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Subject: Monthly Technical Submittal September 22, 2016 - October 19, 2016

Linked below is the written monthly technical summary September 22, 2016 - October 19, 2016. Summaries are due the third Wednesday of each month. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order;* the letters from NMED dated July 10, 2014, April 27, 2015, May 8, 2015 , and August 12, 2015 regarding *Modification to May 19, 2014, Administrative Order*; and Section X of the *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 7,* approved on October 17, 2016.

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

- NMED monthly written submission October 19, 2016.pdf

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NMED / LANL Technical Summary

September 22, 2016 – October 19, 2016

Participants:

- New Mexico Environment Department: Siona Briley.
- LANL – Los Alamos National Security: Mark Haagenstad, Luciana Vigil Holterman and Cathy Juarez.

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers (8 SWB overpacks, 48 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.
    - September 22, 2016 – October 18, 2016 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 October 18, 2016, LANL has completed HSG sampling for the month on 52 containers.
        - September 22, 2016 – October 18, 2016 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 September and October 2016.
  - Graphical depictions of HSG data are attached for the two containers required to be sampled daily and the five other containers that are currently sampled twice weekly as additional measures.
    - 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.
    - Installation of pressure relief devices with supplemental filtration to containers with pipe overpack components is still under review with DOE.

Other:

Next Call: Wednesday, November 16, 2016

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
09/21/16	310	999	20957	4163																
09/22/16	269	994	20180	3959	294	1089	21140	2762	271	931	17879	984	378	1132	21141	3405	788	1882	38619	4878
09/23/16	310	969	21833	4377																
09/24/16	287	989	20369	4069																
09/25/16	298	945	19574	3920																
09/26/16	255	898	18701	3753	309	1162	21933	2923	259	870	17429	944	359	1104	19352	3157	963	2107	42657	5660
09/27/16	300	918	19232	3894																
09/28/16	231	852	17816	3586																
09/29/16	300	970	18948	3790	237	865	17265	2248	216	795	14378	812	348	1087	19311	3189	1011	2260	43146	5636
09/30/16	263	891	18752	3759																
10/01/16	293	902	18660	3749																
10/02/16	297	855	17889	3599																
10/03/16	298	911	18718	3723	343	988	20106	2658	273	925	17570	989	244	733	13108	2128	1010	2292	44237	5670
10/04/16	287	941	17711	3519																
10/05/16	287	917	17756	3631																
10/06/16	275	893	16821	3401	282	1002	19947	2593	254	900	15239	828	361	1052	18018	2909	960	2169	40709	5264
10/07/16	295	849	16842	3441																
10/08/16	276	778	15569	3188																
10/09/16	317	828	16905	3438																
10/10/16	293	831	16377	3338	311	1036	21262	2779	284	909	16577	865	385	1078	17863	2889	1004	2206	40503	5185
10/11/16	279	850	15970	3216																
10/12/16	291	753	14193	2823																
10/13/16	255	768	15513	3063	269	934	18461	2402	282	905	16727	936	353	1025	17028	2724	719	1907	36641	4550
10/14/16	308	812	15650	3138																
10/15/16	300	801	16086	3203																
10/16/16	302	797	15890	3159																
10/17/16	302	810	16075	3151	269	978	18375	2346	246	837	15908	845	265	842	13977	2222	892	1973	36242	4523
10/18/16	322	886	16851	3351																

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452 - 69076				SB50522 - 69490				68430				68507				70503 - 68540			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_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
09/21/16					882	1638	22288	4555												
09/22/16	433	1312	20214	3046	872	1653	22448	4636												
09/23/16					910	1729	23815	4886												
09/24/16					888	1701	22976	4694												
09/25/16					857	1642	21798	4524												
09/26/16	428	1198	19067	2871	816	1556	20105	4157												
09/27/16					873	1678	22125	4592												
09/28/16					789	1562	20093	4218												
09/29/16	383	1214	18501	2757	884	1676	22002	4538												
09/30/16					895	1624	22396	4599												
10/01/16					922	1607	22806	4700												
10/02/16					881	1591	21934	4540												
10/03/16	330	1063	15058	2225	864	1635	21158	4386												
10/04/16					839	1558	20289	4198									12	0	817	0
10/05/16					880	1617	21400	4431												
10/06/16	422	1210	17816	2661	864	1613	20699	4255												
10/07/16					848	1603	20015	4113												
10/08/16					862	1530	20190	4165												
10/09/16					892	1587	20561	4333												
10/10/16	422	1225	17314	2587	833	1455	19312	3958												
10/11/16					893	1604	20395	4205												
10/12/16					869	1577	19045	3969	166	342	3629	814	97	0	1147	62				
10/13/16	423	1167	17110	2534	793	1416	18030	3716												
10/14/16					826	1451	18468	3823												
10/15/16					867	1493	19578	4078												
10/16/16					785	1458	18491	3852												
10/17/16	395	1044	16109	2380	854	1575	19840	4136												
10/18/16					882	1547	20114	4166												

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**
09/21/16					24	50	1236	120												
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16																				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16	54	114	2705	258																
10/05/16																				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16									46	135	2262	325								
10/12/16													17	0	1104	124	14	0	570	0
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16					30	47	1505	198												

Remediated Nitrate Salt Container Headspace Gas Analysis

	69013				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
09/21/16																				
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16									99	293	1390	486								
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16	30	0	866	7													336	1002	14760	1416
10/05/16													728	1437	21522	3084				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16					69	0	1163	129												
10/12/16																				
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69519				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**
09/21/16	279	497	7159	2423																
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16									16	0	2167	271	255	945	11964	3658				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16					89	215	2266	820												
10/05/16																				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16																	133	399	1702	855
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16	307	398	7126	2373																

Remediated Nitrate Salt Container Headspace Gas Analysis

	69598				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
09/21/16	30	0	882	62																
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16					279	451	6761	2358												
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16									152	412	5399	636	428	987	14118	2249				
10/05/16																	509	1306	22556	2020
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16																				
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16	14	0	508	0																

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**
09/21/16					111	87	4089	557												
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16																				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16																				
10/05/16													248	721	12951	1558				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16	428	928	14616	1754					221	577	7849	526					205	709	7009	1881
10/12/16																				
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16					119	69	4012	548												

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**
09/21/16																				
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16																				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16									439	1102	11375	3748								
10/05/16													74	282	4363	483				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16	200	455	5087	794	102	259	4707	298									235	594	8511	1735
10/12/16	545	1095	13264	2157	180	416	7965	513												
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16																				

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**
09/21/16	238	869	13363	2049	331	1002	13690	4070	408	1435	24433	5533					111	336	3958	439
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16																				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16																				
10/05/16																				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16													36	0	661	536				
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16	226	825	14303	2124	381	1035	12886	3835	435	1145	22349	4891					78	309	3368	354

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**
09/21/16																				
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16									208	873	13645	1702								
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16																				
10/05/16	45	177	3492	117	708	1764	22051	5214					276	755	13428	1759				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16																	283	694	9120	1699
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16																				

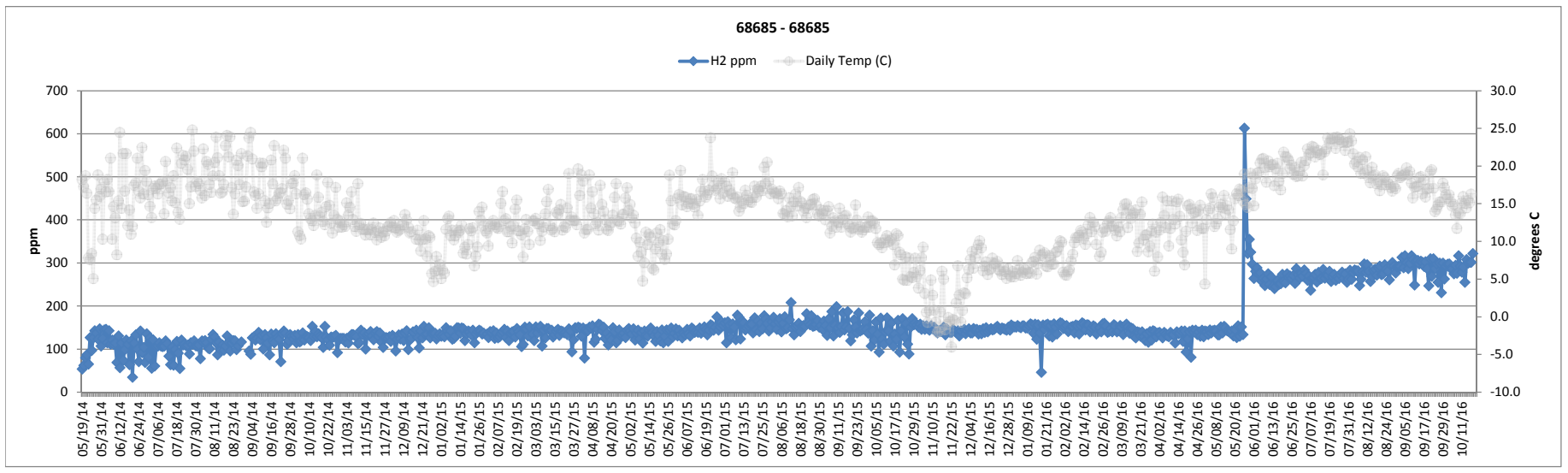
Remediated Nitrate Salt Container Headspace Gas Analysis

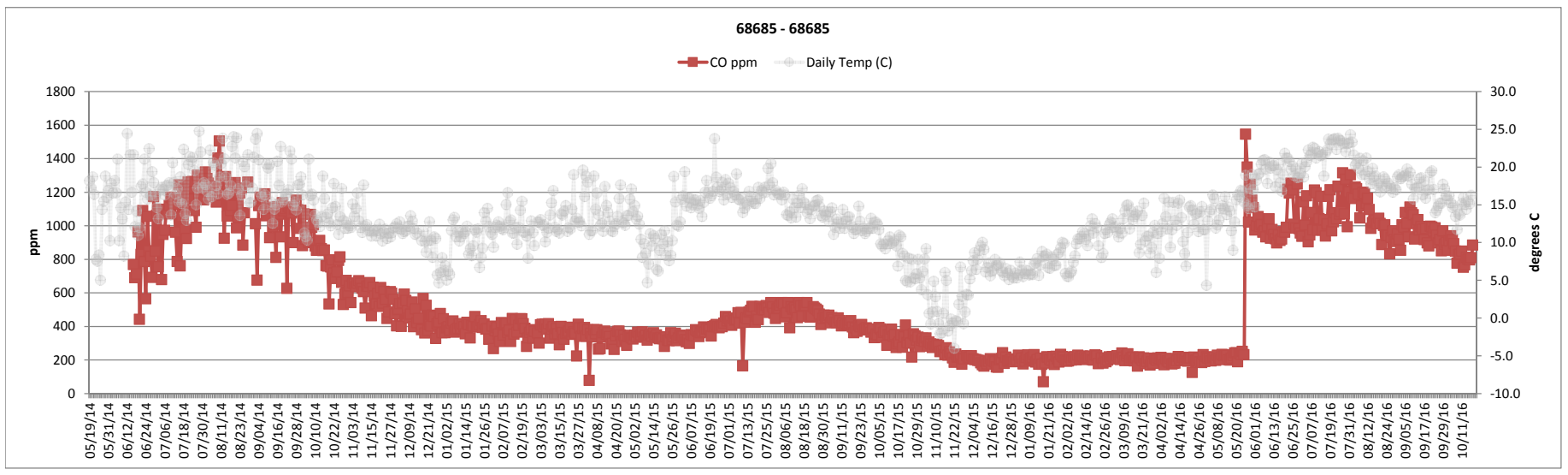
	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
09/21/16																				
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16					808	1142	20329	3118	183	492	6756	814	227	618	7927	961				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16																				
10/04/16																				
10/05/16	662	1490	18269	3452																
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16																	52	0	2525	68
10/13/16																				
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16																				

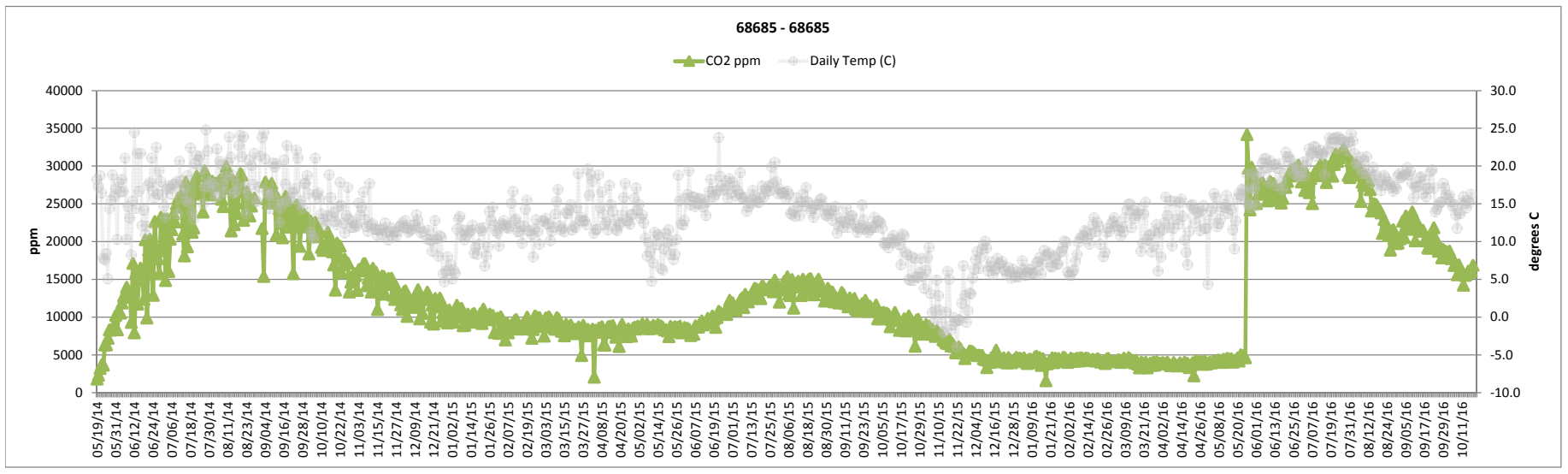
Remediated Nitrate Salt Container Headspace Gas Analysis

