

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Dylan Fuge, Division Director (Acting)
Oil Conservation Division



BY ELECTRONIC MAIL ONLY

May 26, 2023

Jennifer Deal
Harvest Midstream Company—Four Corners
1755 Arroyo Dr.
Bloomfield, NM 87413
jdeal@harvestmidstream.com

**RE: Harvest Midstream Company - Notice of an Administratively Complete Discharge
Permit Application for Val Verde Gas Plant**

Dear Ms. Deal:

The New Mexico Energy, Minerals and Natural Resource Department's Oil Conservation Division (OCD) has reviewed your amended discharge permit application, dated May 15, 2023, for Harvest Midstream Company's (Harvest), Val Verde Gas Plant. OCD has determined that the amended discharge permit application is administratively complete.

Given OCD's determination, Harvest must provide public notice within 30 days of receipt of this letter (i.e., June 25, 2023) in accordance with the requirements of 20.6.2.3108(B) NMAC to the general public in the locale of the Gas Plant by each of the methods listed below:

1. Prominently posting a synopsis of the public notice at least 2 feet by 3 feet in size, in English and in Spanish, at the Val Verde Gas Plant located at 119 County Road 4900, Bloomfield, NM, 87413 and at the Bloomfield Public Library located at 333 S. 1st Street, Bloomfield, New Mexico, 87413 for 30 days;
2. Providing written notice of the discharge by mail or electronic mail, to owners of record of all properties within a 1/3 mile distance from the boundary of the property where the discharge site is located; if there are no properties other than properties owned by the discharger within a 1/3 mile distance from the boundary of property where the discharge site is located, Harvest shall provide notice to owners of record of the next nearest adjacent properties not owned by the discharger;
3. Providing notice by certified mail, return receipt requested, to the owner of the discharge site if the applicant is not the owner; and

4. Publishing a synopsis of the notice in English and in Spanish, in a display ad at least three inches by four inches **not** in the classified or legal advertisements section, in the Farmington Daily Times. Note, the public notice contained in the application appears to contain an error. The provided notice lists the address of the gas plant as "119 Country Road 4900." The actual published public notice should correct this error.

As per 20.6.2.3108(F) NMAC, the notice must also include the address and phone number within OCD by which interested persons may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notices and that OCD will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. The following OCD contact information must be included in the notice:

Shelly Wells – Environmental Specialist Advanced
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
(505) 469-7520
Shelly.Wells@emnrd.nm.gov

Within 15-days of completion of the public notice requirements in 20.6.2.3108(B) NMAC, Harvest must submit to the OCD proof of the notice, including affidavit of mailing(s) and the list of property owner(s), proof of publication, and an affidavit of posting, as appropriate.

Also, as part of the discharge permit application, Harvest was required to submit a Closure/Post Closure Plan for OCD approval. OCD has reviewed this plan and hereby approves the Closure/Post Closure Plan. The financial assurance (FA) associated with this plan is \$515,050. The FA must be on OCD-prescribed forms, or forms otherwise acceptable to the OCD, payable to the OCD. Bond forms can be found at the bottom of OCD's Forms Page located at <https://www.emnrd.nm.gov/ocd/ocd-forms/>. The FA is due to the OCD within 30-days of email receipt of this letter (i.e., June 25, 2023).

If you have any questions, please do not hesitate to contact me by phone at (505) 469-7520 or by email at Shelly.Wells@emnrd.nm.gov. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this process.

Regards,

Shelly Wells

Shelly Wells
Environmental Specialist- Advanced

GROUNDWATER DISCHARGE PERMIT APPLICATION AMENDMENTS

Prepared for:

Harvest Midstream Company – Four Corners
Val Verde Gas Plant
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Prepared by:



Altamira US, LLC
525 Central Park Drive, Ste. 500
Oklahoma City, Oklahoma 73105
Phone: (405) 604-3253

March 2023

Harvest Midstream Company – Four Corners
Permit Application Amendments – Val Verde Plant

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02	Stormwater Discharge Plan
03	Financial Assurance and Closure
04	Public Notice
05	SPCC Plan
06	Initial Groundwater Discharge Permit Application

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1.0 APPLICATION AMENDMENTS

1.1 Site Coordinates

The site coordinates for the Val Verde Gas Plant are: 36.731645, -107.957264.

The legal location is: in San Juan County, New Mexico, within the NE ¼ of Section 14, T29N, R11W approximately 2.5 miles east of Bloomfield

1.2 TDS Concentration of the Groundwater

The level of total dissolved solids (TDS) in water provides a general indication of water quality in the area. The maximum concentration level set by the US EPA for drinking water is 500 mg/l, but much of the groundwater in New Mexico has elevated TDS. According to New Mexico Bureau of Geology and Mineral Resources, values over 10,000 mg/l are considered brackish. Per 20.6.2.3106(D)(3) NMAC, the TDS concentration of the groundwater most likely to be affected by a discharge needs to be included in the groundwater discharge permit application. In a study performed by the New Mexico Bureau of Geology and Mineral Resources of fresh and brackish water quality across each basin, data from the San Juan Basin demonstrated evidence of higher TDS values at greater depths. Basin-wide TDS values are high, with a mean of >2300 mg/l suggesting there could be significant resources of brackish water at depth toward the center of the San Juan Basin. The San Juan Basin's Water Quality is listed in the table below with TDS concentrations.

	Specific Cond. (µS/cm)	TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	HCO ₃ (mg/l)	SO ₄ (mg/l)	Cl (mg/l)	F (mg/l)	As (mg/l)	U (mg/l)	Well depth
Maximum	196,078	184,227	5,902	2,046	46,700	784	4,970	107,949	1.9	0.001	0.001	5,713
Minimum	602	364	48.9	32.6	5.1	56	14.3	10	0.1	0.001	0.001	327
Mean	64,412.8	54,046.5	1,555.6	737.5	15,021.1	338.7	2,204	29,959.8	0.69	0.001	0.001	3,285
Median	39,000	26,900	1,240	463.4	2,357.5	271	1,862.9	13,800	0.5	0.001	0.001	3,250

1.3 Waste Exemption Status

Per comments on the initial groundwater discharge permit application, Table 1b listed the waste status of Solid Waste (Trash) and Domestic Sewage as exempt. OCD recommended it be listed as Non-Exempt. The initial listing as non-exempt status was referring to the potential exemption from RCRA Subtitle C status and Municipal Solid Waste (MSW), such as regular facility trash and refuse, does not fall under a definition that requires profiling or testing. Due to the fact the OCD

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does not have jurisdiction over these types of wastes, and are not in reference to this type of permitting, they have been removed from Tables 1a. and 1b. The updated tables are as follows:

TABLE 1a.
SOURCE, QUANTITY, AND QUALITY OF EFFLUENT AND WASTE SOLIDS
VAL VERDE GAS PLANT

Process Fluid/Waste	Source	Quantity (Ranges)	Additives
Used Oil	Small leaks from process equipment	500 gal/year	None
Amine	Small leaks from process equipment	None	None
Glycol	Small leaks from process equipment	None	None
Stormwater	Rainfall	<10"/year	None
Exempt Wastewater	Gas plant dehydration waste, stormwater	1,000 bbls/month	None
Used Oil Filters	Equipment Maintenance	50-75 per quarter	None
Used Amine Filters	Equipment Maintenance	100-150 per quarter	None
Used Glycol Filters	Equipment Maintenance	20-40 per quarter	None
Used Charcoal Filters	Amine Filtration System	12 cu/yds per month	None
Spill Residue	Incidental Spills	Incident Dependent	Incident Dependent
Sorbent Material and Rags	Incidental Spills/Leaks, Equipment Wipe-Down	Incident Dependent	None

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TABLE 1b.
SOURCE, WASTE STATUS, AND PROCESS OF EFFLUENT AND WASTE SOLIDS
VAL VERDE GAS PLANT

Process Fluid/Waste	NM Waste Status	Analytical Process	Toxic Pollutants
Used Oil	Non-Exempt	Profiled, Recycled	None
Amine	Exempt	Not Required	None
Glycol	Exempt	Not Required	None
Stormwater	Exempt	Not Required	None
Exempt Wastewater	Exempt	Profiled at Disposal Facility per NMOCD	None
Exempt Hydrocarbon Fluids	Exempt	Profiled at Disposal Facility per NMOCD	None
Used Oil Filters	Non-Exempt	Profiled Annually	None
Used Amine Filters	Non-Exempt	Profiled Annually	None
Used Glycol Filters	Non-Exempt	Profiled Annually	None
Used Charcoal Filters	Exempt	Profiled Annually	None
Spill Residue Non-Exempt Oil	Non-Exempt	RCRA Metals. In event of release or spill, analytical testing to be completed and Form C-138 prior to landfarming.	None
Sorbent Material and Rags	Non-Exempt	Profiled and Tested Prior to Disposal	None

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1.4 Containment/Spill Updated Information

The table below has been updated with added information regarding containment, spill prevention, and lining. At the Val Verde Gas Plant, Harvest does not currently have a condensate separation system in place. The inlet filter dumps and the VRU skids drain to the Waste Water Drain Tanks (T-5418 and T-8418) and is currently getting disposed of at Agua Moss or Basin Disposal. The site diagram has also been updated and attached with this information.

Tank Number - See Site Diagram	Storage Type	Tank Contents	Solid or Liquid	Tank Capacity Max Volume Stored	Location - See Site Diagram	Containment/Spill Prevention
1	Flow-Through process vessels	Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #4/T4422	Concrete Containment
2	Flow-Through process vessels	Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #4/T4422A	Concrete Containment
3	Above Ground Storage Tank	Glycol Storage Tank	Liquid	90 bbl	Process Train #4/T4475	Earthen Berm
4	Above Ground Storage Tank	Amine Rundown Tank	Liquid	210 bbl	Process Train #4/T4417	Earthen Berm
5	Above Ground Storage Tank	Glycol Recovery Tank	Liquid	112.5 bbl	Process Train #4/T4475A	Earthen Berm
6	Above Ground Storage Tank	DI Water Tank	Liquid	210 bbl	Process Train #5/T5415	Earthen Berm
7	Above Ground Storage Tank	Amine Make up Tank	Liquid	90 bbl	Process Train #5/T5416	Earthen Berm
8	Flow-Through process vessels	Aine Contactor Anti-Foam	Liquid	500 gallons	Process Train #5/T5422	Concrete Containment
9	Flow-Through process vessels	Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #5/T5422A	Concrete Containment
10	Above Ground Storage Tank	Glycol Storage Tank	Liquid	90 bbls	Process Train #5/T5475	Earthen Berm
11	Above Ground Storage Tank	Amine Rundown Tank	Liquid	210 bbl	Process Train #5/T5417	Earthen Berm
12	Above Ground Storage Tank	Wastewater	Liquid	500 bbl	T5418 (wastewater for Trains 4, 5, 6)	Earthen Berm
13	Flow-Through process vessels	Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #6/T6422	Concrete Containment
14	Flow-Through process vessels	Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #6/T6422A	Concrete Containment
15	Above Ground Storage Tank	Glycol Storage Tank	Liquid	90 bbl	Process Train #6/T6475	Earthen Berm
16	Above Ground Storage Tank	Amine Rundown Tank	Liquid	210 bbl	Process Train #6/T6417	Earthen Berm
17	Flow-Through process vessels	Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #7/T7422	Concrete Containment

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Tank Number - See Site Diagram	Storage Type	Tank Contents	Solid or Liquid	Tank Capacity Max Volume Stored	Location - See Site Diagram	Containment/Spill Prevention
18	Flow-Through process vessels	Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #7/T422A	Concrete Containment
19	Above Ground Storage Tank	Glycol Storage Tank	Liquid	90 bbl	Process Train #7/T7475	Earthen Berm
20	Above Ground Storage Tank	Amine Rundown Tank	Liquid	210 bbl	Process Train #7/T7417	Earthen Berm
21	Above Ground Storage Tank	Hot Water Rundown	Liquid	210 bbl	Process Train #7/T7419	Earthen Berm
22	Flow-Through process vessels	Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #8/T8422	Concrete Containment
23	Flow-Through process vessels	Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #8/T8422A	Concrete Containment
24	Above Ground Storage Tank	Glycol Storage Tank	Liquid	90 bbl	Process Train #8/T8475	Earthen Berm
25	Above Ground Storage Tank	Amine Makeup	Liquid	90 bbl	Process Train #8/T8416	Earthen Berm
26	Above Ground Storage Tank	Hot Water Rundown	Liquid	210 bbl	Process Train #8/T8419	Earthen Berm
27	Above Ground Storage Tank	Amine Rundown Tank	Liquid	210 bbl	Process Train #8/T8417	Earthen Berm
28	Above Ground Storage Tank	DI Water Tank	Liquid	210bbl	Process Train #8/T9415	Earthen Berm
29	Above Ground Storage Tank	Wastewater	Liquid	500 bbl	T8418 (wastewater for Trains 7, 8)	Earthen Berm
30	Above Ground Storage Tank	Amine Reclaim Tank 1	Liquid	400 bbl	TR-1	Earthen Berm
31	Above Ground Storage Tank	Amine Reclaim Tank 2	Liquid	400 bbl	TR-2	Earthen Berm
32	Above Ground Storage Tank	Amine Reclaim Tank 3	Liquid	400 bbl	TR-3	Earthen Berm
33	Above Ground Storage Tank	Amine Reclaim Tank 4	Liquid	110 bbl	TR-4	Earthen Berm
34	Above Ground Storage Tank	Amine Reclaim Tank 5	Liquid	110 bbl	TR-5	Earthen Berm
35	Above Ground Storage Tank	Amine Reclaimer Waste Tank	Liquid	210 bbl	TR-6	Earthen Berm
36	Drum or other container	Dow Therm J Oil Relief Tank	Liquid	90 bbl	TR-7	Concrete Containment
37	Drum or other container	Dow Therm J Oil Storage	Liquid	25 bbl	TR-8	Concrete Containment
38	Above Ground Storage Tank	Field Liquids Tank	Liquid	210 bbl	T101	Concrete Containment
39	Above Ground Storage Tank	Field Liquids Tank	Liquid	100 bbl	T102	Concrete Containment
40	Above Ground Storage Tank	Glycol Storage/Amine Storage	Liquid	300 bbl	T103	Earthen Berm
41	Above Ground Storage Tank	Diesel Storage	Liquid	300 bbl	T104	Concrete Containment
42	Above Ground Storage Tank	Used Oil	Liquid	500 gallons	T105	Concrete Containment
43	Above Ground Storage Tank	Unleaded	Liquid	300 gallons	T-105	Concrete Containment
		Anti-Foam Tanks	Liquid	5, 30 gallons	1 on each Train	Concrete Containment

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1.5 Stormwater Management

Val Verde does not currently have a Stormwater Pollution Prevention Plan; however, at the site, the facility adheres to a facility discharge plan that was previously enacted. This plan is attached in the appendices. This plan addresses all stormwater management including run-on and run-off practices.

1.6 Inspection Conduct Information

Harvest personnel will operate and maintain the facility 24 hours per day, 7 days per week, 52 weeks per year. An operator will monitor the facility for equipment malfunctions. Regular inspections will be conducted throughout the facility that includes monthly tank inspections that are driven by an Enviance task, conduction of weekly AVO inspections, and, in addition, tanks have level instruments that route back to the DCS with alarms that would provide close to 24/7 inspection for gauging. The above ground and below-grade tanks that hold produced water will be gauged regularly and monitored for leak detection.

1.7 Rule Applicability Update

Per section 7.0 of the initial Val Verde Gas Plant groundwater discharge permit application, containment berms around above ground storage tanks will be designed to contain 1-1/3 times the volume of the tank. The below-grade tanks will be constructed with a means of leak detection, and will either be double-bottomed tanks or a tank set on an impermeable pad. The updated SPCC Plan is provided in the Appendices. Significant spills and leaks are reported to the NMOCD pursuant to 19.15.29 NMAC and WQCC 20.6.2 NMAC.

1.8 Financial Assurance and Closure

The attached closure plan is summarized below with removal and financial assurance costs. Once activities at the location have completed, the facility will be closed, and the area reclaimed according to the closure plan detailed below.

Liquid Removal

All liquids will be removed from liquid containers and equipment and disposed of as required or re-used at other Harvest Midstream facilities where applicable. Chemical containments will be emptied, and their contents disposed of. Engine oils will be taken to other sites with compression

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operated by Harvest Midstream or recycled according to applicable regulations regarding the recycling of oil.

Condensate will be sold to Harvest's oil transportation and sales vendor and produced water will be transported to a third-party commercial disposal well.

Unused coolants will be taken to other sites with compression operated by Harvest Midstream, returned to the vendor from which they were obtained, or disposed of with a local disposal contractor like Safety Kleen or Clean Harbors.

