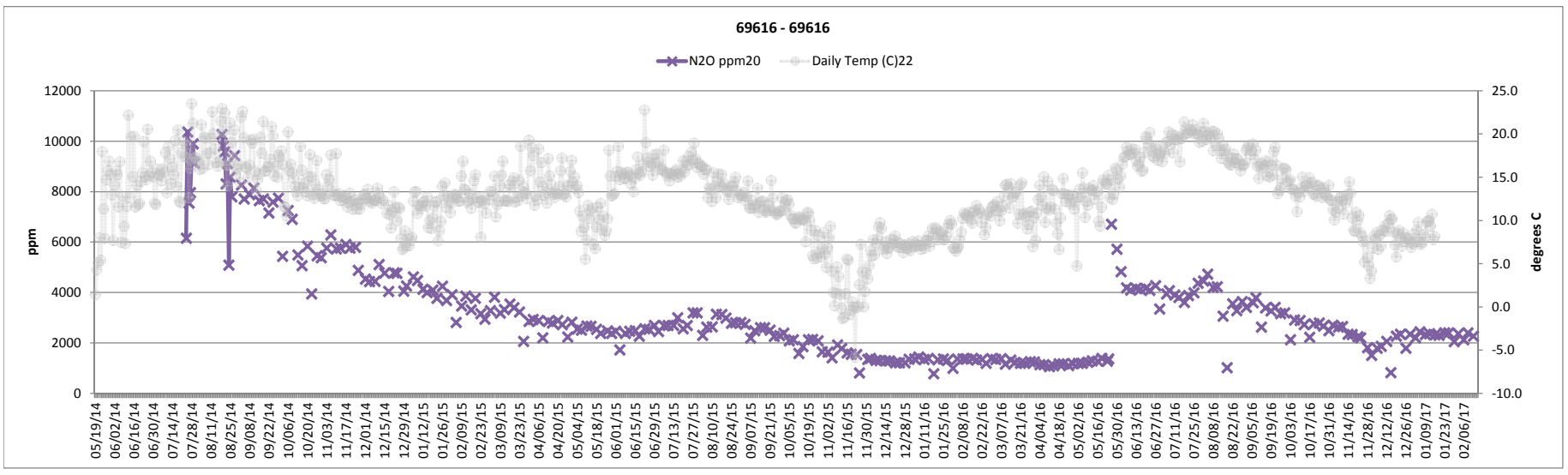


Remediated Nitrate Salt Container Headspace Gas and Temperature

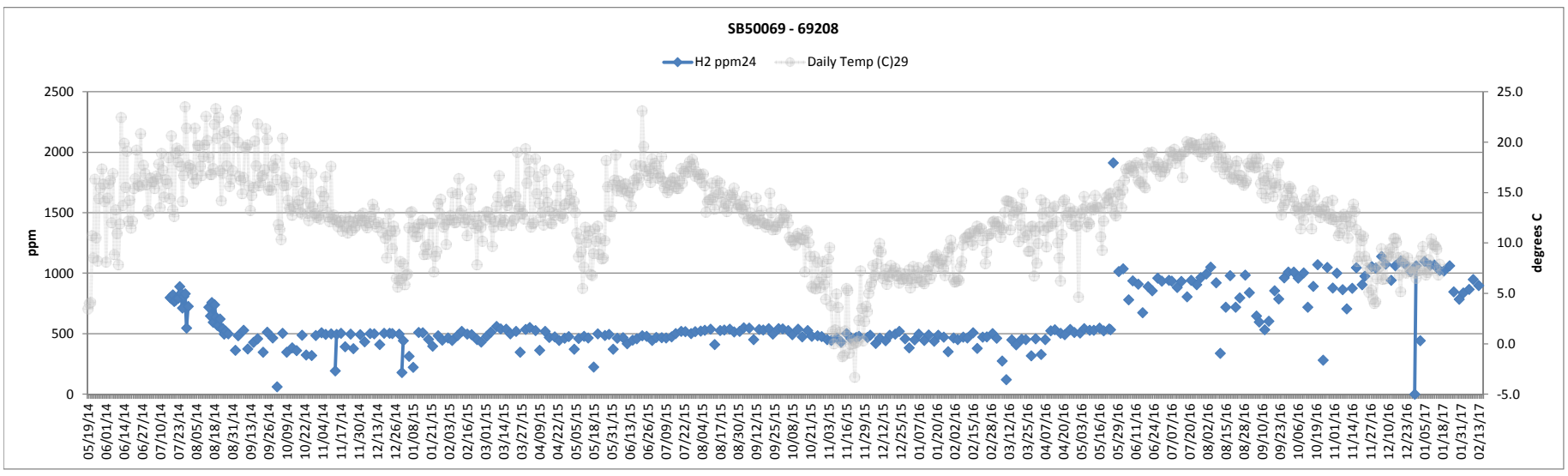


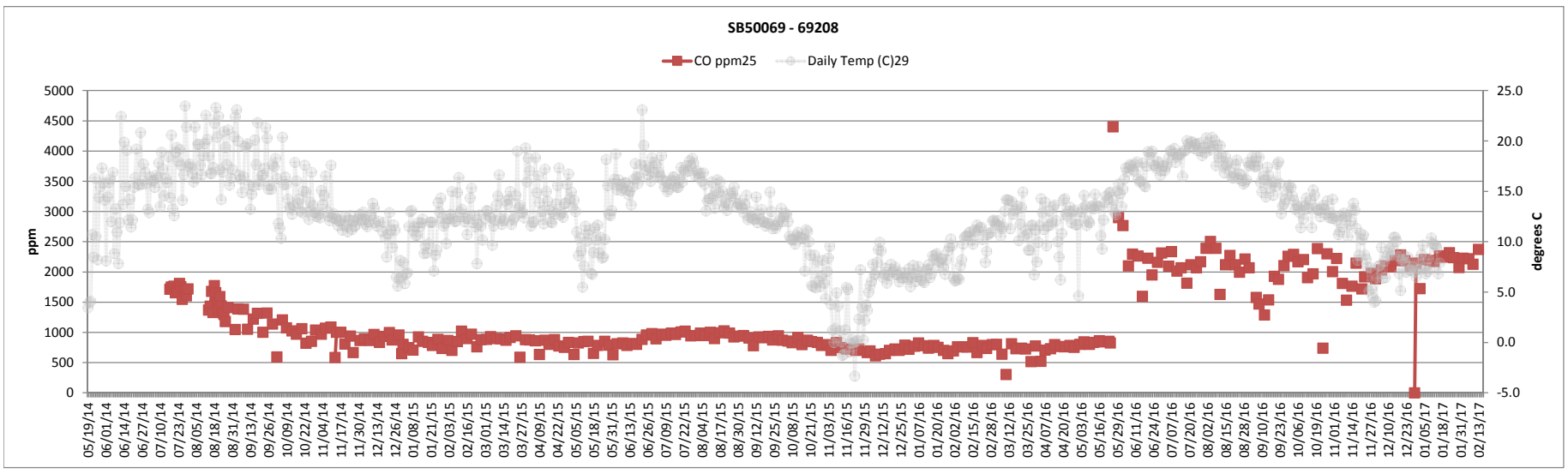


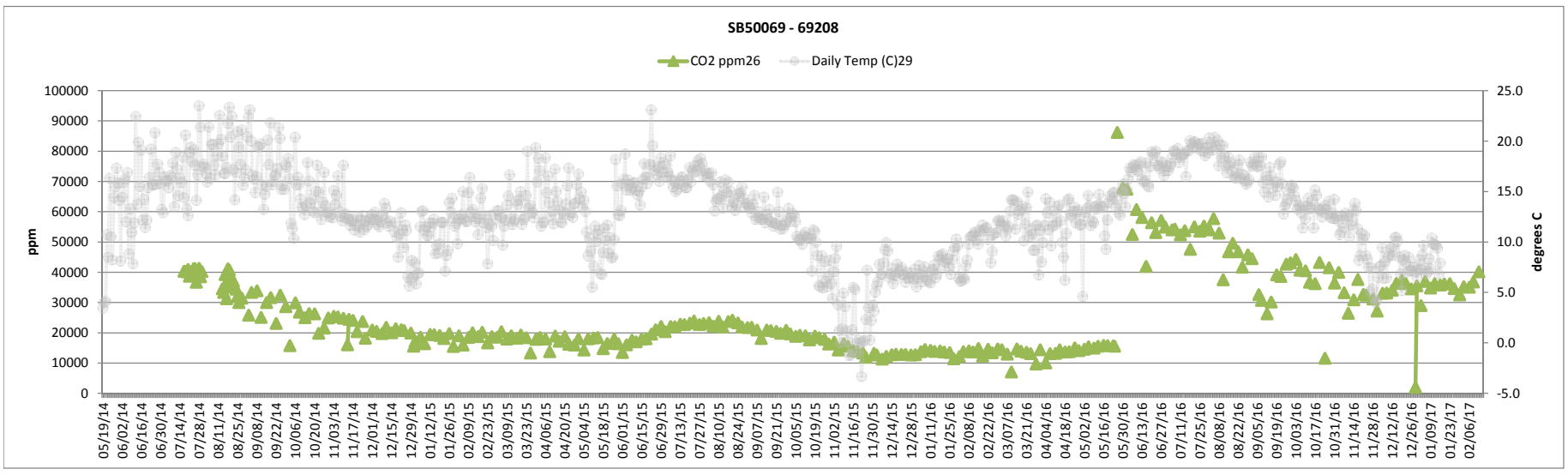


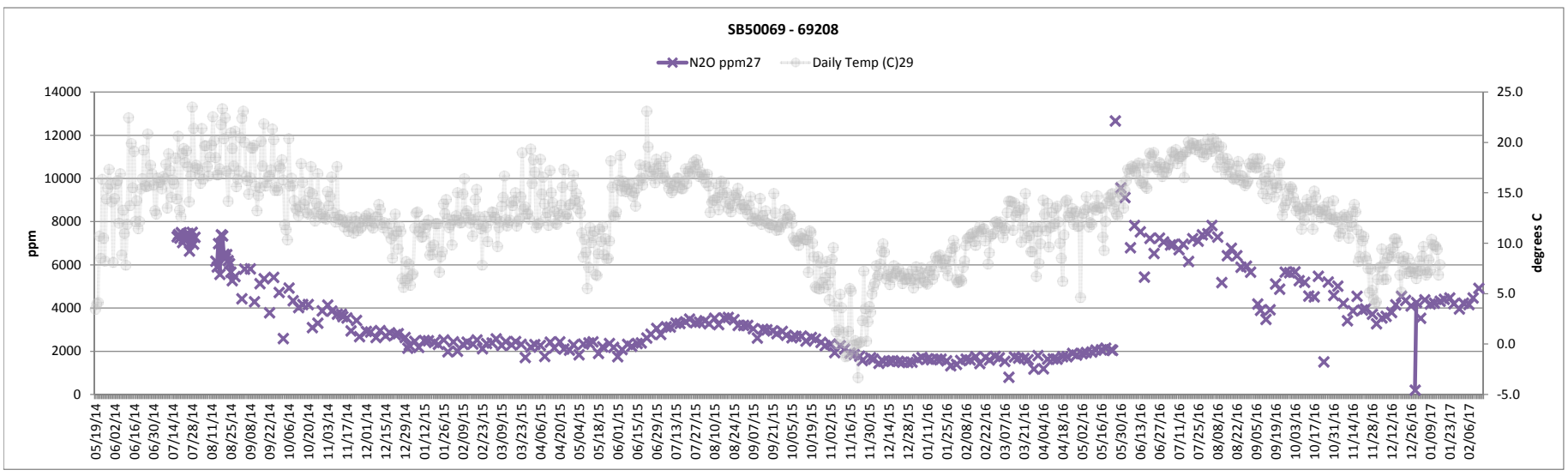


Remediated Nitrate Salt Container Headspace Gas and Temperature

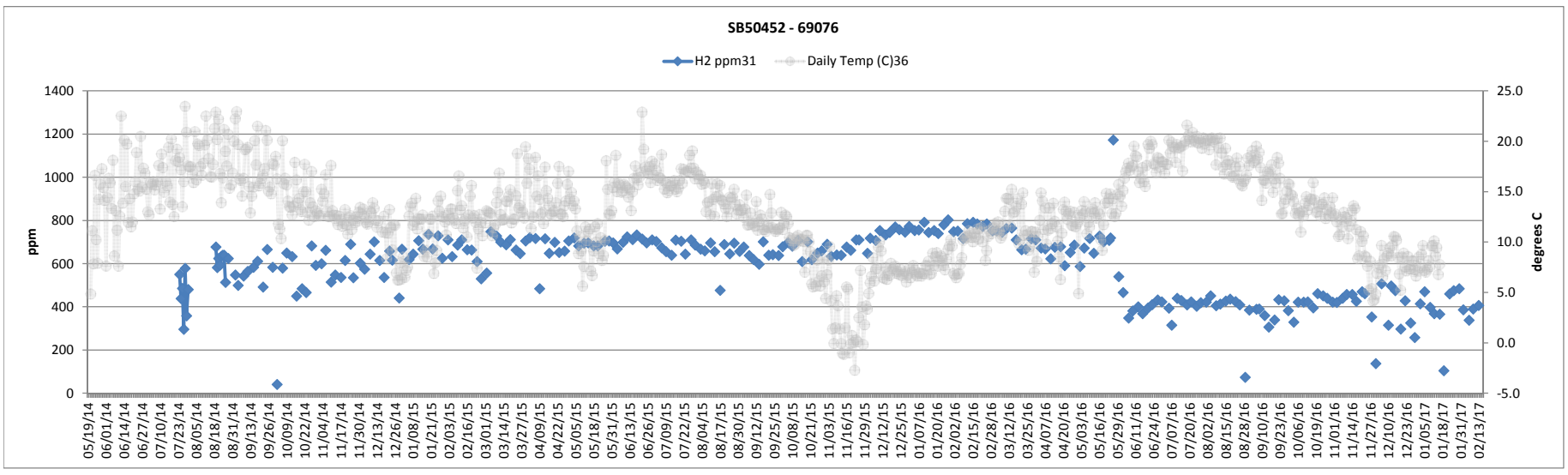


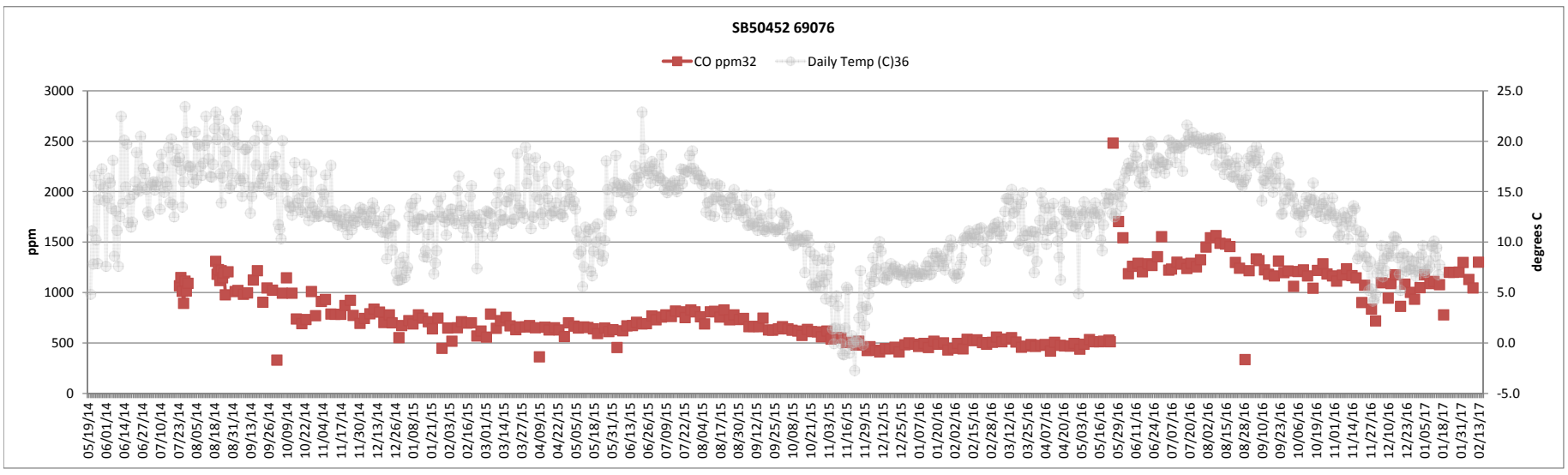


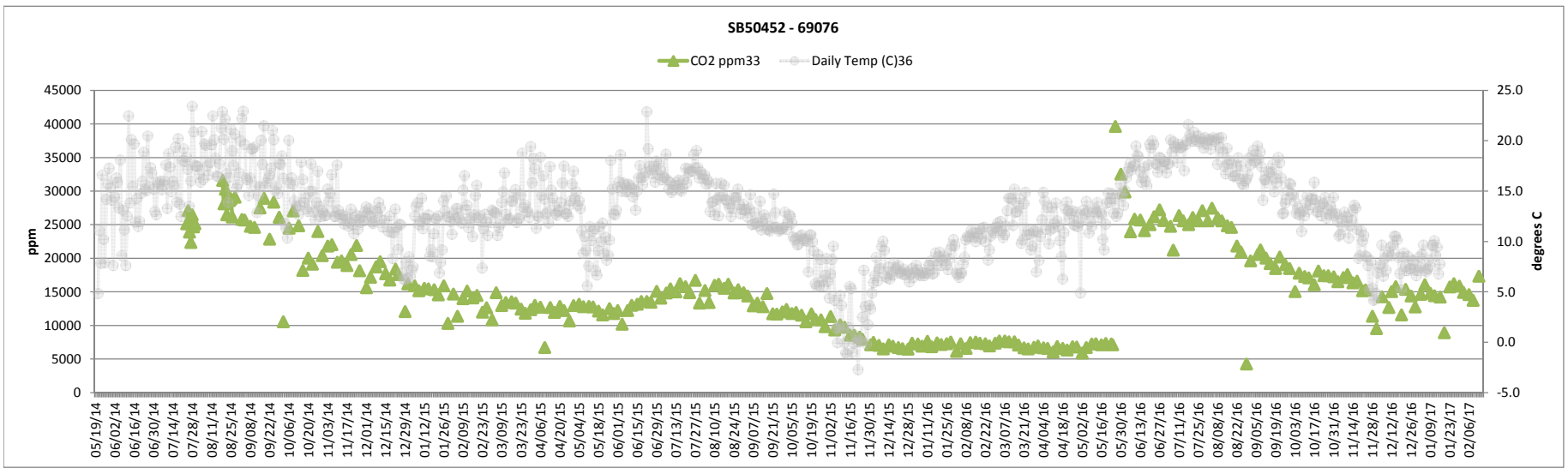


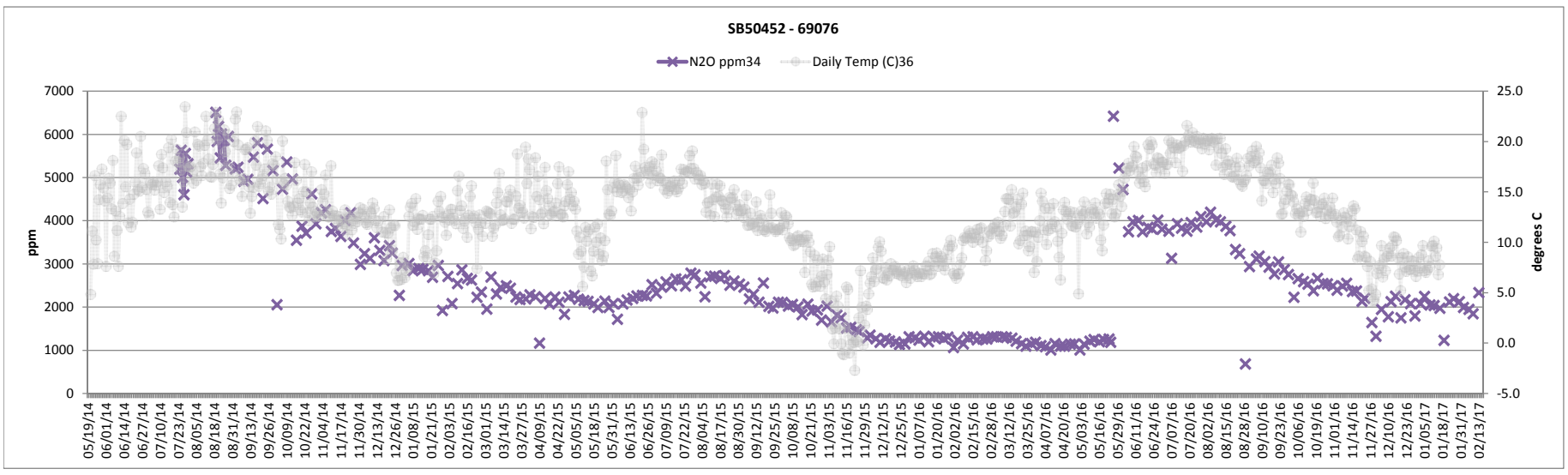


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 6

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: 01·16·17 Time: 1300	Tuesday Date: 01-17-17 Time: 1306	Wednesday Date: 01-14-17 Time: 1310	Thursday Date: 01.19.17 Time: 1514	Friday Date: 01-20-17 Time: 1300	Saturday Date: 01-21-17 Time: 1300	Sunday Date: 01-22-2017 Time: 1300
TA-54-0375							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 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: 6-20-17 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	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 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 Temperatures (6.[4])	Cell 1: 44.6 °F Cell 2 49.7 °F Cell 3: 46.8 °F Refrig.: 38.5 °F	Cell 1: ~~39.5~~ 45.5 Cell 2 49.0 °F Cell 3: 46.9 °F Refrig.: 39.5 °F	Cell 1: 44.8 °F Cell 2 47.3 °F Cell 3: 46.2 °F Refrig.: 37.8 °F	Cell 1: 46.2 °F Cell 2 47.7 °F Cell 3: 45.7 °F Refrig.: 38.5 °F	Cell 1: ~~45.4~~ 43.8 Cell 2 46.1 °F Cell 3: 45.7 °F Refrig.: 37.2 °F	Cell 1: 42.5 °F Cell 2 45.3 °F Cell 3: 44.8 °F Refrig.: 36.8 °F	Cell 1: 42.5 °F Cell 2 46.4 °F Cell 3: 46.0 °F Refrig.: 37.9 °F
($) Ambient Cell Temperatures ≤ 75°F; SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

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Z# 239958
INITIAL VDM DATE 01/16/17

ATTACHMENT 2

Page 2 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ● ③ ® N/A	47.2	① ● ③ ® N/A	48.0	① ● ③ ® N/A	47.1	① ● ③ ® N/A	47.6	① ● ③ ® N/A	46.4	① ● ③ ® N/A	46.0	① ● ③ ® N/A	46.5
68430	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.9	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.5	① ● ③ ® N/A	47.1