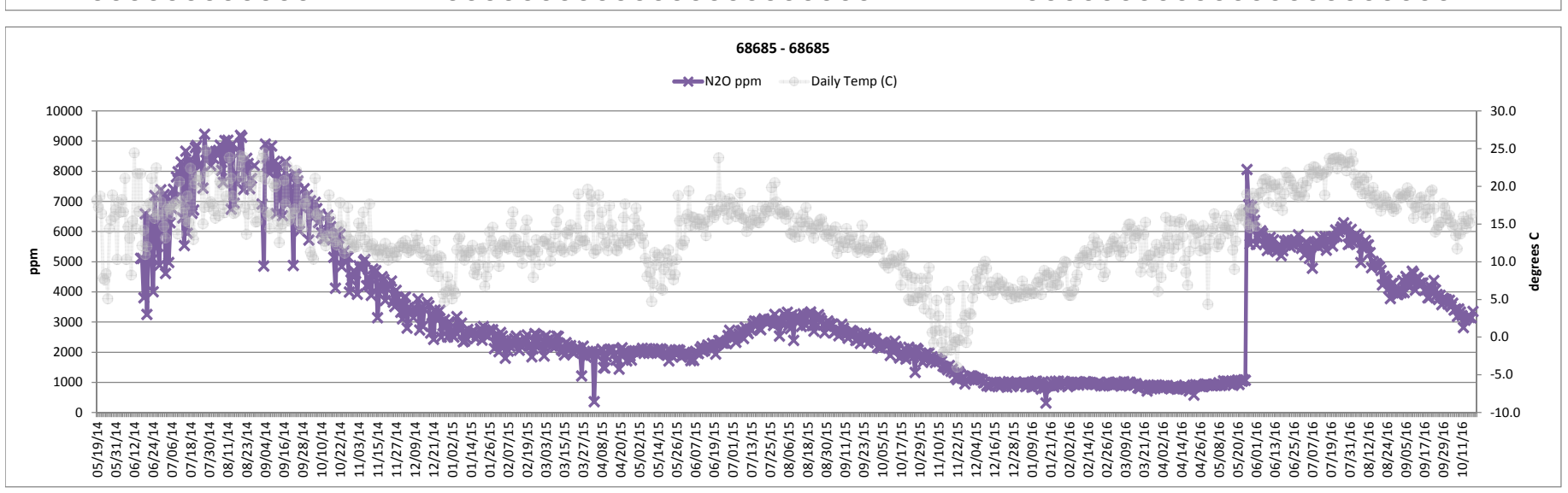
	SB50559 - 92472				87823				87825				87826				87827			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
09/21/16																				
09/22/16																				
09/23/16																				
09/24/16																				
09/25/16																				
09/26/16																				
09/27/16																				
09/28/16																				
09/29/16																				
09/30/16																				
10/01/16																				
10/02/16																				
10/03/16					159	244	3837	759	166	170	5565	1148	179	427	7998	1420	49	106	3384	462
10/04/16																				
10/05/16																				
10/06/16																				
10/07/16																				
10/08/16																				
10/09/16																				
10/10/16																				
10/11/16																				
10/12/16																				
10/13/16	71	277	3289	197																
10/14/16																				
10/15/16																				
10/16/16																				
10/17/16																				
10/18/16																				