The deionized water tanks will be emptied, and the water transported to another Harvest Midstream plant for use.

Unused amine will be removed from the above ground amine tanks and transported by a third-party vendor to another Harvest Midstream location to be used for other oil and gas operations. Unused glycol will be removed from the above ground glycol tank and transported by a third-party vendor to another Harvest Midstream location to be used for other oil and gas operations. Liquids in the gasoline and diesel tanks will be removed and hauled to another Harvest Midstream location for use.

Estimated cost of liquids removal activities: \$47,000

Equipment Removal

On-site equipment will be cleaned and removed from the location for disposal, recycling, or re-use, depending on the condition of the on-site equipment at the time of site closure. All equipment will be disposed of or recycled in a manner approved by the NMOCD.

Compressors and generators will be removed from location to be used at another location operated by Harvest Midstream, will be sold for re-use or disposed of as scrap metal.

All below grade tanks will be closed pursuant to NMAC 19.15.17.13 regarding the closure of below grade tanks. Tanks will be removed and reused at another location operated by Harvest Midstream or will be disposed of or recycled in accordance with NMOCD requirements.

All above ground tanks will be removed and reused at another location operated by Harvest Midstream or will be disposed of or recycled in accordance with NMOCD requirements.

Knockouts, contactors, separators and other on-site equipment will be cleaned out, and the cleanout water will be transported to a third-party commercial disposal well. The knockout, contactor or separator will then be transported to another Harvest Midstream location for re-use or will be disposed of or recycled in accordance with NMOCD requirements.

Above ground piping and meter runs will be disconnected by a third-party contractor and will be recycled as scrap metal. All underground piping will be excavated and removed by a third-party contractor, with all piping being recycled as scrap metal.

Other non-production type equipment and materials will be removed from the site, and either sold to a third party, recycled, or disposed of at the municipal landfill. Materials include buildings, piping, fencing, culverts and assorted equipment stored on location.

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Estimated cost of equipment removal activities: \$234,500

Environmental Remediation

Any areas of visual staining or soil impacts encountered and observed after all equipment has been removed will be remediated pursuant to 19.15.29 NMAC standards for the site, with confirmation samples being collected pursuant to those listed in Table I for sites over 100 feet to groundwater. Impacted soils will be removed by a third-party contractor under the direction of a third-party environmental contractor. Once impacted soils have been removed, confirmation samples will be collected pursuant to 19.15.29 NMAC Table I for sites over 50 feet to groundwater, but less than 100 feet to groundwater. Impacted soils will be transported to an NMOCD approved soil remediation facility. Currently, the only remediation facility in operation in the area is Envirotech's Landfarm #2, NMOCD permit number NM-01-0011.

Estimated cost of environmental remediation activities: \$98,700

Reclamation

After all equipment and materials have been removed, the site will be reclaimed. All gravel brought in for berms and walking areas will be removed by a third-party contractor and will be hauled to other Harvest Midstream locations for use on berms or parking areas. The site will be flattened, and contoured to match the natural drainage of the surrounding area and to prevent ponding of water on the former location of the treatment plant. Due to the site being located on private property, the area will be revegetated pursuant to landowner specifications after the site has been flattened and recontoured by a third party.

Estimated cost of reclamation activities: \$134,850

Total Estimated Costs: \$515,050

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1.9 Public Notice

Upon acceptance of the groundwater discharge permit application, Harvest will submit the attached Public Notice for the application to two specified locations per 20.6.2.3108.B(1) NMAC: the first being the local Bloomfield Public Library located at 333 S. 1st Street, Bloomfield, NM 87413 and the second is at the facility requesting the permit, Val Verde Gas Plant. Both locations will have the application available for public viewing. 'The Daily Times' is the local newspaper where Harvest will release the public notice for print.

1.10 Certification Statement

I hereby certify that the information submitted within this groundwater discharge application for the Val Verde Gas Plant is true, accurate, and complete to the best of my knowledge and belief.

Name: Jennifer Deal Title: Environmental Specialist

Signature: 

1.11 SPCC Plan Changes

The SPCC Plan for the Val Verde Gas Plant site was recommended with updates being made to Section 16.0 and Section 17.1.2. See attached updated SPCC Plan.

1.12 Sample Analysis

Sampling has not been conducted at this facility as there has not been discharge. In the event any sampling is needed, or conducted, Harvest will perform this upon permit approval and permit requirements.

SITE DIAGRAM








Drawn By: James McDaniel
Date: 3/29/2023



FACILITY DIAGRAM

Company: **Harvest Midstream**
Facility: **Valverde Gas Plant - NORTH**
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

LEGEND

-  Water Tank
-  Oil Tank
-  Non-SPCC Tank
-  Flow-Through Process Vessels
-  Oil Drum



Drawn By: James McDaniel
Date: 3/29/2023



FACILITY DIAGRAM

Company: **Harvest Midstream**
Facility: **Valverde Gas Plant - SOUTH**
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

LEGEND



Water Tank



Oil Tank



Non-SPCC Tank



Flow-Through Process Vessels

STORMWATER DISCHARGE PLAN

**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

October 5, 2000

Mr. Roger C. Anderson
Chief, Environmental Bureau
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

**Re: Discharge Plan Renewal GW-51
Val Verde Gas Process Plant**

Certified Z554 663 720



Dear Mr. Anderson,

Thank you for the response and approval of the ground water discharge plan renewal application GW-51 for the Burlington Resources Gathering Inc. (BR) Val Verde Gas Processing Plant located in the SE/4, of the SE/4 of Section 11, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico.

As per your request, BR is providing a signed copy of the Discharge Plan Approval Conditions (Attachment 1) and an updated discharge plan (Attachment 2). The approved discharge plan was updated to include the requested storm water run off plan information (Condition Number 15), amine recycling information, and minor updates to the plan.

A clarification was made to Condition Number 9, Underground Process/Wastewater Pipelines to reflect the site specifics of the Val Verde Plant. A new Section 7, Precipitation/Storm Water Runoff Control was added to satisfy Condition 15, Storm Water Plan. In addition, information was added to Sections 2.1, 2.2, and 2.3 to reflect minor changes at the facility and information regarding the amine recycling program.

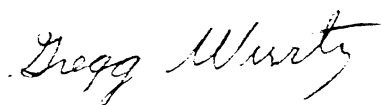
As per Mr. Wayne Price's request, BR is providing information that supports our decision to address storm water runoff in the existing groundwater discharge plan.

1. The Val Verde Plant discharge plan sufficiently addresses storm water runoff.
2. Storm water does not come in contact with process waste streams at the Val Verde Plant; hence the potential for a release is avoided.
3. A storm water plan is not a requirement of the U.S. EPA for the Val Verde Plant (Federal Register/Vol. 55 No. 222/Friday, November 16, 1990).

BR believes storm water is more appropriately addressed within the existing discharge plan and not a separate storm water plan.

If you have questions or need additional information regarding this issue please contact me at (505) 326-9537.

Sincerely,



Gregg Wurtz
Sr. Environmental Representative

Attachments: Val Verde Plant Discharge Plan GW-51
Val Verde Discharge Plan GW-51 Approval Conditions

cc: Greg Kardos, BR

Bruce Gantner, BR

New Mexico Oil Conservation Division - Aztec Office

Val Verde Plant: Discharge Plan Main File
Correspondence

Attachment 1 Burlington Resources Gathering Inc. Discharge Approval Conditions

Mr. Greg Wurtz
08/11/00
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ATTACHMENT TO THE DISCHARGE PLAN GW-051 APPROVAL
Burlington Resources, Val Verde Gas Plant
DISCHARGE PLAN APPROVAL CONDITIONS
August 11, 2000

1. Payment of Discharge Plan Fees: The OCD has received the \$50.00 filing and \$1667.50 renewal flat fee.
2. Commitments: Burlington Resources will abide by all commitments submitted in the discharge plan renewal letter dated April 19, 1999, and these conditions for approval.
3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
8. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must be tested to demonstrate their mechanical integrity no later than December 15, 2000 and every year from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD by December 31, 2000.

Mr. Greg Wurtz

08/11/00

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- 9.* Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than December 15, 2000 and every 5 years, from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD by December 31, 2000.
10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at **OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water** are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery.
12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.
13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
15. Storm Water Plan: Burlington Resources will submit a stormwater run-off plan for OCD by December 31, 2000.
16. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
17. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

*Process lines do not include gas supply lines.

Mr. Greg Wurtz
08/11/00
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18. Certification: **Burlington Resources** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein.
Burlington Resources further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Burlington Resources** Gathering Inc.

John F. Zent
Company Representative- print name

John F. Zent Date 10/5/00
Company Representative- Sign

Title Attorney in Fact

Attachment 2 Val Verde Gas Plant Discharge Plan

**VAL VERDE GAS PROCESSING PLANT
DISCHARGE PLAN NO. GW-51**

October 5, 2000

Prepared for:

Burlington Resources Gathering System, Inc.

Updated by:

Gregg Wurtz



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DISCHARGE PLAN NO. GW-51

VAL VERDE GAS PROCESSING PLANT

1.0 GENERAL INFORMATION

1.1 Val Verde Gas Processing Plant (Val Verde Plant) is owned and operated by

Burlington Resources, Inc.
3535 East 30th Street
P.O. Box 4289
Farmington, NM 87499-4289
(505) 326-9700

1.2 Name of Legally Responsible Party

Mark Ellis
Vice President, Regional Operations
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326-9700

1.3 Name of Contact Person or Representative

BR requests that all correspondence regarding this plan be sent to:

Gregg Wurtz
Environmental Representative
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326-9537

BR requests that copies of correspondence also be sent to:

Greg Kardos
Senior Plant Supervisor
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326 9508

1.4 Plant location

SE/4 of the SE/4 of Section 11,
T29N, R11W, NMPM
San Juan County, NM (Figure 1)

1.5 Purpose of Plant

Val Verde Plant is a facility, which removes CO₂ from a coal seam gas stream by contacting the gas with an amine based solvent that has a high affinity for CO₂. CO₂ stripped from the coal seam gas stream is vented to the atmosphere. The residue gas is contacted with Triethylene Glycol (TEG) to provide a set dew point.

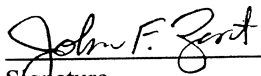
The Val Verde Plant produces a natural gas stream that is stripped of CO₂. After the natural gas stream is treated within the facility it is sold and transported to El Paso Natural Gas or Trans-Western Pipeline.

1.6 Copies

Copies of this updated Discharge Plan No. GW-51 and Discharge Plan Approval Conditions has been provided to the Santa Fe and Aztec district office of the OCD. The OCD will make available copies for District offices and public review.

1.7 Affirmation

"I hereby certify that I am familiar with the information contained in and submitted with this discharge plan, and that such information is true, accurate, and complete to the best of my knowledge and belief."



Signature

10/5/00

Date

Burlington Resources Gathering Inc.
John F. Zent
Attorney in Fact

2.0 PLANT PROCESS

2.1 Process Description

Dehydrated coal seam natural gas enters Val Verde Plant via pipeline from individual gas production facilities located throughout northwest New Mexico and southwest Colorado. The natural gas entering the plant is essentially methane and carbon dioxide (CO₂). The CO₂ laden natural gas stream is sent to one of eight process trains for CO₂ removal.

Chemicals used in each process train include a Methyldiethanolamine based solvent (MDEA) to remove CO₂ and Triethylene Glycol (TEG) to remove water entrained in the natural gas stream during CO₂ stripping.

The natural gas stream in each process train is contacted in a vertical trayed countercurrent absorber vessel with a 65% water and a 35% MDEA solution.

The rich MDEA solvent leaving the absorber vessels is regenerated in a typical MDEA regeneration system consisting of the following equipment (Figure 3a) for trains 1 and 2:

- Rich MDEA Flash Tank
- Lean/Rich Cross Exchanger
- Hot Oil Heated Reboiler (Gas Fired Hot Oil Heater)
- Lean MDEA Surge Tank
- Hot Oil Surge Tank
- Stripping Column
- Stripper Reflux Condenser (Fan Cooled)
- Lean MDEA Cooler (Fan Cooled)
- Reflux Condenser Cooler

The MDEA regeneration process for Train 3 is identical to Trains 1 and 2 except for the addition of a Final Lean/Rich Amine Exchanger (Figure 3b).

The amine regeneration system for trains 4, 5, and 6 (Figure 3c) is the same, except the amine heated reboiler is a direct fired reboiler, in place of a hot oil heated reboiler. Trains 4, 5, and 6 also have two flash tanks (high pressure and low pressure) as opposed to only one in trains 1, 2, and 3.

Train 7 and 8 MDEA regeneration system utilizes the same equipment as trains 4, 5 and 6 with the addition of a Hot Water Surge Tank, and Still Side Reboilers to accommodate an indirect fired heater rather than a direct fired reboiler.

CO₂ removed from the MDEA solution from trains 1, 2, and 3 is piped to a common 16-inch vent line, through an 8-foot diameter by 32-foot seam-to-seam, carbon steel, horizontal, vent scrubber and then discharged to the atmosphere via a vertical vent stack. Trains 4, 5 and 6 use a common 20-inch vent line, through a 10-foot by 25-foot seam-to-seam, carbon steel, horizontal, vent scrubber. Condensed water vapor collected in the vent scrubber is pumped back into the regeneration units.

Trains 1, 2, and 3 have a combined gas treating capacity of 135 MMSCF/d. Trains 4 through 8 each have a gas treating capacity of 117 MMSCF/d per train.

The dehydration process for the Val Verde Plant includes a common contactor (countercurrent absorber) for trains 1 and 2 and individual contactors for each of trains 3 through 8. Trains 1 through 3 share a common TEG regeneration system (Figure 4a) and train groups 4 through 8 (Figures 4b) each has its own TEG regeneration system.

A TEG regeneration system includes the following equipment:

- TEG flash tank
- Lean/Rich TEG cross exchangers
- Direct fired TEG reboiler with packed stripping column
- Lean TEG surge tank
- Lean TEG cooler (Fan cooled)

2.2 Water System

Process water is supplied to the Val Verde Plant by a set of raw water storage tanks to the east of the plant location. The water is passed through an ion exchange system prior to distribution throughout the plant. The ion exchange system is a portable truck mounted system that is self contained and regenerated at an offsite location.

Process water is used for make-up and cooling water in the amine regeneration process. Make-up water for the regeneration units amounts to approximately 45,000 gpd. Reject water from the regeneration system is collected in a waste water drain line system (WWD) and stored in an aboveground welded steel storage tank.

The cooling water from the regeneration system is drained into the WWD system's sumps and pumped into storage tanks. Trains 4 through 6 share a common sump and trains 7 and 8 share a common sump. From the sump the wastewater is transferred to an above ground tank. Trains 1, 2 and 3 do not have a wastewater drain system. Trains 1 through 3 utilize a hot oil heat transfer media that is used as needed.

Figure 5 and Figure 6 contain the Process and Instrumentation Diagrams (P&ID) for train 5 and train 8 respectively. The P&ID for train 5 are representative of the process fluids and wastewater collection systems in trains 4 through 6. Train 8 P&ID are representative of the process fluids and wastewater collection systems of trains 7 and 8.

2.3 Effluent Sources

Domestic discharges are made through one septic tank system shown on the facility diagram (Figure 2). The warehouse building, control rooms, shop building, and the new office building will discharge into the septic tank.

An evaporative cooling system using deionized water is operated in the summer months to increase amine cooling system efficiency. The water used in the evaporative cooling system does not come in contact with process materials or equipment. The over spray from the cooling system naturally evaporates or is collected in a small surface water impoundment and used for dust control if needed.

Potential sources for process discharges include:

- Demineralized cooling wastewater
- Unrecyclable process fluids
- MDEA test samples
- MDEA
- TEG
- Heat Transfer Oil

Spills or leaks are more likely to occur around fluid pumps, gas contactors, flash tanks and heaters.

MDEA test samples are collected once every day to determine MDEA strength and lean loading. Total sample volume collected per day is 1750 ml. Included in this sample volume are small amounts of the following test reagents:

- Distilled H₂O
- Methyl Red Indicator
- N Sulfuric Acid
- Methyl Alcohol
- Thymolphthalen Indicator 0.05%
- Normal Potassium Hydroxide

This sample is poured into the laboratory sink that drains to the WWD and is then transferred to an aboveground wastewater tank.

Spent MDEA and TEG that cannot undergo a recycling process are characterized as unrecyclable process fluids and disposed of properly offsite.

The Val Verde Plant also recycles used MDEA and TEG generated at the plant as well as used MDEA from other non-BR gas facilities. The non-BR gas facilities use Val Verde Plant's recycling program as an alternative to disposal and the Val Verde Plant reuses the regenerated MDEA. The advantages to the recycling program are extended reuse of NDEA and minimization of environmental risk of offsite transportation to a disposal facility. The recycling equipment and process is a self-contained system that generates minor amounts of residual byproduct as a result of the regeneration process. These byproducts from the regeneration process are considered exempt waste and is managed in above ground storage tanks on site and later disposed of at the Class II McGrath SWD.