68507	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.1	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.0	① ● ③ ® N/A	47.1
68540	1	● ② ③ ® N/A	45.8	● ② ③ ® N/A	47.3	● ② ③ ® N/A	46.4	● ② ③ ® N/A	47.1	● ② ③ ® N/A	45.6	● ② ③ ® N/A	44.4	● ② ③ ® N/A	45.1
68553	1	● ② ③ ® N/A	45.7	● ② ③ ® N/A	47.9	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.4	● ② ③ ® N/A	45.5	● ② ③ ® N/A	44.8	● ② ③ ® N/A	45.6
68567	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.6	① ● ③ ® N/A	47.6	① ● ③ ® N/A	47.8	① ● ③ ® N/A	46.2	① ● ③ ® N/A	46.2	① ● ③ ® N/A	47.0
68624	2	① ● ③ ® N/A	48.6	① ● ③ ® N/A	49.9	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.7	① ● ③ ® N/A	46.9	① ● ③ ® N/A	46.5	① ● ③ ® N/A	47.4
68631	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.8	① ● ③ ® N/A	48.2	① ● ③ ® N/A	47.1	① ● ③ ® N/A	45.8	① ● ③ ® N/A	47.3
68638	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.6	① ● ③ ® N/A	47.8	① ● ③ ® N/A	46.9	① ● ③ ® N/A	45.8	① ● ③ ® N/A	46.8
68648	2	① ● ③ ® N/A	48.3	① ● ③ ® N/A	48.0	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.2	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.3	① ● ③ ® N/A	47.2
68665	3	① ② ● ® N/A	47.7	① ② ● ® N/A	47.8	① ② ● ® N/A	47.3	① ② ● ® N/A	48.4	① ② ● ® N/A	47.2	① ② ● ® N/A	46.3	① ② ● ® N/A	47.2
68685	1	● ② ③ ® N/A	47.0	● ② ③ ® N/A	48.2	● ② ③ ® N/A	48.9	● ② ③ ® N/A	47.9	● ② ③ ® N/A	45.5	● ② ③ ® N/A	44.4	● ② ③ ® N/A	45.3
69013	1	● ② ③ ® N/A	47.8	● ② ③ ® N/A	47.5	● ② ③ ® N/A	46.9	● ② ③ ® N/A	47.5	● ② ③ ® N/A	45.5	● ② ③ ® N/A	45.0	● ② ③ ® N/A	45.8
69015	2	① ● ③ ® N/A	48.7	① ● ③ ® N/A	48.5	① ● ③ ® N/A	48.1	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.3	① ● ③ ® N/A	46.7	① ● ③ ® N/A	47.4
69036	3	① ② ● ® N/A	47.1	① ② ● ® N/A	47.3	① ② ● ® N/A	47.6	① ② ● ® N/A	47.8	① ② ● ® N/A	46.3	① ② ● ® N/A	46.2	① ② ● ® N/A	46.5
69076	1	● ② ③ ® N/A	46.0	● ② ③ ® N/A	47.5	● ② ③ ® N/A	46.9	● ② ③ ® N/A	47.5	● ② ③ ® N/A	45.9	● ② ③ ® N/A	45.3	● ② ③ ® N/A	46.0
69079	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.4	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.6	● ② ③ ® N/A	45.5	● ② ③ ® N/A	45.0	● ② ③ ® N/A	45.5
69183	2	① ● ③ ® N/A	48.0	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.3	① ● ③ ® N/A	46.7	① ● ③ ® N/A	46.2	① ● ③ ® N/A	47.2

