

Fugitive Dust

5/6/2024 5:11:29 PM

Introduction

Please complete the following information in order to create a Fugitive Dust Application for your project. You will have a chance to review the plan prior to final submission.

Introduction

A Fugitive Dust Control Plan is required if your project is 1/4 acre or larger and located in Cache, Box Elder, Weber, Davis, Salt Lake, Tooele or Utah County. Other areas and conditions are optional. Please complete the form to assess your project.

Project Location

Project Location

A Fugitive Dust Control Plan is required if your project is 1/4 acre or larger and located in Cache, Box Elder, Weber, Davis, Salt Lake, Tooele or Utah County. Other areas and conditions are optional.

Select the County where your project will be located : Weber

Utah Administrative Code (UAC) [307-309-6](#) requires that any person owning or operating a source of fugitive dust within PM10 and PM2.5 non-attainment and maintenance plan areas on cleared land greater than 1/4 acre in size must submit a completed Fugitive Dust Control Plan. The DAQ Temporary Relocation Form requires the submission of a Fugitive Dust Control Plan Permit Number for all temporary relocation projects.

Is this project a temporary relocation project?:

☐ Yes

☒ No

Non-Attainment Dust Tutorial

What is Fugitive Dust?

Fugitive dust is dust that is stirred up, creating an air quality problem. It is made up of fine particles called particulate matter. It is a health concern because it irritates eyes and nasal tissue and seriously impacts the respiratory system.

Fugitive dust may come from gravel operations, construction or demolition activities, land clearing and exposed surfaces, roadways, and mining activities. Trackout from muddy work areas also create fugitive dust when the mud dries.



How We Measure Compliance-Opacity

Opacity is the amount of light that is blocked by something else such as smoke or a tinted window. The percentage of opacity can provide a measure of the particulate matter in the air.



Opacity is measured as a percentage - 0% means that all light passes through; 100% means that no light can pass through. The more particles present, the higher the opacity percentage.



Utah Fugitive Dust Rule R307-309-5

[Non-attainment Dust Rule](#)

Acknowledgements::

- ☒ I acknowledge that Utah regulation R307-309-5(1)(a) prohibits fugitive dust to exceed 10% opacity at the property boundary;
- ☒ I acknowledge that Utah regulation R307-309-5(1)(b) prohibits fugitive dust to exceed 20% opacity on site;
- ☒ I acknowledge that Utah regulation R307-309-5(3) exempts the opacity requirements above, ONLY when wind speed exceeds 25 miles per hour AND fugitive dust controls are maintained. The online fugitive dust control plan requires selection of appropriate control measures that must be implemented for this exemption to apply; and
- ☒ I acknowledge that failure to comply with fugitive dust rules may result in compliance action and penalties up to \$10,000 per violation/day.

Applicant Information

Applicant Type:: Sub Contractor

Plan Certificate Number: AE6BBB3D1C

Name: Northshore Excavation

Mailing Address

Mailing Address - Address Line 1: 1740 Combe Rd

Mailing Address - Address Line 2: Suite 1

Mailing Address - City: South Ogden

Mailing Address - State: Utah

Mailing Address - Zip: 84403

Email: sydney@northshoreexcavation.com

Phone: (801) 814-6145

Project Information

Project Name: White Rock Phase 3

Project End Date: 05/20/2026

Project Location

Address Line 1: 3090 Mountain Road

Address Line 2:

City: North Ogden

State: Utah

Zip: 84414

Site Directions: Head East on 3100 North and turn right onto Mountain Road. Take first left on 3090 North. Drive to end of road

County: Weber

Acreage: 10

Calculated Acreage: 10.0

Latitude/Longitude Verification

For Manual Latitude and Longitude input:

Make sure to include at least 6 digits after the decimal and it must fall within the state of Utah.