3.0 TRANSFER/STORAGE OF PROCESS FLUIDS

The WWD system for trains 4, through 6 is independent of Trains 7 and 8. Each WWD system includes a general sump that is transferred to an above ground steel tank. Fluids stored in the wastewater tank are periodically hauled off site to an OCD approved Class II SWD.

Makeup TEG and MDEA in trains 1-3 are stored in aboveground 500-gallon steel storage tanks. A small portable centrifugal pump is used to transfer from the storage tank into the system. In trains 4 through 8 makeup TEG and MDEA are stored in separate aboveground 90 bbl steel storage tanks.

The hot oil systems for trains 1, 2 and 3 are closed-loop systems, utilizing an elevated surge drum. Hot oil makeup requires a bulk truck delivery.

All high pressure process vessels and piping are installed above grade with the exception of a small amount of 2-inch glycol piping. This 2-inch line is externally coated and is welded utilizing schedule 80 pipe and weld fittings. Design pressure for this line is 1000 psig and it was hydrotested at 1500 psig. The line was doped and wrapped for external corrosion protection.

All pressure vessels in this plant are ASME Coded. All process piping was designed and fabricated per ASME/ANSI B31.3. All pressure piping welds 2-inch and larger were 100 percent x-rayed.

Critical areas in the high pressure gas piping have been inspected by ultrasonic thickness examination for corrosion. These inspections are performed by qualified inspectors focusing on the critical areas in the liquid process piping for corrosion.

Three 400 bbl steel storage tanks facilitate the storage of spent MDEA generated from Trains 1 through 8. These tanks will be situated within the proximity of the MDEA reclaimer and the spent product will be stored in these units until reclaimed. In addition, one 100 bbl steel storage tank will be installed adjacent to the reclaimer to retain residual by-product generated from the MDEA reclamation activities. Furthermore, the tanks situated on gravel within an earthen berm to contain any release that may occur.

3.1 Spill/Leak Prevention and Reporting

3.1.1 Operating Procedures

The Val Verde Plant is operated in a manner to prevent and mitigate any unplanned releases to the environment. The plant is manned 24 hours per day and 365 days per year including holidays. Plant process and storage units are regularly observed by a number of personnel during normal operation, and any evidence or sign of spill/leaks are routinely reported to supervisory personnel so that repairs or cleanup can be promptly performed. Routine maintenance procedures conducted at the Val Verde Plant also help to assure that equipment remains functional and that the possibility of spills/leaks is minimized.

If a spill/leak occurs, general cleanup procedures may involve minor earthwork to prevent migration, and recovery of as much free liquid as possible. Recovered fluids would then be transported off-site for recycling or disposal. Based on existing literature, analysis and regulatory guidelines, any contaminated soil will either be left in place, transferred to other existing waste-management areas, or transported off-site for proper disposal.

1.2 Spill/Leak Containment

To reduce the risk of spilled process fluids from contacting the ground surface, Val Verde Plant has constructed curbed concrete containment basins under process areas with a higher probability of a spill/leak (described in Section 2.3). Each of the containment basins either has a small open top sump or a drain to the general sump for that particular train. The small open top sumps are periodically cleaned and vacuumed out. Concrete curbing around process equipment is illustrated on the Facility Site Diagram, Figure 2.

Process pumps without concrete containment basins are equipped with drip pans for collecting seal or packing leakage. Drums and leaking equipment are stored inside a 20' x 20' curbed concrete area. Some equipment cleaning is also performed inside this area.

Above ground tanks are located within bermed areas with a capacity of at least 1.5 times the largest tank within each bermed area. A gravel pad is placed under each tank to assist in leak detection efforts.

3.1.3 Reporting

Should a release of materials occur, BR will comply in accordance with provisions described in NMOCD Rule and Regulation #116.

4.0 EFFLUENT AND SOLID WASTE DISPOSAL

On-Site Disposal:

The Val Verde Plant does not conduct any on-site waste disposal, except for sewage, which is processed through an approved septic system. All other waste streams are taken off-site for recycling or disposal.

Off-Site Disposal:

The following table provides information about off-site disposal:

Waste Stream	Collection Method	Shipment Method	Final Disposition	Receiving Facility
Waste water	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Unrecyclable process fluids	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Caustic wash rinsate	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Amine Mechanical Filter Bag Filter	20 cyd. Roll-Off	Waste Management Trucking	Landfill	Control Recovery, Inc. Hobbs, New Mexico
Horizontal Inlet Filter Coalescer Inlet Filter Hot Oil Filter Glycol Filter	20 cyd. Roll-Off	Waste Management Trucking	Landfill	County Municipal Landfill
Lubricating Oil	Aboveground Steel Tank with Containment	Vendor Truck	Fuel Blending or Recycling	Waste Oil Recycling Facility
Heat transfer oil	Aboveground Steel Tank with Containment	Truck See Note 1	Fuels Blending or Recycling	Waste Oil Recycling Facility
Charcoal filter media	Concrete Charcoal Drainage Pad	Truck See Note 1	Soil Remediation Landfarm	Envirotech or Tierra Landfarm

Note 1. The trucking agent contracted to ship effluents off-site will be one of the following:

Dawn Trucking Co.
16B Rd 5860
Farmington, New Mexico.

Safety Clean Corp.
4210 Hawkins Rd.
Farmington, New

Sunco Trucking
708 S. Tucker Ave.
Farmington, New Mexico

Note 2. The off-site Disposal facility will be one of the following:

McGrath SWD #4
Sec. 34, T-30-N, R-12-W
San Juan County
New Mexico

Basin Disposal
Sec. 3, T-29-N, R-11-W
6 County Rd 5046
Bloomfield, New Mexico

Key Disposal
Sec. 2, T-29-N, R-12-W
323 County Rd. 3500
Farmington, New Mexico

5.0 SITE CHARACTERISTICS

Much of the information for the site characteristics of the Val Verde Plant was taken from two reports prepared by Buys and Associates, Inc. One report, dated September 11, 1990 (1990 Report), was written during the initial assessment of the Val Verde Plant before BR purchased the property from South-Tex Treaters Inc. The second report, dated April 24, 1991 (1991 Report), is a groundwater monitoring and sampling report. The two Buys and Associates, Inc. reports are not attached to this discharge plan.

5.1 Surface water

Surface water near the Val Verde Plant consists of the San Juan River and a nearby irrigation canal named Citizens Ditch. Citizens Ditch runs from east to west and is approximately ½ mile south of the plant site. The San Juan River is approximately 1.5 miles south of the plant site.

5.2 Soils

The 1990 Report characterized the subsurface at the Val Verde Plant as clayey sand and silt, and silty clay and sand resting on top of the sandstone and mudstone units of the Nacimiento Formation.

The sandstone and mudstone units only appear in the northern half of the plant site. It is thought that these units in the southern half of the plant were eroded away by what is now the San Juan River, and subsequently replaced with sediments eroded from the north and east.

Underling the plant site is erosion-resistant sandstone that was encountered during the drilling of monitoring wells in the area. This sandstone layer is thought to be the bedrock feature underling the Val Verde Plant site.

5.3 Groundwater

Groundwater levels were measured on March 11 and 12, 1991 by Buys and Associates, Inc. Depth to groundwater in the plant area was measured to range from 55.5 feet to 26.5 feet within the southern half of the plant site. No groundwater was encountered in the northern half of the plant site. No total dissolved solids (TDS) measurements were taken during the May 11 and 12, 1991 monitoring program at the Val Verde Plant (1991 Report).

Groundwater monitoring efforts at the El Paso Natural Gas (EPNG) Blanco Plant show the TDS in the groundwater to range from 5330 mg/l to 7620 mg/l. The EPNG Blanco Plant is directly adjacent to BR's Val Verde Plant (See Figure 2).

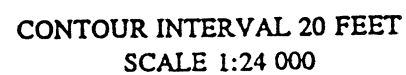
6.0 FLOOD POTENTIAL

Flood hazard data for Val Verde Plant is limited to Flood Insurance Rating Maps (FIRM) from the Federal Emergency Management Association (FEMA). Val Verde Plant lies approximately 160 feet above the San Juan River. According to the FIRM maps for San Juan County, Val Verde Plant would not be threatened by flood from a 100 year storm event. Flood protection is not necessary.

7.0. PRECIPITATION/STORM WATER RUNOFF CONTROL

Storm water run-off does not come in contact with the station process and waster streams, enclosed sumps, drainlines, equipment, and pipelines. Exposure minimization is the general management practice used to lessen the potential for storm water to come into contact with process and waste streams. Precipitation and cooling water that contacts the outside surface of equipment and the facility pad adjacent to equipment is drained to containment areas and allowed to evaporate or is captured in the WWD system. Storm water runoff that doesn't contact process equipment or adjacent process areas is allowed to naturally leave the facility. The facility pad is regularly maintained to prevent surface accumulations and where necessary the pad is armored with gravel to minimize erosion. Open top tanks are inspected periodically to monitor fluid levels.

A storm water plan for gas processing plants is not a requirement of the EPA (Federal; Register/Vol. 55 No. 22, Friday, November 16, 1990). A permit is necessary only if a facility has had a release of a reportable quantity of oil or a hazardous substance in storm water within the last three years. The Val Verde Plant has not had a release of a reportable quantity to date.



FINANCIAL ASSURANCE AND CLOSURE

Harvest Midstream
Valverde Plant
Discharge Permit Closure Plan

Facility Closure Plan

Once activities at the location have completed, the facility will be closed, and the area reclaimed according to the closure plan detailed below.

Liquid Removal

All liquids will be removed from liquid containers and equipment and disposed of as required or re-used at other Harvest Midstream facilities where applicable. Chemical containments will be emptied, and their contents disposed of. Engine oils will be taken to other sites with compression operated by Harvest Midstream or recycled according to applicable regulations regarding the recycling of oil.

Condensate will be sold to Harvest's oil transportation and sales vendor and produced water will be transported to a third-party commercial disposal well.

Unused coolants will be taken to other sites with compression operated by Harvest Midstream, returned to the vendor from which they were obtained, or disposed of with a local disposal contractor like Safety Kleen or Clean Harbors.

The deionized water tanks will be emptied, and the water transported to another Harvest Midstream plant for use.

Unused amine will be removed from the above ground amine tanks and transported by a third-party vendor to another Harvest Midstream location to be used for other oil and gas operations.

Unused glycol will be removed from the above ground glycol tank and transported by a third-party vendor to another Harvest Midstream location to be used for other oil and gas operations.

Liquids in the gasoline and diesel tanks will be removed and hauled to another Harvest Midstream location for use.

Estimated cost of liquids removal activities: \$47,000

Equipment Removal

On-site equipment will be cleaned and removed from the location for disposal, recycling, or re-use, depending on the condition of the on-site equipment at the time of site closure. All equipment will be disposed of or recycled in a manner approved by the NMOCD.

Compressors and generators will be removed from location to be used at another location operated by Harvest Midstream, will be sold for re-use or disposed of as scrap metal.

All below grade tanks will be closed pursuant to NMAC 19.15.17.13 regarding the closure of below grade tanks. Tanks will be removed and reused at another location operated by Harvest Midstream or will be disposed of or recycled in accordance with NMOCD requirements.

All above ground tanks will be removed and reused at another location operated by Harvest Midstream or will be disposed of or recycled in accordance with NMOCD requirements.

Knockouts, contactors, separators and other on-site equipment will be cleaned out, and the cleanout water will be transported to a third-party commercial disposal well. The knockout, contactor or separator will then be transported to another Harvest Midstream location for re-use or will be disposed of or recycled in accordance with NMOCD requirements.

Above ground piping and meter runs will be disconnected by a third-party contractor and will be recycled as scrap metal. All underground piping will be excavated and removed by a third-party contractor, with all piping being recycled as scrap metal.

Other non-production type equipment and materials will be removed from the site, and either sold to a third party, recycled, or disposed of at the municipal landfill. Materials include buildings, piping, fencing, culverts and assorted equipment stored on location.

Estimated cost of equipment removal activities: \$234,500

Environmental Remediation

Any areas of visual staining or soil impacts encountered and observed after all equipment has been removed will be remediated pursuant to 19.15.29 NMAC standards for the site, with confirmation samples being collected pursuant to those listed in Table I for sites over 100 feet to groundwater. Impacted soils will be removed by a third-party contractor under the direction of a third-party environmental contractor. Once impacted soils have been removed, confirmation samples will be collected pursuant to 19.15.29 NMAC Table I for sites over 50 feet to groundwater, but less than 100 feet to groundwater. Impacted soils will be transported to an NMOCD approved soil remediation facility. Currently, the only remediation facility in operation in the area is Envirotech's Landfarm #2, NMOCD permit number NM-01-0011.

Estimated cost of environmental remediation activities: \$98,700

Reclamation

After all equipment and materials have been removed, the site will be reclaimed. All gravel brought in for berms and walking areas will be removed by a third-party contractor and will be hauled to other Harvest Midstream locations for use on berms or parking areas. The site will be flattened, and contoured to match the natural drainage of the surrounding area and to prevent ponding of water on the former location of the treatment plant. Due to the site being located on private property, the area will be revegetated pursuant to landowner specifications after the site has been flattened and recontoured by a third party.

Estimated cost of reclamation activities: \$134,850

Total Estimated Costs: \$515,050

PUBLIC NOTICE

PUBLIC NOTICE

Harvest Four Corners, LLC, with offices at 1755 Arroyo Drive, Bloomfield, NM 87413, has submitted an application to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division for a discharge plan permit for the Val Verde Gas Plant located within NE ¼ of section 14, T29, R11W in San Juan County, New Mexico. The facility's physical address is 119 Country Road 4900, Bloomfield, NM, 87413 and is located approximately 2 miles East of Bloomfield NM.

The Val Verde Gas Plant is a natural gas processing and compression facility. This facility is a natural gas conditioning plant. Materials generated or used at the facility include field-grade and treated pipeline quality natural gas; new and used lubrication oil; waste waters from facility operations and equipment wash downs; Amine; Triethylene Glycol; Diesel; and Gasoline. The facility generates approximately:

(1) Approximately 12,000 bbls per month of wastewater derived from the natural gas conditioning process

(2) 88 MMscf of natural gas is processed through the plant per day

All these wastes are considered exempt wastes as stated in the Resource Conservation and Recovery Act (RCRA) Subtitle C regulations listed in 40 CFR 261.4(b)(5). These wastes are manifested or tracked with appropriate contractor for transportation and disposal.

In addition, the facility generates approximately 500 gallons per year of used oil, glycol, and amine produced from the natural gas conditioning process. The industrial process also produces 170-275 per quarter of solid waste from the used oil and used process filters. These wastes are considered non-exempt as stated in the RCRA Subtitle C and D regulations and is manifested and tracked with appropriate contractor for transportation and disposal.

All liquids utilized at the facility are stored in dedicated above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. All storage tanks are within properly engineered and OCD approved secondary containments. The aquifer most likely to be affected is approximately 55 ft in depth within the southern half of the plant site. Total Dissolved Solids concentrations for San Juan Basin have a mean >2300 milligrams per liter (mg/L).

Any interested person or persons may obtain information; submit comments or request to be placed on a facility-specific mailing list for future notices by contacting Shelly Wells at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, NM 87505, Telephone (505) 469-7520. The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices.

NOTICIA PÚBLICA

Harvest Four Corners, LLC, con oficinas en 1755 Arroyo Drive, Bloomfield, NM 87413, ha presentado una solicitud a la División de Conservación de Petróleo del Departamento de Energía, Minerales y Recursos Naturales de Nuevo México para un permiso de plan de descarga para la Planta de Gas Val Verde ubicada dentro NE ¼ de la sección 14, T29, R11W en el condado de San Juan, Nuevo México. La dirección física de la instalación es 119 Country Road 4900, Bloomfield, NM, 87413 y está ubicada aproximadamente a 2 millas al este de Bloomfield NM.

La Planta de Gas Val Verde es una instalación de procesamiento y compresión de gas natural. Esta instalación es una planta de acondicionamiento de gas natural. Los materiales generados o utilizados en la instalación incluyen gas natural de grado de campo y calidad de tubería tratada; aceite lubricante nuevo y usado; aguas residuales de las operaciones de las instalaciones y lavados de equipos; Amina; trietilenglicol; Diesel; y gasolina. La instalación genera aproximadamente:

- (1) Aproximadamente 12,000 bbls por mes de aguas residuales derivadas del proceso de acondicionamiento de gas natural
- (2) 88 MMscf de gas natural se procesan a través de la planta por día

Todos estos desechos se consideran desechos exentos según lo establecido en las reglamentaciones del Subtítulo C de la Ley de Conservación y Recuperación de Recursos (RCRA) enumeradas en 40 CFR 261.4(b)(5). Estos desechos se manifiestan o rastrean con el contratista apropiado para su transporte y eliminación.