ATTACHMENT 2

Page 3 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.5	① ② ③ ® N/A	47.6	● ② ③ ® N/A	47.4	● ② ③ ® N/A	45.5	● ② ③ ® N/A	44.6	● ② ③ ® N/A	45.6
69280	1	● ② ③ ® N/A	47.0	● ② ③ ® N/A	47.5	① ② ③ ® N/A	47.0	● ② ③ ® N/A	47.9	● ② ③ ® N/A	45.5	● ② ③ ® N/A	44.6	● ② ③ ® N/A	46.1
69298	1	● ② ③ ® N/A	47.5	● ② ③ ® N/A	47.7	① ② ③ ® N/A	47.5	● ② ③ ® N/A	48.1	● ② ③ ® N/A	46.0	● ② ③ ® N/A	45.3	● ② ③ ® N/A	46.4
69361	3	① ② ● ® N/A	47.6	① ② ● ® N/A	47.8	① ② ③ ® N/A	47.2	① ② ● ® N/A	47.8	① ② ● ® N/A	46.9	① ② ● ® N/A	46.2	① ② ● ® N/A	46.9
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	47.4	① ② ③ ® N/A	47.6	● ② ③ ® N/A	49.0	● ② ③ ® N/A	45.4	● ② ③ ® N/A	44.7	● ② ③ ® N/A	45.9
69490	1	● ② ③ ® N/A	45.9	● ② ③ ® N/A	47.6	① ② ③ ® N/A	47.2	● ② ③ ® N/A	47.4	● ② ③ ® N/A	45.7	● ② ③ ® N/A	45.0	● ② ③ ® N/A	45.8
69491	3	① ② ● ® N/A	46.9	① ② ● ® N/A	48.1	① ② ③ ® N/A	47.7	① ② ● ® N/A	47.0	① ② ● ® N/A	47.0	① ② ● ® N/A	46.4	① ② ● ® N/A	47.4
69519	3	① ② ● ® N/A	48.2	① ② ● ® N/A	47.7	① ② ③ ® N/A	48.0	① ② ● ® N/A	47.6	① ② ● ® N/A	46.9	① ② ● ® N/A	46.3	① ② ● ® N/A	47.2
69520	1	● ② ③ ® N/A	46.3	● ② ③ ® N/A	47.4	① ② ③ ® N/A	47.5	● ② ③ ® N/A	47.5	● ② ③ ® N/A	45.9	● ② ③ ® N/A	45.1	● ② ③ ® N/A	46.3
69548	3	① ② ● ® N/A	47.3	① ② ● ® N/A	48.3	① ② ③ ® N/A	47.6	① ② ● ® N/A	48.6	① ② ● ® N/A	46.4	① ② ● ® N/A	46.6	① ② ● ® N/A	47.6
69553	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.0	① ② ③ ® N/A	47.5	① ● ③ ® N/A	47.2	① ● ③ ® N/A	46.6	① ● ③ ® N/A	45.9	① ● ③ ® N/A	46.5
69559	3	① ② ● ® N/A	46.2	① ② ● ® N/A	48.3	① ② ③ ® N/A	47.7	① ② ● ® N/A	47.6	① ② ● ® N/A	46.7	① ② ● ® N/A	46.3	① ② ● ® N/A	47.2
69568	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.0	① ② ③ ® N/A	47.7	① ● ③ ® N/A	47.7	① ● ③ ® N/A	46.8	① ● ③ ® N/A	46.2	① ● ③ ® N/A	46.8
69595	3	① ② ● ® N/A	46.3	① ② ● ® N/A	47.7	① ② ③ ® N/A	47.3	① ② ● ® N/A	47.7	① ② ● ® N/A	46.9	① ② ● ® N/A	46.1	① ② ● ® N/A	47.0
69598	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	47.7	① ② ③ ® N/A	47.6	① ● ③ ® N/A	47.9	① ● ③ ® N/A	46.5	① ● ③ ® N/A	46.0	① ● ③ ® N/A	46.8
69604	3	① ② ● ® N/A	47.4	① ② ● ® N/A	48.2	① ② ③ ® N/A	47.6	① ② ● ® N/A	48.0	① ② ● ® N/A	46.9	① ② ● ® N/A	46.7 ~~46.0~~	① ② ● ® N/A	47.0
69615	2	① ● ③ ® N/A	47.8	① ● ③ ® N/A	48.7	① ② ③ ® N/A	48.1	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.0	① ● ③ ® N/A	47.3

ATTACHMENT 2

Page 4 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.2	✓ ② ③ ® N/A	46.8	● ② ③ ® N/A	47.7	● ② ③ ® N/A	45.7	● ② ③ ® N/A	45.6	● ② ③ ® N/A	46.7
69618	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.1	✓ ② ③ ® N/A	47.0	● ② ③ ® N/A	47.9	● ② ③ ® N/A	45.6	● ② ③ ® N/A	44.7	● ② ③ ® N/A	46.1
69620	1	● ② ③ ® N/A	46.1	● ② ③ ® N/A	47.5	✓ ② ③ ® N/A	46.8	● ② ③ ® N/A	47.6	● ② ③ ® N/A	45.8	● ② ③ ® N/A	44.9	● ② ③ ® N/A	45.8
69630	2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.4	① ✓ ③ ® N/A	47.9	① ● ③ ® N/A	48.8	① ● ③ ® N/A	47.0	① ● ③ ® N/A	45.9	① ● ③ ® N/A	47.2
69633	2	① ● ③ ® N/A	49.0	① ● ③ ® N/A	48.7	① ✓ ③ ® N/A	48.2	① ● ③ ® N/A	48.7	① ● ③ ® N/A	47.2	① ● ③ ® N/A	46.4	① ● ③ ® N/A	47.4
69634	2	① ● ③ ® N/A	48.0	① ● ③ ® N/A	47.8	① ✓ ③ ® N/A	47.6	① ● ③ ® N/A	47.7	① ● ③ ® N/A	46.7	① ● ③ ® N/A	45.9	① ● ③ ® N/A	46.6
69635	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.5	① ✓ ③ ® N/A	48.0	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.2	① ● ③ ® N/A	46.3	① ● ③ ® N/A	47.2
69636	1	● ② ③ ® N/A	46.7	● ② ③ ® N/A	47.5	✓ ② ③ ® N/A	47.2	● ② ③ ® N/A	47.7	● ② ③ ® N/A	46.2	● ② ③ ® N/A	44.8	● ② ③ ® N/A	46.0
69637	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.9	① ✓ ③ ® N/A	48.3	① ● ③ ® N/A	48.9	① ● ③ ® N/A	47.3	① ● ③ ® N/A	46.6	① ● ③ ® N/A	47.6
69638	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.6	① ✓ ③ ® N/A	47.6	① ● ③ ® N/A	48.6	① ● ③ ® N/A	46.9	① ● ③ ® N/A	46.3	① ● ③ ® N/A	47.9
69639	2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.5	① ✓ ③ ® N/A	48.1	① ● ③ ® N/A	48.7	① ● ③ ® N/A	47.4	① ● ③ ® N/A	46.7	① ● ③ ® N/A	47.5
69641	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.9	✓ ② ③ ® N/A	47.2	● ② ③ ® N/A	47.9	● ② ③ ® N/A	46.0	● ② ③ ® N/A	45.2	● ② ③ ® N/A	46.5
69642	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.8	① ✓ ③ ® N/A	47.9	① ● ③ ® N/A	48.8	① ● ③ ® N/A	46.8	① ● ③ ® N/A	45.9	① ● ③ ® N/A	47.3
69644	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.4 ~~48.6~~ CA 47-17	① ✓ ③ ® N/A	48.1	① ● ③ ® N/A	48.1	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.4	① ● ③ ® N/A	47.1
69645	3	① ② ● ® N/A	47.3	① ② ● ® N/A	47.9	① ② ✓ ® N/A	47.2	① ② ● ® N/A	48.0	① ② ● ® N/A	47.0	① ② ● ® N/A	46.2	① ② ● ® N/A	47.3
87827	3	① ② ● ® N/A	47.4	① ② ● ® N/A	48.3	① ② ✓ ® N/A	48.0	① ② ● ® N/A	48.5	① ② ● ® N/A	47.0	① ② ● ® N/A	46.6	① ② ● ® N/A	47.2
87823	3	① ② ● ® N/A	48.0	① ② ● ® N/A	47.8	① ② ✓ ® N/A	47.5	① ② ● ® N/A	48.0	① ② ● ® N/A	46.4	① ② ● ® N/A	45.7	① ② ● ® N/A	46.9

ATTACHMENT 2
Page 5 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ● ® N/A	45.2	① ② ● ® N/A	47.1	① ② ● ® N/A	46.0	① ② ● ® N/A	47.7	① ② ● ® N/A	46.1	① ② ● ® N/A	45.3	① ② ● ® N/A	46.3
87826	3	① ② ● ® N/A	47.1	① ② ● ® N/A	48.5	① ② ● ® N/A	47.9	① ② ● ® N/A	48.7	① ② ● ® N/A	46.6	① ② ● ® N/A	46.4	① ② ● ® N/A	47.6
92459	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.5	① ● ③ ® N/A	48.0	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.2	① ● ③ ® N/A	46.6	① ● ③ ® N/A	47.2
92472	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.4	① ● ③ ® N/A	47.7	① ● ③ ® N/A	47.9	① ● ③ ® N/A	46.8	① ● ③ ® N/A	46.2	① ● ③ ® N/A	46.9
92669	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	48.0	● ② ③ ® N/A	47.3	● ② ③ ® N/A	48.2	● ② ③ ® N/A	45.9	● ② ③ ® N/A	45.2	● ② ③ ® N/A	46.2
93605	3	① ② ● ® N/A	48.1	① ② ● ® N/A	48.5	① ② ● ® N/A	47.4	① ② ● ® N/A	48.5	① ② ● ® N/A	47.1	① ② ● ® N/A	46.5	① ② ● ® N/A	47.5
94068	3	① ② ● ® N/A	47.5	① ② ● ® N/A	48.4	① ② ● ® N/A	47.6	① ② ● ® N/A	48.1	① ② ● ® N/A	47.0	① ② ● ® N/A	46.5	① ② ● ® N/A	47.2
94227	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	47.6	① ● ③ ® N/A	46.7	① ● ③ ® N/A	46.1	① ● ③ ® N/A	47.1
End Time (6.[16])		1318		1412		1334		1528		1320		1322		1321	
Initial (6.[16])		WO: VM WO: MZ		WO: CA WO: FA		WO: LM WO: FA		WO: VM WO: FA		WO: EP WO: FA		WO: EP WO: FA		WO: EP WO: FA	

ATTACHMENT 2
Page 6 of 6

Comments: No Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	101/16/17
MATT ZOCCO	[illegible]	311676	101-16-17
Tina Aguirre	[illegible]	174977	01-17-17
Fabian Anaya	Fabian Anaya	174963	101-17-17
Leon Montoya	[illegible]	191526	101-18-17
Fabian Anaya	Fabian Anaya	174963	101-18-17
Valerie Martinez	Valerie Martinez	239958	101/19/17
Fabian Anaya	Fabian Anaya	174963	101-19-17
Edward Pacheco	Edward Pacheco	100497	101-20-2017
Fabian Anaya	Fabian Anaya	174963	101-20-17
Edward Pacheco	Edward Pacheco	100497	101-21-2017
Fabian Anaya	Fabian Anaya	174963	101-21-17
Edward Pacheco	Edward Pacheco	100497	101-22-17
Fabian Anaya	Fabian Anaya	174963	101-22-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2

