

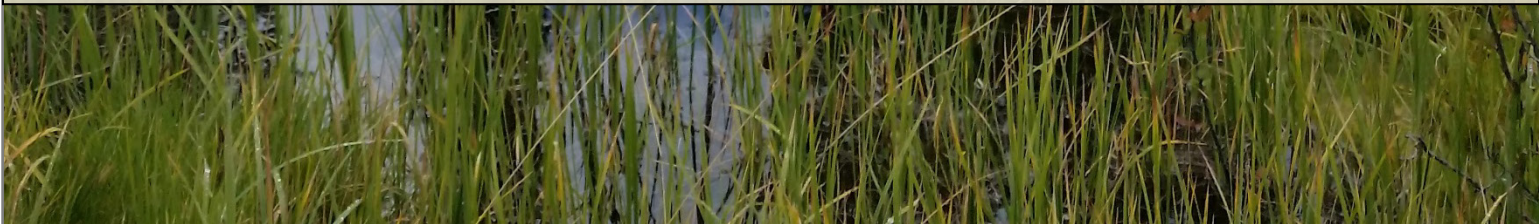


Colorado Department of Transportation Roadside Fen Inventory

Appendix B: Fen Site Descriptions



May 2018



This Appendix accompanies the report:

Lemly, J., K. Schroder, L. Long, and G. Smith. 2018. Colorado Department of Transportation Roadside Fen Inventory. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

The full report is available on the Colorado Natural Heritage Program website:

<https://cnhp.colostate.edu/>

Fen Polygon: 005A - 3006

Nearest Milepoint: SH 103, MP 13

Location: Echo Lake, Junction of State Hwy 5 and State Hwy 103

Surveyed Date: 8/22/2017

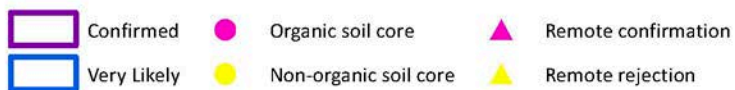
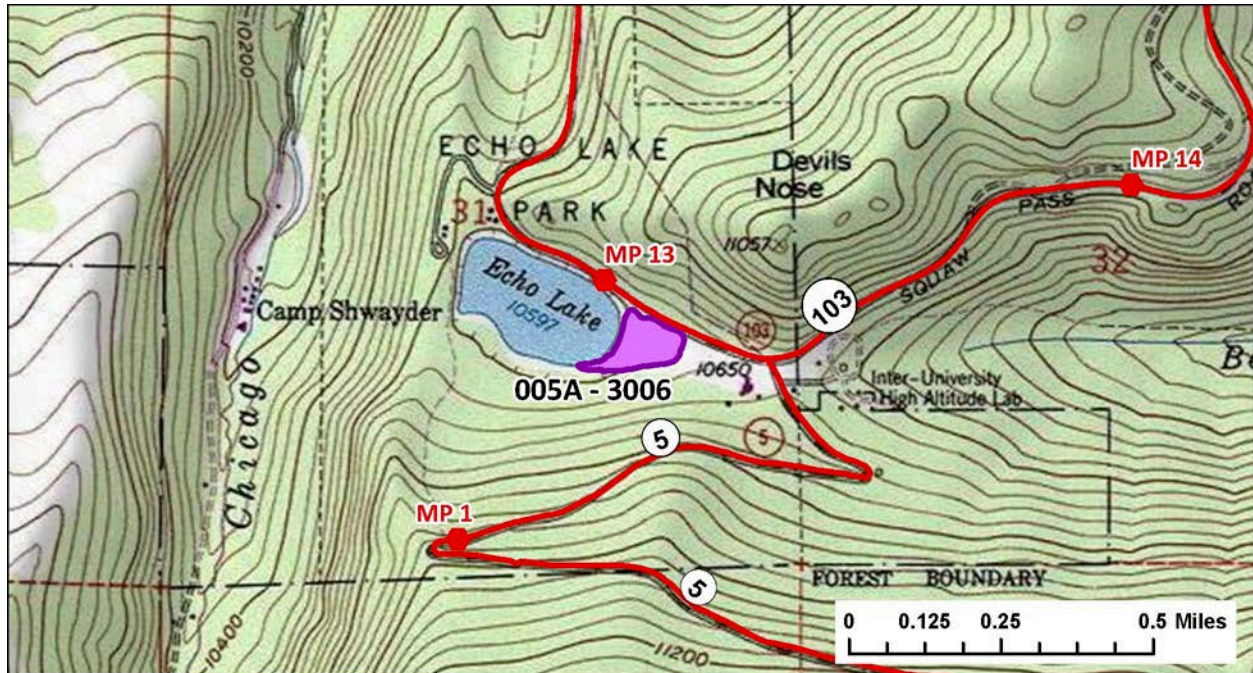
Proximity to Hwy: 5-10 m (15-30 ft)

Elevation: 10,600 ft

Size: 5.55 acres

ROW Status: Public Easement

Primary Landowner: Denver Mountain Parks



Description: Fen draining into Echo Lake. Soil core extracted greater than 40 cm of brown peat. The site is dominated by patches of *Carex aquatilis* and *Salix planifolia*. The center of the fen is about 70 m from Highway 103.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CALAM	<i>Calamagrostis</i>	4	3.5
CASI2	<i>Carex simulata</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
STELL	<i>Stellaria</i>	2	0.5

Fen Polygon: 006F - 2973

Nearest Milepoint: I-70, MP 216

Location: Loveland Ski Area, Jct of I-70 and US Hwy 6

Surveyed Date: 6/18/2017, remotely viewed

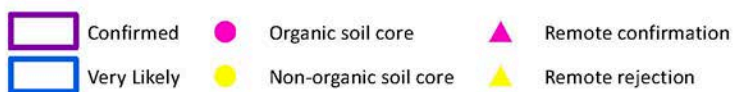
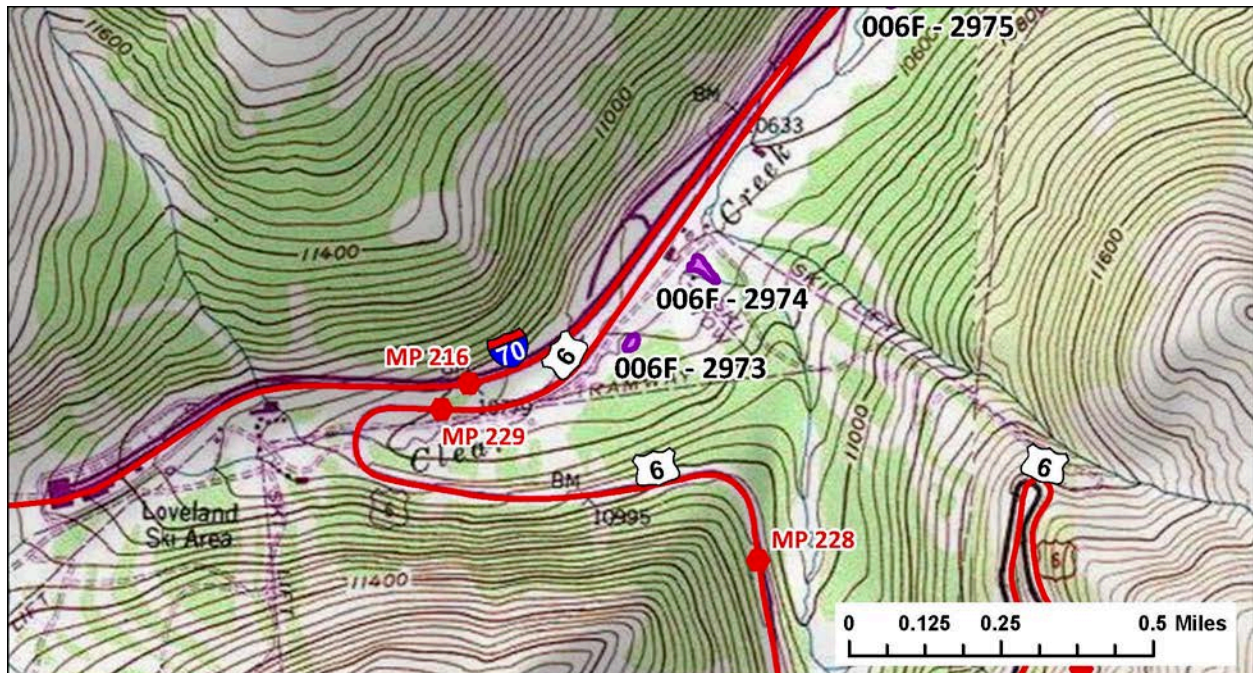
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,686 ft

Size: 0.25 acres

ROW Status: Public Easement

Primary Landowner: Arapaho National Forest



Description: Could not cross river to sample, but area is a confirmed fen from previous survey (Jones et al. 2009). *Psychrophila leptosepala*, *Salix planifolia*, and *Carex aquatilis* prominent at site.

Site Photo



Fen Polygon: 006F - 2974

Nearest Milepoint: I-70, MP 216

Location: Loveland Ski Area, Jct of I-70 and US Hwy 6

Surveyed Date: 6/18/2017

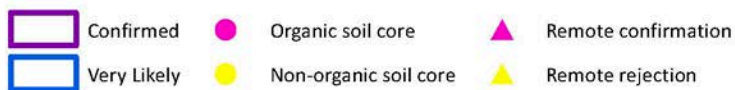
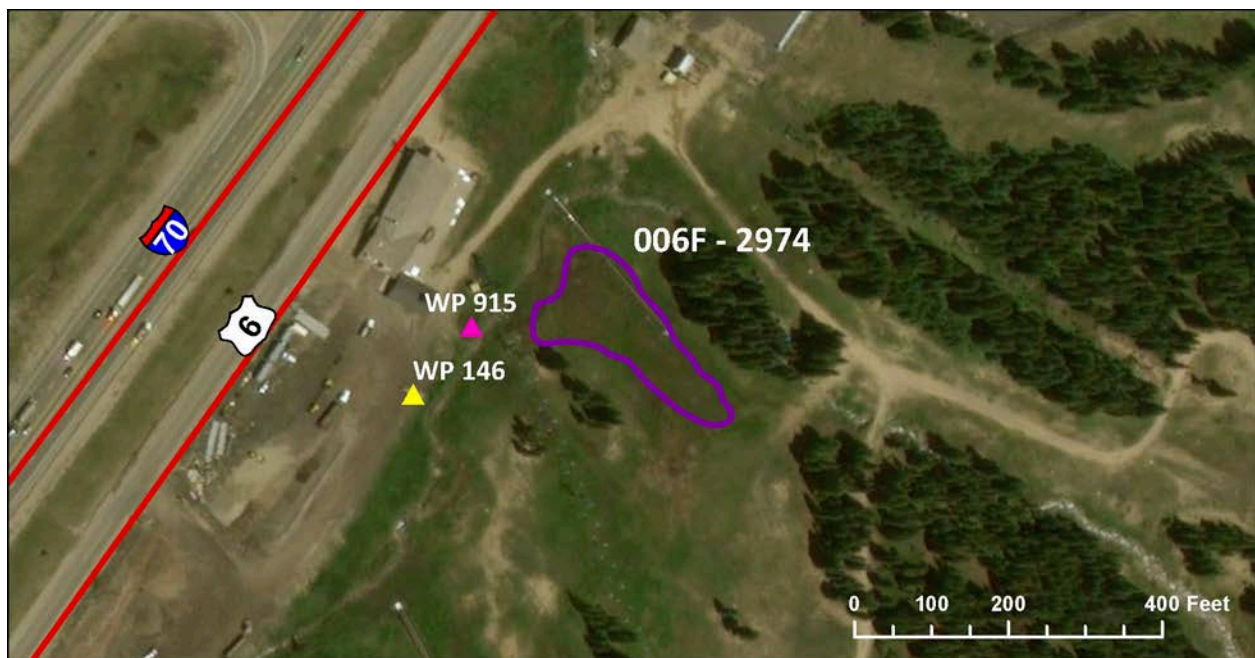
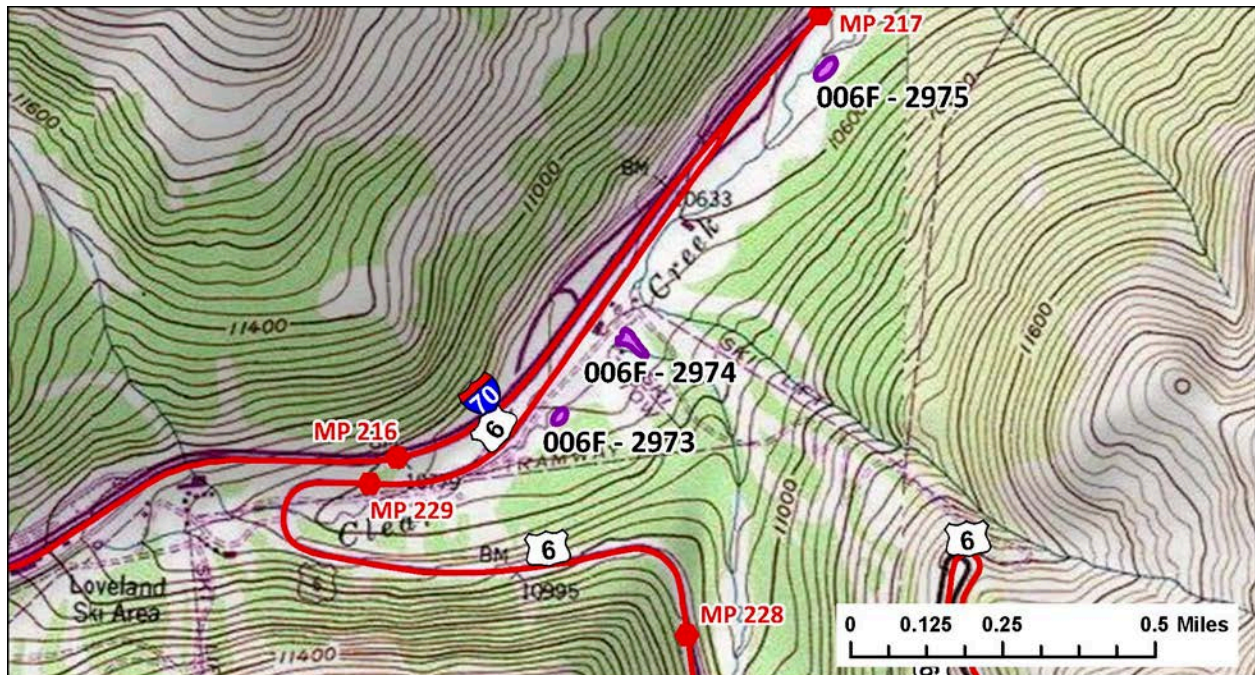
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,659 ft

Size: 0.54 acres

ROW Status: Public Easement

Primary Landowner: Arapaho National Forest



Description: Polygon located among Loveland ski resort infrastructure. Area is a confirmed fen from previous survey (Jones et al. 2009). Polygon has fen vegetation dominated by *Salix planifolia* and *Calamagrostis*. At base of ski hill (magic carpet bisects polygon).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	6	17.5
CALAM	<i>Calamagrostis</i>	5	7.5
CANE2	<i>Carex nebrascensis</i>	5	7.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
F-APIAC	<i>Apiaceae</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
STELL	<i>Stellaria</i>	2	0.5

Fen Polygon: 006F - 2975

Nearest Milepoint: I-70, MP 217

Location: Near Loveland Ski Area, along the I-70

Surveyed Date: 6/18/2017

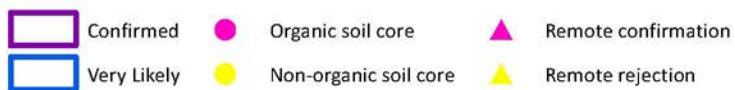
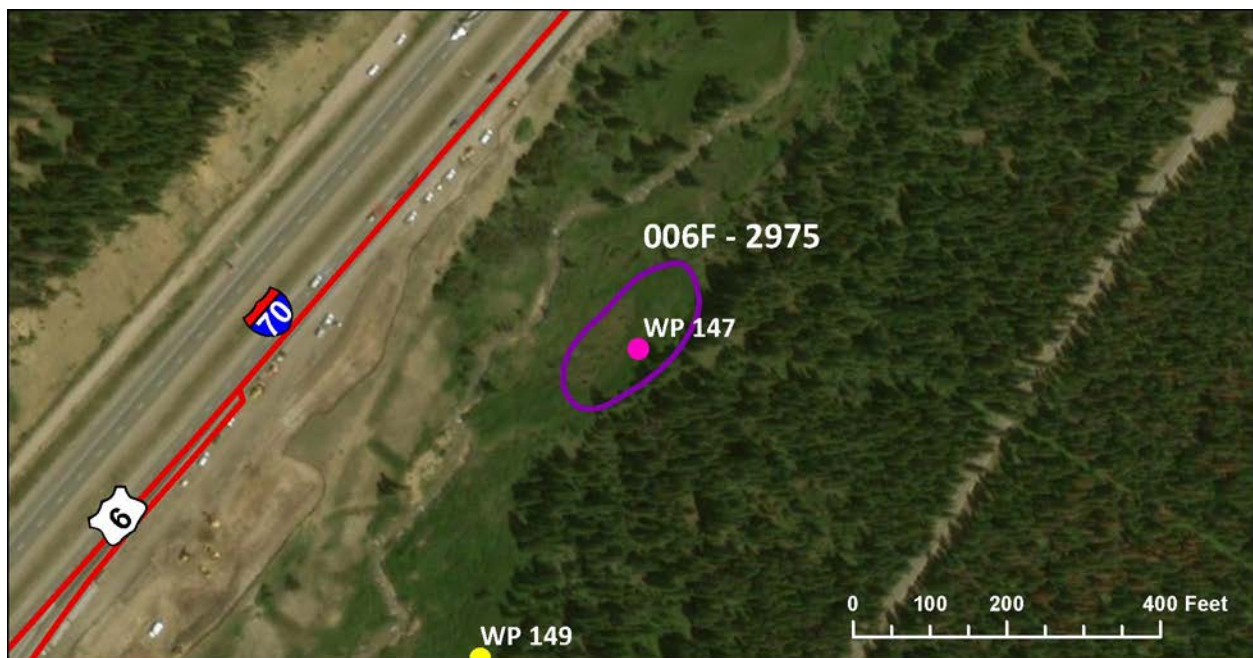
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,551 ft

Size: 0.46 acres

ROW Status: Public Easement

Primary Landowner: Arapaho National Forest



Description: Fen at the bottom of the mountain slope, adjacent to creek. 85 cm of peat before a gravelly horizon begins. Several seeps run through the fen and lead into the creek. Some small pockets of standing water. Possible historic beaver presence.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
F-ASTER	<i>Asteraceae</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
MECI3	<i>Mertensia ciliata</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
ANCA44	<i>Anemonidium canadense</i>	3	1.5
CAUT	<i>Carex utriculata</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
DERA	<i>Delphinium ramosum</i>	3	1.5
GAHU	<i>Gaultheria humifusa</i>	3	1.5
PIEN	<i>Picea engelmannii</i>	3	1.5
SAGLV	<i>Salix glauca</i> var. <i>villosa</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
CALAM	<i>Calamagrostis</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
JUNCU	<i>Juncus</i>	2	0.5
KAMI	<i>Kalmia microphylla</i>	2	0.5
NOMO2	<i>Noccaea montana</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
POGR9	<i>Potentilla gracilis</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
VACE	<i>Vaccinium cespitosum</i>	2	0.5
VASC	<i>Vaccinium scoparium</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5
CAREX	<i>Carex</i>	1	0.1
EQAR	<i>Equisetum arvense</i>	1	0.1
MIOR2	<i>Micranthes oregana</i>	1	0.1
RANUN	<i>Ranunculus</i>	1	0.1
VERON	<i>Veronica</i>	1	0.1

Fen Polygon: 006F - 3019

Nearest Milepoint: U.S. 6, MP 224

Location: Loveland Pass

Surveyed Date: 8/9/2017

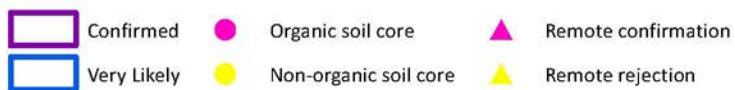
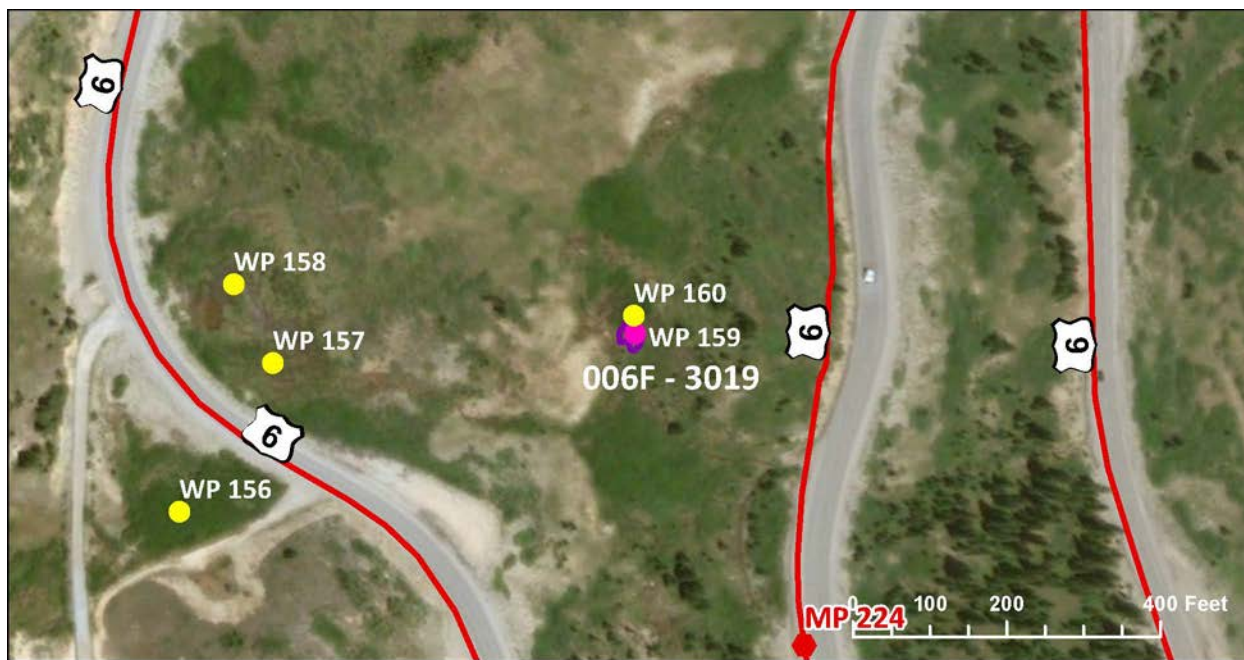
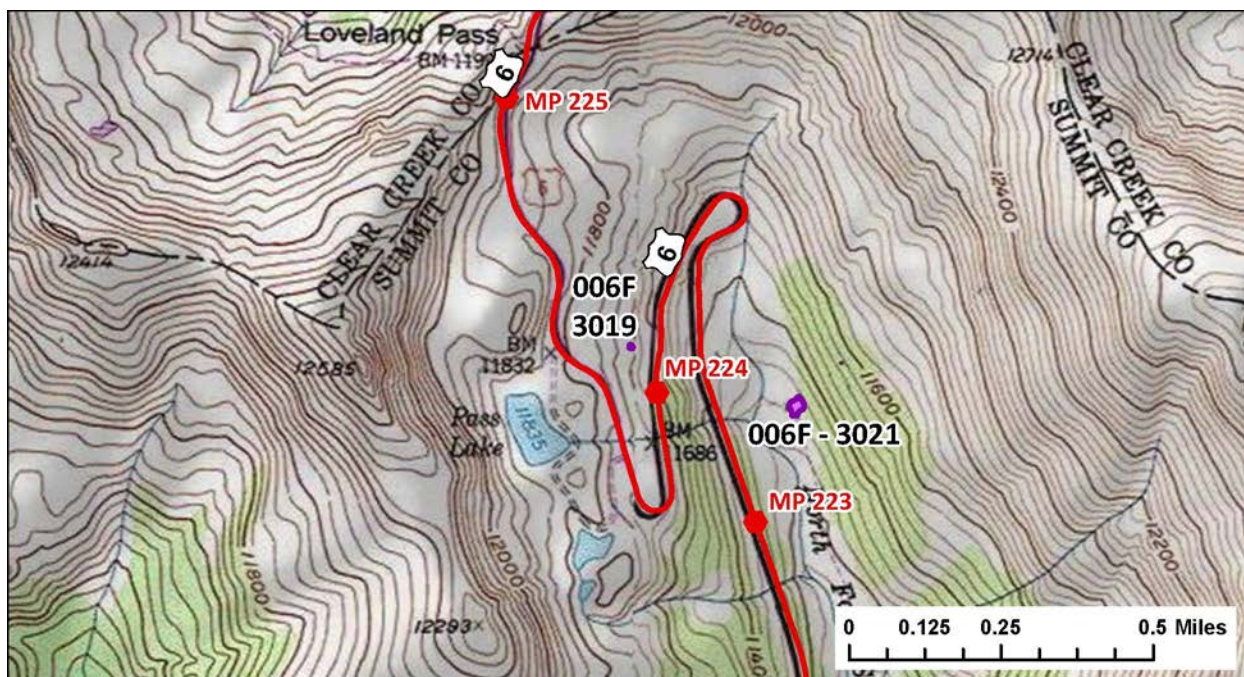
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 11,693 ft

Size: 0.02 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Very small fen, consisting primarily of *Carex aquatilis*. High elevation depression/seep that has accumulated over 40 cm peat.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
SAPL2	<i>Salix planifolia</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	1	0.1

Fen Polygon: 006F - 3021

Nearest Milepoint: U.S. 6, MP 223

Location: Loveland Pass, near North Fork Snake River

Surveyed Date: 8/9/2017

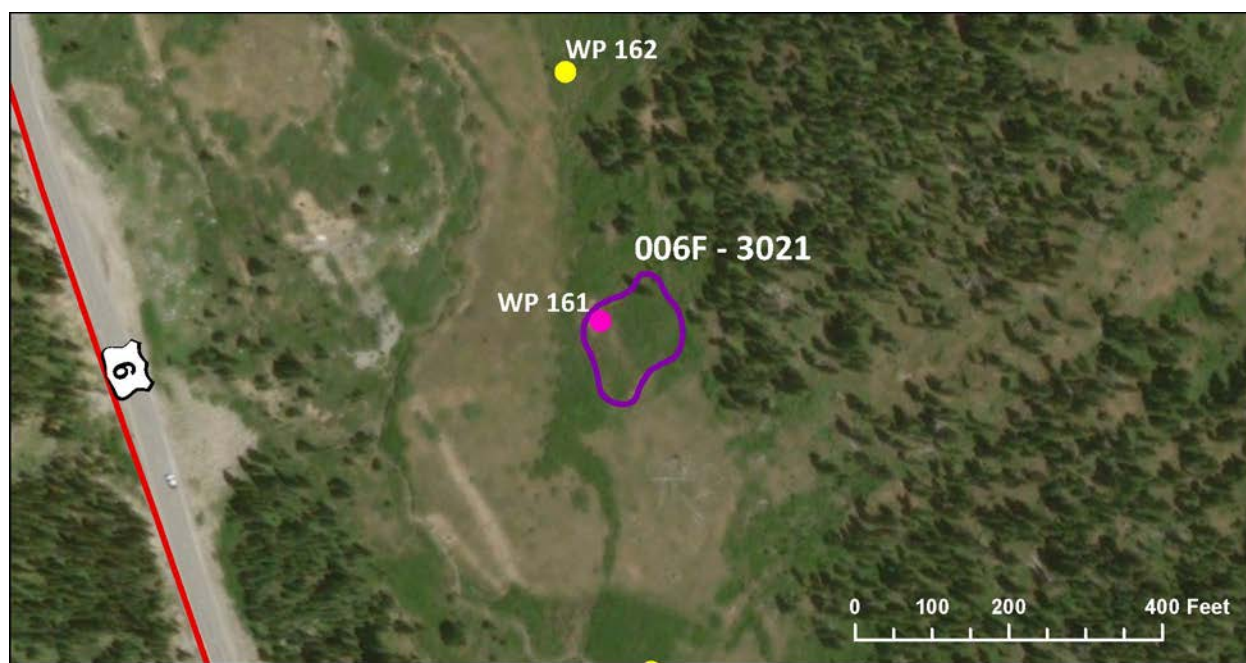
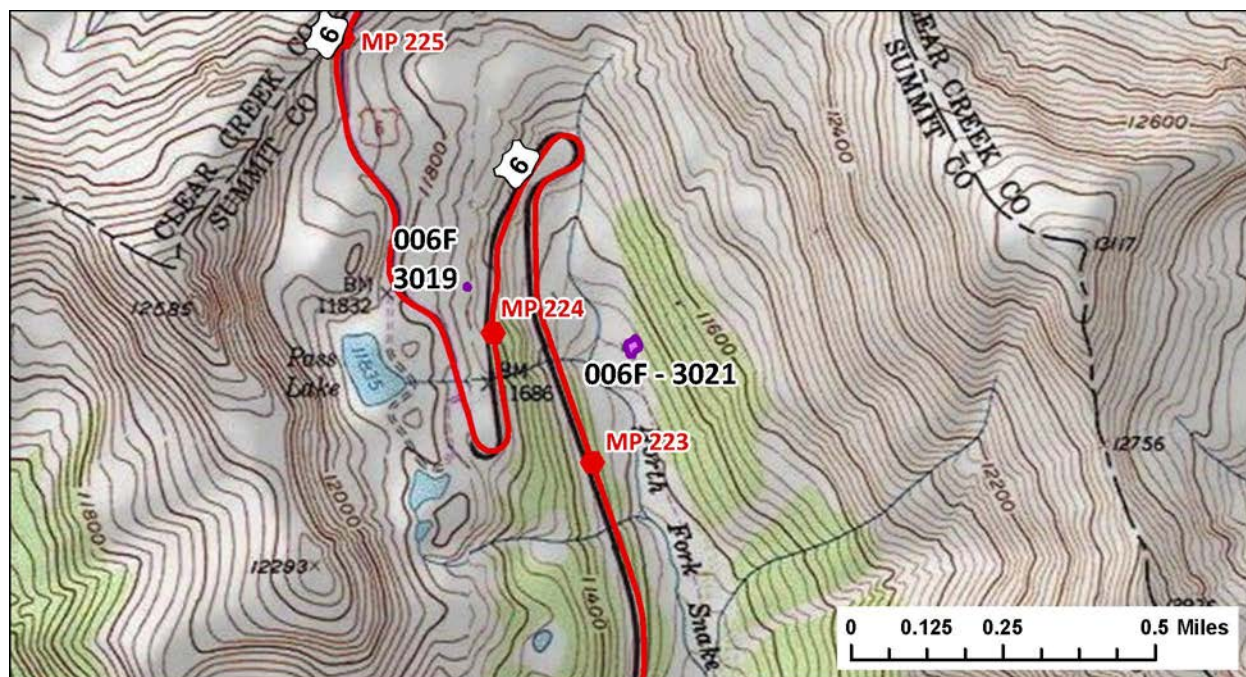
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 11,283 ft

Size: 0.32 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



- | | | |
|-------------|-----------------------|---------------------|
| Confirmed | Organic soil core | Remote confirmation |
| Very Likely | Non-organic soil core | Remote rejection |



Description: Fen meadow interspersed with patches of *Salix planifolia*. At base of steep slope in a river canyon, about 100 m from stream.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CALAM	<i>Calamagrostis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
CAOC4	<i>Castilleja occidentalis</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 009B - 3091

Nearest Milepoint: SH 9, MP 49

Location: Near Hartsel, adjacent to Fourmile Creek

Surveyed Date: 6/6/2017

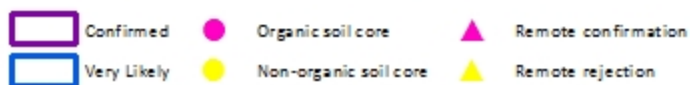
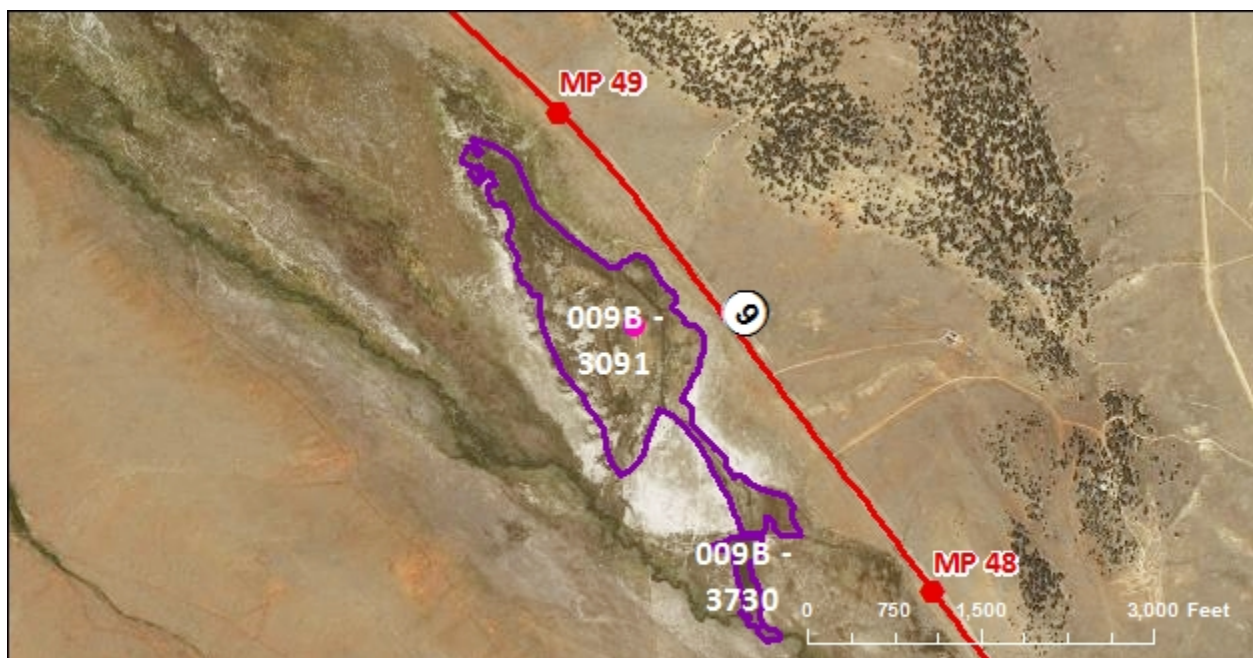
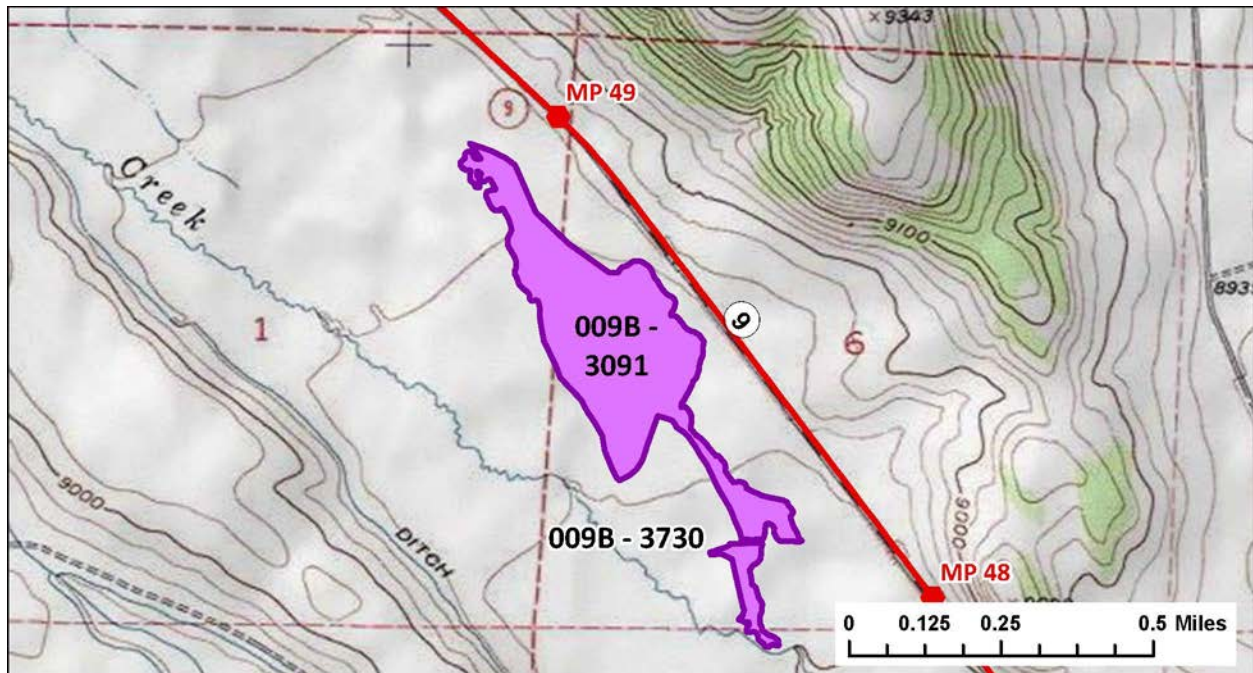
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 8,934 ft

Size: 55.63 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Private



Description: No soil pit dug due to land ownership. Polygon is a known fen from previous survey (Johnson & Gerhardt 2002). May contain *Primula egaliksensis*.

Site Photo



Fen Polygon: 009B – 3095

Nearest Milepoint: SH 9, MP 55

Location: Adjacent to the Middle Fork South Platte River

Surveyed Date: N/A

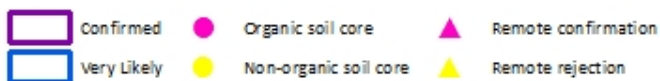
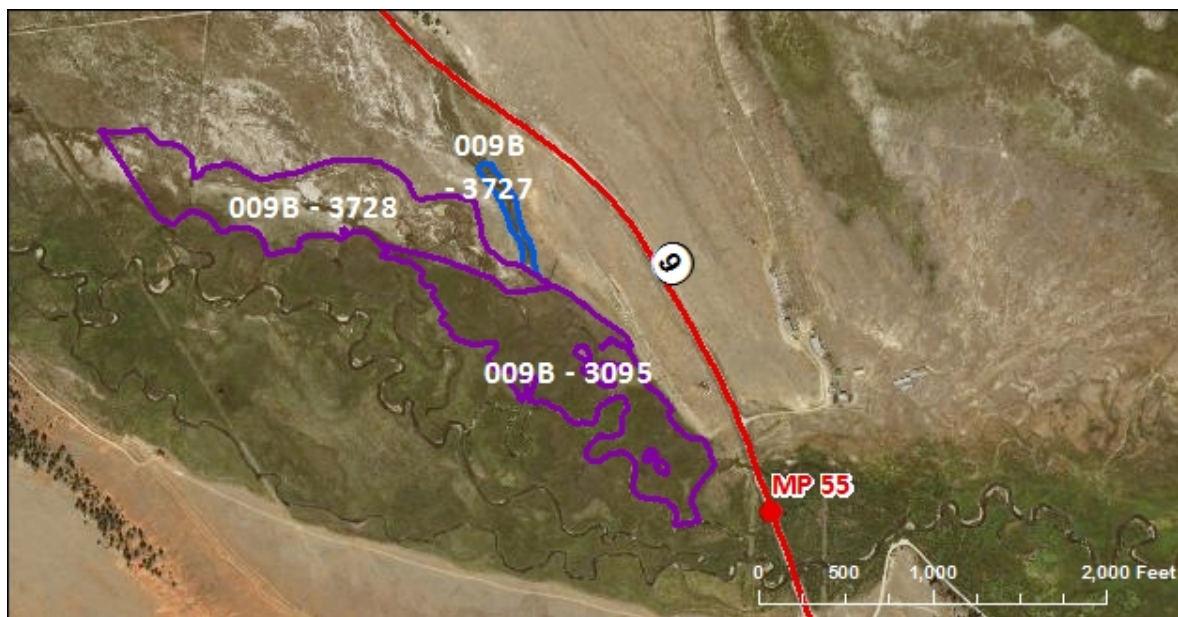
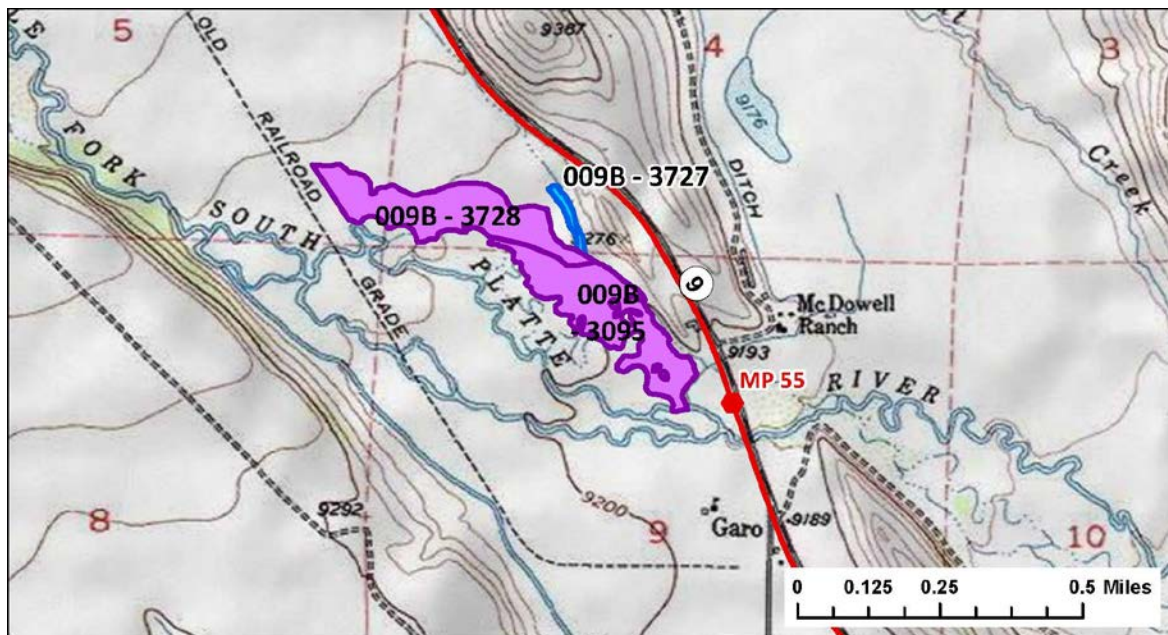
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 9,196 ft

Size: 19.91 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Private



Description: Polygon not surveyed. However, area contains a known fen from previous survey (Johnson & Gerhardt 2002).

Fen Polygon: 009B - 3719

Nearest Milepoint: SH 9, MP 60

Location: Adjacent to the Middle Fork South Platte River

Surveyed Date: 6/6/2017

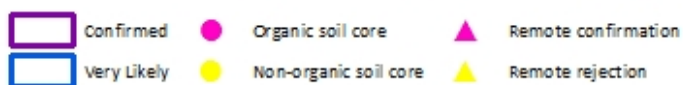
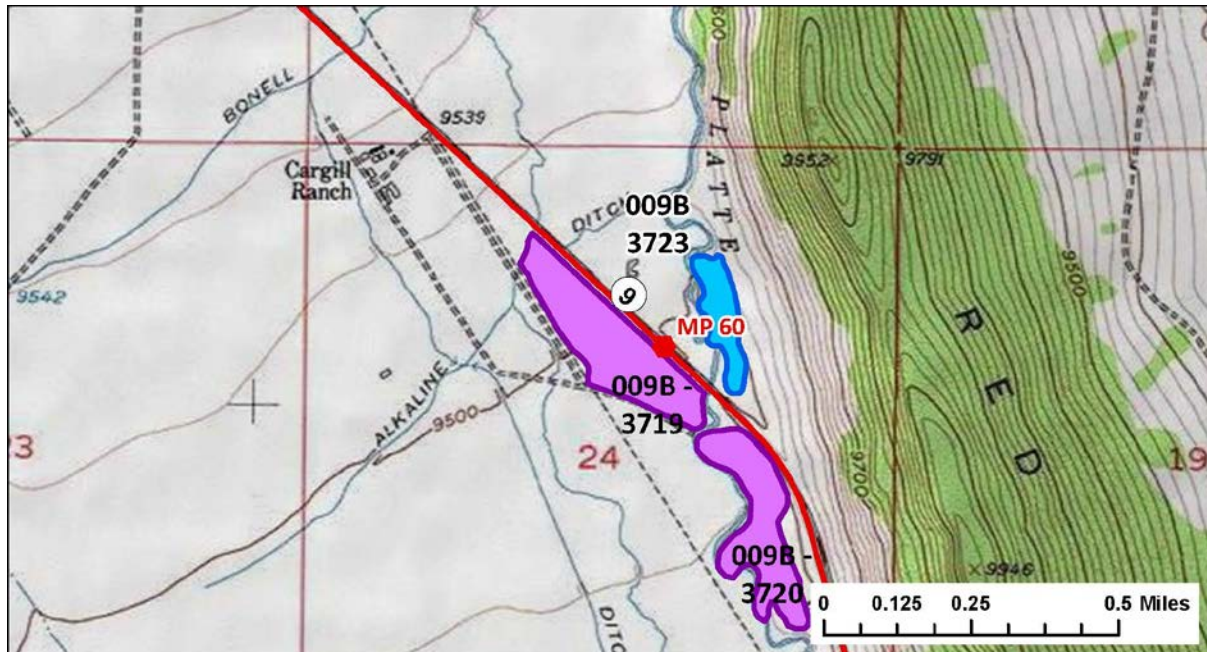
Proximity to Hwy: <5 m (16 ft)

Elevation: 9,508 ft

Size: 23.94 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Colorado Open Lands (Land Trust)



Description: Polygon viewed from ROW. Polygon is a documented fen from previous survey (Johnson & Gerhardt 2002). ROW contains contiguous wetland but is not a fen.

Site Photo



Fen Polygon: 009B - 3720

Nearest Milepoint: SH 9, MP 60

Location: Adjacent to the Middle Fork South Platte River

Surveyed Date: 6/6/2017

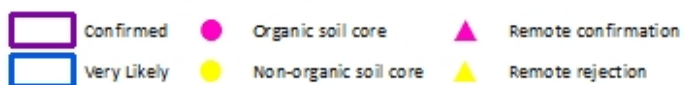
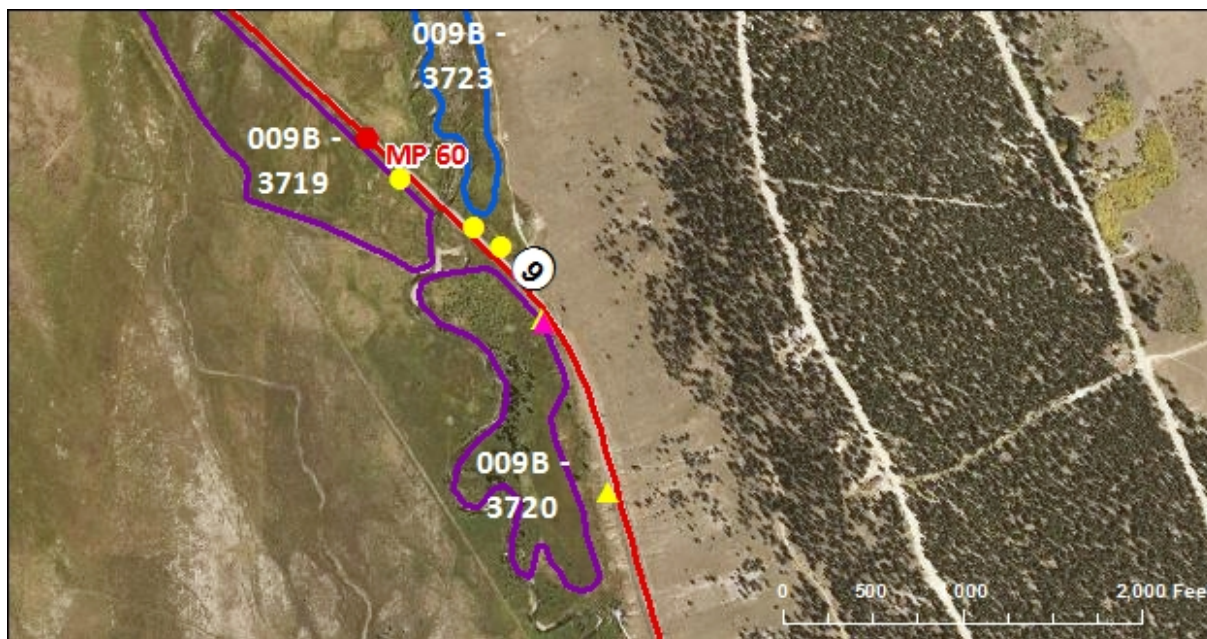
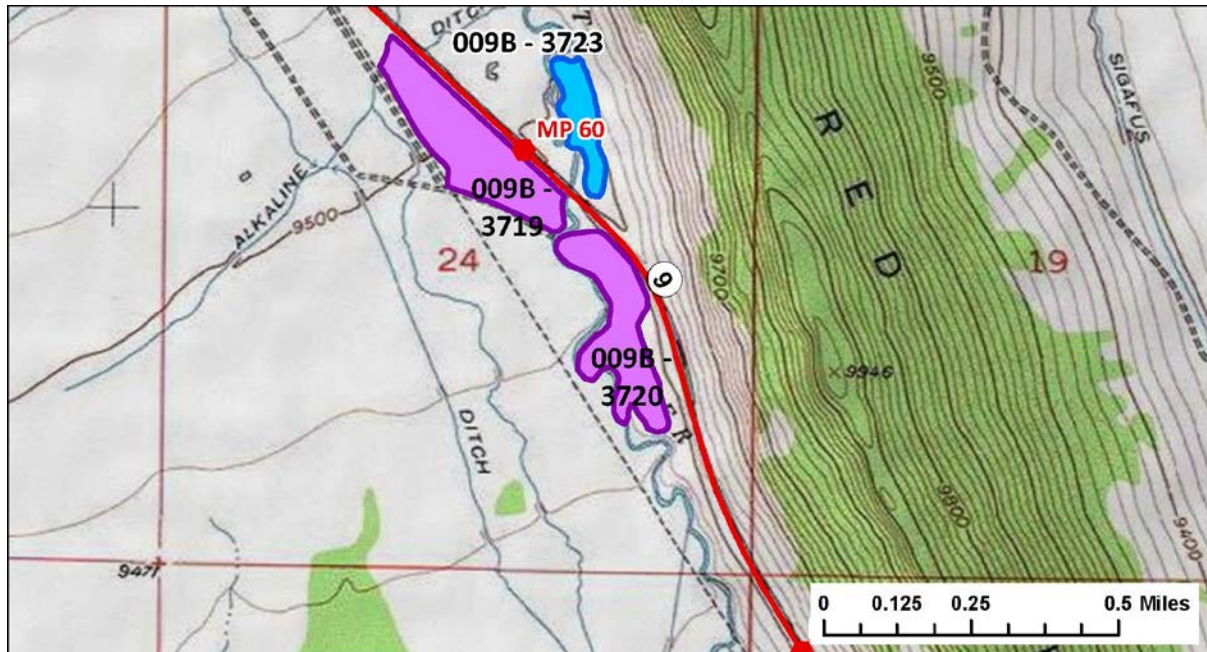
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,482 ft

Size: 17.24 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Colorado Open Lands (Land Trust)



Description: Polygon viewed from ROW. Polygon is a documented fen from previous survey (Johnson & Gerhardt 2002). ROW does not contain fen.