Además, la instalación genera aproximadamente 500 galones por año de aceite usado, glicol y amina producidos a partir del proceso de acondicionamiento de gas natural. El proceso industrial también produce 170-275 por trimestre de residuos sólidos del aceite usado y filtros de proceso usados. Estos desechos se consideran no exentos según lo establecido en las reglamentaciones de los Subtítulos C y D de RCRA y se manifiestan y rastrean con el contratista apropiado para su transporte y eliminación.

Todos los líquidos utilizados en la instalación se almacenan en tanques de almacenamiento sobre el suelo dedicados antes de desecharlos o reciclarlos fuera del sitio en un sitio aprobado por OCD. Todos los tanques de almacenamiento están dentro de contenedores secundarios debidamente diseñados y aprobados por OCD. El acuífero que es más probable que se vea afectado tiene aproximadamente 55 pies de profundidad dentro de la mitad sur del sitio de la planta. Las concentraciones de sólidos disueltos totales para la cuenca de San Juan tienen una media de >2300 miligramos por litro (mg/L).

Cualquier persona o personas interesadas pueden obtener información; envíe compromisos o solicite que lo incluyan en una lista de correo específica de la instalación para futuros avisos comunicándose con Shelly Wells en el OCD de Nuevo México en 1220 South St. Francis Drive, Santa Fe, NM 87505, Teléfono (505) 469-7520. El OCD aceptará comentarios y declaraciones de interés con respecto a esta solicitud y creará una lista de correo específica del centro para las personas que deseen recibir avisos en el futuro.

SPCC PLAN

Spill Prevention Control and Countermeasure Plan

Harvest Midstream

Val Verde Gas Plant

Bloomfield, New Mexico

Introduction:

The purpose of this document is to outline and detail the necessary procedures in place to comply with the regulations outlined in *40 CFR 112 – Oil Pollution Prevention* as they pertain to Harvest Midstream (Harvest). Facilities that meet the requirements outlined in 40 CFR 112. The text will outline each applicable part of 40 CFR 112 and how Harvest complies with that portion of the regulation.

40 CFR 112.1

General Applicability

This plan is designed to meet the requirements for facilities requiring a SPCC plan, as outlined in 40 CFR 112.1. This plan will cover all facilities that have the capacity to store 1,320 gallons, or greater, of oil at an individual facility above grade. All containers able to store 55 gallons or more will be considered a part of the facility's total storage capacity and will be included in the volume calculation for that individual facility. Facilities that do not have the capacity to store 1,320 gallons of oil, or greater, are exempt from the requirements outlined in this plan.

Facilities with the capacity to store 42,000 gallons of oil, or greater, below grade will also be required to meet the requirements outlined in this plan. All containers able to store 55 gallons or more will be considered a part of the facility's total storage capacity and will be included in the volume calculation for that individual well site. Facilities that do not have the capacity to store 42,000 gallons of oil, or greater, are exempt from the requirements outlined in this plan.

Facilities that do not store oil are exempt from the requirements outlined in this plan.

40 CFR 112.3

Requirements to Prepare and Implement a Spill Prevention, Control and Countermeasure Plan

112.3(a)(1) Facility Operational Requirements

This facility was in operation prior to August 16, 2002 and has had a SPCC plan implemented prior to November 10, 2011.

112.3(a)(2) Offshore Facility Operational Requirements

No offshore facilities are included in this SPCC Plan.

112.3(b) Oil Production Facility Requirements

No Oil Production Facilities are covered under this plan

112.3(c) [Reserved]

112.3(d) Professional Engineer Certification

All applicable facilities are certified by a Professional Engineer on the *Professional Engineer Certification* page

112.3(e)(1) Maintain a copy of the plan at the facility if the facility is normally attended at least four (4) hours per day, or at the nearest field office if the facility is not so attended, and;

This facility is occupied for more than four hours per day by Harvest Midstream personnel. A copy of this SPCC plan will be available electronically by Harvest Midstream personnel on-site at the facility, and at the Bloomfield Office, located at 1755 Arroyo Dr, Bloomfield, New Mexico 87413.

112.3(e)(2) Have the Plan available to the Regional Administrator for on-site review during normal working hours

SPCC plans are available to the Regional Administrator for on-site review during normal business hours.

112.3(f)(1,2 and 3) Extension of time by the Regional Administrator

No extension of time for completion and full implementation of our SPCC plan is requested.

112.3(g) Qualified Facilities Self Certification

This SPCC Plan is not self-certified, and does not fall under these requirements

40 CFR 112.4**Amendment of Spill, Prevention, Control and Countermeasure Plan by the Regional Administrator**

112.4(a)(1-8) Notwithstanding compliance with 112.3, whenever your facility has discharged more than 1,000 US gallons (23.8 barrels) of oil in a single discharge as described in 112.1(b), or discharged more than 42 US gallons (1 barrel) of oil in each of two (2) discharges as described in 112.1(b), occurring within any twelve month period, submit the following information to the Regional Administrator within 60 days from the time the facility became subject to this section:

Within 60 days of any facility covered under this SPCC plan becoming subject to the requirements of 112.4(a), the *Regional Administrator Spill Report Form* will be completed and submitted to the Regional Administrator. The *Regional Administrator Spill Report Form* will contain the information required in subparts 1-8 of 112.4(a).

112.4(a)(9) Other Information as the Regional Administrator may reasonably require

Other available information requested by the regional administrator will be provided at the time of request.

112.4(b) Take no action under this section until it applies to your facility.

No action will be taken under this section until a release occurs as outlined in 112.4(a) making Harvest subject to this section.

112.4(c) Send to the appropriate agency or agencies in charge of oil pollution control activities in the state in which the facility is located a complete copy of all the information provided to the Regional Administrator under paragraph (a) of this section.

All appropriate state agencies will be forwarded a copy of all the information provided to the Regional Administrator on the *Regional Administrator Spill Report Form*.

112.4(d) Amend your plan after review by the Regional Administrator or the State Agency

Harvest will amend the SPCC plan submitted for review if after review by the Regional Administrator, it is determined by the regional administrator that the plan does not meet the requirements of this part, or that the amendment is necessary to prevent and contain discharges from the facility.

112.4(e) Act in accordance with this paragraph when the Regional Administrator proposes by certified mail or personal delivery that you amend your SPCC plan.

Should Harvest become subject to this paragraph, Harvest will reply to the Regional Administrator's proposed amendments to the reviewed SPCC plan with written information, views and arguments within 30 days of receipt of the proposed amendments. The Regional Administrator has 30 days to reply to Harvest's written information, views and arguments, and will require the amendment or rescind it. Should the amendment still be required, Harvest will amend the SPCC plan as required within 30 days, and will implement the amended plan within six (6) months.

112.4(f) Appeal

If Harvest chooses to appeal the decision by the Regional Administrator requiring an amendment to their SPCC plan, a written appeal will be sent to the EPA Administrator within 30 days of receipt of the notice from the Regional Administrator requiring the amendment. A copy of the appeal will be sent to the Regional Administrator. The appeal will contain clear and concise facts regarding the case, and any additional relevant information. Any additional information requested by the EPA Administrator will be provided at the time of request.

40 CFR 112.5

Amendment of Spill Prevention, Control and Countermeasure Plan by owners or Operators.

112.5(a) Amend the SPCC plan for your facility in accordance with the general requirements in 112.7, and with any specific section of this part applicable to your facility, when there is a change in the facility design, construction, operation or maintenance that materially affects its potential for a discharge as described in 112.1(b).

Within six (6) months of a facility change that would affect the facility's potential for a discharge as described in 112.1(b), the SPCC plan for that facility will be updated and implemented. Tracking of updates are maintained by the safety department.

112.5(b) Five (5) Year SPCC Plan Review

At least once every five (5) years, as outlined in this paragraph, a review and evaluation of the SPCC plan will be completed and documented on the *Five Year SPCC Review Sheet*. All

amendments documented on the SPCC review sheet will be implemented within six (6) months of the review and amendment.

112.5(c) Professional Engineer Certification

All applicable facilities are certified by a Professional Engineer on the *Professional Engineer Certification* page. Amended SPCC plans will be certified by a Professional Engineer within six (6) months of the amendment.

40 CFR 112.6

Qualified Facility Plan Requirements

All applicable facilities are certified by a Professional Engineer on the *Professional Engineer Certification* page. Harvest will not self-certify SPCC plans.

40 CFR 112.7

General Requirements for Spill Prevention, Control and Countermeasure Plans.

This SPCC plan has been approved by management on the *Management Approval* page as required in this section.

112.7(a)(1) Include a discussion of your facility's conformance with the requirements listed in this part.

This document discusses in detail the conformance of Harvest's facilities to the requirements outlined in each part.

112.7(a)(2) Comply with all applicable requirements listed in this part. Deviations from this part are possible with exception from the Regional Administrator.

This plan conforms to the requirements listed in this part, and no deviations have been noted.

112.7(a)(3) Describe in your plan the physical layout of the facility and include a facility diagram, which must mark the location and contents of each fixed oil storage container and the storage area where mobile or portable containers are located. You must also address in your plan:

A facility diagram is included in the site-specific portion of the SPCC plan. The facility diagram complies with the requirements listed in this paragraph.

112.7(a)(3)(i) The type of oil in each container and its storage capacity.

The facility diagram in the site-specific portion of the SPCC plan details the storage container size and the container contents. The contents and size of all containers at each facility is also documented in the site-specific portion of the SPCC plan on the *SPCC Equipment Inventory* sheet.

112.7(a)(3)(ii) Discharge Prevention Methods including procedures for routine handling of products

Harvest has numerous discharge prevention methods that are utilized at the facilities covered under this SPCC plan. Harvest utilizes equipment and storage containers that are adequately sized and rated for the pressures and products that they could reasonably be expected to contain

and process. Facilities are regularly inspected by personnel, as outlined in *Inspection Procedures*, to monitor the equipment and storage containers integrity and to prevent over-filling of storage containers.

112.7(a)(3)(iii) Discharge or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge.

All equipment and storage containers that are subject to SPCC secondary containment regulations have secondary containment that is sized to contain 110% of the volume of the largest container within the containment. Additional discharge and drainage controls are addressed in *Spill Response Actions*. Harvest operates numerous process equipment which, due to its use and configuration, is not required to maintain sized secondary containment.

112.7(a)(3)(iv) Countermeasures for discharge discovery, response and cleanup.
Countermeasures for the discovery of a discharge are outlined in *Spill Response Actions*.

112.7(a)(3)(v) Methods of disposal of recovered material in accordance with applicable legal requirements

Harvest disposes of all waste as required by Federal, State and local standards.

112.7(a)(3)(vi) Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State and local agencies who must be contacted in case of a discharge as described in 112.1(b)

Contact information is maintained on the *Notifications and Contacts* sheet.

112.7(a)(4) Unless you have submitted a response plan under 112.20, provide information and procedures in your plan to enable a person to report a discharge as described in 112.1(b)

A discharge occurring at a Harvest facility would likely be first identified by a Harvest employee or representative during routine inspections. The Harvest employee will have the site knowledge required to identify the material discharged. The *Spill Response Procedures* lists the responsible parties for reporting and documenting the release. This plan details the phone numbers for reporting a release at this facility.

112.7(a)(5) Unless you have submitted a response plan under 112.20, organize portions of the plan describing procedures you will use when a discharge occurs in a way that will make them readily usable in an emergency.

All information regarding spill response procedures, contact information, facility equipment and the well information are standalone documents, and are readily available to be printed and used, or taken from a hard copy of the SPCC plan. The usable documents are the *Spill Response Procedures*, *Notifications and Contacts*, *Facility Diagram*, *Oil Spill Contingency Plan* and *SPCC Equipment Inventory*.

112.7(b) Where experience indicates a reasonable potential for equipment failure, include in your plan a prediction of the direction, rate of flow, and total quantity of oil that could be discharged from the facility as a result of each type of major equipment failure.

At the facilities covered under this SPCC plan, there are four (4) different types of releases that could potentially occur. The drainage direction for each facility is presented on the **Facility Information Page** for each facility, and the total volume capacity that could be lost from each piece of equipment or container is presented in the **SPCC Equipment Inventory** and the **Facility Information Page**. The predicted rates of flow are presented below for each of the three (3) types of failures possible.

1. Rupture: A rupture would occur when a piece of equipment over-pressurizes and fails. In the case of a rupture, the entire contents of the container would be lost nearly instantaneously. The rate of flow for this type of failure would be the entire volume of the container listed in the **Facility Diagram** lost instantaneously.

2. Leak: A leak would typically occur in a storage container or piece of equipment due to corrosion or a substandard weld on a seam. The hole would typically be very small, and not bigger than the diameter of a pencil. Using *Torricelli's Law* for the velocity of fluid flowing from an open tank, the calculated flow volume for the worst-case leak of approximately 1/4 inch opening would be 894 gallons of fluid per hour. This flow rate would decline as the volume of the equipment or storage tank became less and less, until the leak was stopped or the entire contents of the container, listed on the **Facility Diagram**, was lost. This flow rate is based on a worst-case scenario leak, and would typically be less.

3. Valve Failure: A valve failure would typically occur when a valve on a piece of equipment failed, causing the fluids inside the container to discharge through the failed valve. Typically, Enduring uses several different valve sizes, and the flow velocity has been calculated for several different sizes using *Torricelli's Law*.

1/2 Inch Valve = 60 gal/minute

1 Inch Valve = 239 gal/minute

2 Inch Valve = 954 gal/minute

Similar to a leak, these flow rates would decline as fluid was lost. The flow rate would continue to decline until the entire contents of the container, listed in the **Facility Diagram**, was lost, or the leak was stopped. These flow rates are worst-case-scenario rates and would typically be less than these values.

112.7(c) Provide appropriate containment and/or diversionary structures to prevent a discharge as described in 112.1(b)

All applicable equipment and containers have sized secondary containment sufficiently impervious to contain oil designed to hold 110% of the volume of the largest container within the containment. Most of the equipment covered under this plan is process equipment and is exempt from the secondary containment requirements.

112.7(d)(1 and 2) Provided your plan is certified by a licensed professional Engineer under 112.3(d), if you determine that the installation of any of the structures or pieces of equipment listed in paragraphs (c) and (h)(1) of this section, and 112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2) and 112.12(c)(11) to prevent a discharge as described in

112.1(b) from any onshore or offshore facility is not practicable, you must clearly explain in your plan why such measures are not practicable; and, unless you have submitted a response plan under 112.20, provide in your plan the following:

All applicable equipment and containers have sized secondary containment sufficiently impervious to contain oil designed to hold 110% of the volume of the largest container within the containment. Most of the equipment covered under this plan is process equipment and is exempt from the secondary containment requirements. Harvest has not submitted a response plan under 112.20.

112.7(e) Inspections, Tests and Records

OTEC conducts inspections and tests as outlined in the *Inspections Procedures*. The record keeping procedures are outlined in the *Inspection Procedures* as well.

112.7(f) Personnel, training and discharge prevention procedures

112.7(f)(1) At a minimum, train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules and regulations; general facility operations; and the contents of the facility SPCC plan.

Oil-handling personnel are trained annually on the above listed criteria by Harvest. Copies of the sign-in sheets are maintained by the safety department for reference and documentation. The sign-in sheets document the names of the personnel attending the training, the facilitator of the training, and the date the training was completed.

112.7(f)(2) Designate a person at each applicable facility who is accountable for discharge prevention and who reports to facility management.

The Operations Manager and Area Supervisors are the designated persons who are accountable for discharge prevention. The Operations Manager and Area Supervisors are listed on the *Notification and Contacts* page.

112.7(f)(3) Schedule and conduct discharge prevention briefings for your oil handling personnel at least once a year to assure adequate understanding of the SPCC plan for that facility. Such briefings must highlight and describe known discharges as described in 112.1(b) or failures, malfunctioning components, and any developed precautionary measures.

Oil-handling personnel are trained annually on the above listed criteria by Harvest. Copies of the sign-in sheets are maintained by the safety department for reference and documentation. The sign-in sheets document the names of the personnel attending the training, the facilitator of the training, and the date the training was completed.

112.7(g) Facility Security (excluding oil production facilities)

Facilities covered under this SPCC plan are fenced using chain link fences and have entrance gates that are locked. Keys for the locked facilities are maintained by Harvest employees and approved contractors only.

112.7(h)(1-3) Facility tank car and tank truck loading/unloading rack

Facilities covered under this SPCC plan do not use loading/unloading racks for operations and are therefore not subject to the regulations in this paragraph.