Page 1 of 6

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: 01-23-17 Time: 1309	Tuesday Date: 01-24-17 Time: 1335	Wednesday Date 01-25-17 Time: 1314	Thursday Date: 01-26-17 Time: 1315	Friday Date: 01-27-17 Time: 1300	Saturday Date: 01-28-17 Time: 1300	Sunday Date: 01-29-17 Time: 1300
TA-54-0375							
Calibrated infrared thermometer (6.[3])	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
	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
	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 Temperatures (6.[4])	Cell 1: 47.6 °F Cell 2 48.1 °F Cell 3: 46.6 °F Refrig.: 39.0 °F	Cell 1: 43.9 °F Cell 2 48.2 °F Cell 3: 45.1 °F Refrig.: 38.7 °F	Cell 1: 40.7 °F Cell 2 45.2 °F Cell 3: 43.9 °F Refrig.: 38.7 °F	Cell 1: 42.8 °F Cell 2 44.7 °F Cell 3: 45.9 °F Refrig.: 38.9 °F	Cell 1: 40.3 °F Cell 2 44.1 °F Cell 3: 41.3 °F Refrig.: 38.4 °F	Cell 1: 43.7 °F Cell 2 46.4 °F Cell 3: 44.3 °F Refrig.: 38.5 °F	Cell 1: 45.5 °F Cell 2 48.0 °F Cell 3: 47.0 °F Refrig.: 38.9 °F
($) Ambient Cell Temperatures ≤ 75°F; SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

WORKING COPY

Z# 174977

INITIAL QA DATE 01-23-17

ATTACHMENT 2

Page 2 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	46.8	① ● ③ ® N/A	45.5	① ✓ ③ ® N/A	46.0	① ✓ ③ ® N/A	43.7	① ✓ ③ ® N/A	45.5	① ● ③ ® N/A	46.6
68430	2	① ● ③ ® N/A	48.9	① ● ③ ® N/A	47.0	① ● ③ ® N/A	46.0	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	46.4	① ● ③ ® N/A	48.1
68507	2	① ● ③ ® N/A	48.2	① ● ③ ® N/A	46.5	① ● ③ ® N/A	45.7	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.6	① ● ③ ® N/A	47.9
68540	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	44.6	● ② ③ ® N/A	44.1	✓ ② ③ ® N/A	42.2	✓ ② ③ ® N/A	43.1	✓ ② ③ ® N/A	45.9	● ② ③ ® N/A	46.6
68553	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	44.9	● ② ③ ® N/A	44.3	✓ ② ③ ® N/A	43.1	✓ ② ③ ® N/A	43.3	✓ ② ③ ® N/A	45.9	● ② ③ ® N/A	47.4
68567	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	47.6	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	44.1	① ✓ ③ ® N/A	44.0	① ✓ ③ ® N/A	45.3	① ● ③ ® N/A	46.9
68624	2	① ● ③ ® N/A	50.2	① ● ③ ® N/A	48.6	① ● ③ ® N/A	46.3	① ✓ ③ ® N/A	46.1	① ✓ ③ ® N/A	44.9	① ✓ ③ ® N/A	46.6	① ● ③ ® N/A	48.1
68631	2	① ● ③ ® N/A	48.7	① ● ③ ® N/A	47.6	① ● ③ ® N/A	45.6	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	44.3	① ✓ ③ ® N/A	46.3	① ● ③ ® N/A	47.8
68638	2	① ● ③ ® N/A	48.4	① ● ③ ® N/A	46.2	① ● ③ ® N/A	45.5	① ✓ ③ ® N/A	44.4	① ✓ ③ ® N/A	44.2	① ✓ ③ ® N/A	46.1	① ● ③ ® N/A	47.5
68648	2	① ● ③ ® N/A	48.1	① ● ③ ® N/A	47.5	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	44.1	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	46.1	① ● ③ ® N/A	47.9
68665	3	① ② ● ® N/A	48.3	① ② ● ® N/A	46.6	① ② ● ® N/A	45.8	① ② ✓ ® N/A	~~43.6~~ 44.2	① ② ✓ ® N/A	43.1	① ② ✓ ® N/A	45.6	① ② ● ® N/A	47.7
68685	1	● ② ③ ® N/A	47.7	● ② ③ ® N/A	46.7	● ② ③ ® N/A	42.1	✓ ② ③ ® N/A	44.4	✓ ② ③ ® N/A	42.8	✓ ② ③ ® N/A	45.1	● ② ③ ® N/A	46.1
69013	1	● ② ③ ® N/A	48.8	● ② ③ ® N/A	46.2	● ② ③ ® N/A	44.5	✓ ② ③ ® N/A	44.3	✓ ② ③ ® N/A	43.3	✓ ② ③ ® N/A	45.4	● ② ③ ® N/A	46.9
69015	2	① ● ③ ® N/A	49.8	① ● ③ ® N/A	47.8	① ● ③ ® N/A	46.1	① ✓ ③ ® N/A	46.3	① ✓ ③ ® N/A	44.8	① ✓ ③ ® N/A	46.4	① ● ③ ® N/A	48.0
69036	3	① ② ● ® N/A	47.7	① ② ● ® N/A	47.5	① ② ● ® N/A	45.4	① ② ✓ ® N/A	44.4	① ② ✓ ® N/A	43.0	① ② ✓ ® N/A	45.5	① ② ● ® N/A	47.7
69076	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	45.2	● ② ③ ® N/A	44.2	✓ ② ③ ® N/A	43.8	✓ ② ③ ® N/A	43.3	✓ ② ③ ® N/A	46.1	● ② ③ ® N/A	47.4
69079	1	● ② ③ ® N/A	47.8	● ② ③ ® N/A	45.0	● ② ③ ® N/A	44.3	✓ ② ③ ® N/A	44.3	✓ ② ③ ® N/A	43.5	✓ ② ③ ® N/A	46.1	● ② ③ ® N/A	46.8
69183	2	① ● ③ ® N/A	48.3	① ● ③ ® N/A	47.5	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	45.7	① ✓ ③ ® N/A	44.5	① ✓ ③ ® N/A	46.4	① ● ③ ® N/A	47.9

ATTACHMENT 2

Page 3 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	45.1	● ② ③ ® N/A	44.2	✓ ② ③ ® N/A	43.8	✓ ② ③ ® N/A	43.6	✓ ② ③ ® N/A	46.0	● ② ③ ® N/A	46.9
69280	1	● ② ③ ® N/A	48.4	● ② ③ ® N/A	46.3	● ② ③ ® N/A	44.6	✓ ② ③ ® N/A	43.7	✓ ② ③ ® N/A	43.8	✓ ② ③ ® N/A	46.5	● ② ③ ® N/A	47.2
69298	1	● ② ③ ® N/A	48.9	● ② ③ ® N/A	45.8	● ② ③ ® N/A	45.2	✓ ② ③ ® N/A	45.0	✓ ② ③ ® N/A	44.5	✓ ② ③ ® N/A	46.5	● ② ③ ® N/A	47.3
69361	3	① ② ● ® N/A	48.9	① ② ● ® N/A	45.5	① ② ● ® N/A	45.4	① ② ✓ ® N/A	43.3	① ② ✓ ® N/A	42.9	① ② ✓ ® N/A	45.2	① ② ● ® N/A	47.5
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	● ② ③ ® N/A	48.1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	44.2	✓ ② ③ ® N/A	42.4	✓ ② ③ ® N/A	43.3	✓ ② ③ ® N/A	45.8	● ② ③ ® N/A	47.4
69490	1	● ② ③ ® N/A	46.9	● ② ③ ® N/A	45.3	● ② ③ ® N/A	44.3	✓ ② ③ ® N/A	43.7	✓ ② ③ ® N/A	43.5	✓ ② ③ ® N/A	46.1	● ② ③ ® N/A	47.2
69491	3	① ② ● ® N/A	48.3	① ② ● ® N/A	46.5	① ② ● ® N/A	45.5	① ② ✓ ® N/A	43.7	① ② ✓ ® N/A	42.9	① ② ✓ ® N/A	44.9	① ② ● ® N/A	47.5
69519	3	① ② ● ® N/A	49.2	① ② ● ® N/A	47.7	① ② ● ® N/A	45.0	① ② ✓ ® N/A	45.2	① ② ✓ ® N/A	42.7	① ② ✓ ® N/A	45.4	① ② ● ® N/A	47.9
69520	1	● ② ③ ® N/A	48.5	● ② ③ ® N/A	45.7	● ② ③ ® N/A	44.7	✓ ② ③ ® N/A	44.8	✓ ② ③ ® N/A	44.3	✓ ② ③ ® N/A	46.6	● ② ③ ® N/A	47.5
69548	3	① ② ● ® N/A	48.6	① ② ● ® N/A	46.7	① ② ● ® N/A	45.7 ~~45.9~~	① ② ✓ ® N/A	44.4	① ② ✓ ® N/A	43.0	① ② ✓ ® N/A	45.5	① ② ● ® N/A	47.6
69553	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	46.2	① ● ③ ® N/A	45.3	① ✓ ③ ® N/A	44.2	① ✓ ③ ® N/A	44.0	① ✓ ③ ® N/A	45.4	① ● ③ ® N/A	47.2
69559	3	① ② ● ® N/A	48.3	① ② ● ® N/A	46.7	① ② ● ® N/A	45.7	① ② ✓ ® N/A	44.4	① ② ✓ ® N/A	42.9	① ② ✓ ® N/A	45.0	① ② ● ® N/A	47.5
69568	2	① ● ③ ® N/A	49.3	① ● ③ ® N/A	47.5	① ● ③ ® N/A	45.2	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	44.3	① ✓ ③ ® N/A	46.9	① ● ③ ® N/A	47.6
69595	3	① ② ● ® N/A	48.9	① ② ● ® N/A	46.6	① ② ● ® N/A	45.5	① ② ✓ ® N/A	43.8	① ② ✓ ® N/A	43.1	① ② ✓ ® N/A	45.6	① ② ● ® N/A	47.2
69598	2	① ● ③ ® N/A	48.8	① ● ③ ® N/A	46.7	① ● ③ ® N/A	45.3	① ✓ ③ ® N/A	44.2	① ✓ ③ ® N/A	44.0	① ✓ ③ ® N/A	45.0	① ● ③ ® N/A	46.8
69604	3	① ② ● ® N/A	50.3	① ② ● ® N/A	46.7	① ② ● ® N/A	45.6	① ② ✓ ® N/A	43.6	① ② ✓ ® N/A	43.3	① ✓ ② ® N/A	45.2	① ② ● ® N/A	47.7
69615	2	① ● ③ ® N/A	48.5	① ● ③ ® N/A	46.3	① ● ③ ® N/A	45.8	① ✓ ③ ® N/A	44.5	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.7	① ② ● ® N/A	48.5

ATTACHMENT 2

Page 4 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	● ② ③ ® N/A	48.6	● ② ③ ® N/A	46.4	● ② ③ ® N/A	45.1	✓ ② ③ ® N/A	45.7	✓ ② ③ ® N/A	44.4	✓ ② ③ ® N/A	46.4	● ② ③ ® N/A	47.6
69618	1	● ② ③ ® N/A	47.6	● ② ③ ® N/A	45.7	● ② ③ ® N/A	44.2	✓ ② ③ ® N/A	43.8	✓ ② ③ ® N/A	43.4	✓ ② ③ ® N/A	46.0	● ② ③ ® N/A	47.6
69620	1	● ② ③ ® N/A	47.7	● ② ③ ® N/A	46.4	● ② ③ ® N/A	44.8	✓ ② ③ ® N/A	43.8	✓ ② ③ ® N/A	43.9	✓ ② ③ ® N/A	46.7	● ② ③ ® N/A	46.8
69630	2	① ● ③ ® N/A	48.9	① ● ③ ® N/A	47.1	① ● ③ ® N/A	45.6	① ✓ ③ ® N/A	45.6	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.9	① ● ③ ® N/A	48.7
69633	2	① ● ③ ® N/A	48.2	① ● ③ ® N/A	47.1	① ● ③ ® N/A	46.0	① ✓ ③ ® N/A	45.0	① ✓ ③ ® N/A	44.9	① ✓ ③ ® N/A	46.7	① ● ③ ® N/A	48.2
69634	2	① ● ③ ® N/A	49.1	① ● ③ ® N/A	46.1	① ● ③ ® N/A	45.3	① ✓ ③ ® N/A	44.1	① ✓ ③ ® N/A	44.1	① ✓ ③ ® N/A	45.5	① ● ③ ® N/A	47.4
69635	2	① ● ③ ® N/A	50.0	① ● ③ ® N/A	48.0	① ● ③ ® N/A	45.8	① ✓ ③ ® N/A	46.1	① ✓ ③ ® N/A	44.8	① ✓ ③ ® N/A	46.7	① ● ③ ® N/A	47.9
69636	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	46.4	● ② ③ ® N/A	45.1	✓ ② ③ ® N/A	44.5	✓ ② ③ ® N/A	44.6	✓ ② ③ ® N/A	46.7	● ② ③ ® N/A	47.8
69637	2	① ● ③ ® N/A	49.4	① ● ③ ® N/A	47.7	① ● ③ ® N/A	46.3	① ✓ ③ ® N/A	45.1	① ✓ ③ ® N/A	45.4	① ✓ ③ ® N/A	46.9	① ● ③ ® N/A	48.4
69638	2	① ● ③ ® N/A	49.1	① ● ③ ® N/A	46.9	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	44.5	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.5	① ● ③ ® N/A	48.4
69639	2	① ● ③ ® N/A	48.7	① ● ③ ® N/A	46.9	① ● ③ ® N/A	46.3	① ✓ ③ ® N/A	45.2	① ✓ ③ ® N/A	45.3	① ✓ ③ ® N/A	46.9	① ● ③ ® N/A	48.3
69641	1	● ② ③ ® N/A	47.8	● ② ③ ® N/A	46.0	● ② ③ ® N/A	45.0	✓ ② ③ ® N/A	44.4	✓ ② ③ ® N/A	44.5	✓ ② ③ ® N/A	46.6	● ② ③ ® N/A	47.8
69642	2	① ● ③ ® N/A	48.6	① ● ③ ® N/A	46.4	① ● ③ ® N/A	45.8	① ✓ ③ ® N/A	44.2	① ✓ ③ ® N/A	44.6	① ✓ ③ ® N/A	46.9	① ● ③ ® N/A	48.4
69644	2	① ● ③ ® N/A	49.1	① ● ③ ® N/A	46.8	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	45.8	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.5	① ● ③ ® N/A	47.9
69645	3	① ② ● ® N/A	48.0	① ② ● ® N/A	46.6	① ② ● ® N/A	45.8	① ② ✓ ® N/A	43.8	① ② ✓ ® N/A	43.6	① ② ✓ ® N/A	45.9	① ② ● ® N/A	47.9
87827	3	① ② ● ® N/A	50.2	① ② ● ® N/A	47.0	① ② ● ® N/A	45.6	① ② ✓ ® N/A	44.0	① ② ✓ ® N/A	42.5	① ② ✓ ® N/A	45.5	① ② ● ® N/A	48.2
87823	3	① ② ● ® N/A	49.4	① ② ● ® N/A	46.6	① ② ● ® N/A	45.0	① ② ✓ ® N/A	44.0	① ② ✓ ® N/A	42.5	① ② ✓ ® N/A	45.5	① ② ● ® N/A	47.8

