

Storm Water Pollution Prevention Plan (EXAMPLE)

in compliance with US Environmental Protection Agency Construction General Permit

Que Family Feedlot – New Construction
 CGP IDR100000 (Tracking No. IDR00AA00)
 Idaho Contracting, Inc.
 100 Main Street
 Boise, Idaho 83709

PROJECT DESCRIPTION

Project Name and Location:	Que Family Feedlot Waste Management System Corner of Elm Lane and Windy Road Caldwell, ID
Owner Name and Address:	Barbie Que 10 Orchard Lane Middleton, ID
Project Description (purpose and types of soil-disturbing activities):	<p>This project will consist of the construction of a waste management system for a feedlot in Canyon County..</p> <p>Soil disturbing activities will include:</p> <ul style="list-style-type: none"> ▪ Clearing ▪ Installing a perimeter berm and other needed erosion and sediment controls ▪ Grading of the corral area ▪ Excavation for the freestall barn and manure storage area foundations, storage pond, and utilities and pipelines ▪ Preparation for final planting to stabilize areas
Sequence of Major Activities (refer to ATTACHMENT 2 for activities and associated dates):	<p>The general order of activities will be as follows:</p> <ol style="list-style-type: none"> 1. Install stabilized construction entrance 2. Clearing and stripping for earth dike and waste storage pond 3. Install earth dike, starting at the downslope side 4. Construct waste storage pond 5. Continue clearing and grading 6. Stabilize denuded areas with mulch 7. Excavate and pour building foundations 8. Construct buildings and install utilities and pipes 9. Complete grading and install fence around pond 10. Install permanent vegetation plantings/seedings 11. Remove accumulated sediment from pond

SITE EVALUTION AND ASSESSMENT

Site description narrative to include the following information:

The site is located at the corner of Elm Lane and Windy Road, on slopes between 2 and 5% and approximately ¼ mile upslope from the Boise River (43.7089 latitude, -116.5466 longitude, approximately 700 m elevation).

The area of the project site is 25 acres, approximately 70% will be disturbed during construction of the waste management system.

Average annual rainfall is 11.13 inches, the majority of which falls during the winter and spring seasons. Rainfall during the anticipated construction period (May-July) averages less than 1" each month. May has an average rainfall of 1.13 inches for the month, and only 2 in 10 years will rainfall exceed 1.71 inches. Typically rainfall (greater than 0.1 inch) will occur only 3 days during the month. The runoff coefficient for this type of unpaved feedlot is 0.25.

Soils of the project area are mainly in the Power and Purdam series, moderately to well drained silt loams and loams. These soils have moderate permeability and runoff is slow to moderate, so there is some erosion hazard on these soils which must be addressed. A hardpan can run close to the surface in some areas.

According to the Idaho Conservation Data Center and USFWS, threatened and endangered species present in Canyon County include gray wolf, Ute's ladies tresses, and bald eagle. None of these species is located within the project site. The entire Boise River corridor is wintering bald eagle habitat, although the majority of winter use is further upstream. Construction activities will not impact bald eagles since the time period of construction will occur after the winter use period.

The Lower Boise River TMDL (IDEQ 2000) addresses sediment and bacteria on the portion of the Boise River where the feedlot drains into. The TMDL implementation plan has been completed, and the feedlot is located in a priority area identified in the implementation plan where the installation of these types of conservation practices is encouraged. The erosion control measures used during and post construction are consistent with the requirements of the urban/suburban section of the implementation plan which addresses stormwater management.

Nearby point discharges include the City of Caldwell WWTP outfall, and the MacKenzie feedlot. These discharges are within 2 miles of the project area and are shown on the site map.

Refer to site map(s) (ATTACHMENT 1) for specific site information referenced above and layout and design of project and controls.

POLLUTION CONTROL MEASURES

EROSION AND SEDIMENT CONTROLS

Pollution prevention practices consider the following basics:

Minimize disturbance of vegetated areas

Minimize cut and fill

Minimize impacts to sensitive areas (steep or unstable slopes, surface waters/wetlands, erodible soils, existing drainage channels)

Check all that apply:

Non-structural practices

- Sequence construction to reduce amount and duration of exposure
- Preserve existing vegetation
- Use seeding or mulching to protect soil surface
- Provide temporary stabilization of exposed areas
- Use of spray water to reduce dust and wind erosion
- Sweep sediment from paved areas
- Other practices (list)**

Structural practices

- Stabilize construction site entrance
- Use sediment barriers (hay bales, fiber rolls, silt fences, etc.) to keep soil on-site (describe) silt fence will be used to catch sediment prior to entering the pond
- Grading to provide swales or other ponding areas during wet season
- Use of terraces or contours
- Use of sediment basins
- Use of diversions, dikes or berms (describe) permanent earthen dike will be constructed around the confinement area
- Use of check dams
- Other practices (list)**

Other controls (waste disposal, off site vehicle tracking, etc.)