112.7(k) Qualified Oil-Filled Operational Equipment

Harvest does not own or operate any oil filled operation equipment that meet the criteria outlined in the paragraph.

40 CFR 112.8

General Requirements for Spill Prevention, Control and Countermeasure Plans (excluding production facilities)

112.8(a) Meet the general requirements for the Plan listed under 112.7, and the specific discharge prevention and containment procedures listed in this section.

This plan meets the general requirements listed under 40 CFR 112.7

112.8(b) Facility drainage.

112.8(b)(1) Restrain drainage from diked storage areas by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge.

Facilities covered under this plan do not have diked storage areas that will require drainage.

112.8 (b)(2) Use valves of manual, open-and-closed design, for the drainage of diked areas.

Facilities covered under this plan do not have diked storage areas that will require drainage.

112.8 (b)(3) Design facility drainage systems from undiked areas with a potential for a discharge

This facility does not have diked areas with a potential for discharge. All diked areas are sized to contain the contents of the container it is surrounding. Additionally, Bloomfield, New Mexico is a desert climate that receives very little precipitation, only 10.4 inches a year.

112.8(b)(4) If facility drainage is not engineered as in paragraph (b)(3) of this section, equip the final discharge of all ditches inside the facility with a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.

The facility covered under this plan does not have site specific facility drainage systems, due to the minimal rainfall that occurs in the subject area. The facility covered under this plan is in Bloomfield, New Mexico, which receives an average of 10.4 inches of rainfall annually. The facility does not have specific drainage ditches.

112.8(b)(5) Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps and permanently install at least one of the pumps.

Drainage water treatment systems are not present at any facilities covered under this plan.

112.8(c) Bulk Storage Containers

112.8(c)(1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature.

Equipment covered under this plan are tanks and flow through process vessels that are specifically designed to contain the type and quantity of oil that is being stored at each facility. Oil drums used for containing oil are specifically designed for the type of oil they are expected to hold.

112.8(c)(2) Bulk Storage Secondary Containment

Equipment covered under this plan are tanks and flow through process vessels that are specifically designed to contain the type and quantity of oil that is being stored at each facility. Oil drums used for containing oil are specifically designed for the type of oil they are expected to hold.

112.8 (c)(3)(i-iv) Not allow drainage of uncontaminated rainwater from the diked area into a storm drain or discharge of an effluent into an open watercourse, lake, or pond, bypassing the facility treatment system.

No facilities covered under this facility have secondary containment that could become filled with rainwater that meet the requirements of this section.

112.8(c)(4) Buried Metal Containers

None of the facilities covered under this plan have buried metal containers that meet the requirements of this section.

112.8 (c)(5) Partially Buried or Bunkered Metal Containers

None of the facilities covered under this plan have partially buried or bunkered metal containers that meet the requirements of this section.

112.8 (c)(6) Inspections of Above Ground Containers

Facilities covered under this plan will undergo periodic inspections by Harvest as operators visit the facilities. The inspection procedures are outlined in the attached ***Inspection Procedures***.

Documented inspections will be performed annually by Harvest personnel pursuant to the procedures outlined in the attached *Inspection Procedures and* will be documented on the attached *Annual Inspection Sheet*.

112.8 (c)(7) Controlling Leakage through Defective Internal Heating Coils

Oil filled equipment at facilities covered under this plan do not contain internal heating coils and are not subject to this section.

112.8(c)(8)(i-v) Engineer or update each container installation in accordance with good engineering practice to avoid discharges.

Oil containment equipment covered under this plan are outfitted with high level alarms that are monitored by plant operators to avoid an overflow. Additionally, plant staff are on-site daily to ensure oil filled equipment are not leaking and do not overflow.

112.8(c)(9) Effluent Treatment Facilities

Facilities covered under this plan do not have effluent treatment facilities or system and are not subject to the requirements of this section.

112.8(c)(10) Correcting Visible Discharges

If Harvest personnel discover a release, it will be addressed immediately as outlined in the attached *Spill Response Procedures*. Spills will be stopped as soon as possible, and will be contained to prevent the release from spreading off-site. Spills will also be reported pursuant to the reporting requirements outlined in 19.15.29 NMAC.

112.8 (c)(11) Mobile or Portable Oil Storage Containers

Harvest does not maintain portable oil storage containers at the Val Verde Gas Plant.

112.8 (d) Facility Transfer Operations, Pumping, and Facility Process

112.8(d)(1-3) Buried Piping

All buried piping that transfers liquid is properly coated to protect against corrosion and damage. The soil and moisture level at this facility are not conducive to extensive corrosion, making cathodic protection unnecessary for the buried pipelines at this facility. Piping is currently in use and does not go through extended periods without being used. Pipe supports are designed to minimize abrasion and corrosion and expansion and contraction.

112.8(d)(4) Above Ground Inspections

Facilities covered under this plan will undergo periodic inspections by Harvest as operators visits the facilities. The inspection procedures are outlined in the attached *Inspection Procedures*.

The inspection procedures require that any valves or associated equipment are inspected as a part of the written inspection procedures.

112.8(d)(5) Vehicle Warnings

The Val Verde Gas Plant is fenced, and all vehicle entry is controlled by Harvest personnel. Above ground piping is protected by vehicle barriers and reflective markings to prevent damage from on-site vehicles. Vehicle traffic is minimized by Harvest personnel to those necessary for plant operations.



LEGEND

WATERWAY



AERIAL DIAGRAM

Company: Harvest Midstream
Facility: Valverde Gas Plant
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

Drawn By: James McDaniel
Date: 6/20/2022



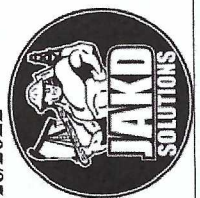
**LEGEND**

	Produced Water Tank		Flow-Through Process Vessels
	Oil Tank		Oil Drum
	Non-SPCC Tank		

FACILITY DIAGRAM

Company: Harvest Midstream
 Facility: Valverde Gas Plant - NORTH
 San Juan County, New Mexico
 GPS: 36.731645, -107.957264
 Year Taken: 2022
 Source: Site Visit + Google Earth

Drawn By: James McDaniel
 Date: 6/20/2022





FACILITY DIAGRAM

Drawn By: James McDaniel
Date: 6/20/2022



Company: Harvest Midstream
Facility: Valverde Gas Plant - SOUTH
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

LEGEND



Diesel Tank

Flow-Through Process Vessels

Oil Drum

Gasoline Tank

Waste Oil Tank

SPCC Equipment Inventory

Facility Name

Val Verde Gas Plant

Date

6/16/2022 Inspector Name

James McDaniel

Berm #5									
Berm Type	Inside Length (ft)	Inside Width (ft)	Outside Length (ft)	Outside Width (ft)	Height (in)	Volume (bbls)	Height (in)	Volume (bbls)	Tank Number
Tapered Earth	100	26	118	46	18	1048			
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbls)	Tank Number			
Production Tank	Waste Water	Steel	16	15.5	537	25			
Non-SPCC	Other	Steel	15	12	302	22			
Non-SPCC	Other	Steel	15	12	302	23			
Non-SPCC	Other	Steel	15	12	302	24			
Non-SPCC	Other	Steel	10	8	89	20			
Non-SPCC	Other	Steel	10	8	89	21			
Percent Compliant			164%						
Berm #6									
Berm Type	Inside Length (ft)	Inside Width (ft)	Outside Length (ft)	Outside Width (ft)	Height (in)	Volume (bbls)			
	40	30	40	30	5	89			
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbls)	Tank Number			
Used Oil Tank	Used Oil	Steel	6	3.5	10	46			
Fuel Tank	Diesel	Steel	6	3	8	48			
Fuel Tank	Gasoline	Steel	5	3	6	49			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Oil Drum	Oil	Steel	2.75	1.85	1	NA			
Percent Compliant			822%						
Equipment Not Inside a Berm									
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbls)	Equipment #			
Inlet Receiver	Oil and Water	Steel			130	NA			
Inlet Receiver	Oil and Water	Steel			369	1606			
Inlet Receiver	Oil and Water	Steel			11	507803			

SPCC Equipment Inventory

Facility Name

Val Verde Gas Plant

Date

6/16/2022 Inspector Name

James McDaniel

Berm #3						
Berm Type	Inside Length (ft)	Inside Width (ft)	Outside Length (ft)	Outside Width (ft)	Height (in)	Volume (bbls)
Tapered Earth	40	45	50	56	16	540
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbls)	Tank Number
Production Tank	Condensate	Steel	15	12	302	3
					0	
					0	
					0	
					0	
Percent Compliant	110%		160%			
Berm #4						
Berm Type	Inside Length (ft)	Inside Width (ft)	Outside Length (ft)	Outside Width (ft)	Height (in)	Volume (bbls)
	29	89	113	48.5	24	1739
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbls)	Tank Number
Production Tank	Oil and Water	Steel	16	15.5	537	37
Non-SPCC	Other	Steel	15	12	302	36
Non-SPCC	Other	Steel	15	12	302	35
Non-SPCC	Other	Steel	10	8	89	34
Non-SPCC	Other	Steel	10	8	89	33
					0	
					0	
					0	
Percent Compliant	110%		279%			

SPCC Equipment Inventory

Facility Name	Date	Inspector Name
Val Verde Gas Plant	6/16/2022	James McDaniel

6/16/2022

Inspector Name

JAMES MCBRIDE

Date

Berm #1							
Berm Type	Inside Length (ft)	Inside Width (ft)	Outside Length (ft)	Outside Width (ft)	Height (in)	Volume (bbbls)	
Tapered Earth	38	26	38	26	48	704	
Equipment	Contents	Material	Height (ft)	Diameter (ft)	Volume (bbbls)	Tank Number	
Production Tank	Produced Water	Steel	15	10	210	1	
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Certification of Substantial Harm Applicability**CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA
CHECKLIST****Facility:** Val Verde Gas Plant**Purpose:** Gas Plant**Terminal Location:** Bloomfield, New Mexico

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes ____ No **X**

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

Yes ____ No **X**

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

Yes ____ No **X**

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?

Yes ____ No **X**

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil discharge in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes ____ No **X**

Professional Engineer Certification

I, John T Boyce, attest that I am familiar with the requirements outlined in 40 CFR 112.3 (d) requiring Spill Prevention, Control and Countermeasure (SPCC) Plans to be certified by a licensed Professional Engineer. (112.3(d)(i))

- I attest that my agent has visited and examined the facilities covered under this plan as required in 112.3(d)(ii).
- I attest that this plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part as required in 112.3(d)(iii)
- I attest that procedures for required inspections have been established in this plan as required in 112.3(d)(iv)
- I attest that the SPCC plan is adequate for the facilities as required in 112.3(d)(v)

Printed Name of Registered Professional Engineer:

John T. Boyce

Signature of Registered Professional Engineer:

John T. Boyce

Date of Plan Certification:

7/29/2022

Certification Number:

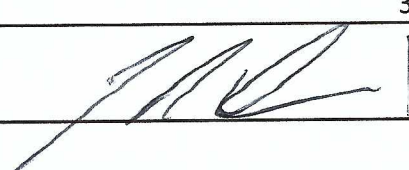
22213



Five Year SPCC Review Sheet

Pursuant to 40 CFR 112.5(b), the SPCC plan will be reviewed and evaluated every five (5) years. Amendments to the SPCC plan will be outlined and documented on this form.

I, James McDaniel have completed review and evaluation of the SPCC plan
and I James McDaniel amend the SPCC plan as a result

Description of Change:	On Page 10, Section 112.8(c)(10), language was added stating "Spills will also be reported pursuant to the reporting requirements outlined in 19.15.29 NMAC."
Description of Change:	
Description of Change:	
Description of Change:	
Description of Change:	
Description of Change:	
Description of Change:	
Description of Change:	
Date:	3/29/2023
Signature:	
Title:	Project Manager

Spill Response Procedures

The following procedures are designed to outline the response activities occurring at a facility upon the discovery of a leak, spill, or release.

Person Discovering Leak, Spill or Release

- The person discovering the release will immediately notify their supervisor of the leak or spill as soon as it is discovered
- The person discovering the release will evaluate the health and safety hazards and stop the release at the source if safely possible.
- The person discovering the release will safely perform any spill control actions possible in order to control the release. (diversions, berms, oil soak pads, etc)

Supervisor

- The supervisor will direct further source control activities including emptying tanks, mobilizing spill response contractors, or allocating additional manpower where needed.
- The supervisor will notify the health and safety representative of the release.
- The supervisor will assume the role of incident commander when a health and safety representative is not available.

Health and Safety Representative (Oil Discharge Response Coordinator)

- The health and safety representative (HSR) will evaluate the impacts of the spill or release and assume the role of incident commander
- The HSR will notify upper management of the release
- The HSR will activate the ***Oil Spill Contingency Plan***, if it is deemed necessary
- The HSR will be responsible for notifying applicable landowners and regulatory agencies
- The HSR will mobilize additional spill response or remediation contractors where necessary
- The HSR will oversee spill cleanup, remediation, and closure activities pursuant to federal, state and local regulations and standards
- All response, remediation and spill cleanup activities will be documented all response activities, remediation and spill cleanup activities will be documented by the HSR.
- The HSR will complete the ***On-Site Form*** to be maintained with the SPCC Plan for a minimum of three (3) years after the release
- The HSR will file all applicable spill reports with federal, state and local agencies and will comply with the requirements of 40 CFR 112.4 where applicable.

Process Equipment Inspection Procedures

This document outlines process vessel inspection procedures for process vessels covered under this plan that are not within sized secondary containment. This written program demonstrates the methods of vessel inspections performed by Harvest Midstream in accordance with 40 CFR 112.9(c)(5). All process vessels and associated components will be periodically inspected by operators on-site.

- Visually inspect process vessel for signs of corrosion, signs of leaks, and possible defects in the vessel shell that could potentially result in a leak.
- Visually inspect process vessel components (valves, piping, flanges, connectors, gaskets, etc) for signs of corrosion, signs of leaks, and possible defects that could potentially result in a leak.
- Visually inspect process vessel welds for signs of corrosion, signs of leaks, and possible defects that could potentially result in a leak
- If signs inspection shows signs of a leak, notification will be made immediately, and corrective actions or repairs will be made in a timely fashion.
- Any accumulations of oil or visual oil discharges will be promptly removed or stabilized.

Inspection Procedures

Routine Visual Inspections Completed by Harvest Midstream Plant Staff

- Visually inspect tanks, piping, valves, and any other oil filled equipment for signs of leaks, damage, or cracks
- Visually inspect tanks, piping, valves, and any other oil filled equipment for signs of corrosion and leaks, including staining, puddles, or discolored areas
- Visually inspect valve seals to ensure they remain intact
- Replace or repair equipment, as needed, based on inspections

Annual Inspections Completed by Harvest Midstream HSE Representative

- Visually inspect valves for proper operation and leaks
- Visually inspect the outside of all on-site oil filled equipment for signs of corrosion, damaged paint surface and signs of leaks
- Visually inspect all drums to ensure that bungs are in place and show no signs of leakage
- Ensure all oil filled equipment with a capacity to store oil over 55-gallons is represented on the facility diagram
- Visually confirm the facility equipment is correctly represented on the most recent facility diagram.

Record Keeping

Annual Inspections will be performed, documented, and maintained annually with the Site Specific SPCC documentation for each facility. All Annual Inspection records will be maintained for a minimum of three (3) years.

Regional Administrator Oil Spill Report Form

Date of Release:

Person Completing Form:

Name of Facility:

Location of the Facility:

Unit ____, Section ____, Township ____N, Range ____W, San Juan County, New Mexico

Latitude _____ Longitude _____

Maximum Storage Capacity of the Facility:

**Included on the Well Information Page*

Amount Spilled (Gallons)

Corrective Actions and Countermeasures Taken, Including Equipment Repairs and Replacements:

Description of the Facility:

**Included on the attached Facility Diagram and Aerial Map*

Cause of the Discharge and a Failure Analysis:

Preventative Measures Taken to Minimize the Possibility of Recurrence:

Signature:

Title:

Date:



Harvest Midstream

ON-SITE FORM

Facility Name _____ Latitude _____ Longitude _____

Address _____ State _____ County _____

Contractors On-Site _____ Time On-Site _____ Time Off-Site _____

Spill Amount _____ (Gallons) Spilled (Oil / Other _____) Recovered _____ (Gallons)

Land Use (Range / Residential / Tribe _____) Spill Area _____ x _____ x _____ deep

**Site Diagram****Comments**

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested

Name (Print) _____ Date _____

Name (Signature) _____ Company _____

Management Approval

I, _____, hereby approve the contents of the Spill Prevention, Control and Countermeasure plan for Harvest Midstream. I attest that I have the authority to commit the necessary resources to fully implement the plan as it is written. I attest that I have the authority to commit the necessary manpower, equipment and materials required to expeditiously control and remove any quantity of oil discharged that might be harmful. I attest that this plan meets the requirements set forth in **40 CFR 112 – Oil Pollution Prevention**.

