

Region 6 Compliance Assurance and Enforcement Division

INSPECTION REPORT

Inspection Date(s):	06/07/2022		
Media:	Water		
Regulatory Program(s)	NPDES		
Company Name:	Bright Start Dairy		
Facility Name:	Bright Start Dairy		
Facility Physical Location:	13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
(city, state, zip code)	Mesquite		
Mailing address:	13520 S, Stern Dr		
(city, state, zip code)	Mesquite		
County/Parish:	Dona Ana County		
Facility Contact:	Ms. Linda Armstrong	Office Manager	
	575-993-0279 lindaarmstrong@zianet.com		
FRS Number:	N/A		
Identification/Permit Number:	NMG010033		
Media Number:	N/A		
NAICS:	112120		
SIC:	0241		
Personnel participating in inspection:			
Jack Arias	EPA Region-6 ECD-WA	Inspector	214-665-8164
Lucas Bomar	EPA Region-6 ECD-WA	Inspector	214-665-2182
Juan Ibarra	EPA Region-6 ECD-WA	Inspector	214-665-8493
EPA Lead Inspector Signature/Date	J a c k A r i a s 		/07/2022
	{Jack Arias}		Date
Supervisor Signature/Date	ESTEBAN HERRERA Digitally signed by ESTEBAN HERRERA Date: 2022.08.01 11:42:21 -05'00'		
	{Esteban Herrera}		Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspectors, Jack Arias, Lucas Bomar, and Juan Ibarra, arrived at the Bright Start Dairy at 12:00 PM on June 7, 2022, for an announced inspection. We met with the facility Environmental Consultant, Linda Armstrong at the opening conference. We presented our credentials to Ms. Armstrong and informed her that this was an EPA inspection to determine the facility's compliance with the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) Concentrated Animal Feeding Operation (CAFO) regulations. The scope of the inspection included a compliance evaluation of the facility's site operations, lagoon maintenance, nutrient management plan, and record keeping requirements of their permit. Following the opening conference, Ms. Armstrong accompanied us for the entirety of the inspection and gave us a tour of the site in a company vehicle. The Closing Conference was held with Ms. Armstrong where we informed her of the results of the inspection and Areas of Concern.

FACILITY DESCRIPTION

Bright Start Dairy is a permitted facility that confines an average of approximately 2780 milking and dry cows and 106 heifers intended for milking cow replacement. The cattle were kept in both open and covered pens. Hay and other feed commodities were partially covered. Pens were surrounded by a metal fence and had areas covered with a metal roof. The drainage system from the milking parlor, pens, and feed lanes discharged onto the ground, wastewater ditches, and concrete separators (See Photo Nos. 1 – 24 in Appendix 1).

Bright Start Dairy consisted of two synthetically lined process wastewater lagoons or impoundments (#1 and #2), two unlined concrete separators (separator #1 and #2), and one screen separator that formed part of the watershed retention control structures (RCS). The lined lagoons received process wastewater and runoff from the cow milking parlor, pens and feed lanes. The unlined concrete separators receive stormwater runoff from the facility, pens, and large manure storage piles located near the pens (See Photo Nos. 11 – 18 in Appendix 1).

Additionally, the lined lagoons do not have screen separators that separate the solid manure waste from liquid manure waste (wastewater). The calculated volume of runoff from a 25-yr/24-hr rain event is 4" for this area. Bright Start Dairy has an evaporative system and does not provide the liquid manure waste to adjacent farm owners. Also, Bright Start Dairy provides solid manure waste to adjacent farm owners. The farmers mix the solid waste with soil and land apply it.

Section II - OBSERVATIONS

Expose Hay

We observed that hay was stored without cover barn area approximately 10 feet from a ditch system and next to impoundment #1 (See Photo Nos. 1 – 3 in Appendix 1).

Improper Berms

We observed that at the NW and NS sides of the facility, berms were not properly designed, constructed, operated, and maintained to contain the 25-yr/24-hr rain event of 4". The slope of the berms at pens were insufficient and almost at the same level of the slope of the pen's surface. Any wastewater or runoff would come in at these locations and discharge to open areas and ditch systems located near the NW and NS areas. We observed erosion, manure, marks of precipitation, run off and marks of accumulation of water at these locations. Areas should be regraded and level to allow proper runoff (See Photo Nos. 1-10 in Appendix 1).

