

TABLE 7. SUMMARY OF TREND ANALYSES 2020 - 2025
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Nitrate	Chloride	TDS	Located Downgradient of Lagoon	Comments
NORTHERN AREA					
Northern Land Application Area (DP-340)					
70-03	Stable	Stable	Stable	No	Nitrate, chloride, and TDS have stabilized since LAA was phased out. Nitrate is above the standard. Chloride is above the existing condition. TDS is below the existing condition.
70/86/340-01	Increasing	Stable	Stable	No	Well is located at the upgradient edge of Dona Ana Dairies. Nitrate is above the standard. Chloride and TDS are above their standards but below background concentrations.
86/340-01	Decreasing	Increasing	Increasing	No	Well is located upgradient of Dona Ana Dairies. Nitrate is below the standard. Chloride and TDS are generally above their standards but below background concentrations.
Organ Dairy (Former Del Norte Dairy) (DP-126)					
126-04	---	---	---	---	Dry since August 2022.
126-05	---	---	---	---	Dry since August 2022.
126-07	---	---	---	---	Dry since August 2022.
126-09	---	---	---	---	Dry since August 2022.
126-12	Stable	Increasing	Stable	No	Nitrate has been below the standard since August 2020. Chloride and TDS are below existing conditions, but above their respective standards. February 2025 was the last sampling event.
126-13	Decreasing	Stable	Decreasing	Yes	Well is located at the upgradient edge of Dona Ana Dairies. Concentrations are decreasing or stabilizing since LAA was phased out. Nitrate is above the standard. February 2025 was the last sampling event.
Mountain View Dairy (DP-70)					
70-01	Decreasing	Stable	Stable	No	Well is not located along the margins of the abatement plan area. Nitrate is above the standard. Chloride and TDS are above their respective standards but below background concentrations.
70-02	Decreasing	Stable	Stable	Yes	Chloride and TDS are above their respective standards but below background concentrations. Nitrate concentrations are expected to continue to decrease now that lagoon is synthetically lined. Nitrate is above the standard.
70-04	Stable	Stable	Stable	Yes	Well is not located along the margins of the abatement plan area. Nitrate is above the standard. Chloride and TDS are above their respective standards but below background concentrations.
Bright Star Dairy (DP-340)					
340-01	Increasing	Increasing	Stable	No	Well is not located along the margins of the abatement plan area. Chloride and TDS are generally above their respective standards but below background concentrations. Nitrate is above the standard.
340-02	---	---	---	---	Dry since November 2022.
Dominguez 2 Dairy (DP-42)					
42-02	Decreasing	Increasing	Stable	No	Well is near the western boundary. Nitrate concentrations have been below the standard since August 2022. Chloride and TDS are above their respective standards but below background concentrations.
42-03	Increasing	Decreasing	Decreasing	No	Well located along the eastern margin of the abatement area. Chloride and TDS are above their respective standards but below background concentrations. Nitrate is above the standard.
42-06	Decreasing	Decreasing	Decreasing	No	Nitrate is above the standard, but has a decreasing trend. Chloride and TDS are above their respective standards but below background concentrations.
42-07	---	---	---	---	Plugged and abandoned in 2020.
42-08	Stable	Increasing	Increasing	Yes	Nitrate is generally above the standard. Chloride and TDS are generally above their respective standards but below background concentrations.
42-09	---	---	---	---	Well was destroyed in 2015; plugged and abandoned in 2020.
42-10	Increasing	Stable	Stable	No	Well located along eastern margin of abatement plan area. Nitrate is generally below the standard. Chloride and TDS are generally above their respective standards but below background concentrations.
42-11	---	---	---	Yes	Not sampled in 2025.
42-12	Stable	Stable	Stable	No	Well located along eastern margin of abatement plan area. Nitrate is generally below the standard. Chloride and TDS are above their respective standards but below background concentrations.
42-13	Stable	Decreasing	Decreasing	No	Nitrate is above the standard. Chloride and TDS are above their respective standards but below background concentrations.