Remediated Nitrate Salt Container Headspace Gas and Temperature

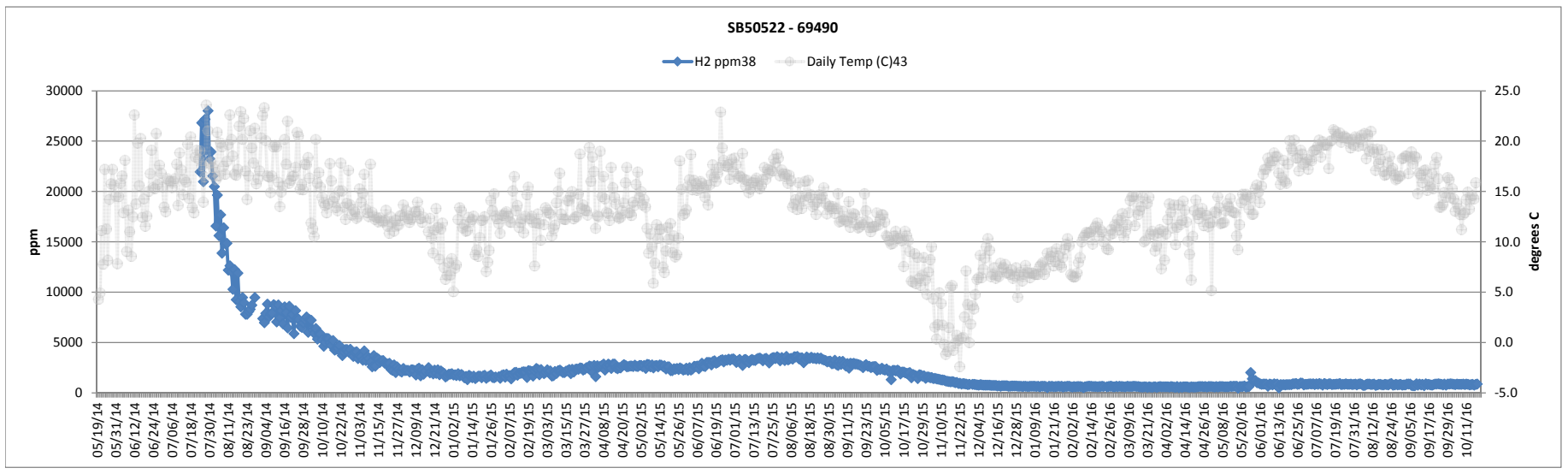


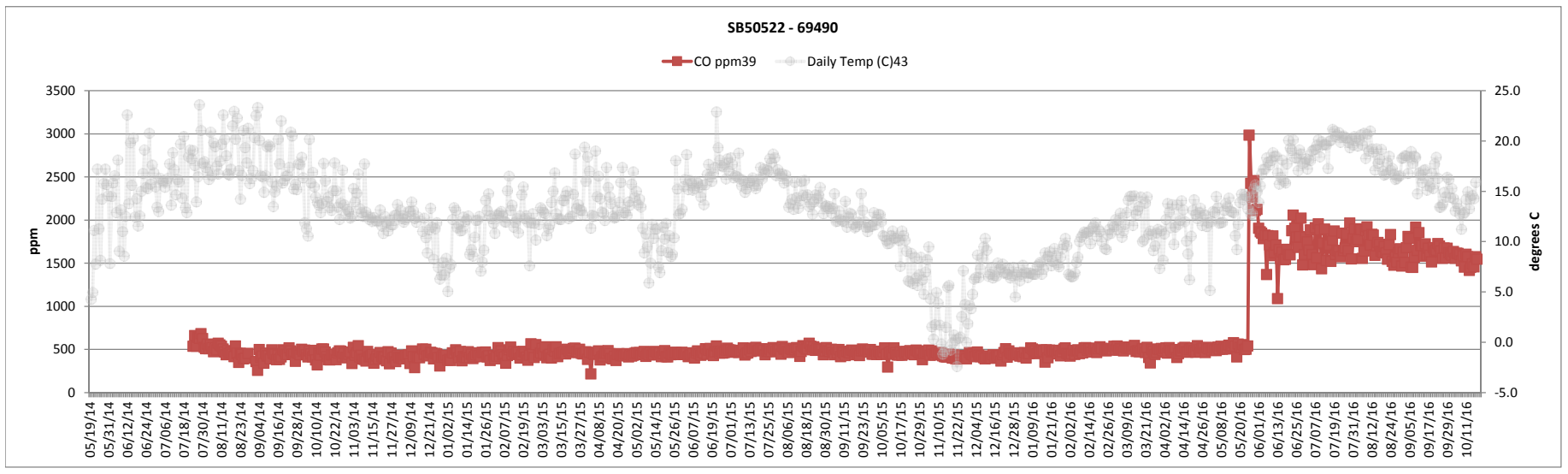


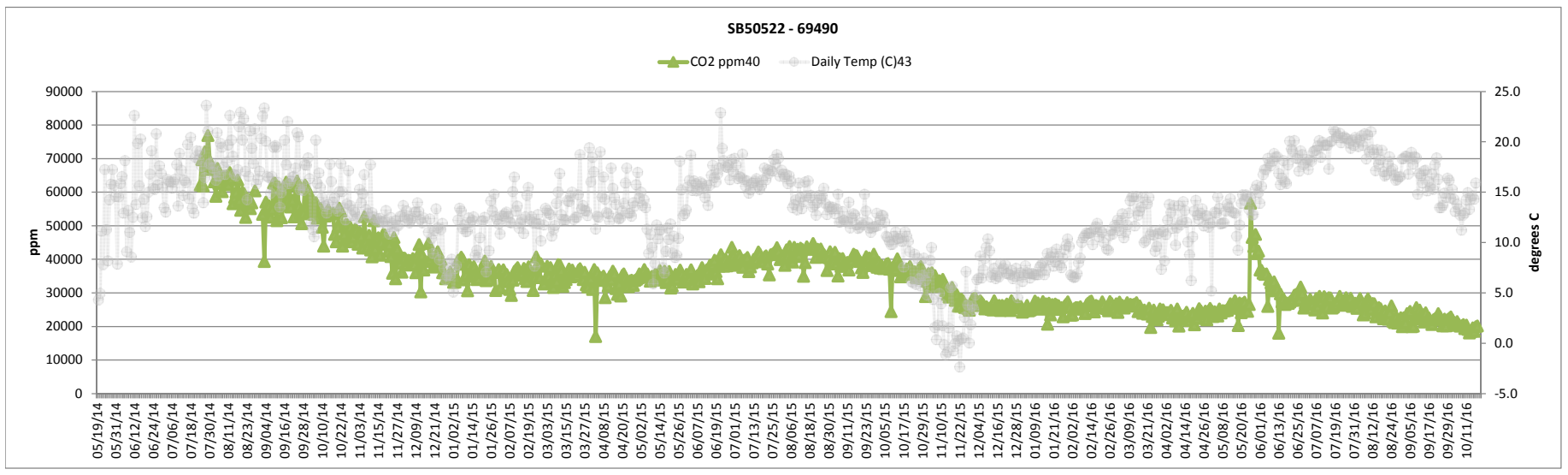


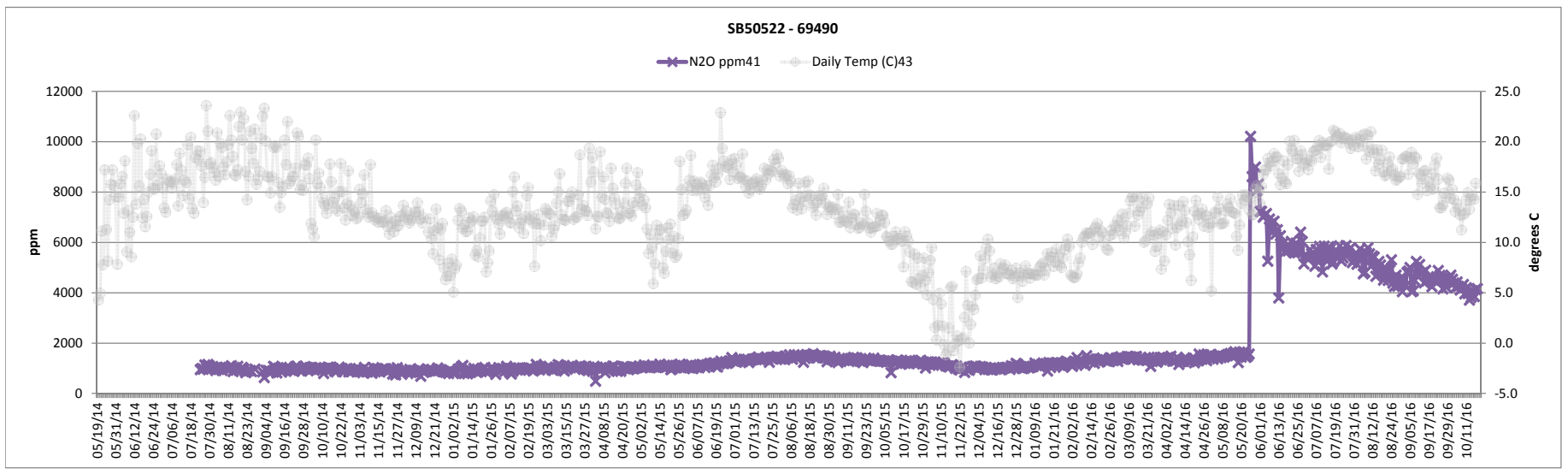


Remediated Nitrate Salt Container Headspace Gas and Temperature

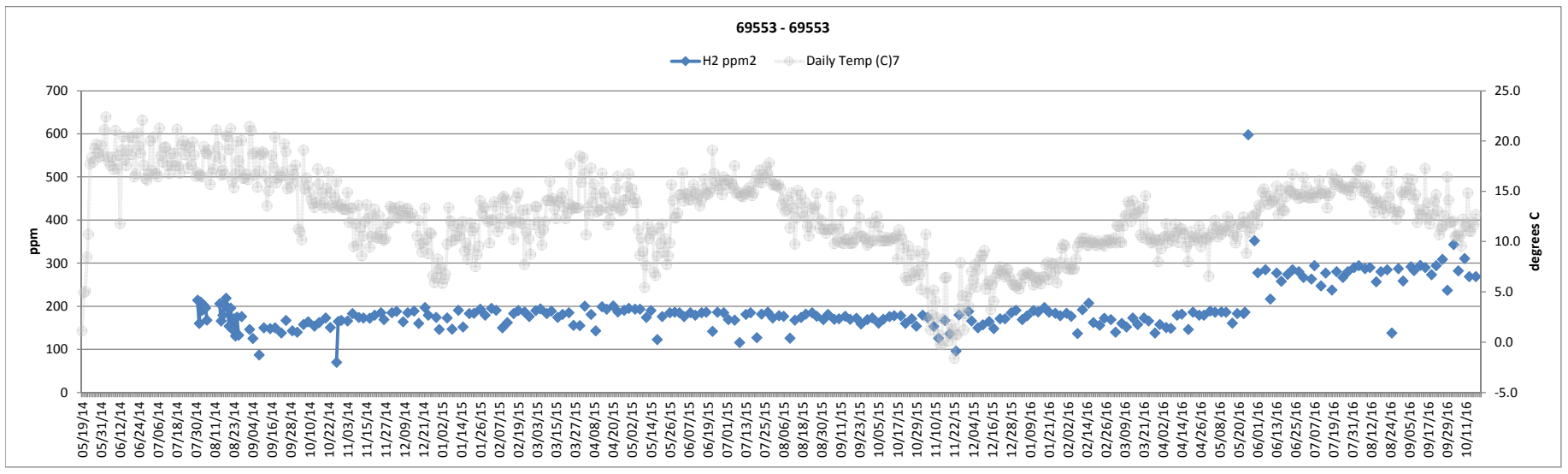


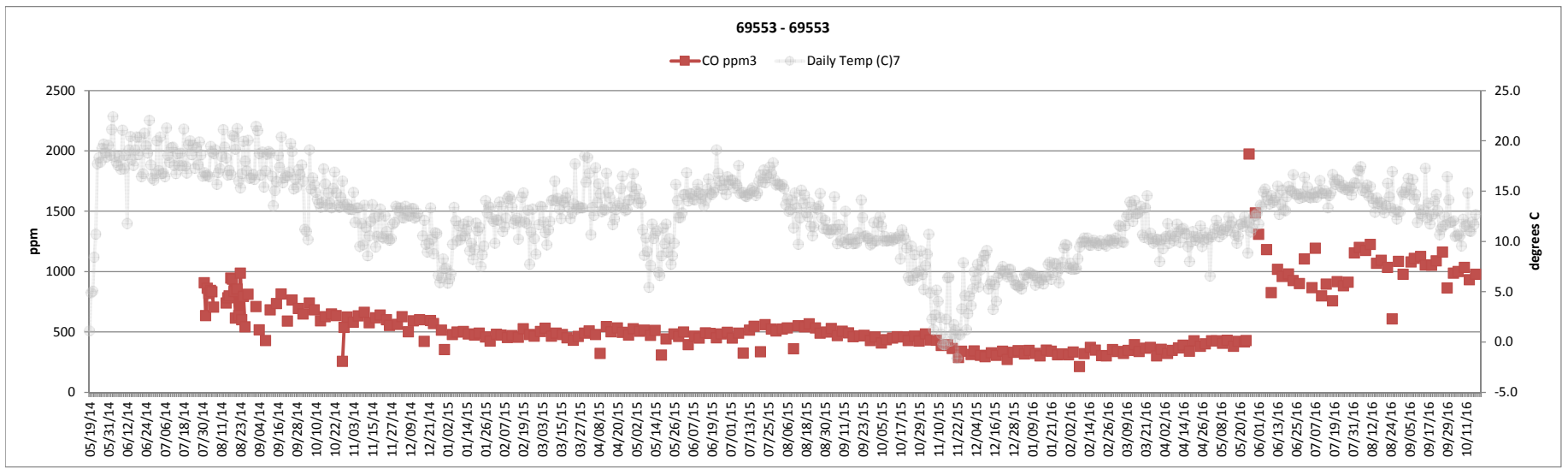


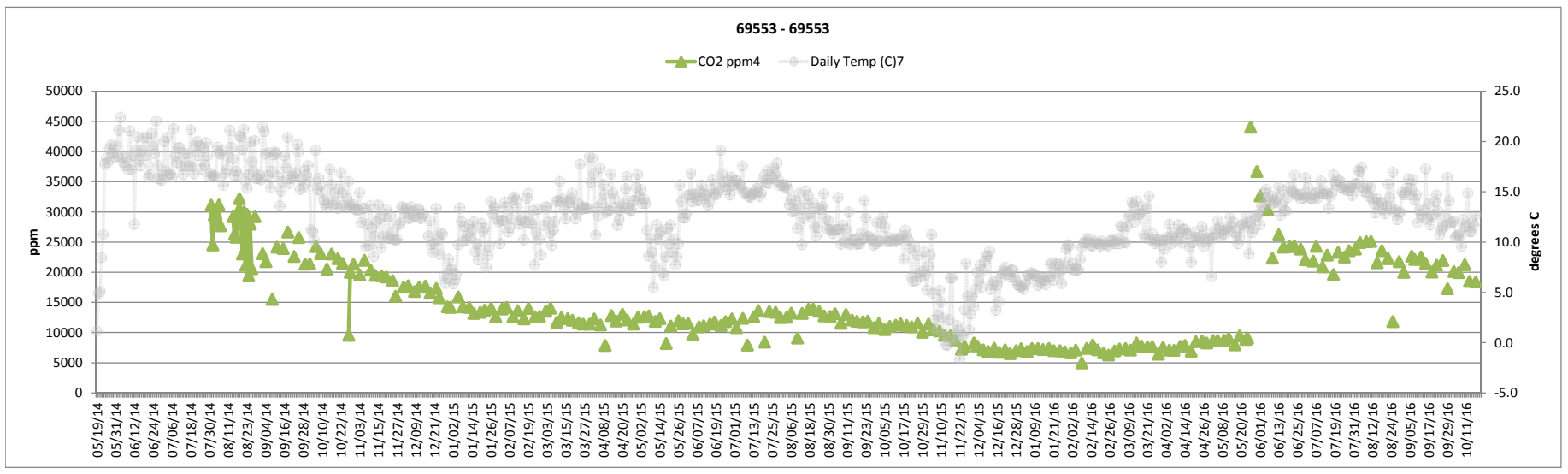


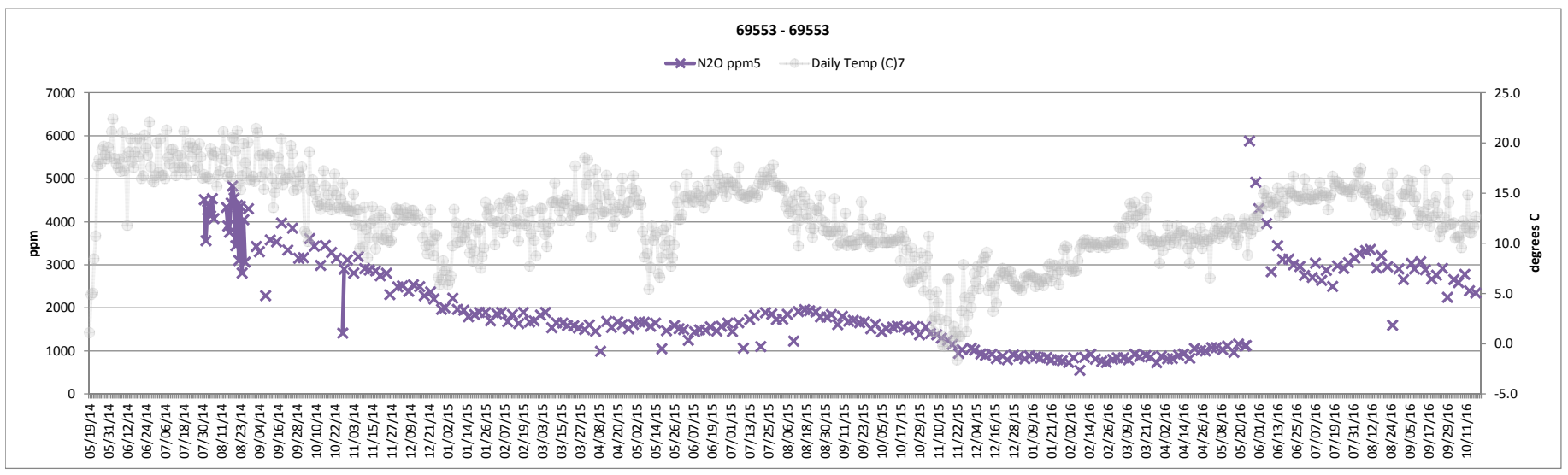


Remediated Nitrate Salt Container Headspace Gas and Temperature

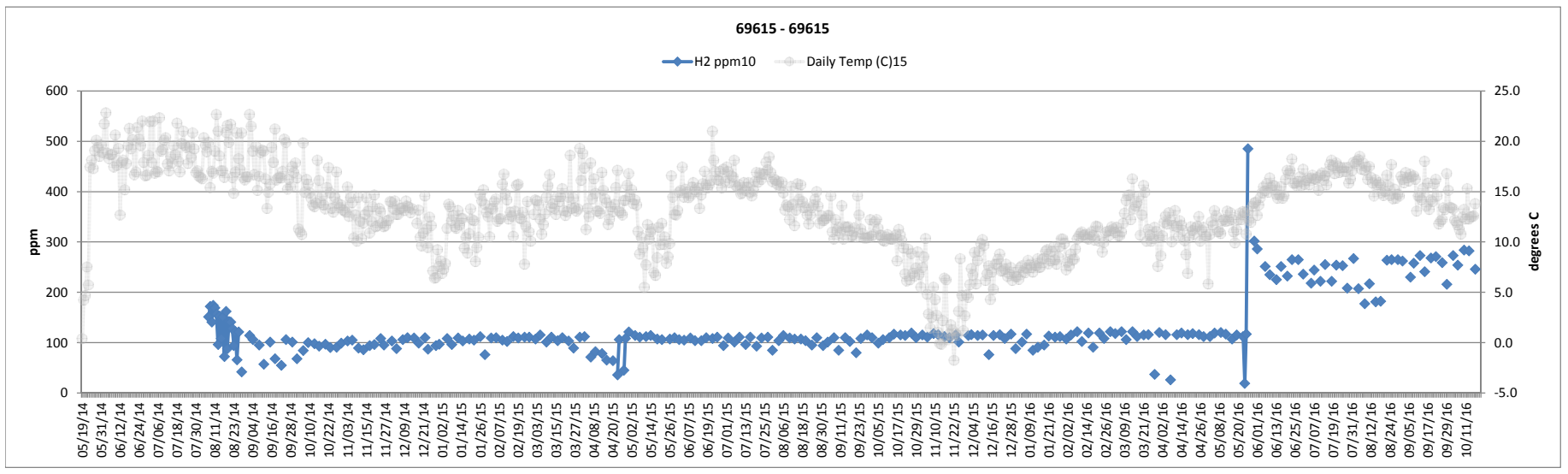


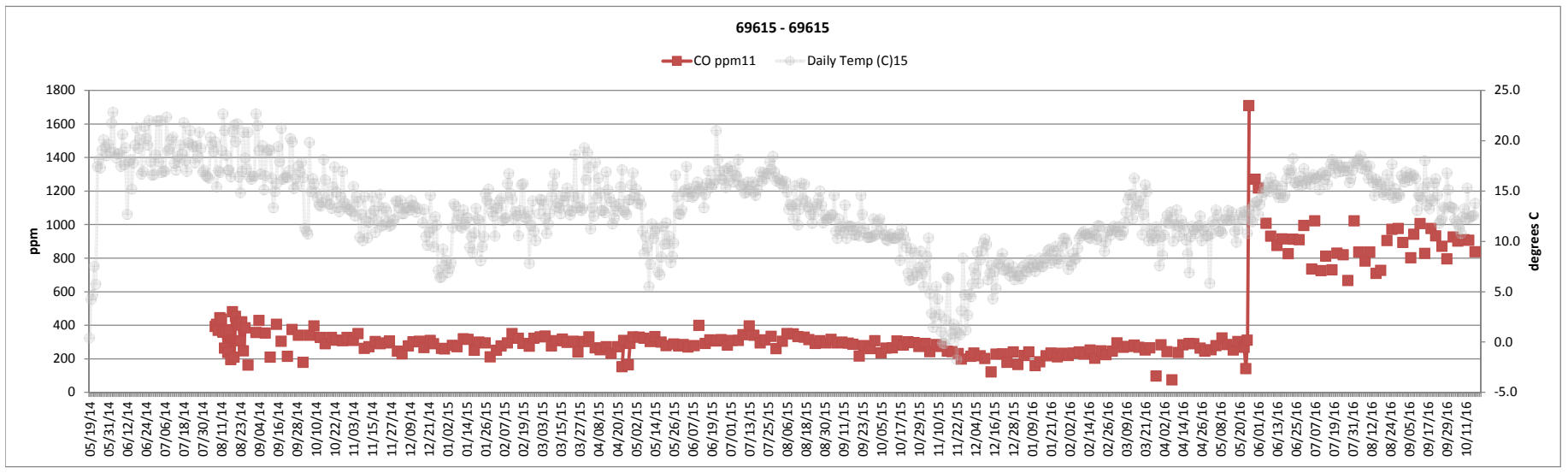


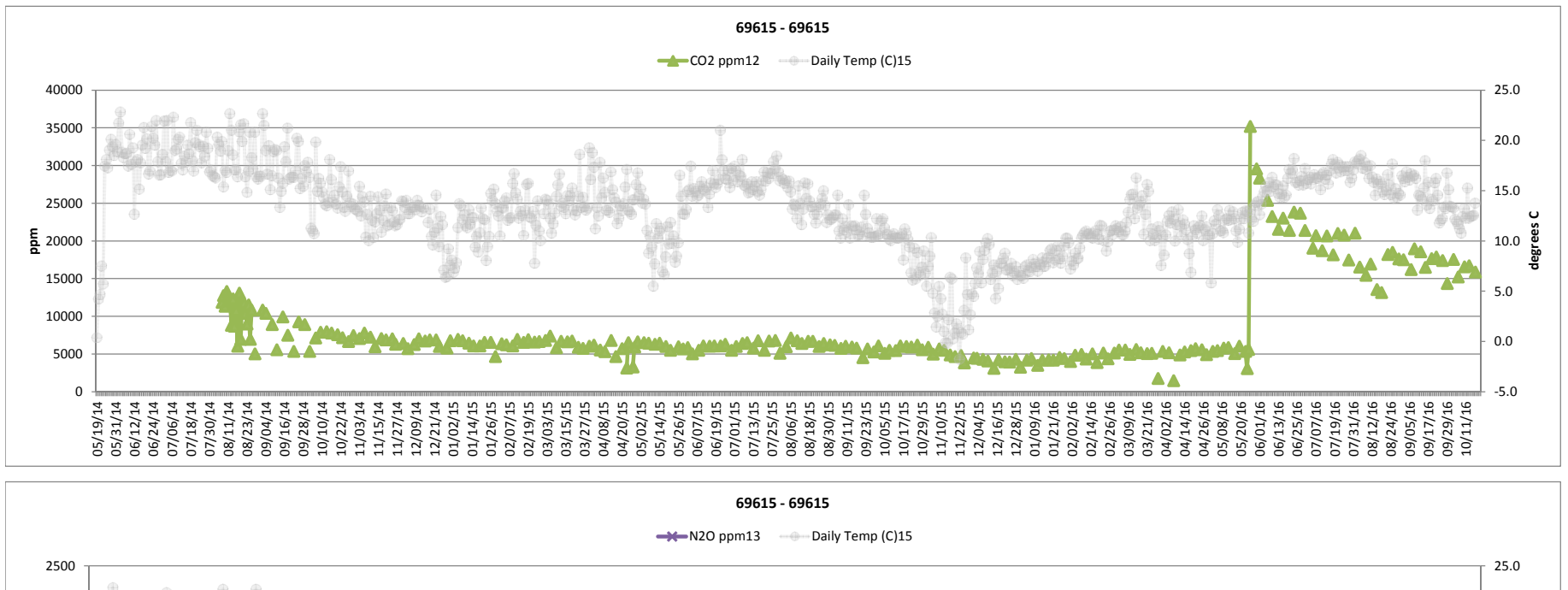


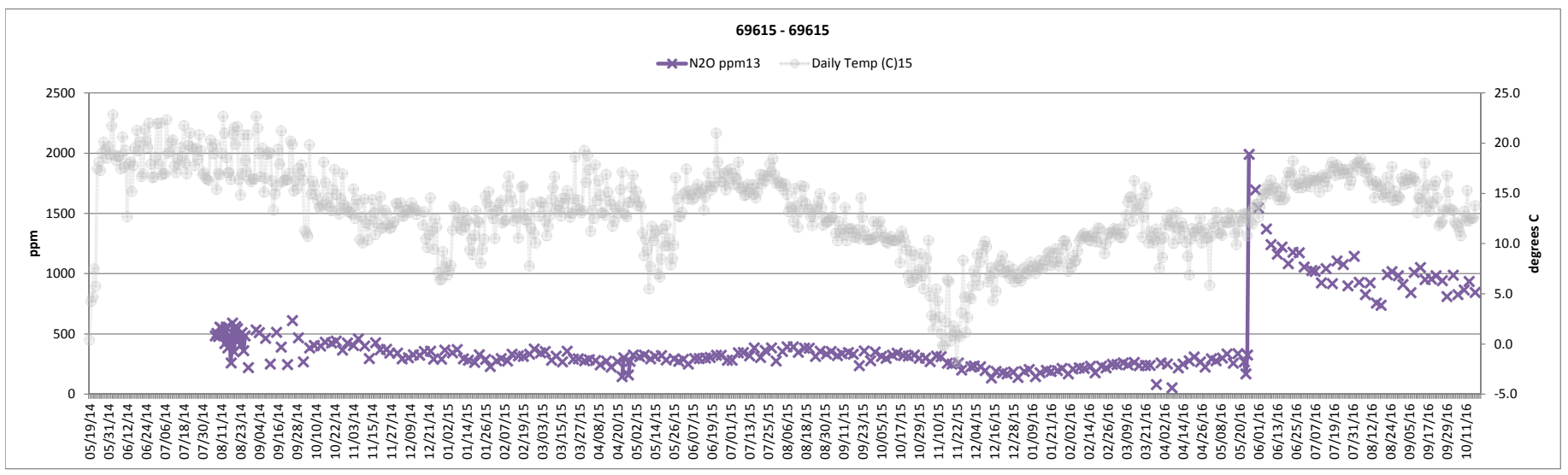


Remediated Nitrate Salt Container Headspace Gas and Temperature

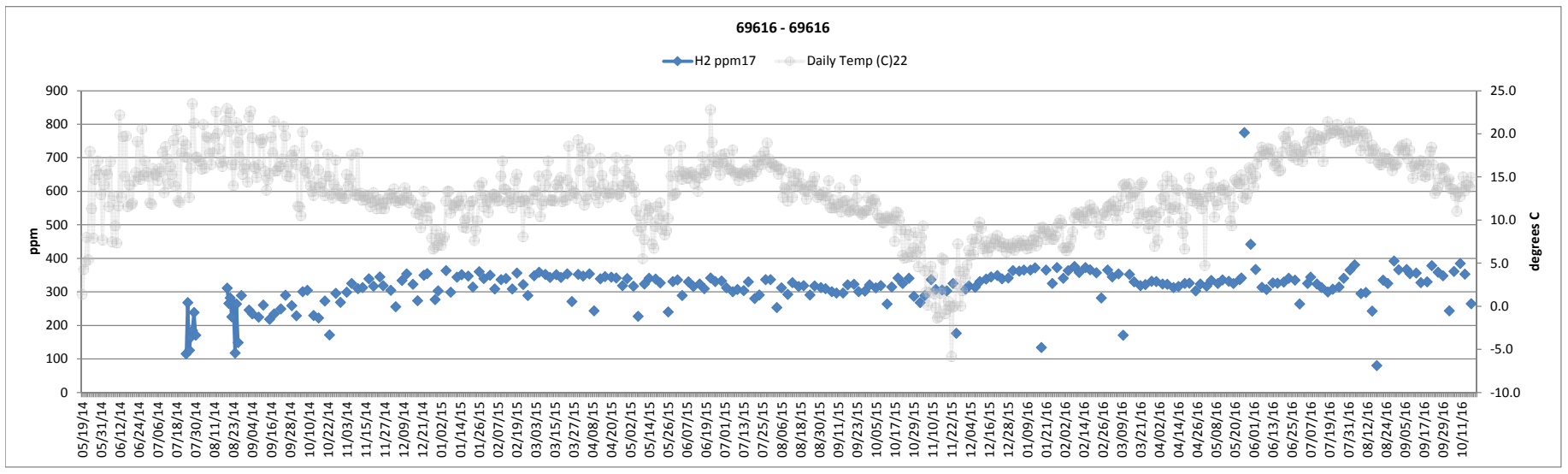


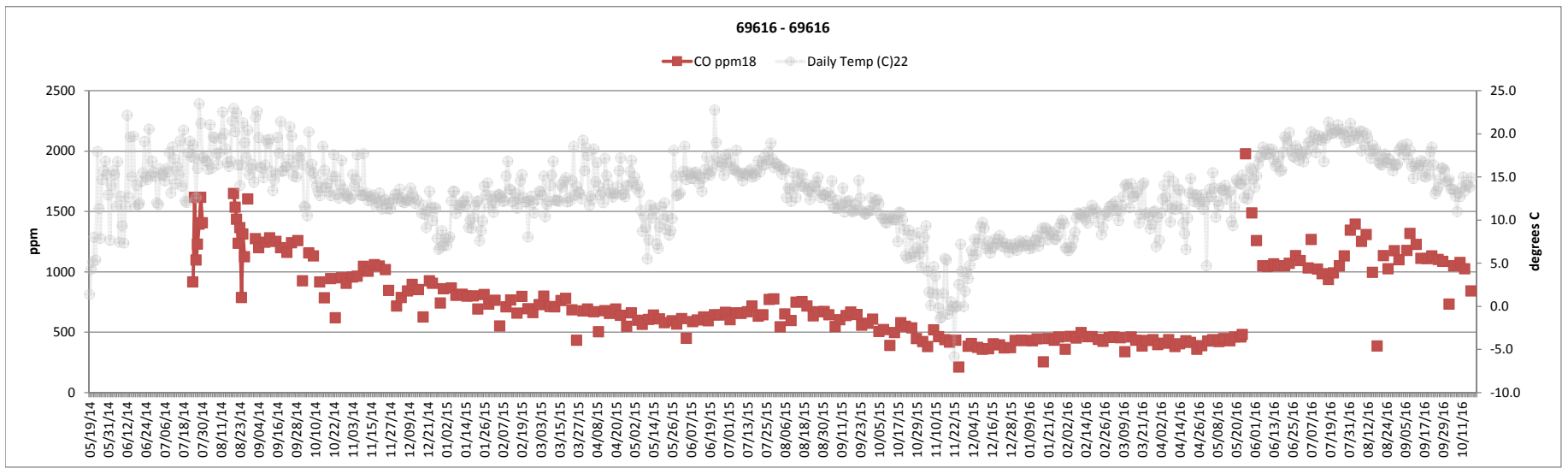


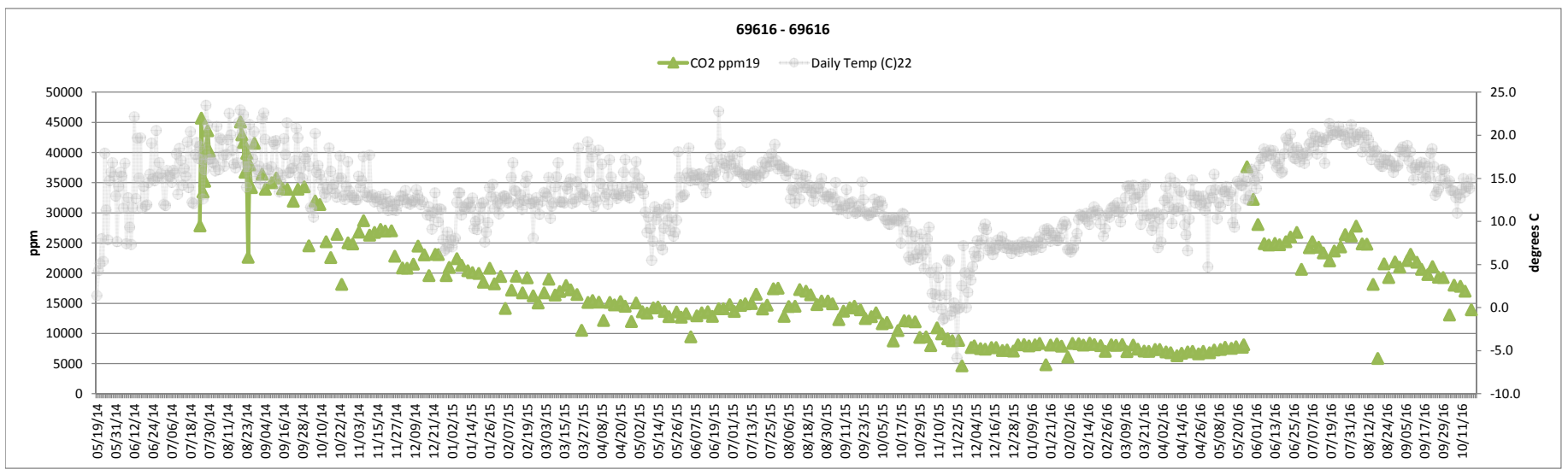


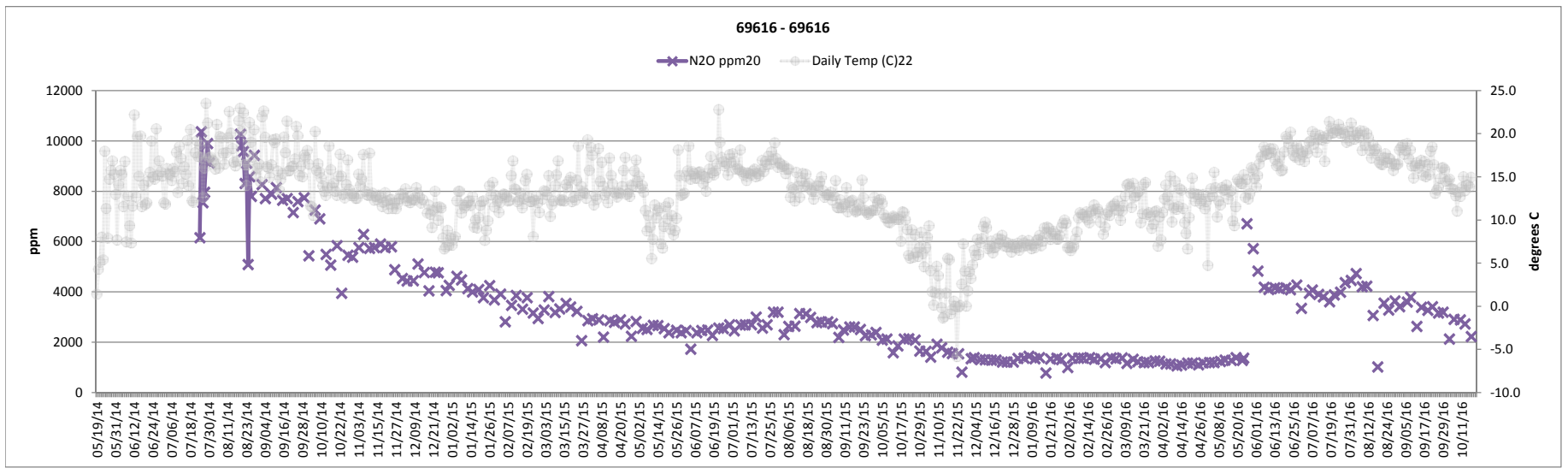


Remediated Nitrate Salt Container Headspace Gas and Temperature

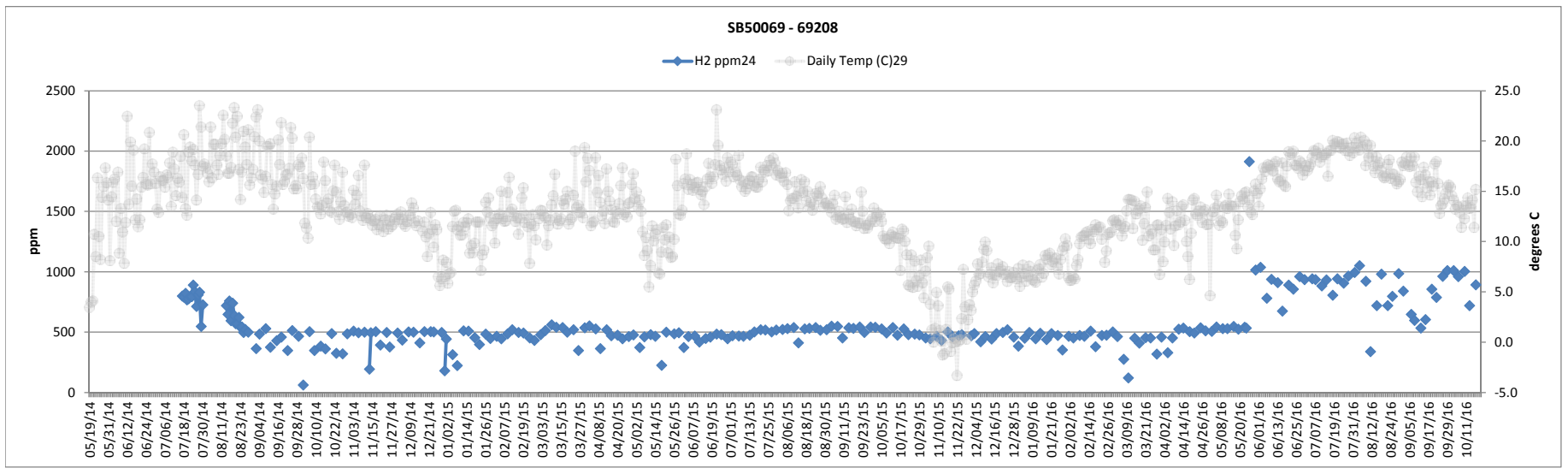


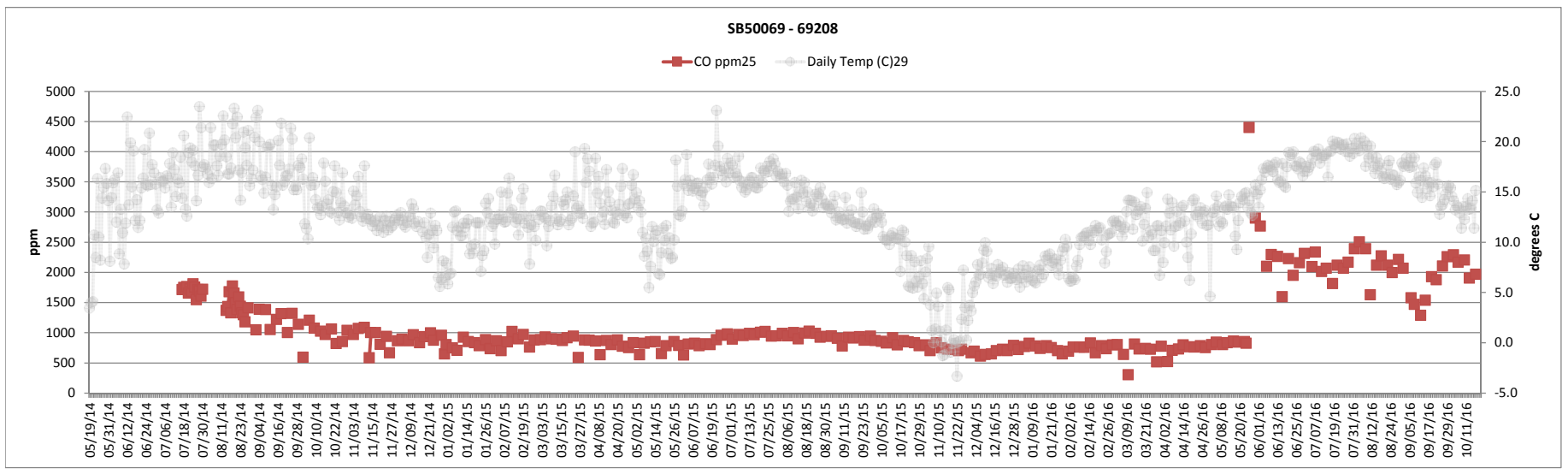


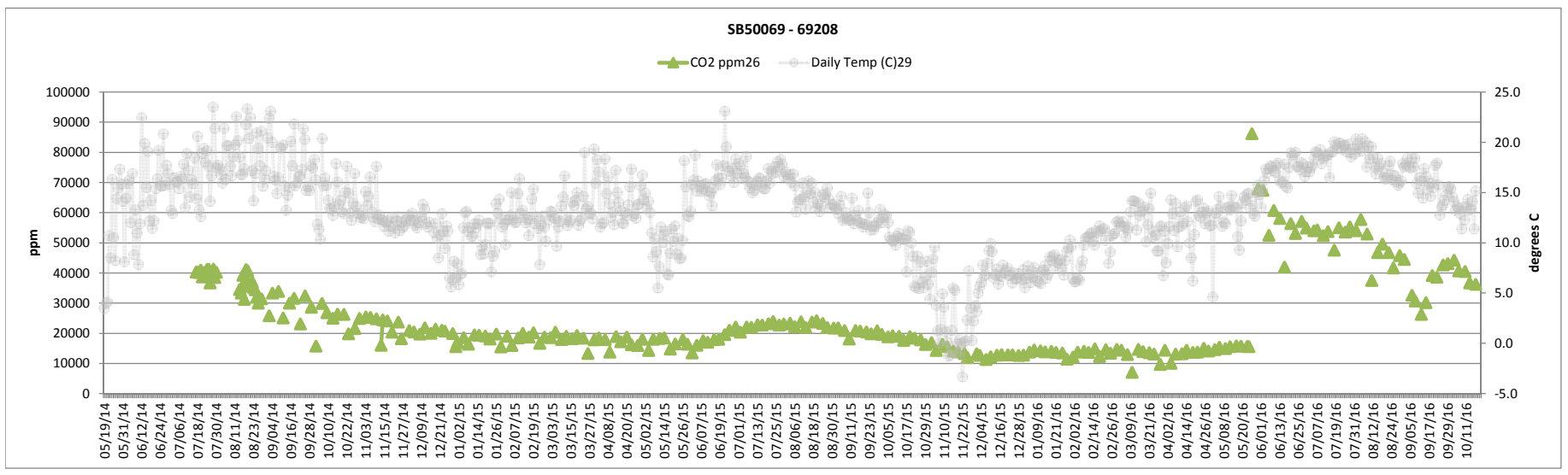


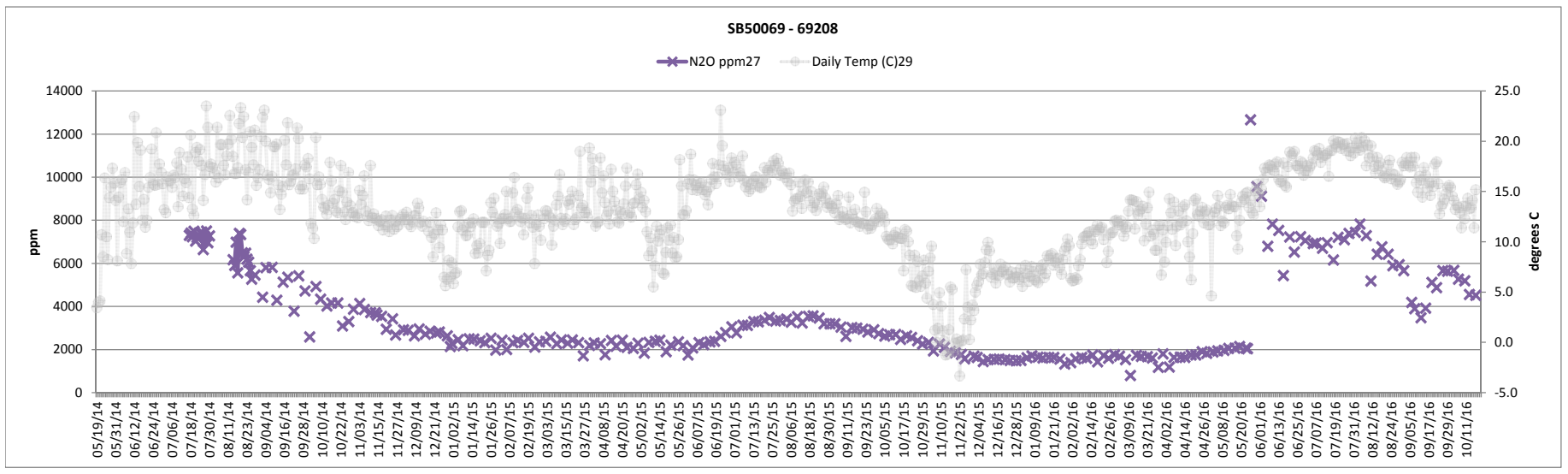