ATTACHMENT 2
Page 5 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ● ® N/A	47.5	① ② ● ® N/A	45.4	① ② ● ® N/A	45.0	① ② ✓ ® N/A	42.7	① ② ✓ ® N/A	41.7	① ② ✓ ® N/A	44.9	① ② ● ® N/A	46.1
87826	3	① ② ● ® N/A	48.3	① ② ● ® N/A	46.5	① ② ● ® N/A	45.2	① ② ✓ ® N/A	43.0	① ② ✓ ® N/A	42.4	① ② ✓ ® N/A	45.6	① ② ● ® N/A	48.6
92459	2	① ● ③ ® N/A	48.4	① ● ③ ® N/A	46.8	① ● ③ ® N/A	45.9	① ✓ ③ ® N/A	44.8	① ✓ ③ ® N/A	44.7	① ✓ ③ ® N/A	46.2	① ● ③ ® N/A	48.1
92472	2	① ● ③ ® N/A	48.4	① ● ③ ® N/A	46.8	① ● ③ ® N/A	45.4	① ✓ ③ ® N/A	45.9	① ✓ ③ ® N/A	44.4	① ✓ ③ ® N/A	46.1	① ● ③ ® N/A	48.3
92669	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	45.8	● ② ③ ® N/A	44.9	✓ ② ③ ® N/A	44.3	✓ ② ③ ® N/A	44.9	✓ ② ③ ® N/A	46.5	● ② ③ ® N/A	47.3
93605	3	① ② ● ® N/A	48.6	① ② ● ® N/A	47.9	① ② ● ® N/A	45.9	① ② ✓ ® N/A	43.8	① ② ✓ ® N/A	43.2	① ② ✓ ® N/A	45.5	① ② ● ® N/A	47.9
94068	3	① ② ● ® N/A	48.8	① ② ● ® N/A	46.7	① ② ● ® N/A	46.0	① ② ✓ ® N/A	44.2	① ② ✓ ® N/A	43.2	① ② ✓ ® N/A	46.0	① ② ● ® N/A	47.8
94227	2	① ● ③ ® N/A	48.9	① ● ③ ® N/A	46.4	① ● ③ ® N/A	45.8	① ✓ ③ ® N/A	45.2	① ✓ ③ ® N/A	44.5	① ✓ ③ ® N/A	45.9	① ● ③ ® N/A	47.7
End Time (6.[16])		1359		1345		1356		1411		1315		1318		1313	
Initial (6.[16])		WO: GA WO: MZ		WO: RM WO: MZ		WO: GA WO: LM		WO: GA WO: MZ		WO: RM WO: LM		WO: FA WO: LM		WO: RM WO: LM	

ATTACHMENT 2
Page 6 of 6

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	174977	01-23-17
MATT ZOCCO	Matthew Zo	311676	01-23-17
Valerie Martinez	Valerie Martinez	239958	01/24/17
MATT ZOCCO	Matthew Zo	311676	01-24-17
Tina Aguirre	Tina Aguirre	174977	01-25-17
Leon Montoya	[illegible]	191526	01-25-17
Tina Aguirre	Tina Aguirre	174977	01-26-17
MATT ZOCCO	Matthew Zo	311676	01-26-17
Valerie Martinez	Valerie Martinez	239958	01/27/17
Leon Montoya	[illegible]	191526	01-27-17
Fabian Anaya	Fabian Anaya	174963	01-28-17
Leon Montoya	[illegible]	191526	01-28-17
Valerie Martinez	Valerie Martinez	239958	01-29-17
Leon Montoya	[illegible]	191526	01-29-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2

Page 1 of 6

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Date: 01-30-17 Time: 1313	Date: 01-31-17 Time: 1322	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:
TA-54-0375							
Calibrated infrared thermometer (6.[3])	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: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
	Brand: 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: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
	Brand: 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: 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 Temperatures (6.[4])	Cell 1: 48.1 °F Cell 2 48.5 °F Cell 3: 47.6 °F Refrig.: 39.4 °F	Cell 1: ~~48.7~~ 48.7 (01-31-17) Cell 2 48.4 °F Cell 3: 48.3 °F Refrig.: 39.6 °F	Cell 1: °F Cell 2 °F Cell 3: °F Refrig.: °F	Cell 1: °F Cell 2 °F Cell 3: °F Refrig.: °F	Cell 1: °F Cell 2 °F Cell 3: °F Refrig.: °F	Cell 1: °F Cell 2 °F Cell 3: °F Refrig.: °F	Cell 1: °F Cell 2 °F Cell 3: °F Refrig.: °F
($) Ambient Cell Temperatures ≤ 75°F; SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ~~☐ UNSAT~~ (01-31-17)	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT

WORKING COPY

Z# 124977

ATTACHMENT 2

Page 2 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ✓ ③ R N/A	47.9	① ✓ ③ R N/A	48.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68430	2	① ✓ ③ R N/A	48.7	① ✓ ③ R N/A	49.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68507	2	① ✓ ③ R N/A	48.9	① ✓ ③ R N/A	49.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68540	1	✓ ② ③ R N/A	48.9	✓ ② ③ R N/A	49.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68553	1	✓ ② ③ R N/A	49.0	✓ ② ③ R N/A	49.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68567	2	① ✓ ③ R N/A	48.0	① ✓ ③ R N/A	48.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68624	2	① ✓ ③ R N/A	49.4	① ✓ ③ R N/A	49.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68631	2	① ✓ ③ R N/A	48.8	① ✓ ③ R N/A	49.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68638	2	① ✓ ③ R N/A	48.9	① ✓ ③ R N/A	48.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68648	2	① ✓ ③ R N/A	49.7	① ✓ ③ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68665	3	① ② ✓ R N/A	48.1	① ② ✓ R N/A	48.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68685	1	✓ ② ③ R N/A	48.5	✓ ② ③ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69013	1	✓ ② ③ R N/A	48.5	✓ ② ③ R N/A	48.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69015	2	① ✓ ③ R N/A	49.1	① ✓ ③ R N/A	49.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69036	3	① ② ✓ R N/A	47.8	① ② ✓ R N/A	48.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69076	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69079	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69183	2	① ✓ ③ R N/A	48.0	① ✓ R N/A	49.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	

ATTACHMENT 2

Page 3 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	48.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69280	1	✓ ② ③ R N/A	48.9	✓ ② ③ R N/A	49.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69298	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69361	3	① ② ✓ R N/A	47.7	① ② ✓ R N/A	48.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	✓ ② ③ R N/A	49.8	✓ ② ③ R N/A	49.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69490	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69491	3	① ② ✓ R N/A	48.4	① ② ✓ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69519	3	① ② ✓ R N/A	48.1	① ② ✓ R N/A	48.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69520	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69548	3	① ② ✓ R N/A	48.4	① ② ✓ R N/A	49.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69553	2	① ✓ ③ R N/A	48.1	① ✓ ③ R N/A	47.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69559	3	① ② ✓ R N/A	48.2	① ② ✓ R N/A	48.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69568	2	① ✓ ③ R N/A	48.5	① ✓ ③ R N/A	48.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69595	3	① ② ✓ R N/A	47.8	① ② ✓ R N/A	48.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69598	2	① ✓ ③ R N/A	47.8	① ✓ ③ R N/A	48.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69604	3	① ② ✓ R N/A	48.1	① ② ✓ R N/A	48.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69615	2	① ✓ ③ R N/A	48.8	① ✓ ③ R N/A	50.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	

ATTACHMENT 2

Page 4 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	✓ ② ③ R N/A	49.2	✓ ② ③ R N/A	49.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69618	1	✓ ② ③ R N/A	49.8	✓ ② ③ R N/A	49.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69620	1	✓ ② ③ R N/A	48.6	✓ ② ③ R N/A	49.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69630	2	① ✓ ③ R N/A	49.2	① ✓ ③ R N/A	49.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69633	2	① ✓ ③ R N/A	49.2	① ✓ ③ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69634	2	① ✓ ③ R N/A	48.1	① ✓ ③ R N/A	48.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69635	2	① ✓ ③ R N/A	48.9	① ✓ ③ R N/A	49.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69636	1	✓ ② ③ R N/A	49.1	✓ ② ③ R N/A	49.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69637	2	① ✓ ③ R N/A	49.4	① ✓ ③ R N/A	49.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69638	2	① ✓ ③ R N/A	49.4	① ✓ ③ R N/A	49.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69639	2	① ✓ ③ R N/A	49.2	① ✓ ③ R N/A	49.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69641	1	✓ ② ③ R N/A	49.1	✓ ② ③ R N/A	49.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69642	2	① ✓ ③ R N/A	49.3	① ✓ ③ R N/A	49.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69644	2	① ✓ ③ R N/A	49.0	① ✓ ③ R N/A	49.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69645	3	① ② ✓ R N/A	48.6	① ② ✓ R N/A	48.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87827	3	① ② ✓ R N/A	48.0	① ② ✓ R N/A	49.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87823	3	① ② ✓ R N/A	48.0	① ② ✓ R N/A	49.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	

ATTACHMENT 2
Page 5 of 6

Container ID #	Original Cell Location	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
87825	3	① ② ✓ R N/A 48.5	① ② ✓ R N/A 48.5	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
87826	3	① ② ✓ R N/A 48.7	① ② ✓ R N/A 49.6	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
92459	2	① ✓ ③ R N/A 48.9	① ✓ ③ R N/A 49.1	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
92472	2	① ✓ ③ R N/A 48.4	① ✓ ③ R N/A 49.0	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
92669	1	✓ ② ③ R N/A 49.0	✓ ② ③ R N/A 49.3	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
93605	3	① ② ✓ R N/A 48.5	① ② ✓ R N/A 48.9	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
94068	3	① ② ✓ R N/A 48.1	① ② ✓ R N/A 48.5	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
94227	2	① ✓ ③ R N/A 48.8	① ✓ ③ R N/A 49.0	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A	① ② ③ R N/A
End Time (6.[16])		1415	1402					
Initial (6.[16])		WO: [illegible] WO: LM	WO: [illegible] WO: LM	WO: WO:	WO: WO:	WO: WO:	WO: WO:	WO: WO:

ATTACHMENT 2
Page 6 of 6

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date	Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	174977	01-30-17				
Leon Montoya		199526	01-30-17				
Tina Aguirre	Tina Aguirre	174977	01-31-17				
Leon Montoya		199526	01-31-17				