Site Photo



Fen Polygon: 009B - 3728

Nearest Milepoint: SH 9, MP 56

Location: Adjacent to the Middle Fork South Platte River

Surveyed Date: N/A

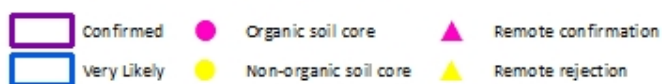
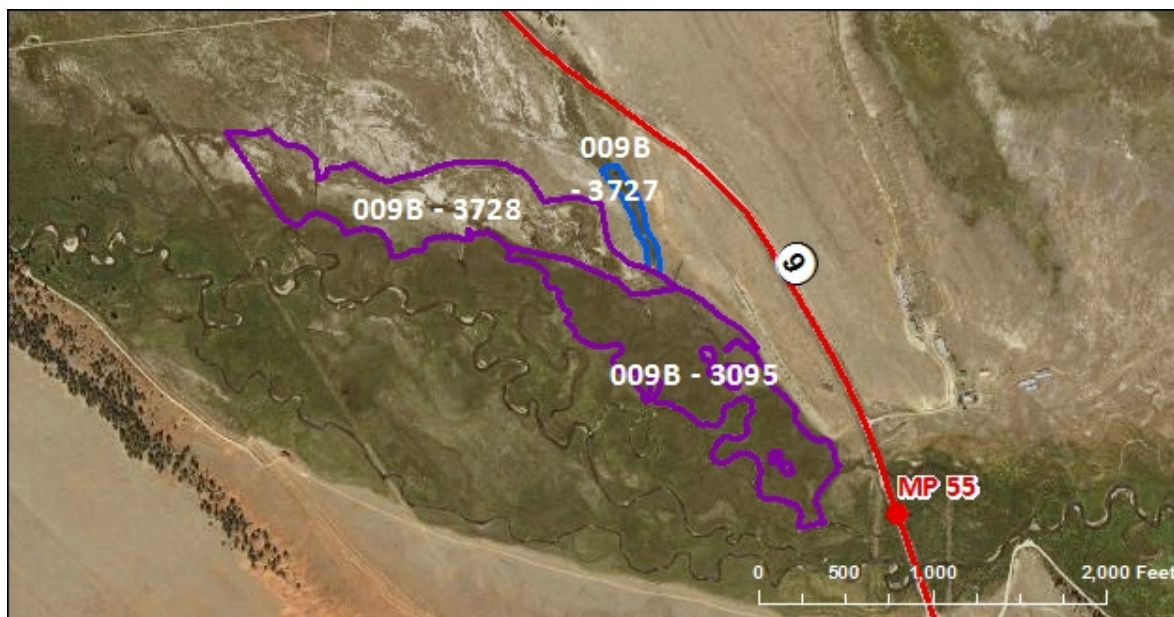
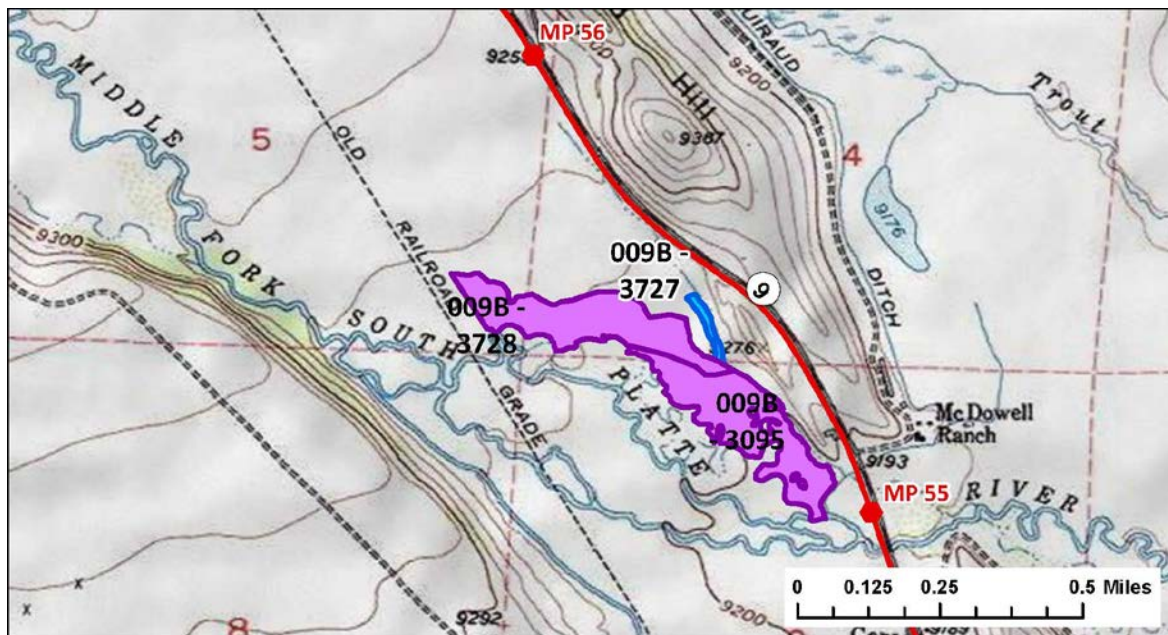
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,213 ft

Size: 19.74 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Private



Description: Polygon not surveyed. On private property. Area is a known fen from previous survey (Johnson & Gerhardt 2002).

Fen Polygon: 009B - 3730

Nearest Milepoint: SH 9, MP 48

Location: Near Hartsel and Fourmile Creek

Surveyed Date: N/A

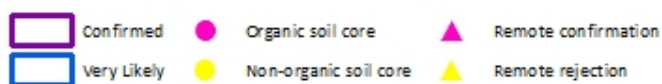
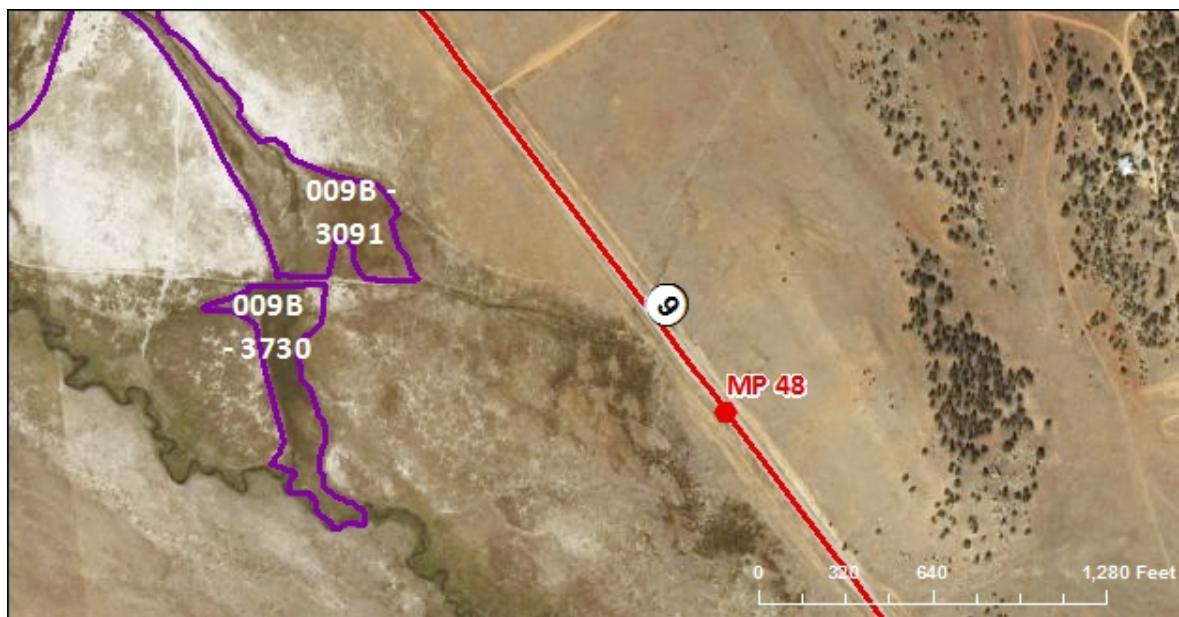
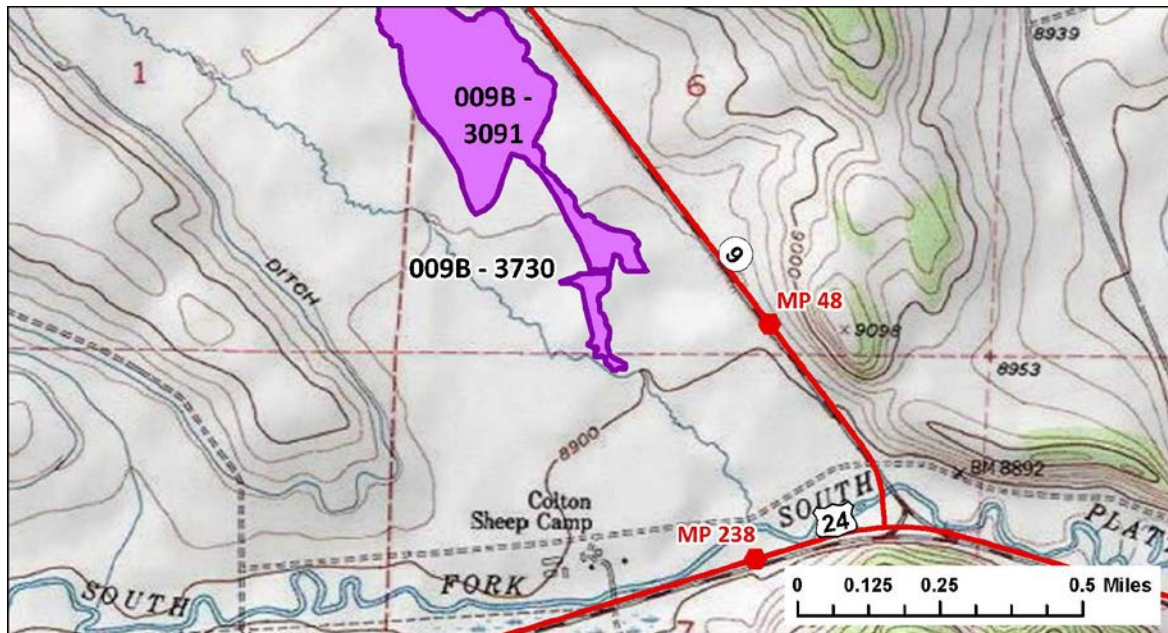
Proximity to Hwy: >200 m (656 ft)

Elevation: 8,917 ft

Size: 3.61 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Private



Description: Polygon not surveyed. On private property. Area is a known fen from previous survey (Johnson & Gerhardt 2002).

Fen Polygon: 009C - 2913

Nearest Milepoint: SH 9, MP 77

Location: Hoosier Pass

Surveyed Date: 6/16/2017

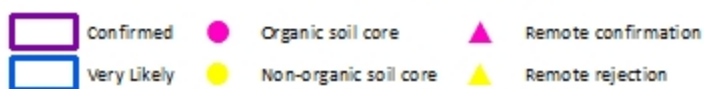
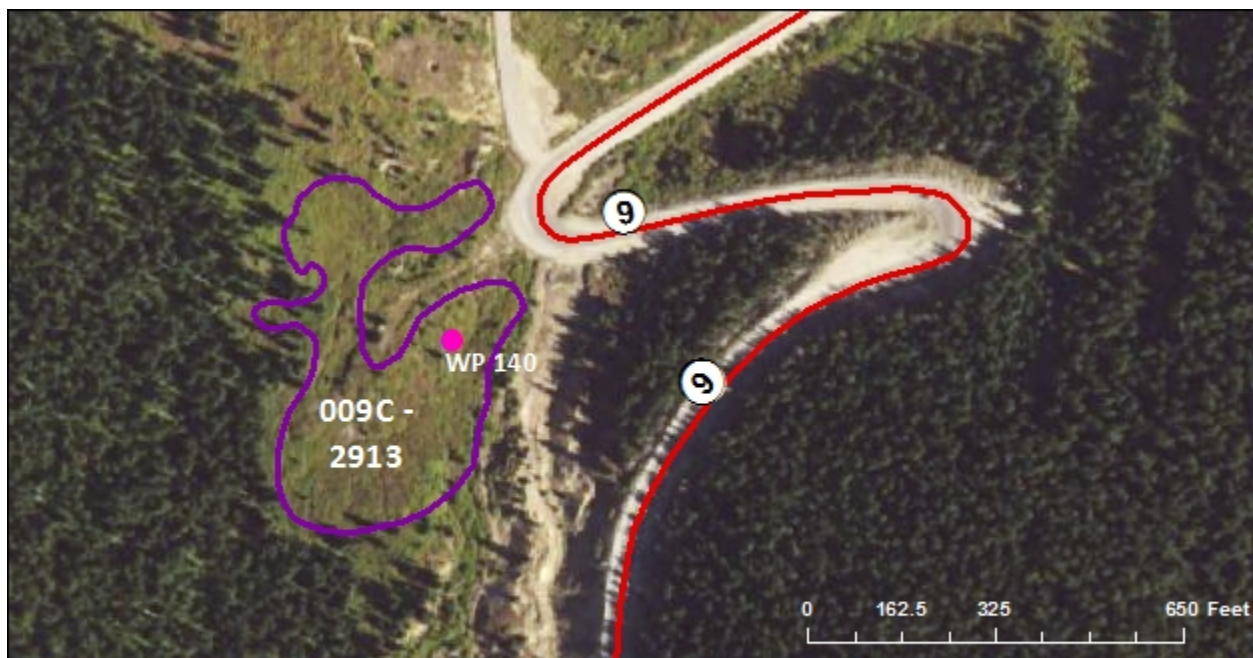
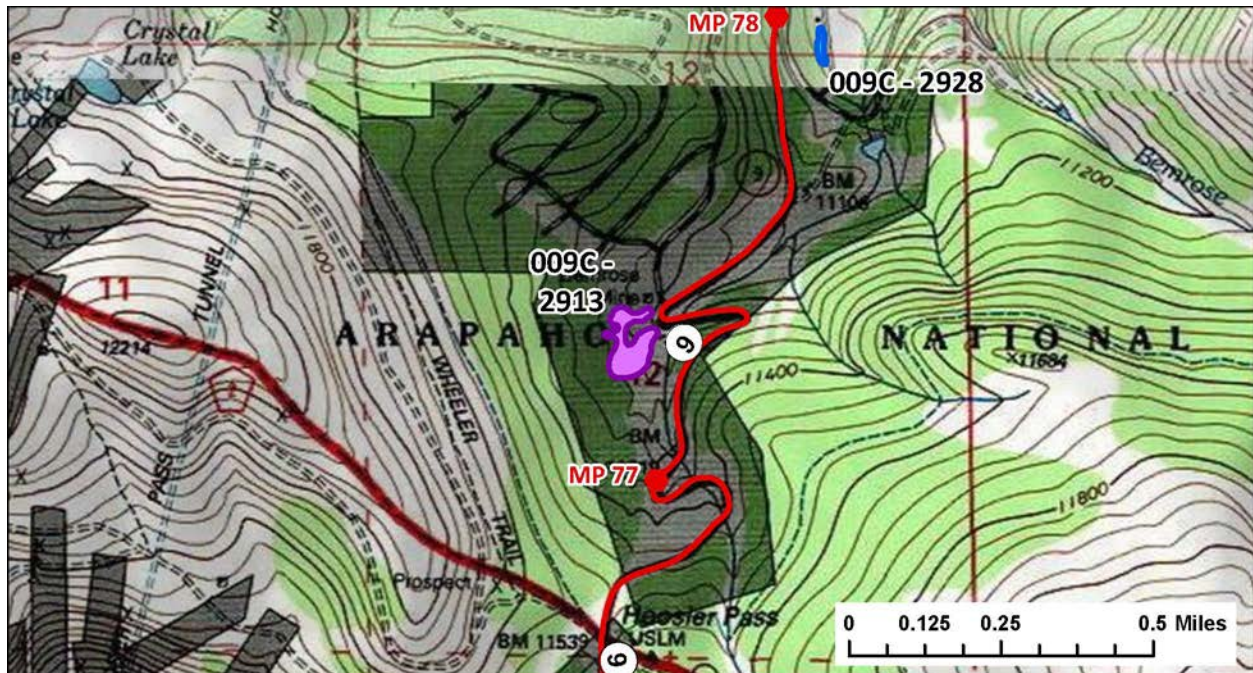
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 11,240 ft

Size: 3.77 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Wet seep fen in the high alpine under steep slopes. Area dominated by 5-6 ft willows and *Carex utriculata*. Wet pocket surrounded by dry upland.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SALIX	<i>Salix</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SETR	<i>Senecio triangularis</i>	4	3.5
DEBA2	<i>Delphinium barbeyi</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
NOMO2	<i>Noccaea montana</i>	2	0.5
RANUN	<i>Ranunculus</i>	2	0.5
VERON	<i>Veronica</i>	2	0.5

Fen Polygon: 009C - 2940

Nearest Milepoint: SH 9, MP 95

Location: Near the Blue River arm of Dillon Reservoir

Surveyed Date: N/A

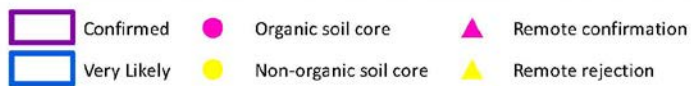
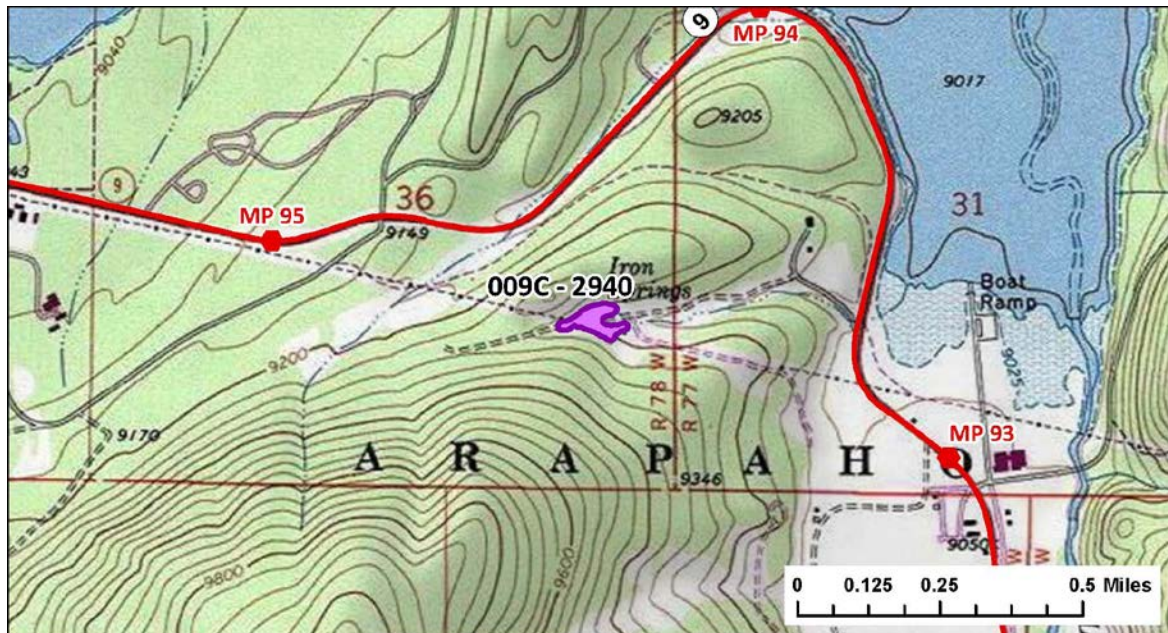
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,226 ft

Size: 2.38 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Polygon not surveyed. Confirmed as fen in previous survey (Rocchio 2007). Polygon contains Iron Springs on topographic map.

Fen Polygon: 014B - 0273

Nearest Milepoint: SH 14, MP 70

Location: Near the turnoff for Long Draw Rd on State Highway 14

Surveyed Date: 6/14/2016

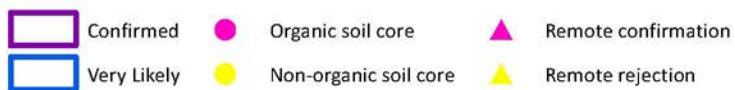
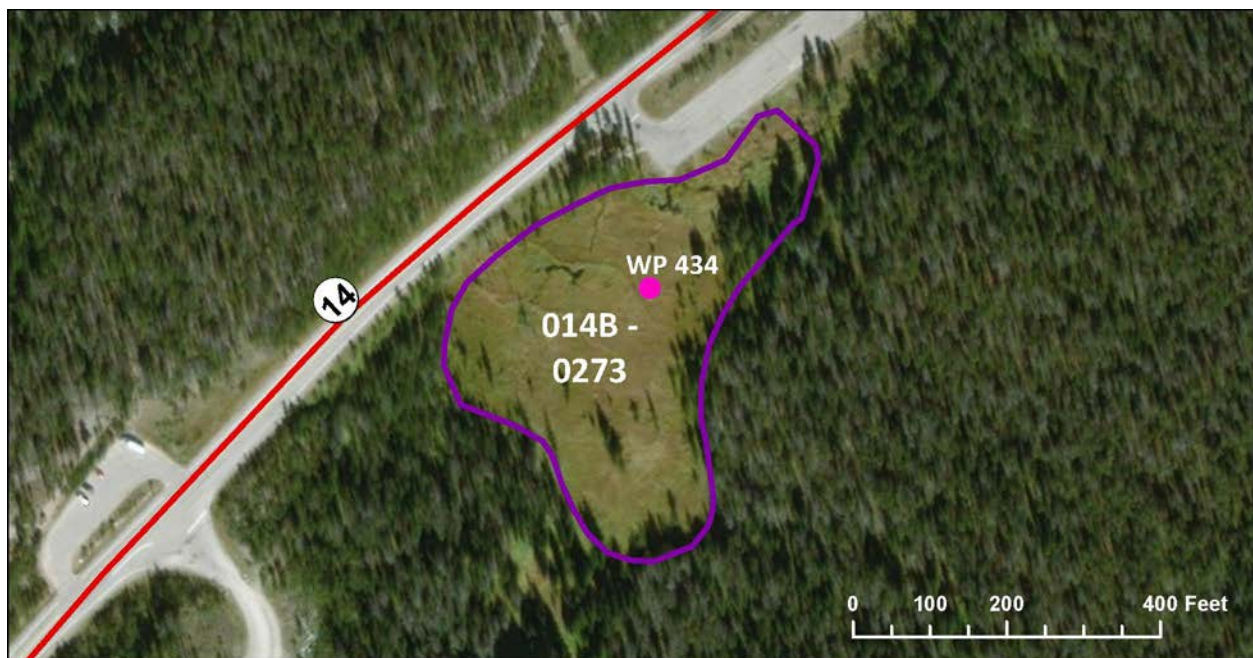
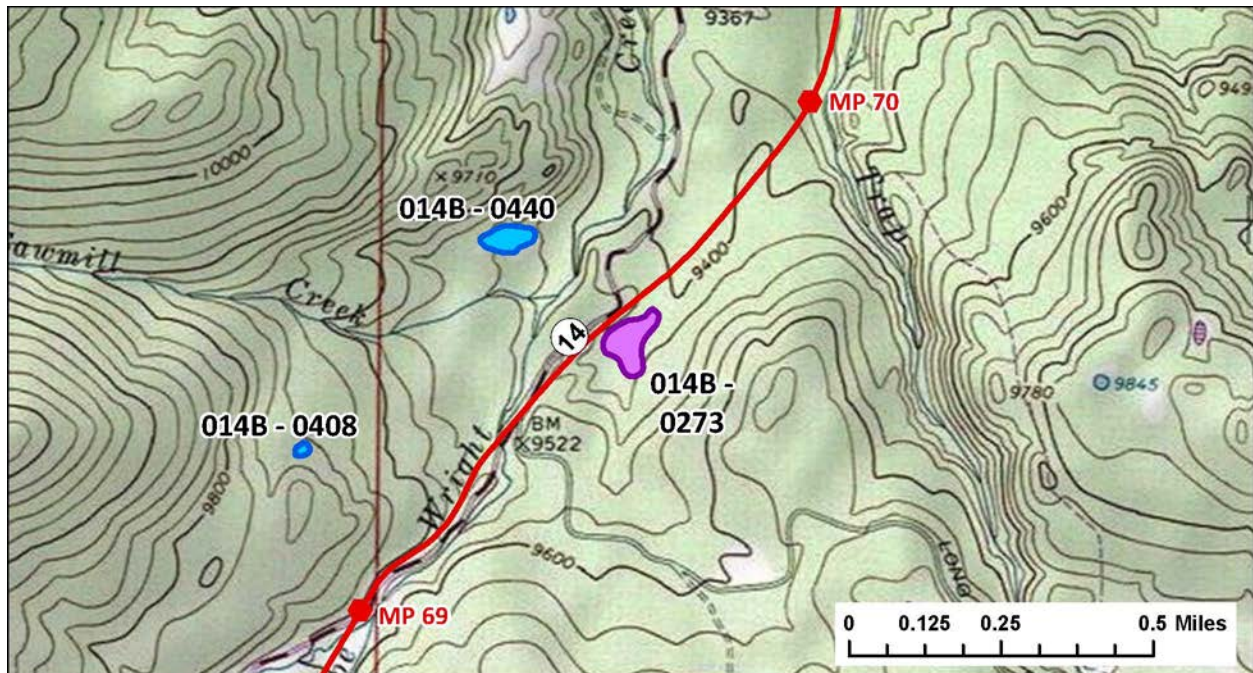
Proximity to Hwy: <5 m (16 ft)

Elevation: 9,465 ft

Size: 3.32 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest



Description: Gently sloping fen, south of small stream channel. Low willow dominated, with shallow standing water and 50-60 cm peat soil. Peat soil ends at stream. Area surrounded by mixed coniferous forest with beetle kill trees. Signs of beaver.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5

Fen Polygon: 014B - 0415

Nearest Milepoint: SH 14, MP 66

Location: South of Joe Wright Reservoir

Surveyed Date: 6/14/2016

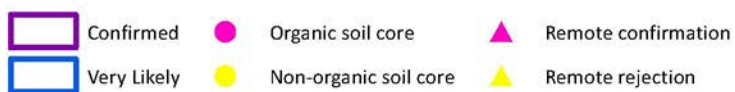
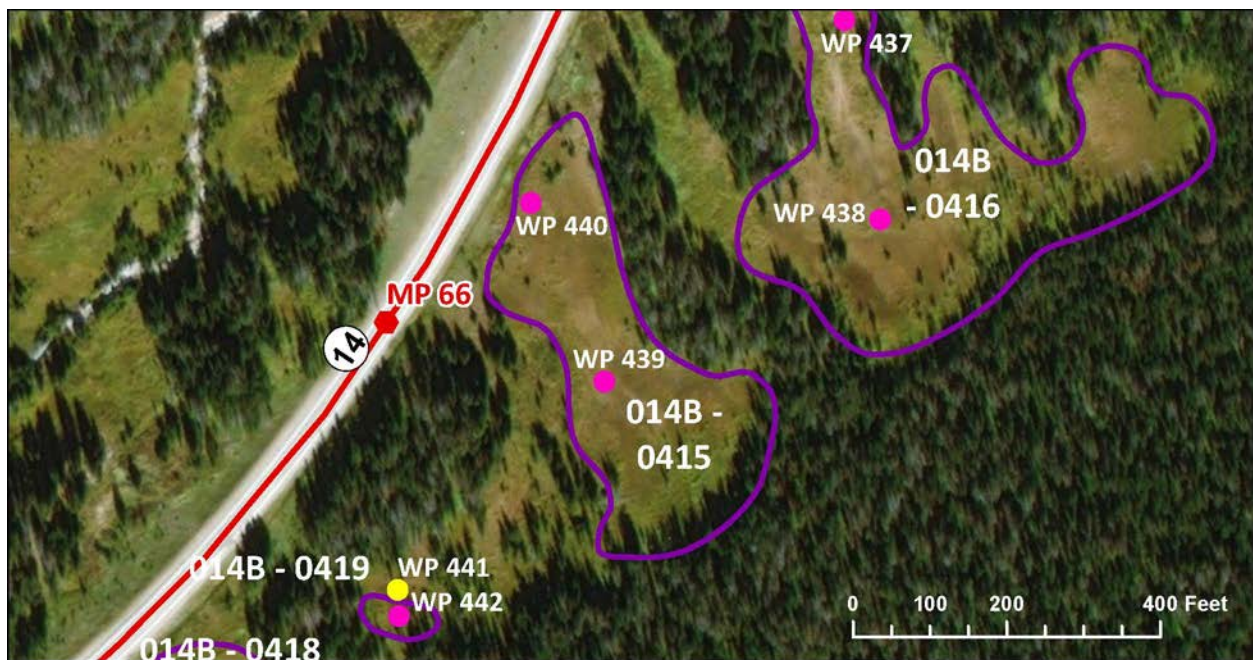
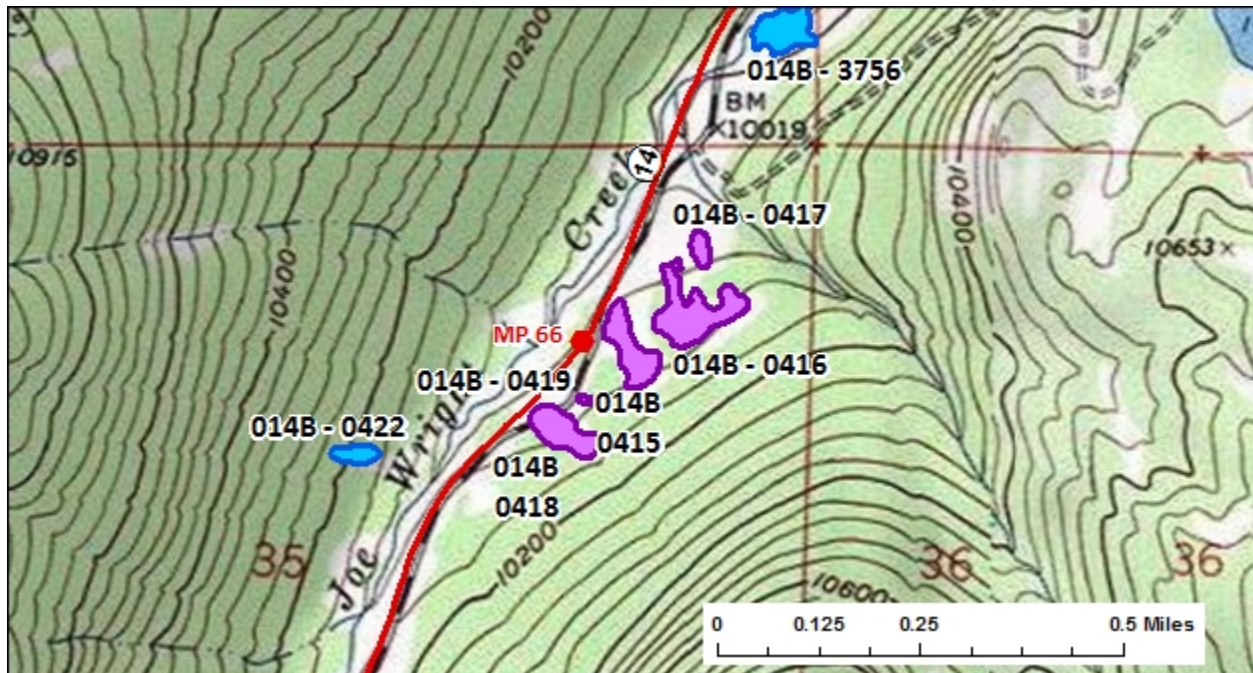
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,105 ft

Size: 2.17 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest



Description: Gradually sloping fen, dominated by *Eleocharis* and *Carex*. Approximately 5% slope. Visited early in season. *Picea* and *Salix* on margins of polygon. Extends close to the highway, until a steep drop-off at the roadside.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CAUT	<i>Carex utriculata</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
ANEMO	<i>Anemone</i>	2	0.5

Fen Polygon: 014B - 0416

Nearest Milepoint: SH 14, MP 66

Location: South of Joe Wright Reservoir

Surveyed Date: 6/14/2016

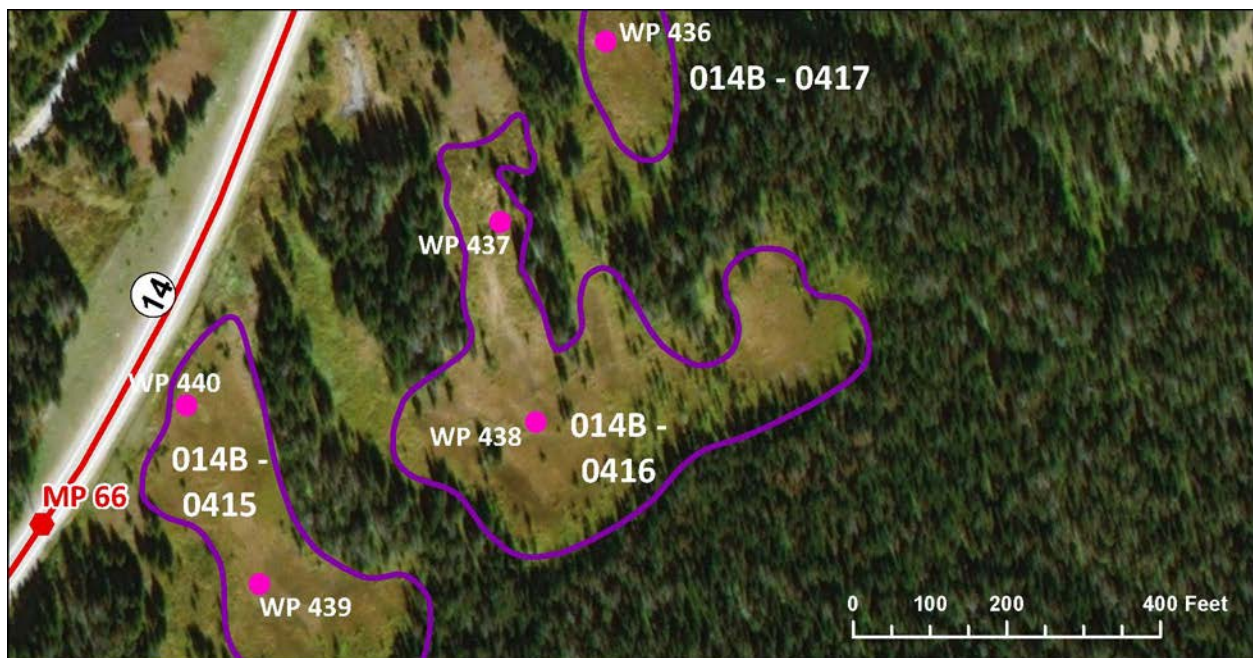
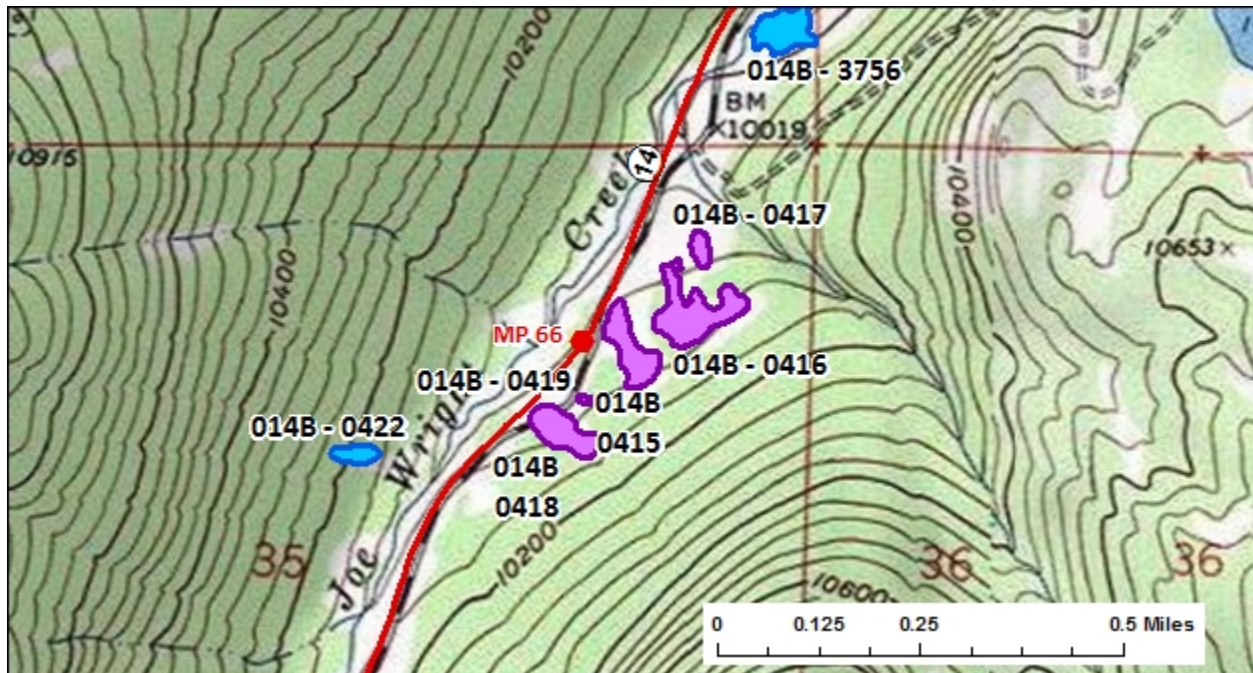
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,105 ft

Size: 3.45 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest

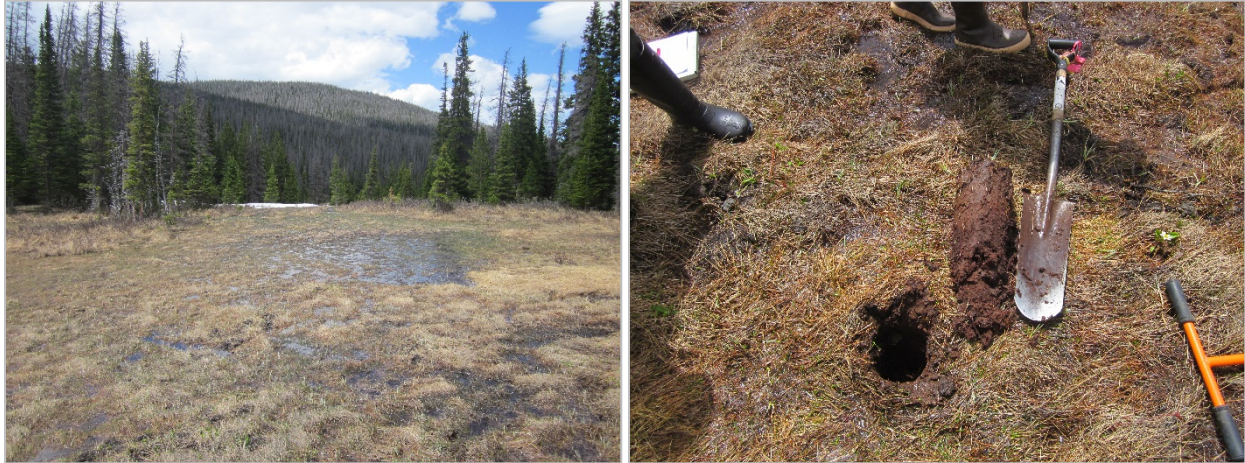


- | | | |
|---|---|---|
|  Confirmed |  Organic soil core |  Remote confirmation |
|  Very Likely |  Non-organic soil core |  Remote rejection |



Description: Sloping *Eleocharis* dominated fen. Approximately 10% slope. Evidence of browse on willows. *Picea*, *Salix*, and some *Abies* on margins. Visited early in season.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
PIEN	<i>Picea engelmannii</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
ANEMO	<i>Anemone</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5

Fen Polygon: 014B - 0417

Nearest Milepoint: SH 14, MP 66

Location: South of Joe Wright Reservoir

Surveyed Date: 6/14/2016

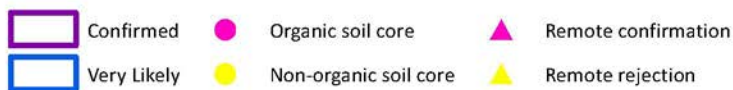
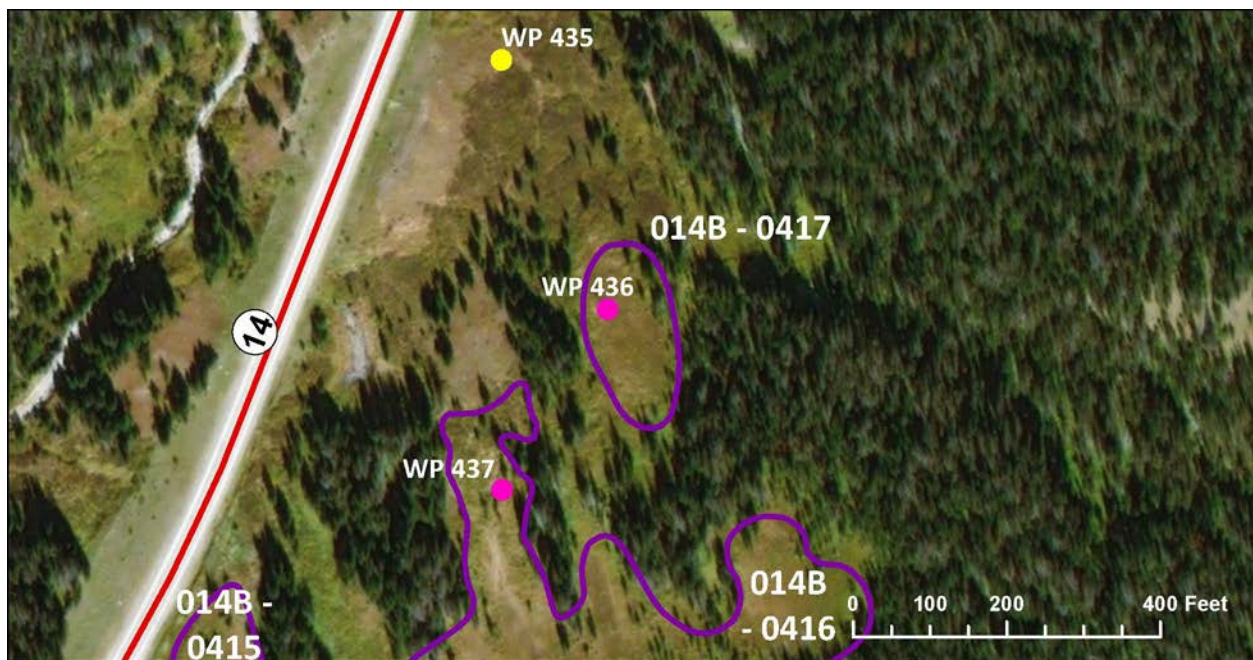
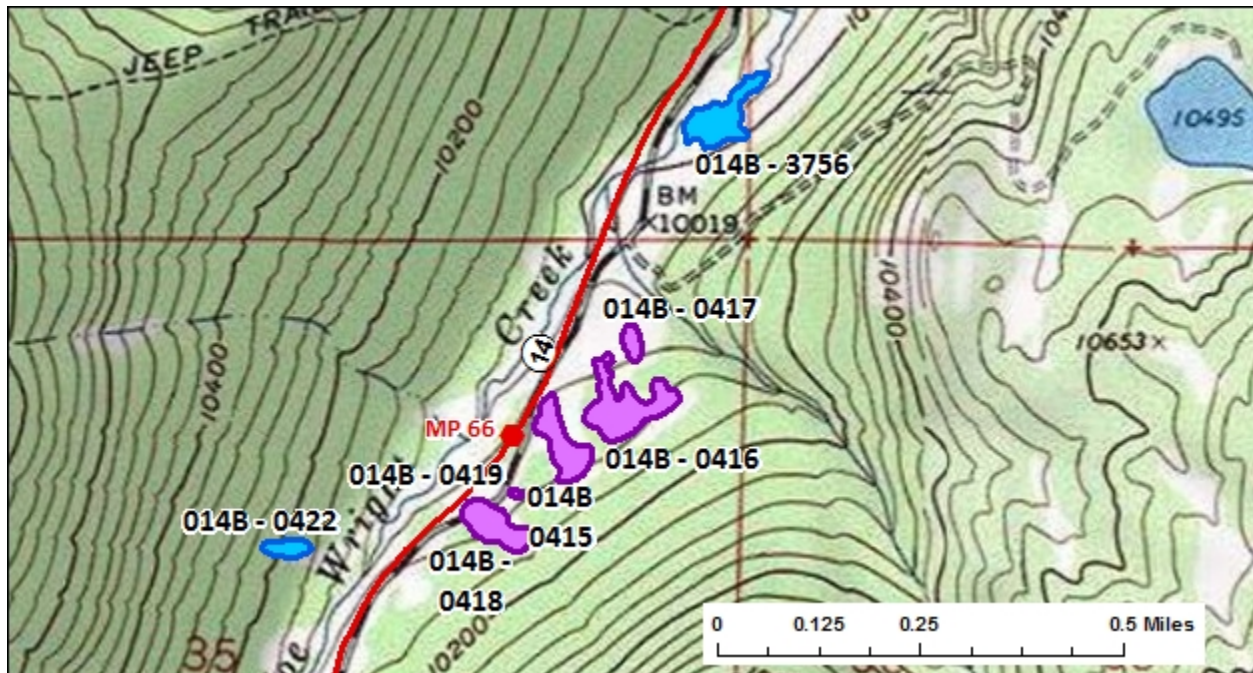
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,072 ft

Size: 0.52 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest



Description: Sloping, open fen dominated by *Eleocharis pauciflora*, with *Salix planifolia* along margins. Evidence of browse. Slope approximately 15%. Visited early in season.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	9	85
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
PIEN	<i>Picea engelmannii</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
PACKE	<i>Packera</i>	2	0.5