Remediated Nitrate Salt Container Headspace Gas and Temperature

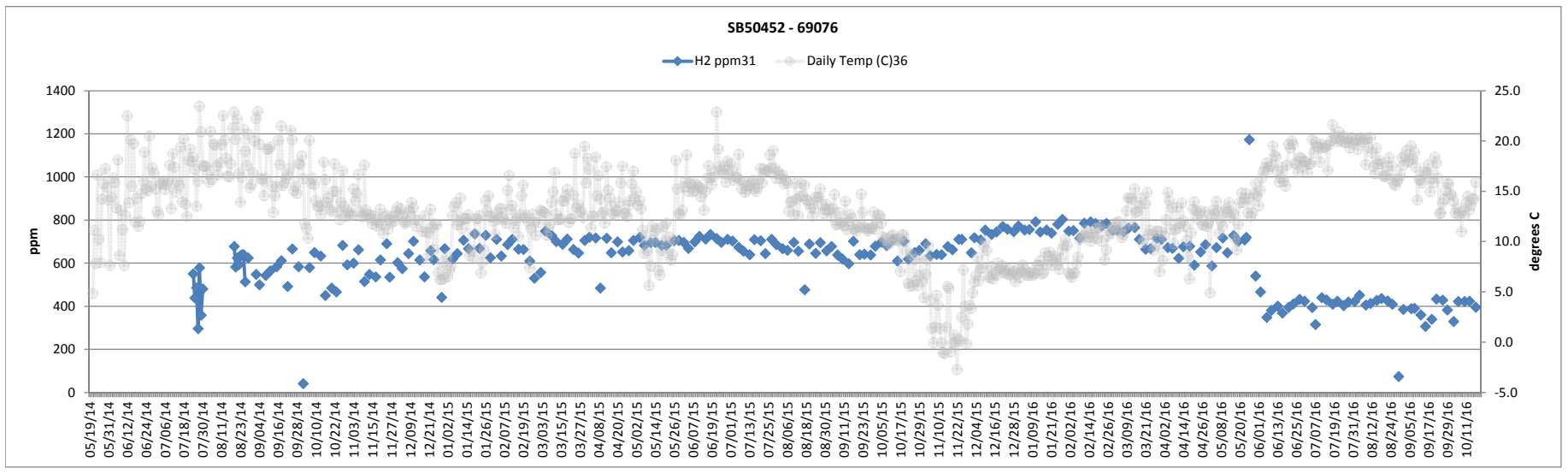


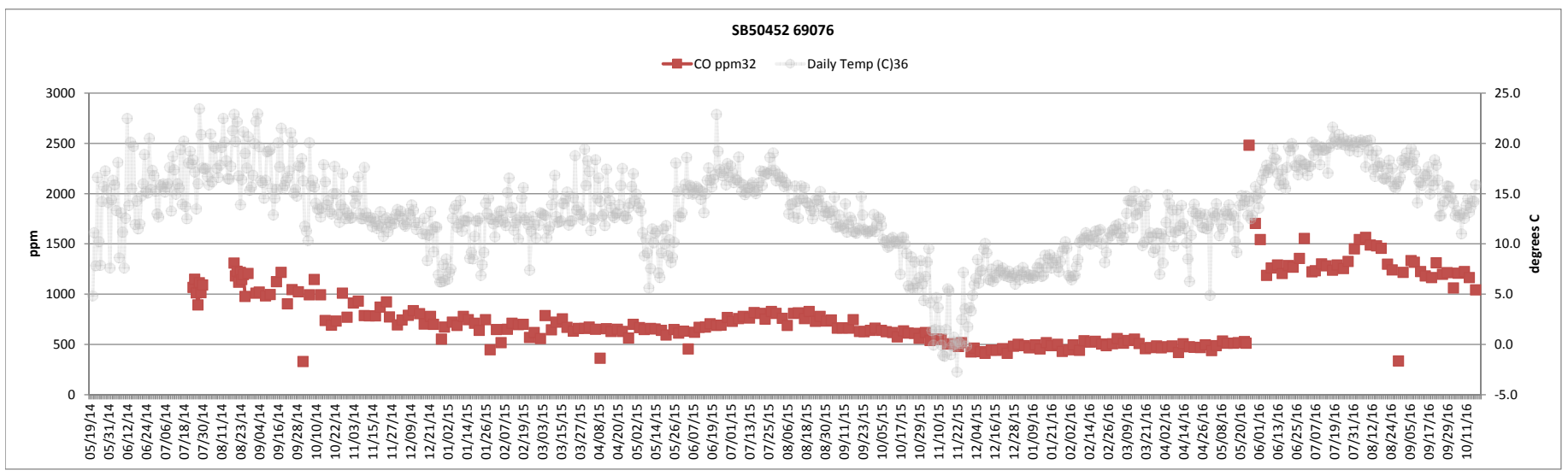


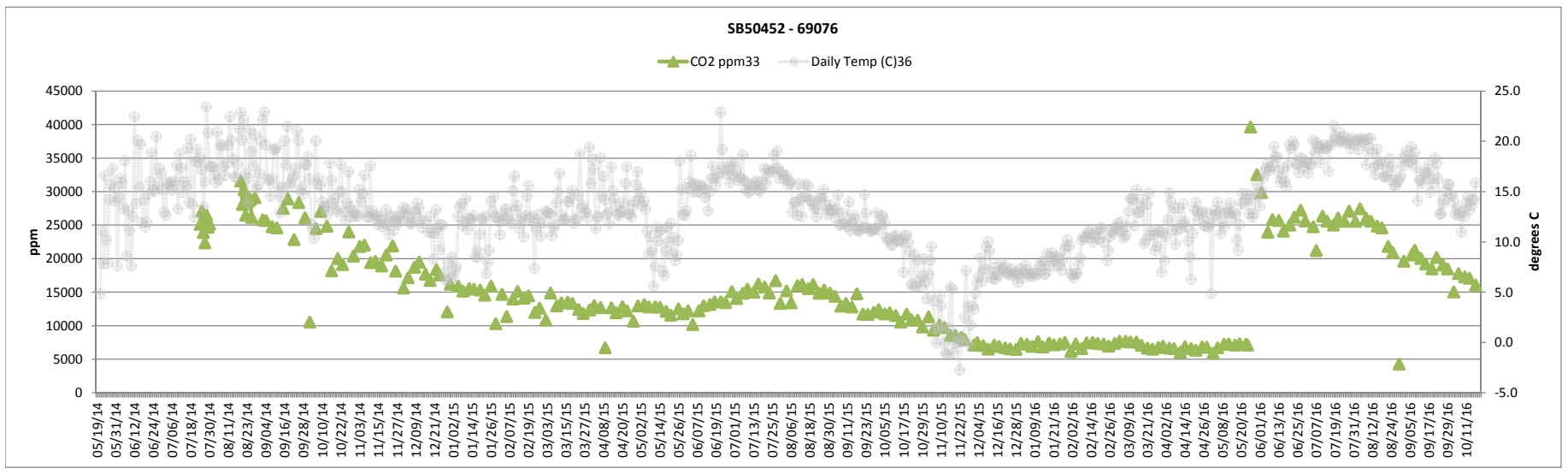


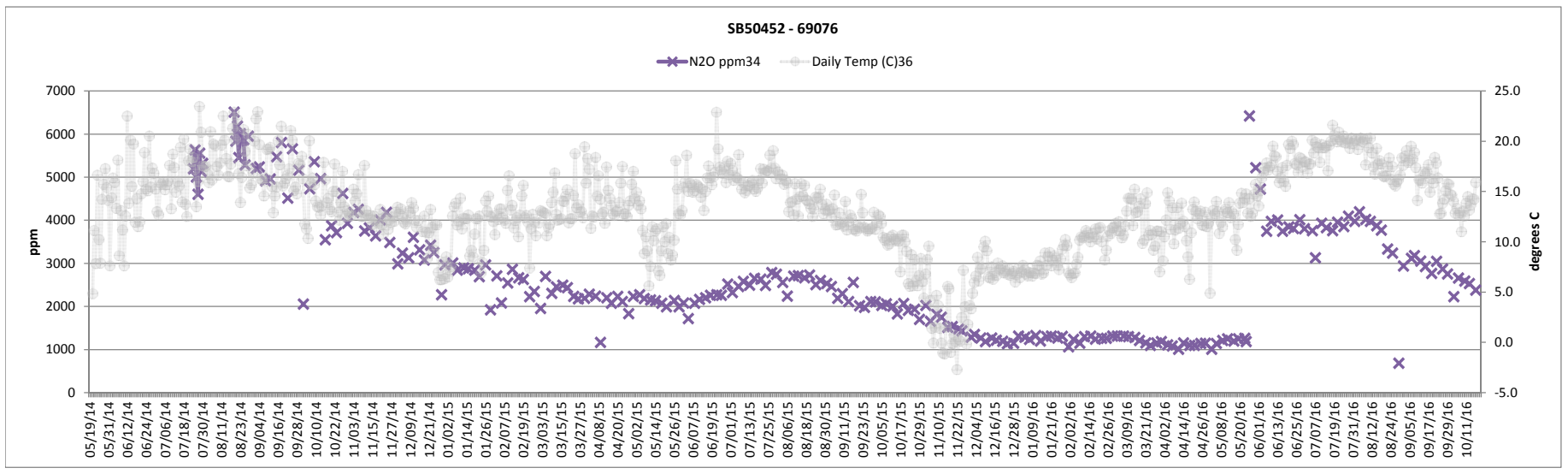


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 3

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

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

	Monday 6.[4] Date & Start Time:	Tuesday 6.[4] Date & Start Time:	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
	9-19-16/1322	9-20-16/1326	9-21-16/1333	9-22-16/1320	9-23-16/1312	9-24-16/1312	9-25-16/1312
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number: 101912	Brand: FLUKE Model: 561 Cal. Due Date: 10-21-16 File Number: 101912	Brand: FLUKE Model: 561 Cal. Due Date: 10-21-16 File Number: 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number: 101912	Brand: FLUKE Model: 561 Cal. Due Date: 10-21-16 File Number: 101912
Ambient Temperature (6.[5])	60.8 °F	62.6 °F	65.8 °F	66.0 °F	62.1 °F	56.0 °F	57.4 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	62.5	62.7	66.7	67.1	62.7	57.1	57.7
LA00000070503 68540	63.1	61.8	64.3	65.2	62.2	56.0	57.1
