

# **Draft Fugitive Dust Control Plan**



FERC Docket No. PF08-9-000

**January 2009**

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## List of Abbreviations and Acronyms

NDEP	Nevada Division of Environmental Protection
Project	Ruby Pipeline Project
ROW	right-of-way
Ruby	Ruby Pipeline, LLC
WC-AQMD	Washoe County District Health Department – Air Quality Management Division

# 1 Introduction

## 1.1 Objective

The objective of this fugitive dust control plan is to identify potential dust emission sources and provide guidance to construction and field personnel on measures to control the generation of fugitive dust during construction activities associated with the Ruby Pipeline Project (Project). It will be the responsibility of Project contractors, working with designated environmental inspectors, to identify all activities generating fugitive dust, implement feasible control measures, and ensure compliance with applicable fugitive dust regulations.

## 1.2 Project Description

The Ruby Pipeline Project (Project), proposed by Ruby Pipeline, LLC (Ruby), is comprised of approximately 675.2 miles of 42-inch diameter natural gas pipeline, along with associated compression and measurement facilities, located between Opal, Wyoming and Malin, Oregon. An approximate 2.6-mile lateral, PG&E Lateral, would also be constructed south from the Malin Hub. As proposed, the Project would have a design capacity of approximately 1.5 million Dekatherms per day (MMDth/d), depending on final subscriptions. The Project's rights-of-way (ROW) would cross four states: Wyoming, Utah, Nevada, and Oregon. In addition to the pipeline facilities, Ruby proposes the installation of four compressor stations for the Project: one located near the Opal Hub, one in western Utah, one near the mid-point of the Project north of Elko, Nevada, and one northwest of Winnemucca, Nevada.

# 2 Fugitive Dust Sources

Fugitive dust could be generated directly from pipeline installation and aboveground facility construction. The following construction activities have been identified as having the potential for generating fugitive dust:

- vehicle and motorized equipment movement on paved and unpaved access roads;
- vegetation removal;
- clearing and grading;
- topsoil removal;
- cutting and filling;
- trenching;
- backfilling;
- blasting
- track-out onto roads
- bulk material loading, hauling and unloading;

- use of material storage piles; and
- use of parking, staging, and storage areas.

It is the responsibility of the Project contractor(s) and the designated environmental inspector(s) to ensure all sources of dust generation are identified.

### Dust Abatement

The Project proposes to withdraw water for use in controlling dust at nine locations:

Locations	MP	State	Volume (gallons)
Hams Fork River	0.81	Wyoming	2,880,000
Bear River (east)	52.9	Utah	8,640,000
Little Bear River	94.9	Utah	5,760,000
Bear River (west)	133.8	Utah	5,760,000
Mary's River	300.1	Nevada	17,280,000
Irrigation Quarter	435.3	Nevada	17,280,000
Deep Creek	601.8	Oregon	17,280,000
Irrigation Canal	624.3	Oregon	17,280,000
Lost River	665.8	Oregon	17,280,000

Additionally, Ruby is in the process of identifying new water well locations along the Project. Ruby would acquire the appropriate permits necessary for drilling these water wells to provide hydrostatic test and dust abatement water.

Abatement measures for dust will be required on the construction ROW or access roads when a visible plume of dust extends more than 300 feet from the source with an estimated opacity exceeding 20 percent (objects partially obscured). The contractor will be responsible for controlling dust by reducing travel speed and/or applying dust suppressants (e.g., water)

Assuming each contractor will supply three 80-barrel water trucks for dust abatement and each truck will make ten trips per day, then each contractor would use 96,000 gallons per day from any one water source in proximity to the spread. Assume 120 days of dust abatement for each of the seven spreads, each contractor would use 11,520,000 gallons. A total of 80,640,000 Gallons (247.5 acre-feet) would be used for dust abatement for the entire Project.