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Dominguez Dairy (DP-624)					
624-01	Increasing	Increasing	Increasing	No	Nitrate is above the standard. Chloride and TDS are above their respective standards but below background concentrations. Well is located at the western boundary of the abatement area.
624-02	Increasing	Increasing	Stable	No	Nitrate is generally above the standard. Chloride and TDS are above their respective standards but below background concentrations. Well is located at the western boundary of the abatement area.
624-04	---	---	---	---	Well has been dry since 2011. Plugged and abandoned in 2020.
624-05	---	---	---	---	Plugged and abandoned in 2020.
624-06	---	---	---	---	Well has been dry since 2013. Plugged and abandoned in 2020.
624-07	---	---	---	---	Well has been dry since 2011. Plugged and abandoned in 2020.
624-08	---	---	---	---	Well has been dry since 2011. Plugged and abandoned in 2020.
624-09	Stable	Stable	Stable	No	Upgradient well in the northern area, located to the east of the abatement area. Nitrate is below the standard. Chloride and TDS are generally above their respective standards but below background concentrations.
624-10	Stable	Increasing	Increasing	No	Nitrate has been below the standard since February 2022. Chloride and TDS are above their respective standards but below background concentrations.
624-11	Decreasing	Increasing	Increasing	Yes	Nitrate has been below the standard since May 2023. Chloride and TDS are above their respective standards but below background concentrations.
Abatement Plan Monitor Wells					
DAD-01	Decreasing	Decreasing	Decreasing	No	Well located along eastern margin of abatement plan area. Nitrate has been below the standard since September 2024. Chloride and TDS are below existing conditions.
DAD-02	Decreasing	Increasing	Increasing	No	Well located to the south-southeast of the abatement area. Nitrate has been below the standard since 2019. Chloride and TDS are below existing conditions.
DAD-11	Increasing	Increasing	Increasing	No	Vertical delineation well. Nitrate is above the standard. Chloride and TDS are below existing conditions.
DAD-12	Decreasing	Decreasing	Decreasing	No	Vertical delineation well. Nitrate is generally above the standard. Chloride and TDS are below existing conditions.
DAD-13	Stable	Increasing	Stable	No	Nitrate has been below the standard since September 2024. Chloride and TDS are below existing conditions. Well is located at eastern edge of abatement plan area.
DAD-14	Increasing	Increasing	Increasing	No	Nitrate is above the standard. Chloride and TDS are below existing conditions. Well located along the southern margin of the abatement area.
DAD-23	Increasing	Decreasing	Decreasing	No	Nitrate above standard. Chloride and TDS are below existing conditions. Well is located to the south-southeast of the abatement area in a housing development.
CENTRAL AREA					
Buena Vista Dairy II (DP-74)					
74-01	Increasing	Stable	Stable	Yes	Nitrate is generally above the standard. When longer time horizons are considered, nitrate shows a decreasing trend. However, this analysis only looks at the last five years. The beginning of that time period showed unusually low nitrate concentrations, which resulted in an increasing trend. Chloride and TDS are above their respective standards but below background concentrations.
74-02	Stable	Increasing	Increasing	Yes	Nitrate is generally below the standard. Chloride is above the standard but below background concentrations. TDS is above the standard and background concentration.
74-03	Stable	Stable	Stable	No	Nitrate is usually not detected. Chloride is usually below the standard and the existing condition. TDS is above the standard, but below the existing condition.
74-04	Stable	Increasing	Stable	No	Upgradient well. Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
74-05	Increasing	Stable	Increasing	Yes	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.

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Monitoring Well	Nitrate	Chloride	TDS	Located Downgradient of Lagoon	Comments
Big Sky Dairy (DP-833)					
833-02	Decreasing	Stable	Stable	No	Nitrate is above the standard, but is decreasing. Chloride and TDS are above their respective standards and existing conditions. Well is not located near margin of the abatement area.
833-03	---	---	---	---	Dry since 2011; Plugged and abandoned in 2017.
833-04	Stable	Stable	Increasing	No	Nitrate is above the standard, but is stable. Chloride and TDS are above their respective standards and background concentrations.
833-05	Decreasing	Stable	Stable	Yes	As expected, concentrations are decreasing now that lagoon has been lined. Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
833-06	Stable	Stable	Stable	No	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
833-07	Increasing	Increasing	Increasing	Yes	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
833-08	Increasing	Stable	Stable	Yes	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
833-09	Stable	Stable	Stable	Yes	As expected, analytes are generally stabilizing now that the lagoon is synthetically lined. Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
833-10	Increasing	Decreasing	Decreasing	Yes	Nitrate is below the standard. Chloride and TDS are above their respective standards and background concentrations.
Sunset/Desert Land Dairy (DP-257)					
257-01	Stable	Stable	Stable	Yes	Nitrate concentrations are above the standard but are stable. Chloride and TDS are above their respective standards and background concentrations.
257-02	Decreasing	Stable	Decreasing	No	Nitrate has been below the standard since 2023. Chloride and TDS are above their respective standards and background concentrations. Well is downgradient of abatement area.
257-03	Stable	Stable	Decreasing	---	Nitrate concentrations are currently below reporting limits. Chloride and TDS are generally above their respective standards but below background concentrations.
Las Cruces Community Farms (Former McAnally Enterprises)					
MW-4	Decreasing	Stable	Stable	No	Well is downgradient of central area. Nitrate is generally below reporting limits. Chloride and TDS are above their respective standards and background concentrations.
Abatement Plan Monitor Wells					
DAD-03	---	Stable	Stable	No	Nitrate is below reporting limits, and therefore the concentration trend couldn't be analyzed. Chloride is above the standard and existing conditions. TDS is below existing conditions but above the standard.
DAD-04	Stable	Increasing	Increasing	No	Nitrate below standard. Chloride and TDS are above existing conditions.
DAD-05	---	Stable	Decreasing	No	Nitrate is generally below reporting limits, and therefore couldn't be analyzed. Chloride and TDS fluctuate above and below the standard and are below existing conditions. Well upgradient of abatement area.
DAD-06	---	---	---	---	Dry since 2013; Plugged and abandoned in 2022.
DAD-06R	Increasing	Stable	Stable	No	Nitrate is above the standard. Chloride and TDS are below their respective standards and existing conditions. Well is located at the eastern boundary of the abatement area.
DAD-07	Increasing	Increasing	Increasing	No	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations. Well near western boundary.
DAD-08	Decreasing	Decreasing	Decreasing	No	Adjacent irrigation well has not been in use for several years. It is expected that concentrations will continue to decrease. Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-15	Increasing	Increasing	Increasing	No	Chloride and TDS are above their respective standards and background concentrations. Nitrate is above the standard. Well is located at western margin of abatement area.
DAD-16	---	Decreasing	Decreasing	No	Nitrate is generally below reporting limits, and therefore the concentration trend couldn't be analyzed. Chloride and TDS are above their respective standards and background concentrations. Well is at eastern margin of abatement area.
DAD-17	Stable	Stable	Stable	No	Nitrate is below the standard. Chloride and TDS are below their respective standards and background concentrations. Well is south of abatement area boundary.
DAD-18	Increasing	Stable	Stable	No	Vertical delineation well. Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-19	Stable	Increasing	Increasing	No	Vertical delineation well. Chloride and TDS are above their respective standards and background concentrations. Nitrate is above the standard.
DAD-24	Increasing	Increasing	Increasing	No	Vertical delineation well. Nitrate is below the standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-25	Increasing	Increasing	Increasing	No	Nitrate is generally below the standard. Chloride and TDS are generally above their respective standards but below background concentrations. Well is likely completed in perched aquifer.

