

State of New Mexico Energy Minerals and Natural Resources

Revised September 2022

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GROUND WATER DISCHARGE PERMIT APPLICATION FORM GUIDELINES

The following is a general format for a Ground Water Discharge Permit Application. The Ground Water Discharge Permit Application must consist of a complete plan for addressing all intentional and potential discharges at a given site. The Ground Water Discharge Permit Application must include the information specified in WQCC 20.6.2.3106(D) NMAC, the applicable information required in 20.6.2.3107(A) NMAC, and the public notice requirements specified in 20.6.2.3108(A) NMAC. Additional site-specific information should be included where appropriate. This FORM is meant to be used in conjunction with the "GUIDANCE DOCUMENT FOR GROUND WATER DISCHARGE PERMIT APPLICATIONS AT REFINERIES, NATURAL GAS PLANTS, WELL PAD TANK BATTERIES, GAS COMPRESSOR STATIONS, CRUDE OIL PUMP STATIONS, AND OIL AND GAS SERVICE COMPANIES," which includes discharge permit application instructions.

Facility Description*

- Provide addresses, emails, and phone numbers of operator, facility contact person, legally responsible party, and landowner. Also include Operator OGRID number.
- Describe type of facility (refinery, gas processing plant, well pad tank battery, gas compressor station, crude oil pump station, oil field service company, etc.).
- Provide location of facility by Public Land Survey System Designation, latitude/longitude, address of facility, and by highway access description.
- Facility map(s) and diagram(s) indicating location of fences, pits, berms, tanks, loading areas, storage facilities, disposal facilities, processing facilities, wastewater treatment facilities, monitoring wells, and facility/property boundaries.

Site Characteristics*

• Provide the hydrologic/geologic information as specified in the guidance document. Include supporting attachments and/or reference materials.

Potential and Intentional Discharges*

For each area of storage and collection systems, including containerized material:

Ensure that all materials used or stored at the facility are addressed. For each source, provide
summary information including the general composition of the material or specific information
(e.g., brand name), whether a solid or liquid, type of container (tank, drum, pit, sump, etc.),
estimated volume stored, description of the primary and secondary containment, lined or unlined
containment (if lined, describe lining material), and location (yard, shop, drum storage, etc.).

For each present source of effluent and waste streams:

Ensure that all intentional and potential discharges are addressed. For each source include types
of major effluent/waste (e.g., produced water, spent gas treating fluids, heat media,
hydrocarbons, sewage, etc.). Provide estimated quantities in barrels or gallons, volumetric flow
rates (if applicable), location (yard, shop, drum storage, etc.), and types and volumes of major
additives (e.g., acids, biocides, detergents from steam cleaner, degreasers, corrosion inhibitors
etc.).

Collection and Storage Systems*

• For collection and storage systems, provide sufficient information to determine what water contaminants may be discharged to the surface and subsurface within the facility.

Inspection, Maintenance, and Reporting*

• Include a routine inspection and maintenance plan to ensure permit compliance.

Proposed Modifications*

• Include a description of proposed modifications to existing collection/treatment/disposal systems.

Contingency Plan for Releases*

• Include a contingency plan that anticipates where any leaks or spills might occur. The contingency plan must describe how the applicant proposes to guard against such accidents and detect them when they have occurred.

Public Notice*

• Include all the information required by Paragraphs (1) through (5) of Subsection F of 20.6.2.3108 NMAC and indicate, for department approval, the proposed locations and newspaper for providing notice required by Paragraphs (1) and (4) of Subsection B or Paragraph (2) of Subsection C of 20.6.2.3108 NMAC.

Additional Information*

• Additional site-specific information should be included where appropriate.

Facility Closure/Post Closure Plan*

• Attach a facility Closure/Post Closure Plan and other necessary information to demonstrate compliance with 20.6.2.3107(A)(11) NMAC.

Financial Assurance*

• The facility must submit acceptable financial assurance in the amount of the facility's estimated closure and post closure cost within 30-days of OCD's approval of the Closure/Post Closure Plan.

Ground Water Discharge Permit Application and Permit Fees*

 WQCC 20.6.2.3114 NMAC requires every facility submitting a discharge permit application for approval, modification, or renewal to pay the permit fees specified in Table 1 of this section and pay a filing fee as specified in Table 2 of this section to the Water Quality Management Fund.