### Surface Water Basins

The United States is divided and sub-divided into successively smaller hydrologic units that are classified into four levels: regions, sub-regions, basins, and sub-basins. Sub-basins are further divided into watersheds. Several sub-basins in Nevada have not been officially subdivided to the watershed level and are therefore addressed at the sub-basin level. The Project would pass through 54 surface water basins (39 watersheds in Wyoming, Utah,

Nevada, and Oregon and 15 sub-basins in Nevada). A summary of surface water basins that would be crossed by the Project and mileposts (MPs) for each crossing is shown in Table 2-1. Surface water basins are listed at the watershed level, where available, and at the sub-basin level, where watershed level was not available.

**Table 2-1 Watersheds Crossed by the Proposed Ruby Pipeline Project (Route Version 26- November 2008)**

Start MP	End MP	Intersecting Length (Miles)	State	County	Watershed	Hydrologic Unit Code
0.0	2.0	2.0	Wyoming	Lincoln	Lower Hams Fork	1404010707
2.0	5.9	3.9	Wyoming	Lincoln	Dry Muddy Creek	1404010705
5.9	12.7	6.8	Wyoming	Lincoln	Dry Muddy Creek	1404010705
12.7	13.3	0.6	Wyoming	Lincoln	Little Muddy Creek	1404010802
13.3	13.5	0.2	Wyoming	Lincoln	Dry Muddy Creek	1404010705
13.5	21.2	7.7	Wyoming	Lincoln	Little Muddy Creek	1404010802
21.2	21.6	0.4	Wyoming	Uinta	Little Muddy Creek	1404010802
21.6	25.2	3.7	Wyoming	Uinta	Little Muddy Creek	1404010802
25.2	26.3	1.0	Wyoming	Uinta	Albert Creek	1404010803
26.3	36.0	9.8	Wyoming	Uinta	Little Muddy Creek	1404010802
36.0	39.5	3.5	Wyoming	Uinta	Little Muddy Creek	1404010802
39.5	44.9	5.4	Wyoming	Uinta	Bear River-Pleasant Valley Creek	1601010103
44.9	48.1	3.2	Wyoming	Uinta	Bear River-Pleasant Valley Creek	1601010103
48.1	48.6	0.6	Utah	Rich	Bear River-Pleasant Valley Creek	1601010103