LA00000070503 68553	62.2	61.8	65.0	65.5	62.1	55.5	56.7
69445	62.3	59.4	64.9	65.4	61.8	56.1	56.8
69618	62.7	60.8	64.5	64.9	61.8	56.0	56.7
69013	64.0	61.5	65.1	66.2	62.4	55.9	57.5
LASB50522 69076	62.2	59.5	63.9	65.1	61.3	56.2	56.2
LASB50452 69490	61.3	60.5	65.1	64.1	61.4	55.0	55.1
LASB50431 69280	61.8	59.8	64.3	64.2	59.5	54.9	55.2
LASB50069 69208	60.7	59.9	63.9	64.3	60.4	55.0	56.4
LASB50073 69079	61.8	59.7	63.9	64.8	61.1	56.3	56.5
69636	60.7	58.5	63.7	64.7	59.6	55.6	56.1

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INITIAL FH
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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	61.5	59.4	64.3	65.2	61.5	55.5	56.2
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	62.2	60.1	64.0	65.1	61.4	56.1	57.0
69520	61.8	59.6	63.9	64.1	61.4	55.9	56.7
69641	61.3	59.6	64.3	64.5	60.9	55.1	55.9
69298	60.0	59.2	63.3	63.3	59.9	54.5	55.0
LASB02203 92669	58.9	57.6	62.9	62.0	59.2	54.9	54.4
End Time (6.[14])	1328	1330	1337	1324	1316	1316	1316
6.[14]	WO: FA WO: LM	WO: EP WO: MZ	WO: VDM WO: MZ	WO: MZ WO: FA	WO: AL WO: [illegible]	WO: [illegible] WO: [illegible]	WO: [illegible] WO: [illegible]