Certification

- Include a certification statement: CERTIFICATION: I hereby certify that the information submitted with this application is true, accurate, and complete to the best of my knowledge and belief.
- * This FORM is meant to be used in conjunction with the "GUIDANCE DOCUMENT FOR GROUND WATER DISCHARGE PERMIT APPLICATIONS AT REFINERIES, NATURAL GAS PLANTS, WELL PAD TANK BATTERIES, GAS COMPRESSOR STATIONS, CRUDE OIL PUMP STATIONS, AND OIL AND GAS SERVICE COMPANIES"; refer to this document for all required information.

GUIDANCE DOCUMENT FOR GROUND WATER DISCHARGE PERMIT APPLICATIONS AT REFINERIES, NATURAL GAS PLANTS, WELL PAD TANK BATTERIES, GAS COMPRESSOR STATIONS, CRUDE OIL PUMP STATIONS, AND OIL AND GAS SERVICE COMPANIES (REVISED 9-2022)

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. SANTA FE, NEW MEXICO 87505 PHONE: (505) 476-3441

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Purpose of a Ground Water Discharge Permit

The Water Quality Control Commission (WQCC) 20.6.2.1201.A(1) NMAC states, "Notices regarding discharges from facilities for the production, refinement, pipeline transmission of oil and gas or products thereof, the oil field service industry as related to oil and gas production activities, oil field brine production wells, and carbon dioxide facilities shall be filed with the oil conservation division of the energy, minerals and natural resources department." WQCC Regulations 20.6.2.3104 and 20.6.2.3106 NMAC stipulate that, unless otherwise provided for by regulation, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into the ground water unless such discharge is pursuant to a discharge permit approved by the director. The Oil and Gas Act (NMSA 1978, Section 70-2-12.B(22)) authorizes the New Mexico Oil Conservation Division (OCD) to regulate the disposition of non-domestic, non-hazardous wastes from facilities for the production, refinement, pipeline transmission of oil and gas or products thereof, the oil field service industry as related to oil and gas production activities, oil field brine production wells, and carbon dioxide facilities in order to protect public health and the environment. The OCD has combined these requirements into one document, a "discharge permit" that will provide protection to ground water, surface water, and the environment through proper regulation of the transfer and storage of fluids at the facility and disposal of waste liquids and solids.

The discharge permit considers intentional discharges as well as potential discharges from a facility. Inadvertent discharges of liquids (i.e., leaks and spills, or any type of accidental discharge of contaminants) or improper disposal of waste solids have a potential to cause ground water contamination or threaten public health and the environment. Therefore, a facility having no intentional discharges can still require a Discharge Permit if the facility has a potential for such discharges. The Discharge Permit Application must address surface facility operations including all areas of containerized material, storage pits, tankage, product storage areas, loading areas, effluent/waste treatment, stormwater management, and known ongoing ground water impacts, etc.

Applying for Ground Water Discharge Permits

The Ground Water Discharge Permit Application serves as an application for a Ground Water Discharge Permit. To assist permit applicants, Form Guidelines can be found on OCD's forms page at https://www.emnrd.nm.gov/ocd/ocd-forms/. The outlined Form along with this guidance document should be followed to ensure an expedited review for OCD approval.

The Ground Water Discharge Permit Application shall set forth in detail the methods or techniques the permit applicant proposes to use which will ensure compliance with WQCC regulations and the Oil and Gas Act. The permit applicant's proposed Ground Water Discharge Permit Application must provide OCD's technical staff and director with sufficient information about the facility's operation to demonstrate that the discharger's activities will not cause a violation of state regulations or ground water standards (WQCC 20.6.2.3103 NMAC). The Ground Water Discharge Permit Application must include the information specified in WQCC 20.6.2.3106(D) NMAC, the applicable information required in 20.6.2.3107(A) NMAC, and the public notice requirements specified in 20.6.2.3108(A) NMAC.