Example 40.404976 or 40.404976232

Latitude (Decimals Only) : 41.316030

Longitude (Decimals Only) : -111.934950

Map Verification

Copy the following URL into your browser so you can verify on a map that the project latitude and longitude you provided are correct.

Map Calculation: <https://www.google.com/maps/place/41.316030,-111.934950>

Latitude/Longitude verification:

☒ The above Latitude and Longitude have been verified.

Point of Contact

Point of Contact for dust control matters and to whom a COMPLIANCE ACTION should be sent if necessary.

Name: Kyle Blackburn

Company: Northshore Excavation

Address

Address Line 1: 1740 Combe Rd

Address Line 2: Suite 1

City: South Ogden

State: Utah

Zip: 84403

Phone number: (801) 814-6145

Cell number:

Dust Suppressants

Do you plan on using chemical dust suppressing or stabilizing agents?:

☐ Yes

☒ No

Best Management Practices (BMP) Checklist

Best Management Practices (BMP) Checklist Instructions

Place a check mark next to every activity that will be conducted on this site.

For each checked activity, complete the corresponding control measures/best management practices (BMP) selection page. When completed, we will email the entire plan to you.

Fugitive Dust Plan Number: 0C37D68DB7

Select all that apply:

- ☒ 01. Backfilling area previously excavated or trenched.
- ☐ 02. Blasting soil and rock - drilling and blasting.
- ☒ 03. Clearing for site preparation and vacant land cleanup.
- ☐ 04. Clearing forms, foundations, slab clearing and cleaning of forms, foundations and slabs prior to pouring concrete.
- ☒ 05. Crushing of construction and demolition debris, rock and soil.
- ☒ 06. Cut and fill soils for site grade preparation.
- ☐ 07. Demolition - Implosive demolition of a structure, using explosives.
- ☐ 08. Demolition - mechanical/manual demolition of walls, stucco, concrete, freestanding structures, buildings and other structures.
- ☒ 09. Disturbed soil throughout project including between structures. THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS.
- ☐ 10. Disturbed land - long term stabilization and erosion control of large tracts of disturbed land that will not have continuing activity for more than 30 days.
- ☒ 11. Hauling materials.
- ☐ 12. Paving/subgrade preparation for paving streets, parking lots, etc.
- ☐ 13. Sawing/cutting material, concrete, asphalt, block or pipe.
- ☒ 14. Screening of rock, soil or construction debris.
- ☒ 15. Staging areas, equipment storage, vehicle parking lots, and material storage areas.
- ☒ 16. Stockpiles materials (storage), other soils, rock or debris, for future use or export.
- ☐ 17. Tailings piles, ponds and erosion control.
- ☒ 18. Trackout, Prevention and cleanup of mud, silt and soil tracked out onto paved roads. (THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS.)
- ☒ 19. Traffic - unpaved routes and parking, construction related traffic on unpaved interior and/or access roads and unpaved employee/worker parking areas.
- ☒ 20. Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.
- ☒ 21. Truck loading with materials including construction and demolition debris, rock and soil.

BMP - 01 Backfilling area previously excavated or trenched.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize backfill material when not actively handling.:

- ☒ 01-01. Water backfill material to maintain moisture or to form crust.
- ☐ 01-02. Apply and maintain a chemical stabilizer to backfill material to form crust.
- ☐ 01-03. Cover (natural or synthetic) or enclose backfill material when not actively handling.

Stabilize backfill material during handling.:

- ☒ 01-04. Empty loader bucket slowly and minimize drop height from loader bucket.
- ☒ 01-05. Dedicate water truck or large hose to backfilling equipment and apply water as needed.
- ☒ 01-06. Mix moist soil with dry soil until the optimum moisture is reached.
- ☒ 01-07. Apply and mix water into the backfill material until optimum moisture is reached.
- ☐ 01-08. Apply and mix water and chemical solution into the backfill material until optimum moisture is reached.