Comments: N/C

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-19-16
Leon Montoya		V19526	LM	9-19-16
Edward Pacheco	Edward Pacheco	160497	EP	9-20-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	19-20-16
Valerie Martinez	Valerie Martinez	239758	VM	9/21/16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	9-21-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	9-22-16
Waste Operator (print)	Signature	Z#	Initials	Date

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-22-16
Juan Garcia	Juan Garcia	169840	JG	9-23-16
Leon Montoya		V19526	LM	9-23-16
Juan Garcia	Juan Garcia	169840	JG	9-24-16 9/24-16
Leon Montoya		V19526	LM	9-24-16
Juan Garcia	Juan Garcia	169840	JG	9-25-16
Leon Montoya		V19526	LM	9-25-16
Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time: 9-19-16/1313	Tuesday 6.[4] Date & Start Time: 9-20-16/1319	Wednesday 6.[4] Date & Start Time: 9-21-16/1327	Thursday 6.[4] Date & Start Time: 9-22-16/1325	Friday 6.[4] Date & Start Time: 9-23-16 1306	Saturday 6.[4] Date & Start Time: 9-24-16/1306	Sunday 6.[4] Date & Start Time: 9-25-16/1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 1-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 1-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 1-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 1-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 1-28-17 File Number 104840	Brand: FLUKE Model: 561 Cal. Due Date: 1-28-17 File Number 104840	Brand: FLUKE Model: 561 Cal. Due Date: 1-28-17 File Number 104840
Ambient Temperature (6.[5])	56.1 °F	55.1 °F	58.0 °F	59.3 °F	57.1 °F	532 °F	52.1 °F
(S) Temperature ≤ 75°F SR 4.ESS 5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	55.2	54.2	50.6	57.3	56.1	51.4	51.7
68638	56.1	58.2	56.6	58.1	56.7	52.0	52.9
69615	57.5	57.2	60.4	61.2	58.2	53.2	53.7
69635	57.1	55.9	52.5	60.3	58.0	53.2	53.4
69642	58.1	57.7	61.2	62.5	59.0	54.0	54.8
69630	57.6	55.5	57.9	60.4	57.4	52.4	53.6
69633	56.2	56.9	53.4	60.2	57.5	52.6	54.0
68430	57.8	54.0	59.4	60.8	58.5	52.7	51.3
68631	53.8	52.5	57.3	58.3	55.4	50.6	49.9
69634	53.7	54.3	54.6	55.9	53.2	51.1	51.2
68567	54.4	53.6	57.2	58.4	55.7	51.2	51.6 9-25-16
94227	56.3	54.7	56.4	58.0	55.6	50.5	~~52.9~~ 51.6
LASB50442 68648	56.0	55.7	58.3	60.2	56.3	51.8	52.9
69644	56.5	55.4	57.6	59.5	57.1	52.6	53.4
LASB50443 69183	56.8	55.6	60.3	60.1	57.5	52.7	53.5
69638	56.8	55.8	59.2	60.2	57.2	52.6	53.4

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Container ID #		Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		57.0	56.4	59.0	60.7	57.2	52.6	53.8
68507		57.1	56.8	59.6	61.0	58.0	52.8	53.5
69568		54.5	54.2	57.9	58.7	55.0	50.5	51.6
69553		54.6	54.9	57.2	58.4	55.5	51.2	52.2
69598		57.4	56.2	57.8	59.0	56.6	53.3	50.6
LASB50559	92472	54.2	53.8	56.3	56.8	54.5	50.3	50.0
	92459	52.2	52.1	54.8	54.9	53.2	49.9	53.6
69015		56.6	56.7	59.8	59.2	57.7	52.5	53.7
69639		56.8	56.5	58.9	60.0	57.9	52.6	53.9
69637		56.8	55.8	59.6	61.0	57.6	52.8	53.3
End Time (6.[14])		1321	1325	1332	1328	1311	1311	1311
6.[14]		WO: EA WO: LM	WO: EP WO: MZ	WO: MZ WO: MZ	WO: MZ WO: EA	WO: WO:	WO: WO:	WO: WO:

Comments: N/C

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-19-16
Leon Montoya		V19526	LM	9-19-16
Edward Padres	Edward Padres	160497	EP	19-20-16
MATTHEW ZOCCO		131676	MZ	19-20-16
Valerie Martinez	Valerie Martinez	239158	VM	9/21/16
MATTHEW ZOCCO		131676	MZ	19-21-16
MATTHEW ZOCCO		131676	MZ	19-22-16

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-22-16
Juan Garcia		169840	JG	9-23-16
Leon Montoya		V19526	LM	9-23-16
Juan Garcia		169840	JG	9-24-16
Leon Montoya		V19526	LM	9-24-16
Juan Garcia		169840	JG	9-25-16
Leon Montoya		V19526	LM	9-25-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time: 9-19-16/1305	Tuesday 6.[4] Date & Start Time: 9/20/16 -1313	Wednesday 6.[4] Date & Start Time: 9/21/16/1320	Thursday 6.[4] Date & Start Time: 9-22-16/1329	Friday 6.[4] Date & Start Time: 9-23-16/1300	Saturday 6.[4] Date & Start Time: 9-24-16/1300	Sunday 6.[4] Date & Start Time: ~~9-25-16~~ 9-25-16/1300
TA-54-0375 Cell 3							9-25-16
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 6-20-17 File Number: 101975
Ambient Temperature (6.[5])	60.8 °F	60.1 °F	62.6 °F	64.2 °F	61.1 °F	54.7 °F	55.6 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	59.8	57.3	62.0	63.3	59.5	53.8	55.3
69645	57.2	56.2	59.5	61.2	57.3	53.0	53.4
94068	58.7	56.7	60.0	62.4	57.8	52.7	52.5
93605	60.2	58.0	61.6	62.9	59.3	53.8	54.7
69548	59.8	57.6	61.8	64.0	60.0	53.9	55.4
69604	60.0	58.1	62.5	63.6	61.4	54.3	55.2
LASB50529 68665	57.9	56.2	62.2	60.8	59.3	54.1	53.7
LASB50418 69595	58.9	57.5	61.7	62.5	60.9	54.1	54.6
69036	59.8	59.1	62.9	64.1	60.2	54.3	55.5
LASB50451 69361	59.8	59.1	62.5	63.7	60.0	54.1	54.9
69559	60.1	59.0	63.6	64.5	60.2	54.5	54.9
LASB50448 69491	60.2	58.5	61.5	63.3	60.4	54.3	54.8

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	62.8	59.1	104.9	65.4	61.6	54.6	57.4
87826	61.2	60.0	103.4	64.9	61.2	55.5	57.8
87823	62.3	59.9	104.0	65.2	61.6	57.6	57.4
87825	62.7	61.0	105.7	67.2	64.2	54.8	59.8
End Time (6.[14])	1312	1318	13210	1331	1305	1305	1305
6.[14]	WO: FA WO: LM	WO: EP WO: MZ	WO: VDM WO: MZ	WO: MZ WO: FA	WO: WO:	WO: WO:	WO: WO:

Comments:

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174965	FA	9-19-16
Leon Montoya		191526	LM	9-19-16
Edward Pacheco	Edward Pacheco	100497	EP	9-20-16
MATTHEW ZOCCO	Matthew Z	311676	MZ	9-20-16
Valerie Martinez	Valerie Martinez	235958	VM	9/21/16
MATTHEW ZOCCO	Matthew Z	311676	MZ	9-21-16
MATTHEW ZOCCO	Matthew Z	311676	MZ	9-22-16
Fabian Anaya	Fabian Anaya	174965	FA	9-22-16
Juan Garcia	Juan Garcia	169840	JG	9-23-16
Leon Montoya		191526	LM	9-23-16
Juan Garcia	Juan Garcia	169840	JG	9-24-16
Leon Montoya		191526	LM	9-24-16
Juan Garcia	Juan Garcia	169840	JG	9-25-16
Leon Montoya		191526	LM	9-25-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

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

	Monday 6.[4] Date & Start Time: 9-26-16/1305	Tuesday 6.[4] Date & Start Time: 09-27-16/1320	Wednesday 6.[4] Date & Start Time: 09-28-16/1320	Thursday 6.[4] Date & Start Time: 09-29-16/1317	Friday 6.[4] Date & Start Time: 09-30-16/1310	Saturday 6.[4] Date & Start Time: 10-1-16/1310	Sunday 6.[4] Date & Start Time: 10-2-16/1309
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal Due Date: 10-21-16 File Number: 101912	Brand: Fluke Model: 561 Cal Due Date: 10-21-16 File Number: 101912	Brand: Fluke Model: 561 Cal Due Date: 10-21-16 File Number: 101912	Brand: Fluke Model: 561 Cal Due Date: 1-28-17 File Number: 104841	Brand: Fluke Model: 561 Cal Due Date: 1-28-17 File Number: 104841	Brand: Fluke Model: 561 Cal Due Date: 1-28-17 File Number: 104841	Brand: Fluke Model: 561 Cal Due Date: 1-28-17 File Number: 104841
Ambient Temperature (6.[5])	58.3 °F	59.6 °F	61.2 °F	61.9 °F	61.9 °F	59.1 °F	59.3 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	58.7	59.4	59.4	63.9	62.8	61.2	60.3
LA00000070503 68540	57.6	58.9	59.7	61.2	61.6	59.9	60.5
LA00000070503 68553	57.3	58.8	58.8	61.0	61.7	59.0	59.1
69445	57.3	58.6	59.1	61.1	60.8	59.8	59.4
69618	57.4	58.5	59.3	60.8	61.4	58.9	59.2
69013	58.1	59.3	60.6	62.4	62.4	60.2	60.5
LASB50522 69076	56.6	58.8	58.0	61.5	61.1	57.9	59.5
LASB50452 69490	56.9	57.6	59.1	60.4	60.3	58.5	58.3
LASB50431 69280	56.0	57.0	58.6	60.0	58.8	58.1	58.5
LASB50069 69208	56.8	57.6	58.6	59.7	60.1	59.7	58.2
LASB50073 69079	57.0	58.0	58.7	60.6	60.9	58.3	58.9
69636	57.8	58.3	58.8	60.8	59.7	58.6	58.4

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INITIAL FBH DATE 9-26-16

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	56.8	58.6	60.8	60.9	60.5	58.0	58.2
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	57.1	58.7	58.6	60.9	60.7	60.5	59.7
69520	57.9	58.4	60.8	60.7	61.3	58.6	58.9
69641	56.4	59.0	56.8	61.1	60.8	58.8	59.3
69298	56.3	57.7	59.7	60.4	59.6	58.0	57.8
LASB02203 92669	55.4	56.5	56.9	58.9	58.1	57.5	58.0
End Time (6.[14])	1309	1322	1328	1349	1315	1314	1313
6.[14]	WO: FH WO:	WO: VDM WO:	WO: VDM WO:	WO: VDM WO: FH	WO: EP WO: FH	WO: EP WO: FH	WO: EP WO: FH

Comments: NO Comments

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	Fabian Araya	174963	FA	09-26-16
Juan Montoya		191526	JM	09-26-16
Valerie Martinez	Valerie Martinez	239458	VM	09/27/16
Juan Montoya		191526	JM	09/27/16
Valerie Martinez	Valerie Martinez	239458	VM	09/28/16
Juan Garcia	Juan Garcia	169840	JG	09-28-16
Valerie Martinez	Valerie Martinez	239458	VM	09/29/16

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Araya	Fabian Araya	174963	FA	9-29-16
Edward Pacheco	Edward Pacheco	100497	EP	9-30-16
Fabian Araya	Fabian Araya	174963	FA	9-30-16
Edward Pacheco	Edward Pacheco	100497	EP	10-1-16
Fabian Araya	Fabian Araya	174963	FA	10-1-16
Edward Pacheco	Edward Pacheco	100497	EP	10-2-16
Fabian Araya	Fabian Araya	174963	FA	10-2-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time: 9-26-16/1310	Tuesday 6.[4] Date & Start Time: 09-27-16/1316	Wednesday 6.[4] Date & Start Time: 09-28-16/1321	Thursday 6.[4] Date & Start Time: 09-29-16/1350	Friday 6.[4] Date & Start Time: 09-30-16/1305	Saturday 6.[4] Date & Start Time: 10-1-16/1306	Sunday 6.[4] Date & Start Time: 10-2-16/1305
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 1-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841
Ambient Temperature (6.[5])	54.0 °F	56.8 °F	56.2 °F	61.9 °F	57.4 °F	55.7 °F	55.6 °F
(S) Temperature ≤ 75°F SR 4 ESS 5 1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	52.6	54.7	53.6	62.9	55.7	54.9	53.7
68638	52.6	56.3	54.6	62.7	56.3	54.2	54.7
69615	54.0	56.1	55.8	62.2	59.2	56.2	56.1
69635	54.4	56.1	56.1	61.9	59.1	56.1	55.8
69642	54.9	57.1	56.3	62.5	60.5	56.4	56.9
69630	54.7	56.3	55.5	61.4	58.9	56.0	55.7
69633	53.9	56.1	55.3	62.7	58.3	55.9	56.8
68430	54.3	57.2	55.8	62.9	59.2	56.7	56.6
68631	52.0	54.9	52.8	62.2	55.6	52.3	53.3
69634	53.2	54.3	53.4	61.0	54.1	52.4	52.2
68567	52.0	54.8	52.2	62.3	56.0	54.2	53.6
94227	53.0	54.9	53.7	61.7	55.9	53.5	53.0
LASB50442 68648	53.9	55.6	53.0	61.5	58.1	55.8	55.9
69644	54.2	55.4	54.6	61.1	58.3	54.9	55.1
LASB50443 69183	53.8	55.4	55.0	61.4	58.1	56.9	55.9
69638	53.8	56.1	55.3	62.0	57.9	55.3	55.3

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Container ID #		Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		53.9	55.9	55.7	61.8	58.2	55.2	54.8
68507		54.6	56.4	55.2	62.2	58.0	55.3	55.0
69568		51.7	54.4	53.7	61.5	55.5	52.8	53.7
69553		52.7	54.6	53.0	61.6	57.4	53.4	53.5
69598		54.1	55.7	54.4	63.1	57.3	54.9	55.5
LASB50559	92472	51.6	55.5	53.3	62.6	55.5	53.1	52.6
	92459	50.8	55.0	50.7	62.2	53.9	52.1	51.8
69015		54.1	55.9	55.4	62.4	57.2	54.9	54.5
69639		53.9	55.9	55.0	62.1	57.4	54.5	54.4
69637		53.9	55.9	55.1	62.8	57.7	54.8	54.7
End Time (6.[14])		1318	1319	1325	1353	1309	1309	1308
6.[14]		WO: FK WO: LM	WO: VM WO: [illegible]	WO: VM WO: [illegible]	WO: VM WO: FK	WO: EP WO: FK	WO: EP WO: FK	WO: EP WO: FK

Comments: No Comments

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	09-26-16
Leon Montoya		19526	LM	09-26-16
Valerie Martinez	Valerie Martinez	239858	VM	09/27/16
Leon Montoya		19526	LM	09-27-16
Valerie Martinez	Valerie Martinez	239858	VM	09/28/16
Juan Garcia	Juan Garcia	169840	JG	09-28-16
Valerie Martinez	Valerie Martinez	239858	VM	09/29/16