Facility Types Required to Obtain a Ground Water Discharge Permit

OCD regulates disposal of non-domestic, non-hazardous wastes resulting from the activities at facilities for the production, refinement, pipeline transmission of oil and gas or products thereof, the oil field service industry as related to oil and gas production activities, oil field brine production wells, and carbon dioxide facilities pursuant to authority granted in the New Mexico Oil and Gas Act and the Water Quality Act. OCD administers, through delegation by WQCC, all Water Quality Act regulations pertaining to surface and ground water except sewage. However, if the sewage is in a combined waste stream, the OCD will have jurisdiction.

Fees and Submittal for a Ground Water Discharge Permit

A completed Ground Water Discharge Permit Application, including date and signature, must be submitted via OCD's E-Permitting System (use tag [UF-DP] Discharge Permit when uploading your application) along with the filing fee described in WQCC 20.6.2.3114 NMAC, TABLE 2. The filing fee must be made payable to the "Water Quality Management Fund" and sent to the below address:

Water Quality Management Fund
Oil Conservation Division
Attn: Environmental Administrative Permitting Supervisor
1220 South St. Francis Dr.
Santa Fe, NM 87505.

Once OCD determines a discharge permit can be issued, the applicant must make payable to the Water Quality Management Fund the associated permit fee as indicated in WQCC 20.6.2.3114 NMAC, TABLE 1. Note, well pad tank batteries do not currently have a fee identified in TABLE 1 but must pay the fee associated with Gas Compressor Stations > 1001 Horsepower. All permit fees are to be sent to the above address.

Timelines for Discharge Permit Applications

New or proposed facilities are required to submit a discharge permit application as soon as practical but no later than 30-days after facility start-up. WQCC 20.6.2.3106(B) NMAC specifies that "for good cause shown the secretary may allow such person to discharge without a discharge permit for a period not to exceed 120 days." To qualify for this exception, written approval must be granted prior to the discharge occurring or an operation start-up occurring.

For those facilities that began operation after June 18, 1977, and received notification from the Director that a discharge permit application is required, the discharge permit application must be submitted to OCD's E-Permitting system within 60 days of the notification date.

For those facilities that were in operation before or on June 18, 1977, and received notification from the Director that a discharge permit application is required, the discharge permit application must be submitted to OCD's E-Permitting system within 120 days of the notification date.

Next Steps in the Permit Process

After a Ground Water Discharge Permit Application has been deemed administratively complete by the OCD, the applicant is required to conduct public notice. In addition, OCD must publish a public notice and allow 30 days for public comment before a Discharge Permit may be approved or otherwise resolved. If significant public interest is indicated, a public hearing will be held before the OCD which will delay a decision on permit approval.

The review of a Ground Water Discharge Permit Application can require several months depending on complexity. This includes time for requests to the discharger for additional information and clarification, in-house information gathering and analysis, field investigations of the discharge site, and a public notice and comment period. Review time will be dependent on the extent to which a facility has generally self-contained processes to prevent movement of fluids and leaching of solids from the work area into the environment.

For example, the review process will be expedited when effluent, process, or other fluids are routed to tanks, or double lined pits with underdrains for leak detection, when accurate monitoring of fluid volumes and pressure and/or integrity testing is performed for leak detection in below grade or underground tanks, and when the possibility of accidental spills and leaks is addressed by adequate contingency plans (e.g., proper secondary containment and established response plans). Other examples allowing faster review include recycling of used lube oils, proper disposal of dried sludges to minimize potential ground water

contamination, and closure of previously used ponds. The more rapid review of Ground Water Discharge Permit Applications for such facilities is possible because much less geologic and hydrologic study of the site is required to delineate impact.

Similarly, longer review times will be required for operators seeking to continue to use unlined ponds or to utilize other procedures that have a high probability of allowing infiltration and movement of effluent and leachate to the subsurface. For these instances, large amounts of technical data generally will be required including: 1) detailed information on site hydrogeology, natural and current water quality, and movement of contaminants; 2) processes expected to occur in the vadose and saturated zones to attenuate constituents to meet WQCC standards at a place of present or reasonably foreseeable future use of ground water; and 3) monitoring of ground water (including post operational monitoring as necessary).

If an operator desires to change or modify effluent or solid waste disposal practices, it is not necessary to have completed all such changes prior to permit approval. A commitment to make the changes together with submittal of proposed modification details and a timely completion schedule can be included in the permit application. These become permit requirements after the application is approved.