Fen Polygon: 014B - 0418

Nearest Milepoint: SH 14, MP 66

Location: South of Joe Wright Reservoir

Surveyed Date: 6/14/2016

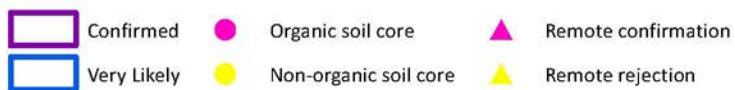
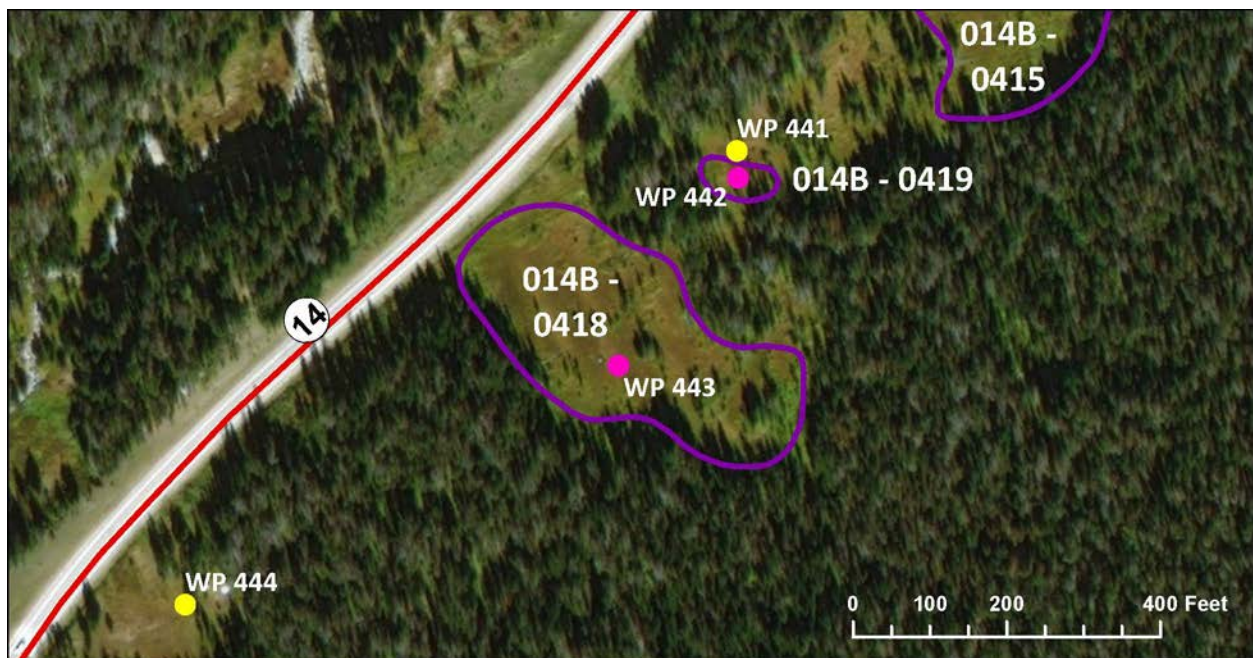
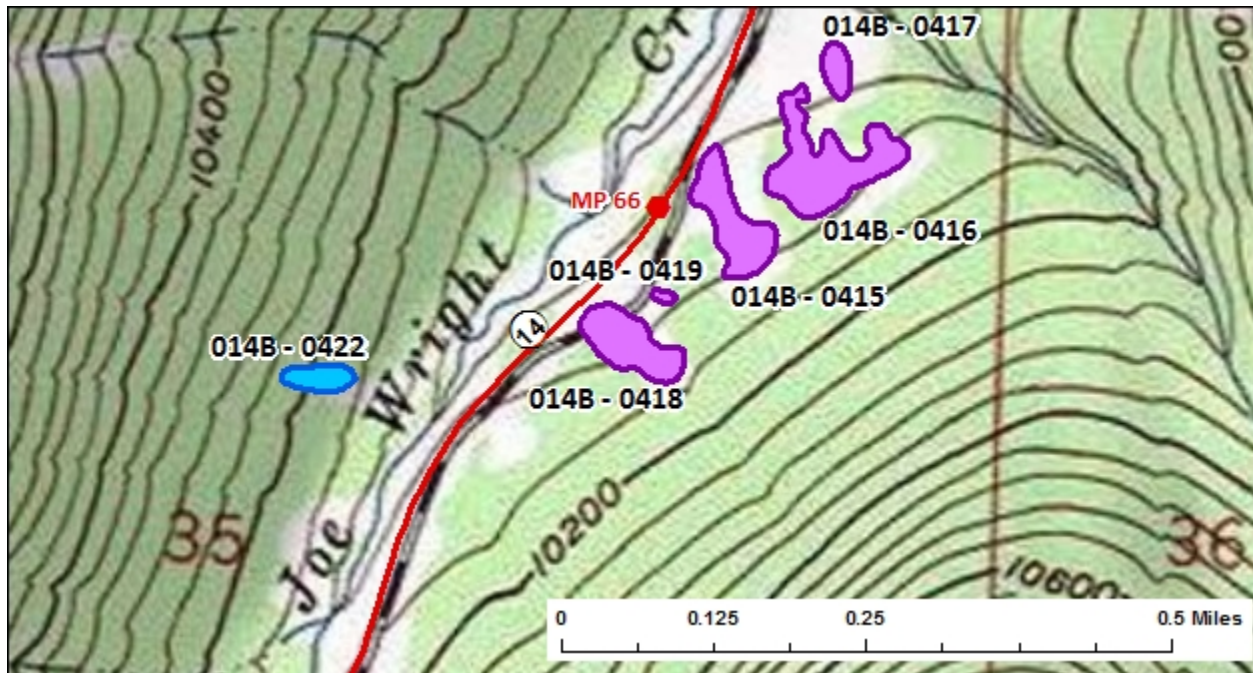
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,121 ft

Size: 1.94 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest



Description: Gently sloping fen. *Eleocharis* and Poaceae dominated. Extends towards highway, ending about 30 ft from the road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
ELQU2	<i>Eleocharis quinqueflora</i>	8	62.5
PEGR2	<i>Pedicularis groenlandica</i>	6	17.5
PIEN	<i>Picea engelmannii</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	4	3.5
ABBI3	<i>Abies bifolia</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5

Fen Polygon: 014B - 0419

Nearest Milepoint: SH 14, MP 66

Location: South of Joe Wright Reservoir

Surveyed Date: 6/14/2016

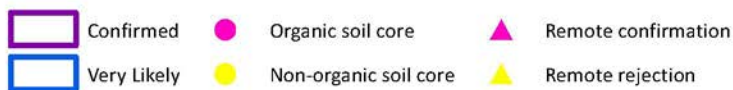
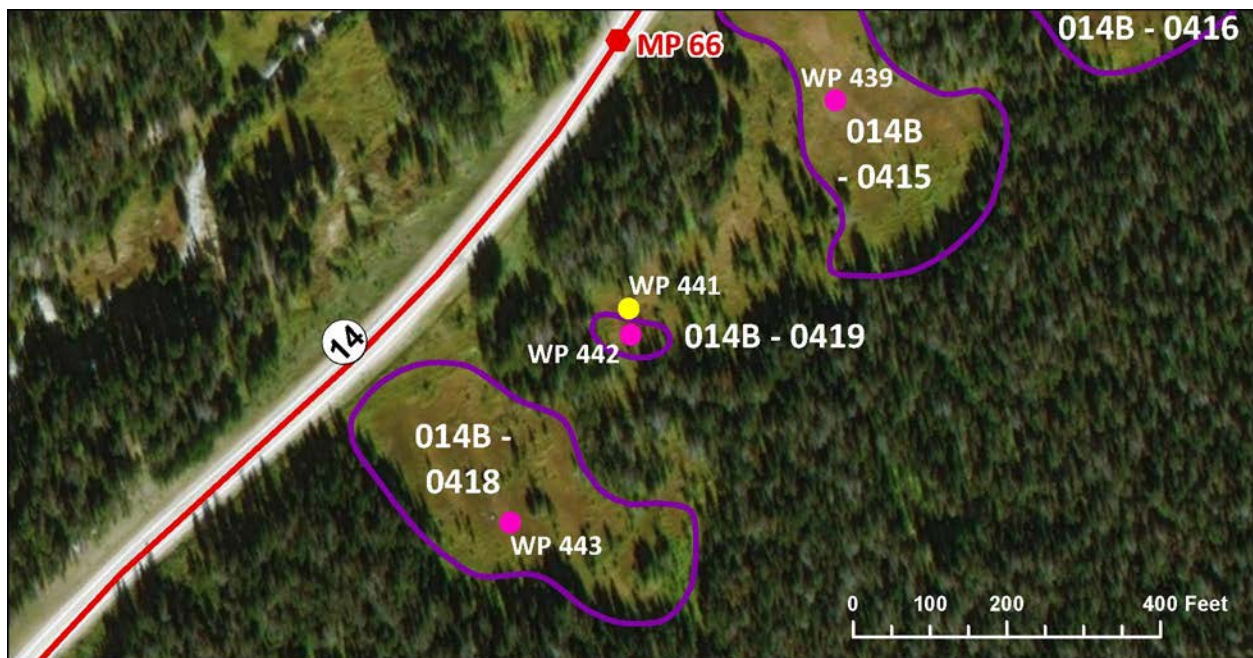
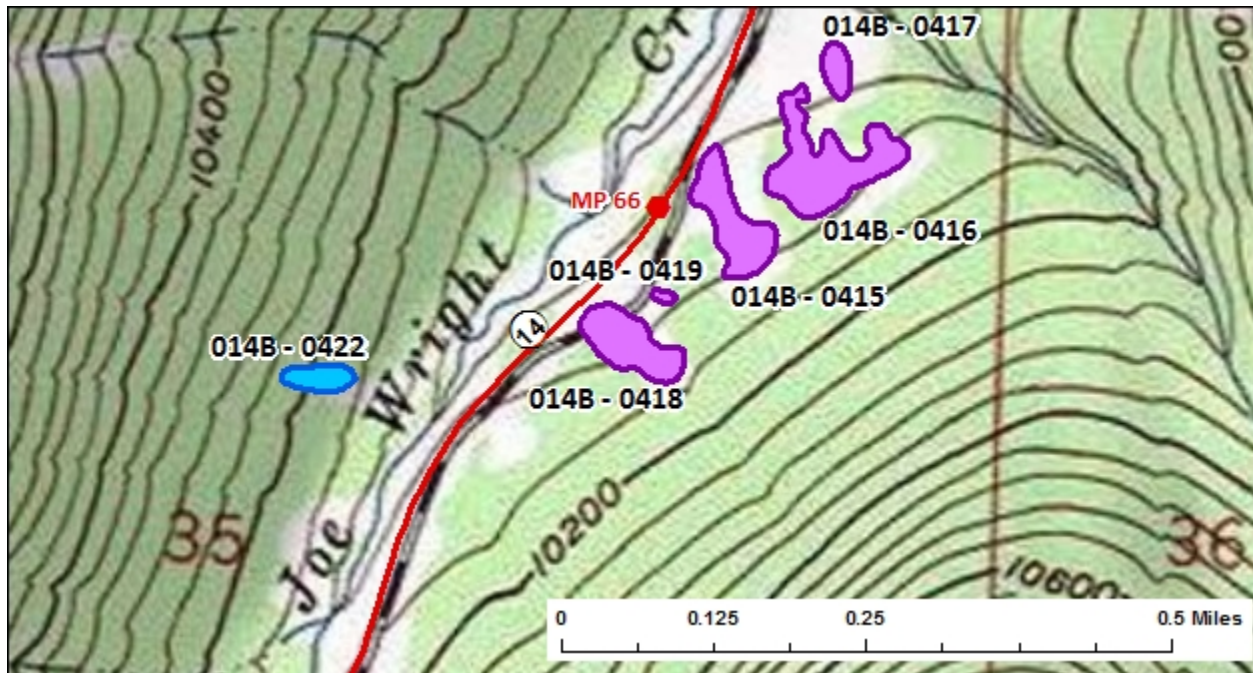
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,115 ft

Size: 0.09 acres

ROW Status: Public Easement

Primary Landowner: Roosevelt National Forest



Description: Sloping fen. Lower half dominated by *Eleocharis*. Upslope area with *Picea* and *Abies*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
ANEMO	<i>Anemone</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5

Fen Polygon: 017A - 0111

Nearest Milepoint: SH 17, MP 12

Location: Near La Manga Creek

Surveyed Date: 8/13/2016

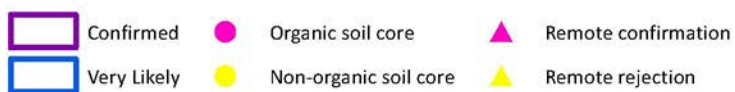
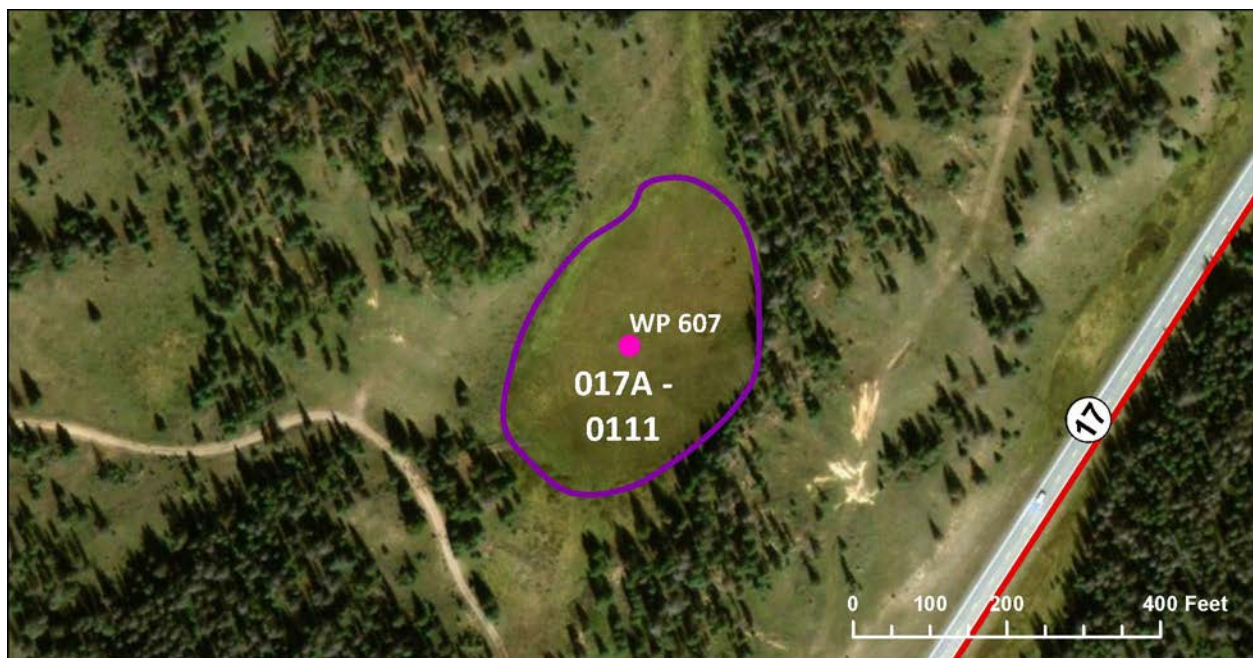
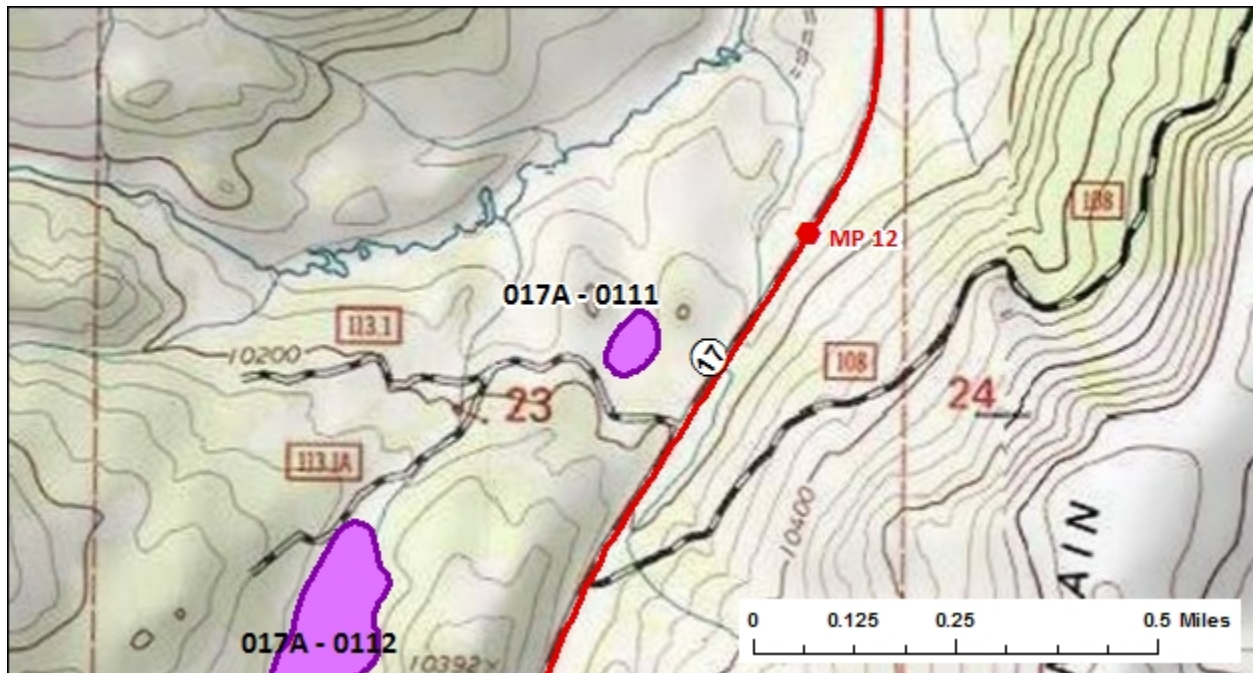
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,177 ft

Size: 2.23 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Large fen in depression surrounded by *Picea*. Evidence of cattle grazing.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CANO3	<i>Carex nova</i>	6	17.5
CAPR5	<i>Carex praegracilis</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
CACA11	<i>Carex canescens</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	4	3.5
CAEB	<i>Carex ebenea</i>	3	1.5
CALAM	<i>Calamagrostis</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
EPILO	<i>Epilobium</i>	1	0.1
GALIU	<i>Galium</i>	1	0.1
POGR9	<i>Potentilla gracilis</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1
VERON	<i>Veronica</i>	1	0.1

Fen Polygon: 017A - 0112

Nearest Milepoint: SH 17, MP 11

Location: Between USFS Road 113 and 114

Surveyed Date: 8/14/2016

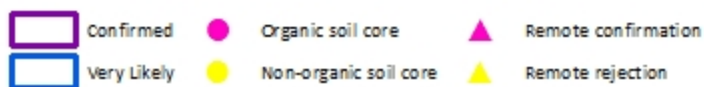
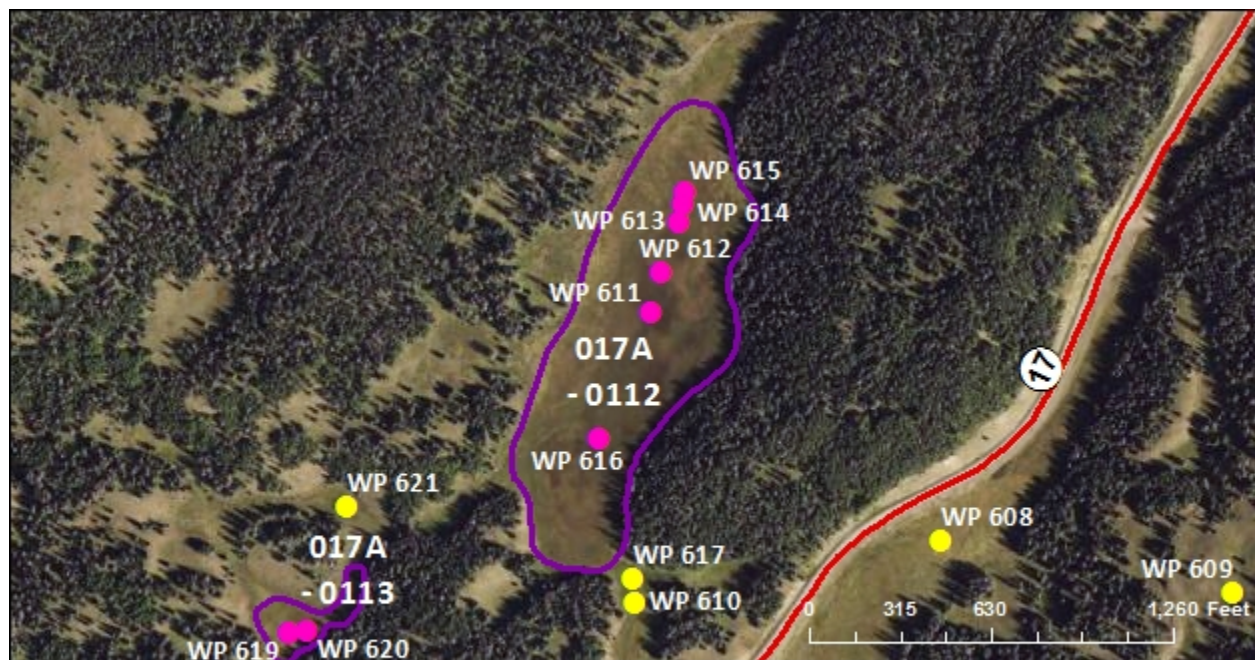
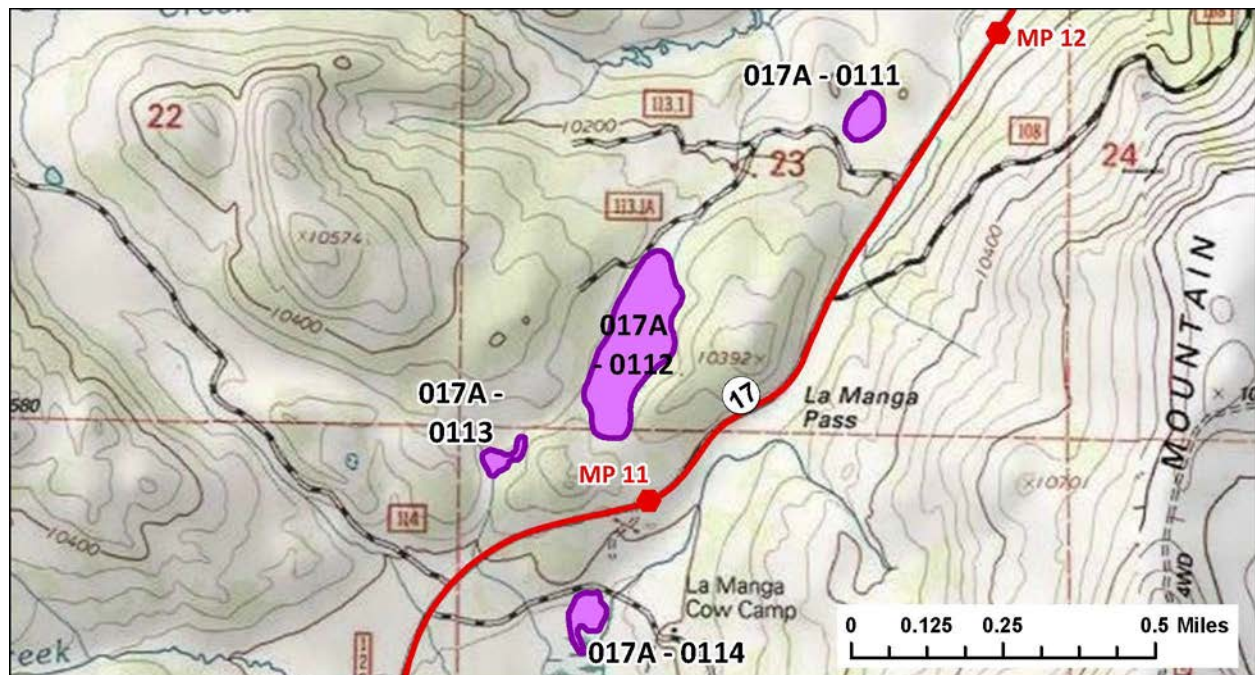
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,276 ft

Size: 16.55 acres

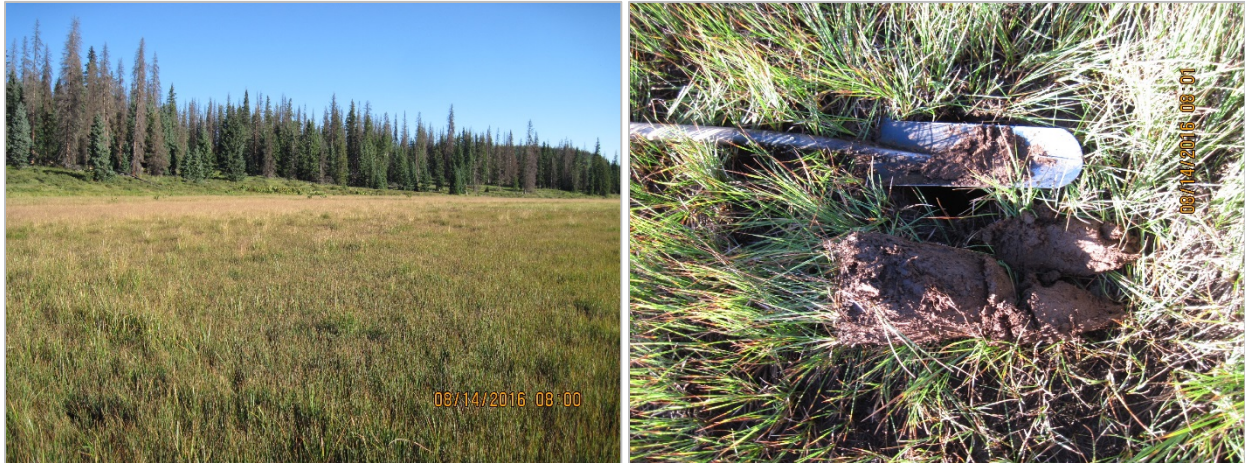
ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Large fen in depression surrounded by *Picea*. Evidence of cattle grazing.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
DECE	<i>Deschampsia cespitosa</i>	7	37.5
CACA11	<i>Carex canescens</i>	5	7.5
CAEB	<i>Carex ebenea</i>	4	3.5
ERAN6	<i>Eriophorum angustifolium</i>	4	3.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	4	3.5
POTEN	<i>Potentilla</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
ERIGE2	<i>Erigeron</i>	1	0.1
PEGR2	<i>Pedicularis groenlandica</i>	1	0.1
POA	<i>Poa</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 017A - 0113

Nearest Milepoint: SH 17, MP 11

Location: Between USFS Road 113 and 114

Surveyed Date: 8/14/2016

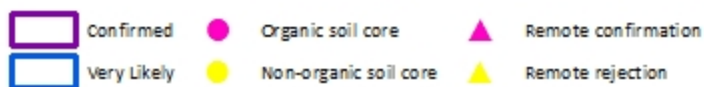
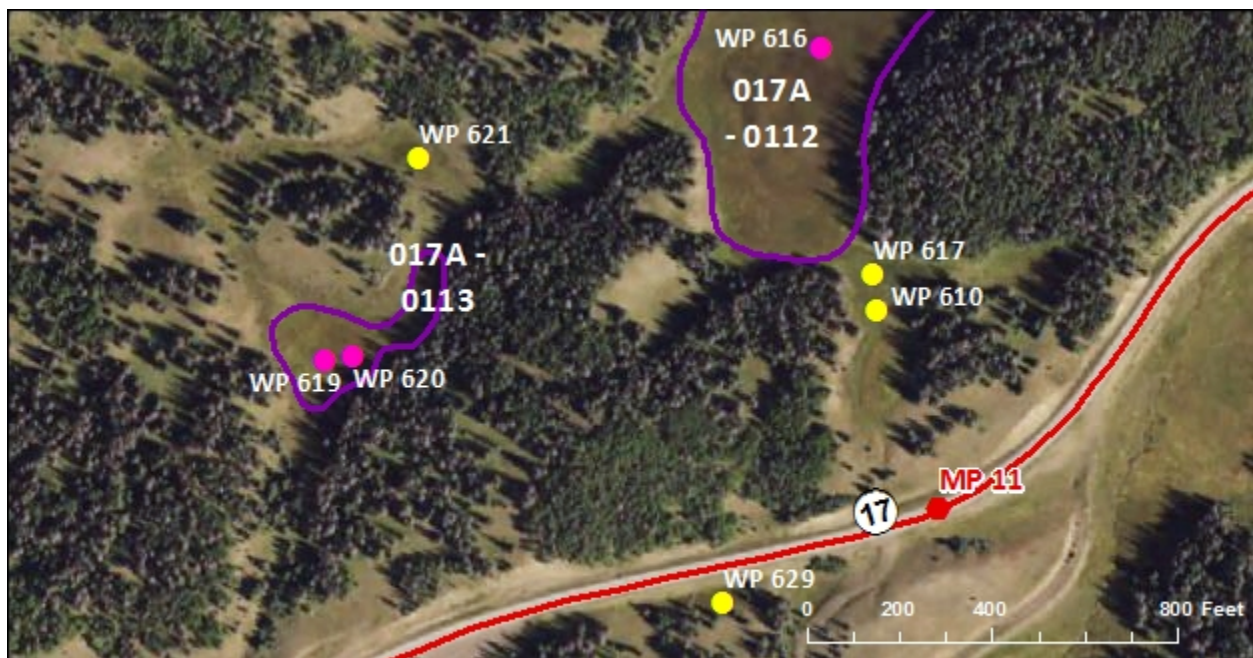
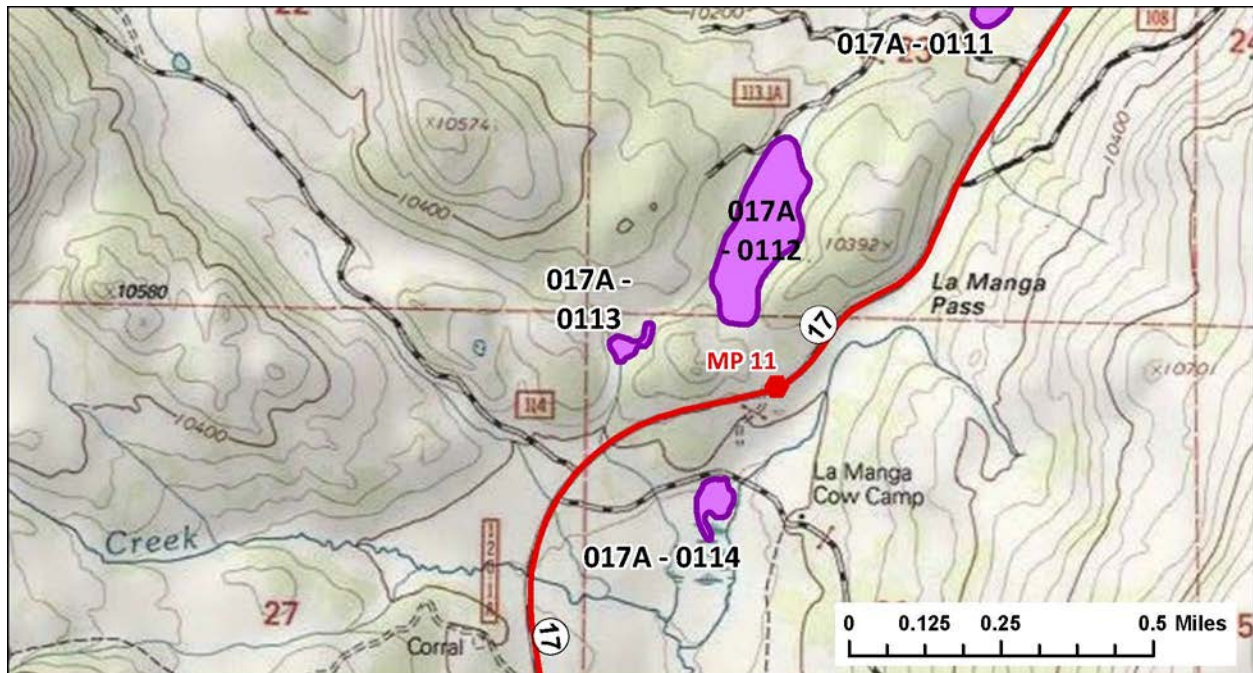
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,289 ft

Size: 1.20 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small fen in depression with *Picea* on edges. Up a small drainage from the highway.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
CAIL	<i>Carex illota</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	4	3.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>ater</i>	4	3.5
EPHO	<i>Epilobium hornemannii</i>	3	1.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
ALOPE	<i>Alopecurus</i>	2	0.5
CHRYSA	<i>Chrysanthemum</i>	1	0.1
ERIGE2	<i>Erigeron</i>	1	0.1
POGR9	<i>Potentilla gracilis</i>	1	0.1
PSLE	<i>Psychrophila leptosepala</i>	1	0.1
VERON	<i>Veronica</i>	1	0.1

Fen Polygon: 017A - 0114

Nearest Milepoint: SH 17, MP 11

Location: Adjacent to the North Fork Rio de Los Pinos

Surveyed Date: 8/14/2016

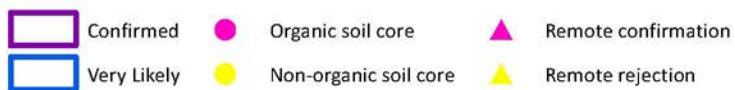
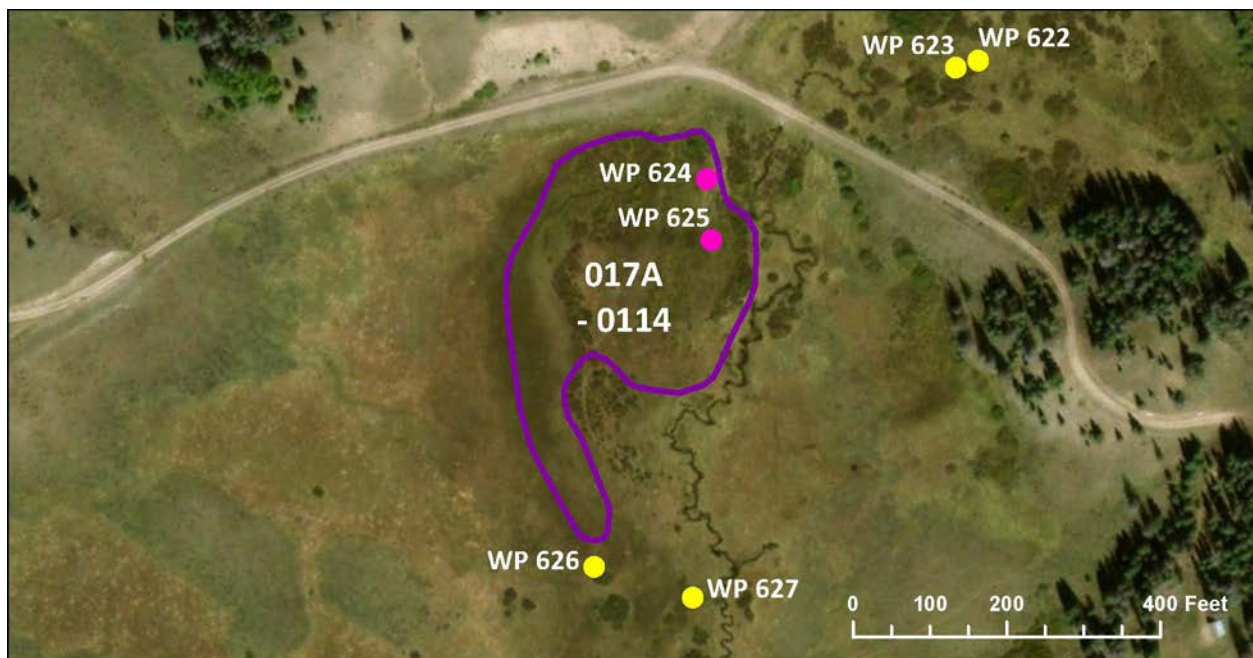
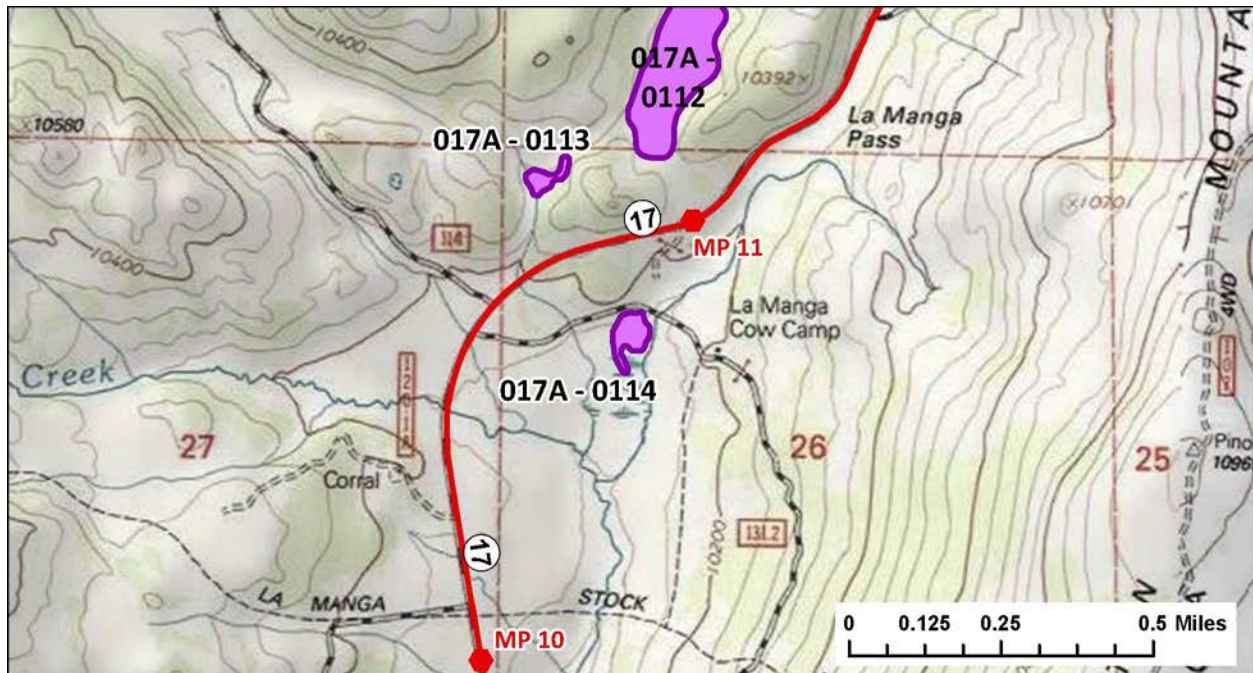
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,161 ft

Size: 2.26 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Large polygon was surveyed, but only a portion of the area had 40 cm peat accumulation.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
CAIL	<i>Carex illota</i>	6	17.5
ELEOC	<i>Eleocharis</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PNPA	<i>Pneumonanthe parryi</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5
MUFI2	<i>Muhlenbergia filiformis</i>	1	0.1

Fen Polygon: 017A - 0122

Nearest Milepoint: SH 17, MP 7

Location: Along State Highway 17

Surveyed Date: 8/14/2016

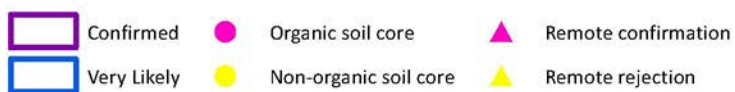
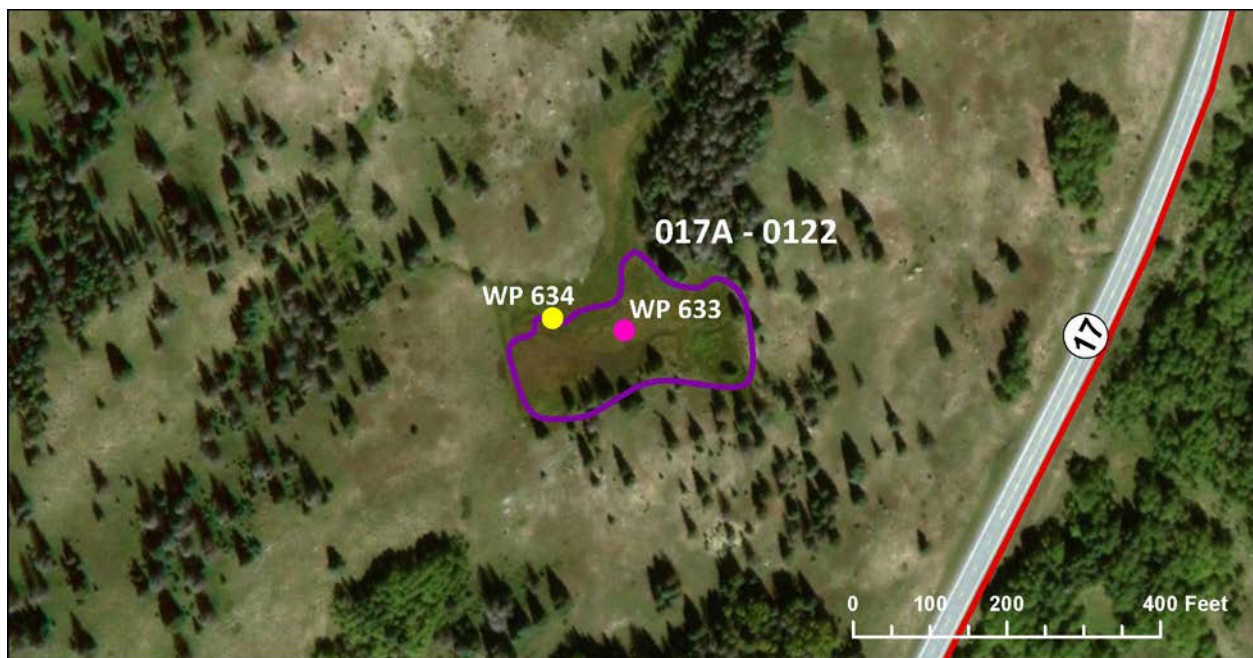
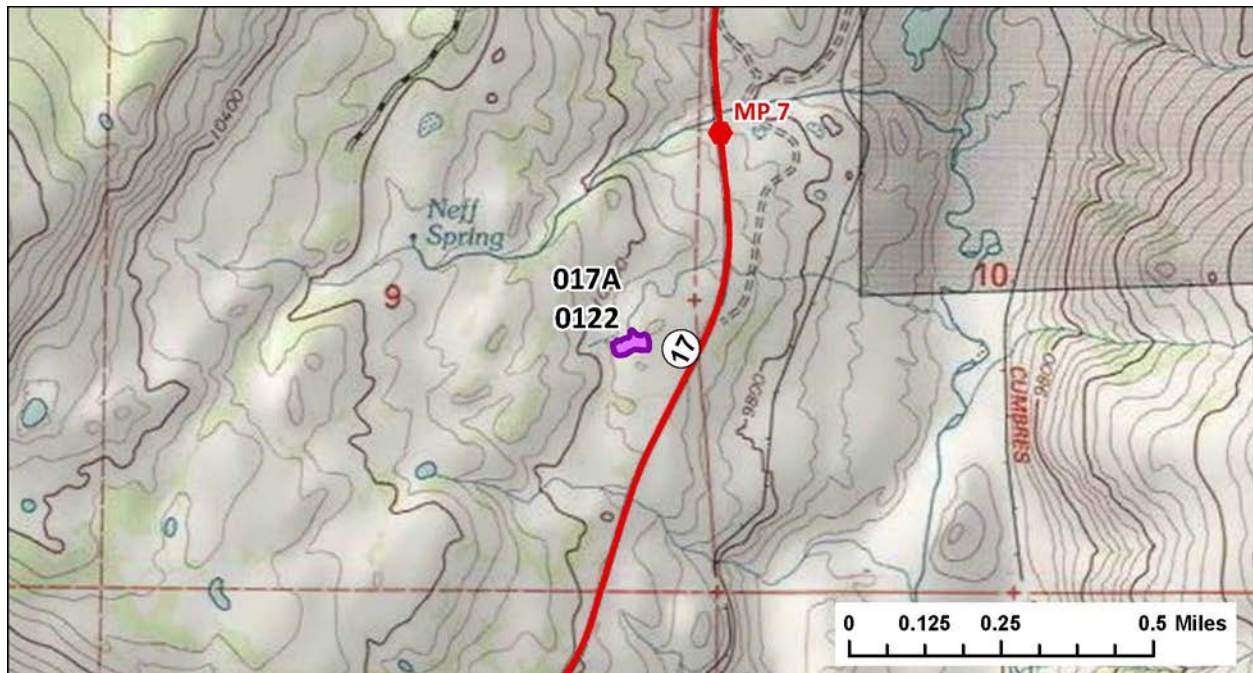
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,961 ft

Size: 0.93 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Depressional fen, surrounded by *Picea*. Evidence of grazing. Dominated by *Carex* species.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAEB	<i>Carex ebenea</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
EPILO	<i>Epilobium</i>	5	7.5
JULO	<i>Juncus longistylis</i>	5	7.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
MUFI2	<i>Muhlenbergia filiformis</i>	2	0.5
F-GENTI	<i>Gentianaceae</i>	1	0.1

Fen Polygon: 017A - 0124

Nearest Milepoint: SH 17, MP 4

Location: Cumbres Pass

Surveyed Date: 8/13/2016

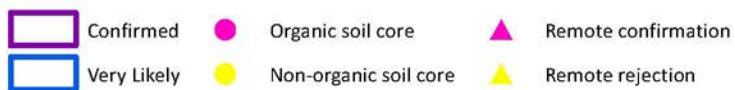
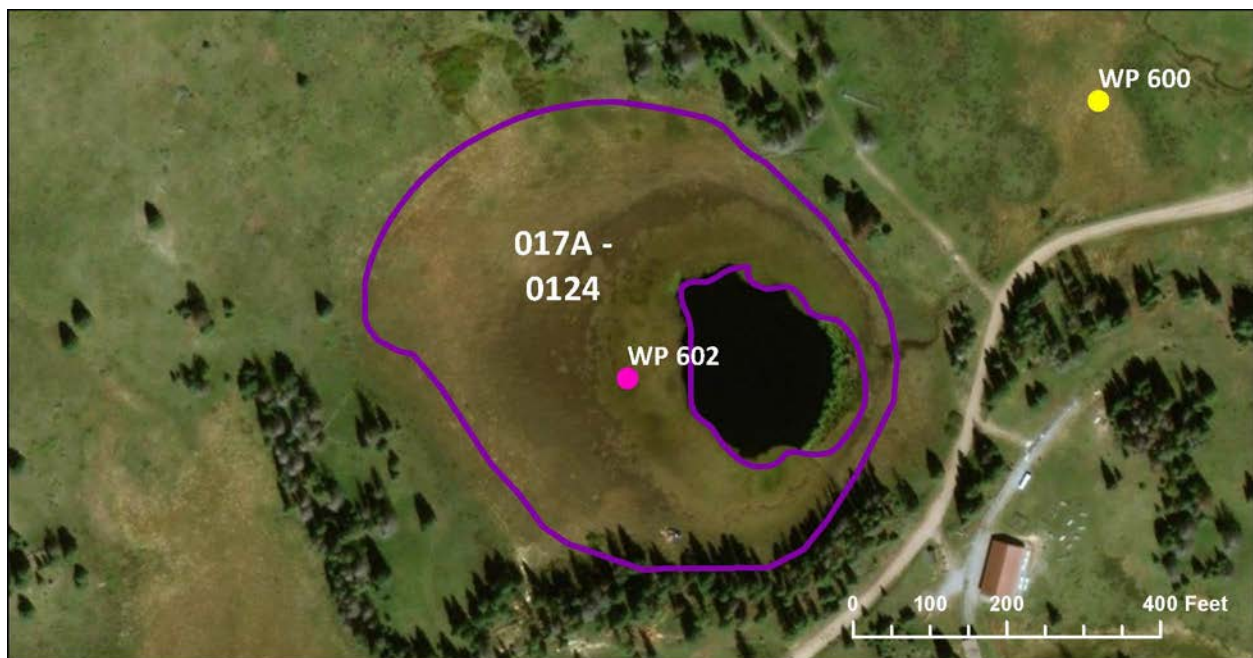
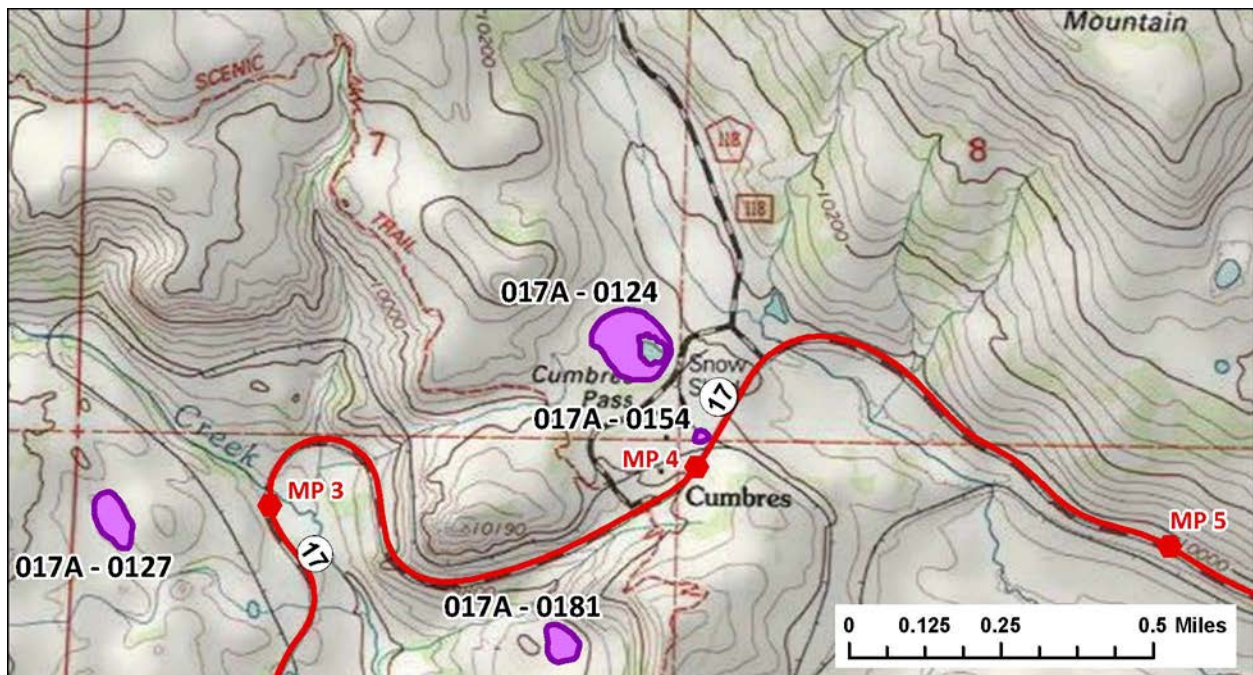
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,039 ft