Manure Piles

We observed large amounts and accumulation of manure solids inside pens. Manure solids should be removed, and area regraded and leveled to allow proper runoff (See Photo Nos. 9 - 10 in Appendix 1).

Retention Control Structures (RCSs)

Bright Start Dairy consisted of two synthetically lined process wastewater lagoons or impoundments (#1 and #2) that formed part of the watershed retention control structures (RCS). Impoundment #1 showed large amounts of manure solids (approximately 40% capacity) inside its perimeter. Also, we did not observe a pool depth marker and observed a discharge into impoundment #1 of manure solids and wastewater coming from pens and concrete separators. (See Photo Nos. 11 - 13 in Appendix 1).

Additionally, we observed that the impoundment #1 did not have a screen separator system that could potentially reduce accumulation of manure solids inside the perimeter of the impoundment #1. This could potentially affect the integrity of impoundment #1 and its capacity to contain wastewater and runoff from the cow milking parlor, pens, feed lanes, and concrete separators. Impoundment #1 is located at the northwest corner of the facility and impoundment #2 near NS side of facility (See Photo Nos. 11 – 13 in Appendix 1).

Manure Concrete Separators

Bright Start Dairy has consisted of two non-lined Manure concrete separators (separator #1 close to impoundment #1 and separator #2 close to pens and milking parlor areas) that separate solid waste from liquid waste and direct wastewater and run off to impoundment #1.

Concrete separator # 1 and #2 showed large amounts and accumulation of manure solids inside the perimeter of the separators. We observed manure solids blocking aggressively the flow of wastewater coming from milking parlor, pens, and feed lanes into impoundment #1. Also, we observed overflows and accumulation of manure solids outside of the concrete separators, near the NW ditch, and stored outside of the impoundment #1. (See Photo Nos. 14 - 18 in Appendix 1).

Additionally, we observed an undefined flowpath of a ditch that transport wastewater coming from milking parlor, pens, feed lanes, and concrete separator #2. Also, we found that 100% of the wastewater from milking parlor, pens, feed lanes, concrete separator #2, and ditches discharging into concrete separator #1. This undefined discharge system is producing large accumulation of manure and blocking flow of wastewater into impoundment #1. Proper maintenance, reinforcement of walls of separators, removal of sediments, and improvement of discharge systems reduce overflows and accumulation of sediments inside and outside the perimeter of concrete separators and impoundment #1 (See Photo No. 19 in Appendix 1).

Manure Trench

We observed a large undefined trench with a significant amount of solids buildup inside the perimeter of the trench. Also, we observed flow paths of manure solids coming from pens to the trench (See Photo Nos. 20 - 21 in Appendix 1).

The transportation and accumulation of manure solids in this trench system is producing inappropriate accumulation of manure and discharge of wastewater that is directly affecting the discharge of wastewater and accumulation of sediment in concrete separator #1 and impoundment #1. Proper planing, maintenance, removal of sediments, and improvement of discharge system reduce accumulation of sediments inside the perimeter of concrete separators and impoundment #1 (See Photo Nos. 20 - 21 in Appendix 1).

Screen Separator

Bright Start Dairy has consisted of one screen separator system that formed part of the watershed retention control structures (RCS) for the milking parlor area. We observed accumulation of manure solids around the screen separator system that could lead to overflows, obstructions, and improper discharge of wastewater from milking parlor area (See Photo No. 22 in Appendix 1).

Milking Parlor Area

We observed pools and flowpath areas around the milking parlor system. Also, we observed (next to the entrance of the milking parlor area and a storm drain system) 7 barrels (each 60-gallon capacity) containing Advance Corrosive Acid and Liquid Santex Soups 5 feet from a storm water system and without a proper containment area. The lack of a containment system will lead to improper overflows and discharges (See Photo Nos. 23 - 24 in Appendix 1).

Mortality Management

The removal of mortalities was done by County Services rendering.

Section III – AREAS OF CONCERN

The following Areas of Concern were discussed with Ms. Linda Armstrong during the closing conference:

1. Hay was stored without covered barn area next to ditch and impoundment #1.
2. At the NW and NS sides of the facility, berms were not properly designed, constructed, operated, and maintained to contain the runoff from a 25-yr/24-hr rain event of 4”.
3. Large accumulation of manure solids inside pens.
4. Impoundment #1 showed large amounts of manure solids (40%) inside its perimeter.
5. Impoundment #1 did not have a screen separator system.
6. Concrete separator # 1 and #2 contained large amounts and accumulation of manure solids (manure and debris) inside their perimeters.
7. Accumulation of manure solids in concrete separators systems are blocking the flow of wastewater from milking parlor, pens, and feed lanes to impoundment #1.