Stabilize backfill material when not actively handling.:

- ☒ 01-09. Apply water and maintain disturbed soils in a stable condition.
- ☐ 01-10. Apply and maintain a chemical stabilizer on disturbed soils to form a crust.

Stabilize material while using pipe padder equipment.:

- ☒ 01-11. Mix moist soil with dry soil until the optimum moisture is reached.
- ☒ 01-12. Dedicate water truck or large hose to equipment and apply water as needed.
- ☐ 01-13. Not applicable

BMP - 03 Clearing for site preparation and vacant land cleanup.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 03-01. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 03-02. Apply and maintain a chemical stabilizer on surface soils.

Stabilize disturbed soil immediately after clearing and grubbing activities.:

- ☒ 03-03. Water disturbed soils to form crust.
- ☐ 03-04. Apply and maintain a chemical stabilizer on disturbed soils to form crust.

Stabilize slopes at completion of activity.:

- ☐ 03-05. Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slope.
- ☒ 03-06. Apply water and maintain sloping surfaces/wind breaks in a crusted condition.

BMP - 05 Crushing of construction and demolition debris, rock and soil.

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

If you have crushers and screening on site, you may be subject to the federal requirements contained in New Source Performance Standards Subpart OOO. It is advised that you read this subpart to determine if these requirements apply to you. Please note that Subpart OOO is NOT included in this Dust Control Plan submission. Read about Subpart OOO [here](#).

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 05-01. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 05-02. Apply and maintain a chemical stabilizer to surface soils.
- ☐ 05-03. Pave operational area(s).

Stabilize material before crushing.:

- ☒ 05-04. Pre-water material.
- ☐ 05-05. Test material to determine moisture content and silt loading, crush only material that is at optimum moisture content.

Stabilize material during crushing.:

- ☒ 05-06. Apply water to stabilize material so as to maintain compliance with opacity standards and permit conditions.

Monitor opacity.:

- ☒ 05-07. Make adjustments to maintain compliance with opacity standards and permit conditions.
- ☐ 05-08. Install wind break or use enclosure.

Stabilize material after crushing.:

- ☒ 05-09. Water crushed material immediately following crushing.
- ☐ 05-10. Apply and maintain a chemical stabilizer to crushed material.
- ☐ 05-11. Maintain in enclosure.
- ☒ 05-12. Minimize height of stockpile.

Traffic:

- ☒ 05-13. Minimize vehicle miles.
- ☒ 05-14. Reduce truck traffic.
- ☒ 05-15. Reduce truck speed.

Transfer height.:

- ☒ 05-16. Minimize transfer and drop point height.

BMP - 06 Cut and fill soils for site grade preparation.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 06-01. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 06-02. Apply and maintain a chemical stabilizer to surface soils.

Pre-water soils.:

- ☒ 06-03. Dig a test hole to depth of cut or equipment penetration to determine if soils are moist at depth. Continue to pre-water if not moist to depth of cut.

Stabilize soil during cut activities.:

- ☒ 06-04. Apply water to depth of cut prior to subsequent cuts.

Stabilize soil after cut and fill activities.:

- ☒ 06-05. Water disturbed soils to maintain moisture.
- ☐ 06-06. Apply and maintain a chemical stabilizer on disturbed soils to form crust following fill and compaction.
- ☒ 06-07. Apply cover (natural or synthetic).

BMP - 09 Disturbed soil throughout project including between structures.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Limit disturbance of soils where possible.:

- ☒ 09-01. Limit disturbance of soils with the use of fencing, barriers, barricades, and/or wind barriers.
- ☒ 09-02. Limit vehicle mileage and reduce speed.

Stabilize and maintain stability of all disturbed soil throughout construction site.:

- ☒ 09-03. Apply water to stabilize disturbed soils. Soil moisture must be maintained such that soils can be worked without generating fugitive dust.
- ☐ 09-04. Apply and maintain a chemical stabilizer.
- ☒ 09-05. Use wind breaks.
- ☒ 09-06. Apply cover (natural or synthetic).