- Provide sufficient quantity of covered waste bins to keep site clean
- Collect trash daily and provide for regular waste collection
- Segregate and recycle waste materials
- Locate waste containers away from water bodies
- Secondary containment for hazardous materials
- Do not discharge vehicle or machinery wash waters to water bodies
- Locate on-site fueling and maintenance areas away from water bodies or runoff areas
- Prevents spills and leaks during fueling and maintenance of equipment
- Proper inspection and maintenance of vehicles and equipment
- Use of off-site maintenance shops to the extent possible
- Other practices (list)**

Non-storm water discharges

- Water from water line flushings
- Pavement wash water (when clean)
- Uncontaminated ground water
- Others (list)**

All non-storm water discharges will be directed to waste pond

TIMING OF CONTROL MEASURES

The earthen dike, stabilized construction entrance, and waste storage pond will be constructed prior to clearing and grading on other areas of the project site. Areas exposed for more than 14 days will be mulched to protect the soil. Once construction activity ends in one area, that area will be stabilized. After the entire site is stabilized, trapped sediment will be removed from the site.

COMPLIANCE WITH FEDERAL, STATE , AND LOCAL REQUIREMENTS

This storm water pollution prevention plan is consistent with accepted storm water management and erosion and sediment controls in Idaho. The plan was developed in accordance with local (and state) storm water management programs, ordinances and plans (IDEQ Stormwater Management Program, Canyon County Stormwater Management Plan).

INSPECTION AND MAINTENANCE PRACTICES

- All control measures will be inspected at least once a week and following any storm event greater than 0.5 inches
- Any problems will be reported and repaired within 24 hrs
- Build-up of sediment will be removed from silt fence once it has reached 1/3 the height of the fence
- Temporary/permanent seedings will be inspected for bare spots or washouts
- Maintenance inspection reports to be completed

Refer to ATTACHMENT 3, Inspection and Maintenance Reports

INVENTORY OF MATERIALS

- Concrete
- Paints
- Fertilizers
- Petroleum based products
- Wood
- Masonry Block

- Roofing shingles
- Steel posts
- PVC

SPILL PREVENTION

Check all that apply:

Material management

- Designate material storage areas away from water bodies
- Store dry chemicals and bagged materials on pallets
- Provide secondary containment for liquids
- Conduct frequent inspections to check for damaged or leaking containers
- Keep storage areas clean and well organized
- Provide adequate coverage/protection for materials on-site
- Keep chemicals in existing containers and properly labeled

Other practices (list)

Product-specific practices

Use of products requiring specific management or attention (describe all)

Spill control practices

- Store spill cleanup materials on site and near storage area(s)
- In the event of a spill, isolate and promptly clean up and properly dispose of spill materials
- Adequate training of personnel on proper spill prevention and control methods
- Have a spill prevention plan developed and responsible individuals identified

Other practices (list)

FINAL PROJECT STABILIZATION AND STORM WATER MANAGEMENT

The completed waste management system is designed to reduce runoff and potential contamination of surface and ground water in accordance with the USDA-NRCS practice standards (See ATTACHMENT 5).

POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of certifying individual
Individual's position and affiliation

Date of certification

CONTRACTORS' CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with (industrial) activity from the construction site identified as part of this certification.

Contractor 1
Position and project responsibility
Address

Date of certification

Contractor 2
Position and project responsibility
Address

Date of certification

Contractor 3
Position and project responsibility
Address

Date of certification

PLAN ATTACHMENTS

Attachment 1. Site map

Site map must be legible, complete to scale, topographic, of the entire site. It should include: 1) direction of storm water flow/drainage patterns and approximate slopes after grading activities, 2) areas to be disturbed and areas undisturbed, 3) locations of offsite material, waste, equipment storage, etc., 4) locations of major structural and non-structural erosion/sedimentation controls, 5) names and locations of all US waters and wetlands, 6) locations where storm water discharges to surface water or storm sewer system.

Attachment 2. Construction Activity Records

Maintain a record of dates of major activities, when stabilization measures are initiated, when construction terminates.

Attachment 3. Inspection and Maintenance Reports

Initially include report forms, and as project progresses, keep reports on file in this attachment.

Attachment 4. Copy of the Permit

Attachment 5. Pollution Prevention BMPs and Standards (optional).

Include specific BMPs and/or standards typically used, for reference.