48.6	50.2	1.5	Utah	Rich	Bear River-Pleasant Valley Creek	1601010103
50.2	50.8	0.6	Utah	Rich	Bear River-Pleasant Valley Creek	1601010103
50.8	53.8	3.0	Utah	Rich	Bear River-Big Creek	1601010106
53.8	54.1	0.3	Utah	Rich	Woodruff Creek	1601010107
54.1	54.5	0.4	Utah	Rich	Bear River-Big Creek	1601010106
54.5	58.3	3.8	Utah	Rich	Saleratus Creek	1601010105
58.3	64.1	5.9	Utah	Rich	Woodruff Creek	1601010107
64.1	64.1	0.0	Utah	Rich	Woodruff Creek	1601010107
64.1	64.2	0.0	Utah	Rich	Woodruff Creek	1601010107
64.2	64.3	0.1	Utah	Rich	Woodruff Creek	1601010107
64.3	64.3	0.0	Utah	Rich	Woodruff Creek	1601010107
64.3	64.4	0.1	Utah	Rich	Woodruff Creek	1601010107
64.4	64.5	0.1	Utah	Rich	Woodruff Creek	1601010107
64.5	64.6	0.1	Utah	Rich	Woodruff Creek	1601010107
64.6	64.7	0.1	Utah	Rich	Woodruff Creek	1601010107
64.7	67.4	2.7	Utah	Rich	Woodruff Creek	1601010107
67.4	68.4	0.9	Utah	Rich	Woodruff Creek	1601010107
68.4	69.1	0.8	Utah	Rich	Woodruff Creek	1601010107
69.1	69.4	0.3	Utah	Rich	Woodruff Creek	1601010107
69.4	69.5	0.1	Utah	Rich	Woodruff Creek	1601010107
69.5	69.8	0.3	Utah	Rich	Woodruff Creek	1601010107
69.8	70.1	0.2	Utah	Rich	Woodruff Creek	1601010107
70.1	73.2	3.1	Utah	Rich	Woodruff Creek	1601010107
73.2	73.2	0.0	Utah	Rich	Blacksmith Fork	1601020302
73.2	75.8	2.6	Utah	Cache	Blacksmith Fork	1601020302
75.8	76.0	0.2	Utah	Cache	Headwaters Little Bear River	1601020301
76.0	76.2	0.2	Utah	Cache	Blacksmith Fork	1601020302
76.2	76.3	0.1	Utah	Cache	Headwaters Little Bear River	1601020301
76.3	76.5	0.2	Utah	Cache	Blacksmith Fork	1601020302
76.5	80.6	4.1	Utah	Cache	Headwaters Little Bear River	1601020301
80.6	83.1	2.5	Utah	Cache	Blacksmith Fork	1601020302
83.1	83.7	0.6	Utah	Cache	Headwaters Little Bear River	1601020301
83.7	85.4	1.7	Utah	Cache	Blacksmith Fork	1601020302
85.4	85.9	0.4	Utah	Cache	Blacksmith Fork	1601020302