BMP - 11 Hauling materials.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Limit visible dust opacity from vehicular operations.:

- ☒ 11-01. Apply and maintain water/chemical suppressant to operational areas and haul routes.
- ☒ 11-02. Limit vehicle mileage and speed.

Stabilize materials during transport on site.:

- ☐ 11-03. Use tarps or other suitable enclosures on haul trucks.
- ☒ 11-04. Apply water prior to transport.

Clean wheels and undercarriage of haul trucks prior to leaving construction site.:

- ☐ 11-05. Clean wheels.
- ☒ 11-06. Sweep or water haul road.

BMP - 14 Screening of rock, soil or construction debris.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

If you have crushers and screens on site, you may be subject to the federal requirements contained in New Source Performance Standards Subpart OOO. It is advised that you read this subpart to determine if these requirements apply to you. Please note that Subpart OOO is NOT included in this Dust Control Plan submission. Read about Subpart OOO [here](#).

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 14-01. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 14-02. Apply and maintain a chemical stabilizer on surface soils.
- ☐ 14-03. Pave operational area(s).

Pre-treat material prior to screening.:

- ☒ 14-04. Apply a dust suppressant to material.

Stabilize material during screening.:

- ☒ 14-05. Dedicate water source to screening operation and apply water as needed to prevent dust.
- ☐ 14-06. Install wind barrier upwind of screen as high as the drop point.

Stabilize material and surrounding area immediately after screening.:

- ☒ 14-07. Apply water to stabilize screened material and surrounding area.
- ☐ 14-08. Apply and maintain a chemical stabilizer to stabilize screened material and surrounding area.
- ☒ 14-09. Minimize storage pile height.

Transfer height.:

- ☒ 14-10. Drop material through the screen slowly and minimize drop height.

BMP - 15 Staging areas, equipment storage, vehicle parking lots, and material storage areas.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Limit visible dust opacity from vehicular operations.:

- ☒ 15-01. Limit vehicle mileage and speed limit.
- ☒ 15-02. Apply water on all vehicle traffic areas in the staging areas and unpaved access routes.

Stabilize staging area soils during use.:

- ☒ 15-03. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 15-04. Apply and maintain a chemical stabilizer to surface soils.

Stabilize staging area soils at project completion.:

- ☐ 15-05. Apply a chemical stabilizer.
- ☐ 15-06. Apply screened or washed aggregate.
- ☐ 15-07. Use wind breaks.
- ☐ 15-08. Pave.
- ☒ 15-09. Completed project will cover staging area with buildings, paving, and/or landscaping.
- ☒ 15-10. Apply water to form adequate crust and prevent access.

BMP - 16 Stockpiles materials (storage), other soils, rock or debris, for future use or export.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 16-01. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 16-02. Apply and maintain a chemical stabilizer on surface soils.
- ☐ 16-03. Pave area.

Stabilize stockpile materials during handling.:

- ☒ 16-04. Remove material from the downwind side of the stockpile, when safe to do so.
- ☒ 16-05. Reduce height.
- ☐ 16-06. Create wind screen

Stabilize stockpiles after handling.:

- ☒ 16-07. Water stockpiles to form a crust immediately.
- ☐ 16-08. Apply and maintain a chemical stabilizer to all outer surfaces of the stockpiles.
- ☐ 16-09. Provide and maintain wind barriers on 3 sides of the pile.
- ☐ 16-10. Apply a cover (natural or synthetic)
- ☐ 16-11. Wind screen.
- ☒ 16-12. Avoid steep sides to prevent material sloughing.
- ☒ 16-13. Reduce height.