After Issuance of a Permit

Once a Ground Water Discharge Permit Application has been approved and an accompanying permit is issued, discharges must be consistent with the terms and conditions of the permit application and permit. Similarly, if there is any facility expansion or process change that would result in any significant modification of the approved discharge of water contaminants, such as adding and/or retrofitting a pond, expanding and/or adding a wastewater treatment facility, etc., the discharger is required to notify the OCD, and have the modification approved prior to implementation. Approval of a Ground Water Discharge Permit Application and issuance of a Ground Water Discharge Permit by OCD will not relieve the operator of compliance with other applicable state and federal regulations.

Additional Instructions for a Ground Water Discharge Permit Application

The following Ground Water Discharge Permit Application instructions have been prepared for use by the permit applicant to aid in fulfilling the requirements of WQCC 20.6.2.3106, 20.6.2.3107, and 20.6.2.3108 NMAC and to expedite the review process by minimizing OCD requests for additional information. The format of the Ground Water Discharge Permit Application should follow the Form Guidelines found on

OCD's forms page at https://www.emnrd.nm.gov/ocd/ocd-forms/. The outlined form along with this guidance document should be followed to ensure an expedited review for OCD approval.

OCD suggests you read this entire document before preparing your application. Not all information discussed may be applicable to your facility. If there are any questions on the preparation of a Discharge Permit Application, please contact OCD's Environmental Bureau, Administrative Permitting Section by telephone at (505) 476-3441 or by email at OCD.DischargePermits@emnrd.nm.gov.

DISCHARGE PERMIT APPLICATION INSTRUCTIONS

Facility Description

The Ground Water Discharge Permit Application must indicate the operational purpose(s) of the facility (if a compressor station, include the total combined site rated horsepower) and include the operator, legally responsible party, facility contact, landowner name(s) along with contact information (e.g., address, phone number, and email), Facility ID, and Operator OGRID number.

The Ground Water Discharge Permit Application must provide a legal description of the location (e.g., 1/4, 1/4, Section, Township, Range) and county, including latitude/longitude. The Ground Water Discharge Permit Application needs to include a large-scale topographic map, facility site plan, or detailed aerial photograph for use in conjunction with the written material. If within an incorporated city, town or village also provide a street location and map.

The Ground Water Discharge Permit Application must also include a facility description along with diagrams indicating location of fences, pits/ponds, berms, tanks, loading areas, storage facilities, disposal facilities, processing facilities, wastewater treatment facilities, monitoring wells, and facility/property boundaries.

Site Characteristics

The following hydrologic/geologic information is required to be submitted in all Ground Water Discharge Permit Applications along with supporting attachments and/or reference materials:

- 1. General description of topography, elevations, and vegetation types;
- 2. Soil type(s), (sand, clay, loam, caliche);
- 3. Name, description, and location of any bodies of water, streams (indicate perennial or intermittent), or other watercourses (arroyos, canals, drains, etc.) and ground water discharge sites (seeps, springs, marshes, swamps) within one mile of the outside perimeter of the facility;

- 4. Location of ground water monitoring wells (existing and proposed) within and one mile outside of the facility boundary:
- 5. Location of water wells within one-quarter mile of the outside perimeter of the facility, specify use of water (e.g., public supply, domestic, stock, etc.);
- 6. Name of aquifer(s), including composition of aquifer material (e.g., alluvium, sandstone, basalt, etc.);
- 7. Depth to and lithological description of rock at base of alluvium below the discharge site (if available);
- 8. Explain the flooding potential at the facility with respect to major precipitation and/or run-off events. Is any part of the facility in a flood plain or has there been any historical flooding at this location? Describe flood protection measures (berms, channels, etc.), if applicable; and
- 9. Provide the depth to ground water, and total dissolved solids (TDS) concentration (in mg/l) of the ground water most likely to affect each potential discharge point. Include the source of the TDS information and how it was determined. Provide a recent water quality analysis of the ground water, if available, including name of analyzing laboratory and sample date.