Size: 5.93 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Beautiful fen wrapping entirely around a small pond. Dominated by *Carex utriculata* with moss understory.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
COPA28	<i>Comarum palustre</i>	8	62.5
CACA4	<i>Calamagrostis canadensis</i>	4	3.5
METR3	<i>Menyanthes trifoliata</i>	4	3.5
CAAQ	<i>Carex aquatilis</i>	3	1.5
CAREX	<i>Carex</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
CAMAI2	<i>Carex magellanica ssp. irrigua</i>	2	0.5
F-GENTI	<i>Gentianaceae</i>	1	0.1
PHCO9	<i>Phleum commutatum</i>	1	0.1
SPRO	<i>Spiranthes romanzoffiana</i>	1	0.1
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	1	0.1

Fen Polygon: 017A - 0127

Nearest Milepoint: SH 17, MP 3

Location: Cumbres Pass, near Wolf Creek

Surveyed Date: 8/13/2016

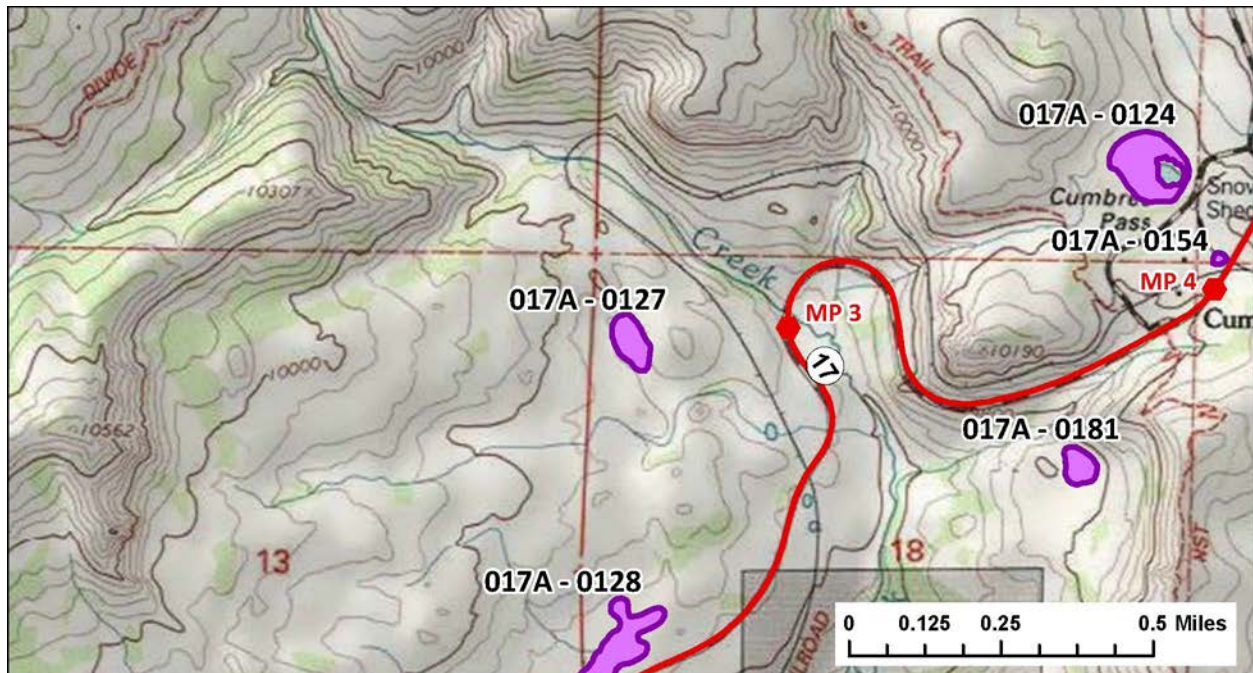
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,724 ft

Size: 2.47 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



- | | | |
|-------------|-----------------------|---------------------|
| Confirmed | Organic soil core | Remote confirmation |
| Very Likely | Non-organic soil core | Remote rejection |



Description: Fen located in depression with spruce and aspen on edges. Up steep slope from road. Area heavily grazed, especially *Salix*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
CACA11	<i>Carex canescens</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
VETE4	<i>Veratrum tenuipetalum</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
F-GENTI	<i>Gentianaceae</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	2	0.5
JUAC	<i>Juncus acuminatus</i>	2	0.5
CAIL	<i>Carex illota</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
JULO	<i>Juncus longistylis</i>	1	0.1
SPRO	<i>Spiranthes romanzoffiana</i>	1	0.1

Fen Polygon: 017A - 0128

Nearest Milepoint: SH 17, MP 2

Location: Along Colorado State Highway 17

Surveyed Date: 8/13/2016

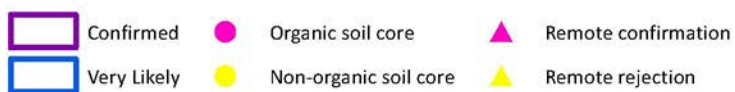
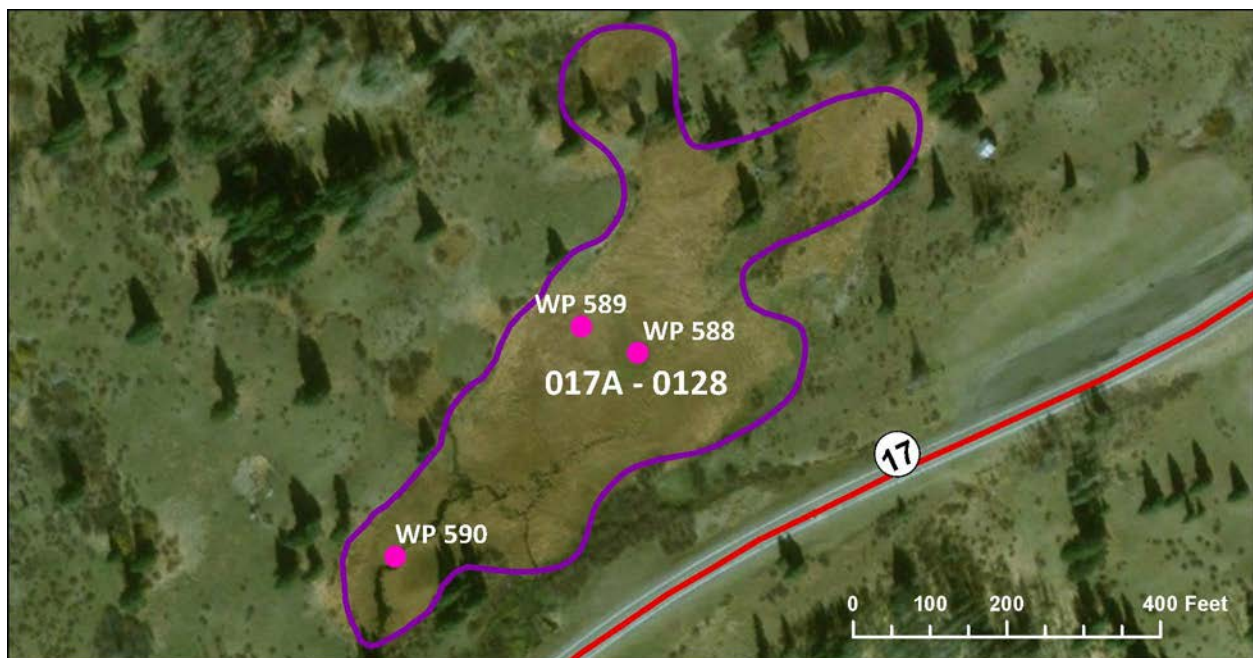
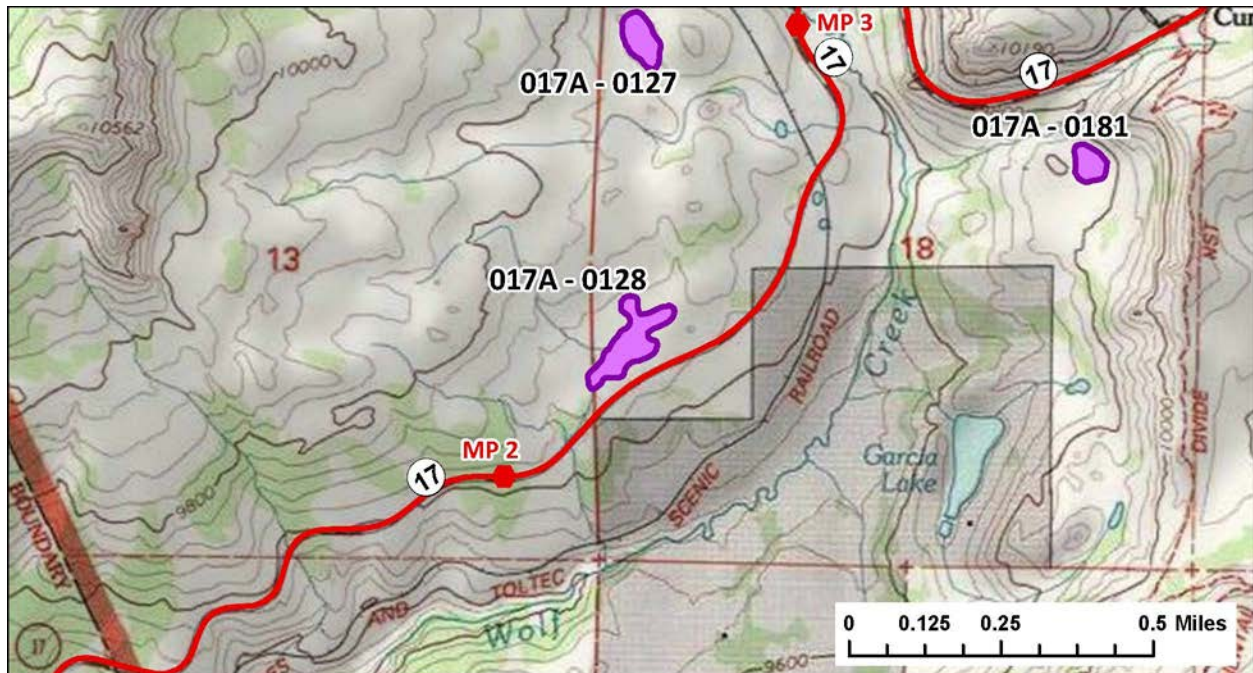
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,672 ft

Size: 5.12 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Large, very diverse fen, in depression at base of slope with aspen and spruce. Some signs of cattle grazing.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
COPA28	<i>Comarum palustre</i>	8	62.5
MUFI2	<i>Muhlenbergia filiformis</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
CAMAI2	<i>Carex magellanica ssp. irrigua</i>	3	1.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
TRIFO	<i>Trifolium</i>	3	1.5
VETE4	<i>Veratrum tenuipetalum</i>	3	1.5
ERIGE2	<i>Erigeron</i>	2	0.5
POA	<i>Poa</i>	2	0.5
CAAU3	<i>Carex aurea</i>	1	0.1
CAEB	<i>Carex ebenea</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
PNPA	<i>Pneumonanthe parryi</i>	1	0.1

Fen Polygon: 017A - 0130

Nearest Milepoint: SH 17, MP 6

Location: Near USFS Rd 117 and the Cumbres and Toltec Scenic Railroad

Surveyed Date: 8/13/2016

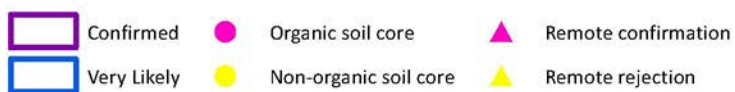
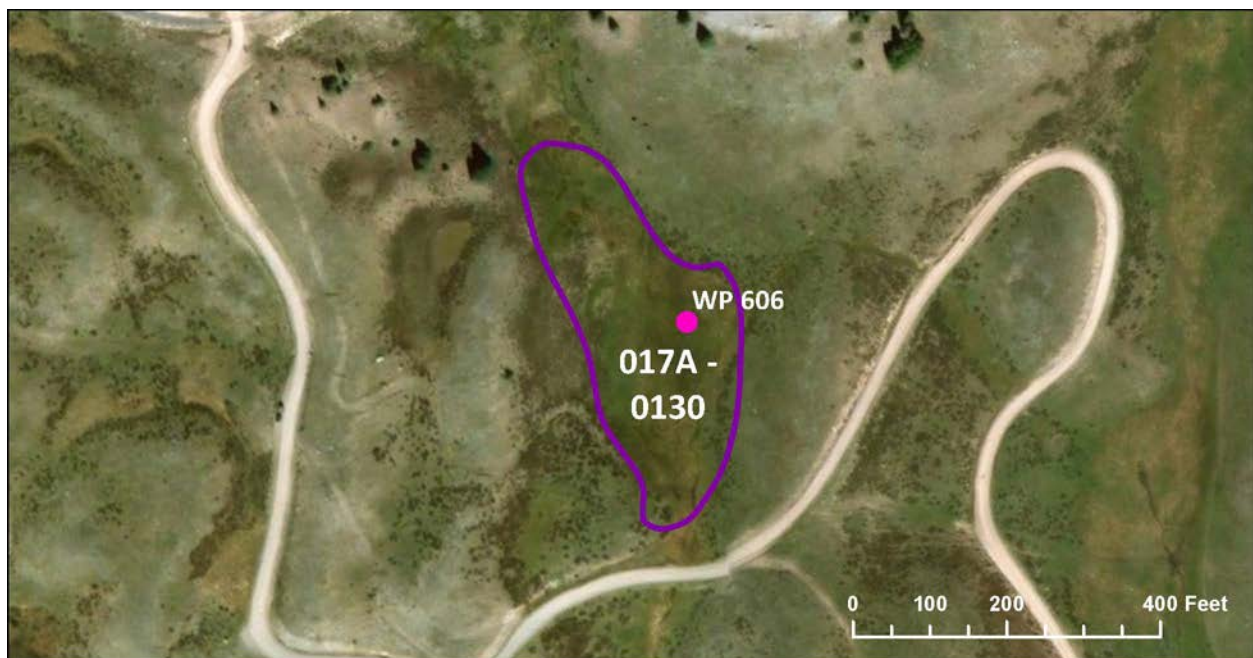
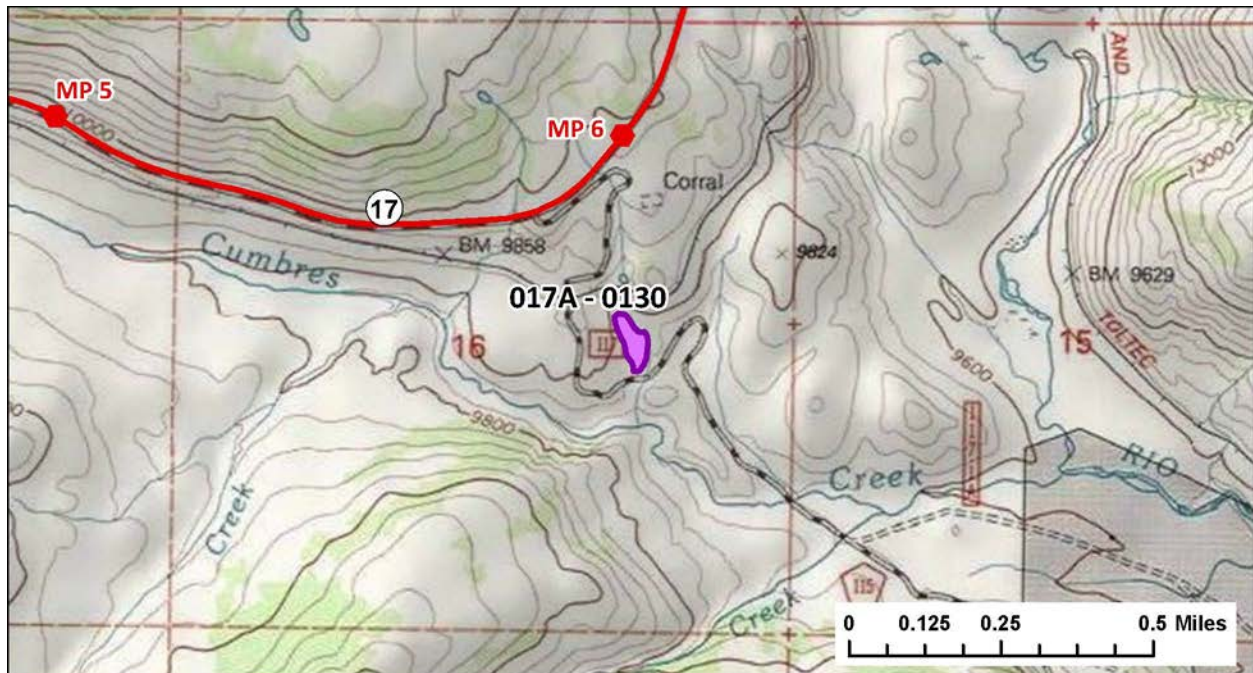
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,797 ft

Size: 1.79 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small fen at bottom of slope. Dominated by *Carex* species. Evidence of grazing. Used for snowmobiling in winter.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	4	3.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
CACA12	<i>Carex capillaris</i>	2	0.5
CACA4	<i>Calamagrostis canadensis</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>ater</i>	2	0.5
JULO	<i>Juncus longistylis</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
PHPR3	<i>Phleum pratense</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 017A - 0154

Nearest Milepoint: SH 17, MP 4

Location: Crossing of State Hwy 17 and Cumbres and Toltec Scenic Railroad **Surveyed Date:** 8/13/2016

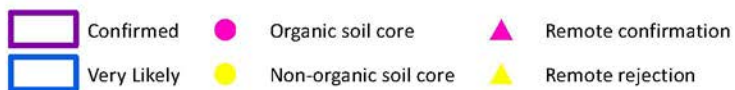
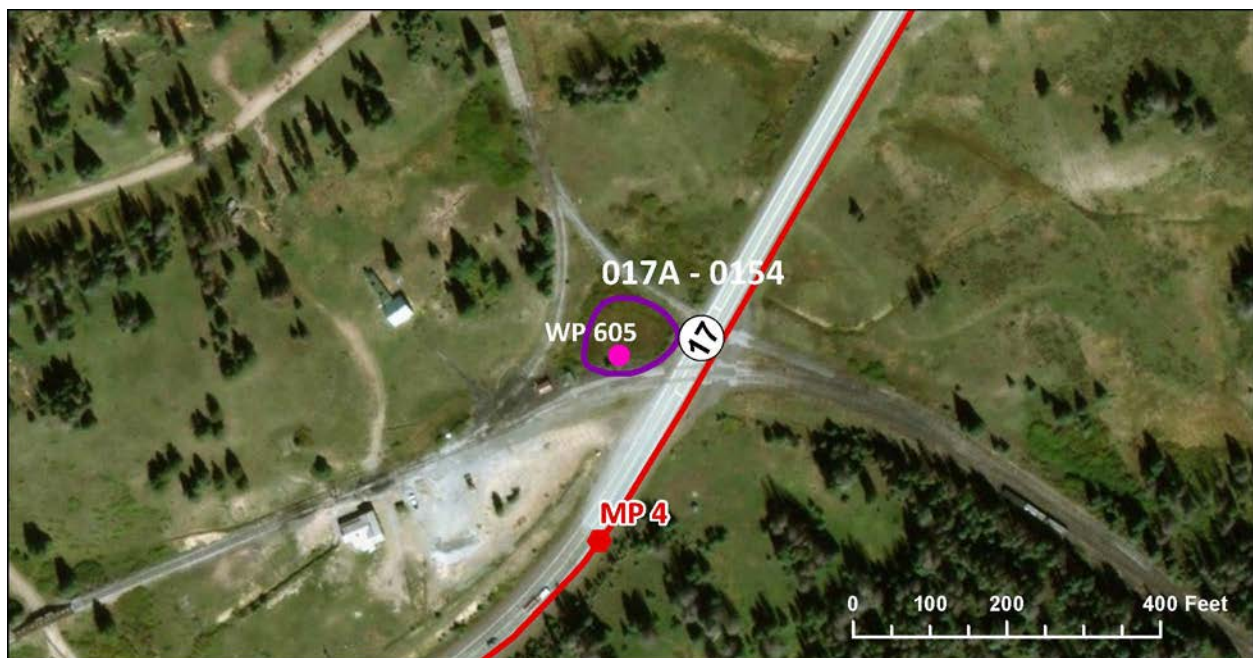
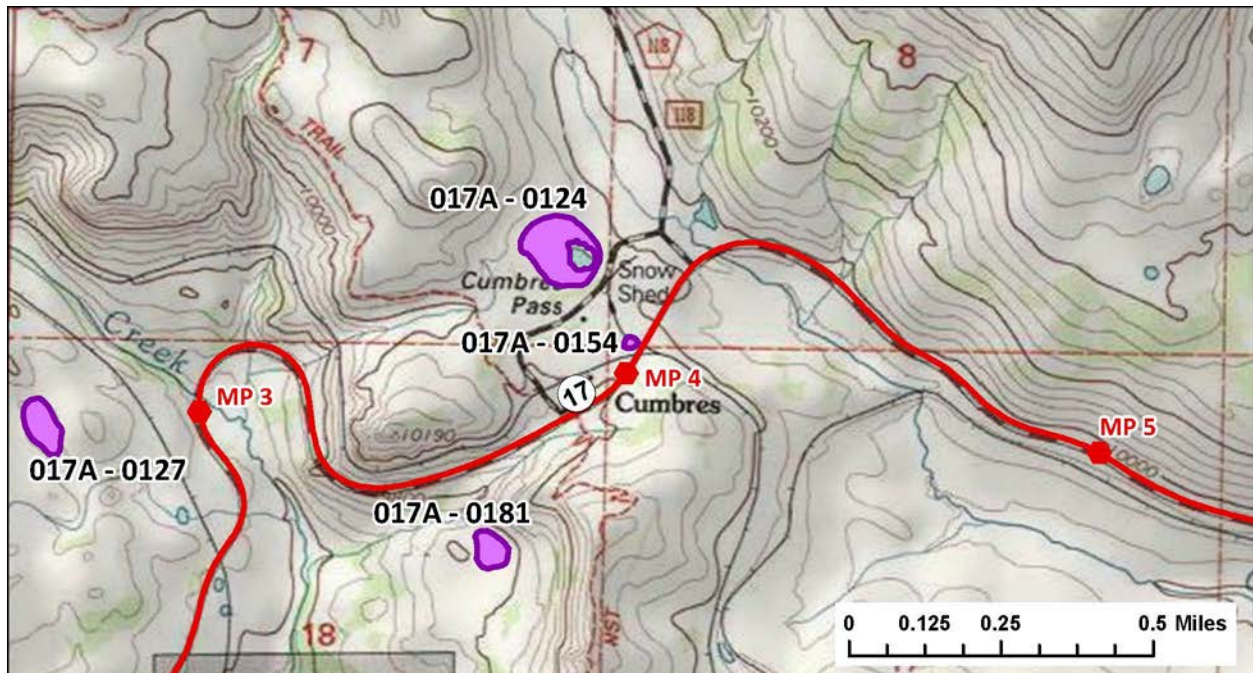
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,016 ft

Size: 0.21 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small, very wet floating mat fen bounded by train tracks.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CACA11	<i>Carex canescens</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5

Fen Polygon: 017A - 0181

Nearest Milepoint: SH 17, MP 4

Location: Between State Highway 17 and Los Caminos Antiguos

Surveyed Date: 8/13/2016

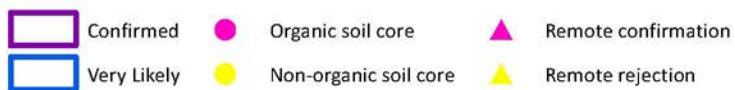
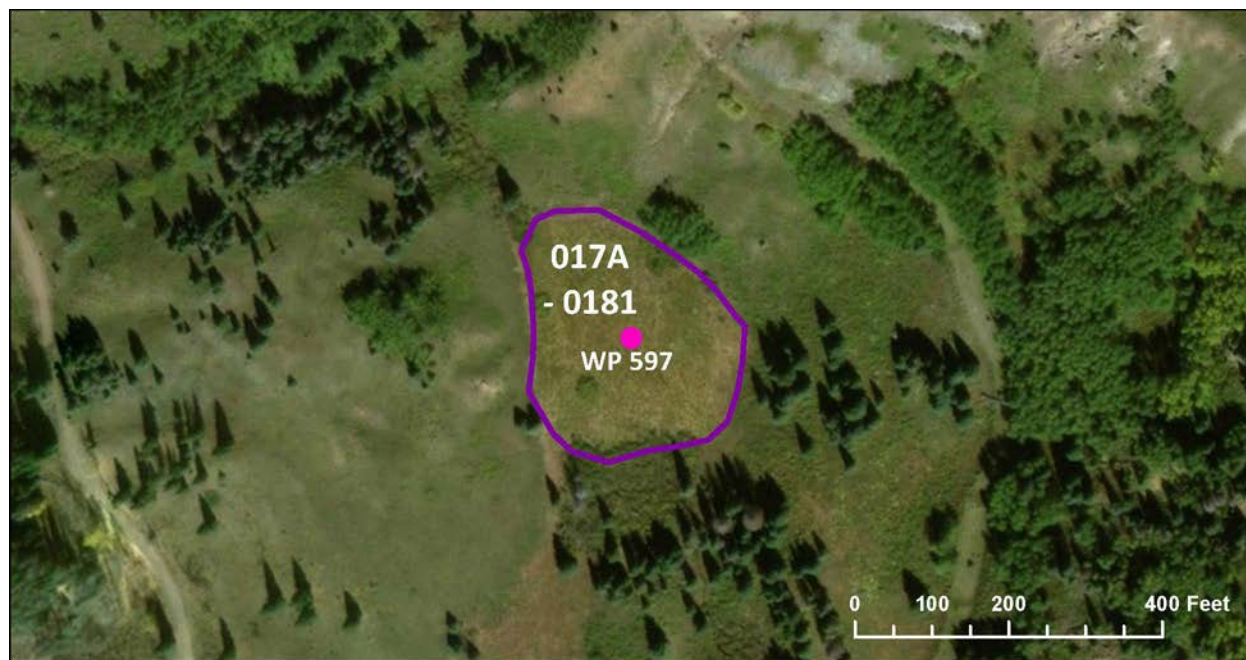
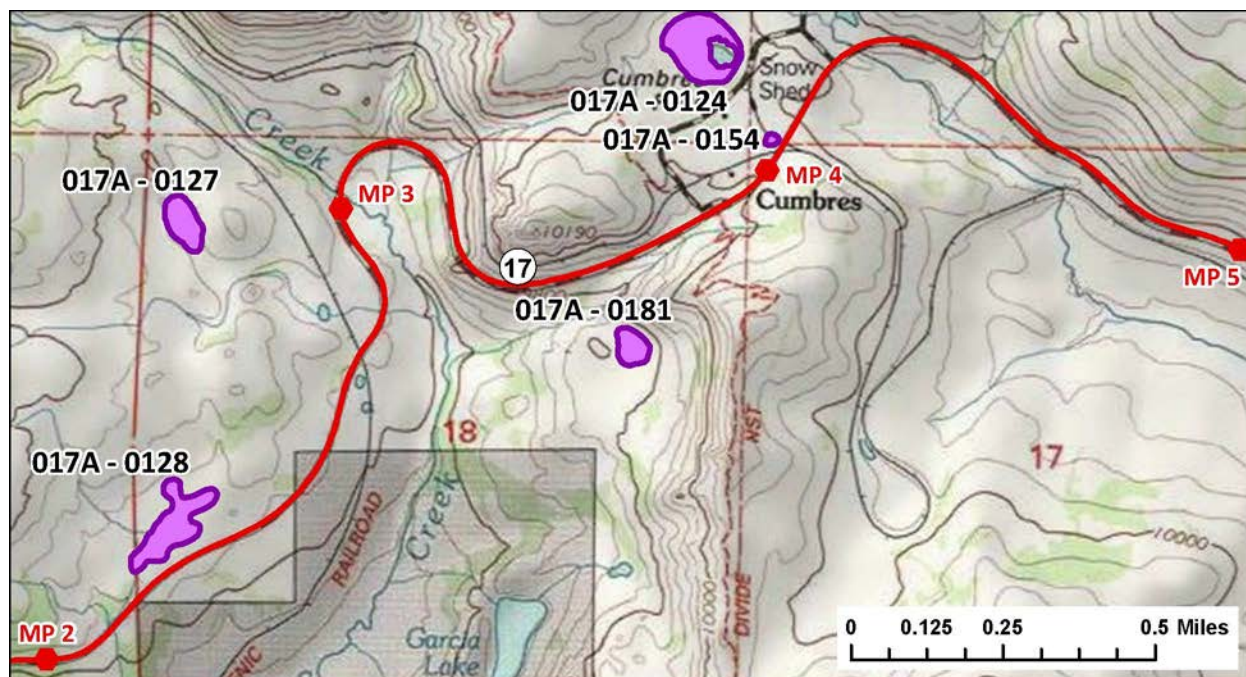
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,780 ft

Size: 1.64 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small fen wetland in depression. Aspen and spruce on edges. Dominated by *Carex utriculata* and *Calamagrostis canadensis*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	1	0.1

Fen Polygon: 024A - 2917

Nearest Milepoint: U.S. 24, MP 164

Location: Piney Gulch, near Tennessee Pass

Surveyed Date: 8/12/2017

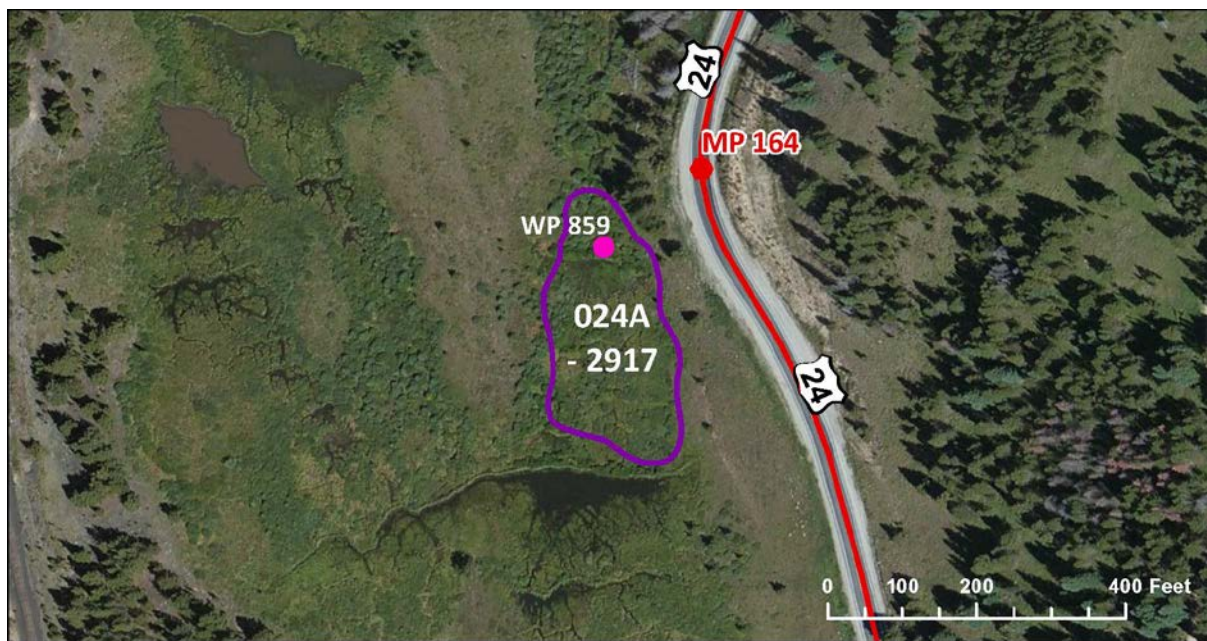
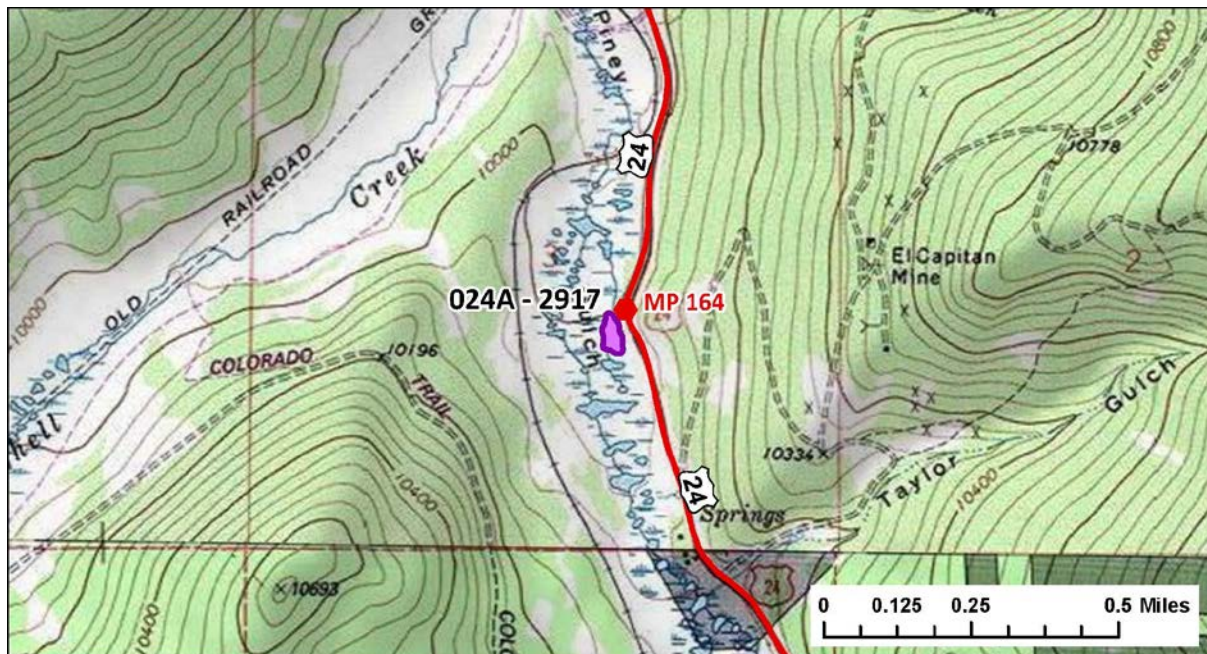
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,010 ft

Size: 1.12 acres

ROW Status: Public Easement/ROW

Primary Landowner: Polygon half on White River National Forest, half on land owned by Eagle Valley Land Trust



- | | | | | | |
|---|-------------|---|-----------------------|---|---------------------|
|  | Confirmed |  | Organic soil core |  | Remote confirmation |
|  | Very Likely |  | Non-organic soil core |  | Remote rejection |



Description: Site extends into private property that is about 20 m from the road. It is part of a large system of ponds and standing water. Dominated by large *Salix planifolia*, with *Carex utriculata* and *C. aquatilis*. Water table is at 0 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	7	37.5
CAUT	<i>Carex utriculata</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
F-BRASS	<i>Brassicaceae</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
EQAR	<i>Equisetum arvense</i>	3	1.5
JUAR4	<i>Juncus articulatus</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
RUMEX	<i>Rumex</i>	3	1.5
SPEU	<i>Sparganium eurycarpum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
IRMI	<i>Iris missouriensis</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
SYMPH	<i>Symphoricarpos</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
GATRS2	<i>Galium trifidum ssp. Subbiflorum</i>	1	0.1
POA	<i>Poa</i>	1	0.1
POTAM	<i>Potamogeton</i>	1	0.1

Fen Polygon: 024A - 3089

Nearest Milepoint: U.S. 24, MP 235

Location: Near the South Fork South Platte River

Surveyed Date: 6/7/2017

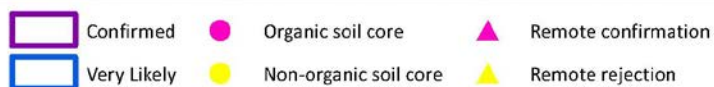
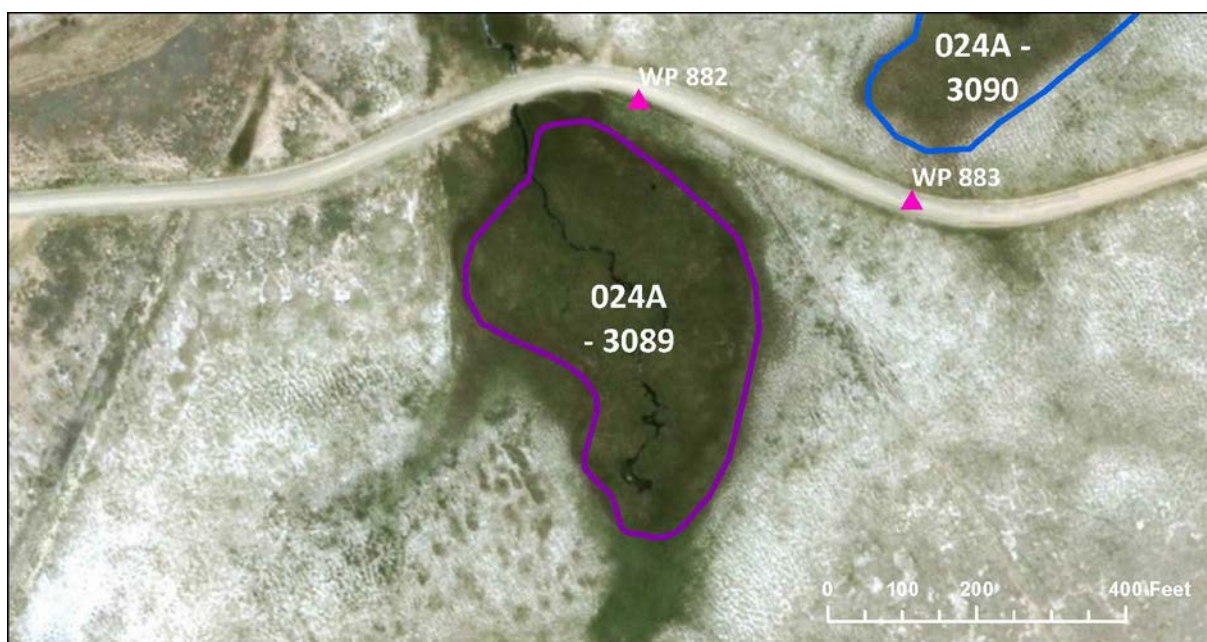
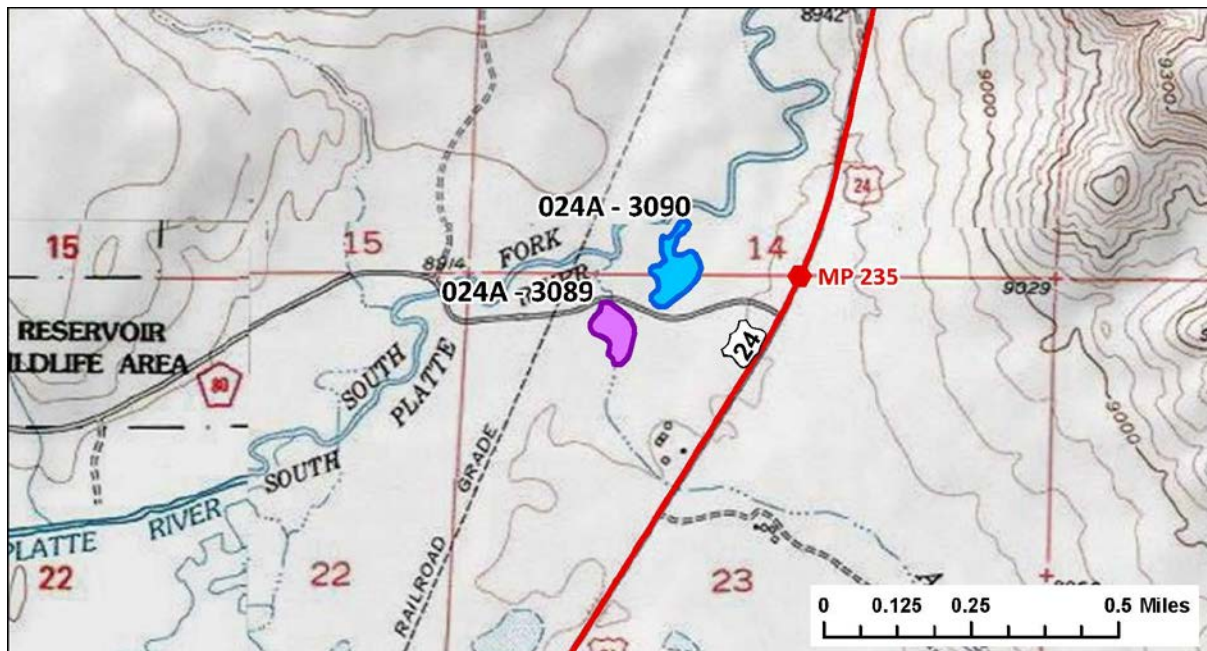
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 8,917 ft

Size: 3.03 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Denver Water Board



Description: Polygon viewed from highway. Small seep fen feeding into the South Fork South Platte River near Antero Reservoir. Known fen from previous survey (Johnson & Gerhardt 2002).

Site Photo



Fen Polygon: 024A - 3151

Nearest Milepoint: U.S. 24, MP 184

Location: Near the South Fork South Platte River

Surveyed Date: 8/12/2017

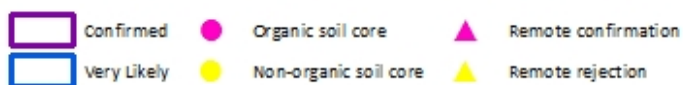
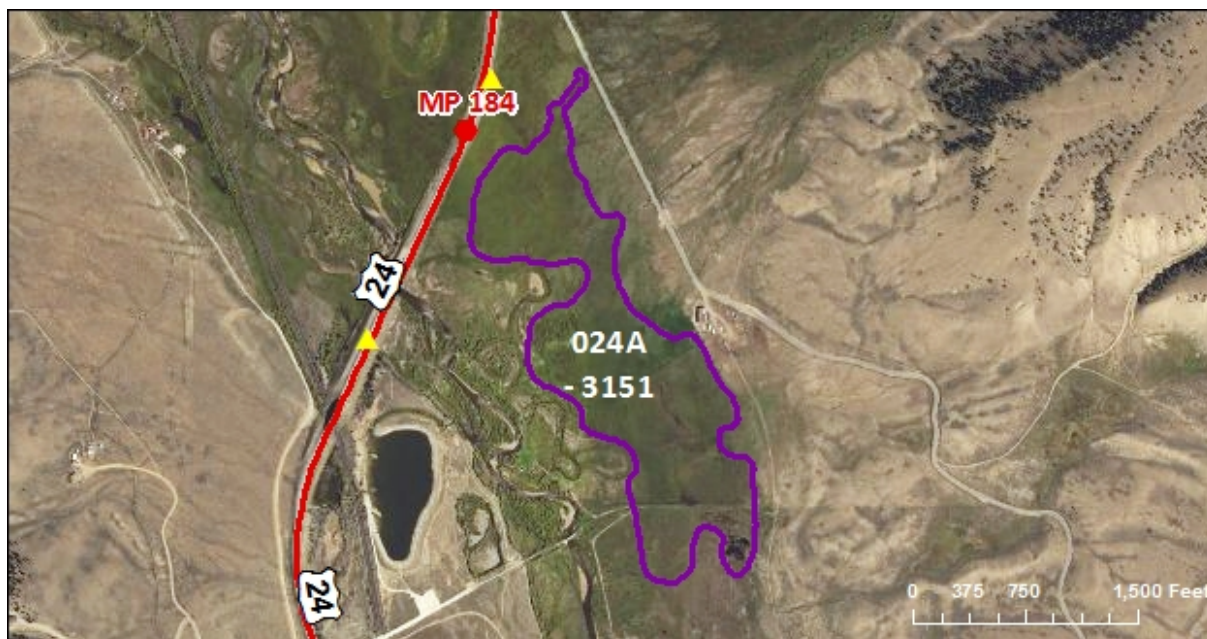
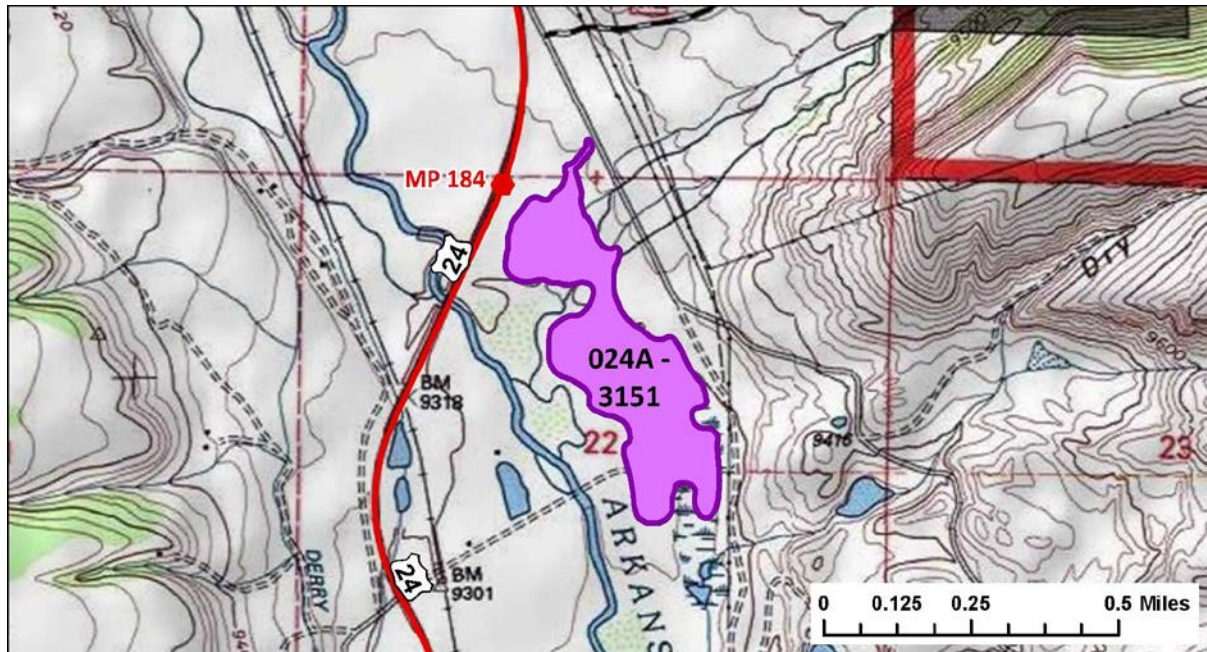
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 9,327 ft

Size: 52.87 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Colorado Parks and Wildlife State Habitat Area



Description: Polygon viewed from the highway. Polygon was identified as a fen in previous survey (Denise, C. and G. Smith, in progress). There is contiguous wetland within the ROW.