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-29-16
Edward Pacheco	Edward Pacheco	100497	EP	09-30-16
Fabian Anaya	Fabian Anaya	174963	FA	9-30-16
Edward Pacheco	Edward Pacheco	100497	EP	10-1-16
Fabian Anaya	Fabian Anaya	174963	FA	10-1-16
Edward Pacheco	Edward Pacheco	100497	EP	10-2-16
Fabian Anaya	Fabian Anaya	174963	FA	10-2-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time	Tuesday 6.[4] Date & Start Time	Wednesday 6.[4] Date & Start Time	Thursday 6.[4] Date & Start Time	Friday 6.[4] Date & Start Time	Saturday 6.[4] Date & Start Time	Sunday 6.[4] Date & Start Time
	9-26-16/1329	09/27/16/1311	09-28-16/1316	09-29-16/1354	09-30-16/1300	10-1-16/1300	10-2-16/1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke; Model 561; Cal Due Date 6-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975	Brand Fluke; Model 561; Cal Due Date 06-20-17; File Number 101975
Ambient Temperature (6[5])	60.2 °F	56.8 °F	58.5 °F	59.7 °F	59.0 °F	59.0 °F	58.1 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	56.1	56.7	55.6	60.8	58.6	56.7	56.4
69645	53.9	54.9	55.3	57.1	56.4	55.1	55.3
94068	53.9	54.7	55.6	57.6	57.7	55.9	56.4
93605	55.1	56.1	57.0	58.8	59.2	57.1	57.2
69548	55.4	56.1	56.5	59.7	60.5	57.4	58.1
69604	55.8	56.5	56.8	59.2	59.6	58.3	56.8
LASB50529 68665	55.2	55.7	55.7	58.0	58.5	56.9	58.0
LASB50418 69595	56.1	56.7	56.5	59.3	59.3	57.9	57.0
69036	56.5	56.4	56.9	60.9	60.7	57.8	58.1
LASB50451 69361	56.0	56.5	57.4	59.8	59.8	57.8	57.3
69559	55.9	56.2	55.4	59.3	59.6	57.5	57.4
LASB50448 69491	56.7	56.9	57.4	59.5	59.3	58.6	57.3

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	57.3	56.6	58.8	62.0	60.2	60.1	59.0
87826	57.6	57.0	58.2	61.4	60.5	58.6	58.3
87823	57.5	57.6	58.2	62.0	61.3	59.0	59.3
87825	59.5	59.1	58.5	62.1	64.0	60.6	60.2
End Time (6.[14])	1325	1315	1320	1350	1304	1305	1304
6.[14]	WO: FA WO:	WO: VDM WO:	WO: VDM WO:	WO: VDM WO: FA	WO: EP WO: FA	WO: EP WO: FA	WO: EP WO: FA

Comments: NO Comments

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	09-26-16
Leon Montoya		191526	Lm	09-26-16
Valerie Martinez	Valerie Martinez	239458	VM	09/27/16
Leon Montoya		191526	Lm	09-27-16
Valerie Martinez	Valerie Martinez	239458	VM	09-28-16
Juan Garcia	Juan Garcia	169840	JG	09-28-16
Valerie Martinez	Valerie Martinez	239458	VM	09/29/16

Waste Operator (print)	Signature	Z#	Initials	Date
Fabian Anaya	Fabian Anaya	174963	FA	9-29-16
Edward Pacheco	Edward Pacheco	100497	EP	9-30-16
Fabian Anaya	Fabian Anaya	174963	FA	9-30-16
Edward Pacheco	Edward Pacheco	100497	EP	10-1-16
Fabian Anaya	Fabian Anaya	174963	FA	10-1-16
Edward Pacheco	Edward Pacheco	100497	EP	10-2-16
Fabian Anaya	Fabian Anaya	174963	FA	10-2-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

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

	Monday 6.[4] Date & Start Time: 10-03-16 / 1334	Tuesday 6.[4] Date & Start Time: 10-04-16 / 1332	Wednesday 6.[4] Date & Start Time: 10-05-16 / 1327	Thursday 6.[4] Date & Start Time: 10-06-16 / ~~1323~~ 1330 TJF 10-06-16	Friday 6.[4] Date & Start Time: 10-07-16 / 1320	Saturday 6.[4] Date & Start Time: 10-8-16 / 1311	Sunday 6.[4] Date & Start Time: 10-09-16 / 1314
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand FLUKE Model 561 Cal. Due Date 10-21-16 File Number 101912	Brand Fluke Model 561 Cal. Due Date 10-21-16 File Number 101912
Ambient Temperature (6.[5])	58.8 °F	57.5 °F	58.6 °F	~~51.3~~ 57.4 °F VKT 10-06-16	57.5 °F	53.4 °F	57.5 °F
(S) Temperature ≤ 75°F SR 4.ES5.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	61.1	59.5	58.4	~~53.7~~ 58.8 VKT 10-6-16	56.3	53.1	56.8
LA00000070503 68540	58.4	58.0	57.0	~~58.7~~ 56.4 VKT 10-06-16	55.9	52.7	56.16
LA00000070503 68553	58.7	55.8	56.9	~~58.2~~ 56.2 VKT 10-06-16	55.1	52.6	56.3
69445	59.0	57.8	57.2	~~54.0~~ 57.2 VKT 10-06-16	55.9	52.4	56.0
69618	59.8	56.7	57.2	~~54.1~~ 57.3 VKT 10-06-16	55.1	52.1	55.5
69013	59.5	56.9	57.5	~~54.2~~ 55.8 VKT 10-06-16	56.1	52.3	56.3
LASB50522 69076	57.7	55.5	56.8	~~54.7~~ 56.0 VKT 10-06-16	54.9	52.2	54.9
LASB50452 69490	57.2	55.1	56.0	~~54.3~~ 54.8 VKT 10-06-16	55.2	51.8	55.5
LASB50431 69280	56.0	54.1	56.1	~~54.3~~ 55.1 VKT 10-06-16	54.9	52.0	55.3
LASB50069 69208	57.4	55.8	56.5	56.2	55.2	52.5	56.4
LASB50073 69079	58.2	55.7	56.5	55.6	55.3	52.4	56.3
69636	58.1	55.7	56.6	56.1	55.4	52.4	56.0

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	58.5	56.5	56.5	56.3	55.0	51.8	55.7
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	60.0	55.7	56.9	55.9	54.8	52.1	55.1
69520	58.5	56.2	56.5	56.6	55.2	52.2	55.7
69641	57.9	55.4	56.4	55.6	55.3	52.8	55.8
69298	57.2	54.5	56.1	54.7	54.8	52.0	55.3
LASB02203 | 92669	55.9	53.5	56.3	54.0	54.8	51.9	55.4
End Time (6.[14])	1337	1437	1330	1352	1323	1315	1316
6.[14]	WO: FP WO: FH	WO: VDM WO: FA	WO: VDM WO: e	WO: VDM WO: e	WO: VDM WO:	WO: VDM WO:	WO: VDM WO:

Comments: NC

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Encinias	Edward Encinias	V00497	EE	10-03-16
Fabian Anaya	Fabian Anaya	174963	FA	10-03-16
Valerie Martinez	Valerie Martinez	239758	VM	10/04/16
Fabian Anaya	Fabian Anaya	174963	FA	10-04-16
Leon Montoya		19526		10/4/16 10-05-16
Valerie Martinez	Valerie Martinez	239758	VM	10/05/16
Valerie Martinez	Valerie Martinez	239758	VM	10/06/16
Leon Montoya		19526		10-06-16
Valerie Martinez	Valerie Martinez	239758	VM	10/07/16
Juan Garcia	Juan Garcia	169840	JG	10-07-16
Valerie Martinez	Valerie Martinez	239758	VM	10/08/16
Juan Garcia	Juan Garcia	169840	JG	10-08-16
Valerie Martinez	Valerie Martinez	239758	VM	10/09/16
Juan Garcia	Juan Garcia	169840	JG	10-9-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time: 10-03-16/1328	Tuesday 6.[4] Date & Start Time: 10-04-16/1438	Wednesday 6.[4] Date & Start Time: 10-05-16/1324	Thursday 6.[4] Date & Start Time: 10-06-16/1327	Friday 6.[4] Date & Start Time: 10-07-16/1316	Saturday 6.[4] Date & Start Time: 10-08-16/1305	Sunday 6.[4] Date & Start Time: 10-09-16/1310
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand FLUKE Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand FLUKE Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841
Ambient Temperature (6.[5])	56.9 °F	52.9 °F	53.3 °F	52.0 °F	52.0 °F	51.6 °F	55.4 °F
(S) Temperature ≤ 75°F SR 4 ESS 5 1 (6 [6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	53.6	51.8	51.0	51.0	51.4	51.2	54.4
68638	53.7	52.2	51.5	52.1	51.2	50.4	54.2
69615	55.9	53.9	53.5	53.0	52.2	51.4	54.4
69635	56.0	53.9	53.5	53.7	52.1	51.0	55.0
69642	56.4	54.3	53.9	53.9	54.0	50.9	55.0
69630	55.8	53.3	53.2	53.9	52.7	51.3	54.8
69633	55.7	53.3	52.8	53.4	51.6	50.5	54.2
68430	56.4	53.7	53.5	54.0	51.2	50.2	54.7
68631	52.5	50.4	50.0	50.8	49.9	49.4	53.3
69634	52.2	49.4	50.1	50.5	48.6	49.0	53.7
68567	55.1	50.7	51.3	51.3	50.4	49.6	53.6
94227	53.5	50.7	51.0	51.2	50.0	49.6	54.2
LASB50442 68648	55.2	52.0	52.5	52.7	50.3	50.0	54.0
69644	55.3	52.0	52.2	53.4	52.3	50.1	54.1
LASB50443 69183	55.2	53.0	52.0	53.0	51.7	50.4	54.6
69638	55.0	52.6	51.8	52.9	51.5	50.0	54.4

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Z# 100497
INITIAL FP DATE 10-2-16

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Container ID #		Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		54.7	52.9	51.9	52.4	51.3	49.8	54.16
68507		55.1	52.0	51.9	53.0	51.0	50.7	53.9
69568		53.9	50.2	50.2	51.8	50.0	49.4	53.9
69553		53.7	50.9	51.0	51.3	51.0	49.2	54.0
69598		56.5	52.9	51.16	51.8	50.9	50.6	54.0
LASB50559	92472	53.1	49.8	49.16	50.16	49.16	49.9	53.3
	92459	52.4	49.3	49.9	49.7	48.16	49.0	53.7
69015		55.0	53.9	51.8	52.7	51.4	50.7	53.8
69639		54.8	51.8	52.0	52.7	51.0	50.0	54.1
69637		54.9	51.7	51.7	52.3	50.7	49.7	54.7
End Time (6.[14])		1333	1441	1326	1329	1319	1310	1313
6.[14]		WO: EP WO: ~~FA~~	WO: VDM WO: FA	WO: VDM WO: cm	WO: VDM WO:	WO: VDM WO:	WO: VDM WO:	WO: VDM WO:

Comments: N/C

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Parker	Edward Parker	100497	EP	10-03-16
Fabian Anaya	Fabian Anaya	174963	FA	10-03-16
Valerie Martinez	Valerie Martinez	239758	VM	10/04/16
Fabian Anaya	Fabian Anaya	174963	FA	10-4-16
Leon Montoya		171526	LM	10-5-16 10-06-16
Valerie Martinez	Valerie Martinez	239758	VM	10/05/16
Valerie Martinez	Valerie Martinez	239758	VM	10/06/16
Leon Montoya		171526	LM	10-06-16
Valerie Martinez	Valerie Martinez	239758	VM	10/07/16
Juan Garcia		169840	JG	10-07-16
Valerie Martinez	Valerie Martinez	239758	VM	10-08-16
Juan Garcia		169840	JG	10-08-16
Valerie Martinez	Valerie Martinez	239758	VM	10/09/16
Juan Garcia		169840	JG	10-09-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time	Tuesday 6.[4] Date & Start Time	Wednesday 6.[4] Date & Start Time	Thursday 6.[4] Date & Start Time	Friday 6.[4] Date & Start Time	Saturday 6.[4] Date & Start Time	Sunday 6.[4] Date & Start Time
	10-03-16/1321	10-04-16/1442	10-05-16/1319	10-06-16/1323	10-07-16/1311	10-8-16/1300	10-09-16/1306
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975	Brand FLUKE Model 561 Cal Due Date 06-20-17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06-20-17 File Number 101975
Ambient Temperature (6.[5])	58.1 °F	55.8 °F	54.6 °F	54.3 °F	57.7 °F	51.8 °F	56.1 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	56.8	55.7	52.5	53.7	52.9	50.8	54.4
69645	53.6	52.5	51.6	52.7	51.4	50.2	54.0
94068	54.8	52.6	51.0	52.2	50.7	50.6	54.1
93605	55.8	53.1	52.6	54.0	51.5	50.6	54.8
69548	57.0	53.6	52.7	54.1	53.3	50.7	54.9
69604	56.7	53.1	52.9	54.2	52.3	51.0	55.1
LASB50529 68665	56.7	52.6	52.2	54.7	~~52.0~~ 52.3	50.6	54.3
LASB50418 69595	57.1	53.9	53.0	54.3	52.0	51.0	55.1
69036	58.2	54.4	53.2	54.3	~~52.2~~ 53.0	52.6	55.3
LASB50451 69361	56.7	54.7	53.4	54.3	~~52.6~~ 52.2	51.1	55.1
69559	57.3	54.8	53.2	54.6	52.6	50.9	55.1
LASB50448 69491	56.6	54.2	53.3	54.5	52.2	51.8	54.6

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Z# 100497
INITIAL EP DATE 10-3-16

ATTACHMENT 4
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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	58.4	55.8	54.2	55.2	53.4	53.2	57.5
87826	58.1	54.8	53.7	55.3	52.16	52.2	57.1
87823	59.6	54.7	54.3	55.8	54.1	51.4	55.7
87825	61.6	58.0	56.6	57.9	55.8	51.6	54.9
End Time (6.[14])	1327	1446	1323	1326	1315	1304	1309
6.[14]	WO: EP WO: ~~EA~~	WO: VDM WO: ~~FA~~	WO: VDM WO: VDM	WO: VDM WO: [illegible]	WO: VDM WO: [signature]	WO: VDM WO: [signature]	WO: VDM WO: [signature]

Comments: No Comment

ATTACHMENT 4
Page 3 of 3

6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	1004971	EP	10-3-16
Fabian Anaya	Fabian Anaya	174963	FA	10-03-16
Valerie Martinez	Valerie Martinez	239958	VM	10.04.16
Fabian Anaya	Fabian Anaya	174963	FA	10-04-16
Leon Montoya		191526		10-05-16 10-5-16
Valerie Martinez	Valerie Martinez	239958	VM	10/05/16
Valerie Martinez	Valerie Martinez	239958	VM	10/06/16
Leon Montoya		191526		10-06-16
Valerie Martinez	Valerie Martinez	239958	VM	10/07/16
Juan Garcia	Juan Garcia	169840	JG	10-07-16
Valerie Martinez	Valerie Martinez	239958	VM	10-08-16
Juan Garcia	Juan Garcia	169840	JG	10-08-16
Valerie Martinez	Valerie Martinez	239958	VM	10/09/16
Juan Garcia	Juan Garcia	169840	JG	10-09-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