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

WORKING COPY
Z# 191526
INITIAL LM DATE 02-01-17

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
			1301 02-01-17	02-02-17 / 1326	02-03-17 / 1300	02-04-17 / 1301	02-05-17 / 1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	Brand:	Brand:	Brand: Fluke	Brand: Fluke	Brand: Fluke	Brand: Fluke	Brand: Fluke
	Model:	Model:	Model: 561	Model: 561	Model: 561	Model: 561	Model: 561
	Cal. Due Date:	Cal. Due Date:	Cal. Due Date: 06-20-17	Cal. Due Date: 06-20-17	Cal. Due Date: 06-20-17	Cal. Due Date: 06-20-17	Cal. Due Date: 06-20-17
	File Number	File Number	File Number 101975	File Number 101975	File Number 101975	File Number 101975	File Number 101975
Ambient Temperature (6.[4])	Cell 1: ____ °F	Cell 1: ____ °F	Cell 1: 50.4 °F	Cell 1: 49.9 °F	Cell 1: 48.7 °F	Cell 1: 49.5 °F	Cell 1: 50.1 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	N/A ☐ SAT ☐ UNSAT	N/A ☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: ____ °F	Refrig.: ____ °F	Refrig.: 33.2 °F	Refrig.: 33.7 °F	Refrig.: 32.9 °F	Refrig.: 33.0 °F	Refrig.: 33.7 °F
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68685	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	51.8	① ② ③ ® N/A	52.0	① ② ③ ® N/A	49.5	① ② ③ ® N/A	50.6	① ② ③ ® N/A	51.4
68540	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.5	① ② ③ ® N/A	50.4	① ② ③ ® N/A	49.0	① ② ③ ® N/A	50.2	① ② ③ ® N/A	51.0
68553	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.5	① ② ③ ® N/A	48.0	① ② ③ ® N/A	50.4	① ② ③ ® N/A	50.3
69445	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	51.3	① ② ③ ® N/A	50.9	① ② ③ ® N/A	49.4	① ② ③ ® N/A	50.8	① ② ③ ® N/A	50.9

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69618	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.5	① ② ③ ® N/A	51.0	① ② ③ ® N/A	49.2	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.8
69013	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.2	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.5	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.3
69076	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.9	① ② ③ ® N/A	50.0	① ② ③ ® N/A	48.8	① ② ③ ® N/A	50.3	① ② ③ ® N/A	50.6
69490	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.5	① ② ③ ® N/A	50.3	① ② ③ ® N/A	48.6	① ② ③ ® N/A	50.7	① ② ③ ® N/A	51.4
69280	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.2	① ② ③ ® N/A	50.1	① ② ③ ® N/A	49.0	① ② ③ ® N/A	50.2	① ② ③ ® N/A	51.0
69208	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.0	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.9	① ② ③ ® N/A	50.5
69079	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.9	① ② ③ ® N/A	50.6
69636	① ② ③ ® N/A	NA	① ② ③ ® N/A		① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.7	① ② ③ ® N/A	49.1	① ② ③ ® N/A	50.3	① ② ③ ® N/A	50.9
69616	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.8	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.2	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.6
69417	N/A		N/A		N/A	~~50.~~	N/A		N/A		N/A		N/A	
69620	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.5	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.3	① ② ③ ® N/A	50.7	① ② ③ ® N/A	50.9
69520	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.8	① ② ③ ® N/A	50.2	① ② ③ ® N/A	49.8	① ② ③ ® N/A	50.3	① ② ③ ® N/A	50.5
69641	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	51.3	① ② ③ ® N/A	50.4	① ② ③ ® N/A	49.5	① ② ③ ® N/A	50.7	① ② ③ ® N/A	51.4
69298	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.5	① ② ③ ® N/A	50.2	① ② ③ ® N/A	48.9	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.7
92669	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.2	① ② ③ ® N/A	50.6	① ② ③ ® N/A	49.8	① ② ③ ® N/A	51.0	① ② ③ ® N/A	50.5
End Time (6.[16])					1305		1329		1305		1306		1305	
Initial (6.[16])	WO: ____ WO: ____		WO: ____ WO: ____		WO: LM WO: QA		WO: LM WO: QA		WO: [illegible] WO: QA		WO: [illegible] WO: QA		WO: [illegible] WO: QA	

ATTACHMENT 2
Page 3 of 3

Comments: New Rev. as of 02/01/17

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	02-01-17
Tina Aguirre		174977	02-01-17
Leon Montoya		191526	02-02-17
Tina Aguirre		174977	02-02-17
Robert Hansel		291778	02/03-17
Tina Aguirre		174977	02-03-17
Robert Hansel		291778	02-04-17
Tina Aguirre		174977	02-04-17
Robert Hansel		291778	02-05-17
Tina Aguirre		174977	02-05-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

WORKING COPY
Z# 174977
INITIAL DA DATE 02-01-17

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A = removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
			1305 02-01-17	02-02-17 / 1330	02-03-17 / 1306	02-04-17 / 1307	02-05-17 / 1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	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.[4])	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: 49.5 °F	Cell 2: 49.9 °F	Cell 2: 49.1 °F	Cell 2: 50.1 °F	Cell 2: 49.6 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.1	① ② ③ ® N/A 49.2	① ② ③ ® N/A 48.7	① ② ③ ® N/A 49.3	① ② ③ ® N/A 49.6
68638	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.9	① ② ③ ® N/A 49.7	① ② ③ ® N/A 49.4	① ② ③ ® N/A 49.6	① ② ③ ® N/A 50.0
69615	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	50.4	① ② ③ ® N/A 49.9	① ② ③ ® N/A 49.8	① ② ③ ® N/A 50.0	① ② ③ ® N/A 50.4
69635	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	50.2	① ② ③ ® N/A 50.0	① ② ③ ® N/A 50.0	① ② ③ ® N/A 50.3	① ② ③ ® N/A 50.6
69642	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	50.4	① ② ③ ® N/A 50.4	① ② ③ ® N/A 50.2	① ② ③ ® N/A 50.7	① ② ③ ® N/A 50.5
69630	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	50.0	① ② ③ ® N/A 50.0	① ② ③ ® N/A 49.6	① ② ③ ® N/A 50.1	① ② ③ ® N/A 50.2
69633	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	50.6	① ② ③ ® N/A 50.1	① ② ③ ® N/A 49.6	① ② ③ ® N/A 50.4	① ② ③ ® N/A 50.0
68430	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.7	① ② ③ ® N/A 49.9	① ② ③ ® N/A 49.5	① ② ③ ® N/A 49.6	① ② ③ ® N/A 49.3
68631	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.7	① ② ③ ® N/A 49.6	① ② ③ ® N/A 49.4	① ② ③ ® N/A 49.9	① ② ③ ® N/A 49.6
68567	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.1	① ② ③ ® N/A 49.1	① ② ③ ® N/A 48.8	① ② ③ ® N/A 49.3	① ② ③ ® N/A 49.1
69634	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	49.4	① ② ③ ® N/A 49.2	① ② ③ ® N/A 48.9	① ② ③ ® N/A 49.5	① ② ③ ® N/A 49.5

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
94227	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.3	① ② ③ ® N/A	49.7	① ② ③ ® N/A	50.0
68648	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.8
69644	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.4	① ② ③ ® N/A	50.0	① ② ③ ® N/A	50.0
69183	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.1	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.7
69638	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.6	① ② ③ ® N/A	50.4	① ② ③ ® N/A	49.7	① ② ③ ® N/A	50.4
68624	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.6	① ② ③ ® N/A	50.0	① ② ③ ® N/A	50.0
68507	① ② ③ ® N/A	N/A	① ② ③ ® N/A		① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.7
69568	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.0	① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.6
69553	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.3	① ② ③ ® N/A	49.3	① ② ③ ® N/A	48.9	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.4
69598	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.3	① ② ③ ® N/A	48.9	① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.2
92472	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.0	① ② ③ ® N/A	49.3	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.8
92459	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.4
69015	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.8
69639	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.7	① ② ③ ® N/A	50.3	① ② ③ ® N/A	50.4
69637	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.8	① ② ③ ® N/A	50.2	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.2
End Time (6.[16])					1313		1336		1311		1312		1311	
Initial (6.[16])	WO: WO:		WO: WO:		WO: LM WO: DA		WO: DA WO: LM		WO: DA WO: DA		WO: TKS WO: DA		WO: DA WO: DA	

ATTACHMENT 3
Page 3 of 3

Comments: New Rev. as of 02-01-17

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leo Montoya		191526	02-01-17
Tina Aguirre		174977	02-01-17
Leo Montoya		191526	02-02-17
Tina Aguirre		174977	02-02-17
Robert Hansel		291778	02-03-17
Tina Aguirre		174977	02-03-17
Robert Hansel		291778	02-04-17
Tina Aguirre		174977	02-04-17
Robert Hansel		291778	02-05-17
Tina Aguirre		174977	02-05-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

WORKING COPY
Z# 174977
INITIAL at DATE 02-01-17

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
			1313 02-01-17	02-02-17 / 1337	02-03-17 / 1312	02-04-17 / 1313	02-05-17 / 1312
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	Brand: Model: Cal. Due Date: File Number NA	Brand: Model: Cal. Due Date: File Number	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.[4])	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: 49.2 °F	Cell 3: 48.2 °F	Cell 3: 48.3 °F	Cell 3: 48.9 °F	Cell 3: 48.9 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)															
69519	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.4	① ② ③ ® N/A	48.5	① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.2
69645	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	48.8	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.8
94068	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.4	① ② ③ ® N/A	50.1	① ② ③ ® N/A	49.9
93605	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.0	① ② ③ ® N/A	50.1	① ② ③ ® N/A	49.5	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.0
69548	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.3	① ② ③ ® N/A	50.0	① ② ③ ® N/A	49.6

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.3	① ② ③ ® N/A	48.4	① ② ③ ® N/A	49.0	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.9
68665	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.2	① ② ③ ® N/A	48.1	① ② ③ ® N/A	49.4	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.4
69595	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.5	① ② ③ ® N/A	48.7	① ② ③ ® N/A	48.7	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.3
69036	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.6
69361	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.3	① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.9
69559	① ② ③ ® N/A	NA	① ② ③ ® N/A		① ② ③ ® N/A	49.8	① ② ③ ® N/A	49.2	① ② ③ ® N/A	49.2	① ② ③ ® N/A	50.2	① ② ③ ® N/A	49.8
69491	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	48.8	① ② ③ ® N/A	49.4	① ② ③ ® N/A	48.9	① ② ③ ® N/A	49.5	① ② ③ ® N/A	49.6
87827	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.4	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.0	① ② ③ ® N/A	50.5
87826	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.9	① ② ③ ® N/A	50.3	① ② ③ ® N/A	49.6	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.3
87823	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	50.2	① ② ③ ® N/A	49.1	① ② ③ ® N/A	49.5	① ② ③ ® N/A	50.4	① ② ③ ® N/A	50.5
87825	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	49.9	① ② ③ ® N/A	49.6	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.8
End Time (6.[16])					1320		1340		1316		1317		1316	
Initial (6.[16])	WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 4
Page 3 of 3

Comments: New Rev. as of 02-01-17

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	02-01-17
Tina Aguirre		174977	02-01-17
Leon Montoya		191526	02-02-17
Tina Aguirre		174977	02-02-17
Robert Hansel		291778	02-03-17
Tina Aguirre		174977	02-03-17
Robert Hansel		291778	02-04-17
Tina Aguirre		174977	02-04-17
Robert Hansel		291778	02-05-17
Tina Aguirre		174977	02-05-17
	/	/	/
	/	/	/
	/	/	/
	/	/	/
	/	/	/

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date
	/	/	/

ATTACHMENT 2
Page 1 of 3

WORKING COPY
Z# 174977
INITIAL at DATE 02-06-17

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
	02-06-17/1320	02-07-17/1307	02-08-17/1350	02-09-17/1313	02-10-17/1301	02-11-17/1301	02-12-17/1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	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.[4])	Cell 1: 50.7 °F	Cell 1: 50.7 °F	Cell 1: 52.2 °F	Cell 1: ~~51.7~~ 53.1 °F 02-9-17	Cell 1: 52.4 °F	Cell 1: 51.4 °F	Cell 1: 57.0 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT
Ambient Temperature (6.[7])	Refrig.: 35.7 °F	Refrig.: 34.4 °F	Refrig.: 34.7 °F	Refrig.: 36.4 °F	Refrig.: 34.6 °F	Refrig.: 37.0 °F	Refrig.: 37.1 °F
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1. SAC 5.7.24 (6.[7])	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT	☑ SAT □ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ® N/A 51.1	① ② ③ ® N/A 53.3	① ② ③ ® N/A 56.7	① ② ③ ® N/A 53.0	① ② ③ ® N/A 53.0	① ② ③ ® N/A 53.7	① ② ③ ® N/A 51.2
68540	① ② ③ ® N/A 51.5	① ② ③ ® N/A 51.1	① ② ③ ® N/A 53.1	① ② ③ ® N/A 52.6	① ② ③ ® N/A 53.2	① ② ③ ® N/A 53.0	① ② ③ ® N/A 52.0
68553	① ② ③ ® N/A 51.0	① ② ③ ® N/A 51.8	① ② ③ ® N/A 53.3	① ② ③ ® N/A 53.1	① ② ③ ® N/A 53.1	① ② ③ ® N/A 53.8	① ② ③ ® N/A 51.6
69445	① ② ③ ® N/A 52.7	① ② ③ ® N/A 53.2	① ② ③ ® N/A 54.8	① ② ③ ® N/A 52.5	① ② ③ ® N/A 53.1	① ② ③ ® N/A 53.8	① ② ③ ® N/A 51.8

