

From: [Ayarbe, John](#)
To: [Chavez, Carl, EMNRD](#)
Cc: pieter@thestandardenergy.com; saskia@thestandardenergy.com; [Myers, Jessica](#)
Subject: Salty Dog Brine Facility - subsidence monitoring
Date: Thursday, February 20, 2025 8:02:00 AM
Attachments: [2025-02-03_DBSA_SaltyDog_SurveyReport.pdf](#)

Hi Carl,

In accordance with Condition 2.B.1 of DP BW-8 (OCD 03/24/2019), Salty Dog (OGRID 184208) monitors for potential land subsidence in the area of the brine well semiannually. Salty dog is required to report the associated survey data to OCD within 15 days of receipt. The subsidence monitoring points are surveyed using the nearest U.S. Geological Survey (USGS) benchmark referenced to NM State Plane East (NAD 83).

The survey data for the most recent monitoring event (02/03/2025) are reported in the table below. Atkins Engineering Associates Inc. conducted the survey. The surface elevations at the five subsidence monitoring points changed little between this monitoring event and the previous monitoring event in July 2024. The survey data show that there has been no land subsidence. The current survey results are within 0.01 foot of the baseline elevations, well below the 0.10 ft criterium specified in Condition 2.B.1 of DP BW-8.

Potential Land Surface Subsidence Monitoring Data

Survey Monitoring Point	Elevation (feet msl)		
	<u>Atkins' Original</u> <u>06/29/2021</u>	<u>07/03/2024</u>	<u>02/03/2025</u>
SMP-01	3,810.10	3,810.10	3,810.10
SMP-02	3,809.02	3,809.01	3,809.02
SMP-03	3,808.83	3,808.82	3,808.82
SMP-04	3,806.33	3,806.33	3,806.33
SMP-05 (brine well)	3,810.06	3,810.06	3,810.06

I'll upload a copy of this email to OCD e-permitting and email you the action number.

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

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 voice: 575.624.2420
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02/03/2025

John P. Ayarbe
 Senior Hydrogeologist
 Daniel B. Stephens & Associates, Inc.
 6020 Academy Road NE, Suite 100
 Albuquerque, NM 87109

Emailed to: jayarbe@geo-logic.com on date of letter.

RE: Salty Dog Brine Facility

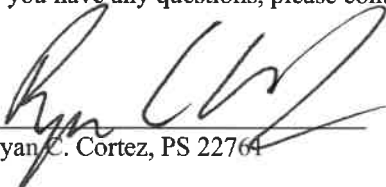
Atkins Engineering Associates, Inc. (AEA) has completed the survey at the Salty Dog Brine Facility. Field work was performed on 02/03/2025. The following table summarizes the coordinate and elevation data for the subsidence monitoring locations located on site.

Name	Northing (USft)	Easting (USft)	Latitude (DMS)	Longitude (DMS)	Elevation (USft)
SMP-1	615475.977	836301.437	32°41'17.960"	-103°22'28.520"	3810.10
SMP-2	615354.850	836264.338	32°41'16.795"	-103°22'28.966"	3809.02
SMP-3	615673.004	836230.089	32°41'19.945"	-103°22'29.334"	3808.82
SMP-4	615615.830	836543.487	32°41'19.352"	-103°22'25.673"	3806.33
SMP-5	615539.029	836348.733	32°41'18.609"	-103°22'27.960"	3810.06
Benchmark	615608.14	836310.07	32°41'19.27"	-103°22'28.40"	3808.62

Horizontal coordinates shown are coordinates provided by earlier survey that was conducted by Gary L. Jones, NMPS 7977. Coordinates are in NM State Plane East (NAD83).

Elevations for subsidence monitoring locations were established by using closed level loops, referenced to onsite benchmark previously set by Gary L. Jones. Benchmark is a ½" rebar with plastic cap 7977.

If you have any questions, please contact me at (575) 624-2420 or ryan@atkinseng.com


 Ryan C. Cortez, PS 22761

2/3/2025
 Date (Signed)



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 438592

COMMENTS

Operator: SALTY DOG INC P.O. Box 513 Hobbs, NM 88240	OGRID: 184208
	Action Number: 438592
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	Surface Subsidence Monitoring Survey Report: 2/3/2025	3/5/2025

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CONDITIONS

Created By	Condition	Condition Date
cchavez	None	3/5/2025