8. Improper overflows and accumulation of manure solids outside and inside of concrete separators #1 and #2.
9. Improper discharge system of wastewater into concrete separator #1.
10. Improve maintenance, reinforcement of walls of separators, removal of manure solids, and discharge system.
11. Improper undefined trench was built near concrete separator #1.
12. Improper transportation and accumulation of manure solids through undefined trench system.
13. Potential accumulation of manure solids around the screen separator system that could lead to overflows, obstructions, and improper discharge of wastewater.
14. Pools and flowpath areas around the milking parlor system.
15. Barrels (each 60-gallon capacity) containing Advance Corrosive Acid and Liquid Santex Soups without a proper containment area.

Section IV – FOLLOW UP

Ms. Linda Armstrong will provide a copy of current permit, NPDES annual report, and other information connected with areas of concern.

Section V – LIST OF APPENDICES

Appendix 1 – Photo Log – 24 photos taken 06/07/2022

Appendix 2 – EJ Screen Analysis and Topo/Aerial/Hydro pre-evaluation maps CAFO Facilities in NM

Appendix 1

Photograph Log and

Significant Photo Locations



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0871.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.158649, -106.664710

Orientation: NW

Map Datum: WGS-84

Time of Photo: 1:34 PM

Photographer: Jack Arias

Description: This image shows part of the dairy facility confined and open pens, piles of manure, low berms, rain roof and potential run off flowpath.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 2

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0872.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.158649, -106.664710

Orientation: NW

Map Datum: WGS-84

Time of Photo: 1:34 PM

Photographer: Jack Arias

Description: This image shows part of the dairy facility confined and open pens, piles of manure, low berms, ditch, rain roof and potential run off flowpath.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 3

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0868.JPG
Date of Photograph: 06/07/2022
Latitude and Longitud: 32.157421, -106.659281
Orientation: NS
Map Datum: WGS-84
Time of Photo: 1:28 PM
Photographer: Jack Arias
Description: This image shows stored hay without covered barn area approximately 10 feet from the ditch.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 4

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0885.JPG
Date of Photograph: 08/07/2022
Latitude and Longitude: 32.156890, -106.668190
Orientation: W
Map Datum: WGS-84
Time of Photo: 1:59 PM
Photographer: Jack Arias
Description: This image shows stored hay without covered barn area approximately 100 feet from impoundment # 1.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 5

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0869.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.157421, -106.659281
Orientation: NW
Map Datum: WGS-84
Time of Photo: 1:40 PM
Photographer: Jack Arias
Description: This image shows a ditch approximately 10 feet from stored hay and 80 feet from pens.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 6

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0875.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.157803, -106.668447
Orientation: SW
Map Datum: WGS-84
Time of Photo: 12:52 PM
Photographer: Jack Arias
Description:

This image shows a potential flowpath of wastewater or runoff coming from pens and comingle at this location. We observed erosion, manure, marks of precipitation, run off and marks of accumulation of water at this point.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 7

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0878.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.157803, -106.668447

Orientation: NW

Map Datum: WGS-84

Time of Photo: 1:47 PM

Photographer: Jack Arias

Description: This image shows an open area where wastewater or runoff could come in and potentially discharge to a mesquite drain near the facility.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 8

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0877.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.157803, -106.668447

Orientation: NW

Map Datum: WGS-84

Time of Photo: 1:47 PM

Photographer: Jack Arias

Description: This image shows an open area where wastewater or runoff could come in and potentially discharge to mesquite drain near the facility.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 9

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0897.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156970, -106.664432

Orientation: SW

Map Datum: WGS-84

Time of Photo: 2:23 PM

Photographer: Jack Arias

Description: This image shows large amounts and accumulation of manure and debris inside pens. Manure solids should be removed, and area regraded and leveled to allow proper runoff.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 10

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0898.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156970, -106.664432
Orientation: SW
Map Datum: WGS-84
Time of Photo: 2:23 PM
Photographer: Jack Arias
Description:

This image shows large amounts of manure and debris inside pens. Manure solids should be removed, and area regraded and leveled to allow proper runoff.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 11