Site Photo



Fen Polygon: 024A - 3246

Nearest Milepoint: U.S. 24, MP 275

Location: West of Divide, CO

Surveyed Date: 6/8/2017

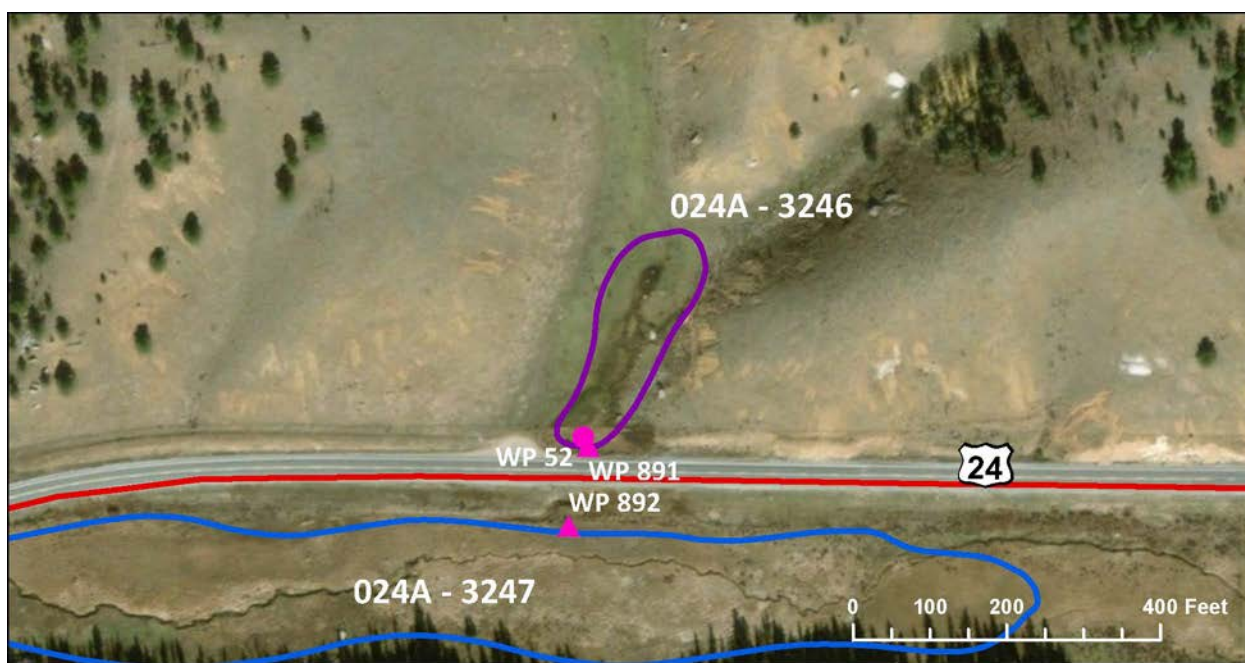
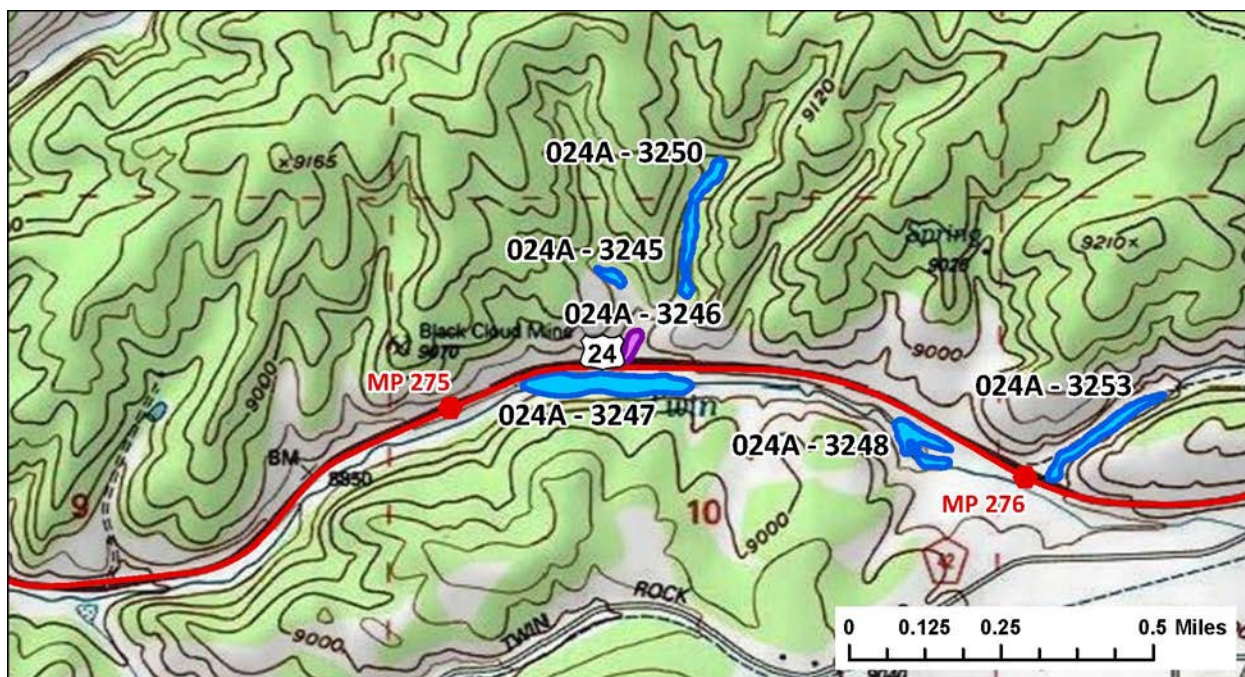
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 8,927 ft

Size: 0.62 acres

ROW Status: Within ROW

Primary Landowner: Private Property



- | | | |
|--|---|--|
| Confirmed | ● Organic soil core | ▲ Remote confirmation |
| Very Likely | ● Non-organic soil core | ▲ Remote rejection |



Description: Fen extends into highway ROW. Organic soil exceeds 60 cm. No species list collected.

Site Photos



Fen Polygon: 024A - 3777

Nearest Milepoint: U.S. 24, MP 163

Location: Adjacent to Mitchell Creek

Surveyed Date: 8/12/2017

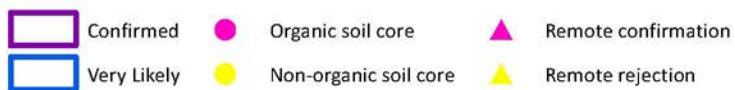
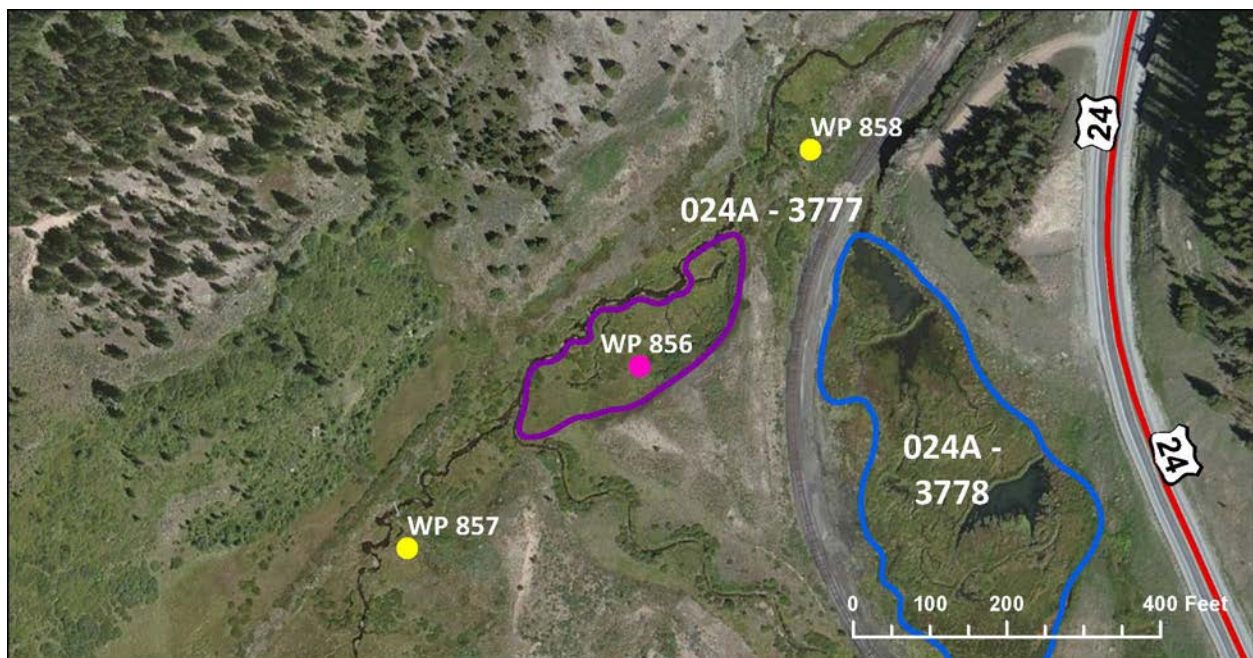
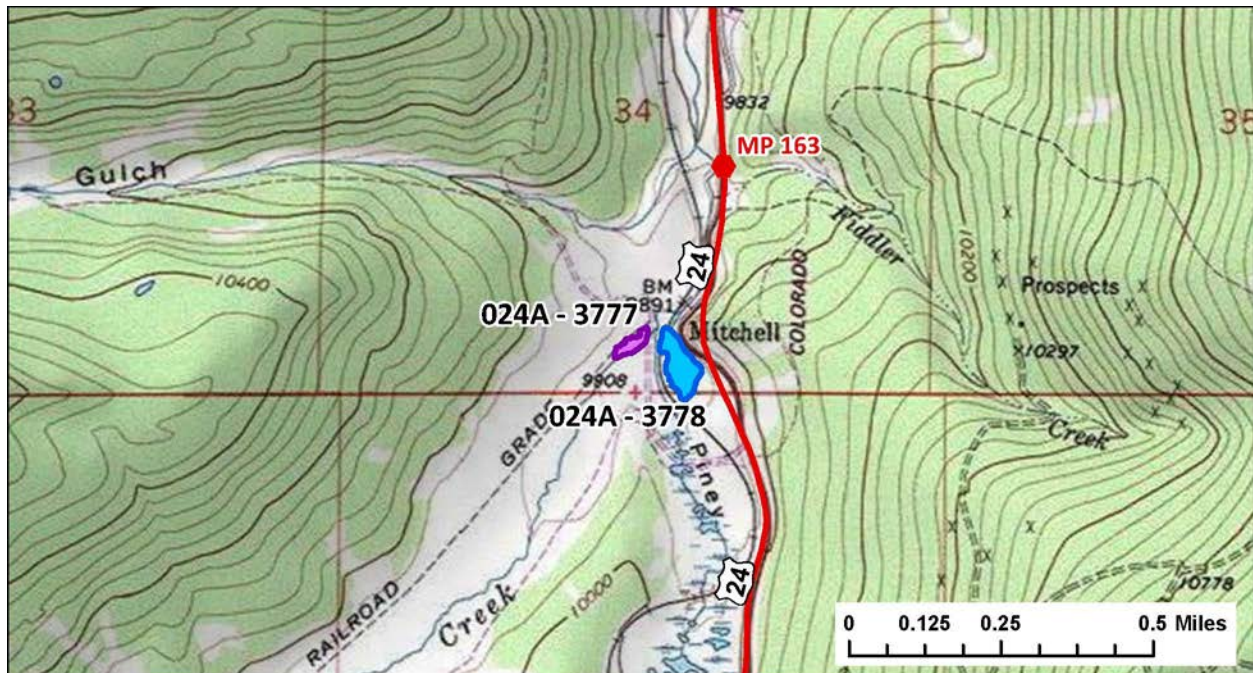
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,921 ft

Size: 0.75 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen occurs within a valley along the south side of train tracks and is about 200 m from the road and 10 m from the train tracks. It is within EO CEG001227. Dominated by *Salix planifolia* and *Carex aquatilis*. There is a channel through the middle of the fen with standing water.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	5	7.5
CAUT	<i>Carex utriculata</i>	5	7.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>Ater</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
CASI2	<i>Carex simulata</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	3	1.5
MIOD2	<i>Micranthes odontoloma</i>	3	1.5
RUDE2	<i>Rumex densiflorus</i>	3	1.5
CAST22	<i>Carex stevenii</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
FRVEB2	<i>Fragaria vesca</i> ssp. <i>bracteata</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5
STELL	<i>Stellaria</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
SWPE	<i>Swertia perennis</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
F-GENTI	<i>Gentianaceae</i>	1	0.1
POLYG4	<i>Polygonum</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 040A - 0211

Nearest Milepoint: U.S. 40, MP 147

Location: Near U.S. Route 40

Surveyed Date: 06/15/2016

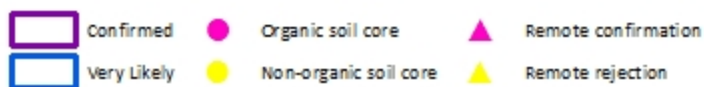
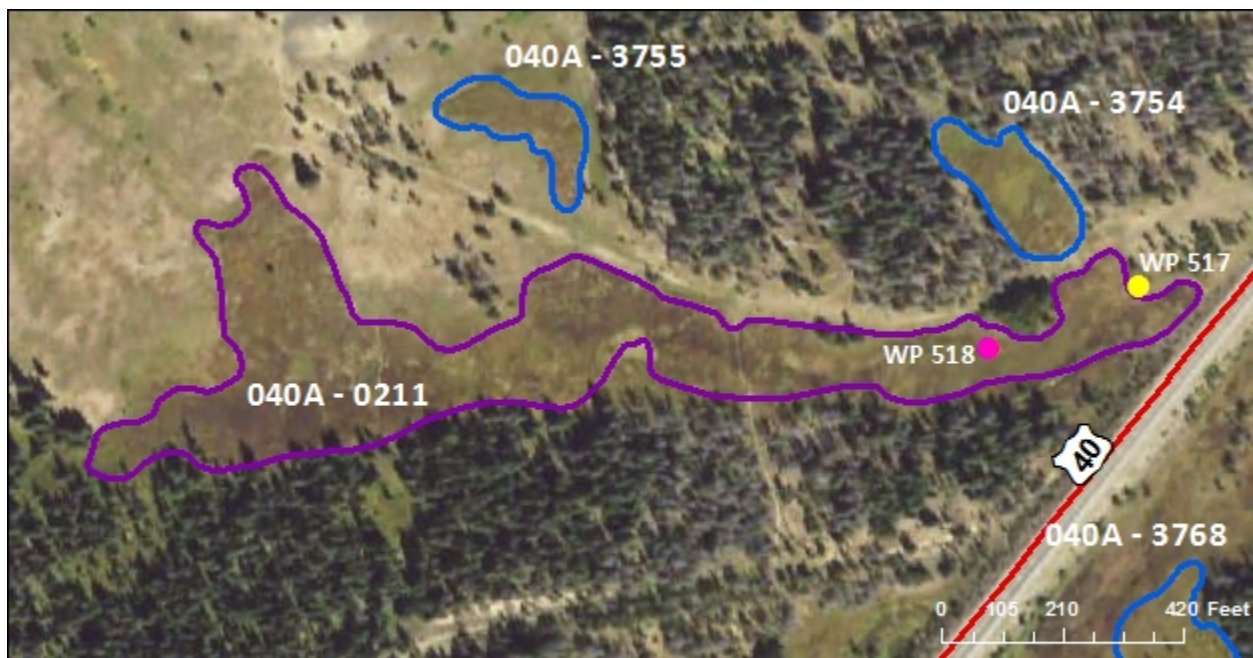
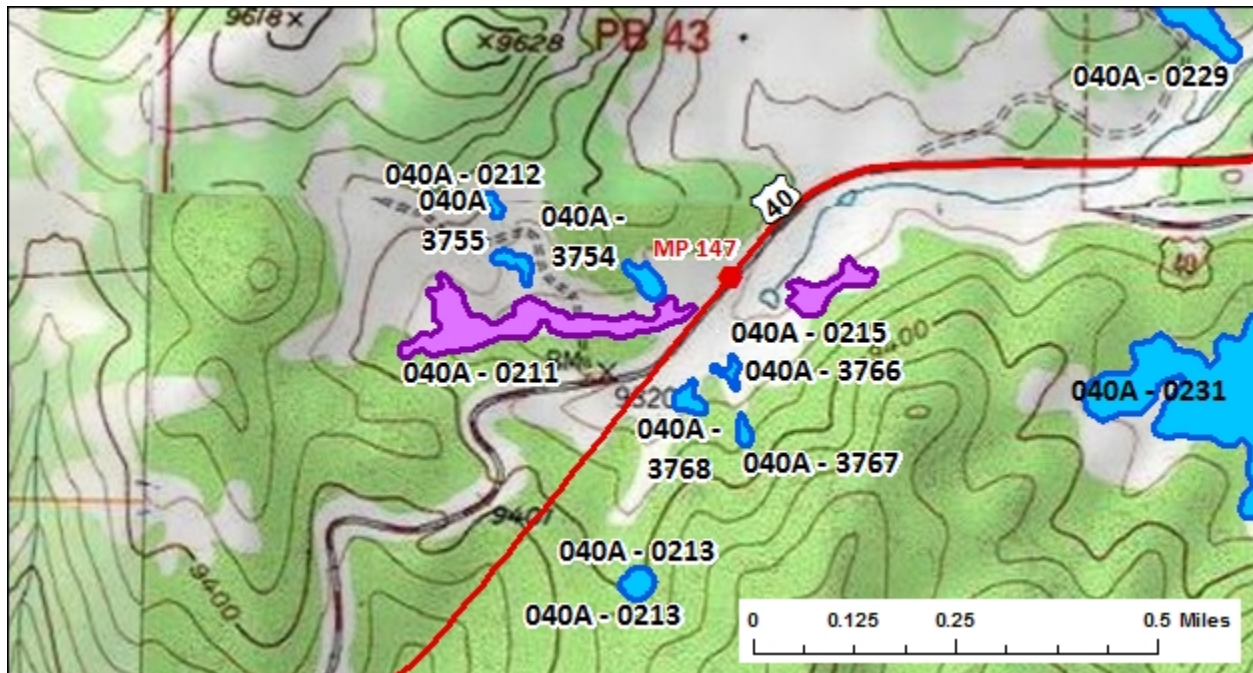
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 9,344 ft

Size: 7.27 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Fen in depression, near creek. *Psychrophila*, *Salix*, and *Carex aquatilis* dominated.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
ANNAZ3	<i>Anemonastrum narcissiflorum</i> ssp. <i>zephyrum</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
RAALM	<i>Ranunculus alismifolius</i> var. <i>montanus</i>	3	1.5

Fen Polygon: 040A - 0215

Nearest Milepoint: U.S. 40, MP 147

Location: Near U.S. Route 40

Surveyed Date: 06/16/2016

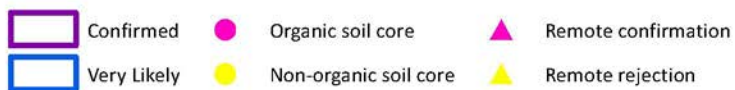
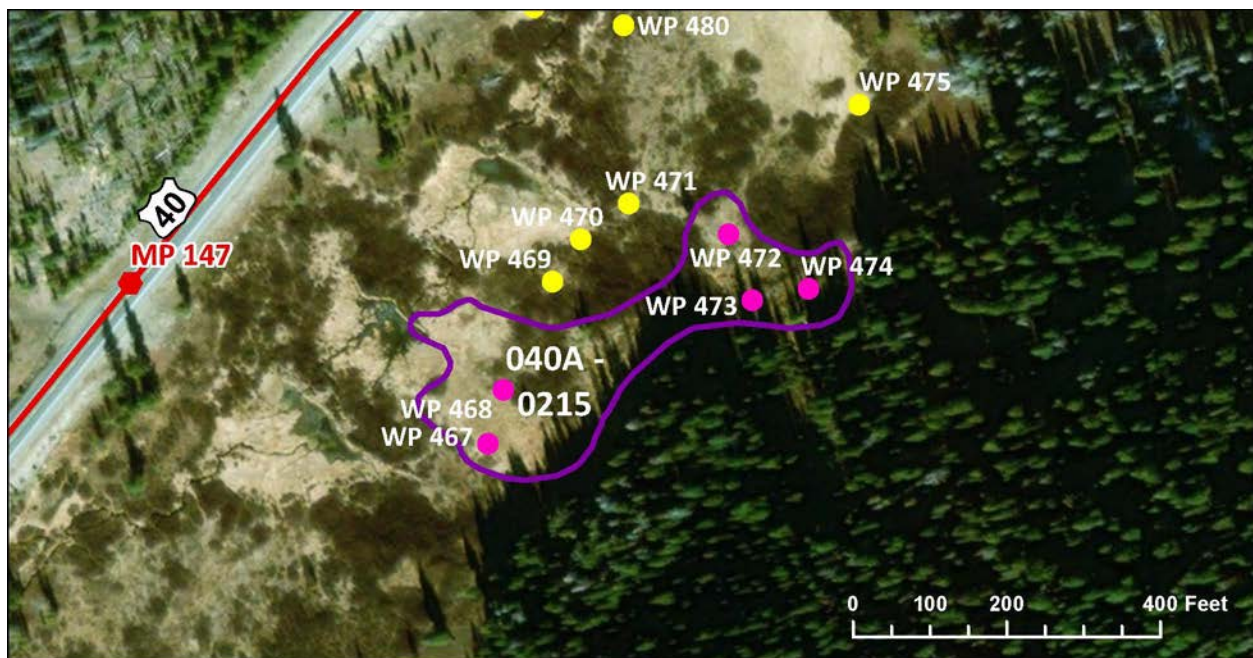
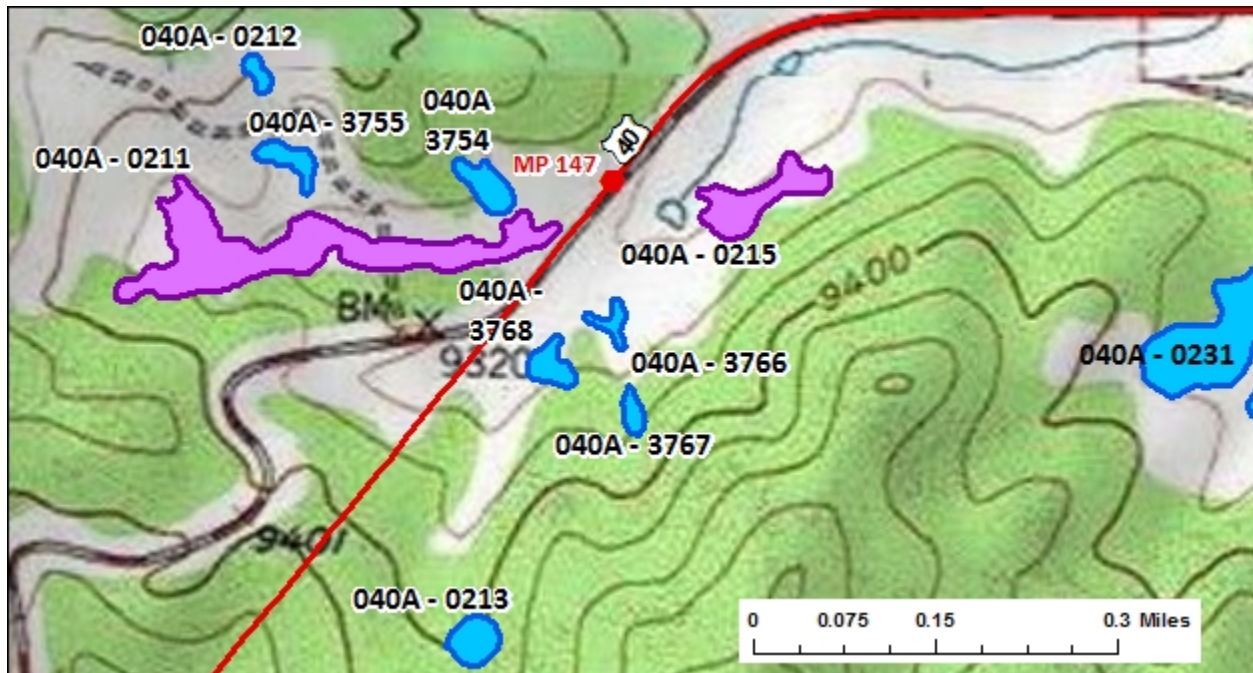
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,285 ft

Size: 1.84 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Large, gently sloping fen. Some channels and open water with hummocks. Game trails and evidence of browse.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
ELQU2	<i>Eleocharis quinqueflora</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CAUT	<i>Carex utriculata</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
ABBI3	<i>Abies bifolia</i>	3	1.5
ANEMO	<i>Anemone</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5
RAALM	<i>Ranunculus alismifolius</i> var. <i>montanus</i>	2	0.5

Fen Polygon: 040A - 0246

Nearest Milepoint: U.S. 40, MP 151

Location: Near U.S. Route 40

Surveyed Date: 06/15/2016

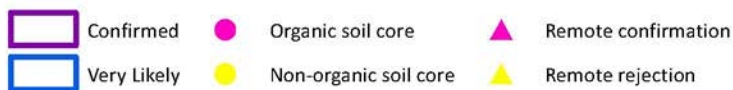
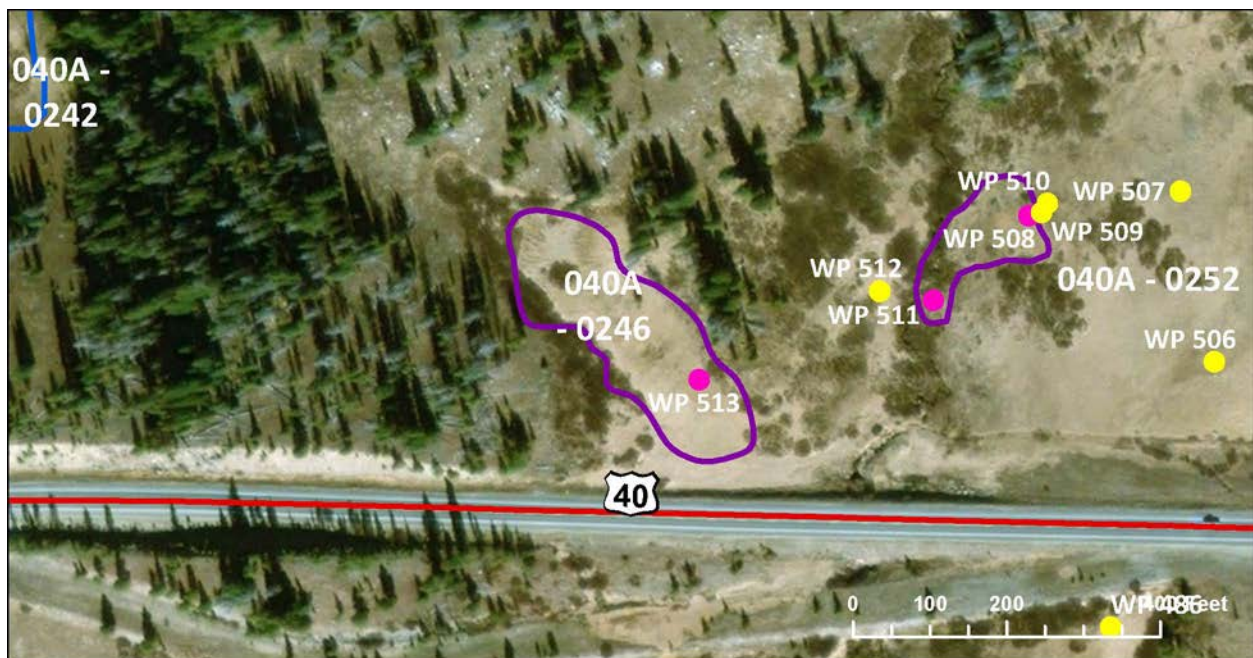
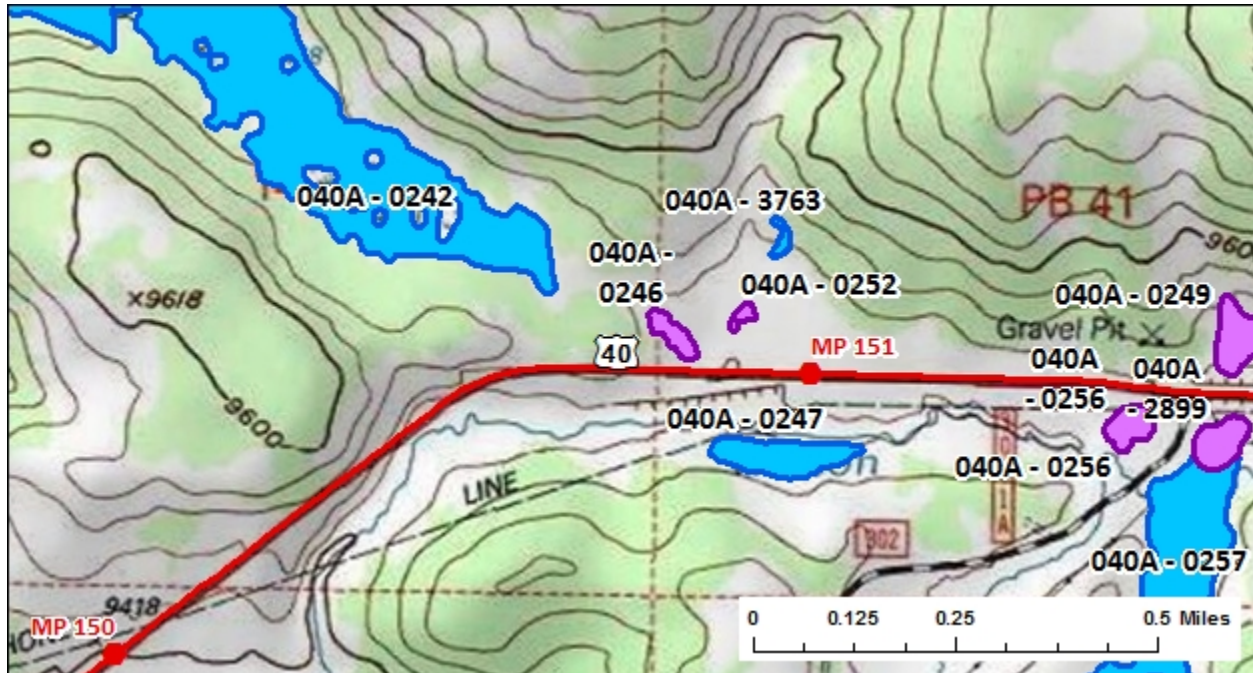
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,475 ft

Size: 1.09 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Gently sloping fen, dominated by *Psychrophila*, *Eleocharis*, *Pedicularis*, and *Carex*. Visited early in season. Some evidence of browse.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
ELQU2	<i>Eleocharis quinqueflora</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	2	0.5

Fen Polygon: 040A - 0249

Nearest Milepoint: U.S. 40, MP 152

Location: Near U.S. Route 40

Surveyed Date: 06/15/2016

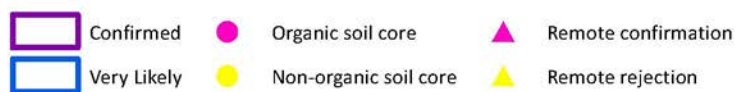
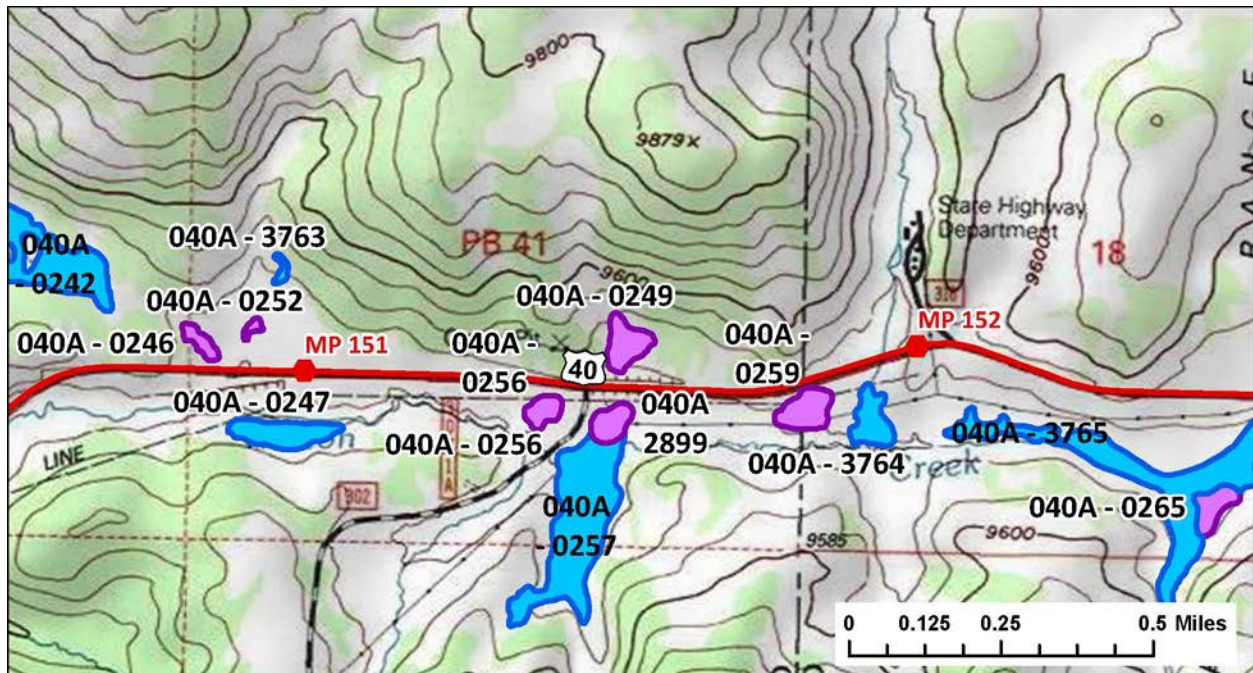
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,508 ft

Size: 2.83 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Fen adjacent to drainage creek, in a depression. Dominated by *Salix*, *Psychrophila*, and *Carex*. Fen boundary extends to trees on east. To north, fen boundary extends back towards slope.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
ELQU2	<i>Eleocharis quinqueflora</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CAUT	<i>Carex utriculata</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
ANNAZ3	<i>Anemonastrum narcissiflorum ssp. zephyrum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PICOL	<i>Pinus contorta var. latifolia</i>	2	0.5
VACCI	<i>Vaccinium</i>	2	0.5

Fen Polygon: 040A - 0252

Nearest Milepoint: U.S. 40, MP 151

Location: Near U.S. Route 40

Surveyed Date: 06/15/2016

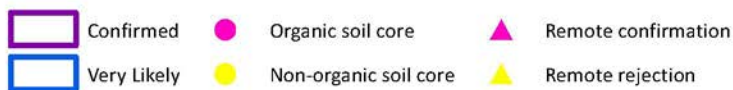
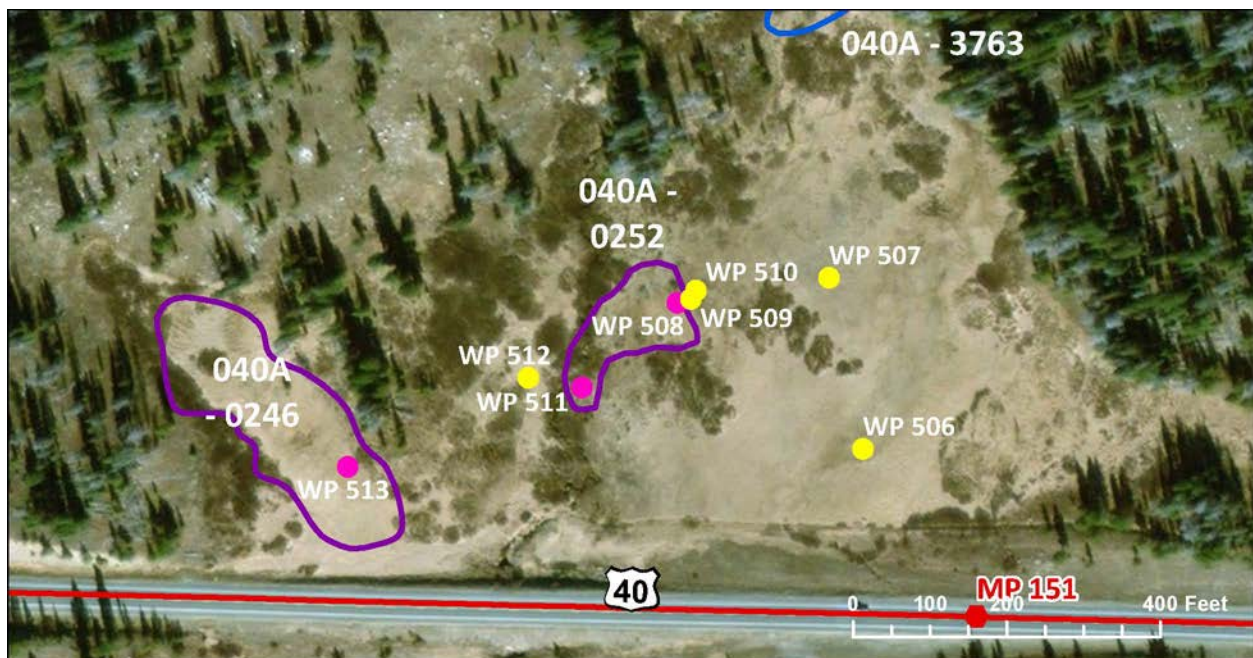
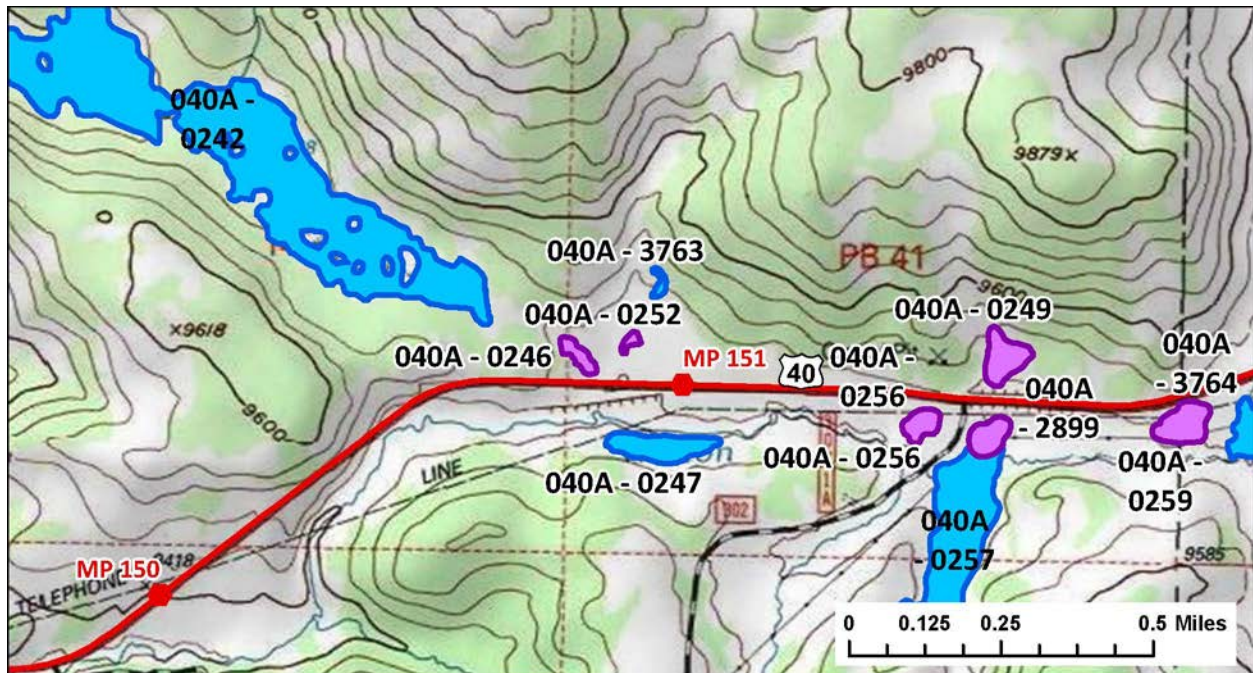
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 9,472 ft

Size: 0.37 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Spring-fed fen. Aquatic species and moss surrounding spring outlet. Peat is deepest near spring.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
ELQU2	<i>Eleocharis quinqueflora</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5

Fen Polygon: 040A - 0256

Nearest Milepoint: U.S. 40, MP 151

Location: Adjacent to Walton Creek

Surveyed Date: 06/15/2016

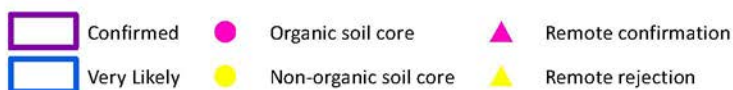
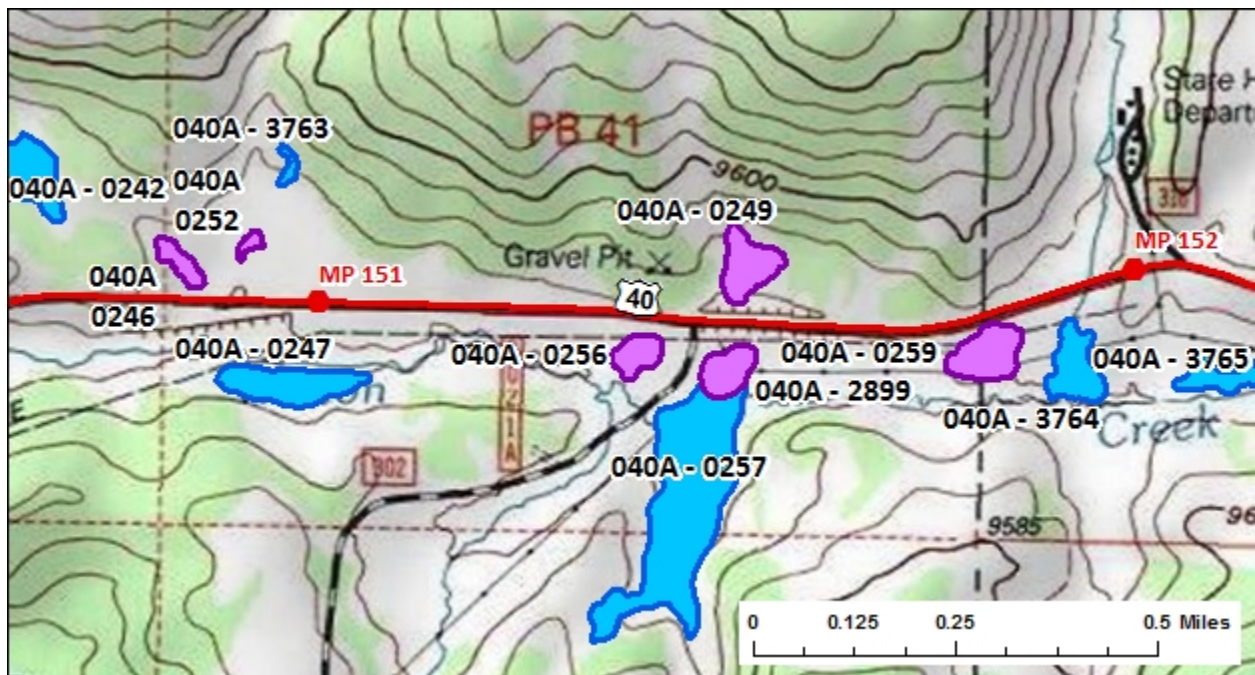
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,465 ft

Size: 1.54 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Sloping fen; central area dominated by *Eleocharis quinqueflora* and *Carex utriculata*, surrounded by *Salix planifolia*. Area with *Eleocharis* is somewhat terraced as it slopes down to creek, with patches of *Sphagnum* interspersed.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	8	62.5
CAUT	<i>Carex utriculata</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
AGROS2	<i>Agrostis</i>	3	1.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5

Fen Polygon: 040A - 0259

Nearest Milepoint: U.S. 40, MP 152

Location: Between U.S. Route 40 and Walton Creek

Surveyed Date: 06/15/2016

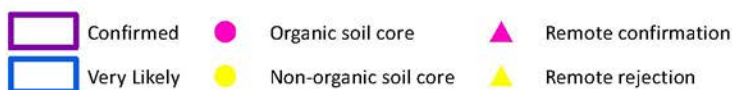
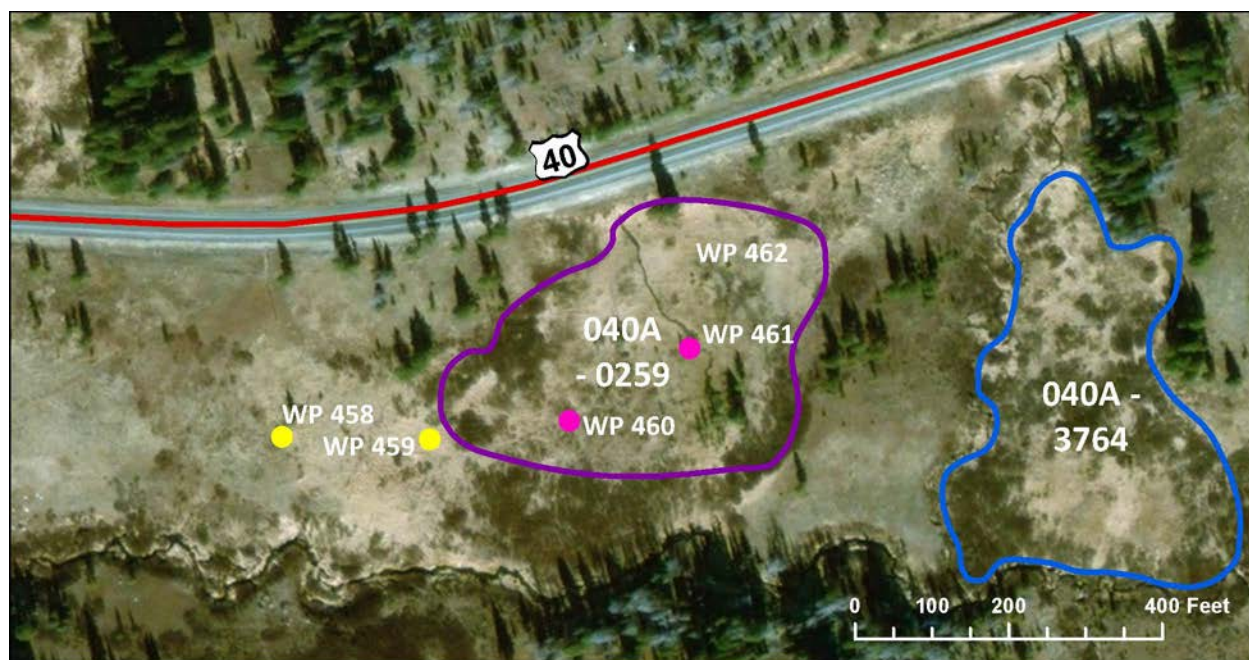
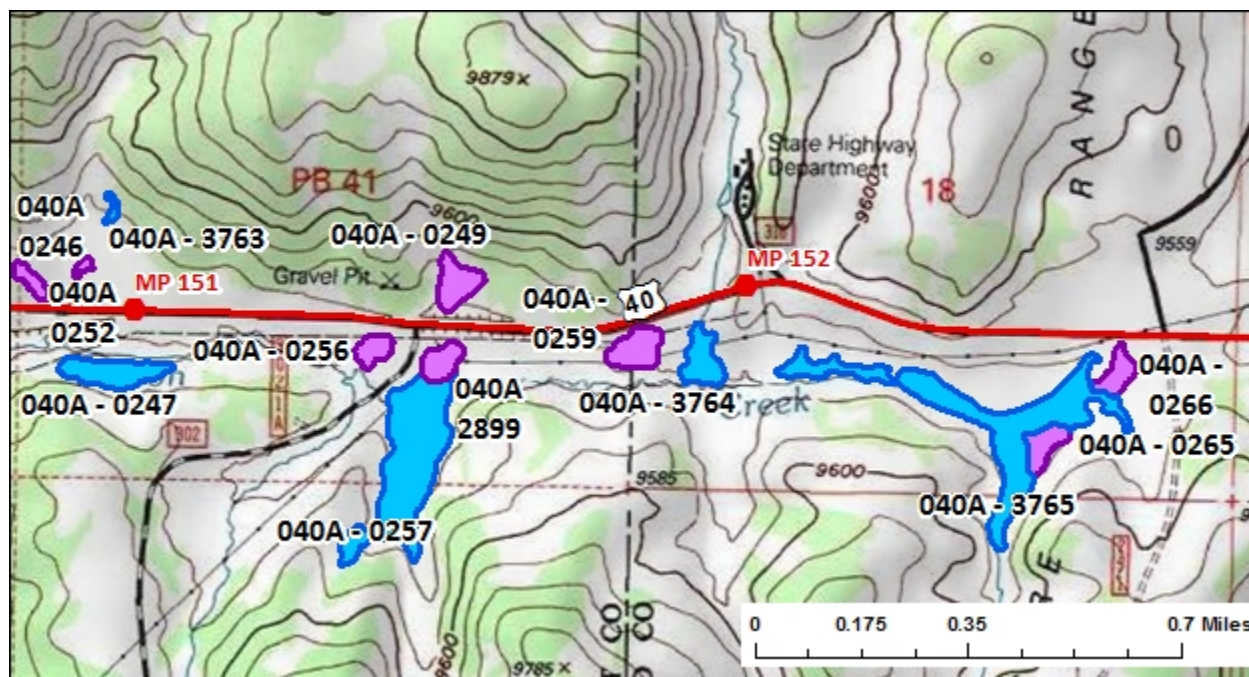
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,491 ft