Potential and Intentional Discharges

For each area of storage and collection systems, including containerized material:

Ensure that all materials used or stored at the facility are addressed. For each source, provide summary information including the general composition of the material or specific information (e.g., brand name), whether a solid or liquid, type of container (tank, drum, pit, sump, etc.), estimated volume stored, description of the primary and secondary containment, lined or unlined containment (if lined, describe lining material), and location (yard, shop, drum storage, etc.). Examples of **Materials Stored or Used at the Facility** are as follows (but are not limited to):

Process specific chemicals, i.e., TEG, Amine, Lean Oil, etc.	Paraffin Treatment/Emulsion breakers
Acids/Caustics	Biocides
Detergents/soaps	Solvents, inhibitors, and degreasers
Diesel/used oil	Condensate/Produced Water

For each present source of effluent and waste streams:

Ensure that all intentional and potential discharges are addressed. For each source include types of major effluent/waste (e.g., produced water, spent gas treating fluids, heat media, hydrocarbons, sewage, etc.).

Provide estimated quantities in barrels or gallons, volumetric flow rates (if applicable), and types and volumes of major additives (e.g., acids, biocides, detergents from steam cleaner, degreasers, corrosion inhibitors etc.), and location (yard, shop, drum storage, etc.). Some examples are (but are not limited to):

Separators, Scrubbers, and Slug Catchers	Used lube oil and process filters
Boilers, Waste Heat Recovery Units, cogeneration	Sewage (Indicate if other wastes are mixed with
facilities, and cooling towers/fans	sewage; if no commingling occurs then domestic
	sewage is under jurisdiction of the NMED)
Wash down/Steam out effluent from process and	Other waste solids (e.g., used drums, molecular
storage equipment internals and externals	sieve materials, charcoal filter media, etc.)
Solvent/degreaser use	Painting wastes
Spent acids or caustics	Laboratory wastes
Used engine coolants (i.e., antifreeze)	Solids and sludges from tanks
Used lubrication and motor oils	Other waste liquids
Wastewater Treatment Plant Effluent	

Provide the following information for each identified source, where applicable, based on process knowledge and/or sampling results (e.g., for intentional/potential/known discharges, etc.):

- 1. Provide concentration analysis for Total Dissolved Solids (TDS) and Major Cations/Anions (e.g., F, Br, Ca, K, Mg, Na, HCO3, CO3, Cl, SO4 in mg/l), pH, and Conductivity in umhos/cm.
- 2. Provide hydrocarbon analysis for benzene, ethyl benzene, toluene, and meta-, ortho-, and Para-xylene (i.e., BTEX).
- 3. Provide analyses for WQCC 2.6.2.3103 NMAC standards not included within above analyses. Exceptions can be approved upon request for certain constituents if not used in processing or not expected to be present in the wastewater effluent.
- 4. Discuss the presence of toxic pollutants in each process where a discharge/possible discharge effluent may be generated. Provide volumes and concentrations. Estimates may be used pending OCD Director evaluation of Discharge Permit Application submittal and proposed discharge methods.
- 5. Discuss sampling locations, methods, and procedures used to obtain values for #1, 2, and 3 above. Include information as to whether the sample was "grab" or "time-composite," and sample collection and preservation techniques, laboratory used for the analysis, etc. Sources for sampling and analytical techniques to be used are listed in WQCC 20.6.2.3107(B) NMAC.
- 6. Discuss any variations that could produce higher or lower values than those shown by the sampling procedures outlined above in #5 (e.g., flowrate variations, process upsets, etc.). If

major variations are expected or inherent with a particular process, provide ranges and the expected average.

On-Site Disposal: Describe each existing on-site location used for effluent/solids discharge disposal of water, sludges, waste oils, solvents, etc., including surface impoundments, disposal pits, leach fields, floor drains, injection wells, and landfarms, etc. Locate all disposal areas on the facility site plan or topographic map.

Off-Site Disposal: If wastewater, sludges, solids, etc. are pumped or shipped off-site, indicate general composition (e.g., waste oils), method of shipment (e.g., pipeline, trucked), and final disposition (e.g., recycling plant, OCD permitted Class II disposal well, or domestic landfill, etc.). Include name, address, and location of receiving facility. If receiving facility is a sanitary or modified landfill, show operator approval for disposal of the shipped wastes.