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0880.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156855, -106.665828
Orientation: NW
Map Datum: WGS-84
Time of Photo: 1:50 PM
Photographer: Jack Arias
Description:

This image shows impoundment #1 containing large amounts of Manure solids (manure) inside its perimeter. This could impact the integrity of impoundment #1 and its capacity to contain wastewater and runoff from the cow milking parlor, pens, feed lanes, and concrete separators.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 12

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0886.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156855, -106.665828

Orientation: NW

Map Datum: WGS-84

Time of Photo: 2:00 PM

Photographer: Jack Arias

Description: This image shows a discharge into impoundment #1 of sediments and wastewater coming from pens and concrete separators.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 13

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0899.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156970, -106.664432

Orientation: S

Map Datum: WGS-84

Time of Photo: 2:23 PM

Photographer: Jack Arias

Description: This image shows a lined process wastewater lagoon/impoundment #2 that formed part of the watershed retention control structures (RCS).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 14

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0883.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156890, -106.668190
Orientation: N
Map Datum: WGS-84
Time of Photo: 1:56 PM
Photographer: Jack Arias
Description:

This image shows large amounts and accumulation of Manure solids inside the perimeter of concrete separators #1. We observed sediments blocking the flow of wastewater from coming from milking parlor, pens, feed lanes, and pens into impoundment #1.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 15

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0884.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156890, -106.668190
Orientation: N
Map Datum: WGS-84
Time of Photo: 1:56 PM
Photographer: Jack Arias
Description:

This image shows large amounts and accumulation of manure solids inside the perimeter of concrete separators #1. We observed manure solids blocking the flow of wastewater from coming from milking parlor, pens, feed lanes, and pens into impoundment #1.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 16

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0885.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156890, -106.668190
Orientation: N
Map Datum: WGS-84
Time of Photo: 1:59 PM
Photographer: Jack Arias
Description:

This image shows overflows and accumulation of manure solids outside of the concrete separator #1. Sediments are near the NW ditch and been stored outside of the impoundment #1.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 17

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0907.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156970, -106.664432
Orientation: N
Map Datum: WGS-84
Time of Photo: 2:42 PM
Photographer: Jack Arias
Description: This image shows overflows and accumulation of manure solids inside and outside of the concrete separator #2.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 18

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0910.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156970, -106.664432
Orientation: N
Map Datum: WGS-84
Time of Photo: 2:45 PM
Photographer: Jack Arias
Description:

This image shows wastewater coming from accumulation of manure solids in separator #2. This wastewater will discharge in concrete separator #1 (which showed evidence of overflows of manure solids inside and outside its perimeter).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 19

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0893.JPG
Date of Photograph: 06/07/2022
Latitude and Longitud: 32.156970, -106.664432
Orientation: N
Map Datum: WGS-84
Time of Photo: 2:15 PM
Photographer: Jack Arias
Description:

This image shows an undefined flowpath of a ditch that transport wastewater coming from milking parlor, pens, feed lanes, and concrete separator #2.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 20

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0891.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156940, -106.667551

Orientation: NW

Map Datum: WGS-84

Time of Photo: 2:07 PM

Photographer: Jack Arias

Description: This image shows a large undefined trench with large amounts manure solids (manure and debris) inside the perimeter of the trench. Also, we observed flow paths of manure solids coming from pens to the trench.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 21

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0895.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156940, -106.667551

Orientation: NW

Map Datum: WGS-84

Time of Photo: 2:16 PM

Photographer: Jack Arias

Description: This image shows a large undefined trench with large amounts of sediments (manure and debris) inside the perimeter of the trench. Also, we observed flow paths of sediments coming from pens to the trench.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 22

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0915.JPG

Date of Photograph: 06/07/2022

Latitude and Longitude: 32.156597, -106.659798

Orientation: NW

Map Datum: WGS-84

Time of Photo: 2:53 PM

Photographer: Jack Arias

Description: This image shows potential accumulation of sediments around the screen separator system that could lead to overflows, obstructions, and improper discharge of wastewater from milking parlor area.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 23

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0920.JPG
Date of Photograph: 06/07/2022
Latitude and Longitude: 32.156597, -106.659798
Orientation: S
Map Datum: WGS-84
Time of Photo: 3:01 PM
Photographer: Jack Arias
Description: This image shows pools and flowpath areas around the milking parlor system.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 24

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)		
City: Mesquite	County: Anthony	State: New Mexico



Photograph File Name: DSCN0928.JPG
Date of Photograph: 06/07/2022
Latitude and Longitud: 32.156597, -106.659798
Orientation: S
Map Datum: WGS-84
Time of Photo: 3:09 PM
Photographer: Jack Arias
Description:

This image shows 7 barrels (each 60-gallon capacity) containing Advance Corrosive Acid and Liquid Santex Soups to 5 feet of a storm water system and without a proper containment area. The lack of a containment system will lead to improper overflows and discharges.