Printed Name:

Signature:

Title:

Date:



Annual SPCC Inspection Form

Facility Name _____ Latitude _____ Longitude _____

Address _____ State _____ County _____

QUESTION	YES	NO	NA
Does oil filled equipment show of signs of leaks, corrosion, damage or any other issues that could result in a leak?			
Are there any puddles or staining under oil filled equipment that indicates a leak may have occurred?			
Do visible valves, seals, gaskets and welds show signs of damage that could result in a leak?			
If a leak or release is discovered, was it reported immediately and contained?			
Do all oil filled containers or equipment with the potential to contain over 55-gallons of oil appear on the most current Facility Diagram?			
Do all oil filled containers that are not process equipment have sized secondary containment?			
Are the foundations of all oil filled equipment in good condition, and show no signs of damage that could lead to a leak?			
If present, do all oil drums have bungs in place and show no signs of leakage?			
Does the current facility diagram match the facility layout?			
Does the SPCC Diagram require an update?			

COMMENTS

Name (Print) _____ Date _____

Name (Signature) _____ Company _____

Notifications and Contacts			
Harvest Midstream			
Name	Position	Phone Number	Email Address
Jennifer Deal	Environmental Specialist	(505) 801-6517	ideal@harvestmidstream.com
Monica Smith	Environmental Specialist	(505) 947-1852	msmith@harvestmidstream.com
Oakley Hayes	Environmental Specialist	(970) 903-3203	Oakley.Hayes@harvestmidstream.com
Travis Jones	EHS Manager	(832) 368-3862	trjones@harvestmidstream.com
Dustin Fahle	Plant Operations	(505) 860-1167	dfahle@harvestmidstream.com
Federal			
Agency	Contact	Phone Number	Comments
National Response Center (NRC)	NA	(800) 424-8802 (202) 267-2675	Contact Safety Department for reporting guidelines
State			
Agency	Contact	Phone Number	Comments
New Mexico Oil Conservation Division (NMOCD) - Aztec	Nelson Velez	(505) 469-6146	Spills exceeding 5 bbls, or any release endangering human health and the environment
New Mexico Environmental Department (NMED) - Santa Fe Office	Hotline	(emergency) (866) 428-6536	Spills into waterways or affecting the public
New Mexico State Police	Main Number	(505) 325-7547	Spills into waterways or affecting the public
Local			
Agency	Contact	Phone Number	Comments
San Juan County Sherrif	NA	(505) 334-6107	Spills into waterways or affecting the public
Non-Emergency Dispatch	NA	(505) 334-6622	Spills into waterways or affecting the public
Bloomfield Fire Department	NA	(505) 632-6360	Spills into waterways or affecting the public
Emergency	NA	911	Spills into waterways or affecting the public
Spill Contractors			
Company	Contact	Phone Number	Comments
JAKD Solutions, LLC	James McDaniel	(505) 860-1666	Spill Remediation and Consulting
Emergency Environmental Services, LLC	Dan Kelly	(505) 503-3883	Emergency Spill Response
Envirotech, Inc.	Greg Crabtree	(505) 632-0615	Emergency Spill Response

Oil Spill Contingency Plan

The purpose of this plan is to fulfill the requirements listed in 40 CFR 112.9(d)(3)(i) that requires and oil spill contingency plan that follows the provisions outlined in 40 CFR 109. This Oil Spill Contingency Plan is designed to outline how Harvest Midstream (Harvest) plans to address an oil spill as described in 40 CFR 112.1(b).

40 CFR 109.5

109.5(a) Definition of the authorities, responsibilities and duties of all persons, organizations or agencies which are to be involved in planning or directing oil removal operations, with particular care to clearly define the authorities, responsibilities and duties of the State and local government agencies to avoid unnecessary duplication of contingency planning activities and to minimize the potential for conflict and confusion that could be generated in an emergency situation as a result of such duplications.

Please see the attached *Response Notification Procedures* for details regarding notifications of Local, State and Federal agencies in the event of a discharge and when they could be notified. The attached *Spill Response Procedures* outline the responsibilities of Harvest personnel during an oil spill.

The **person reporting the discharge** must provide the following information to their supervisor:

- The location name and GPS coordinates,
- The time and date the incident was discovered,
- The source and probable cause of the discharge,
- The type(s) of material discharged,
- Estimated quantity released to a navigable waterway or adjoining shoreline
- Any injuries
- Whether an evacuation may be needed,
- Any additional information that may help emergency personnel response to the incident

The **first responder** to the spill will be responsible for trying to eliminate the spill source if safely possible. The person reporting the discharge will often be the first responder as well.

The **Oil Discharge Response Coordinator**, a Harvest representative, will activate this contingency plan in the event of an oil discharge into a navigable waterway. The response coordinator will be responsible for all notifications to local, State and Federal agencies, as well as notification to Harvest management. The Oil Discharge Response Coordinator will be responsible for coordination of response activities in conjunction with the Local, State and Federal requirements, and will assume the role of incident commander until the local emergency response team arrives. Should additional assistance from State or Federal agencies be required, they will assume the role of incident commander upon their arrival.

109.5(b) Establishment of notification procedures for the purpose of early detection and timely notification of an oil discharge including:

109.5(b)(1) The identification of critical water use areas to facilitate the reporting of and response to oil discharges.

Critical water use areas are shown on the attached *Aerial Map and* includes Citizens Ditch. A spill of oil into Citizens Ditch would trigger the use of this *Oil Spill Contingency Plan*.

109.5(b)(2) A current list of names, telephone numbers and addresses of the responsible persons and alternates on call to receive notification of an oil discharge as well as the names, telephone numbers and addresses of the organizations and agencies to be notified when an oil discharge is discovered.

Please see the attached *Emergency Contacts Page* attached to this contingency plan.

109.5(b)(3) Provisions for access to a reliable communications system for timely notification of an oil discharge and incorporation in the communication system of the capability for interconnection with the communications system established under related oil removal contingency plans, particularly State and National plans.

All Harvest field personnel are issued company cell phones for communication with Harvest management and personnel. A local command center will be set up in the office of the Oil Discharge Response Coordinator, and field communications will be facilitated via cell phone to the command center from the field. The Oil Discharge Response Coordinator is responsible for communicating with all involved parties including State and National agencies, landowners and management. In the event that a State response agency, or a Federal response agency, assumes incident command, then the Contingency Plan that the incident commander is operating with will take effect.

109.5(b)(4) An established, prearranged procedure for requesting assistance during a major disaster or when the situation exceeds the response capability of the State, local or regional authority.

Please see the attached *Response Notification Procedures*.

109.5(c) Provisions to assure that the full resource capability is known and can be committed during an oil discharge situation including:

109.5(c)(1) The Identification and inventory of applicable equipment, materials, and supplies which are available locally and regionally.

Please see attached *Response Team Inventory Lists*.

109.5(c)(2) An estimate of the equipment, materials and supplies which would be required to remove the maximum oil discharge to be anticipated.

The maximum amount of oil expected to be released in a worst-case scenario discharge is 537 bbls of wastewater.

The estimated equipment to remove this anticipated oil discharge would be a backhoe and excavation equipment, as this volume of oil would soak into the gravel within the bermed area for the wastewater tank.

109.5(c)(3) Development of agreements and arrangements in advance of an oil discharge for the acquisition of equipment, materials and supplies to be used in responding to such a discharge.

The San Juan County Fire Department maintains a swift water response team that is trained for response to an oil spill into a waterway. San Juan County maintains a trained response team and equipment to respond to such a release.

109.5(d) Provisions for well defined and specific actions. To be taken after discovery and notification of an oil discharge including:

109.5(d)(1) Specifications of an oil discharge response operating team consisting of trained, prepared, and available operating personnel.

The San Juan County Fire Department maintains a swift water response team that is trained for response to an oil spill into a waterway. San Juan County maintains a trained response team and equipment to respond to such a release.

109.5(d)(2) Predesignation of a properly qualified Oil Discharge Response Coordinator who is charged with the responsibility and delegated commensurate authority for directing and coordinating response operations, and who knows how to request assistance from Federal authorities operating under existing national and regional contingency plans.

Harvest has predesignated an Oil Discharge Response Coordinator, listed in the *Emergency Contacts Page*, who is qualified to direct and coordinate response operations. The Oil Discharge Response Coordinator has the authority to direct and allocate personnel and contractors to perform response operations, and knows how to request Local, State and Federal assistance where applicable.

109.5(d)(3) A preplanned location for an oil discharge response operations center and a reliable communication system for directing the coordinated overall response operations.

The office of the appointed Oil Discharge Response Coordinator at the Bloomfield Office, located at 1755 Arroyo Dr, Bloomfield, NM 87413, will serve as the preplanned operations center for all response coordination efforts. Cell phones will act as the primary communication system to coordinate response activities from the operations center.

109.5(d)(4) Provisions for varying degrees of response effort depending on the severity of the oil discharge.

The degree of response will vary depending on the severity of the oil discharge, including the volume, and the body of water the oil discharge was into. The degree of response will be determined on a case-by-case basis considering Local and State agencies. Oil spills causing sheen on a water of the US (WOTUS), or oil staining on an embankment of a WOTUS, will require notification of the EPA, and possible activation of this contingency plan. Oil spills in a flowing waterway will require EPA notification and activation of this contingency plan.

109.5(d)(5) Specifications of the order of priority in which the various water uses are to be protected where more than one water use may be adversely affected as a result of the oil discharge and where response operations may not be adequate to protect all uses.

All water uses will be protected to the extent possible during all oil spill response activities. If more than one water use could potentially be affected, the order of priority for protecting water use would be as follows

1. Public Water Supply
2. Domestic Water Use (livestock, irrigation, etc)
3. Environmentally Sensitive Areas (recreation areas, wetlands, public use, parks)
4. All other water uses

109.5(e) Specific and well-defined procedures to facilitate recovery of damages and enforcement measures as provided by local statutes and ordinances.

All emergency cleanup efforts will be managed at the local office of Harvest with spill remediation and response activities being paid for by Harvest. All additional damages sought to be paid by Local, State or Federal agencies or landowners would be brought to the attention of management and discussed on a case-by-case basis.



LEGEND

WATERWAY



AERIAL DIAGRAM

Company: Harvest Midstream
Facility: Valverde Gas Plant
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

Drawn By: James McDaniel
Date: 6/20/2022



Response Notification Procedures

Jennifer Deal - Oil Discharge Response Coordinator (505) 324-5128

Agency	Contact Number	Circumstances	When to Notify and by who
Federal Agencies			
National Response Center (NRC)	(800) 424-8802 (202) 267-2675	Oil discharges reaching a navigable waterway	Immediate (verbal) by Oil Discharge Response Coordinator
Bureau of Land Management (BLM)	(505) 599-8900	Discharges on Federal Property exceeding 10 bbls	Written notification (15 days) by Oil Discharge Response Coordinator
Bureau of Land Management (BLM)	(505) 599-8900	Discharges on Federal Property exceeding 100 bbls	Immediate (verbal) by Oil Discharge Response Coordinator
EPA Region 6 Regional Administrator	(800) 887-6063	A single discharge of 1,000 gallons or more, or a second discharge of 42 gallons or more over a 12 month period reaching a waterway	Written notification within 60 days (pursuant to 40 CFR 112.4) by Oil Discharge Response Coordinator
State Agencies			
New Mexico Oil Conservation Division (NMOCD)	(505) 334-6178	Discharges exceeding 5 bbls, or those entering a waterway	Immediately for releases impacting a waterway
Local Emergency Response			
Bloomfield Fire Department	(505) 632-6360	Oil spill needing emergency response	Immediate (verbal) by Oil Discharge Response Coordinator
Bloomfield Police Department	(505) 334-6622	Oil spill needing emergency response	Immediate (verbal) by Oil Discharge Response Coordinator
San Juan County Fire Department	(505) 334-1180	Oil spill needing emergency response	Immediate (verbal) by Oil Discharge Response Coordinator
Emergency Response	911	Oil spill needing emergency response	Discharges where emergency services are needed
Cleanup Contractors			
JAKD Solutions, LLC	505-860-1666	Spill response and Cleanup	As needed by Oil Discharge Response Coordinator
Emergency Environmental Services, LLC	(505) 503-3883	Emergency Spill Response	As needed by Oil Discharge Response Coordinator
Envirotech, Inc.	(505) 632-0615	Emergency Spill Response	As needed by Oil Discharge Response Coordinator

Response Team Inventory Lists

Local Fire Department Response Trailer		
Item	Quantity	Comments
Trailer (24')	1	
Fast Water Booms	1500'	
Tow Bridals for Booms	60	
Oil Skimmer	1	Oleophilic drum skimmer is C-1D-18P-36
Air Hoses for Skimmer (50')	3	
2' Hose for Skimmer (50')	3	
Pump for Skimmer (2")	1	
Air Compressor	1	
Containment Pool - 1,500 gallons	1	
Tarp	1	
T-Post driver	3	
T-Posts	50	
T-Post Cables	15	
T-Post Chain Tie Downs	50	
T-Post Chain Tie Downs - Caps	50	
Buoys	20	
Personal Floatation Devices	20	XS-XXL
Poly Rop (3/8")	1400	600 foot reels
Throw Bags	4	
Snaplinks	100	
Leo Bags	3	

Leo Bag Contents		
Item	Quantity	Comments
Prussic Loops	4	
Anchor Plates	1	
Tandem Pulley	1	
Acenders (right Handed)	4	
Acenders (Left Handed)	4	
Acender Basic	2	
Butterfly Pulley	3	
D-Rings (Screw Gate)	4	
Back Pack	1	
D-Rings (Non Locking)	24	

INITIAL GROUNDWATER DISCHARGE PERMIT APPLICATION



January 16, 2023

Water Quality Management Fund
Oil Conservation Division
Attn: Shelly Wells
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: Ground Water Discharge Permit Application
Harvest Midstream Company – Four Corners
Val Verde Gas Plant

Ms. Wells:

Harvest Midstream Company – Four Corners (“Harvest”) received a letter dated October 3rd, 2022, from the Oil Conservation Division (OCD) regarding the submittal of ground water discharge permit applications. To ensure compliance with the new permitting requirements, Harvest retained Altamira US, LLC (“Altamira”) to prepare and submit the applicable ground water discharge permit applications. We have prepared application submittal for the Val Verde Gas Plant.

Due to time constraints a forty-five (45) day extension was granted and the permit application is being submitted to adhere to the new deadline of Monday, January 16th, 2023.

If you have any questions regarding the sites or permit applications, please do not hesitate to contact me directly at (405) 604-3253 or Melissa.McKibben@altamira-us.com.

Sincerely,

Melissa Adler-McKibben
Altamira US, LLC

cc: Jennifer Deal, Environmental Specialist, Harvest Midstream Company – Four Corners

GROUNDWATER DISCHARGE PERMIT APPLICATION

Prepared for:

Harvest Midstream Company – Four Corners
Val Verde Gas Plant
1755 Arroyo Drive
The Woodlands, NM 77381

Prepared by:



Altamira US, LLC
525 Central Park Drive, Ste. 500
Oklahoma City, Oklahoma 73105
Phone: (405) 604-3253

January 2023

Harvest Midstream Company – Four Corners
Groundwater Discharge Permit Application – Val Verde Gas Plant

January 2023

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ATTACHMENTS

- | | |
|----|------------------|
| 01 | Facility Mapping |
| 02 | Site Diagram |

Harvest Midstream Company – Four Corners
Groundwater Discharge Permit Application – Val Verde Gas Plant

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1.0 INTRODUCTION AND FACILITY DESCRIPTION

The Harvest Val Verde Gas Plant (facility) is an “onshore” natural gas processing and compression facility. Val Verde Gas Plant is located on private land in San Juan County, New Mexico. This facility is a natural gas conditioning. The conditioning plant removes CO₂ from natural gas that has already been compressed upstream at associated compressor sites in the San Juan Basin.

The exhaust gas heat is used to generate steam for use in the gas conditioning plant. In addition, there are various storage tanks, support structures and ancillary equipment. Records related to facility operations are maintained at central office locations.

Harvest Four Corners, LLC (Operator) and Harvest Midstream Company (Owner) are collectively referred to as “Harvest”.