Size: 3.00 acres

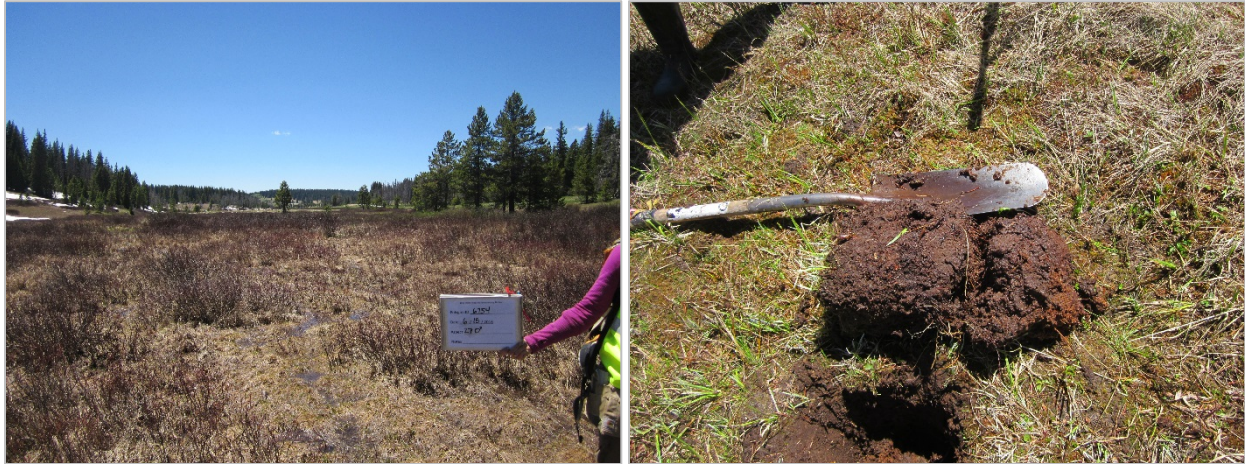
ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Dense willow fen sloping down from road and feeding into creek. Central area of fen with dense *Sphagnum*, *Pinus contorta*, and high forb diversity. Worthy of further botanical survey. Appears to have spring channels through site coming up from under road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	8	62.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	5	7.5
AGROS2	<i>Agrostis</i>	4	3.5
ANTEN	<i>Antennaria</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	1	0.1

Fen Polygon: 040A - 0265

Nearest Milepoint: U.S. 40, MP 153

Location: Across from turnoff for Rabbit Ears Pass

Surveyed Date: 06/15/2016

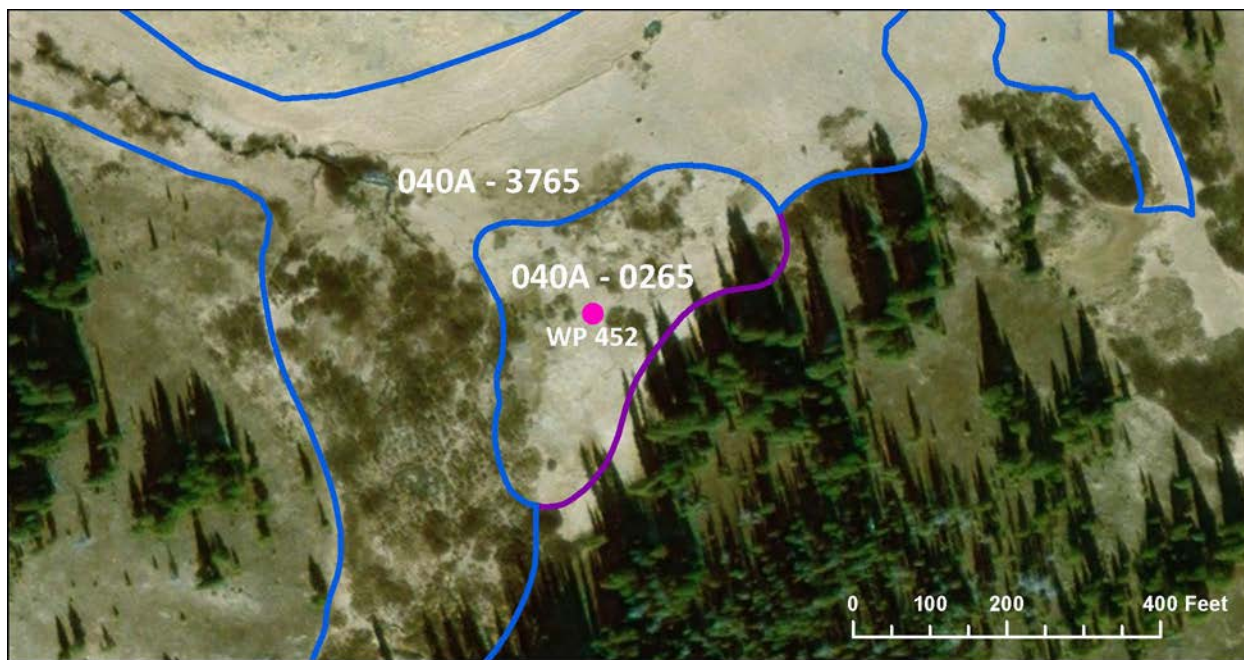
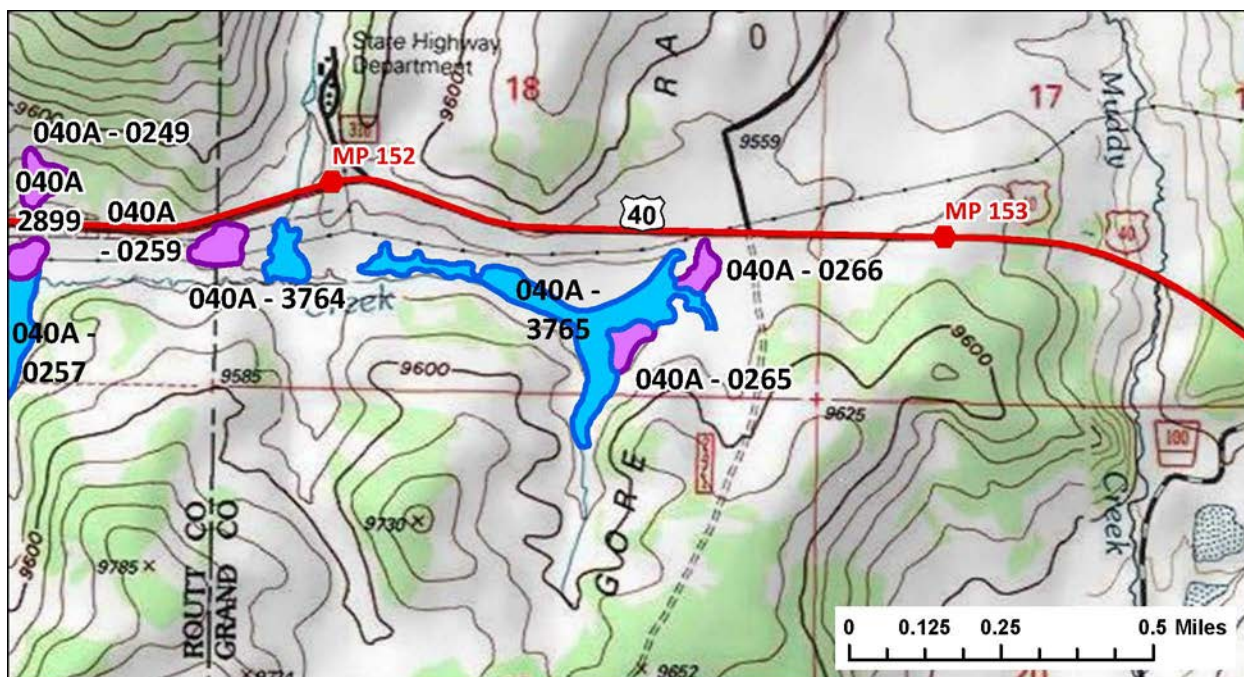
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,514 ft

Size: 2.22 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



- | | | |
|-------------|-----------------------|---------------------|
| Confirmed | Organic soil core | Remote confirmation |
| Very Likely | Non-organic soil core | Remote rejection |



Description: Fen stretches across entire valley. Many chorus frogs in area.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5

Fen Polygon: 040A - 0266

Nearest Milepoint: U.S. 40, MP 153

Location: Across from turnoff for Rabbit Ears Pass

Surveyed Date: 06/15/2016

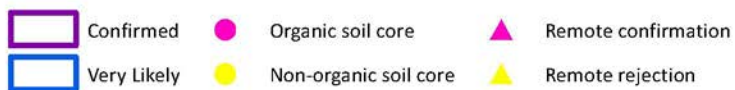
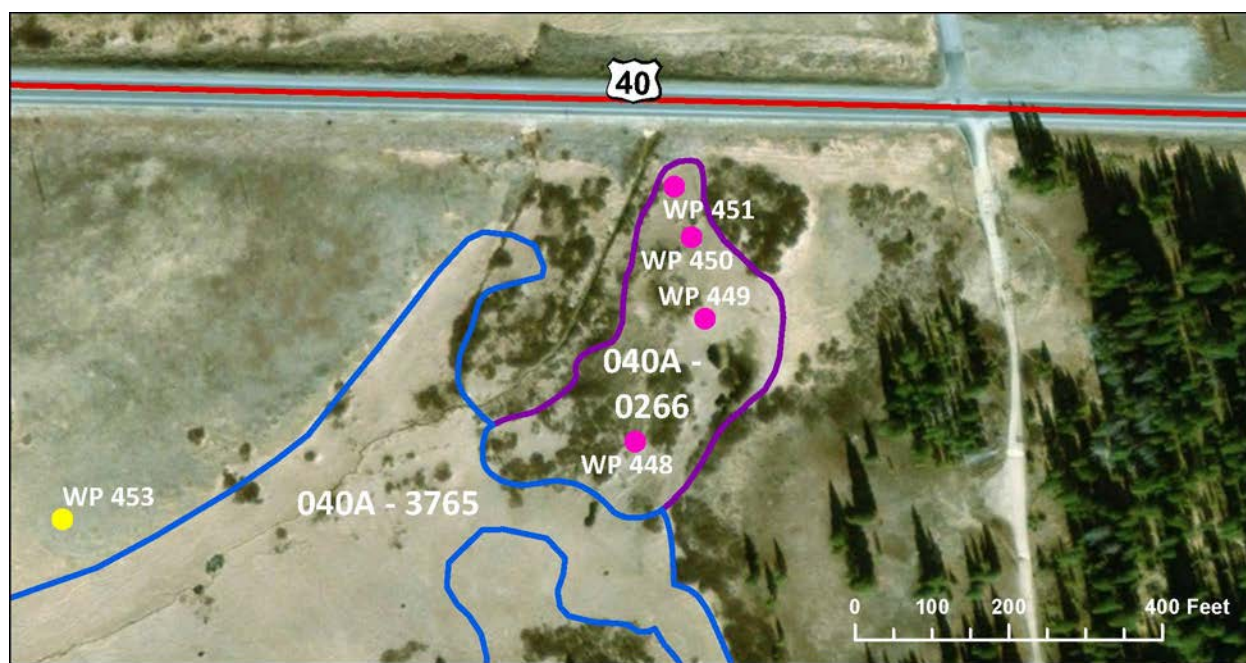
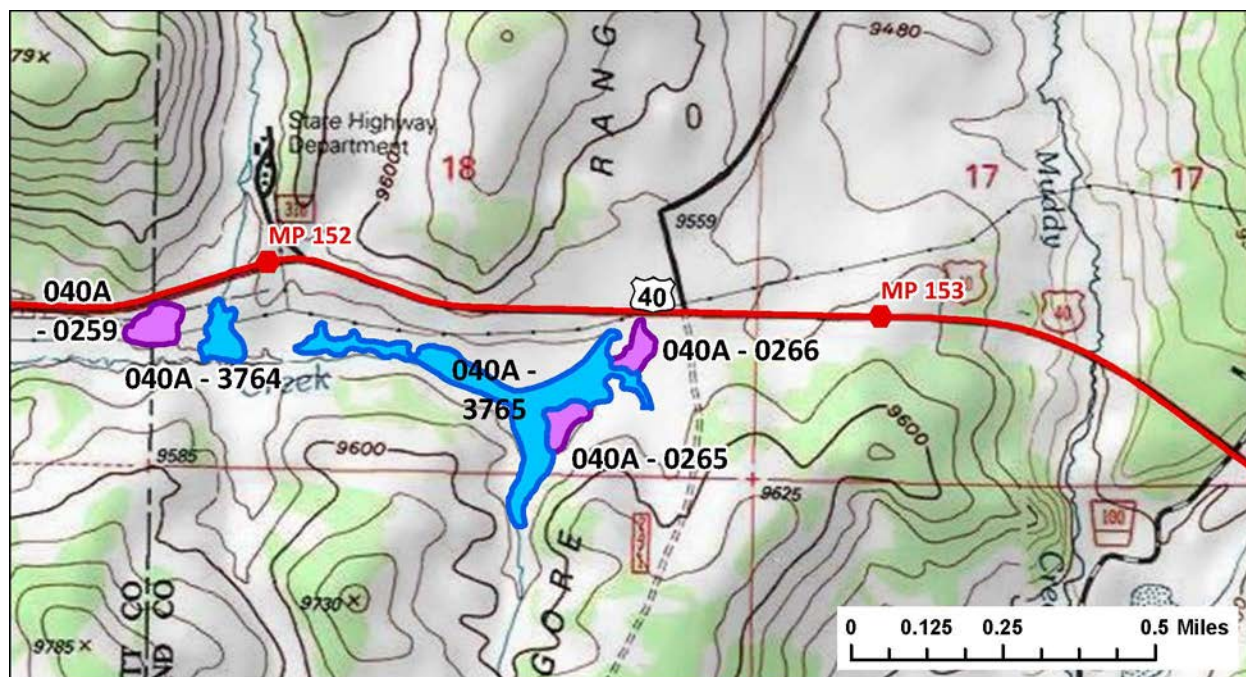
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,534 ft

Size: 1.97 acres

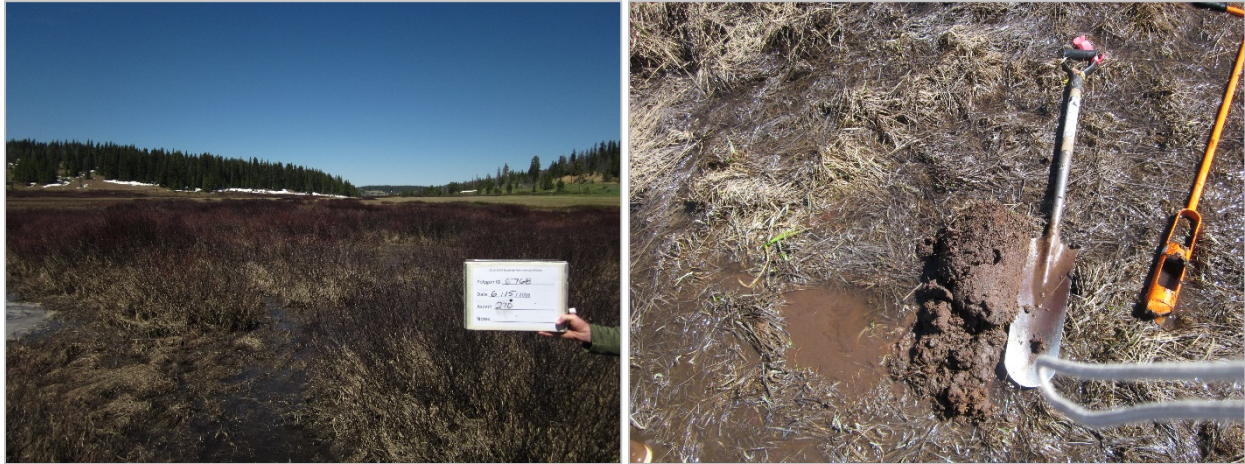
ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Site dominated by *Salix planifolia* and *Carex aquatilis*. Small areas of open water. Open areas dominated by *Carex utriculata* in deeper water and by *Carex aquatilis* in saturated soil. Large ditch runs through the fen and terminates at road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5

Fen Polygon: 040A - 2899

Nearest Milepoint: U.S. 40, MP 151

Location: Between U.S. Route 40 and Walton Creek

Surveyed Date: 06/15/2016

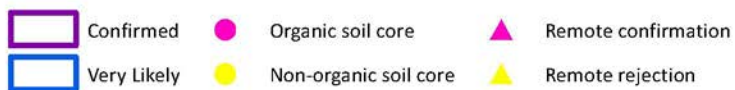
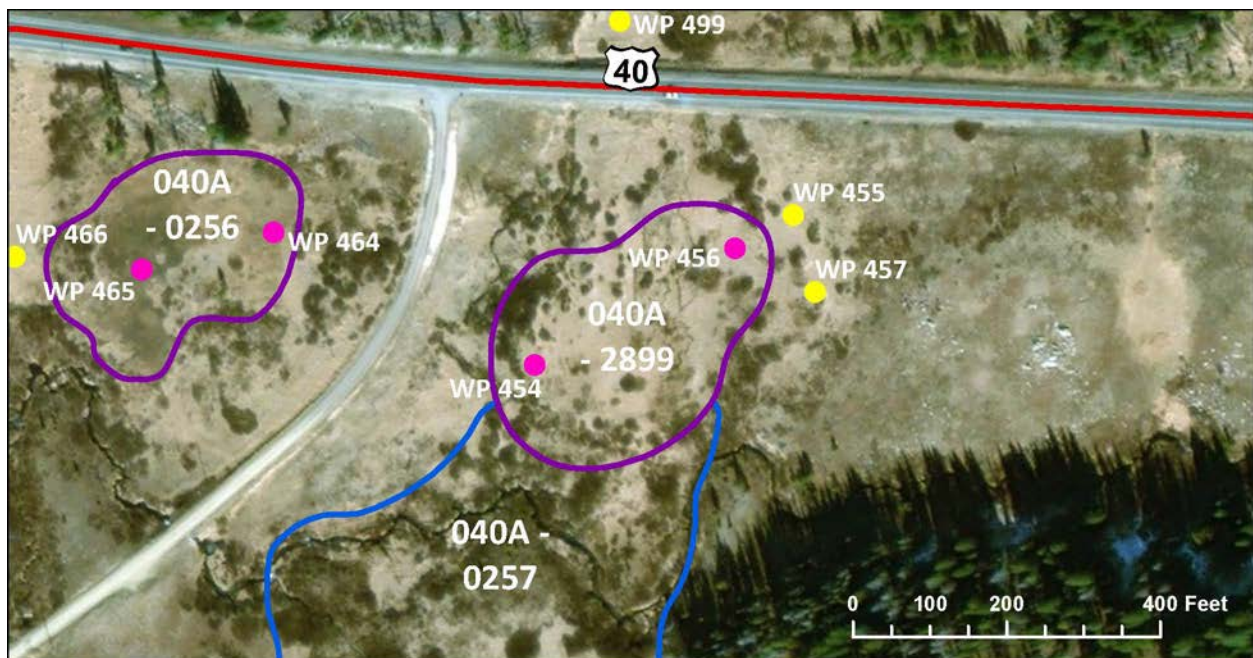
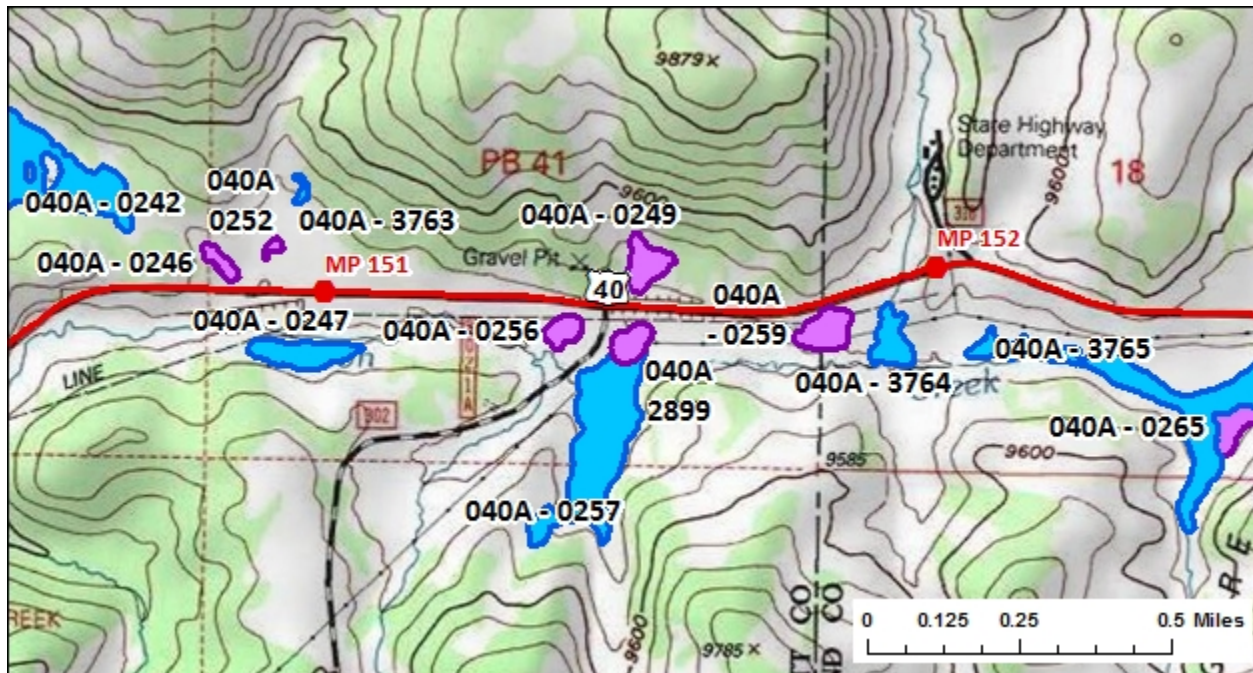
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,475 ft

Size: 2.03 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Large fen within valley. Dominated by *Salix planifolia*, *Carex aquatilis*, and *Psychrophila leptosepala*. Small channels running through fen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
SAPL2	<i>Salix planifolia</i>	7	37.5
CAUT	<i>Carex utriculata</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	2	0.5

Fen Polygon: 040A - 3457

Nearest Milepoint: U.S. 40, MP 233

Location: Just outside of Winter Park, along Jim Creek

Surveyed Date: 8/8/2017

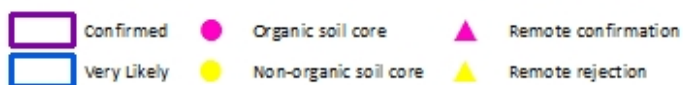
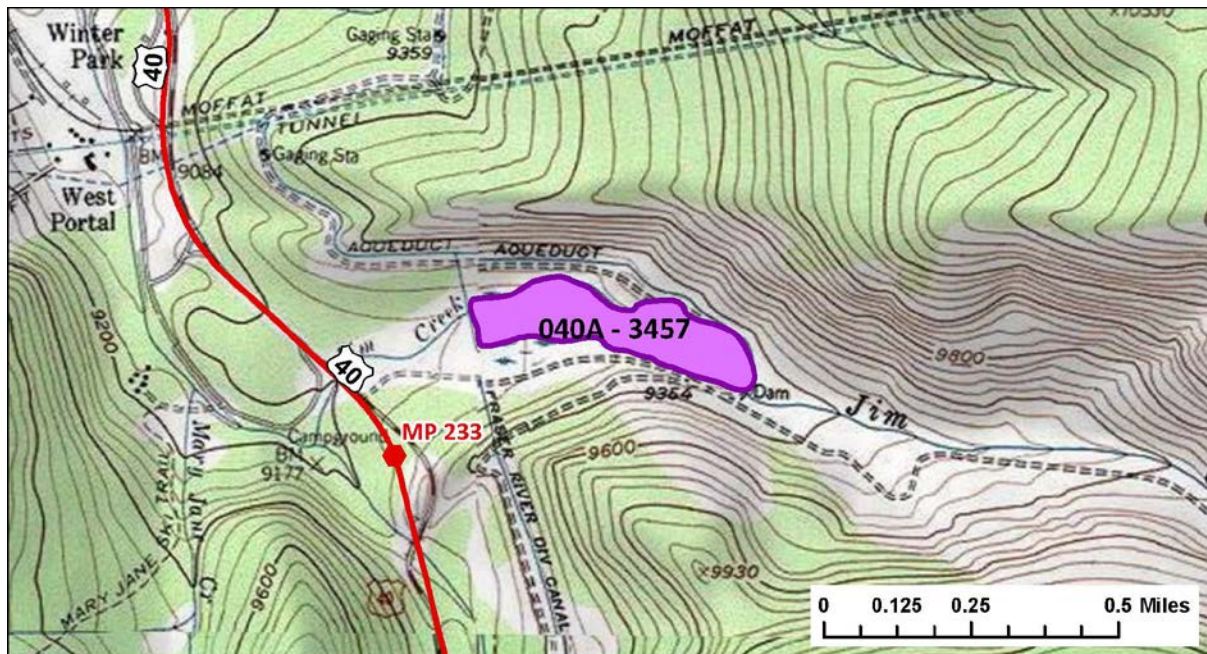
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,318 ft

Size: 27.04 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Arapaho National Forest



Description: Sloping fen in a valley between two uplands. Standing water and stream channels run through fen. Wetland corridor continues into downslope ROW.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SADR	<i>Salix drummondiana</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
HESPM	<i>Heracleum sphondylium ssp. montanum</i>	5	7.5
VIOLA	<i>Viola</i>	5	7.5
BEGl	<i>Betula glandulosa</i>	4	3.5
CAREX	<i>Carex</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	3	1.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. Subbiflorum</i>	2	0.5
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 050A - 0030

Nearest Milepoint: U.S. 50, MP 198

Location: Monarch Pass

Surveyed Date: 8/9/2016

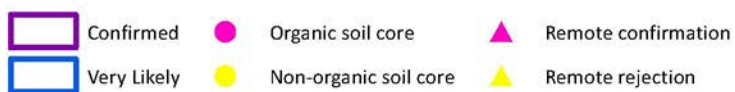
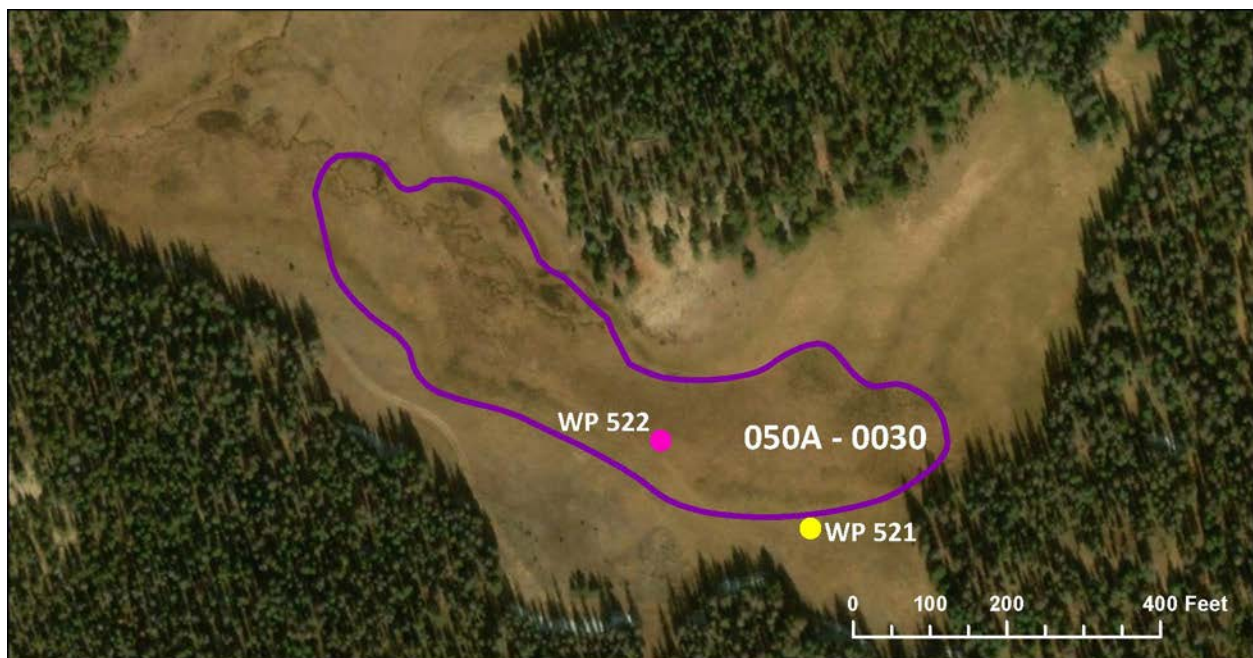
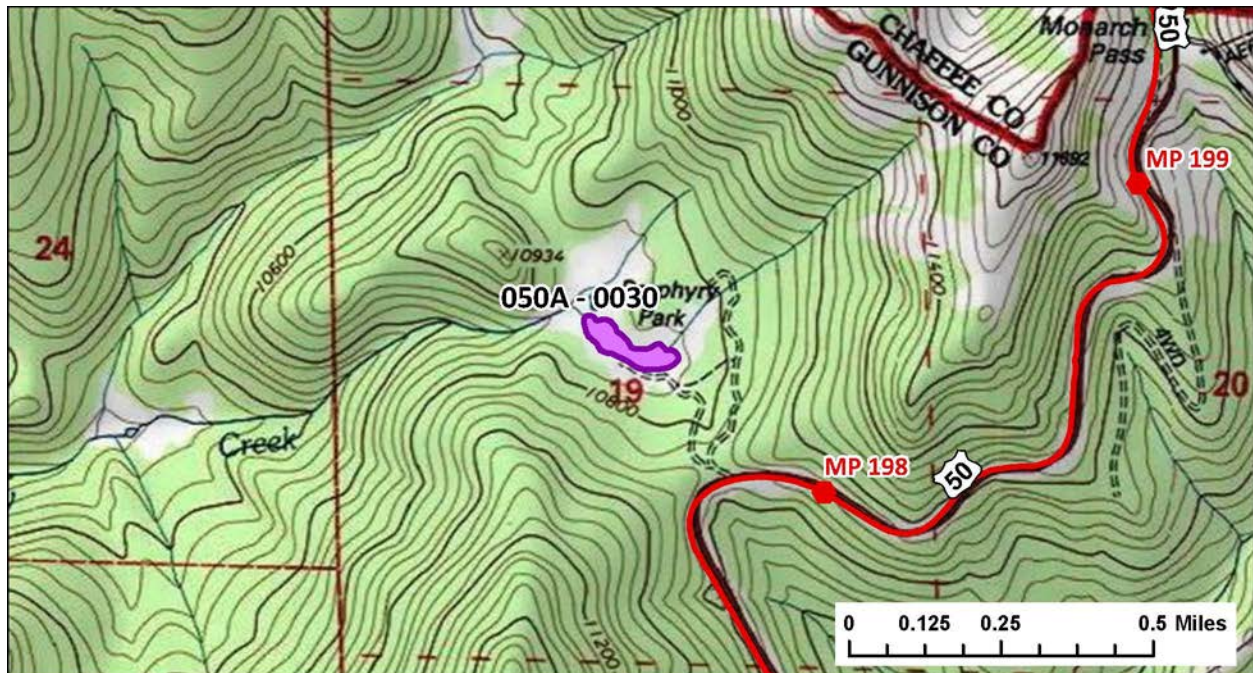
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,738 ft

Size: 3.61 acres

ROW Status: Public Easement

Primary Landowner: Gunnison National Forest



Description: Open meadow, dominated by *Carex* species.



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
PEGR2	<i>Pedicularis groenlandica</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CASI2	<i>Carex simulata</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
CASTI2	<i>Castilleja</i>	2	0.5
EPHO	<i>Epilobium hornemannii</i>	2	0.5
PHPR3	<i>Phleum pratense</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
VEAM2	<i>Veronica americana</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
BIBI5	<i>Bistorta bistortoides</i>	1	0.1

Fen Polygon: 050A - 0033

Nearest Milepoint: U.S. 50, MP 202

Location: Monarch Pass, along Arkansas River

Surveyed Date: 8/9/2016

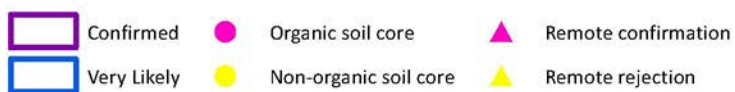
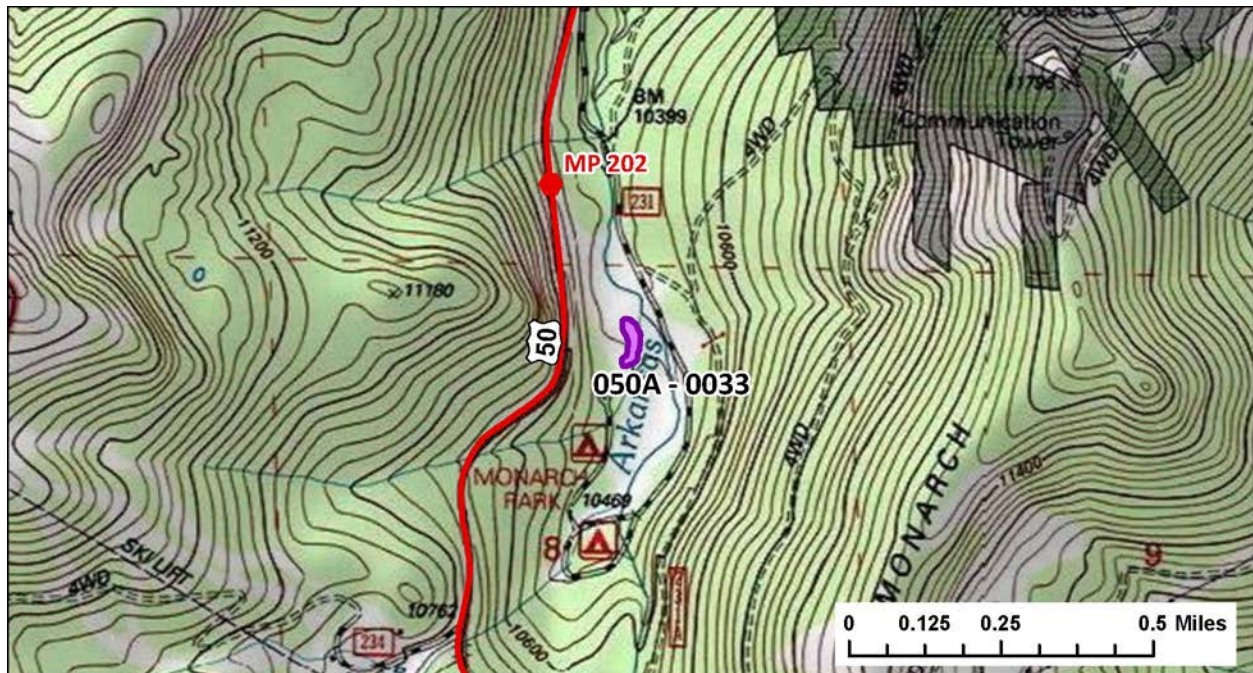
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,430 ft

Size: 1.04 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Core had 40 cm peat with a small percentage clay in lower core. Little enough to still qualify as OM. Open fen meadow off the side of a creek. *Carex aquatilis* and *Salix planifolia* dominated. Traces of moss. Area is diverse.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
SAPL2	<i>Salix planifolia</i>	7	37.5
LUPA4	<i>Luzula parviflora</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SWPE	<i>Swertia perennis</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
TOIN3	<i>Tolmachevia integrifolia</i>	3	1.5
CAAU3	<i>Carex aurea</i>	2	0.5
CAIL	<i>Carex illota</i>	2	0.5
CANO3	<i>Carex nova</i>	2	0.5
CAREX	<i>Carex</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
SECR	<i>Senecio crassulus</i>	2	0.5

Fen Polygon: 065A - 3381

Nearest Milepoint: SH 65, MP 25

Location: Adjacent to Orchard City Aqueduct

Surveyed Date: 8/25/2017

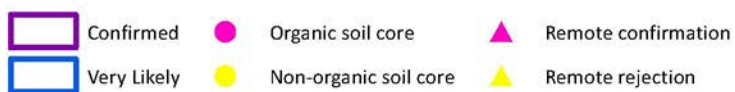
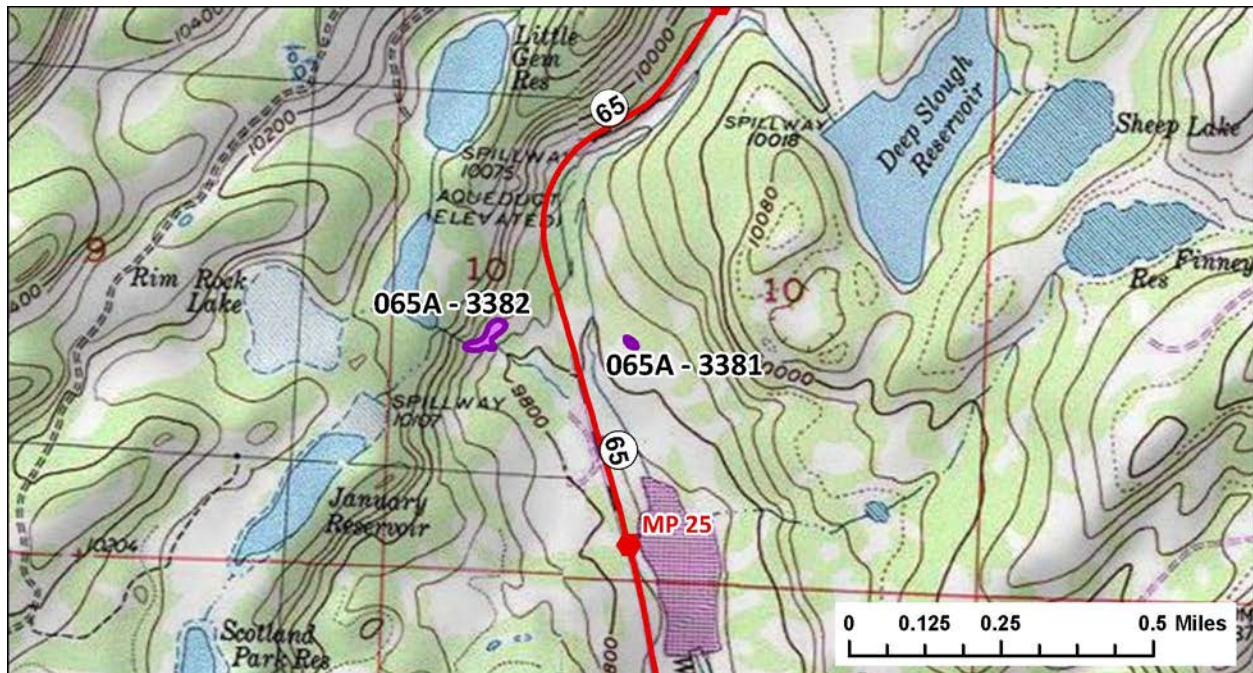
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,820 ft

Size: 0.12 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Small *Carex utriculata* clearing in woods, with standing water, above highway.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
EPILO	<i>Epilobium</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5

Fen Polygon: 065A - 3382

Nearest Milepoint: SH 65, MP 25

Location: Below Rim Rock Lake

Surveyed Date: 8/25/2017

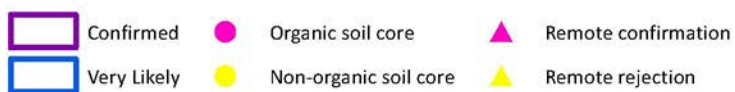
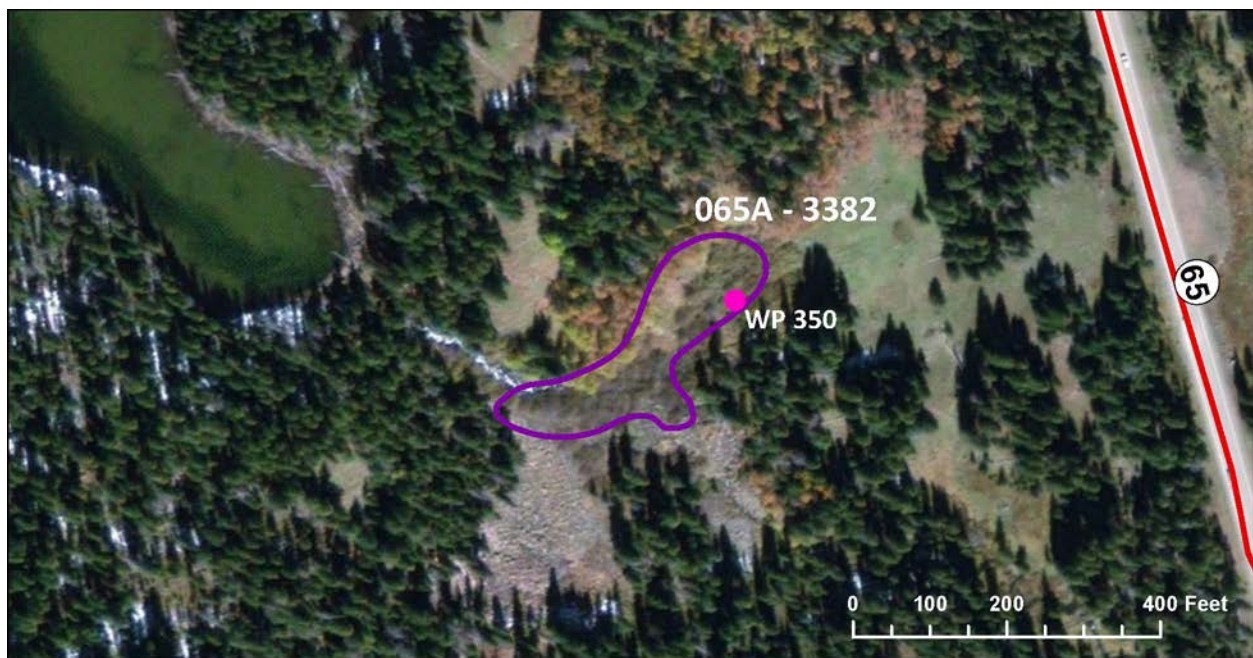
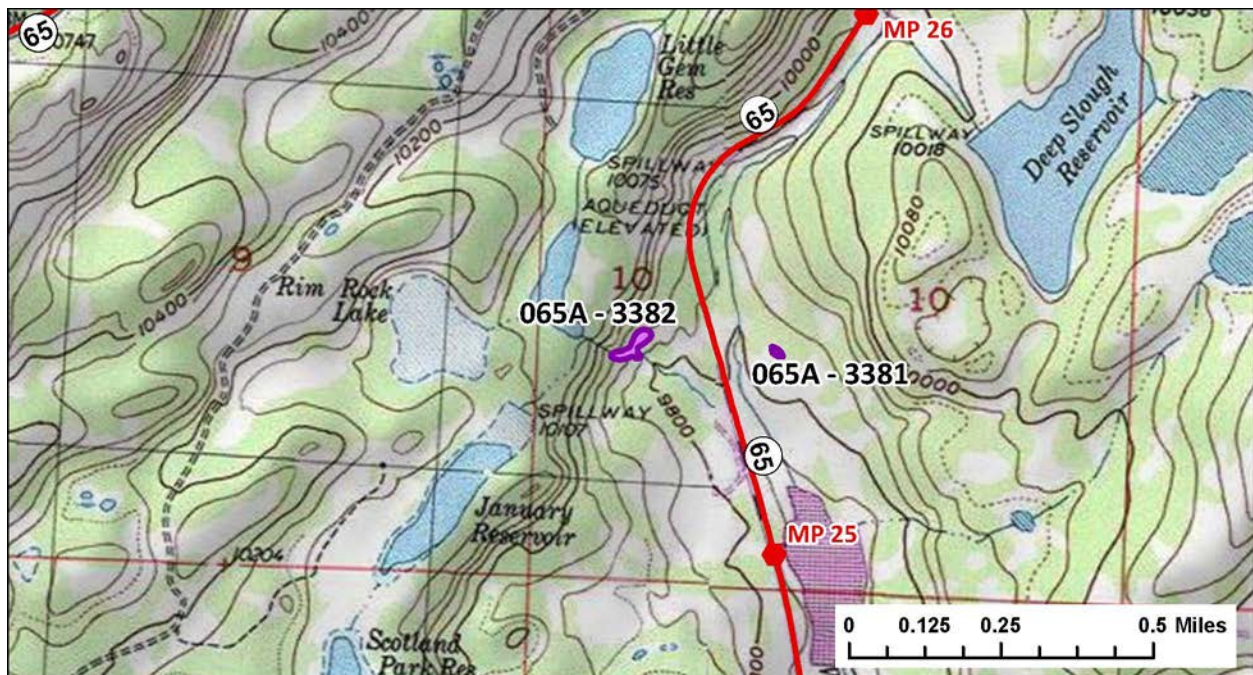
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,885 ft

Size: 0.83 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Fen is a large willow thicket with open patches of sedge and herbaceous vegetation. Polygon is connected with stream corridor that runs down to highway.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
MIOD2	<i>Micranthes odontoloma</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
BEER	<i>Berula erecta</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
SETR	<i>Senecio triangularis</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
EQAR	<i>Equisetum arvense</i>	3	1.5
LIMNOR	<i>Limnorchis</i>	3	1.5
LUPA4	<i>Luzula parviflora</i>	3	1.5
MIMUL	<i>Mimulus</i>	3	1.5
ORSE	<i>Orthilia secunda</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5

Fen Polygon: 065A - 3384

Nearest Milepoint: SH 65, MP 26

Location: Adjacent Island Lake Campground

Surveyed Date: 8/24/2017

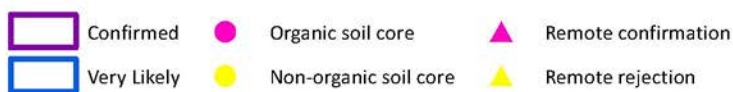
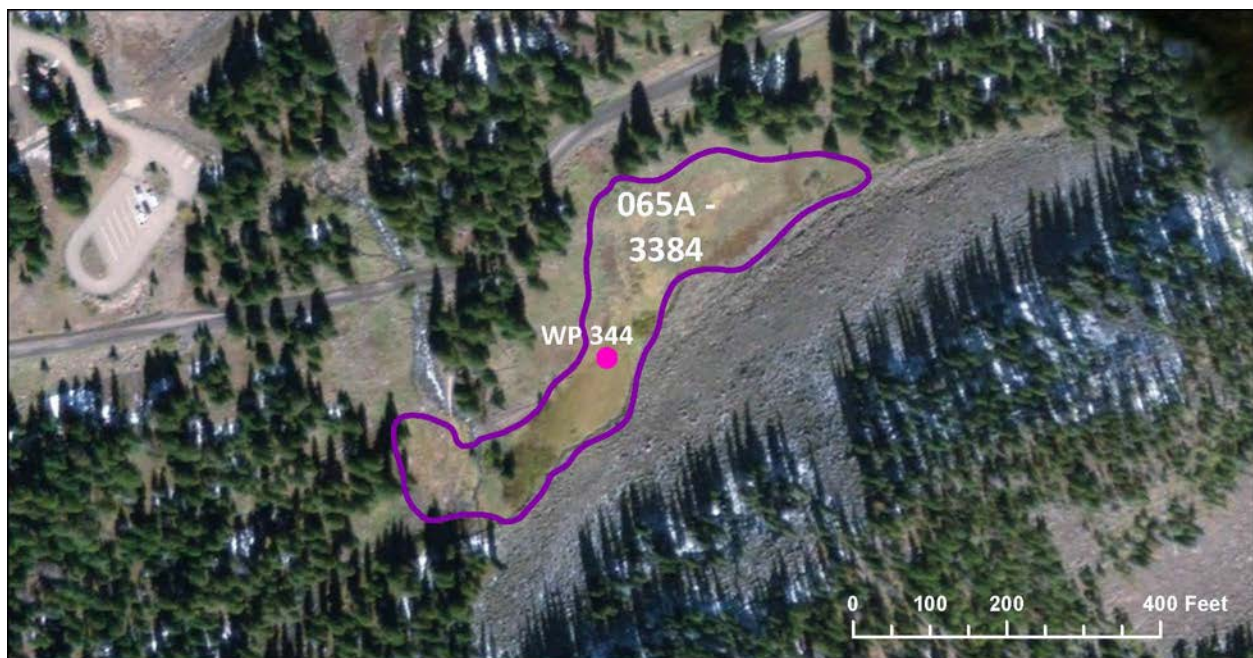
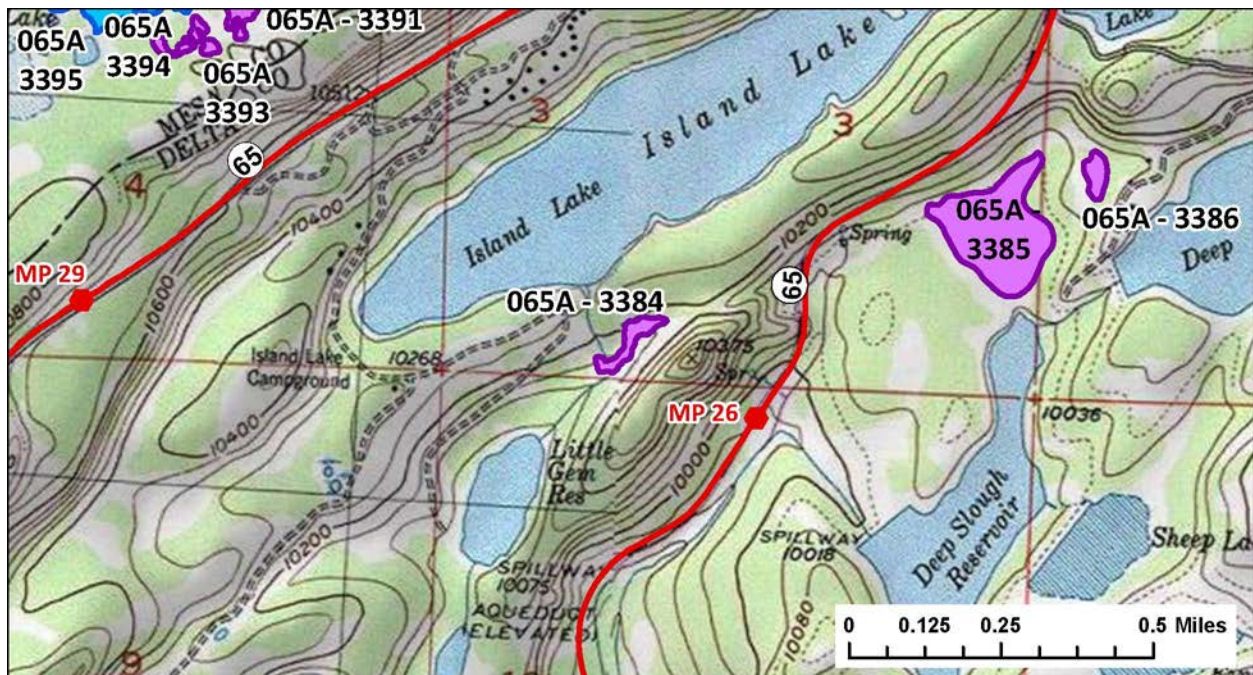
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,177 ft