Appendix 2

Photograph Log and

EJ Screen Analysis and Topo/Aerial/Hydro pre-evaluation Maps
CAFO Facilities in NM



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

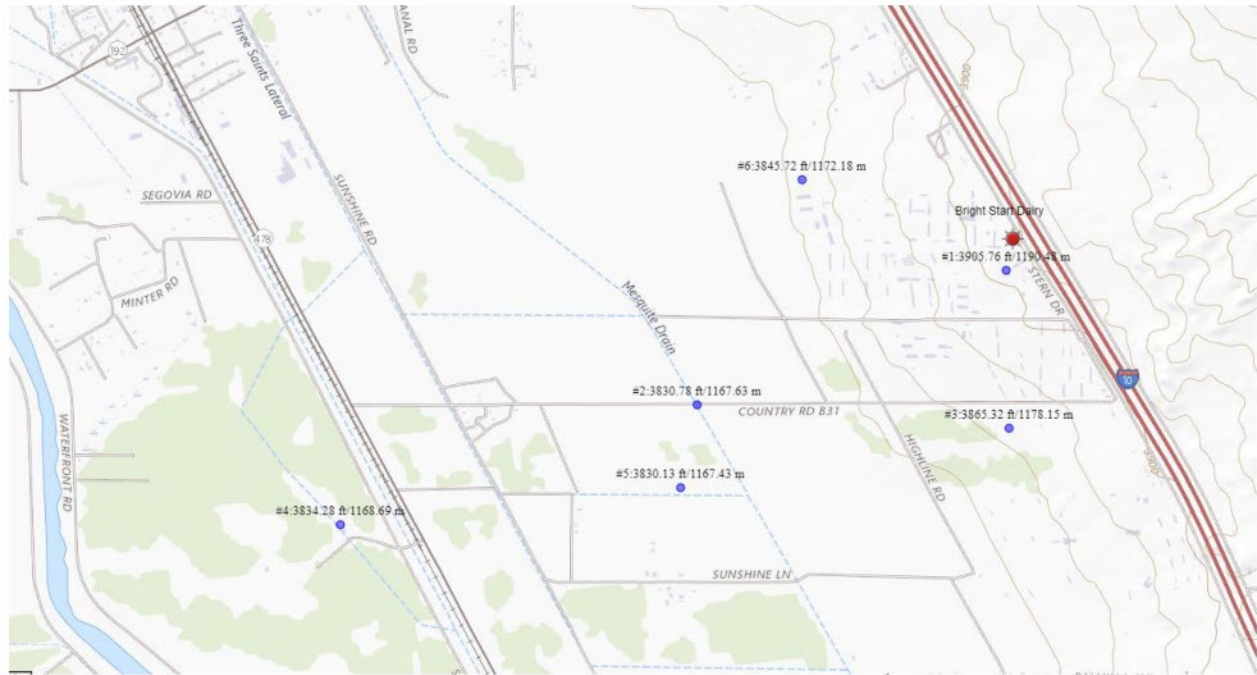
Photo No. 2

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)