**Table 2-1 Watersheds Crossed by the Proposed Ruby Pipeline Project (Route Version 26-  
November 2008)**

Start MP	End MP	Intersecting Length (Miles)	State	County	Watershed	Hydrologic Unit Code
85.9	86.4	0.5	Utah	Cache	Headwaters Little Bear River	1601020301
86.4	86.6	0.2	Utah	Cache	Blacksmith Fork	1601020302
86.6	87.0	0.4	Utah	Cache	Headwaters Little Bear River	1601020301
87.0	87.0	0.0	Utah	Cache	Blacksmith Fork	1601020302
87.0	94.3	7.3	Utah	Cache	Headwaters Little Bear River	1601020301
94.3	98.6	4.3	Utah	Cache	Headwaters Little Bear River	1601020301
98.6	101.0	2.4	Utah	Cache	Headwaters Little Bear River	1601020301
101.0	101.0	0.0	Utah	Cache	Box Elder Creek-Bear River	1601020405
101.0	104.2	3.2	Utah	Box Elder	Box Elder Creek-Bear River	1601020405
104.2	113.1	8.9	Utah	Box Elder	Box Elder Creek-Bear River	1601020405
113.1	118.5	5.5	Utah	Box Elder	Box Elder Creek-Bear River	1601020405
118.5	121.9	3.4	Utah	Box Elder	Whites Valley	1601020404
121.9	123.5	1.6	Utah	Box Elder	Whites Valley	1601020404
123.5	131.0	7.5	Utah	Box Elder	Box Elder Creek-Bear River	1601020405
131.0	137.2	6.2	Utah	Box Elder	Blue Creek	1602030908
137.2	137.8	0.6	Utah	Box Elder	Blue Creek	1602030908
137.8	140.5	2.7	Utah	Box Elder	Blue Creek	1602030908
140.5	141.3	0.8	Utah	Box Elder	Blue Creek	1602030908
141.3	141.5	0.2	Utah	Box Elder	Blue Creek	1602030908
141.5	141.6	0.0	Utah	Box Elder	Blue Creek	1602030908
141.6	141.6	0.0	Utah	Box Elder	Blue Creek	1602030908
141.6	141.9	0.3	Utah	Box Elder	Blue Creek	1602030908
141.9	142.0	0.1	Utah	Box Elder	Blue Creek	1602030908
142.0	142.4	0.4	Utah	Box Elder	Blue Creek	1602030908
142.4	142.6	0.2	Utah	Box Elder	Blue Creek	1602030908
142.6	142.6	0.1	Utah	Box Elder	Blue Creek	1602030908
142.6	142.7	0.0	Utah	Box Elder	Blue Creek	1602030908
142.7	142.8	0.1	Utah	Box Elder	Blue Creek	1602030908
142.8	143.3	0.5	Utah	Box Elder	Hansel Valley Wash	1602030905
143.3	143.5	0.2	Utah	Box Elder	Hansel Valley Wash	1602030905
143.5	147.6	4.1	Utah	Box Elder	Hansel Valley Wash	1602030905
147.6	149.2	1.6	Utah	Box Elder	Hansel Valley Wash	1602030905
149.2	150.2	1.0	Utah	Box Elder	Hansel Valley Wash	1602030905
150.2	150.4	0.2	Utah	Box Elder	Hansel Valley Wash	1602030905
150.4	153.5	3.1	Utah	Box Elder	Hansel Valley Wash	1602030905
153.5	157.6	4.1	Utah	Box Elder	Hansel Valley Wash	1602030905
157.6	164.7	7.1	Utah	Box Elder	Outlet Deep Creek	1602030904
164.7	166.5	1.9	Utah	Box Elder	Outlet Deep Creek	1602030904
166.5	168.4	1.9	Utah	Box Elder	Outlet Deep Creek	1602030904
168.4	171.3	2.9	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
171.3	171.6	0.2	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
171.6	171.7	0.2	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
171.7	172.4	0.7	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
172.4	173.7	1.3	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
173.7	176.6	2.9	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
176.6	180.7	4.1	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
180.7	181.7	1.0	Utah	Box Elder	Crystal Hollow-Indian Creek	1602030906
181.7	189.6	7.9	Utah	Box Elder	Dove Creek	1602030814
181.7	189.6	7.9	Utah	Box Elder	Dove Creek	1602030814
189.6	192.8	3.2	Utah	Box Elder	Dove Creek	1602030814
189.6	192.8	3.2	Utah	Box Elder	Dove Creek	1602030814
192.8	199.5	6.7	Utah	Box Elder	Muddy Creek	1602030810
192.8	199.5	6.7	Utah	Box Elder	Muddy Creek	1602030810
199.5	201.0	1.4	Utah	Box Elder	Muddy Creek	1602030810
199.5	201.0	1.4	Utah	Box Elder	Muddy Creek	1602030810
201.0	201.7	0.8	Utah	Box Elder	Muddy Creek	1602030810