Commingled Waste Streams: It is recommended that waste streams be segregated as much as possible-especially those wastes that are exempt from RCRA Subtitle C regulations and those that are non-exempt. If hazardous wastes are on-site, they should never be commingled with exempt wastes or non-exempt non-hazardous wastes. For guidance in dealing with hazardous waste(s) contact the NMED Hazardous Waste Bureau at 505-476-6000. If produced and process fluids are commingled within the facility, and if individual rates, volumes, and concentrations do not vary beyond a set range, and if process units are entirely self-contained to prevent intentional discharges and spills or inadvertent discharges, then chemical characterization of commingled effluent or process streams may be sufficient to satisfy Discharge Permit Application requirements. If the discharger wishes to submit information on commingled streams in lieu of submittal of individual stream characteristics, adequate information should be provided to justify the request.

Ground Water Contamination: Indicate if ground water impacts have been found at the site, or if there is no current method for monitoring ground water at the time of application. If ground water impacts have been found, explain possible sources and briefly describe efforts to remediate the impacts. Reference remediation plans and reports if applicable.

Stormwater Management: Describe how stormwater is managed on-site including flow direction and if the stormwater is non-contact versus contact (i.e., stormwater that comes in contact with a pollutant such as hydrocarbons, etc.). Describe what measures are in place to prevent run-off and run-on. Also, describe any treatment process of collected stormwater and any retention ponds/basins. If applicable, describe retention pond/basin capacity, if they are lined or unlined (if lined, describe material), and provide location on figure(s).

Disposal methods: Provide technical data on the design elements of each disposal method. Some examples are:

- 1. Surface impoundment Report the date built, use, type and volume of effluent stored, area, volume, depth, slope of pond sides, sub-grade description, liner type and thickness, compatibility of liner and effluent, installation methods, leak detection methods and frequency checked, freeboard, run-off/run-on protection.
- 2. Leach fields Type and volume of effluent and leach field design layout. If non-sewage or mixed flow from any process unit or internal drains is, or has been, sent to the leach fields, include date(s) of use and disposition of septic tank sludges.
- 3. Injection wells Describe effluent injected, volume, depth, formation, OCD order number and approval date. If the injection well has been issued a discharge permit, reference the permit number and the expiration date. The effluent must not be classified as a hazardous waste at the time of injection, unless the effluent is being injected into a Class I Hazardous Waste Injection well meeting the requirements of 20.6.2.5300 NMAC. Note, any sump, floor drain, or hole deeper than wide used for subsurface emplacement of fluids may be considered an injection well unless its integrity to contain fluids can be demonstrated. Class II injection wells are required to have an OCD permit and can only inject produced water or other waste fluids brought to the surface that are Exempt from RCRA Subtitle C Hazardous Waste regulations. A Part 5 WQCC Class I Non-Hazardous Discharge Permit approval will be required if the injection well is used to dispose of Non-Exempt, Non-Hazardous effluent. The effluent cannot be classified as a Hazardous Waste by characteristics or listing as spelled out in RCRA Subtitle C.
- 4. Drying beds or other pits Types and volumes of waste, area, capacity, liner, clean-out interval and method, and ultimate disposal location.
- 5. Solids disposal Describe types of, volumes, frequency and location of on-site solids disposal. Types of solids include sands, sludges, filters, containers, cans, and drums, etc.
- 6. Landfarms Describe the surface dimensions of the landfarm area and the operational and monitoring procedures, as well as soil types and containment. If the landfarm has been permitted, reference the permit number/registration and expiration date.
- 7. Leach fields, pits, and surface impoundments having single liners of any composition, clay liners or that are unlined and not proposed to be modified or closed as part of this Discharge Permit Application:
 - a. Describe the existing and proposed measures to prevent or retard seepage such that ground water at any place of present or future use will meet WQCC 20.6.2.3103 NMAC, and not contain any toxic pollutants.
 - b. Provide the location and design of site(s) and method(s) to be available for effluent sampling and for measurement or calculation of flow rates. Describe the monitoring

- system existing or proposed in the permit application to detect leakage or failure of the discharge system.
- c. If ground water monitoring exists or is proposed, provide information on the number, location, design, and installation of monitoring wells.