City: Mesquite

County: Anthony

State: New Mexico





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

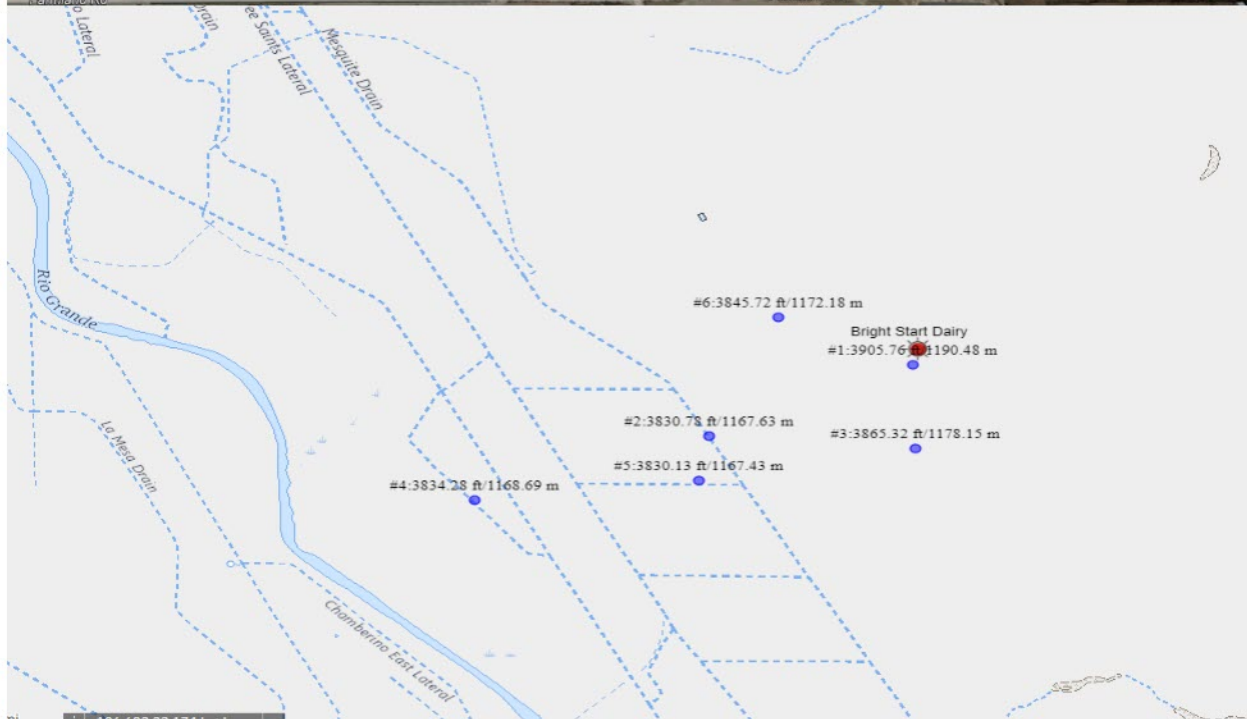
Photo No. 3

Location: 13520 S, Stern Dr, Mesquite, NM 88048 (32.15709, -106.65863)