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Start MP	End MP	Intersecting Length (Miles)	State	County	Watershed	Hydrologic Unit Code
201.0	201.7	0.8	Utah	Box Elder	Muddy Creek	1602030810
201.7	203.8	2.1	Utah	Box Elder	Muddy Creek	1602030810
201.7	203.8	2.1	Utah	Box Elder	Muddy Creek	1602030810
203.8	206.6	2.7	Utah	Box Elder	Muddy Creek	1602030810
203.8	206.6	2.7	Utah	Box Elder	Muddy Creek	1602030810
206.6	207.0	0.5	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
206.6	207.0	0.5	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
207.0	214.1	7.1	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
207.0	214.1	7.1	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
214.1	217.3	3.2	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
214.1	217.3	3.2	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
217.3	223.1	5.8	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
217.3	223.1	5.8	Utah	Box Elder	Sand Wash-Pigeon Mountain	1602030809
223.1	228.0	4.8	Utah	Box Elder	Lower Grouse Creek	1602030803
223.1	228.0	4.8	Utah	Box Elder	Lower Grouse Creek	1602030803
228.0	230.6	2.7	Utah	Box Elder	Outlet Thousand Springs Creek	1602030708
228.0	230.6	2.7	Utah	Box Elder	Outlet Thousand Springs Creek	1602030708
230.6	231.8	1.2	Nevada	Elko	Outlet Thousand Springs Creek	1602030708
230.6	231.8	1.2	Nevada	Elko	Outlet Thousand Springs Creek	1602030708
231.8	233.4	1.5	Nevada	Elko	Outlet Thousand Springs Creek	1602030708
231.8	233.4	1.5	Nevada	Elko	Outlet Thousand Springs Creek	1602030708
233.4	233.8	0.4	Nevada	Elko	Northern Great Salt Lake Desert	16020308
233.8	283.0	49.2	Nevada	Elko	Pilot-Thousand Springs, Nevada, Utah	16020307
283.0	309.3	26.4	Nevada	Elko	Upper Humboldt	16040101
309.3	341.7	32.4	Nevada	Elko	North Fork Humboldt	16040102
341.7	347.6	5.9	Nevada	Elko	Upper Humboldt	16040101
347.6	348.0	0.4	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
347.6	348.0	0.4	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
348.0	348.1	0.1	Nevada	Elko	South Fork Owyhee	17050105
348.1	348.8	0.8	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
348.1	348.8	0.8	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
348.8	348.9	0.0	Nevada	Elko	South Fork Owyhee	17050105
348.9	349.4	0.5	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
348.9	349.4	0.5	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
349.4	357.2	7.8	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
349.4	357.2	7.8	Nevada	Elko	Headwaters South Fork Owyhee River	1705010501
357.2	387.5	30.3	Nevada	Elko	Rock	16040106
387.5	396.8	9.3	Nevada	Elko	Middle Humboldt	16040105
396.8	417.5	20.6	Nevada	Humboldt	Middle Humboldt	16040105
417.5	423.6	6.1	Nevada	Humboldt	Lower Humboldt	16040108
423.6	444.4	20.8	Nevada	Humboldt	Little Humboldt	16040109
444.4	444.5	0.1	Nevada	Humboldt	Upper Quinn	16040201
444.5	451.8	7.3	Nevada	Humboldt	Antelope Creek	1604020106
444.5	451.8	7.3	Nevada	Humboldt	Antelope Creek	1604020106
451.8	452.4	0.6	Nevada	Humboldt	Antelope Creek	1604020106
451.8	452.4	0.6	Nevada	Humboldt	Antelope Creek	1604020106
452.4	453.7	1.3	Nevada	Humboldt	Antelope Creek	1604020106
452.4	453.7	1.3	Nevada	Humboldt	Antelope Creek	1604020106
453.7	454.7	1.0	Nevada	Humboldt	Antelope Creek	1604020106
453.7	454.7	1.0	Nevada	Humboldt	Antelope Creek	1604020106
454.7	461.8	7.0	Nevada	Humboldt	Bloody Run Creek	1604020107
454.7	461.8	7.0	Nevada	Humboldt	Bloody Run Creek	1604020107
461.8	465.5	3.7	Nevada	Humboldt	Crowley Creek-Quinn River	1604020105
461.8	465.5	3.7	Nevada	Humboldt	Crowley Creek-Quinn River	1604020105
465.5	470.2	4.7	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
465.5	470.2	4.7	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113