BMP - 18 Trackout, Prevention and cleanup of mud, silt and soil tracked out onto paved roads.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Prevent dust from trackout.:

- ☒ 18-01. Clean trackout at the end of the work shift from paved surfaces to maintain dust control
- ☒ 18-02. Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day.
- ☒ 18-03. Install gravel pad(s), clean, well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness.
- ☐ 18-04. Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness.
- ☐ 18-05. Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness.
- ☐ 18-06. Motorized vehicles will only operate on paved surfaces.
- ☐ 18-07. Install cattle guard before paved road entrance.

All exiting traffic must be routed over selected trackout control device(s).:

- ☒ 18-08. Clearly establish and enforce traffic patterns to route traffic over selected trackout control device(s).
- ☒ 18-09. Limit site accessibility to routes with trackout control devices in place by installing effective barriers on unprotected routes.

Best Management Practice Selections - 19 Traffic - unpaved routes and parking, construction related traffic ... parking areas.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.:

- ☒ 19-01. Limit vehicle mileage and speeds.
- ☒ 19-02. Apply and maintain water on surface soils.
- ☐ 19-03. Apply and maintain chemical stabilizers on surface soils.
- ☒ 19-04. Apply and maintain gravel on surface soils.
- ☒ 19-05. Supplement chemical stabilizers, water or aggregate applications as necessary.
- ☐ 19-06. Apply recycled asphalt (RAP) to surface soils.

BMP - 20 Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Presoak soils prior to trenching activities.:

- ☒ 20-01. Pre-water surface.

Stabilize surface soils where trenching equipment, support equipment and vehicles will operate.:

- ☒ 20-02. Pre-water and maintain surface soils in a stabilized condition.
- ☐ 20-03. Apply and maintain a chemical stabilizer to surface soils.
- ☒ 20-04. Limit mileage and speed.

Stabilize soils after trenching.:

- ☒ 20-05. Apply and maintain water on excavated soil.
- ☐ 20-06. Apply and maintain chemical stabilizer on excavated soil.

BMP - 21 Truck loading with materials including construction and demolition debris, rock and soil.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Apply and maintain a chemical stabilizer on surface soils where loaders, support equipment and vehicles will operate. :

- ☒ 21-01. Pre-water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate.
- ☐ 21-02. Apply and maintain a chemical stabilizer on surface soils where loaders, support equipment and vehicles will operate.
- ☒ 21-03. Empty loader bucket slowly and keep loader bucket close to the truck to minimize the drop height while dumping.

Reviewing Your Plan

Please carefully review your plan before submitting it. Once the plan has been submitted, it CANNOT be edited.

BEFORE you submit your plan, if you need to make changes, navigate back to those sections via the left navigation or the Previous button to complete those changes.

When you are satisfied, submit your plan.

The plan will be available to download in the [My Forms](#) section, under the [Done](#) tab.

By submitting this plan I agree to the following terms:

- A. I am authorized, on behalf of the individual or company listed in Section 1, as Applicant, to apply for a Fugitive Dust Control Plan and to commit to all of the terms and conditions of the requested plan.
- B. Construction activities will be limited to lands that the applicant either owns or is authorized to use for construction activities.
- C. The applicant accepts responsibility for assuring that all contractors, subcontractors, and all other persons on the construction site covered by this plan, comply with the terms and

conditions of the Fugitive Dust Control Plan.

D. I understand that any false material statement, representation or certification made in this application may invalidate the plan or cause me to be subject to enforcement action pursuant to Utah Code Ann. 19-2-115.

E. Failure to comply with fugitive dust rules may result in compliance action and penalties up to \$10,000 per violation/day.

Confirmation of terms:

☒ My plan is ready to be submitted.

[Frequently Asked Questions](#)

[Division of Air Quality](#)

[Utah Department of Environmental Quality](#)

[Feedback](#)

Division of Air Quality

Address: 195 North 1950 West

P.O. Box 144820

Salt Lake City, UT 84114-482

Contact Phone: 801-536-4000

Contact Fax: 801-536-4099

Frequently Asked Questions

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