City: Mesquite

County: Anthony

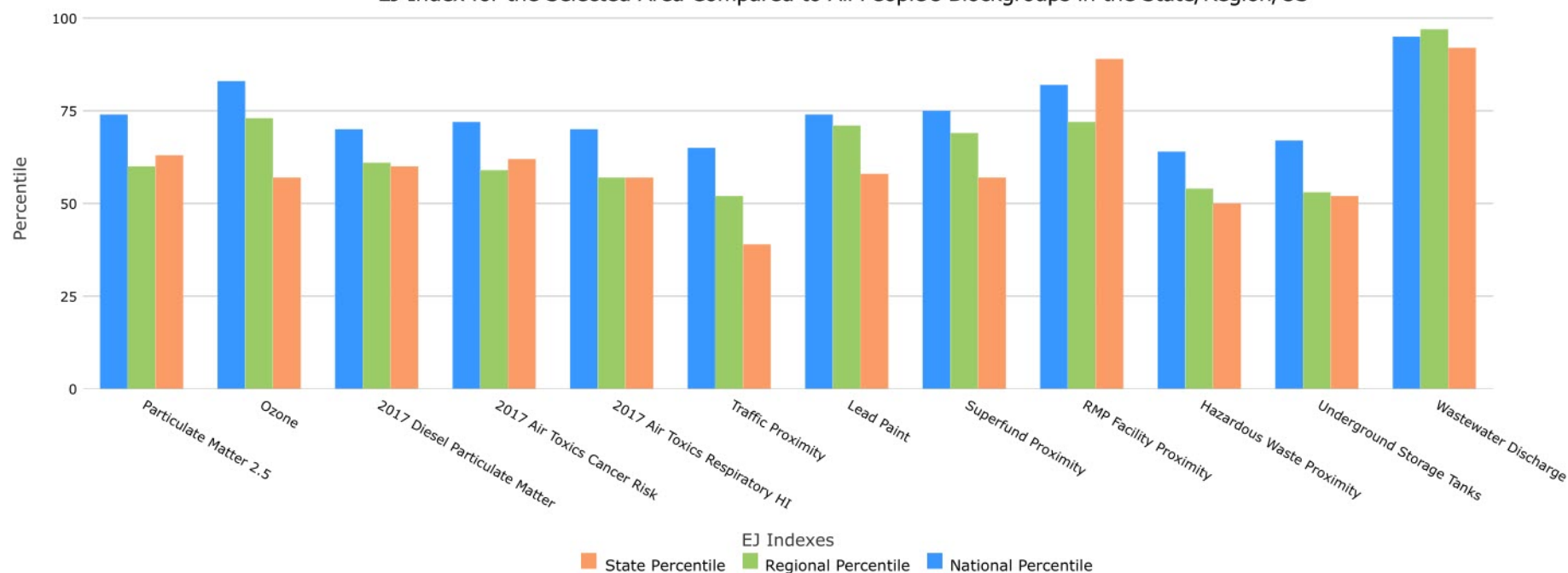
State: New Mexico



EJScreen Report (Version 2.0)
1 mile Ring Centered at 32.156141,-106.658149
NEW MEXICO, EPA Region 6
Approximate Population: 95
Input Area (sq. miles): 3.14
 Bright Start Dairy

Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	63	60	74
EJ Index for Ozone	57	73	83
EJ Index for 2017 Diesel Particulate Matter*	60	61	70
EJ Index for 2017 Air Toxics Cancer Risk*	62	59	72
EJ Index for 2017 Air Toxics Respiratory HI*	57	57	70
EJ Index for Traffic Proximity	39	52	65
EJ Index for Lead Paint	58	71	74
EJ Index for Superfund Proximity	57	69	75
EJ Index for RMP Facility Proximity	89	72	82
EJ Index for Hazardous Waste Proximity	50	54	64
EJ Index for Underground Storage Tanks	52	53	67
EJ Index for Wastewater Discharge	92	97	95

EJ Index for the Selected Area Compared to All People's Blockgroups in the State/Region/US

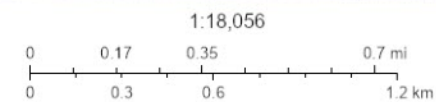


This report shows the values for environmental and demographic indicators and EJScreen indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports.



June 2, 2022

- ✚ Bright Start Dairy
- Urbanized Areas



Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar, EPA OEI

Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

Selected Variables	Value	State		EPA Region		USA	
		Avg.	%tile	Avg.	%tile	Avg.	%tile
Pollution and Sources							
Particulate Matter 2.5 (µg/m³)	6.4	5.58	87	9.32	4	8.74	6
Ozone (ppb)	55.9	56.2	35	41.1	96	42.6	93
2017 Diesel Particulate Matter* (µg/m³)	0.134	0.208	46	0.219	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	20	20	78	32	<50th	29	<50th
2017 Air Toxics Respiratory HI*	0.2	0.24	60	0.37	<50th	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	40	480	16	470	19	710	20
Lead Paint (% Pre-1960 Housing)	0.11	0.18	54	0.16	60	0.28	41
Superfund Proximity (site count/km distance)	0.051	0.13	47	0.08	58	0.13	42
RMP Facility Proximity (facility count/km distance)	0.73	0.25	90	0.83	64	0.75	68
Hazardous Waste Proximity (facility count/km distance)	0.082	0.82	31	0.8	18	2.2	13
Underground Storage Tanks (count/km²)	0.32	2.5	42	2	30	3.9	31
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.6	4.6	89	0.5	96	12	91
Socioeconomic Indicators							
Demographic Index	66%	52%	72	44%	79	36%	86
People of Color	85%	63%	79	52%	79	40%	86
Low Income	47%	41%	61	36%	69	31%	77
Unemployment Rate	11%	7%	81	5%	89	5%	88
Linguistically Isolated	38%	5%	99	6%	97	5%	97
Less Than High School Education	48%	14%	97	15%	96	12%	98
Under Age 5	12%	6%	94	7%	91	6%	94
Over Age 64	15%	17%	52	13%	65	16%	55

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>. (<https://www.epa.gov/haps/air-toxics-data-update>)

For additional information, see: www.epa.gov/environmentaljustice (<https://www.epa.gov/environmentaljustice>)

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.