Size: 1.93 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Interesting fen seep below steep talus slope and Island lake road. Water table at surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
CAJO	<i>Carex jonesii</i>	5	7.5
CASI2	<i>Carex simulata</i>	5	7.5
MIOR2	<i>Micranthes oregana</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
VETE4	<i>Veratrum tenuipetalum</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
CAREX	<i>Carex</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
STELL	<i>Stellaria</i>	3	1.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1

Fen Polygon: 065A - 3385

Nearest Milepoint: SH 65, MP 27

Location: Near Deep Ward Lake

Surveyed Date: 8/25/2017

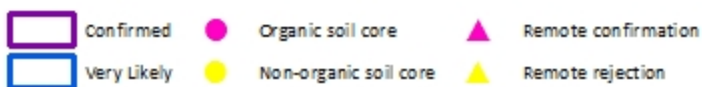
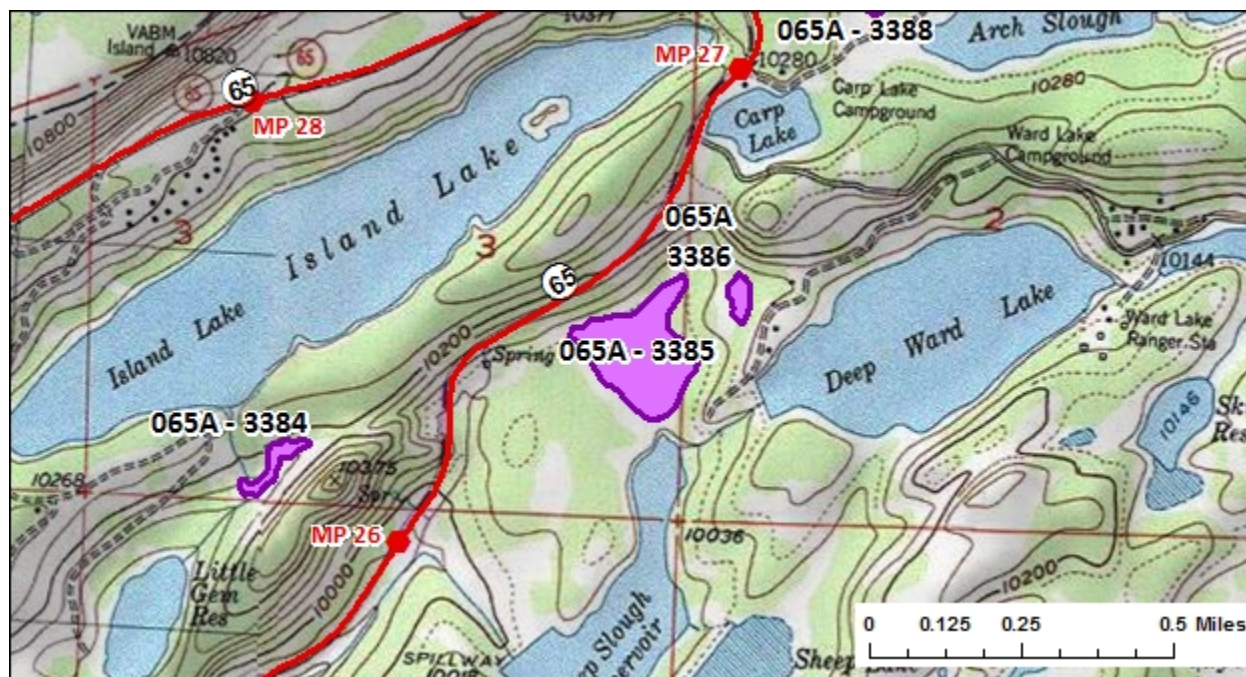
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,069 ft

Size: 16.10 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Large *Carex utriculata* fen, draining into Deep Ward Lake. Fen downslope of highway.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	3	1.5
CAREX	<i>Carex</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5

Fen Polygon: 065A - 3386

Nearest Milepoint: SH 65, MP 27

Location: Near Deep Ward Lake

Surveyed Date: 8/25/2017

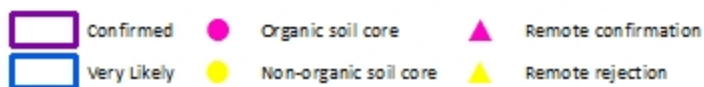
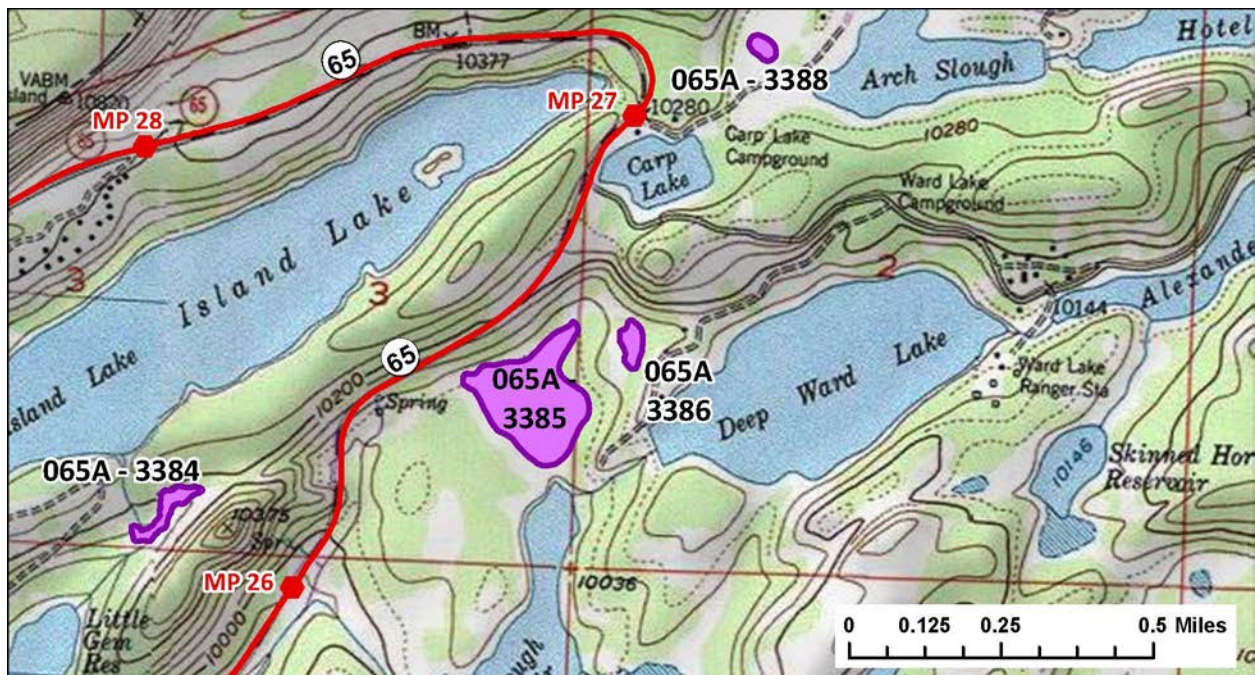
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,092 ft

Size: 1.37 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Large wet *Carex aquatilis* and *C. praegracilis* fen meadow.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAPR5	<i>Carex praegracilis</i>	7	37.5
ELBO	<i>Eleocharis bolanderi</i>	5	7.5
CASI2	<i>Carex simulata</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
CAUT	<i>Carex utriculata</i>	2	0.5

Fen Polygon: 065A - 3388

Nearest Milepoint: SH 65, MP 27

Location: Near Carp Lake Campground

Surveyed Date: 8/24/2017

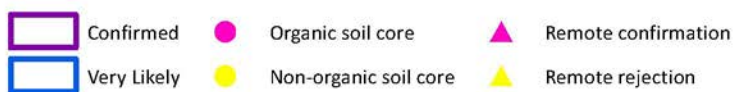
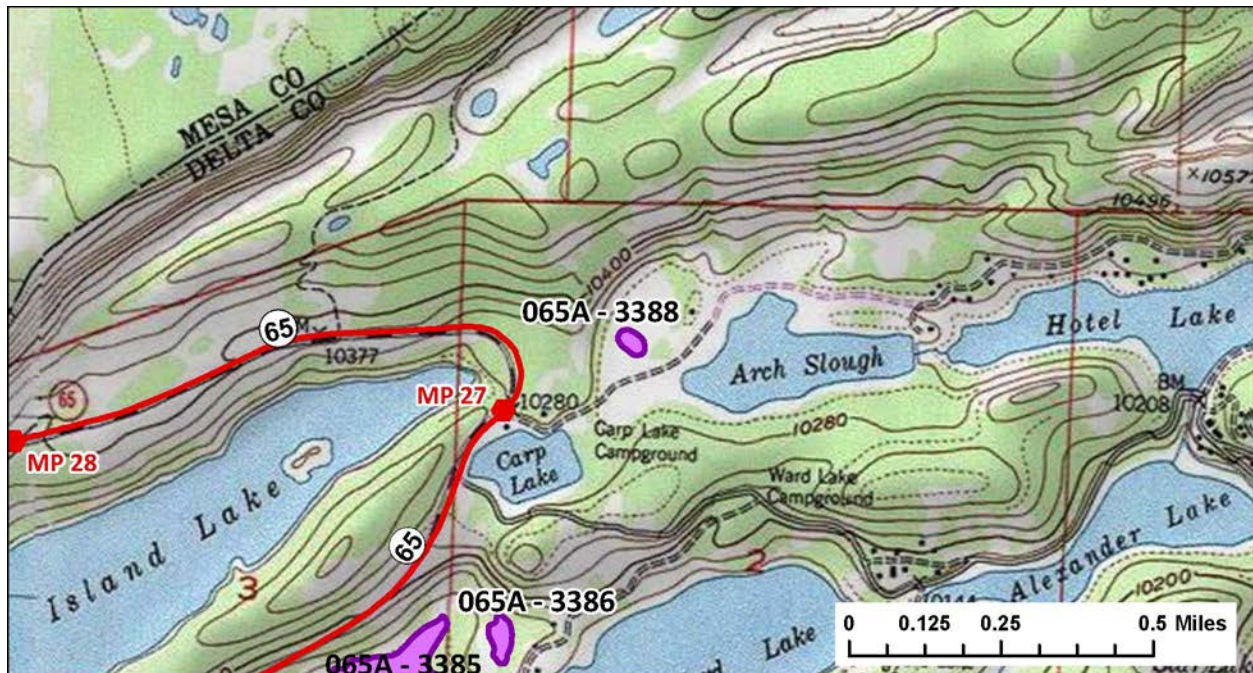
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,285 ft

Size: 0.83 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: *Carex* fen seep in middle of larger non-fen *Carex utriculata* meadow. High quality peat, standing water. *Carex diandra* located at site.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CADI4	<i>Carex diandra</i>	7	37.5
CAPR5	<i>Carex praegracilis</i>	5	7.5
CAUT	<i>Carex utriculata</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
STELL	<i>Stellaria</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5

Fen Polygon: 065A - 3391

Nearest Milepoint: SH 65, MP 29

Location: Above State Highway 65, near Scales Lake No. 2

Surveyed Date: N/A

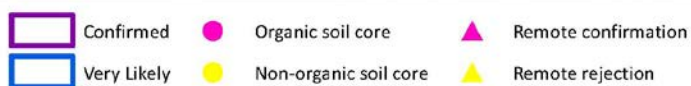
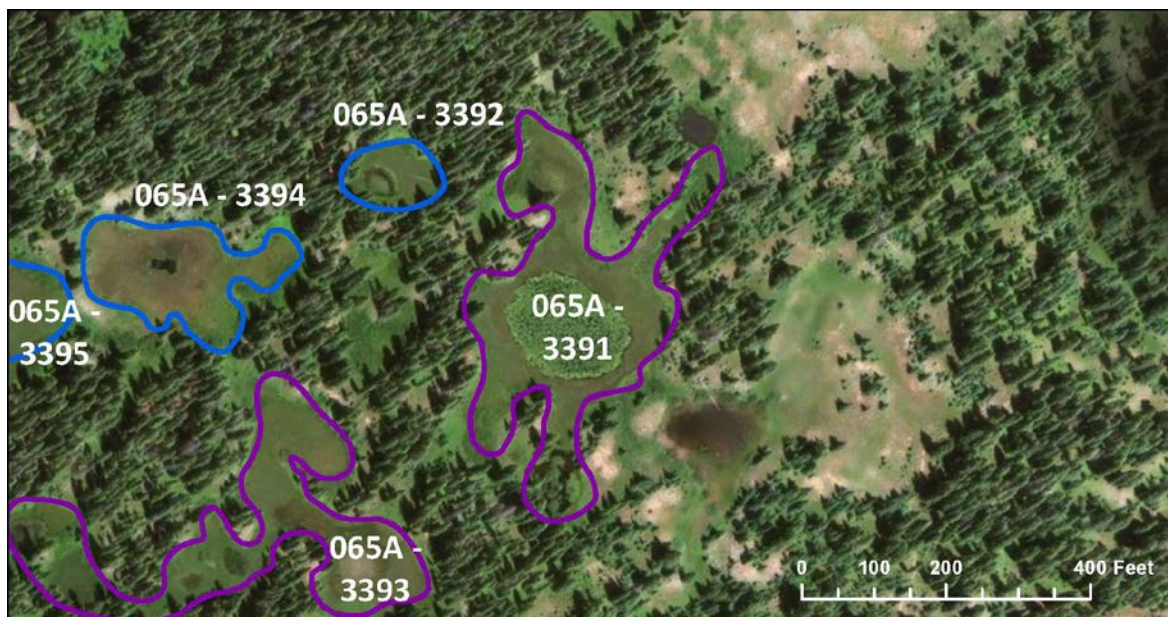
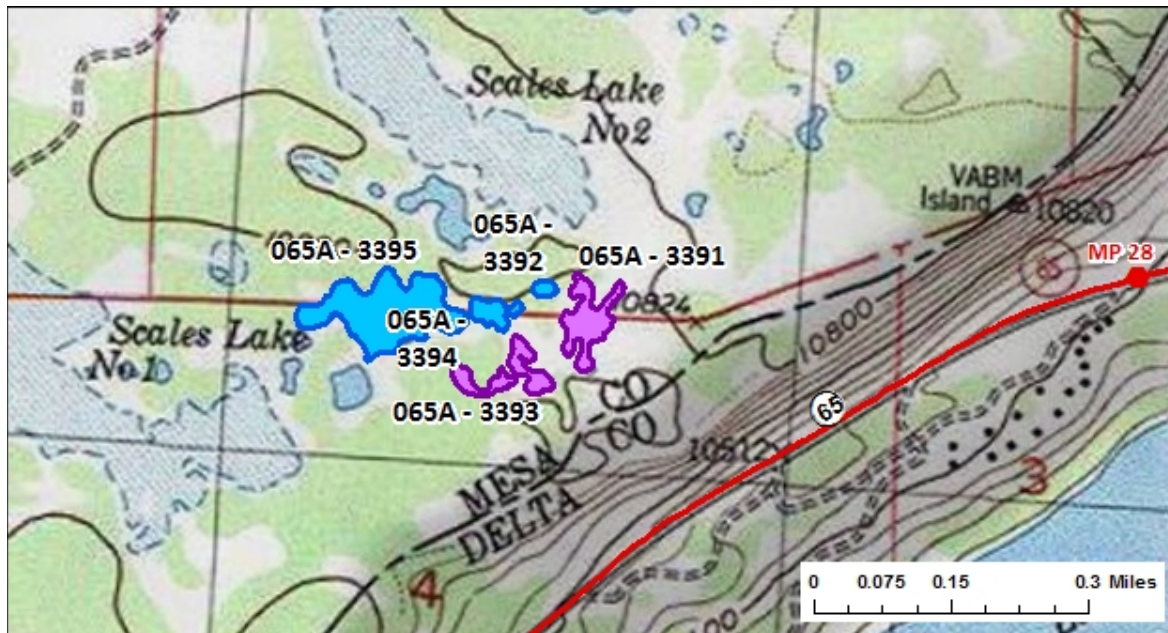
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,804 ft

Size: 2.01 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Not surveyed. However, polygon includes area identified as a fen from previous survey (Austin 2008).

Fen Polygon: 065A - 3393

Nearest Milepoint: SH 65, MP 29

Location: Above State Highway 65, near Scales Lake No. 2

Surveyed Date: N/A

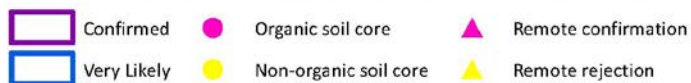
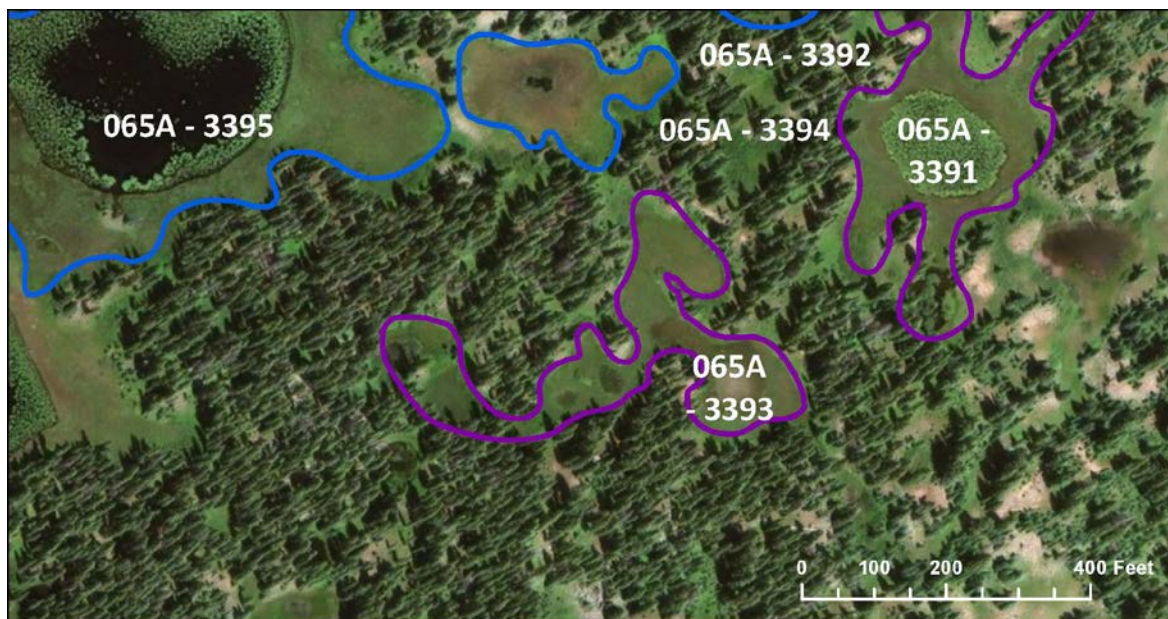
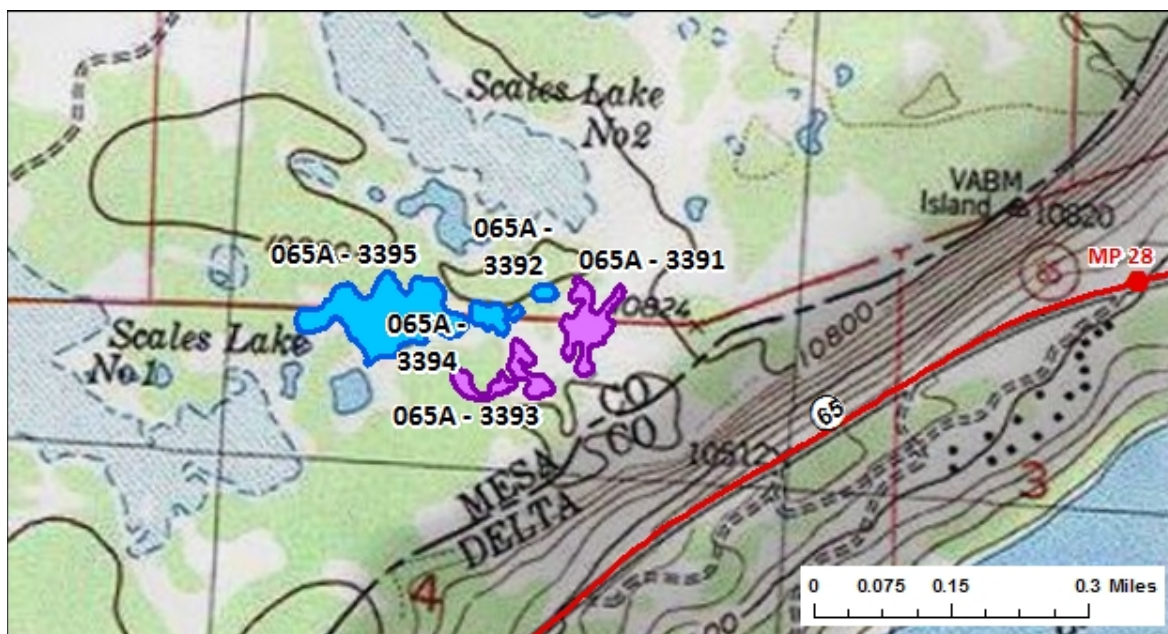
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,801 ft

Size: 1.55 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Not surveyed. However, polygon includes area identified as a fen from previous survey (Austin 2008).

Fen Polygon: 065A - 3402

Nearest Milepoint: SH 65, MP 32

Location: Below Grand Mesa Reservoir Number 8

Surveyed Date: 8/25/2017

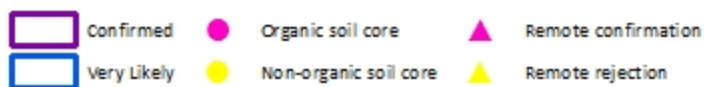
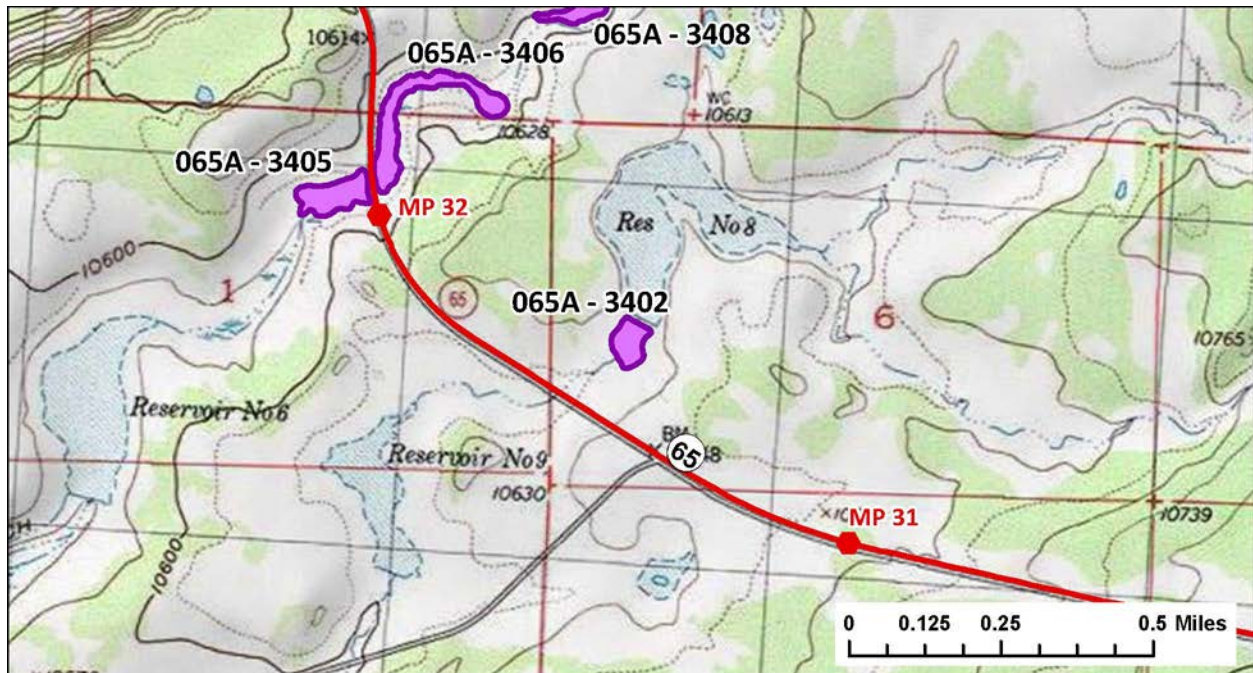
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,640 ft

Size: 2.21 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Fen is a wet graminoid meadow with patches of low *Salix planifolia*. High water table. Fen lies below reservoir impoundment.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAVE6	<i>Carex vesicaria</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CAJO	<i>Carex jonesii</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5

Fen Polygon: 065A - 3405

Nearest Milepoint: SH 65, MP 32

Location: Near Grand Mesa Reservoir Number 6

Surveyed Date: 8/25/2017

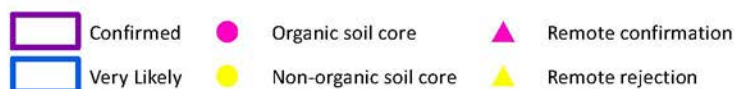
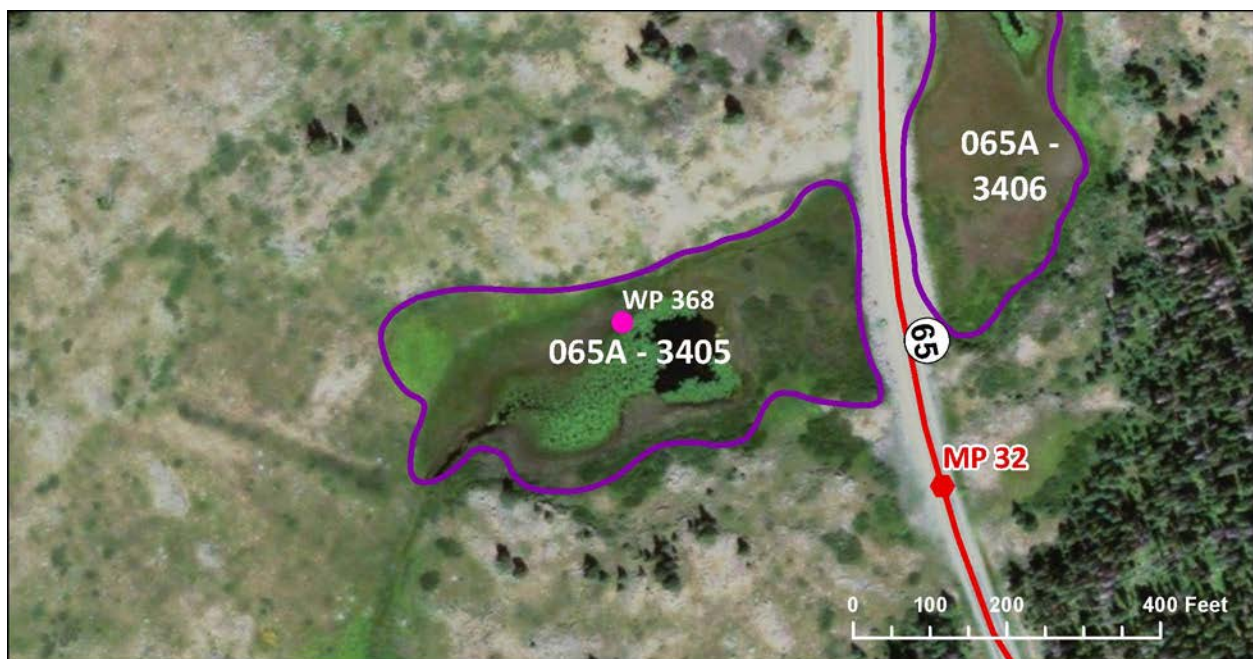
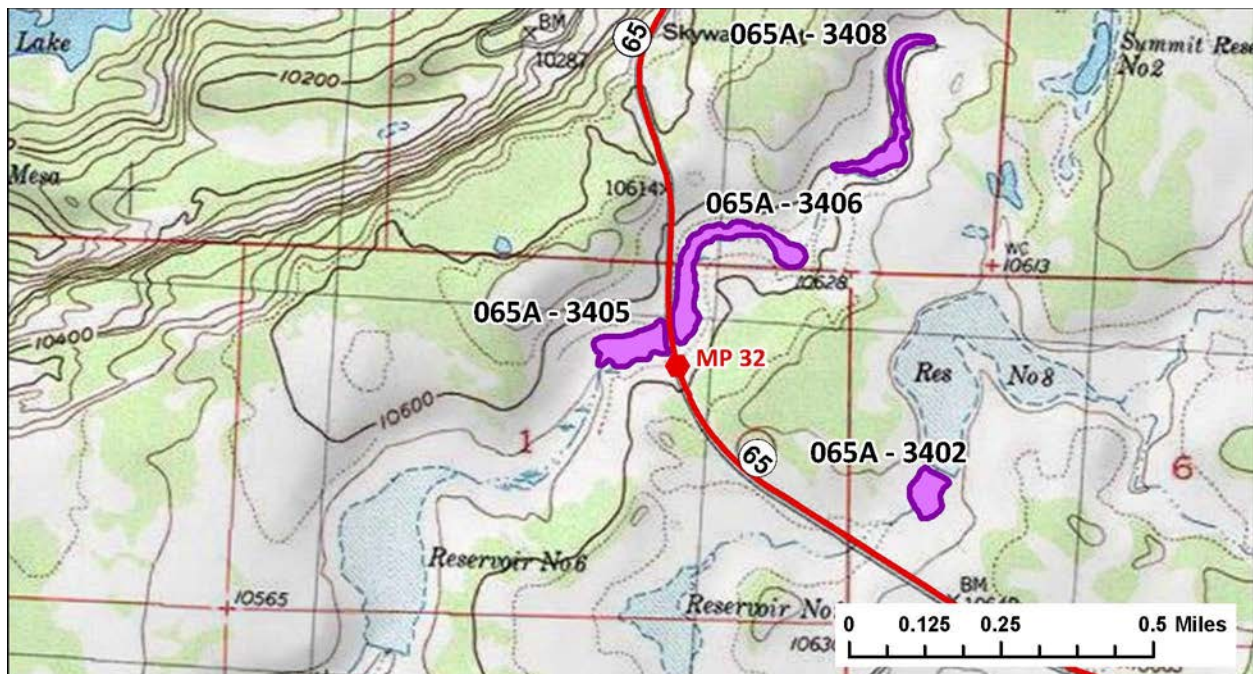
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,581 ft

Size: 3.43 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Quaking fen. Very wet sedge shoulder of a pond. Difficult to extract 40 cm of soil due to standing water and soil being mucky peat.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
NULUP	<i>Nuphar lutea ssp. polysepala</i>	5	7.5
CAREX	<i>Carex</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
ELEOC	<i>Eleocharis</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
VIOLA	<i>Viola</i>	2	0.5

Fen Polygon: 065A - 3406

Nearest Milepoint: SH 65, MP 32

Location: Near the turnoff for Scales Lake Rd on SH 65

Surveyed Date: 8/25/2017

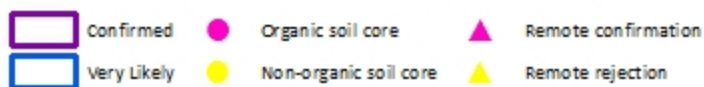
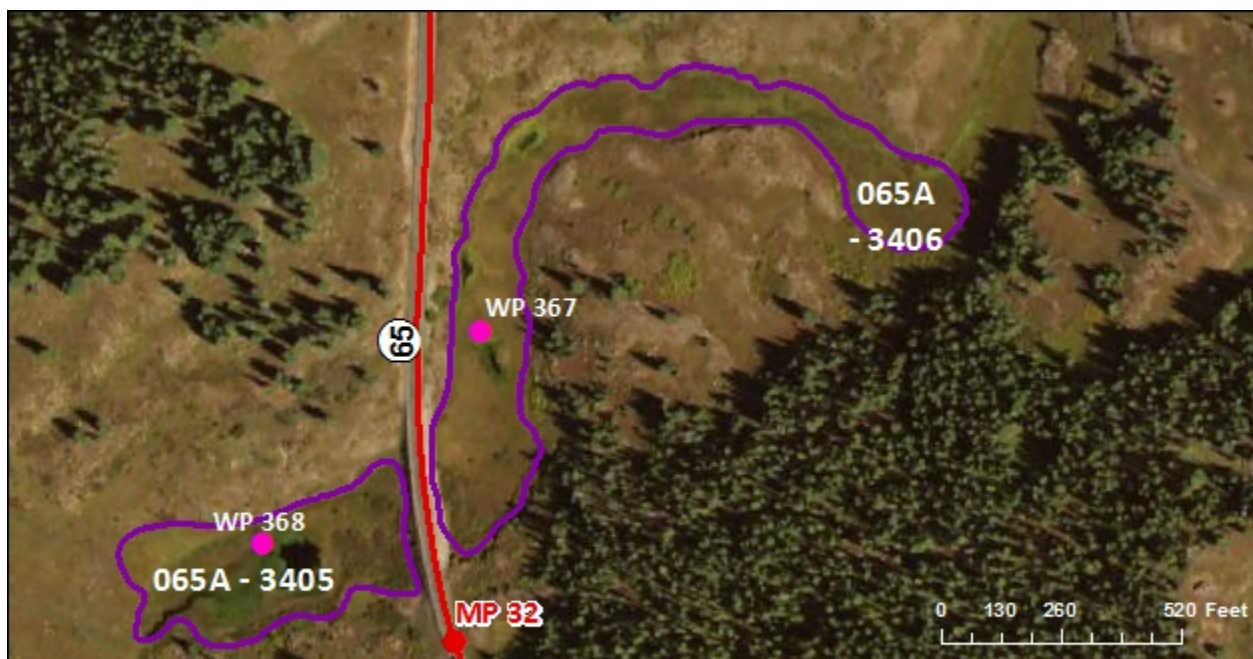
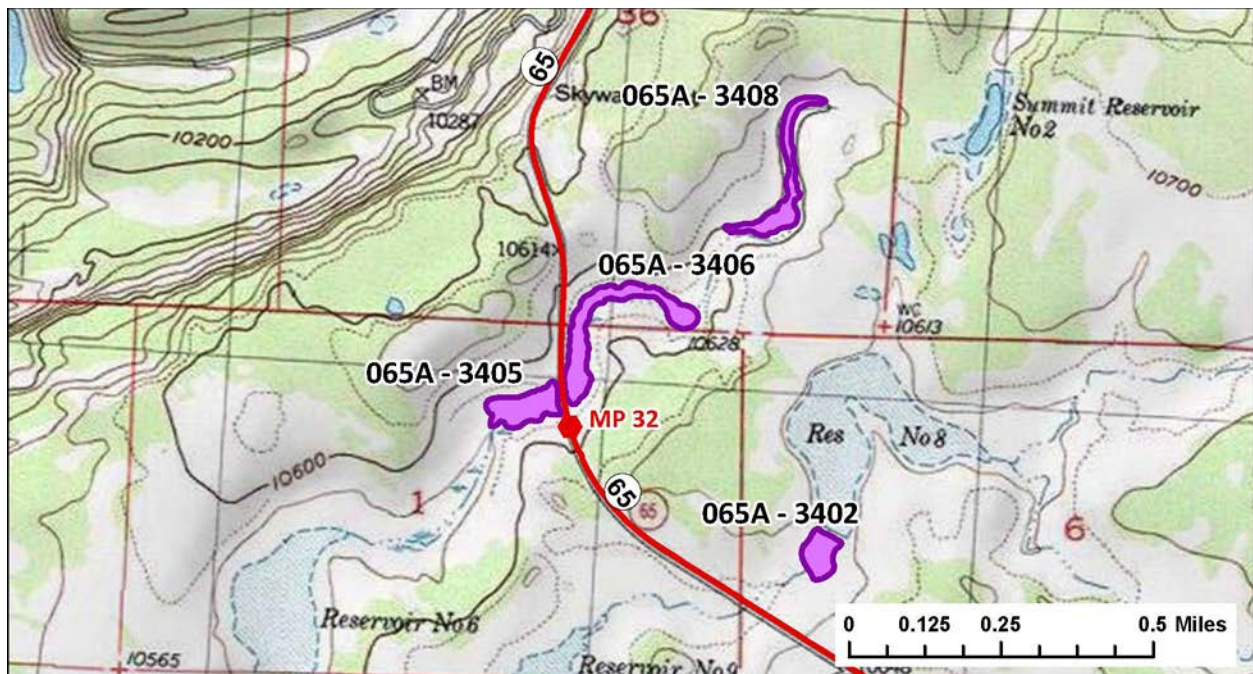
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,584 ft

Size: 6.10 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Large wet swath of sedge and grasses in valley bottom, occasional pools of standing water with water lilies. Entire soil core is mucky peat.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
CALAM	<i>Calamagrostis</i>	6	17.5
NULUP	<i>Nuphar lutea ssp. polysepala</i>	6	17.5
ELEOC	<i>Eleocharis</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 065A - 3408

Nearest Milepoint: SH 65, MP 32

Location: Near Scales Lake Road

Surveyed Date: N/A

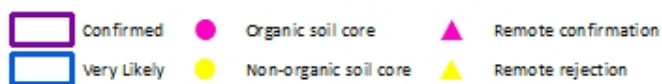
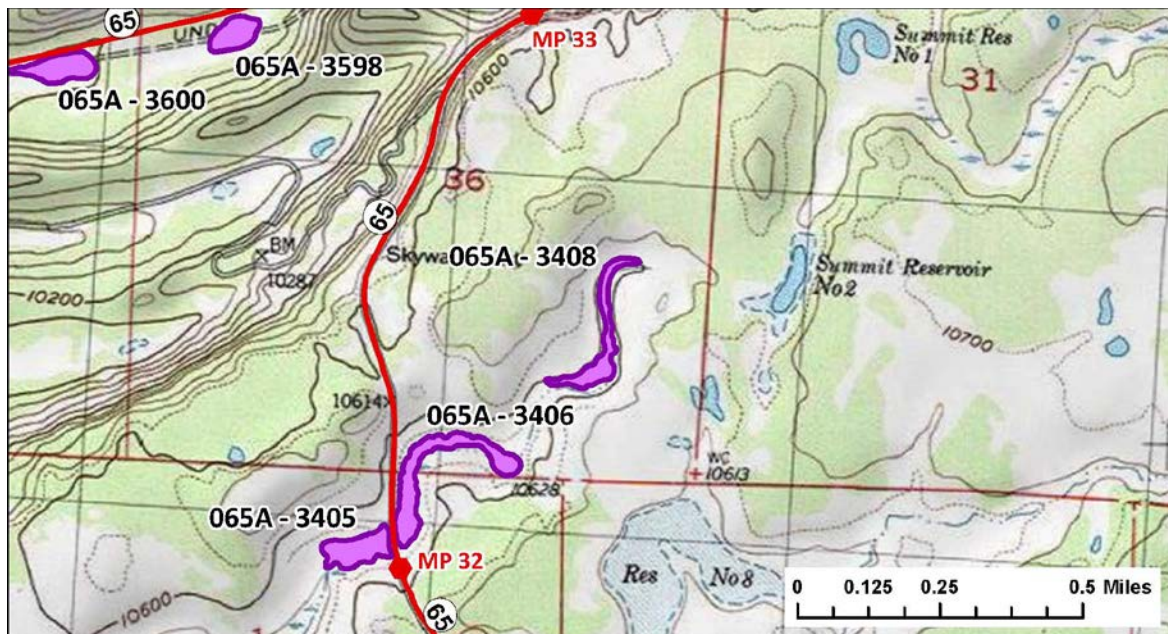
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,604 ft

Size: 3.75 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Not surveyed. However, polygon includes an area identified as a fen from previous survey (Austin 2008).

Fen Polygon: 065A - 3592

Nearest Milepoint: SH 65, MP 34

Location: Near Griffith Lake

Surveyed Date: 8/25/2017

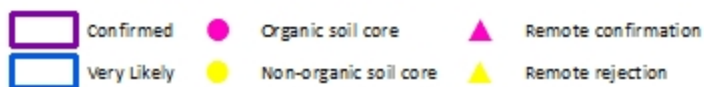
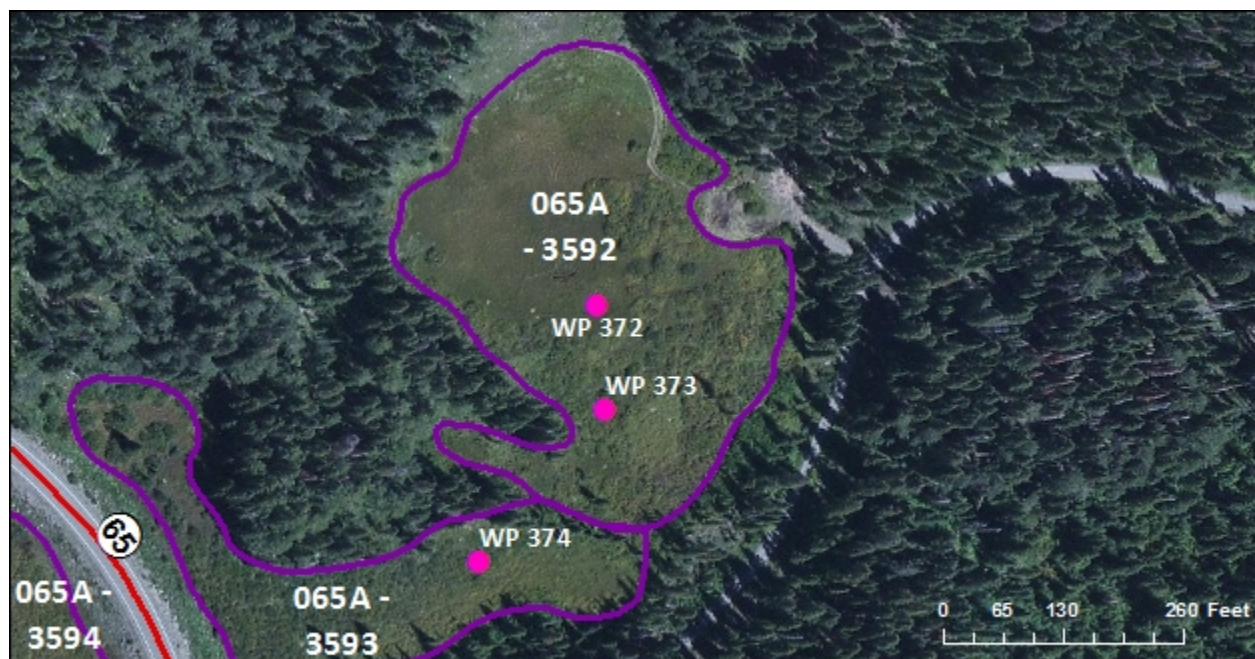
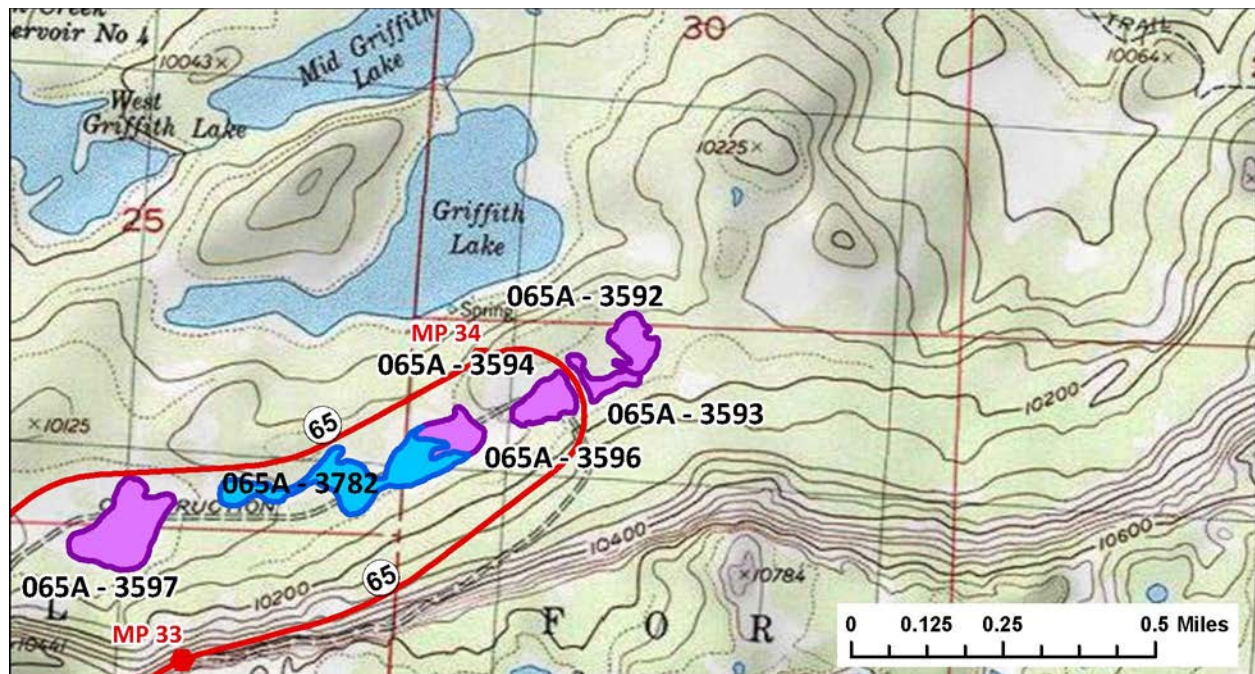
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,177 ft

Size: 3.21 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Large sedge meadow surrounded by *Salix* thickets.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CALAM	<i>Calamagrostis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COPA28	<i>Comarum palustre</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5

Fen Polygon: 065A - 3593

Nearest Milepoint: SH 65, MP 34

Location: Near Griffith Lake

Surveyed Date: 8/25/2017

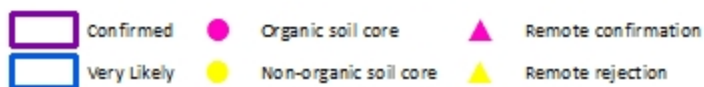
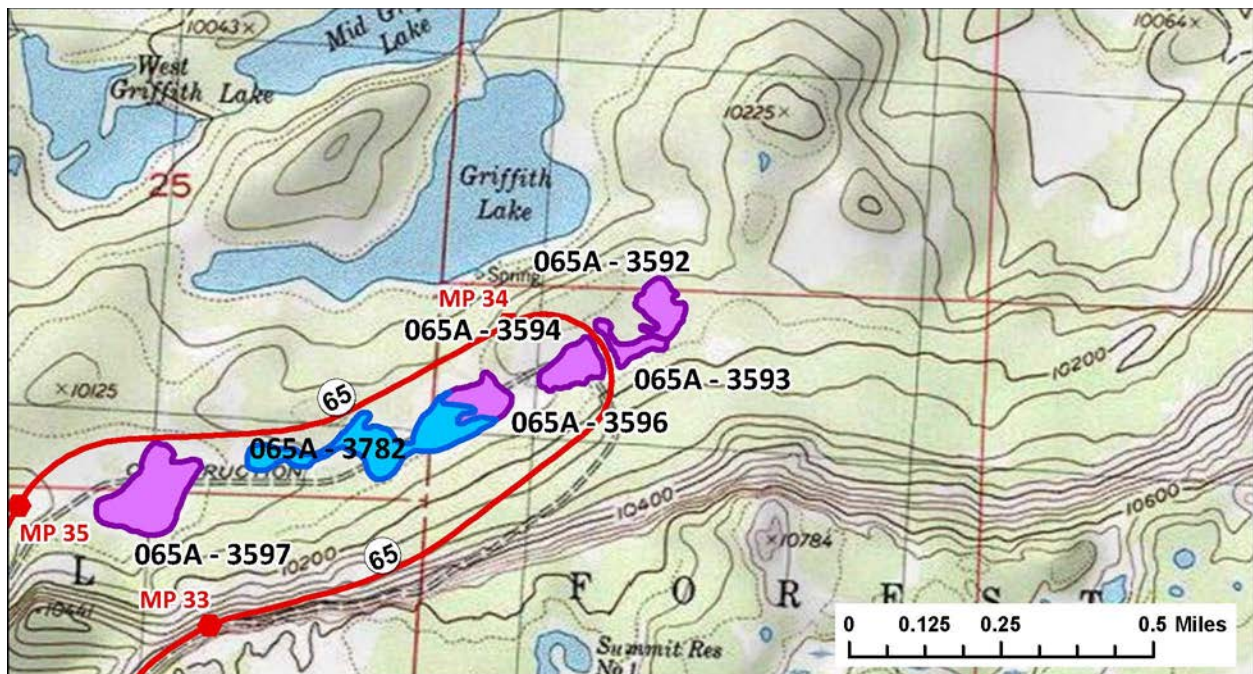
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,184 ft

Size: 1.82 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Thick willow drainage fen with patches of *Carex* meadow and understory. No species list collected.

