

Spill to Land Volume Estimation Calculator

First, answer the two questions to the right regarding site conditions. Then enter information in the calculator for the shape that best represents the spill.

Clear All

| Circular Shape Spill | |
|--|--|
| | |
| Enter Diameter (ft) | |
| Enter Average Depth of Liquid Pool (in) | |
| Enter the percentage of the circle that | |
| is covered by the spill | |
| Select Viscosity Dependent Parameter | |
| Is the Average Depth of Liquid | |
| Penetration known? | |
| If known, enter Average Depth of Liquid Penetration Into Soil (in) | |
| Select Surface Type | |
| Estimated Spill Volume (bbls) | |
| Estimated Spill Volume (gals) | |

| Does the spill area have a high slope? | No |
|--|----|
|--|----|

Is the spill area wet from rain?

No

Square or Rectangular Shape spill

| 800 |
|--------------------|
| 2.75 |
| |
| 2 |
| |
| 99% |
| Low (Ex. gasoline, |
| petrol) |
| |
| No |
| |
| |
| |
| |
| 68.0 |
| 2800.0 |
| |

| Oval Shape Spill | |
|--------------------------|--|
| | |
| angth of Short Side (ft) | |

| Litter Length of Short Side (11) | |
|------------------------------------|--|
| Enter Length of Long Side(ft) | |
| Enter Average Depth of Liquid Pool | |
| (in) | |
| Enter the percentage of the oval | |
| that is covered by the spill | |
| Select Viscosity Dependent | |
| Parameter | |
| Is the Average Depth of Liquid | |
| Penetration known? | |
| | |
| If known, enter Average Depth of | |
| Liquid Penetration Into Soil (in) | |
| Select Surface Type | |
| Estimated Spill Volume (bbls) | |
| Estimated Spill Volume (gals) | |
| | |

Irregular Shape Spill

| Cl | and the same | - 4 D | 41 | |
|--------|--------------|-------|----------|----|
| Cnoose | number | OT K | ectangie | 25 |

| Rectangle 1 | |
|---|--|
| Enter Length (ft) | |
| Enter Width (ft) | |
| Enter the percentage of the rectangle | |
| that is covered by the spill | |
| Enter Average Depth of Liquid Pool (in) | |
| Select Viscosity Dependent Parameter | |
| Is the Average Depth of Liquid | |
| Penetration known? | |
| If known, enter Average Depth of | |
| Liquid Penetration Into Soil (in) | |
| Select Surface Type | |
| Estimated Spill Volume of Rectangle | |
| (bbls) | |
| Estimated Spill Volume of Rectangle | |
| (gals) | |

Total Estimated Spill Volume (bbls)

Total Estimated Spill Volume (gals)

For Irregular shape spills, divide the shape into rectangles that roughly encompass the spill area. For more information see Notes Tab. Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 438292

QUESTIONS

| Operator: | OGRID: |
|-------------------------------|---|
| Targa Northern Delaware, LLC. | 331548 |
| 110 W. 7th Street, Suite 2300 | Action Number: |
| Tulsa, OK 74119 | 438292 |
| | Action Type: |
| | [C-141] Initial C-141 (C-141-v-Initial) |

QUESTIONS

| Prerequisites | |
|-------------------|---|
| Incident ID (n#) | nAPP2505860464 |
| Incident Name | NAPP2505860464 CHECK VALVE ON ARENA ROJA 15 CTB @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Received |
| Incident Facility | [fAPP2123031392] TARGA NORTHERN DELAWARE, LLC. |

| Location of Release Source | |
|--|----------------------------------|
| Please answer all the questions in this group. | |
| Site Name | Check valve on Arena Roja 15 CTB |
| Date Release Discovered | 02/27/2025 |
| Surface Owner | Federal |

| Incident Details | |
|--|------------------------|
| Please answer all the questions in this group. | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| Nature and Volume of Release | |
|--|---|
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Valve Produced Water Released: 68 BBL Recovered: 0 BBL Lost: 68 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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QUESTIONS, Page 2

Action 438292

| QUESTI | ONS (continued) | |
|---|---|--|
| Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 | | OGRID: |
| Tulsa, OK 74119 | | 438292 Action Type: [C-141] Initial C-141 (C-141-v-Initial) |
| QUESTIONS | | [6] |
| Nature and Volume of Release (continued) | | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied ve | olumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes | |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. | |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. | e. gas only) are to be submitted on the | he C-129 form. |
| Initial Response | | |
| The responsible party must undertake the following actions immediately unless they could create a s | afety hazard that would result in inju | ıry. |
| The source of the release has been stopped | True | • |
| The impacted area has been secured to protect human health and the environment | True | |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True | |
| All free liquids and recoverable materials have been removed and managed appropriately | True | |
| If all the actions described above have not been undertaken, explain why | Not answered. | |
| Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e | ted or if the release occurred within a | a lined containment area (see Subparagraph (a) of Paragraph (5) of |
| I hereby certify that the information given above is true and complete to the best of my keep to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations. | ases which may endanger publi adequately investigate and remo | c health or the environment. The acceptance of a C-141 report by ediate contamination that pose a threat to groundwater, surface |
| I hereby agree and sign off to the above statement | Name: Joseph Austin Title: Environmental Sepciali Email: jaustin@targaresourd Date: 03/03/2025 | |

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QUESTIONS, Page 3

Action 438292

QUESTIONS (continued)

| Operator: | OGRID: |
|-------------------------------|---|
| Targa Northern Delaware, LLC. | 331548 |
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| | Action Type: |
| | [C-141] Initial C-141 (C-141-v-Initial) |
| | |

QUESTIONS Site Characterization Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse Not answered Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered. An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered. Categorize the risk of this well / site being in a karst geology A 100-year floodplain Not answered. Did the release impact areas not on an exploration, development, production, or Not answered. storage site

| Remediation Plan | | | |
|--|----|--|--|
| Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. | | | |
| Requesting a remediation plan approval with this submission | No | | |
| The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to | | | |

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CONDITIONS

Action 438292

CONDITIONS

| | 0.0010 |
|-------------------------------|---|
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CONDITIONS

| Created E | By Condition | Condition Date |
|-----------|--------------|-------------------|
| scwells | s None | 3/3/2025 |