Facility Owner:

Harvest Midstream
1111 Travis St.
Houston, Texas 77002

Facility Operator:

Harvest Four Corners, LLC
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Facility Contact:

Jennifer Deal
Environmental Specialist
Harvest Midstream Company – Four Corners
1755 Arroyo Dr., Bloomfield, NM 87413
(505) 324-5128
jdeal@harvestmidstream.com

The facility is located on private land owned directly by Harvest in San Juan County, New Mexico, within the NE ¼ of Section 14, T29N R11W approximately 2 miles east of Bloomfield, New Mexico at latitude and longitude 36.731645, -107.957264. A site location map is attached. The facility layout is illustrated in attachments as well. A topographic map showing the facility included in this application.

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2.0 SITE CHARACTERISTICS

The area to be permitted around the Facility is located at the following latitude/longitude coordinates: 36.731645, -107.957264. This location is not located within City corporate designated areas and, therefore, notification to the City Clerk is not required. The Val Verde Gas Plant is located approximately 2 miles east of Bloomfield, New Mexico. The site elevation is approximately 5,700 feet above mean sea level. The natural ground surface topography slopes downward toward the west and southwest. The maximum relief over the site is approximately 40 feet. Intermittent flow from the site will follow natural drainage to the south towards Hare Canyon Wash. The nearest down-gradient perennial source of surface water is the San Juan River located approximately 1.5 miles south of the site, at an elevation of approximately 5,530 feet.

2.1 General Description of Topography, Elevations, and Vegetation Types

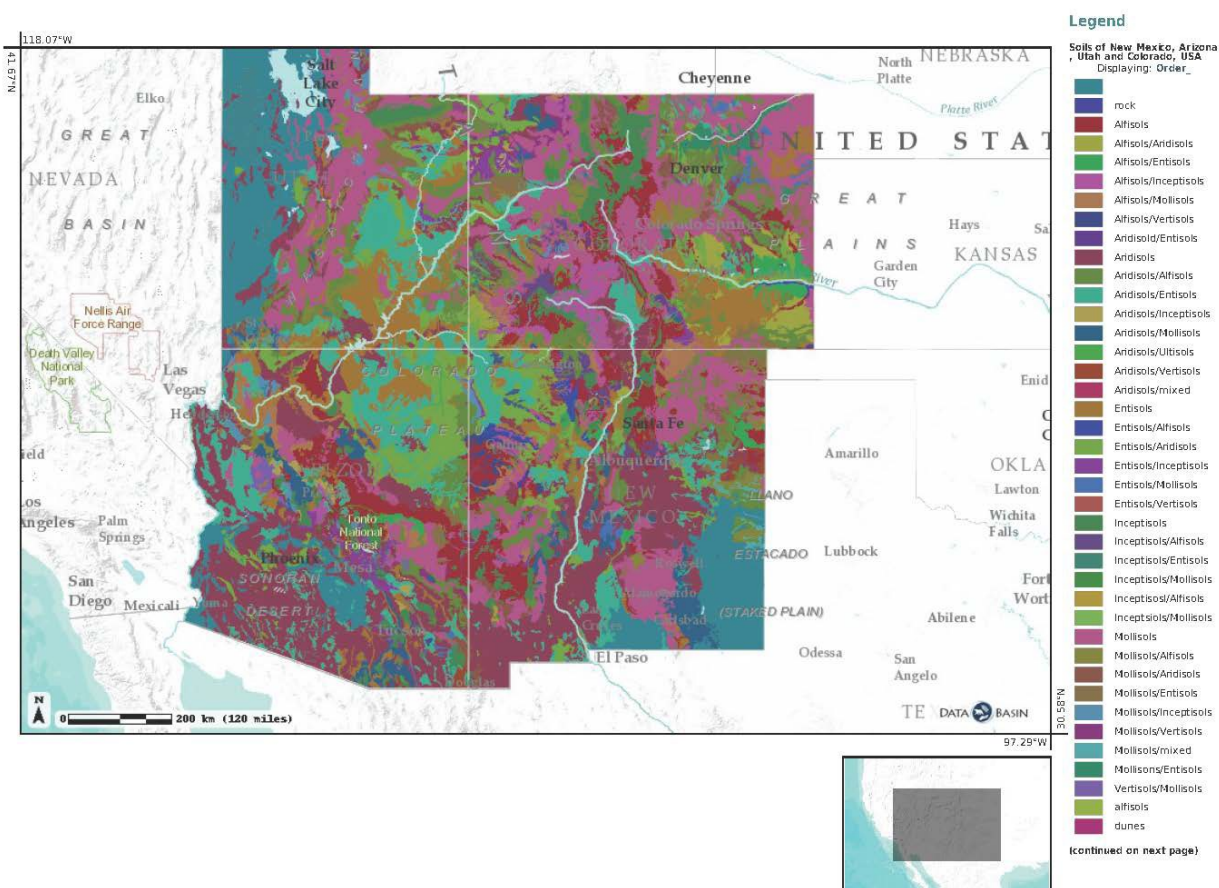
Vegetation in the area consists predominantly of sagebrush and native grasses.

2.2 Soil Types

According to Web Soil Survey, Soil Survey Geographic (SSURGO) database for San Juan County, New Mexico, and a Brownfields study in Bloomfield by the New Mexico Environment Department, soil encountered around the area to be permitted is predominantly silty sand, clay, and weakly graded sand. Some clay-like sand can also be encountered. The Brownfields study classified this soil as Type B soil. Below is a map of the tri-state area that includes New Mexico, Arizona, and Colorado with a list of soil types. This data was located from the Conservation Biology Institute data basin.

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2.3 Names, Descriptions, and Locations of Water Bodies and Discharge Sites

The Nacimiento Formation is the water-bearing unit underlying the site. This formation consists of a sequence of interbedded sandstone and mudstone. The facility falls within the Upper San Juan Watershed, USGS Hydrologic Unit Code (HUC) #14080101. The nearest receiving water to the facility is Hare Canyon, located approximately 500 feet west of the facility. Hare Canyon ultimately discharges to the San Juan River, 2.2 miles south southwest of the facility.

2.4 Location of Groundwater Wells 1 Mile Radius

The attached mapping demonstrates the nearest wells within a 1 mile radius.

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2.5 Location of Water Wells ¼ Mile Radius

A review of the available hydrologic data for this area revealed that there are no water wells within a 1/4-mile radius of Val Verde Gas Plant. This can be visible with the attached map.

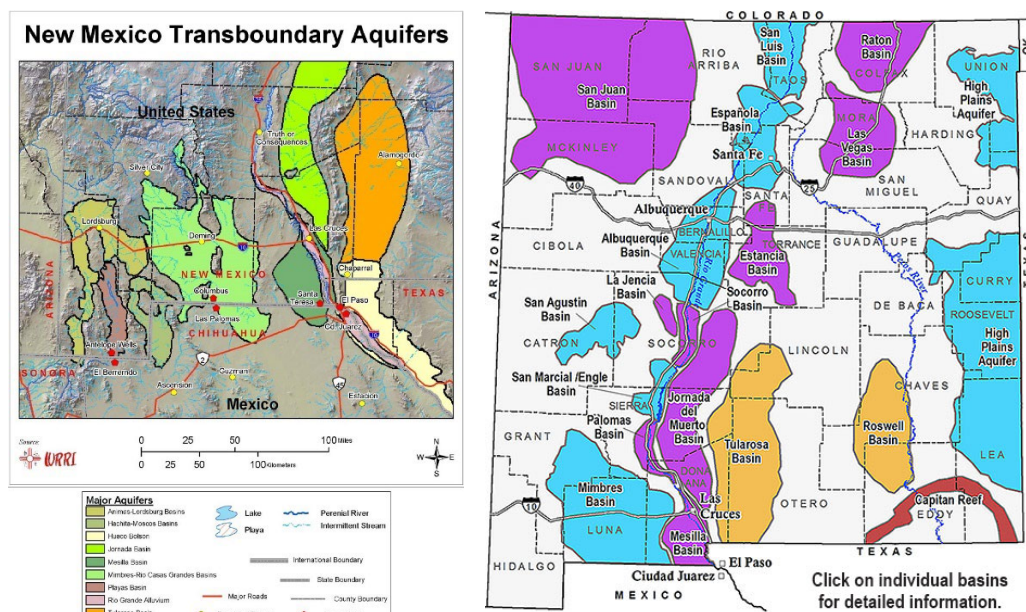
2.6 Aquifers

The facility falls within the Upper San Juan Basin. According to the New Mexico Bureau of Geology and Mineral Resources, the San Juan Basin is a large structural basin in northwestern New Mexico that formed about 75 million years ago. The basin comprises all or parts of San Juan, McKinley, Rio Arriba, and Sandoval Counties, with a northern portion that extends into southwestern Colorado. The basin is bordered by basement-cored Laramide highlands, including the Nacimiento Uplift to the east, the Zuni Mountains to the south, the Defiance uplift to the west, and the San Juan Mountains in Colorado to the north. Laramide-age monoclines form the remaining boundaries of the basin. The San Juan Basin region is a major producer of hydrocarbons, primarily natural gas, and extensive studies of the petroleum geology of the region have been conducted over the past several decades.

The principal water-bearing units in the San Juan Basin are contained in Cretaceous sandstones that were deposited in a marginal marine setting along the southwest margin of the Western Interior Seaway; non-marine Jurassic sandstones of the Morrison, Entrada and Bluff Formations; and non-marine Tertiary sandstone aquifers. Recharge to these aquifers, some of which are also natural gas reservoirs in the center of the basin, occurs in narrow outcrop belts along the basin margin, and also from the San Juan Mountains and Nacimiento Uplift to the north and east. The National Aquifer name is the Colorado Plateaus aquifers and is listed as an Unconfined aquifer. Below are aquifer maps pulled from New Mexico State University and the New Mexico Bureau of Geology and Mineral Resources.

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2.7 Depth to and Lithological Description of Rock

According to the US Geological Survey and an Ah-Shi-Sle-Pa Wilderness Study, the area is geologically comprised of layers of sandstone, shale, mudstone, and bituminous coal that were deposited 75 million years ago during the late Cretaceous era. A whopping 75,000 millennia of wind, water, and ice weathering and eroding the layers are responsible for the unique landscape. The elevation near Bloomfield, New Mexico is 5,692 feet.

2.8 Flooding Potential

The surface water run-off from the area surrounding the site will be diverted around the facility into the natural drainage path. The 100-year 24-hour precipitation event at a regional weather station according to the NOAA is 2.54 inches. This small amount of rainfall for the area should pose no flood hazards.

2.9 Depth to Groundwater and Associated Information

According to the National Groundwater Monitoring Network and the US Geological Survey, the estimated ground water depth in San Juan County ranges from 0.0-62.5 ft. The median water level is 37.83 ft. The Permian Glorieta sandstone and San Andres limestone are also important sources of groundwater along the northern margin of the Zuni Mountains for the area.

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3.0 POTENTIAL AND INTENTIONAL DISCHARGES

The following Table 1 identifies the potential sources, quantities, and quality of discharges.

TABLE 1a.
SOURCE, QUANTITY, AND QUALITY OF EFFLUENT AND WASTE SOLIDS
VAL VERDE GAS PLANT

Process Fluid/Waste	Source	Quantity (Ranges)	Additives
Use Oil	Small leaks from process equipment	500 gal/year	None
Amine	Small leaks from process equipment	None	None
Glycol	Small leaks from process equipment	None	None
Stormwater	Rainfall	<10"/year	None
Exempt Wastewater	Gas plant dehydration waste, stormwater	1,000 bbls/month	None
Used Oil Filters	Equipment Maintenance	50-75 per quarter	None
Used Amine Filters	Equipment Maintenance	100-150 per quarter	None
Used Glycol Filters	Equipment Maintenance	20-40 per quarter	None
Used Charcoal Filters	Amine Filtration System	12 cu/yds per month	None
Spill Residue	Incidental Spills	Incident Dependent	Incident Dependent
Sorbent Material and Rags	Incidental Spills/Leaks, Equipment Wipe-Down	Incident Dependent	None
Solid Waste (Trash)	Office Production	~300 lbs/month	None
Domestic Sewage	Office Restrooms	N/A	None, Not Comingled

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TABLE 1b.
SOURCE, WASTE STATUS, AND PROCESS OF EFFLUENT AND WASTE SOLIDS
VAL VERDE GAS PLANT

Process Fluid/Waste	NM Waste Status	Analytical Process	Toxic Pollutants
Used Oil	Non-Exempt	Profiled, Recycled	None
Amine	Exempt	Not Required	None
Glycol	Exempt	Not Required	None
Stormwater	Exempt	Not Required	None
Exempt Wastewater	Exempt	Profiled at Disposal Facility per NMOCD	None
Exempt Hydrocarbon Fluids	Exempt	Profiled at Disposal Facility per NMOCD	None
Used Oil Filters	Non-Exempt	Profiled Annually	None
Used Amine Filters	Non-Exempt	Profiled Annually	None
Used Glycol Filters	Non-Exempt	Profiled Annually	None
Used Charcoal Filters	Exempt	Profiled Annually	None
Spill Residue Non-Exempt Oil	Non-Exempt	RCRA Metals. In event of release or spill, analytical testing to be completed and Form C-138 prior to landfarming	None
Sorbent Material and Rags	Non-Exempt	Profiled and Tested Prior to Disposal	None
Solid Waste (Trash)	Exempt	Not Required	None
Domestic Sewage	Exempt	Not Required	None

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4.0 COLLECTION AND STORAGE SYSTEMS

Wastes generated at this facility fall into two categories: exempt and non-exempt. Exempt wastes include, but may not be limited to, used process filters, certain absorbents, spill residues, and produced water with or without de minimus quantities of non-hazardous liquids. Non-exempt wastes include, but may not be limited to, used oil, used oil filters, laboratory waste, and empty drums. Tables 2a & 2b describe the transfer, storage and disposal of process fluids, effluents, and waste solids expected to be generated at the site.

Non-exempt waste management will be conducted in accordance with NMOCD requirements including the preparation of a Certificate of Waste Status for each non-exempt waste stream. Non-exempt wastes will be analyzed at a minimum for BTEX, TPH, RCRA D-List metals, ignitability, corrosivity, and reactivity to initially determine if such wastes are hazardous as defined in 40 CFR Part 261. All wastes at the facility will be periodically surveyed for naturally occurring radioactive material (NORM) to determine if the concentrations of radium 226 exceed 30 picocuries per gram or if radiation exposure exceeds 50 microentgens per hour. If affirmed, such materials will be handled and disposed in accordance with NMOCD NORM Regulations.

Barring facility modification and/or process changes, the classification of non-exempt wastes and testing of exempt wastes (when required) by laboratory analyses will be made once during the approval period of this plan. Subsequent laboratory analyses will be performed at the generator's discretion (minimum of once every five years), or more frequently to comply with waste acceptance procedures of the disposal facility.

The following table (Table 2) depicts the storage, amounts, and locations of facility tanks.

TABLE 2
SOURCE, WASTE STATUS, AND PROCESS OF EFFLUENT AND WASTE SOLIDS
VAL VERDE GAS PLANT

Tank Contents	Solid or Liquid	Tank Capacity Max Volume Stored	Location - See Site Diagram
Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #4/T4422
Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #4/T4422A
Glycol Storage Tank	Liquid	90 bbl	Process Train #4/T4475

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Amine Rundown Tank	Liquid	210 bbl	Process Train #4/T4417
Glycol Recovery Tank	Liquid	112.5 bbl	Process Train #4/T4475A
DI Water Tank	Liquid	210 bbl	Process Train #5/T5415
Amine Make up Tank	Liquid	90 bbl	Process Train #5/T5416
Aine Contactor Anti-Foam	Liquid	500 gallons	Process Train #5/T5422
Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #5/T5422A
Glycol Storage Tank	Liquid	90 bbls	Process Train #5/T5475
Amine Rundown Tank	Liquid	210 bbl	Process Train #5/T5417
Wastewater	Liquid	500 bbl	T5418 (wastewater for Trains 4, 5, 6)
Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #6/T6422
Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #6/T6422A
Glycol Storage Tank	Liquid	90 bbl	Process Train #6/T6475
Amine Rundown Tank	Liquid	210 bbl	Process Train #6/T6417
Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #7/T7422
Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #7/T422A
Glycol Storage Tank	Liquid	90 bbl	Process Train #7/T7475
Amine Rundown Tank	Liquid	210 bbl	Process Train #7/T7417
Hot Water Rundown	Liquid	210 bbl	Process Train #7/T7419

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Amine Contactor Anti-Foam	Liquid	500 gallons	Process Train #8/T8422
Amine Still Anti-Foam Tank	Liquid	65 gallons	Process Train #8/T8422A
Glycol Storage Tank	Liquid	90 bbl	Process Train #8/T8475
Amine Makeup	Liquid	90 bbl	Process Train #8/T8416
Hot Water Rundown	Liquid	210 bbl	Process Train #8/T8419
Amine Rundown Tank	Liquid	210 bbl	Process Train #8/T8417
DI Water Tank	Liquid	210bbl	Process Train #8/T9415
Wastewater	Liquid	500 bbl	T8418 (wastewater for Trains 7, 8)
Amine Reclaim Tank 1	Liquid	400 bbl	TR-1
Amine Reclaim Tank 2	Liquid	400 bbl	TR-2
Amine Reclaim Tank 3	Liquid	400 bbl	TR-3
Amine Reclaim Tank 4	Liquid	110 bbl	TR-4
Amine Reclaim Tank 5	Liquid	110 bbl	TR-5
Amine Reclaimer Waste Tank	Liquid	210 bbl	TR-6
Dow Therm J Oil Relief Tank	Liquid	90 bbl	TR-7
Dow Therm J Oil Storage	Liquid	25 bbl	TR-8
Field Liquids Tank	Liquid	210 bbl	T101
Field Liquids Tank	Liquid	100 bbl	T102

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Glycol Storage/Amine Storage	Liquid	300 bbl	T103
Diesel Storage	Liquid	300 bbl	T104
Use Oil	Liquid	500 gallons	T105
Unleaded	Liquid	300 gallons	T-105
Anti-Foam Tanks	Liquid	5, 30 gallons	1 on each Train

5.0 INSPECTION, MAINTENANCE, AND REPORTING

Harvest personnel will operate and maintain the facility 24 hours per day, 7 days per week, 52 weeks per year. An operator will monitor the facility for equipment malfunctions. Regular inspections will be conducted throughout the facility. The above ground and below-grade tanks will be gauged regularly and monitored for leak detection.