**Table 2-1 Watersheds Crossed by the Proposed Ruby Pipeline Project (Route Version 26-  
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Start MP	End MP	Intersecting Length (Miles)	State	County	Watershed	Hydrologic Unit Code
470.2	471.8	1.5	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
470.2	471.8	1.5	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
471.8	474.3	2.5	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
471.8	474.3	2.5	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
474.3	476.3	2.0	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
474.3	476.3	2.0	Nevada	Humboldt	Lower Bottle Creek Slough-Quinn River	1604020113
476.3	478.0	1.7	Nevada	Humboldt	Upper Quinn	16040201
478.0	509.1	31.1	Nevada	Humboldt	Lower Quinn	16040202
509.1	509.2	0.1	Nevada	Humboldt	Thousand-Virgin	16040205
509.2	510.7	1.6	Nevada	Humboldt	Craine Creek	1604020505
509.2	510.7	1.6	Nevada	Humboldt	Craine Creek	1604020505
510.7	516.6	5.9	Nevada	Humboldt	Craine Creek	1604020505
510.7	516.6	5.9	Nevada	Humboldt	Craine Creek	1604020505
516.6	519.6	3.0	Nevada	Humboldt	Craine Creek	1604020505
516.6	519.6	3.0	Nevada	Humboldt	Craine Creek	1604020505
519.6	520.1	0.5	Nevada	Humboldt	Lower Quinn	16040202
520.1	520.9	0.7	Nevada	Humboldt	Thousand-Virgin	16040205
520.9	525.6	4.8	Nevada	Humboldt	Lower Quinn	16040202
525.6	525.7	0.0	Nevada	Humboldt	Thousand-Virgin	16040205
525.7	525.8	0.1	Nevada	Humboldt	Virgin Creek	1604020502
525.7	525.8	0.1	Nevada	Humboldt	Virgin Creek	1604020502
525.8	525.8	0.1	Nevada	Humboldt	Thousand-Virgin	16040205
525.8	530.6	4.7	Nevada	Humboldt	Virgin Creek	1604020502
525.8	530.6	4.7	Nevada	Humboldt	Virgin Creek	1604020502
530.6	530.6	0.0	Nevada	Humboldt	Thousand-Virgin	16040205
530.6	536.0	5.3	Nevada	Humboldt	Smoke Creek Desert	16040203
536.0	542.9	6.9	Nevada	Washoe	Smoke Creek Desert	16040203
542.9	575.2	32.3	Nevada	Washoe	Massacre Lake	16040204
575.2	575.2	0.0	Nevada	Washoe	Warner Lakes	17120007
575.2	583.0	7.8	Nevada	Washoe	Twentymile Creek	1712000701
575.2	583.0	7.8	Nevada	Washoe	Twentymile Creek	1712000701
583.0	588.2	5.2	Nevada	Washoe	Twentymile Creek	1712000701
583.0	588.2	5.2	Nevada	Washoe	Twentymile Creek	1712000701
588.2	590.3	2.1	Oregon	Lake	Twentymile Creek	1712000701
588.2	590.3	2.1	Oregon	Lake	Twentymile Creek	1712000701
590.3	591.4	1.1	Oregon	Lake	Twentymile Creek	1712000701
590.3	591.4	1.1	Oregon	Lake	Twentymile Creek	1712000701
591.4	591.5	0.0	Oregon	Lake	Twentymile Creek	1712000701
591.4	591.5	0.0	Oregon	Lake	Twentymile Creek	1712000701
591.5	591.5	0.0	Oregon	Lake	Twentymile Creek	1712000701
591.5	591.5	0.0	Oregon	Lake	Twentymile Creek	1712000701
591.5	592.9	1.4	Oregon	Lake	Twentymile Creek	1712000701
591.5	592.9	1.4	Oregon	Lake	Twentymile Creek	1712000701
592.9	593.6	0.7	Oregon	Lake	Twentymile Creek	1712000701
592.9	593.6	0.7	Oregon	Lake	Twentymile Creek	1712000701
593.6	594.6	1.0	Oregon	Lake	Twentymile Creek	1712000701
593.6	594.6	1.0	Oregon	Lake	Twentymile Creek	1712000701
594.6	594.6	0.0	Oregon	Lake	Twentymile Creek	1712000701
594.6	594.6	0.0	Oregon	Lake	Twentymile Creek	1712000701
594.6	595.3	0.7	Oregon	Lake	Twentymile Creek	1712000701
594.6	595.3	0.7	Oregon	Lake	Twentymile Creek	1712000701
595.3	598.4	3.1	Oregon	Lake	Twentymile Creek	1712000701
595.3	598.4	3.1	Oregon	Lake	Twentymile Creek	1712000701
598.4	598.5	0.1	Oregon	Lake	Deep Creek	1712000703
598.4	598.5	0.1	Oregon	Lake	Deep Creek	1712000703
598.5	598.5	0.0	Oregon	Lake	Twentymile Creek	1712000701

