



## Demicks Lake Pipeline Project

### DUST CONTROL PLAN

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## Introduction

ONEOK Bakken Pipeline, L.L.C. (ONEOK) proposes to construct the Demicks Lake Pipeline Project (Project), which will consist of approximately 77 miles of 20-inch-diameter pipeline in North Dakota and Montana for the transport of natural gas liquids (NGLs) from ONEOK's Demicks Lake Natural Gas Processing Plant in McKenzie County, North Dakota, to a planned ONEOK-affiliate pipeline in Richland County, Montana. Approximately two (2) miles of the pipeline will be located in Montana.

Construction of the Project will involve land-disturbing activities, which can increase the susceptibility of soils to erosion caused by wind and water. Wind erosion can damage the productivity of the land by reducing soil moisture, altering soil structure, and carrying away soil nutrients and topsoil. A small amount of soil loss from wind erosion occurs naturally; however, human activity, such as pipeline construction, can dramatically increase soil loss due to wind erosion (fugitive dust) and potentially create conditions that could be detrimental to air quality and safety. Fugitive dust is a type of non-point source air pollution that can cause respiratory distress for construction workers, as well as for nearby residents and wildlife. Additionally, fugitive dust can create a safety hazard by obscuring visibility for equipment operators, construction personnel, and traffic on public roads near the Project.

ONEOK has developed this *Dust Control Plan* as a guide for construction and field personnel on implementation of appropriate measures to minimize and control the generation of fugitive dust during construction activities associated with the Project. It will be the responsibility of the Project contractors, working with ONEOK's field representatives, to identify activities that are generating dust and to at all times control airborne dust levels during construction activities to acceptable levels that are in compliance with any applicable standards, including those established by the Montana Department of Environmental Quality (MDEQ), the North Dakota Department of Health (NDDOH), and other regulating agencies and local ordinances.

## Fugitive Dust Sources

ONEOK has attempted to identify the primary potential sources of fugitive dust, which include:

- Vegetation clearing activities;
- Initial grading of topsoil and subsoil, including cut-and-fill areas on steep sideslopes;
- Excavation, temporary side casting of spoil, and backfilling;
- Blasting;
- Grading associated with reestablishing contours and restoring segregated topsoil;
- Vehicle traffic down unimproved public and private access roads;
- Vehicle and equipment travel down the Project right-of-way (ROW);
- Open-bodied trucks hauling sand, soil, gravel, or other materials; and
- Activities at Project facilities such as material storage yards, contractor yards, parking areas, and aboveground facility locations.

ONEOK's Contractors and field representatives will identify activities that are generating fugitive dust, implement feasible dust abatement techniques or Best Management Practices (BMPs) to control dust, and maintain compliance with applicable fugitive dust regulations.

## Fugitive Dust Control Measures

Dust suppression measures will be employed as necessary to control fugitive dust emissions where construction activities approach dwellings, farm buildings, commercial areas, and other areas occupied by people; where the pipeline parallels an existing road or highway; and where dust could compromise safety or become a public nuisance. This will also apply to access roads where dust raised by construction vehicles may irritate or inconvenience local residents. To minimize wind erosion and fugitive dust emissions during construction, ONEOK will implement the following reasonably available control measures:

- Disturb no more earth than required for construction to occur;
- Use dust abatement techniques (i.e., applying water or approved nontoxic chemical dust suppressants) on unpaved or un-vegetated areas or other areas susceptible to wind erosion, including the Project ROW, approved work areas, and unpaved roads, at least daily in areas of active construction. (Note: utilization of chloride-containing additives is limited to roads. Application of dust suppressants will be repeated as necessary and as determined by the Environmental Inspector (EI) or ONEOK representative);
- Water for dust control will be obtained from wells, municipal sources, and nearby rivers where the necessary water purchase agreements and permits required by federal, state, and local agencies for the procurement of water have been secured. No unapproved water sources will be used for Project activities, including dust control;
- Temporarily stockpiled soils (topsoil and spoil) will be sprayed with water or approved chemical dust suppressant to create a semi-hard protective layer to minimize wind erosion, if necessary, and as determined by the EI or ONEOK representative. (Note: utilization of chloride-containing additives is limited to roads and is not permitted on stockpiled soils);
- Appropriate precautions will be taken to prevent fugitive dust emissions caused by sand-blasting from reaching any residence or public building. Curtains of suitable material will be placed, as necessary, to prevent wind-blown particles from sand blasting operations from reaching any residence or public building;
- Emissions from construction equipment combustion, open burning, and temporary fuel transfer systems and associated tanks will be controlled to the extent required by state and local agencies through the permitting process;
- Project-related traffic speeds will be controlled on the construction ROW and within other Project facilities; where construction activities approach dwellings, farm buildings, commercial areas, and other areas occupied by people; where the pipeline parallels an existing road or highway; and on unpaved access roads. A speed limit of 25 mph will be followed on unimproved roads. Additional speed limit restrictions may be required by the property owner/tenant on private lands or by the county on public roads (e.g., posted speed limits);
- Speed limits will be decreased when excessive winds prevail and where sensitive areas such as public roads are adjacent to access roads or the construction ROW;

- Open-bodied trucks carrying sand, soil, gravel, or other materials will be covered where necessary to prevent such materials from being expelled;
- Construction entrance/exit access locations onto paved roads will be cleaned at a minimum of once every 48 hours, or as needed or specified by the EI if materials are observed to be accumulating on the road surface;
- In construction areas adjacent to highways where dust could cause poor visibility, ONEOK will implement additional BMPs to minimize dust and potential safety issues. These additional BMPs may include applying water as close to earth-moving equipment as possible, slowing the speed of construction equipment, spacing equipment further apart, increased traffic control, or shutting down operations during high wind periods. ONEOK will coordinate with the appropriate highway authorities to ensure adequate traffic control measures are in place, including the possibility of using flaggers to control traffic if extreme low-visibility conditions develop;
- When opacity along dirt roads and the ROW exceeds 20 percent (objects partially obscured), construction activity will cease until dust control measures are employed; and
- Other dust control measures, such as the use of wind fences or berms, may also be implemented as needed.

The frequency of water application will largely depend on weather conditions. Additionally, ONEOK will attempt to begin cleanup and rough grading within 72 hours after backfilling and complete cleanup within 14 days after backfilling, weather and soil conditions permitting. If seasonal or other weather conditions prevent compliance with the time frames, the contractor will stabilize the ROW and maintain erosion and sediment control measures until cleanup can be conducted. Disturbed areas will be permanently revegetated in accordance with applicable permit conditions and landowner requirements.

### **Regulatory Applicability**

The following agencies are responsible for air quality management in areas of Project construction activities:

- Montana Department of Environmental Quality and
- North Dakota Department of Health

This Dust Control Plan has been developed to meet the regulatory requirements of Montana Administrative Rule 17.8.308(3) and North Dakota Administrative Code Article 33-15. While the states of Montana and North Dakota have no specific regulations in relation to construction dust control, ONEOK and its contractors will utilize measures outlined in this Plan to minimize dust during construction.

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