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69618	✓ ② ③ ® N/A	50.4	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.8	✓ ② ③ ® N/A	52.7	✓ ② ③ ® N/A	52.7	✓ ② ③ ® N/A	52.3	✓ ② ③ ® N/A	51.1
69013	✓ ② ③ ® N/A	49.2	✓ ② ③ ® N/A	51.1	✓ ② ③ ® N/A	52.2	✓ ② ③ ® N/A	52.4	✓ ② ③ ® N/A	51.8	✓ ② ③ ® N/A	52.5	✓ ② ③ ® N/A	52.7
69076	✓ ② ③ ® N/A	51.0	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	53.4	✓ ② ③ ® N/A	51.8	✓ ② ③ ® N/A	52.2	✓ ② ③ ® N/A	53.3	✓ ② ③ ® N/A	51.3
69490	✓ ② ③ ® N/A	50.1	✓ ② ③ ® N/A	51.4	✓ ② ③ ® N/A	53.0	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	51.7	✓ ② ③ ® N/A	53.3	✓ ② ③ ® N/A	50.8
69280	✓ ② ③ ® N/A	50.5	✓ ② ③ ® N/A	52.9	✓ ② ③ ® N/A	53.0	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	51.0	✓ ② ③ ® N/A	50.5
69208	✓ ② ③ ® N/A	50.2	✓ ② ③ ® N/A	51.0	✓ ② ③ ® N/A	51.8	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	53.0	✓ ② ③ ® N/A	51.2
69079	✓ ② ③ ® N/A	49.9	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	53.8	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	52.9	✓ ② ③ ® N/A	53.1
69636	✓ ② ③ ® N/A	51.2	✓ ② ③ ® N/A	52.9	✓ ② ③ ® N/A	52.2	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	51.4	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	51.1
69616	✓ ② ③ ® N/A	50.1	✓ ② ③ ® N/A	51.1	✓ ② ③ ® N/A	51.6	✓ ② ③ ® N/A	50.8	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	52.6	✓ ② ③ ® N/A	50.9
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	✓ ② ③ ® N/A	52.3	✓ ② ③ ® N/A	52.7	✓ ② ③ ® N/A	52.5	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	52.3	✓ ② ③ ® N/A	53.2	✓ ② ③ ® N/A	53.2
69520	✓ ② ③ ® N/A	49.8	✓ ② ③ ® N/A	51.2	✓ ② ③ ® N/A	53.5	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.3	✓ ② ③ ® N/A	53.1	✓ ② ③ ® N/A	51.7
69641	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	53.0	✓ ② ③ ® N/A	52.9	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.8	✓ ② ③ ® N/A	53.4	✓ ② ③ ® N/A	50.9
69298	✓ ② ③ ® N/A	49.8	✓ ② ③ ® N/A	52.1	✓ ② ③ ® N/A	52.9	✓ ② ③ ® N/A	51.9	✓ ② ③ ® N/A	51.6	✓ ② ③ ® N/A	51.8	✓ ② ③ ® N/A	51.0
92669	✓ ② ③ ® N/A	49.6	✓ ② ③ ® N/A	51.3	✓ ② ③ ® N/A	51.8	✓ ② ③ ® N/A	51.7	✓ ② ③ ® N/A	52.0	✓ ② ③ ® N/A	51.7	✓ ② ③ ® N/A	52.0
End Time (6.[16])	1325		1312		1354		1317		1307		1306		1305	
Initial (6.[16])	WO: MZ WO: QA		WO: MZ WO: QA		WO: MZ WO: QA		WO: LM WO: QA		WO: FA WO: LM		WO: FA WO: RV		WO: FA WO: RV	

ATTACHMENT 2
Page 3 of 3

Comments: No Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
MATT ZOCCO		311676	02-06-17
Tina Aguirre		174977	02-06-17
MATT ZOCCO		311676	02-07-17
Tina Aguirre		174977	02-07-17
MATT ZOCCO		311676	02-08-17
Tina Aguirre		174977	02-08-17
Leon Montoya		191526	02-09-17
Tina Aguirre		174977	02-09-17
Leon Montoya		191526	02-10-17
Fabian Avaya		174963	02-10-17
Fabian Avaya		174963	02-11-17
Rudy Valpando		1220276	12-11-17
Fabian Avaya		174963	12-12-17
Rudy Valpando		1220276	12-12-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

WORKING COPY
Z# 174927
INITIAL DA DATE 02-06-17

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 02-06-17/1326	Tuesday 6.[2] Date & Start Time: 02-07-17/1312	Wednesday 6.[2] Date & Start Time: 02-08-17/1354	Thursday 6.[2] Date & Start Time: 02-09-17/1338	Friday 6.[2] Date & Start Time: 02-10-17/1308	Saturday 6.[2] Date & Start Time: 02-11-17/1307	Sunday 6.[2] Date & Start Time: 02-12-17/1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	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.[4])	Cell 2: 49.8 °F	Cell 2: 50.3 °F	Cell 2: 54.6 °F	Cell 2: 50.0 °F	Cell 2: 50.0 °F	Cell 2: 56.5 °F	Cell 2: 58.5 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)

Container ID #	Mon ① ② ③ ® N/A	Mon temp	Tue ① ② ③ ® N/A	Tue temp	Wed ① ② ③ ® N/A	Wed temp	Thu ① ② ③ ® N/A	Thu temp	Fri ① ② ③ ® N/A	Fri temp	Sat 02-11-17 ① ② ③ ® N/A	Sat temp	Sun 02-12-17 ① ② ③ ® N/A	Sun temp
68408	① ② ③ ® N/A	51.4	① ② ③ ® N/A	50.0	① ② ③ ® N/A	53.5	① ② ③ ® N/A	50.1	① ② ③ ® N/A	49.8	① ② ③ ® N/A	52.3	① ② ③ ® N/A	57.5
68638	① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.6	① ② ③ ® N/A	53.7	① ② ③ ® N/A	50.0	① ② ③ ® N/A	48.8	① ② ③ ® N/A	51.5	① ② ③ ® N/A	58.1
69615	① ② ③ ® N/A	49.9	① ② ③ ® N/A	51.1	① ② ③ ® N/A	53.8	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.9	① ② ③ ® N/A	52.0	① ② ③ ® N/A	57.6
69635	① ② ③ ® N/A	50.2	① ② ③ ® N/A	50.7	① ② ③ ® N/A	55.9	① ② ③ ® N/A	50.5	① ② ③ ® N/A	51.0	① ② ③ ® N/A	51.7	① ② ③ ® N/A	58.9
69642	① ② ③ ® N/A	51.4	① ② ③ ® N/A	50.4	① ② ③ ® N/A	53.3	① ② ③ ® N/A	51.3	① ② ③ ® N/A	51.8	① ② ③ ® N/A	51.3	① ② ③ ® N/A	52.1
69630	① ② ③ ® N/A	50.0	① ② ③ ® N/A	52.7	① ② ③ ® N/A	54.4	① ② ③ ® N/A	50.5	① ② ③ ® N/A	50.5	① ② ③ ® N/A	51.2	① ② ③ ® N/A	52.6
69633	① ② ③ ® N/A	49.7	① ② ③ ® N/A	49.6	① ② ③ ® N/A	52.4	① ② ③ ® N/A	50.6	① ② ③ ® N/A	51.2	① ② ③ ® N/A	51.1	① ② ③ ® N/A	51.3
68430	① ② ③ ® N/A	50.9	① ② ③ ® N/A	50.1	① ② ③ ® N/A	54.6	① ② ③ ® N/A	49.6	① ② ③ ® N/A	49.3	① ② ③ ® N/A	50.0	① ② ③ ® N/A	51.7
68631	① ② ③ ® N/A	49.7	① ② ③ ® N/A	50.0	① ② ③ ® N/A	54.3	① ② ③ ® N/A	49.7	① ② ③ ® N/A	48.7	① ② ③ ® N/A	49.1	① ② ③ ® N/A	57.2
68567	① ② ③ ® N/A	49.9	① ② ③ ® N/A	51.2	① ② ③ ® N/A	55.6	① ② ③ ® N/A	48.8	① ② ③ ® N/A	49.9	① ② ③ ® N/A	50.6	① ② ③ ® N/A	58.9
69634	① ② ③ ® N/A	49.1	① ② ③ ® N/A	48.7	① ② ③ ® N/A	51.9	① ② ③ ® N/A	49.5	① ② ③ ® N/A	48.6	① ② ③ ® N/A	50.3	① ② ③ ® N/A	51.4

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
94227	① ✓ ③ ® N/A	51.6	① ✓ ③ ® N/A	48.7	① ✓ ③ ® N/A	56.1	① ✓ ③ ® N/A	49.0	① ✓ ③ ® N/A	49.2	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	57.3
68648	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	49.0	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.3
69644	① ✓ ③ ® N/A	49.6	① ✓ ③ ® N/A	52.0	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	51.5	① ✓ ③ ® N/A	50.5
69183	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	49.5	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	50.4	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	50.6
69638	① ✓ ③ ® N/A	49.8	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	50.8
68624	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	51.7	① ✓ ③ ® N/A	51.5
68507	① ✓ ③ ® N/A	49.6	① ✓ ③ ® N/A	50.8	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	50.2
69568	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	49.4	① ✓ ③ ® N/A	49.5	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	50.6
69553	① ✓ ③ ® N/A	51.0	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	49.5	① ✓ ③ ® N/A	49.5	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	50.2
69598	① ✓ ③ ® N/A	49.8	① ✓ ③ ® N/A	49.6	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	49.3	① ✓ ③ ® N/A	49.1	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	57.3
92472	① ✓ ③ ® N/A	49.6	① ✓ ③ ® N/A	49.7	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	49.2	① ✓ ③ ® N/A	49.1	① ✓ ③ ® N/A	49.6	① ✓ ③ ® N/A	51.1
92459	① ✓ ③ ® N/A	49.7	① ✓ ③ ® N/A	49.7	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	49.3	① ✓ ③ ® N/A	49.0	① ✓ ③ ® N/A	49.5	① ✓ ③ ® N/A	49.7
69015	① ✓ ③ ® N/A	49.7	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	49.2	① ✓ ③ ® N/A	49.3	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.2
69639	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	50.4
69637	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	51.3	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	50.8	① ✓ ③ ® N/A	56.3
End Time (6.[16])	1330		1316		1358		1322		1315		1316		1314	
Initial (6.[16])	WO: MZ WO: QA		WO: MZ WO: QA		WO: MZ WO: QA		WO: QA WO: [illegible]		WO: FA WO: [illegible]		WO: FA WO: RV		WO: FA WO: RV	

ATTACHMENT 3
Page 3 of 3

Comments: No Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
MATT ZOCCO		311676	02-06-17
Tina Aguirre		174977	02-06-17
MATT ZOCCO		311676	02-07-17
Tina Aguirre		174977	02-07-17
MATT ZOCCO		311676	02-08-17
Tina Aguirre		174977	02-08-17
Leon Montoya		191526	02-09-17
Tina Aguirre		174977	02-09-17
Leon Montoya		191526	02-10-17
Fabian Anaya		174963	02-10-17
Fabian Anaya		174963	02-11-17
Rudy Vigil		220276	12-11-17
Fabian Anaya		174963	02-12-17
Rudy Vigil		220276	12-12-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

WORKING COPY
Z# 174927
INITIAL DA DATE 02-06-17

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
	02-06-17 / 1331	02-07-17 / 1316	02-08-17 / ~~1320~~ 1358 DA 02-08-17	02-09-17 / 1323	02-10-17 / 1316	02-11-17 / 1317	02-12-17 / 1315
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	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.[4])	Cell 3: 49.1 °F	Cell 3: 50.1 °F	Cell 3: 62.9 °F	Cell 3: 51.0 °F	Cell 3: 50.4 °F	Cell 3: 51.6 °F	Cell 3: 49.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69519	① ② ③ ® N/A	51.0	① ② ③ ® N/A	51.8	① ② ③ ® N/A	63.8	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.7	① ② ③ ® N/A	52.2	① ② ③ ® N/A	50.4
69645	① ② ③ ® N/A	48.9	① ② ③ ® N/A	50.3	① ② ③ ® N/A	64.6	① ② ③ ® N/A	50.6	① ② ③ ® N/A	50.4	① ② ③ ® N/A	52.0	① ② ③ ® N/A	49.7
94068	① ② ③ ® N/A	48.8	① ② ③ ® N/A	50.2	① ② ③ ® N/A	65.9	① ② ③ ® N/A	50.4	① ② ③ ® N/A	50.4	① ② ③ ® N/A	51.1	① ② ③ ® N/A	49.6
93605	① ② ③ ® N/A	50.2	① ② ③ ® N/A	51.4	① ② ③ ® N/A	64.3	① ② ③ ® N/A	51.1	① ② ③ ® N/A	51.1	① ② ③ ® N/A	52.2	① ② ③ ® N/A	51.4
69548	① ② ③ ® N/A	49.8	① ② ③ ® N/A	51.0	① ② ③ ® N/A	65.9	① ② ③ ® N/A	51.8	① ② ③ ® N/A	52.5	① ② ③ ® N/A	52.3	① ② ③ ® N/A	50.0