In the event of a release of a reportable quantity, the operator reports the release to Harvest emergency management staff. The staff will immediately notify the Environmental Department and all appropriate agencies. All applicable plans will be enacted which can be, but are not limited to, Spill Prevention Control and Countermeasures Plan (SPCC), Stormwater Pollution Prevention Plan (SWP3), and Emergency Response Plan.

6.0 PROPOSED MODIFICATIONS

Val Verde Gas Plant was previously owned and operated by Val Verde Gas Gathering Company, L.P. This is a new permit application of the same facility and location now owned and operated by Harvest.

7.0 SPILL LEAK PREVENTION AND REPORTING PROCEDURES

Spill containment berms around above ground storage tanks will be designed to contain 1-1/3 times the volume of the tank. The below-grade tanks will be constructed with a means of leak detection and will either be double-bottomed tanks or a tank set on an impermeable pad.

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The SPCC Plan is provided in the Appendices. Significant spills and leaks are reported to the NMOCD pursuant to NMOCD Rule 116 and WQCC 1-203 using the NMOCD form.

8.0 FINANCIAL ASSURANCE AND CLOSURE

All reasonable and necessary measures will be taken to prevent the exceedance of water quality standards should Harvest choose to permanently close the facility. Harvest will submit a detailed closure plan to the NMOCD prior to closure.

Generally, closure measures will include removal, or closure in place, of underground piping and other equipment. All wastes will be removed from the site and properly disposed in accordance with the rules and regulations in place at the time of closure. When all fluids, contaminants, and equipment have been removed from the site, the site will be graded as close to the original contour as possible.

Should contaminated soil be discovered, any necessary reporting under NMOCD Rule 116 and WQCC Section 1203 will be made and clean-up activities will commence. Post-closure maintenance and monitoring plans would not be necessary unless contamination is encountered.

Harvest will await determination regarding whether financial assurance (FA) will be applicable for the plant. Discharges with large impoundments (greater than 5 acres of total disturbed area) and specific categories of discharges (hydrocarbon land farms, septage disposal, sludge disposal sites, etc.) will typically have FA included in their permits; however, Val Verde does not meet these requirements. There are other criteria that may trigger inclusion of FA and other criteria that would make FA not be included.

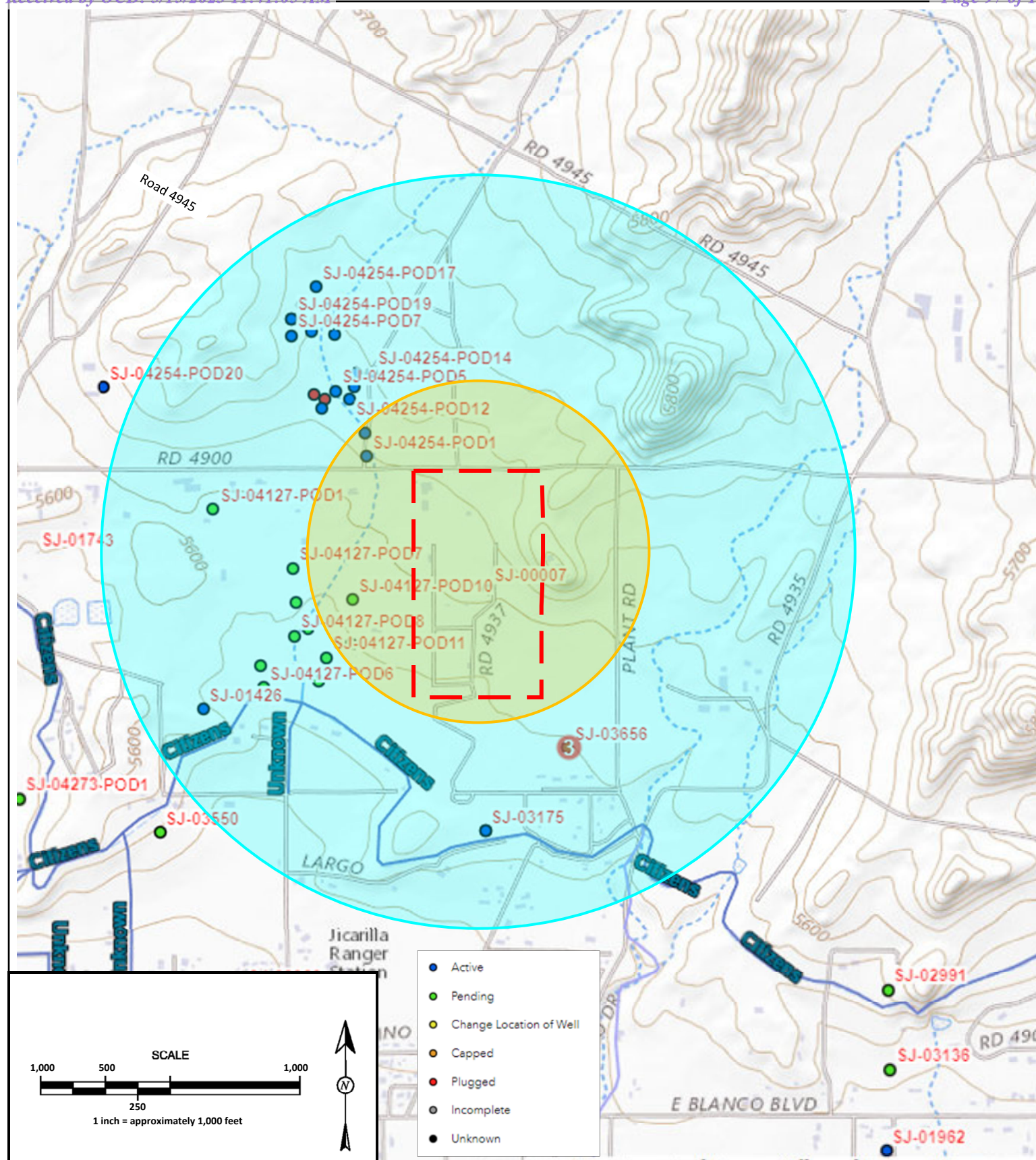
9.0 FACILITY MAPPING AND DIAGRAMS

Please refer to Attachments and Appendices.

10.0 ANALYSIS SAMPLING

Please refer to the Attachments.

FACILITY MAPPING

DRAWN BY:
BPVDRAWN DATE:
11/30/2022**FIGURE 1**

LEGEND:



1-mile Buffer



1/4-mile Buffer

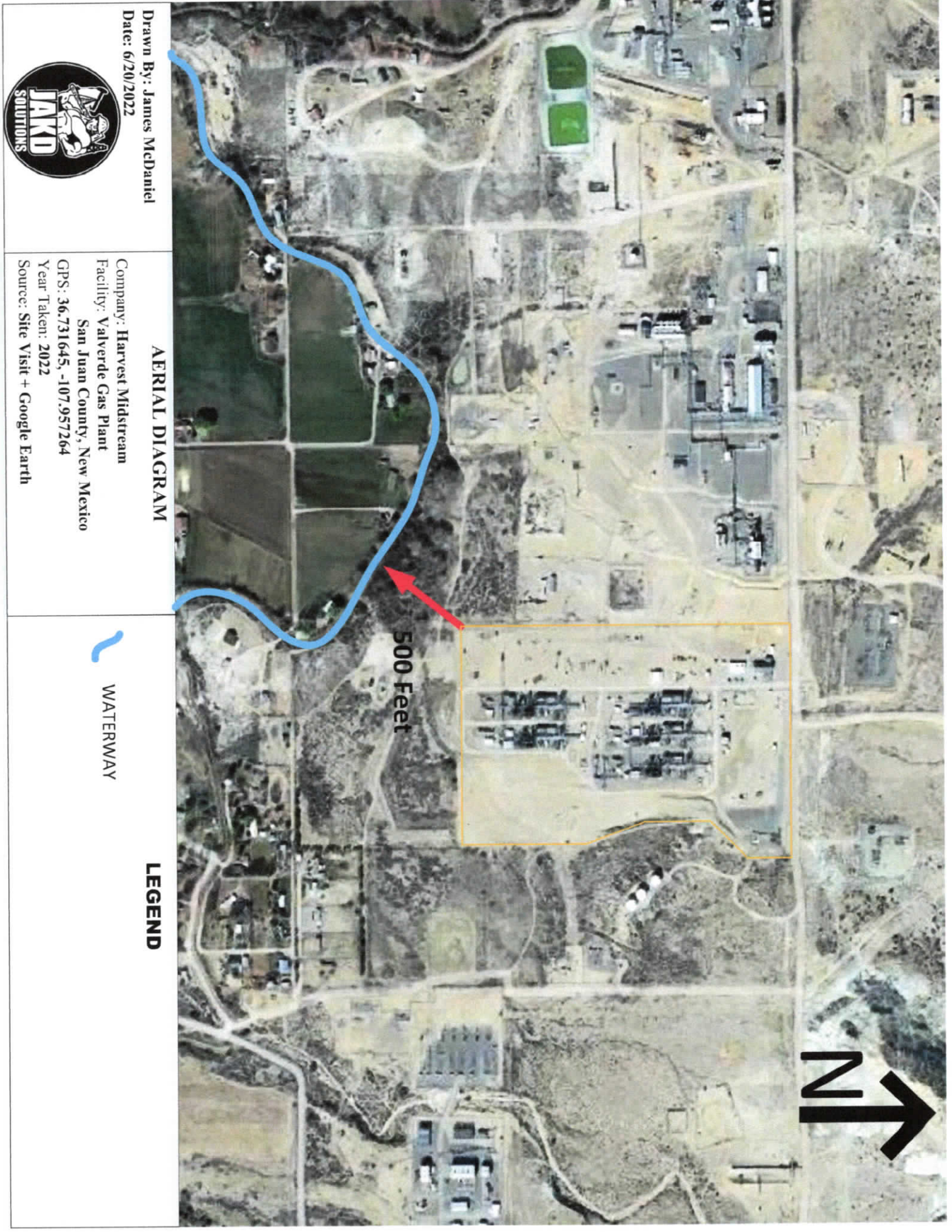


Site Boundary

Topographic Site Location Map
Harvest Four Corners
Val Verde Plant

San Juan County, New Mexico
N36.4858, W108.1200





Drawn By: James McDaniel
Date: 6/20/2022



AERIAL DIAGRAM

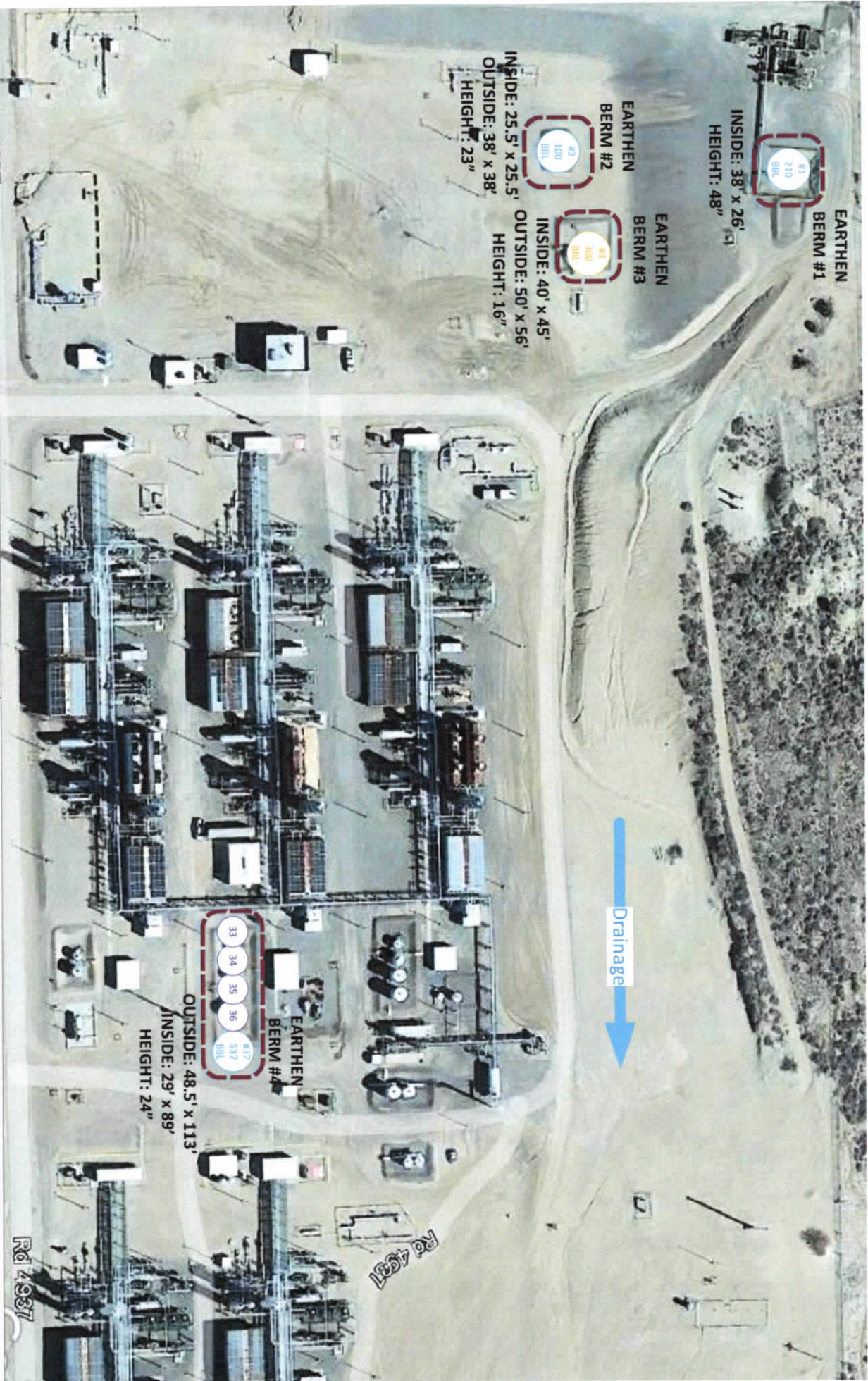
Company: Harvest Midstream
Facility: Valverde Gas Plant
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth



WATERWAY

LEGEND

SITE DIAGRAM



Drawn By: James McDaniel
Date: 6/20/2022

FACILITY DIAGRAM

Company: Harvest Midstream
Facility: Valverde Gas Plant - NORTH
San Juan County, New Mexico
GPS: 36.731645, -107.957264
Year Taken: 2022
Source: Site Visit + Google Earth

LEGEND

- 100 BBL Produced Water Tank
- 100 BBL Oil Tank
- 100 BBL Non-SPCC Tank
- 100 BBL Flow-Through Process Vessels
- Oil Drum





FACILITY DIAGRAM

Company: Harvest Midstream
 Facility: Valverde Gas Plant - SOUTH
 San Juan County, New Mexico
 GPS: 36.731645, -107.957264
 Year Taken: 2022
 Source: Site Visit + Google Earth

Drawn By: James McDaniel
 Date: 6/20/2022



LEGEND

- Produced Water Tank
- Oil Tank
- Non-SPCC Tank
- Diesel Tank
- Flow-Through Process Vessels
- Oil Drum
- Gasoline Tank
- Waste Oil Tank

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 216858

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID:	373888
	Action Number:	216858
	Action Type:	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/26/2023