**Table 2-1 Watersheds Crossed by the Proposed Ruby Pipeline Project (Route Version 26-  
November 2008)**

Start MP	End MP	Intersecting Length (Miles)	State	County	Watershed	Hydrologic Unit Code
598.5	598.5	0.0	Oregon	Lake	Twentymile Creek	1712000701
598.5	601.5	3.0	Oregon	Lake	Deep Creek	1712000703
598.5	601.5	3.0	Oregon	Lake	Deep Creek	1712000703
601.5	606.9	5.5	Oregon	Lake	Deep Creek	1712000703
601.5	606.9	5.5	Oregon	Lake	Deep Creek	1712000703
606.9	608.2	1.3	Oregon	Lake	Deep Creek	1712000703
606.9	608.2	1.3	Oregon	Lake	Deep Creek	1712000703
608.2	608.6	0.4	Oregon	Lake	Deep Creek	1712000703
608.2	608.6	0.4	Oregon	Lake	Deep Creek	1712000703
608.6	608.7	0.1	Oregon	Lake	Deep Creek	1712000703
608.6	608.7	0.1	Oregon	Lake	Deep Creek	1712000703
608.7	609.9	1.1	Oregon	Lake	Deep Creek	1712000703
608.7	609.9	1.1	Oregon	Lake	Deep Creek	1712000703
609.9	611.7	1.8	Oregon	Lake	Thomas Creek	1802000102
611.7	619.5	7.8	Oregon	Lake	Willow Creek-Frontal Goose Lake	1802000103
619.5	619.7	0.2	Oregon	Lake	Thomas Creek	1802000102
619.7	620.9	1.2	Oregon	Lake	Drews Creek	1802000101
620.9	621.9	1.1	Oregon	Lake	Goose Lake	1802000105
621.9	622.2	0.3	Oregon	Lake	Drews Creek	1802000101
622.2	622.3	0.1	Oregon	Lake	Goose Lake	1802000105
622.3	622.6	0.3	Oregon	Lake	Drews Creek	1802000101
622.6	622.7	0.1	Oregon	Lake	Goose Lake	1802000105
622.7	622.7	0.0	Oregon	Lake	Drews Creek	1802000101
622.7	622.9	0.2	Oregon	Lake	Goose Lake	1802000105
622.9	624.1	1.2	Oregon	Lake	Drews Creek	1802000101
624.1	624.1	0.0	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
624.1	625.7	1.5	Oregon	Lake	Goose Lake	1802000105
625.7	625.8	0.2	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
625.8	625.8	0.0	Oregon	Lake	Goose Lake	1802000105
625.8	626.0	0.2	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
626.0	626.1	0.0	Oregon	Lake	Goose Lake	1802000105
626.1	626.2	0.1	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
626.2	626.2	0.0	Oregon	Lake	Goose Lake	1802000105
626.2	626.2	0.0	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
626.2	626.3	0.1	Oregon	Lake	Goose Lake	1802000105
626.3	626.8	0.4	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
626.8	627.2	0.5	Oregon	Lake	Goose Lake	1802000105
627.2	629.3	2.1	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
629.3	638.1	8.8	Oregon	Lake	Dry Creek-Frontal Goose Lake	1802000104
638.1	644.5	6.4	Oregon	Lake	North Fork Willow Creek-Willow Creek	1801020402
644.5	647.4	2.9	Oregon	Lake	North Fork Willow Creek-Willow Creek	1801020402
647.4	647.8	0.4	Oregon	Klamath	North Fork Willow Creek-Willow Creek	1801020402
647.8	653.1	5.3	Oregon	Klamath	Rock Creek-Lost River	1801020404
653.1	658.2	5.1	Oregon	Klamath	Rock Creek-Lost River	1801020404
658.2	660.1	1.9	Oregon	Klamath	Rock Creek-Lost River	1801020404
660.1	669.6	9.6	Oregon	Klamath	Langell Valley-Lost River	1801020406
669.6	675.1	5.4	Oregon	Klamath	Mills Creek-Lost River	1801020409

Key:

Data Source: <http://datagateway.nrcs.usda.gov/Catalog/ProductDescription/WBDHU12.html>

Where Hydrologic Unit Code (HUC) - 10 data were not available, HUC - 8 data were used.

### 3 Applicable Regulatory Requirements

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

- Wyoming Department of Environmental Quality;
- Utah Department of Environmental Quality – Division of Air Quality;
- Nevada Division of Environmental Protection (NDEP), for all parts of Nevada except Washoe County;
- Washoe County District Health Department – Air Quality Management Division (WC-AQMD); and
- Oregon Department of Environmental Quality.