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Monitoring Well	Nitrate	Chloride	TDS	Located Downgradient of Lagoon	Comments
SOUTHERN AREA - PERCHED AQUIFER					
Del Oro Dairy (DP-692)					
692-01	---	---	---	---	Plugged and Abandoned in 2015.
692-02	Stable	Increasing	Increasing	No	Nitrate is generally above the standard, but has been below the standard for the last three quarters. Chloride and TDS are above their respective standards but below background concentrations. This well is located on the downgradient edge of abatement area.
692-03	---	---	---	---	Plugged and abandoned in 2010.
692-04	---	---	---	---	Dry since August 2022.
Abatement Plan Monitor Wells					
DAD-09	Increasing	Stable	Stable	No	Nitrate is above standard. Chloride and TDS are generally above their respective standards and background concentrations.
DAD-20	Stable	Decreasing	Stable	---	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-21	Decreasing	Decreasing	Decreasing	No	Nitrate is above the standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-22	Increasing	Stable	Stable	No	Nitrate is above standard. Chloride and TDS are above their respective standards and background concentrations.
DAD-26	Decreasing	Stable	Stable	No	Nitrate has been below the standard since December 2024. Chloride and TDS are above their respective standards and background concentrations.
DAD-27	Stable	Stable	Stable	No	Nitrate is below the standard. Chloride and TDS are above their respective standards and background concentrations.
SOUTHERN AREA - REGIONAL AQUIFER					
Del Oro Dairy (DP-692)					
692-05	Stable	Stable	Stable	Yes	Nitrate is above the standard, but stable. Chloride and TDS are above their respective standards and background concentrations.
692-06	Increasing	Increasing	Increasing	Yes	Nitrate is below the standard. Chloride and TDS are above their respective standards and background concentrations.
692-07	Stable	Stable	Stable	Yes	Nitrate is below the standard. Chloride and TDS are above their respective standards and background concentrations.
692-08	Stable	Stable	Stable	No	Upgradient well. Nitrate is generally below the standard. Chloride and TDS are above their respective standards but generally below background concentrations.
692-09	Stable	Stable	Stable	No	Nitrate is below the standard. Chloride is above the standard and existing conditions.TDS is above the standard but below existing conditions.
692-10	Stable	Increasing	Stable	No	Installed in December 2022. Nitrate is often below reporting limits. Chloride and TDS are above their respective standards and background concentrations.
Abatement Plan Monitor Wells					
DAD-10	Decreasing	Stable	Stable	No	Nitrate concentrations are below the standard. Chloride is above the standard and existing conditions. TDS is above the standard but below existing conditions.

Notes:
--- = Analysis not performed.
DP = Discharge plan
LAA = Land application area
NMAC = New Mexico Administrative Code
TDS = Total dissolved solids