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

	Monday 6.[4] Date & Start Time:	Tuesday 6.[4] Date & Start Time:	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
	10-10-16 / 1308	10-11-16 / 1316	10-12-16 / 1321	10-13-16 / 1327	10-14-16 / 1305	10-15-16 / 1310	10-16-16 / 1311
TA-54-0375 Cell 1					MZ 1317 10-14-16		
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: Fluke / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: Fluke / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: Fluke / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: FLUKE / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: FLUKE / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912	Brand: FLUKE / Model: 561 / Cal. Due Date: 10-21-16 / File Number 101912
Ambient Temperature (6.[5])	56.4 °F	58.6 °F	59.2 °F	57.1 °F	58.2 °F	58.4 °F	58.2 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	56.6	59.2	100.7	59.1	58.0	59.8	59.3
LA00000070503 68540	55.8	58.6	59.2	56.7	57.3	58.0	57.7
LA00000070503 68553	56.0	57.5	58.6	56.2	57.0	57.8	58.2
69445	55.4	57.5	59.0	56.6	57.3	58.5	58.4
69618	55.5	57.9	58.7	56.6	57.2	58.9	57.5
69013	55.8	59.0	100.0	57.4	58.4	58.7	58.9
LASB50522 69076	55.2	57.6	58.9	55.9	57.7	58.3	57.7
LASB50452 69490	54.6	56.9	58.1	55.7	56.6	57.7	57.6
LASB50431 69280	54.3	56.5	58.1	54.6	55.3	56.5	56.6
LASB50069 69208	54.1	56.4	57.8	55.9	56.1	57.4	52.5
LASB50073 69079	54.9	57.4	58.5	55.9	57.6	57.9	58.0
69636	54.9	56.5	58.2	55.7	56.6	57.1	57.0

WORKING COPY
Z# 239958
INITIAL VDM DATE 10-10-16

ATTACHMENT 2
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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	54.9	56.8	59.0	56.1	57.3	57.3	56.9
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	55.5	57.7	58.8	56.4	57.1	57.1	57.6
69520	55.5	57.4	59.9	56.5	57.6	57.6	58.2
69641	54.7	57.6	58.0	56.3	57.2	57.2	57.7
69298	54.2	56.5	57.9	55.2	56.1	56.1	57.1
LASB02203 92669	53.9	55.6	56.9	55.0	55.4	55.4	55.9
End Time (6.[14])	1312	1322	1324	1330	1321	1314	1315
6.[14]	WO: VDM WO:	WO: FBA WO:	WO: VDM WO:	WO: VDM WO:	WO: MZ WO:	WO: MZ WO:	WO: MZ WO:

Comments: N/C

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10-10-16
Juan Garcia	Juan Garcia	169840	JG	10-10-16
Fabian Arauza	Fabian Arauza	174963	FA	10-11-16
Leon Montoya	Leon Montoya	191526	LM	10-11-16
Valerie Martinez	Valerie Martinez	239958	VM	10-12-16
Leon Montoya	Leon Montoya	191526	LM	10-12-16
Valerie Martinez	Valerie Martinez	239958	VM	10-13-16

Waste Operator (print)	Signature	Z#	Initials	Date
Leon Montoya	Leon Montoya	191526	LM	10-13-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-14-16
Robert Hansel	Robert Hansel	291788	RH	10-14-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-15-16
Robert Hansel	Robert Hansel	291788	RH	10-15-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-16-16
Robert Hansel	Robert Hansel	291788	RH	10-16-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time: 10-10-16 / 1313	Tuesday 6.[4] Date & Start Time: 10-11-16 / 1309	Wednesday 6.[4] Date & Start Time: 10-12-16 / 1318	Thursday 6.[4] Date & Start Time: 10-13-16 / 1323	Friday 6.[4] Date & Start Time: 10-14-16 / 1313	Saturday 6.[4] Date & Start Time: 10-15-16 / 1305	Sunday 6.[4] Date & Start Time: 10-16-16 / 1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104841
Ambient Temperature (6.[5])	55.3 °F	53.2 °F	100.2 °F	52.10 °F	53.5 °F	53.5 °F	53.5 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	54.5	52.3	59.9	51.9	51.9	52.2	52.9
68638	52.4	52.9	59.3	52.3	52.6	52.9	53.5
69615	55.8	64.1	59.5	54.1	54.4	54.5	54.6
69635	54.0	54.0	59.3	53.7	54.0	54.8	54.5
69642	53.9	55.2	59.5	54.3	54.5	55.0	55.3
69630	53.8	54.8	58.8	53.5	54.0	54.3	54.1
69633	53.2	54.1	58.9	53.2	54.1	53.8	53.8
68430	53.2	54.1	59.6	53.6	53.6	54.2	54.2
68631	50.4	52.0	59.3	51.4	52.1	52.0	52.4
69634	50.8	52.3	57.8	50.1	50.4	50.5	50.2
68567	51.8	52.1	59.0	51.9	52.0	52.5	52.1
94227	52.4	53.8	59.0	51.6	52.3	52.4	52.2
LASB50442 68648	52.6	53.7	58.7	52.9	53.4	54.1	54.1
69644	52.6	53.8	58.5	53.6	53.7	54.3	54.0
LASB50443 69183	53.8	53.9	59.6	53.1	54.0	54.4	54.3
69638	53.8	53.9	59.5	53.0	53.9	54.5	54.0

WORKING COPY
Z# 239958
INITIAL VDM DATE 10.10.16

ATTACHMENT 3
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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)							
68624	52.8	53.5	59.2	52.8	53.2	53.9	54.3
68507	52.9	53.9	59.9	53.4	53.7	54.0	53.9
69568	52.2	52.2	58.2	51.6	53.8	52.2	52.1
69553	52.7	52.9	58.7	51.9	51.8	53.5	53.0
69598	53.0	53.6	59.9	52.4	52.8	54.1	53.2
LASB50559 92472	52.4	51.9	59.5	50.1	52.9	51.5	50.9
LASB50559 92459	51.0	50.9	59.2	50.6	51.1	50.6	50.1
69015	52.3	53.8	59.6	53.2	50.3	53.9	53.9
69639	52.9	53.6	59.5	52.9	53.0	53.7	53.7
69637	52.6	53.6	59.6	52.7	53.2	53.3	53.6
End Time (6.[14])	1316	1315	1320	1326	1318	1309	1310
6.[14]	WO: VDM WO:	WO: FA WO: LM	WO: VDM WO: LM	WO: VDM WO: LM	WO MZ WO:	WO: MZ WO:	WO: MZ WO:

Comments: N/C

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239858	VM	10.10.16
Juan Garcia	Juan Garcia	169890	JG	10-10-16
Fabian Anaya	Fabian Anaya	174963	FA	10-11-16
Leon Montoya	Leon Montoya	191526	LM	10-11-16
Valerie Martinez	Valerie Martinez	239858	VM	10.12.16
Leon Montoya	Leon Montoya	191526	LM	10-12-16
Valerie Martinez	Valerie Martinez	239858	VM	10.13.16
Leon Montoya	Leon Montoya	191526	LM	10-13-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-14-16
Robert HANSEL	Robert Hansel	291728	RH	10-14-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-15-16
Robert HANSEL	Robert Hansel	291728	RH	10-15-16
MATTHEW ZOCCO	Matthew Zocco	311676	MZ	10-16-16
Robert HANSEL	Robert Hansel	291728	RH	10-16-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
Page 1 of 3

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

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time:	Tuesday 6.[4] Date & Start Time:	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
	10-10-16 1317	10-11-16/1302	10-12-16 1314	10-13-16 1317	10-14-16/1305	10-15-16 /1300	10-16-16/1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975
Ambient Temperature (6.[5])	54.0 °F	56.1 °F	56.9 °F	54.9 °F	55.1 °F	56.4 °F	57.4 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	52.7	55.4	58.2	53.5	54.3	54.7	55.4
69645	51.6	54.4	57.3	52.7	53.3	53.9	54.0
94068	51.7	54.3	57.6	52.4	53.1	54.0	53.9
93605	53.4	55.5	58.8	54.1	54.1	54.8	55.1
69548	53.3	55.9	56.7	53.9	54.4	55.6	55.6 ~~55.5~~ MZ 10-16-16
69604	55.4	57.0	55.2	54.1	54.6	55.0	55.3 ~~55.3~~ MZ 10-16-16
LASB50529 68665	~~55.4~~ 53.4	55.4	54.3	53.5	54.3	55.7	55.2 ~~56.0~~ MZ 10-16-16
LASB50418 69595	53.7	54.4	55.5	54.2	54.8	55.3	56.0
69036	54.2	56.4	55.2	54.6	55.8	56.5	56.1
LASB50451 69361	53.6	56.2	55.9	54.3	55.6	56.7	56.6
69559	53.4	56.2	55.6	54.2	55.1	56.4	~~56.3~~ MZ 10-16-16 56.3
LASB50448 69491	54.4	56.1	56.4	54.3	55.2	56.2	56.2

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Z# 239958
INITIAL rm DATE 239958

ATTACHMENT 4
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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	57.0	58.0	58.0	55.0	56.4	58.2	59.3
87826	56.1	56.9	56.9	54.8	57.1	57.7	57.9
87823	54.6	57.7	57.7	55.5	56.6	56.6	57.1
87825	54.0	59.8	59.8	53.3	57.1	57.9	57.8
End Time (6.[14])	1320	1308	1317	1322	1312	1304	1305
6.[14]	WO: VDM WO: [signature]	WO: FA WO: LM	WO: VDM WO: LM	WO: VDM WO: LM	WO: MZ WO: [signature]	WO: MZ WO: [signature]	WO: MZ WO: [signature]

Comments: N/C

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239158	VM	10-10-16
Juan Garcia	Juan Garcia	169840	JG	10-10-16
Fabian Anaya	Fabian Anaya	174613	FA	10-11-16
Leon Montoya	Leon Montoya	191526	LM	10-11-16
Valerie Martinez	Valerie Martinez	239158	VM	10/12/16
Leon Montoya	Leon Montoya	191526	LM	10-12-16
Valerie Martinez	Valerie Martinez	239158	VM	10-13-16
Leon Montoya	Leon Montoya	191526	LM	10-13-16
MATTHEW ZOCCO	MATTHEW ZOCCO	311674	MZ	10-14-16
Robert Hansel	Robert Hansel	291782	RH	10-14-16
MATTHEW ZOCCO	MATTHEW ZOCCO	311674	MZ	10-15-16
Robert Hansel	Robert Hansel	291782	RH	10-15-16
MATTHEW ZOCCO	MATTHEW ZOCCO	311674	MZ	10-16-16
Robert Hansel	Robert Hansel	291782	RH	10-16-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
Page 1 of 3

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

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

	Monday 6.[4] Date & Start Time: 10-17-16/1539	Tuesday 6.[4] Date & Start Time: 10-18-16/1325	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number: 104841	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[5])	102.2 °F	59.3 °F	°F	°F	°F	°F	°F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	101.3	59.7					
LA00000070503 68540	100.9	58.6					
LA00000070503 68553	101.0	58.7					
69445	101.5	59.4					
69618	59.8	58.1					
69013	101.1	59.8					
LASB50522 69076	100.10	57.8					
LASB50452 69490	100.10	57.5					
LASB50431 69280	59.2	57.2					
LASB50069 69208	59.3	58.3					
LASB50073 69079	59.5	57.9					
69636	58.7	57.3					

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Z# 100497
INITIAL EP DATE 10-17-16

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	58.9	57.7					
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	60.7	59.4					
69520	60.4	57.9					
69641	60.2	57.4					
69298	59.1	57.3					
LASB02203 92669	58.4	56.9					
End Time (6.[14])	1542	1328					
6.[14]	WO: EA WO: EA	WO: EA WO: EA	WO: WO:	WO: WO:	WO: WO:	WO: WO:	WO: WO:

Comments:

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	100497	EP	10-17-16
Fabian Anaya	Fabian Anaya	174963	FH	10-17-16
MATTHEW ZUCCO	Matthew Zucco	311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	174963	FH	10-18-16

Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time:	Tuesday 6.[4] Date & Start Time:	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
	10-17-16/1523	10-18-16/1320					
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 01-28-17 File Number 104841	Brand FLUKE Model 561 Cal Due Date 01-28-17 File Number 104841	Brand Model Cal Due Date File Number	Brand Model Cal Due Date File Number	Brand Model Cal Due Date File Number	Brand Model Cal Due Date File Number	Brand Model Cal Due Date File Number
Ambient Temperature (6.[5])	56.8 °F	58.3 °F	°F	°F	°F	°F	°F
(S) Temperature ≤ 75°F SR 4 FSS 5 1 (6 [6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	53.5	56.9					
68638	55.2	56.5					
69615	56.8	57.4					
69635	56.3	57.2					
69642	57.7	58.0					
69630	56.7	57.1					
69633	56.2	58.0					
68430	56.4	57.4					
68631	53.5	56.1					
69634	51.5	55.9					
68567	55.3	56.0					
94227	54.4	55.6					
LASB50442 68648	56.0	56.6					
69644	56.2	55.5					
LASB50443 69183	56.7	56.9					
69638	57.2	57.2					

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INITIAL AP DATE 10-17-16

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Container ID #		Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		56.2	56.6					
68507		56.6	56.7					
69568		54.5	55.6					
69553		54.8	56.0					
69598		55.5	56.2					
LASB50559	92472	54.7	57.6					
	92459	52.3	56.6					
69015		57.6	57.7					
69639		55.2	55.9					
69637		56.2	57.6					
End Time (6.[14])		1537	1324					
6.[14]		WO: AP WO: FA	WO: MZ WO: FA	WO: WO:	WO: WO:	WO WO:	WO: WO:	WO: WO:

Comments:

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Padeco	Edward Padeco	Y00497	ED	10-17-16
Fabian Anaya	Fabian Anaya	174962	FA	10-17-16
MATTHEW ZACO	Matthew Zaco	311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	174962	FA	10-18-16

Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE *Containers marked by an (*) are POCs.*

	Monday 6.[4] Date & Start Time:	Tuesday 6.[4] Date & Start Time:	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
	10-17-16/1517	10-18-16/1315					
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06.20.17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06.20.17 File Number: 101975	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[5])	58.9 °F	55.6 °F	____ °F	____ °F	____ °F	____ °F	____ °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	60.4	55.7					
69645	56.4	53.7					
94068	56.1	53.9					
93605	58.3	56.9					
69548	59.5	55.5					
69604	58.5	56.0					
LASB50529 68665	57.7	55.2					
LASB50418 69595	58.5	56.3					
69036	58.8	56.4					
LASB50451 69361	58.1	56.2					
69559	58.9	56.0					
LASB50448 69491	59.0	55.7					

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EP DATE 10-17-16

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	62.0	58.9					
87826	60.7	57.3					
87823	61.7	58.8					
87825	60.9	60.3					
End Time (6.[14])	1522	1319					
6.[14]	WO: LP WO: FH	WO: MZ WO: FH	WO: WO:	WO: WO:	WO: WO:	WO: WO:	WO: WO:

Comments:

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	VC0497	EP	10-17-16
Fabian Anaya	Fabian Anaya	174963	FA	10-17-16
MATTHEW ZOCCO	Matthew Z	311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	174963	FA	10-18-16

Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date