A summary of the air quality agency fugitive dust regulatory requirements applicable to Project construction activities is presented in Table 3-1. The NDEP and WC-AQMD require specific plans and/or permits for large-scale construction projects. Prior to initial construction activities, an application for a surface area disturbance permit/fugitive dust control plan for Project construction activities in Elko and Humboldt Counties, Nevada would be prepared and submitted to the NDEP and an application for a dust control permit for Project construction activities in Washoe County, Nevada will be prepared and submitted to the WC-AQMD.

**Table 3-1 Applicable Fugitive Dust Regulations**

Air Quality Agency	Rule Number and Title	Rule Description
WC-AQMD	040.030 (Dust Control)	The purpose of this rule is to limit particulate material emissions into the ambient air from any property, operations or activities that may serve as a fugitive dust source.
NDEP	NAC 445B.22037 (Emissions of Particulate Matter: Fugitive Dust)	Requirements for fugitive dust control and requirements for dust control plans and permits.

### 4 Fugitive Dust Control Measures

The generation of fugitive dust during construction activities would be reduced through the application of appropriate control measures. Abatement measures will be utilized as needed and appropriate to a particular situation. Based on typical practices for natural gas pipeline installation and the requirements of the aforementioned agencies, the following specific control measures are to be used as needed to control fugitive dust emissions for the Project.

- Construction equipment and vehicles will be properly maintained.

- Existing public and private roads and pipeline ROW should be utilized for access during construction wherever possible.
- Apply water one or more times per day to all affected unpaved roads and unpaved haul and access roads.
- Reduce vehicle speeds on all unpaved roads, and unpaved haul and access roads. Speed limits may be set for travel on unpaved roads.
- Clean up track-out and/or carry-out areas at paved road access points at a minimum of once every 48 hours.
- Gravel pads may be installed adjacent to paved roadways to limit track-out, and clearly established and enforced traffic patterns may be used to route traffic over track-out control devices.
- For bulk transfer operations, spray handling and transfer points with water at least 15 minutes before use.
- Cover all haul truck loads, or maintain at least six (6) inches of freeboard space in each cargo compartment. Insure that all haul truck cargo compartments are constructed and maintained to minimize spillage and loss of materials, and clean or wash each cargo compartment at the delivery site after removal of the bulk materials.
- Apply water to active construction areas as needed. Areas should be pre-watered and soils maintained in a stabilized condition where support equipment and vehicles will operate. Disturbed soils will be watered to form a crust.
- For temporary surfaces during periods of inactivity, restrict vehicular access by means of either fencing or signage, and apply water to comply with the stabilized surface requirements.

Water trucks will be the primary means of dust abatement during all phases of construction. Water for dust control will be obtained from municipal water systems at a variety of locations along the pipeline routes and will be of potable quality. If water is acquired from canals along the pipeline route, this water is suitable for agriculture and, if treated, for potable use. Water spray will be controlled so that over-spraying and pooling will be avoided to the extent possible. Where roads are paved, no dust mitigation may be necessary.

## **5 Inspection, Monitoring, and Recordkeeping**

The Project contractors will implement the dust control measures specified in this plan and in the dust control permits issued by NDEP and WC-AQMD. Environmental inspectors will be primarily responsible for monitoring and enforcing the implementation of needed dust control measures. The inspectors will also be responsible for making sure that dust control is effective and proper documentation is maintained. All construction site personnel will be educated on the measures outlined in this plan.

Field inspection for dust control will occur daily. The Project contractor(s) and the environmental inspector(s) will be responsible for recording the following information on a daily basis:

- weather conditions (temperature, wind speed, and direction);
- number of water trucks in use;
- cases where visible dust was of such a concentration that abatement measures were implemented;
- condition of project soils (crusted, damp, or unstable);
- condition of project access roads (crusted, damp, or unstable);
- presence of track-out and when it was cleaned;
- overall status of dust control compliance.

This information will be incorporated into the environmental inspector's daily report.