Collection and Storage Systems

For collection and storage systems, provide sufficient information to determine what water contaminants may be discharged to the surface and subsurface within the facility. Water and wastewater flow schematics may be used provided they have sufficient detail to show individual treatment units. Information desired includes whether tanks, piping, and pipelines are pressurized, above-ground or buried. If fluids are drained to surface impoundments, oil skimmer pits, emergency pits, shop floor drains, sumps, etc. for further transfer and processing, provide size (volume) and indicate if these collection units are lined or unlined. If lined, describe lining material (e.g., concrete, steel tank, synthetic liner, etc.).

Tankage and Chemical Storage Areas: Storage tanks for fluids other than fresh water should be bermed to contain a volume one-third more than the largest tank. If tanks are manifolded, the berm should be designed to contain a volume one-third more than the total volume of the manifolded tanks. All new tank installations should be placed on an impermeable pad. Chemical and drum storage areas should be paved, curbed, and drained such that spills or leaks from drums are contained on the pads or in lined sumps.

Buried Piping: All facilities should demonstrate the integrity of buried piping. If the facility contains underground process or wastewater pipelines the age and specifications (i.e., wall thickness, fabrication material, etc.) of said pipelines should be submitted. A proposed hydrostatic test method and schedule for testing of piping should be included as part of the submittal. All lines should be tested to a pressure of 3 pounds per square inch above the normal operating pressure in the line, and a duration time for the test will also be proposed for OCD approval. If hydrostatic tests have already been conducted, details of the program and the results should be submitted.

Inspection, Maintenance, and Reporting

Describe existing and proposed routine inspection procedures for facility operations to prevent potential releases, including surface impoundments and other process/disposal units having leak detection systems. Include frequency of inspection, how records are to be maintained, and repair process procedures in the event of a release and/or leak detection. If ground water monitoring is used to detect leakage on failure of the surface impoundments, leach fields, or other approved disposal systems provide:

- 1. The frequency of sampling and constituents to be analyzed.
- 2. The proposed periodic reporting of the results of the monitoring and sampling.
- 3. The proposed actions and procedures (including OCD notification) to be undertaken by the discharger in the event of detecting leaks or failure of the discharge system.

Discuss general procedures for containment of precipitation and run-off such that water in contact with process areas does not leave the facility or is released only after testing for hazardous constituents. Include information on curbing, drainage, disposition, notification, etc.

Proposed Modifications

If collection and storage systems do not meet the necessary criteria, or if protection of ground water cannot be demonstrated, describe what modification of that particular method (including closure), or what new facility, is proposed to meet the requirements of the Regulations. Describe in detail the proposed changes. Provide the proposed time schedule for construction and completion. (Note: OCD has developed specific guidelines for lined surface impoundments, land farms, below grade tanks, and closure guidelines that are available upon request.)

For ponds, pits, leach fields, etc. where protection of ground water cannot be demonstrated, describe the proposed closure of such units so that existing fluids are removed, and emplacement of additional fluids and runoff/run on of precipitation are prevented. Provide a proposed time schedule for closure. (Note: The OCD has closure guidelines that are available upon request.)

Spill/Leak Prevention and Reporting Procedures (Contingency Plan for Releases)

The Ground Water Discharge Permit Application must include a contingency plan that anticipates where any leaks or spills might occur. The contingency plan must describe how the applicant proposes to guard against such accidents and detect them when they have occurred. The contingency plan must describe the steps proposed to contain and remove the spilled substance or mitigate the damage caused by the discharge such that ground water is protected, or movement into surface waters is prevented. The discharger will be required to notify the OCD of releases and this commitment must be included in the contingency plan. The notification requirements for any discharge subject to 20.6.2.1203 NMAC does not define a threshold limit for reporting purposes. Therefore, all discharges and/or releases, regardless of the amount released, shall be reported to OCD's Administrative Permitting Section via OCD's E-Permitting System on Form C-141 within the required timeframe (i.e., within 24 hours of discovery of the release for a release meeting the criteria in section 19.15.29.7(A) NMAC or within 15 days after discovering any other

discharge and/or release regardless of the amount released). The contingency plan must describe proposed procedures addressing containment, cleanup, and reporting of spills that occur at the facility. Include information as to whether areas are curbed, paved, and drained to sumps; final disposition of spill material; proposed schedule for OCD notification of spills; etc. Also describe methods used to detect leaks and ensure integrity of above and below ground tanks and piping. Discuss frequency of inspection and procedures to be undertaken if leaks are detected.