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ✓ ® N/A	50.6	① ② ③ ✓ ® N/A	50.8	① ② ③ ✓ ® N/A	63.5	① ② ③ ✓ ® N/A	57.2	① ② ③ ✓ ® N/A	57.2	① ② ③ ✓ ® N/A	52.2	① ② ③ ✓ ® N/A	49.4
68665	① ② ③ ✓ ® N/A	48.7	① ② ③ ✓ ® N/A	50.4	① ② ③ ✓ ® N/A	64.1	① ② ③ ✓ ® N/A	57.1	① ② ③ ✓ ® N/A	50.5	① ② ③ ✓ ® N/A	51.3	① ② ③ ✓ ® N/A	49.3
69595	① ② ③ ✓ ® N/A	48.9	① ② ③ ✓ ® N/A	52.4	① ② ③ ✓ ® N/A	66.0	① ② ③ ✓ ® N/A	57.0	① ② ③ ✓ ® N/A	50.8	① ② ③ ✓ ® N/A	52.4	① ② ③ ✓ ® N/A	50.0
69036	① ② ③ ✓ ® N/A	50.4	① ② ③ ✓ ® N/A	50.1	① ② ③ ✓ ® N/A	65.9	① ② ③ ✓ ® N/A	57.4	① ② ③ ✓ ® N/A	57.4	① ② ③ ✓ ® N/A	52.3	① ② ③ ✓ ® N/A	50.6
69361	① ② ③ ✓ ® N/A	49.1	① ② ③ ✓ ® N/A	52.7	① ② ③ ✓ ® N/A	64.4	① ② ③ ✓ ® N/A	57.2	① ② ③ ✓ ® N/A	57.3	① ② ③ ✓ ® N/A	52.0	① ② ③ ✓ ® N/A	50.1
69559	① ② ③ ✓ ® N/A	49.0	① ② ③ ✓ ® N/A	51.1	① ② ③ ✓ ® N/A	64.1	① ② ③ ✓ ® N/A	51.7	① ② ③ ✓ ® N/A	50.8	① ② ③ ✓ ® N/A	52.1	① ② ③ ✓ ® N/A	49.6
69491	① ② ③ ✓ ® N/A	49.4	① ② ③ ✓ ® N/A	52.3	① ② ③ ✓ ® N/A	64.3	① ② ③ ✓ ® N/A	51.6	① ② ③ ✓ ® N/A	52.1	① ② ③ ✓ ® N/A	51.3	① ② ③ ✓ ® N/A	49.5
87827	① ② ③ ✓ ® N/A	50.3	① ② ③ ✓ ® N/A	53.2	① ② ③ ✓ ® N/A	65.6	① ② ③ ✓ ® N/A	52.1	① ② ③ ✓ ® N/A	52.6	① ② ③ ✓ ® N/A	53.3	① ② ③ ✓ ® N/A	51.2
87826	① ② ③ ✓ ® N/A	49.6	① ② ③ ✓ ® N/A	51.1	① ② ③ ✓ ® N/A	64.4	① ② ③ ✓ ® N/A	52.1	① ② ③ ✓ ® N/A	52.7	① ② ③ ✓ ® N/A	53.1	① ② ③ ✓ ® N/A	51.2
87823	① ② ③ ✓ ® N/A	49.9	① ② ③ ✓ ® N/A	52.5	① ② ③ ✓ ® N/A	66.1	① ② ③ ✓ ® N/A	53.4	① ② ③ ✓ ® N/A	52.1	① ② ③ ✓ ® N/A	52.7	① ② ③ ✓ ® N/A	50.0
87825	① ② ③ ✓ ® N/A	49.3	① ② ③ ✓ ® N/A	52.2	① ② ③ ✓ ® N/A	66.7	① ② ③ ✓ ® N/A	57.8	① ② ③ ✓ ® N/A	52.8	① ② ③ ✓ ® N/A	52.3	① ② ③ ✓ ® N/A	50.4
End Time (6.[16])	1335		1320		1401		1326		1324		1325		1321	
Initial (6.[16])	WO: MZ WO: [illegible]		WO: MZ WO: [illegible]		WO: MZ WO: [illegible]		WO: [illegible] WO: [illegible]		WO: FK WO: [illegible]		WO: FK WO: [illegible]		WO: FK WO: RV	

ATTACHMENT 4
Page 3 of 3

Comments: No Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
MATT ZOCCO	Matthew Z	311676	02-06-17
Tina Aguirre	Tina Aguirre	174977	02-06-17
MATT ZOCCO	Matthew Z	311676	02-07-17
Tina Aguirre	Tina Aguirre	174977	02-07-17
Tina Aguirre	Tina Aguirre	174977	02-07-17
MATT ZOCCO	Matthew Z	311676	02-08-17
Tina Aguirre	Tina Aguirre	174977	02-08-17
Lee Montoya	[illegible]	191526	02-09-17
Tina Aguirre	Tina Aguirre	174977	02-09-17
Lee Montoya	[illegible]	191526	02-10-17
Fabian Araya	Fabian Araya	174963	02-10-17
Fabian Araya	Fabian Araya	174963	02-11-17
Rudy Vialpando	[illegible]	220276	02-11-17
Fabian Araya	Fabian Araya	174963	02-12-17
Rudy Vialpando	[illegible]	220276	02-12-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

WORKING COPY
Z# 124927
INITIAL QA DATE 02-13-17

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 02-13-17/1305	Tuesday 6.[2] Date & Start Time: 02-14-17/1300	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	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: 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.[4])	Cell 1: 46.3 °F	Cell 1: ~~50.1~~ 50.1 °F	Cell 1: °F	Cell 1: °F	Cell 1: °F	Cell 1: °F	Cell 1: °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: 33.9 °F	Refrig.: 33.5 °F	Refrig.: °F	Refrig.: °F	Refrig.: °F	Refrig.: °F	Refrig.: °F
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**						
68685	① ② ③ ® N/A	47.2	① ② ③ ® N/A	49.6	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68540	① ② ③ ® N/A	47.1	① ② ③ ® N/A	50.2	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68553	① ② ③ ® N/A	47.1	① ② ③ ® N/A	50.2	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69445	① ② ③ ® N/A	47.5	① ② ③ ® N/A	49.8	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69618	✓① ② ③ ® N/A	48.3	✓① ② ③ ® N/A	51.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69013	✓① ② ③ ® N/A	48.1	✓① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69076	✓① ② ③ ® N/A	48.0	✓① ② ③ ® N/A	50.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69490	✓① ② ③ ® N/A	47.8	✓① ② ③ ® N/A	50.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69280	✓① ② ③ ® N/A	48.5	✓① ② ③ ® N/A	50.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69208	✓① ② ③ ® N/A	47.6	✓① ② ③ ® N/A	50.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69079	✓① ② ③ ® N/A	47.8	✓① ② ③ ® N/A	50.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69636	✓① ② ③ ® N/A	47.9	✓① ② ③ ® N/A	50.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69616	✓① ② ③ ® N/A	47.9	✓① ② ③ ® N/A	50.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69417	N/A	-	N/A	-	N/A		N/A		N/A		N/A		N/A	
69620	✓① ② ③ ® N/A	48.1	✓① ② ③ ® N/A	50.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69520	✓① ② ③ ® N/A	48.2	✓① ② ③ ® N/A	50.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69641	✓① ② ③ ® N/A	48.2	✓① ② ③ ® N/A	50.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69298	✓① ② ③ ® N/A	48.0	✓① ② ③ ® N/A	50.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92669	✓① ② ③ ® N/A	48.0	✓① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
End Time (6.[16])	1309		1308											
Initial (6.[16])	WO: QA WO: LM		WO: FA WO: LM		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 2
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	02-13-17
Tina Aguirre	Tina Aguirre	174927	02-13-17
Leon Montoya		191526	02-14-17
Fabian Anaya	Fabian Anaya	174903	02-14-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 02-13-17/1360	Tuesday 6.[2] Date & Start Time: 02-14-17/1309	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number #01975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	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.[4])	Cell 2: 47.5 °F	Cell 2: 50.1 °F	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: ____ °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**						
68408	① ② ③ ® N/A	47.0	① ② ③ ® N/A	49.2	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68638	① ② ③ ® N/A	46.9	① ② ③ ® N/A	49.7	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69615	① ② ③ ® N/A	48.3	① ② ③ ® N/A	50.0	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69635	① ② ③ ® N/A	47.8	① ② ③ ® N/A	50.1	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69642	① ② ③ ® N/A	48.0	① ② ③ ® N/A	50.4	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69630	① ② ③ ® N/A	48.0	① ② ③ ® N/A	50.5	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69633	① ② ③ ® N/A	47.7	① ② ③ ® N/A	50.0	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68430	① ② ③ ® N/A	47.3	① ② ③ ® N/A	50.2	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68631	① ② ③ ® N/A	47.0	① ② ③ ® N/A	49.2	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
68567	① ② ③ ® N/A	46.3	① ② ③ ® N/A	49.0	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69634	① ② ③ ® N/A	46.8	① ② ③ ® N/A	49.3	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
94227	① ② ③ ® N/A	46.6	① ② ③ ® N/A	49.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68648	① ② ③ ® N/A	46.8	① ② ③ ® N/A	50.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69644	① ② ③ ® N/A	47.3	① ② ③ ® N/A	49.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69183	① ② ③ ® N/A	47.6	① ② ③ ® N/A	49.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69638	① ② ③ ® N/A	47.8	① ② ③ ® N/A	49.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68624	① ② ③ ® N/A	47.5	① ② ③ ® N/A	50.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68507	① ② ③ ® N/A	47.3	① ② ③ ® N/A	49.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69568	① ② ③ ® N/A	46.8	① ② ③ ® N/A	49.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69553	① ② ③ ® N/A	46.9	① ② ③ ® N/A	49.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69598	① ② ③ ® N/A	47.2	① ② ③ ® N/A	49.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92472	① ② ③ ® N/A	47.1	① ② ③ ® N/A	49.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92459	① ② ③ ® N/A	47.1	① ② ③ ® N/A	49.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69015	① ② ③ ® N/A	47.0	① ② ③ ® N/A	49.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69639	① ② ③ ® N/A	47.5	① ② ③ ® N/A	49.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69637	① ② ③ ® N/A	48.3	① ② ③ ® N/A	49.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
End Time (6.[16])	1314		1316											
Initial (6.[16])	WO: DA WO: CM		WO: FA WO: LM		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 3
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya	/	191526	02-13-17
Tina Aguirre	/	174977	02-13-17
Leon Montoya	/	191526	02-14-17
Fabian Anaya	/	1749603	02-14-17
	/	/	/
	/	/	/
	/	/	/
	/	/	/

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

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date
	/	/	/

ATTACHMENT 4
Page 1 of 3

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 02-13-17/1315	Tuesday 6.[2] Date & Start Time: 02-14-17/1317	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	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: 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.[4])	Cell 3: 45.5 °F	Cell 3: 49.6 °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT

Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)															
69519	① ② ③ ® N/A	45.0	① ② ③ ® N/A	48.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69645	① ② ③ ® N/A	45.5	① ② ③ ® N/A	49.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
94068	① ② ③ ® N/A	45.7	① ② ③ ® N/A	49.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
93605	① ② ③ ® N/A	45.6	① ② ③ ® N/A	50.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69548	① ② ③ ® N/A	46.0	① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A	45.6	① ② ③ ® N/A	50.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68665	① ② ③ ® N/A	45.3	① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69595	① ② ③ ® N/A	45.4	① ② ③ ® N/A	49.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69036	① ② ③ ® N/A	45.1	① ② ③ ® N/A	50.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69361	① ② ③ ® N/A	44.5	① ② ③ ® N/A	50.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69559	① ② ③ ® N/A	46.2	① ② ③ ® N/A	49.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69491	① ② ③ ® N/A	45.6	① ② ③ ® N/A	49.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87827	① ② ③ ® N/A	46.2	① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87826	① ② ③ ® N/A	46.1	① ② ③ ® N/A	50.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87823	① ② ③ ® N/A	46.0	① ② ③ ® N/A	50.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87825	① ② ③ ® N/A	45.8	① ② ③ ® N/A	50.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
End Time (6.[16])	1318		1323											
Initial (6.[16])	WO: LA WO: LM		WO: FA WO: LM		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 4
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	02-13-17
Tina Aguirre		174977	02-13-17
Leon Montoya		191526	02-14-17
Fabian Anaya		174963	02-14-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date