If an injection well is used for on-site effluent disposal, describe the procedures to be followed to prevent unauthorized discharges to the surface or subsurface in the event the disposal well or disposal line is shut-in for work over or repairs (e.g., extra storage tanks, emergency pond, shipment offsite, etc.). Address actions to be taken in the event of disposal pipeline failure, extended disposal well downtime, etc.

Public Notice

For a Ground Water Discharge Permit Application to be deemed administratively complete, the application must include all the information required by Paragraphs (1) through (5) of Subsection F of 20.6.2.3108 NMAC and shall indicate, for OCD approval, the proposed locations and newspaper for providing public notice required by Paragraphs (1) and (4) of Subsection B or Paragraph (2) of Subsection C of 20.6.2.3108 NMAC.

Additional Information

Provide any additional information necessary to demonstrate that approval of the Discharge Permit Application will not result in concentrations more than the standards of WQCC 20.6.2.3103 NMAC, or the presence of any toxic pollutants at any place of withdrawal of water for present or reasonably foreseeable future use. Depending on the method and location of discharge, detailed technical information on site hydrologic and geologic conditions may be required to be submitted for Discharge Permit Application evaluation. This material is most likely to be required for unlined surface impoundments and pits, and leach fields. Check with OCD before providing this information. The below additional information may be required but is not limited to the following:

- 1. Generalized maps and cross-sections;
- 2. Potentiometric maps for aquifers potentially affected;
- 3. Porosity, hydraulic conductivity, storativity and other hydrologic parameters of the aquifer;
- 4. Stratigraphic information including formation and member names, thickness, lithologies, lateral extent, etc.;

- 5. Specific information on the water quality of the receiving aquifer; and
- 6. Information on expected alteration of contaminants due to sorption, precipitation, or chemical reaction in the unsaturated zone, and expected reactions and/or dilution in the aquifer.

Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. Examples include previous Division orders or letters authorizing operation of the facility or any surface impoundments at the location.

Facility Closure/Post Closure Plan

The Ground Water Discharge Permit Application must include a Closure/Post Closure Plan. The Closure/Post Closure Plan shall include all the information described in WQCC 20.6.2.3107(A)(11) NMAC and should reference OCD guidelines for accepted remediation techniques and other closure guidelines. 20.6.2.3107(A)(11) NMAC states the following:

"a closure plan to prevent the exceedance of standards of 20.6.2.3103 NMAC in ground water after the cessation of operation which includes: a description of closure measures, maintenance and monitoring plans, post-closure maintenance and monitoring plans, financial assurance, and other measures necessary to prevent or abate such contamination; the obligation to implement the closure plan as well as the requirements of the closure plan, if any is required, survives the termination or expiration of the permit; a closure plan for any underground injection control well must also incorporate the applicable requirements of 20.6.2.5005, 20.6.2.5209, and 20.6.2.5361 NMAC."

Some examples addressed in the Closure/Post Closure Plan may include but are not limited to the following:

- 1. The emptying of fluids/contents from tanks and equipment.
- 2. The proper disposal of tanks and equipment.
- 3. Sampling and clean-up of historical releases that could not be remediated due to infrastructure while in operation.
- 4. Site sampling strategy such as creating a gridded plat of the site containing at least 4 equal sections.
- 5. Re-vegetation of the site.
- 6. Ongoing monitoring and maintenance of the re-vegetation for two successive growing sessions.
- 7. Ongoing monitoring and maintenance of ground water monitoring wells if applicable and annual report submittals to the OCD.

Financial Assurance

20.6.2.3107(A)(11) NMAC requires that financial assurance be submitted to the OCD as part of the facility's Closure/Post Closure Plan. The facility must submit acceptable financial assurance in the amount of the facility's estimated closure and post closure cost within 30-days of OCD's approval of the Closure/Post Closure Plan. The financial assurance must be on OCD-prescribed forms, or forms otherwise acceptable to the OCD, payable to the OCD.