Site Photos



Fen Polygon: 065A - 3594

Nearest Milepoint: SH 65, MP 34

Location: Within a sharp bend of Colorado State Hwy 65

Surveyed Date: 8/25/2017

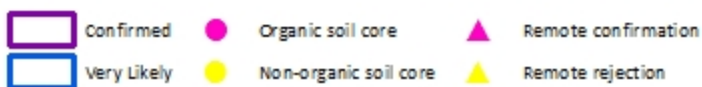
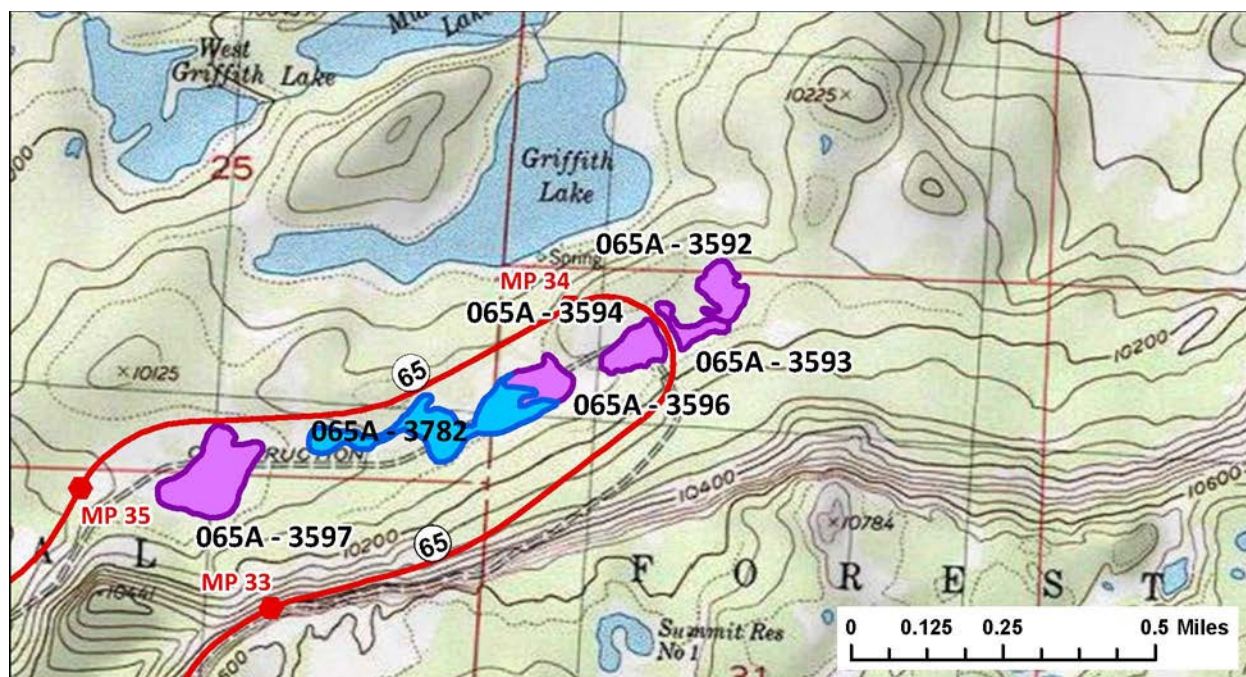
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,174 ft

Size: 3.53 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Wet graminoid fen meadow with stands of *Salix planifolia*. Core is entirely peat. Fen is near an old ditch that runs towards elbow in highway.

Site Photos



Site Photos

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
ELEOC	<i>Eleocharis</i>	7	37.5
CASI2	<i>Carex simulata</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COPA28	<i>Comarum palustre</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
F-ASTER	<i>Asteraceae</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
EQAR	<i>Equisetum arvense</i>	2	0.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	2	0.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5
TAOF	<i>Taraxacum officinale</i>	2	0.5

Fen Polygon: 065A - 3596

Nearest Milepoint: SH 65, MP 34

Location: Within a sharp bend of Colorado State Hwy 65

Surveyed Date: 8/25/2017

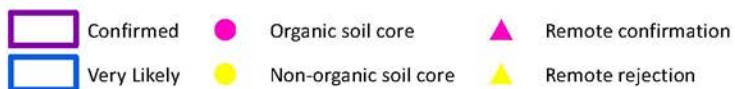
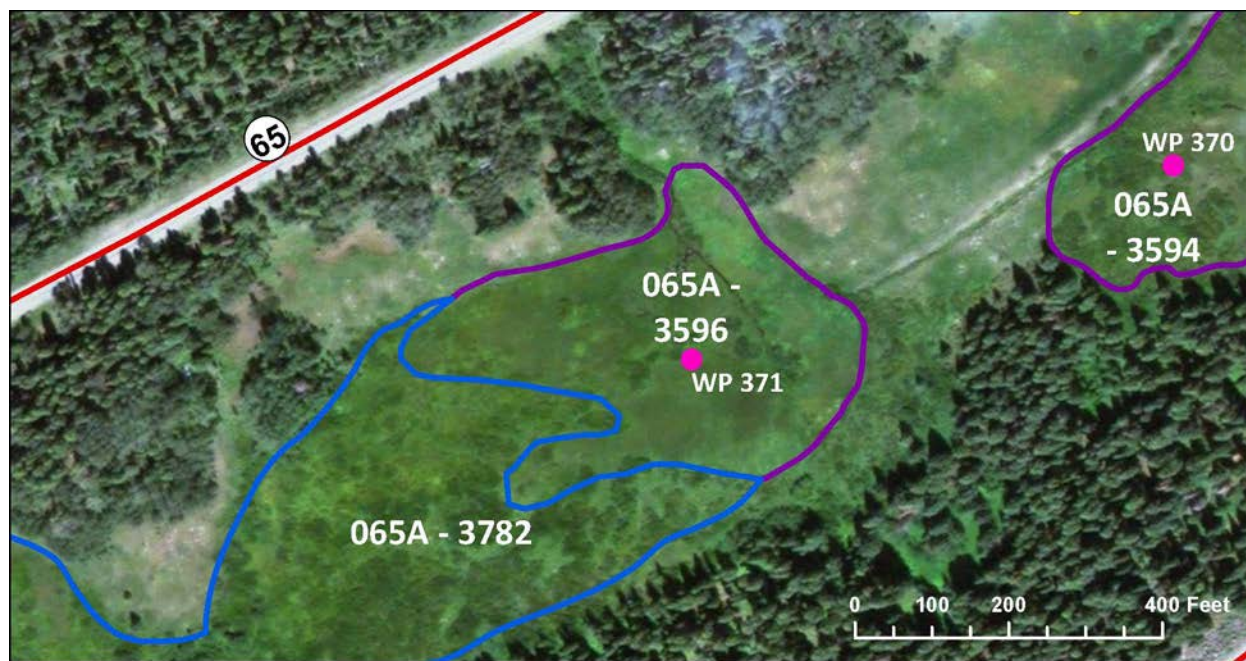
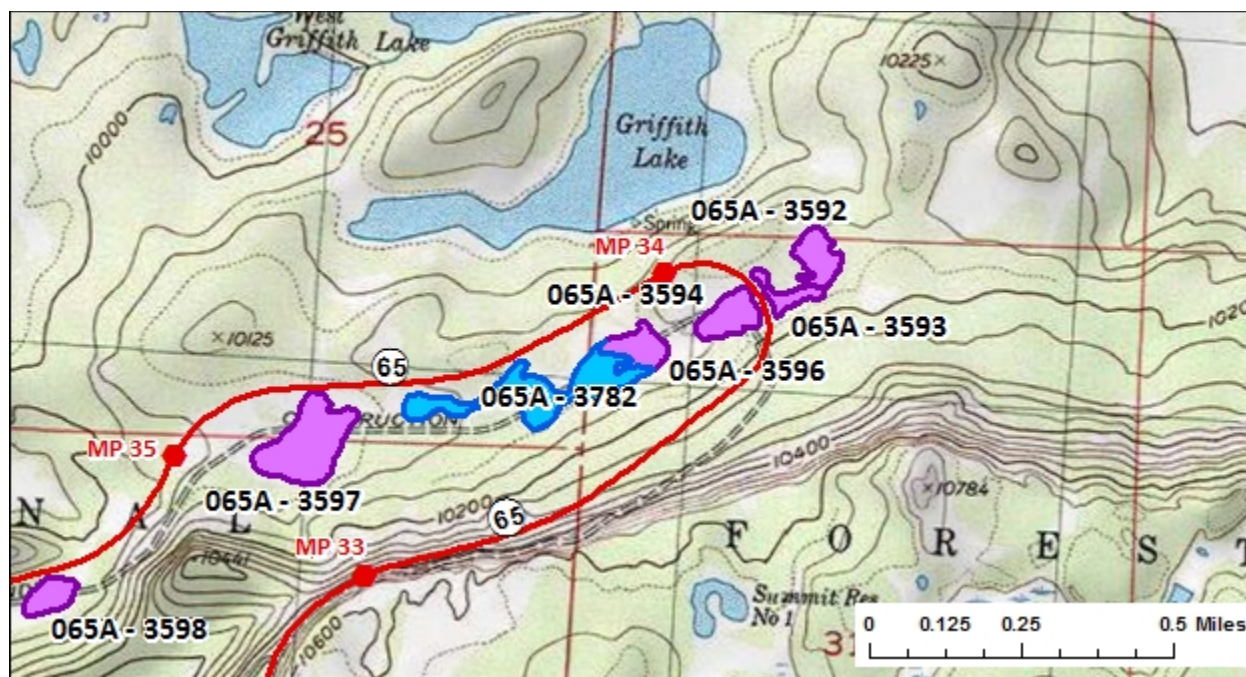
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,144 ft

Size: 3.24 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: *Carex utriculata* and *Calamagrostis* fen with patches of *Salix planifolia*. Braided with many small channels.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CALAM	<i>Calamagrostis</i>	6	17.5
CAREX	<i>Carex</i>	5	7.5

Fen Polygon: 065A - 3597

Nearest Milepoint: SH 65, MP 35

Location: Adjacent to Colorado State Highway 65

Surveyed Date: 8/26/2017

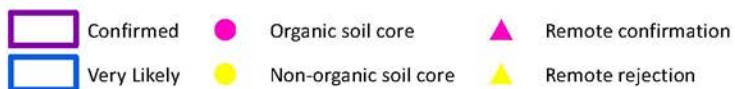
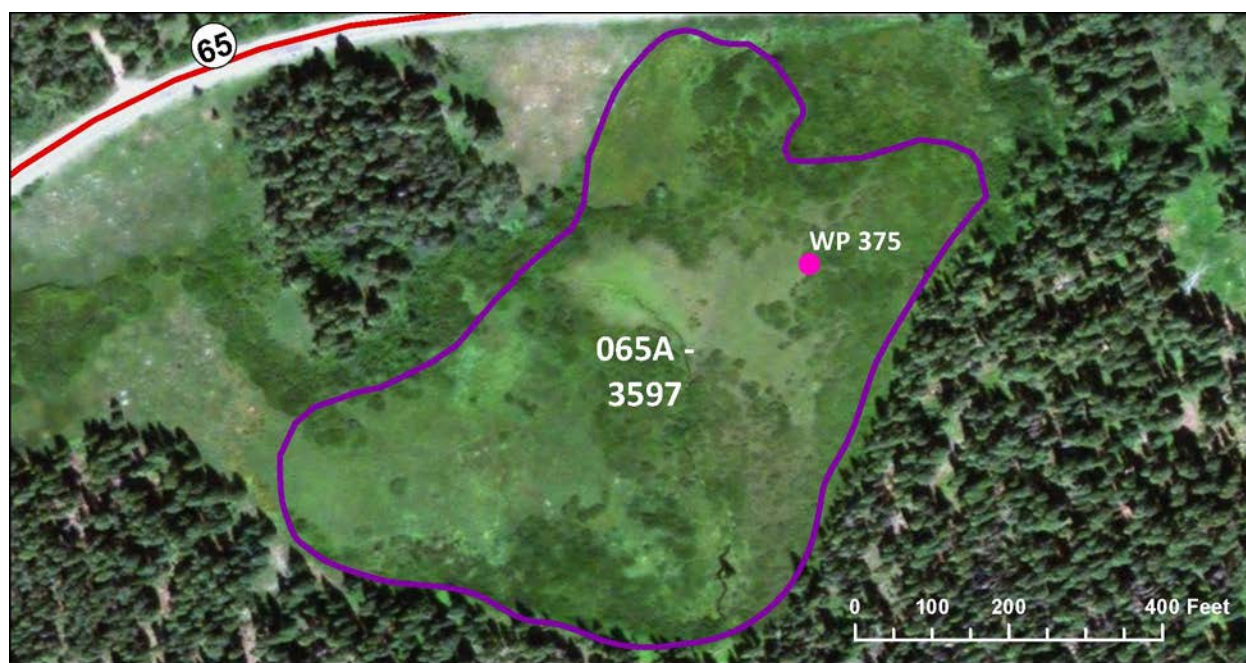
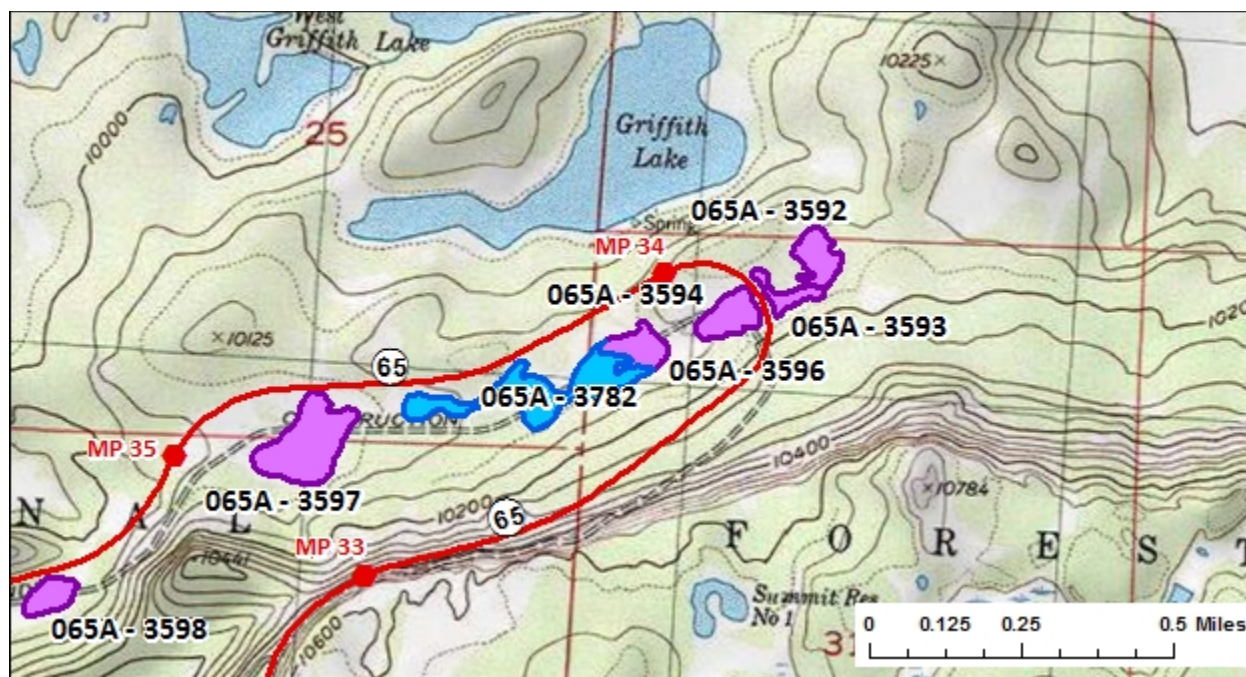
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,098 ft

Size: 9.08 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



Description: Very dense *Salix planifolia* thicket, with some *Carex* understory. Vegetation didn't look indicative of a fen, but soil has peat to 40 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	9	85
CAUT	<i>Carex utriculata</i>	7	37.5
CALAM	<i>Calamagrostis</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5

Fen Polygon: 065A - 3598

Nearest Milepoint: SH 65, MP 35

Location: Adjacent to Colorado State Highway 65

Surveyed Date: 8/26/2017

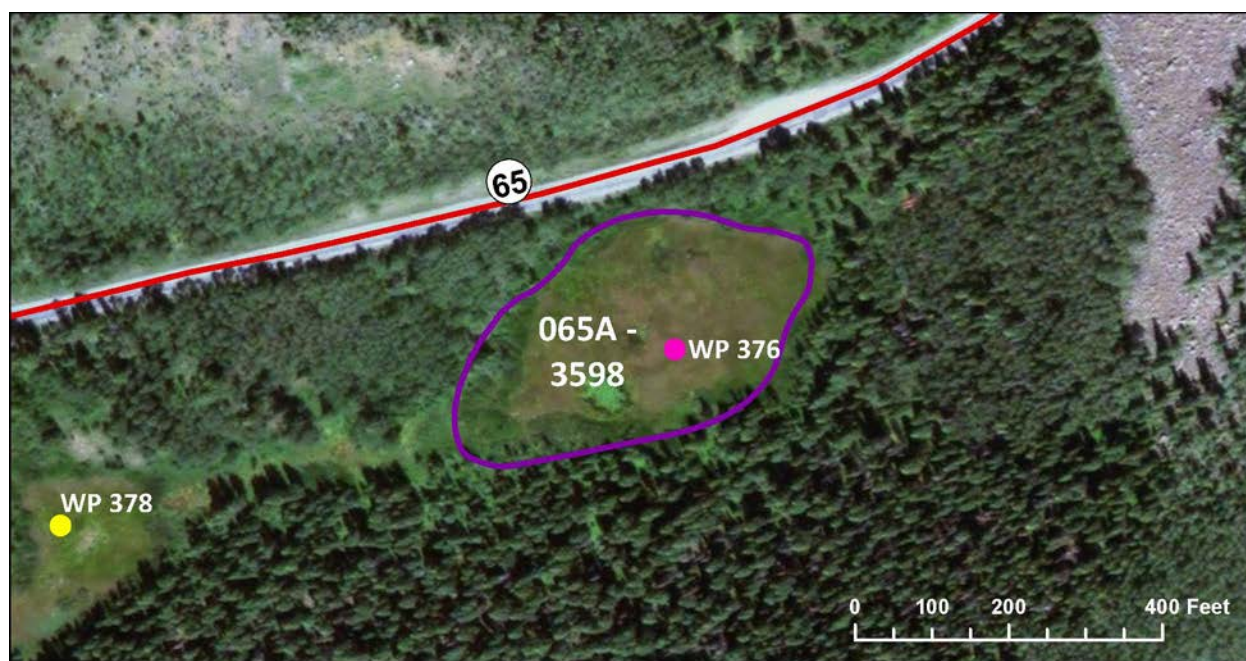
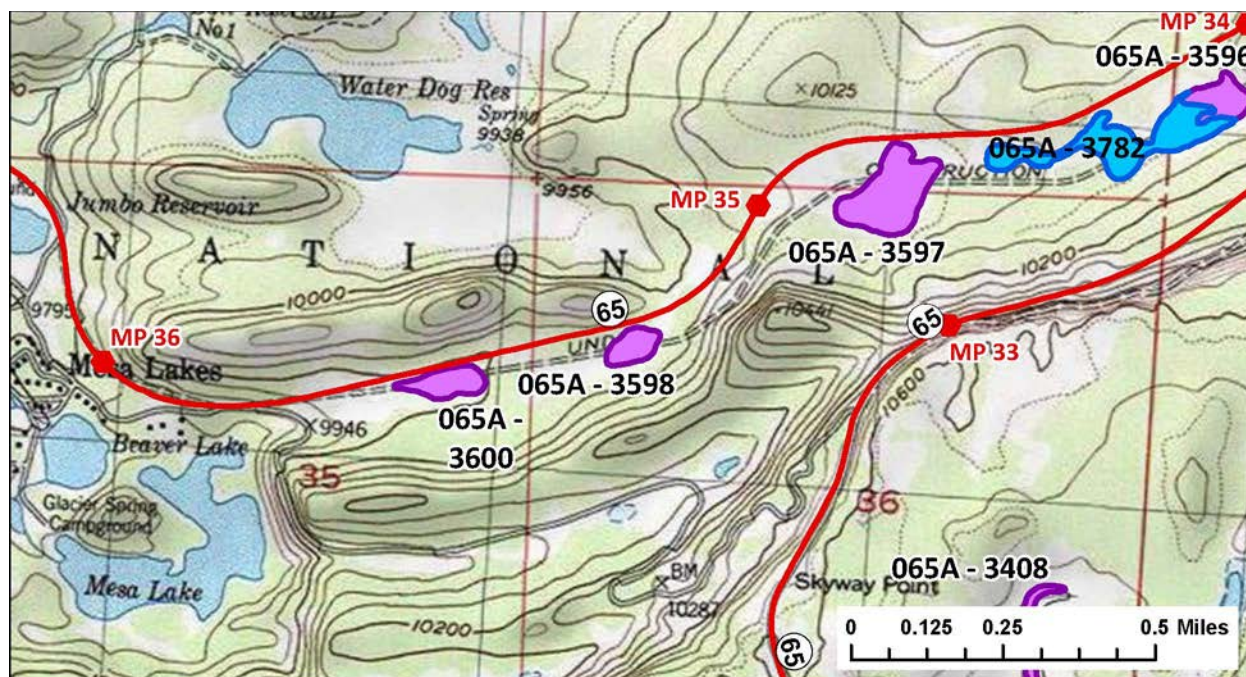
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,036 ft

Size: 2.42 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest



- | | | |
|--|---|--|
| Confirmed | ● Organic soil core | ▲ Remote confirmation |
| Very Likely | ● Non-organic soil core | ▲ Remote rejection |



Description: Large wet sedge meadow fen adjacent to highway at edge of woods. Core is peat all the way through.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
CAVE6	<i>Carex vesicaria</i>	6	17.5

Fen Polygon: 065A - 3600

Nearest Milepoint: SH 65, MP 36

Location: Adjacent to Colorado State Highway 65

Surveyed Date: 8/26/2017

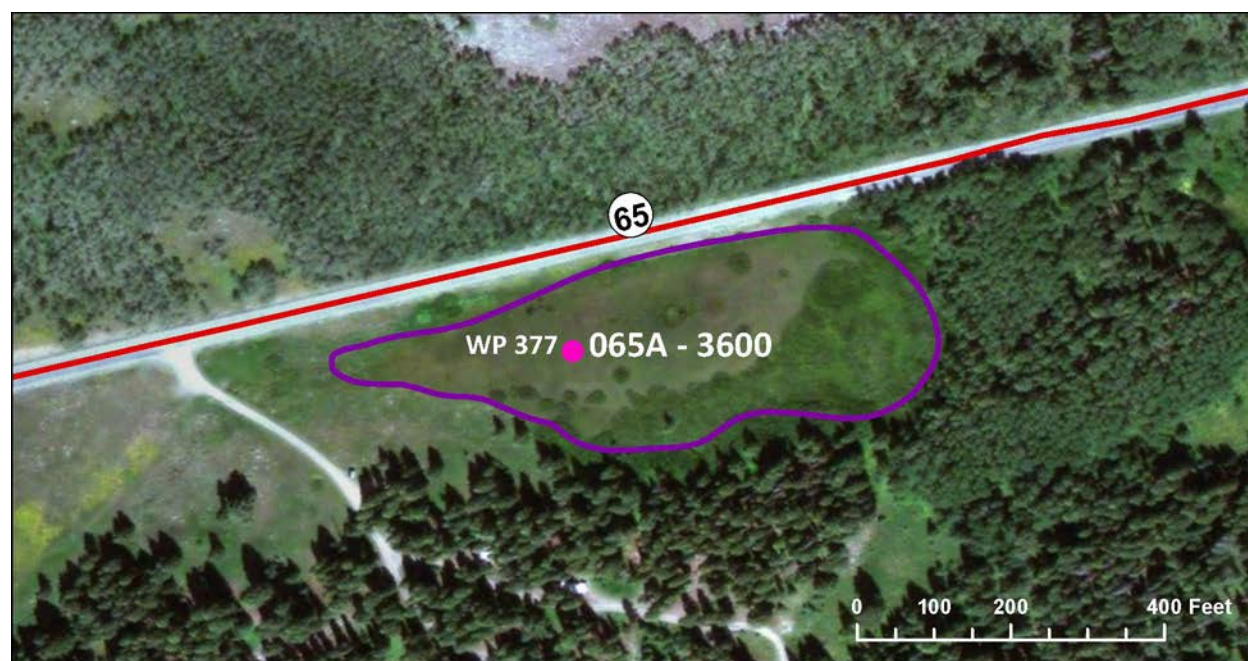
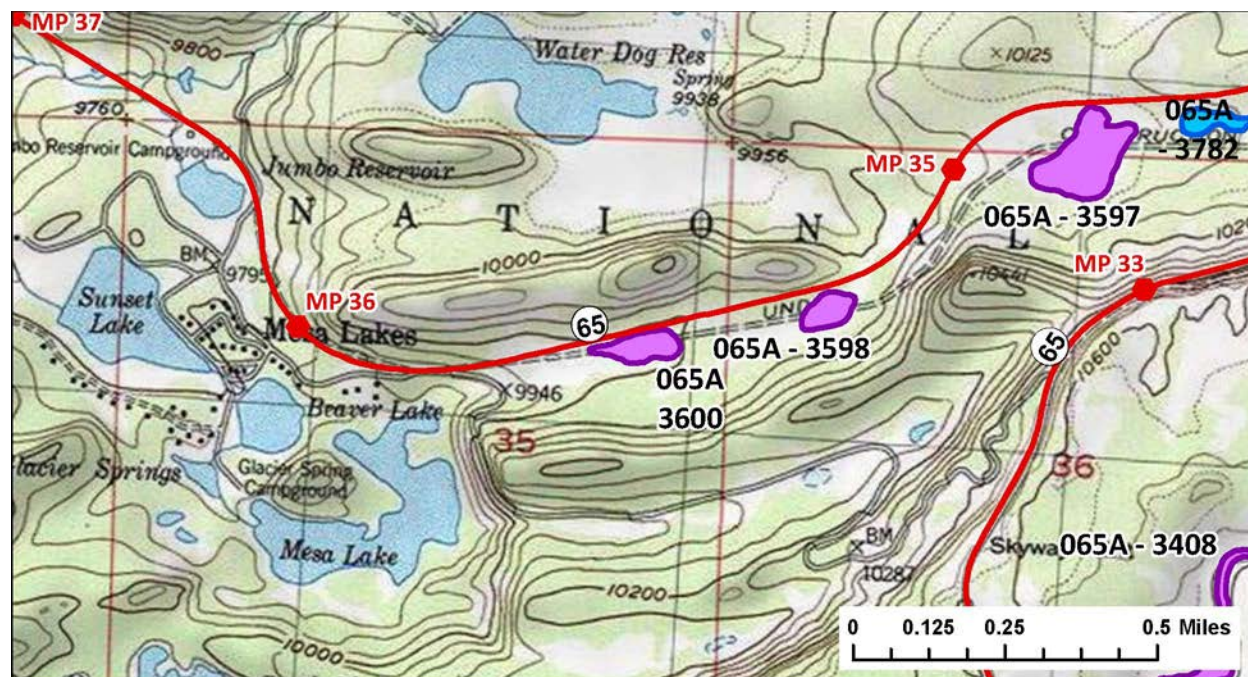
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,003 ft

Size: 3.20 acres

ROW Status: Public Easement

Primary Landowner: Grand Mesa National Forest

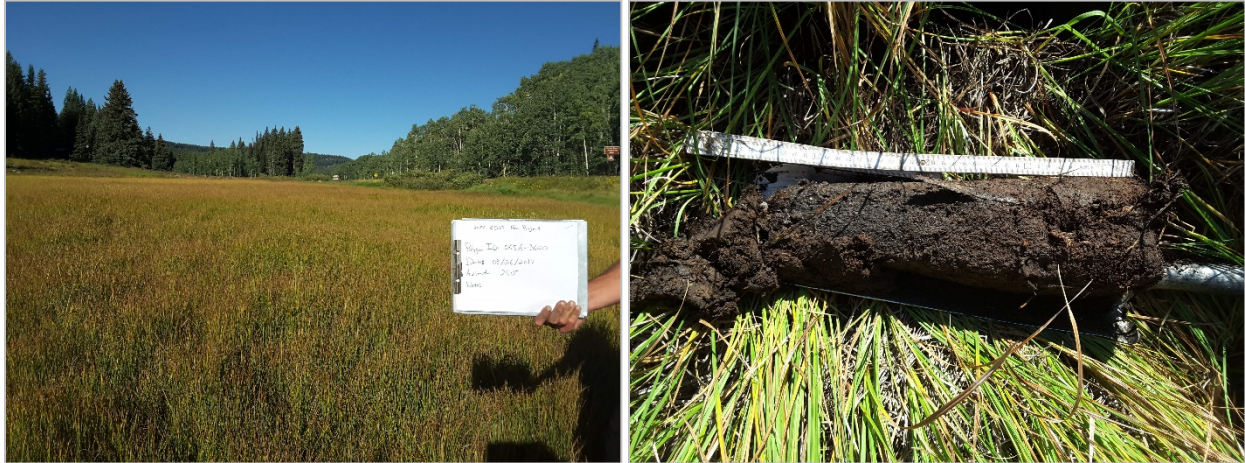


- | | | |
|--|---|--|
| Confirmed | ● Organic soil core | ▲ Remote confirmation |
| Very Likely | ● Non-organic soil core | ▲ Remote rejection |



Description: Large sedge and grass fen meadow adjacent to the highway. Stands of *Salix* on edge of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CALEL3	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
ALOPE	<i>Alopecurus</i>	4	3.5
CALAM	<i>Calamagrostis</i>	4	3.5

Fen Polygon: 070A - 0452

Nearest Milepoint: I-70, MP 193

Location: Along I-70, near Copper Mountain Ski Resort

Surveyed Date: 8/11/2017

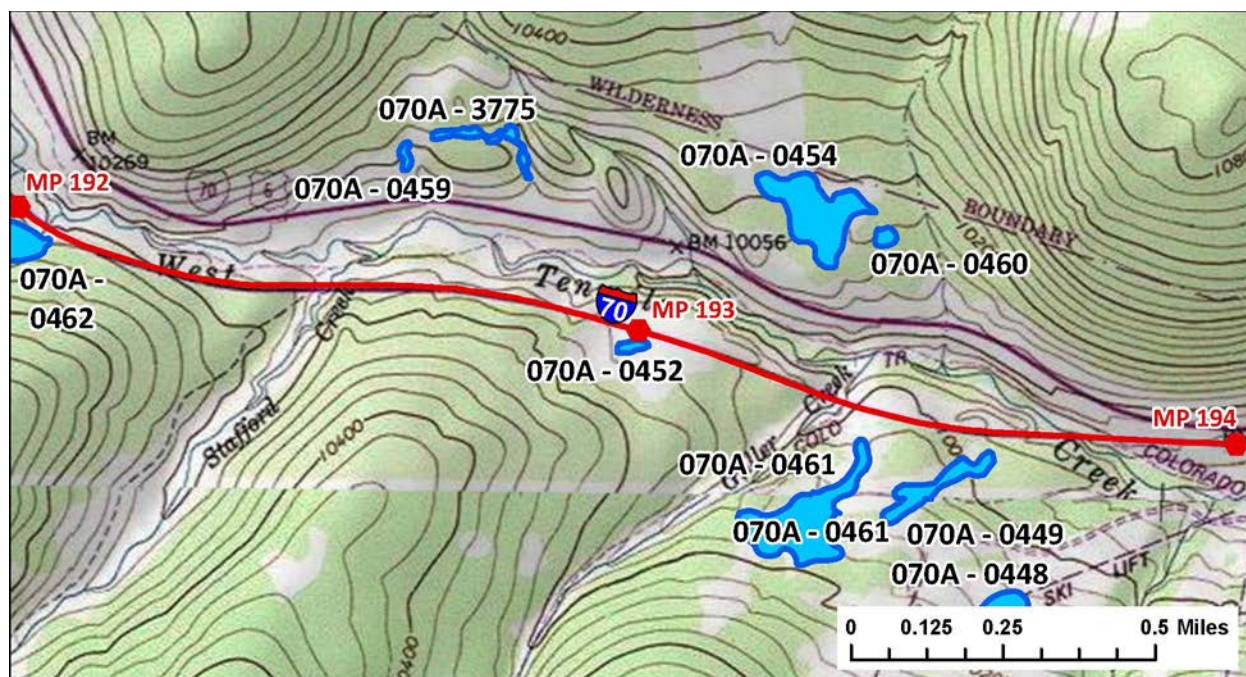
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,121 ft

Size: 0.50 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Potential fen; listed as fen in previous survey (Jones et al. 2009). However, the soil core extracted OM to 30 cm, below which was sand. Site is <20 m from the hwy. Slightly sloped. The water table is 12 cm below the surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	5	7.5
JUME3	<i>Juncus mertensianus</i>	5	7.5
CABU6	<i>Carex buxbaumii</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
BRAR20	<i>Brexa arvensis</i>	2	0.5
CAAU3	<i>Carex aurea</i>	2	0.5
F-BRASS	<i>Brassicaceae</i>	2	0.5
FRVEB2	<i>Fragaria vesca ssp. bracteata</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
PHPR3	<i>Phleum pratense</i>	2	0.5
PICOL	<i>Pinus contorta var. latifolia</i>	2	0.5
POHI6	<i>Potentilla hippiana</i>	2	0.5
ASFO	<i>Aster foliaceus</i>	1	0.1
ERIGE2	<i>Erigeron</i>	1	0.1
GEMAP	<i>Geum macrophyllum var. perincisum</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
GETH	<i>Gentianopsis thermalis</i>	1	0.1
MIOD2	<i>Micranthes odontoloma</i>	1	0.1
SOCA6	<i>Solidago canadensis</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1
TRIFO	<i>Trifolium</i>	1	0.1

Fen Polygon: 070A - 0462

Nearest Milepoint: I-70, MP 192

Location: Adjacent to I-70

Surveyed Date: 8/11/2017

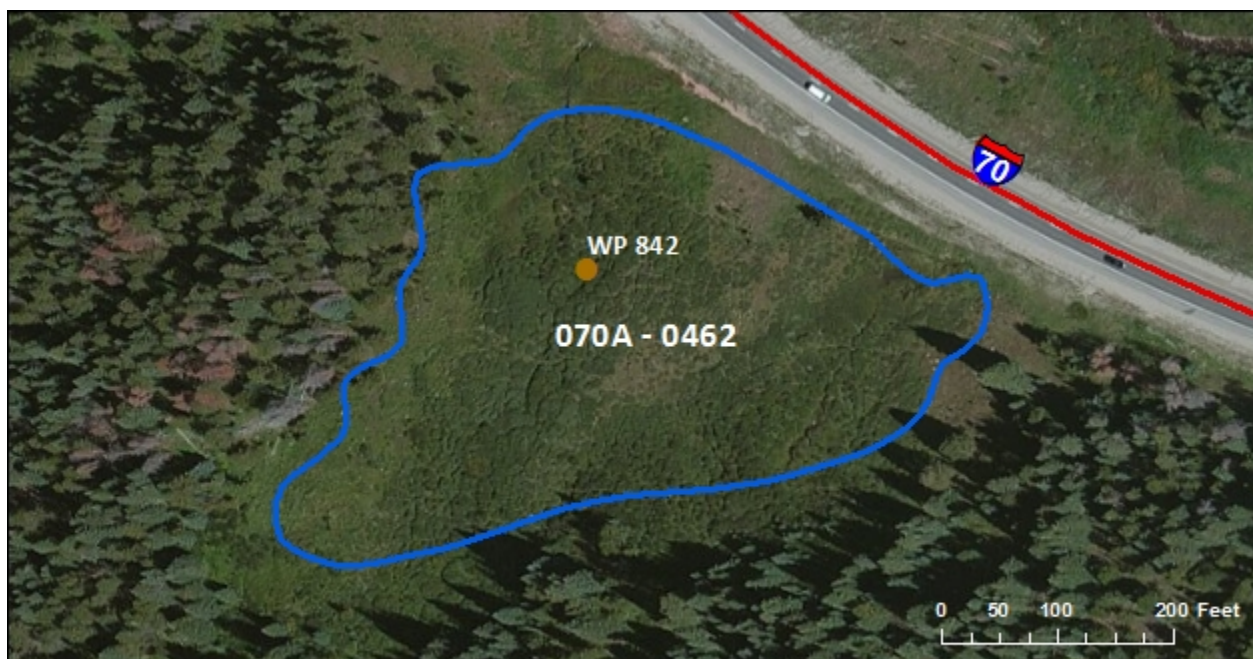
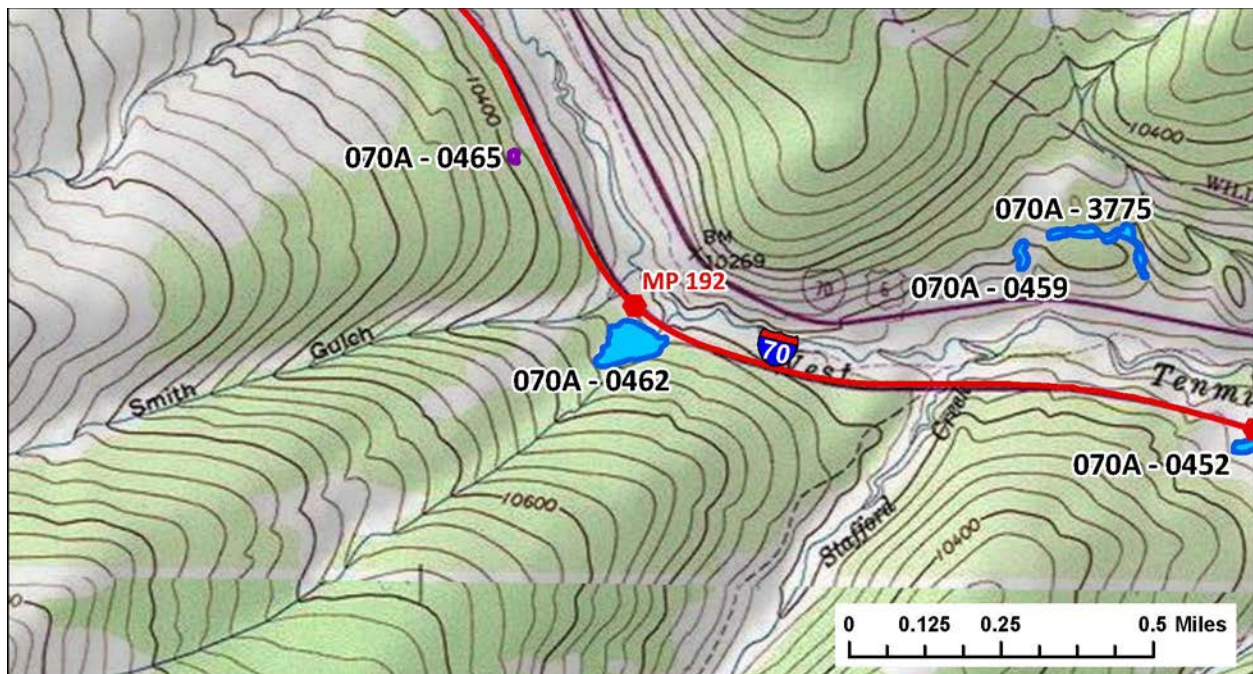
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,289 ft

Size: 3.34 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Probable fen. Listed as a fen in previous survey (Jones et al. 2009). However, soil core extracted 20 cm OM, followed by red clayey loam. Sloping fen, about 25 m from I-70. A stream runs through the site. The site is dominated by *Salix* species and *Betula glandulosa*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
SAWO	<i>Salix wolfii</i>	5	7.5
VAED	<i>Valeriana edulis</i>	5	7.5
F-APIAC	<i>Apiaceae</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
ACLA5	<i>Achillea lanulosa</i>	3	1.5
CABE2	<i>Carex bebbii</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
ALPR3	<i>Alopecurus pratensis</i>	2	0.5
ASTRA	<i>Astragalus</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
CAREX	<i>Carex</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
LUZUL	<i>Luzula</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PHPR3	<i>Phleum pratense</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAHYD	<i>Saxifraga hyperborea ssp. debilis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
ASFO	<i>Aster foliaceus</i>	1	0.1
BEER	<i>Berula erecta</i>	1	0.1
BIVI2	<i>Bistorta vivipara</i>	1	0.1
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
ERIGE2	<i>Erigeron</i>	1	0.1
GEMAP	<i>Geum macrophyllum var. perincisum</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1
POTEN	<i>Potentilla</i>	1	0.1
SETR	<i>Senecio triangularis</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 070A - 0465

Nearest Milepoint: I-70, MP 192

Location: Adjacent to I-70

Surveyed Date: 8/11/2017

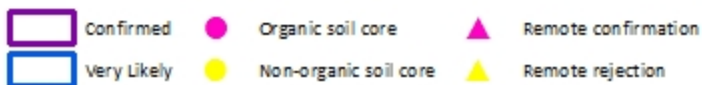
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,420 ft

Size: 0.14 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Very small terraced fen. Drainage from fen runs down to the edge of the road. Completely surrounded by spruce-fir forest. Water table 10 cm below surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
SETR	<i>Senecio triangularis</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
EQAR	<i>Equisetum arvense</i>	4	3.5
CAREX	<i>Carex</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
PIPU	<i>Picea pungens</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
EREL9	<i>Erigeron elatior</i>	2	0.5
ERIGE2	<i>Erigeron</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. Subbiflorum</i>	2	0.5
LUZUL	<i>Luzula</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
MIOD2	<i>Micranthes odontoloma</i>	2	0.5
MIOR2	<i>Micranthes oregana</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
EPILO	<i>Epilobium</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 070A - 0473

Nearest Milepoint: I-70, MP 191

Location: Between Eastbound and Westbound I-70, near W Tenmile Creek **Surveyed Date:** 8/10/2017

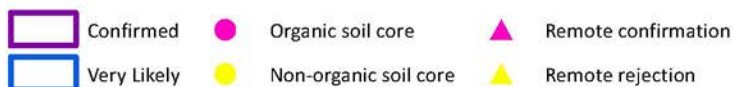
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,492 ft

Size: 0.58 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Greater than 40 cm of peat. Water table occurs 30 cm below surface. Sloping fen located between road and bike path. Dominated by *Betula glandulosa* and *Carex aquatilis*.

Site Photo



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	8	62.5
SAWO	<i>Salix wolfii</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
PEFL15	<i>Pentaphylloides floribunda</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
EQAR	<i>Equisetum arvense</i>	4	3.5
MIMUL	<i>Mimulus</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
CHDA2	<i>Chamerion danielsii</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
F-APIAC	<i>Apiaceae</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
POCAA4	<i>Polemonium caeruleum</i> ssp. <i>amygdalinum</i>	2	0.5
POPA2	<i>Poa palustris</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
ACCO4	<i>Aconitum columbianum</i>	1	0.1

Fen Polygon: 070A - 0474

Nearest Milepoint: I-70, MP 190

Location: Behind rest stop, across West Tenmile Creek

Surveyed Date: 8/10/2017

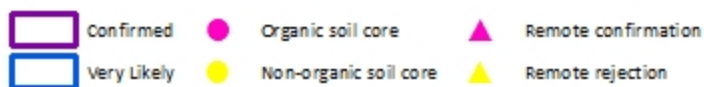
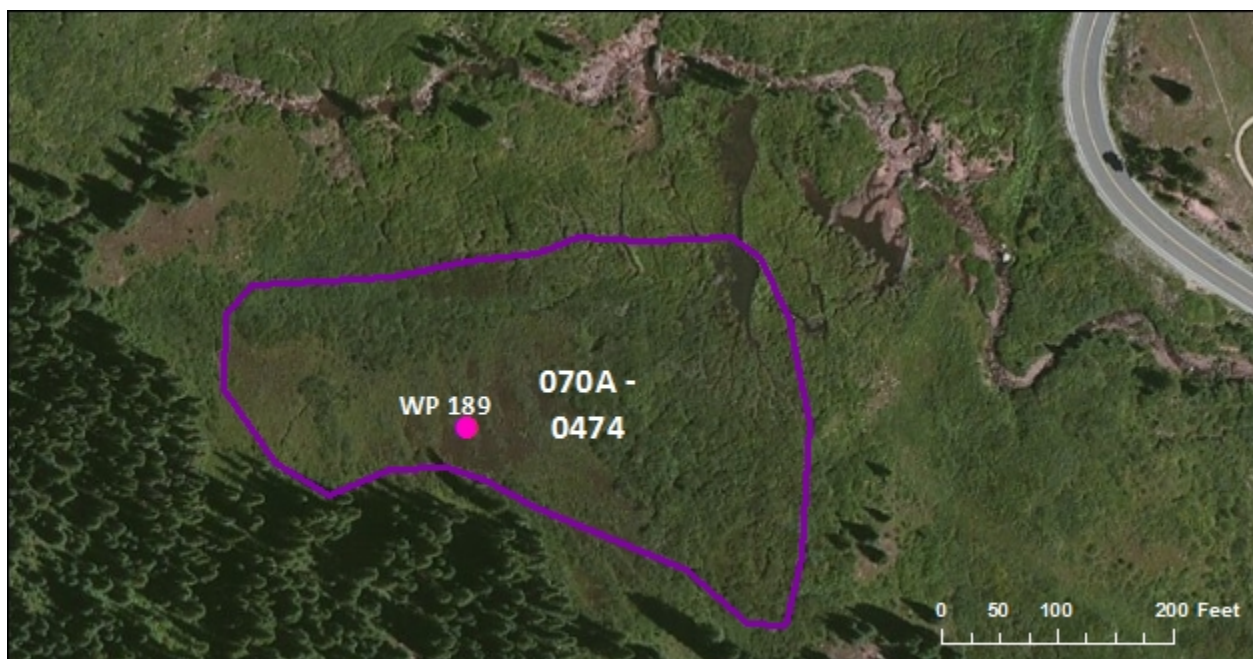
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,614 ft

Size: 2.53 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Mildly sloping fen meadow with patches of shrubby cinquefoil. High percentage of moss ground cover. Potential occurrence of *Kobresia simpliciuscula*. Documented in area previously, but not positively observed in this survey.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PEFL15	<i>Pentaphylloides floribunda</i>	7	37.5
THAL	<i>Thalictrum alpinum</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CACA12	<i>Carex capillaris</i>	4	3.5
CAMI6	<i>Carex microglochin</i>	4	3.5
ERGR8	<i>Eriophorum gracile</i>	4	3.5
F-CYPER	<i>Cyperaceae</i>	4	3.5
SEIN2	<i>Senecio integerrimus</i>	4	3.5
CAAQ	<i>Carex aquatilis</i>	3	1.5
CHNU4	<i>Chondrophylla nutans</i>	2	0.5
JUAL2	<i>Juncus albescens</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 070A - 2961

Nearest Milepoint: I-70, MP 190

Location: West shore of Black Lake

Surveyed Date: 8/10/2017

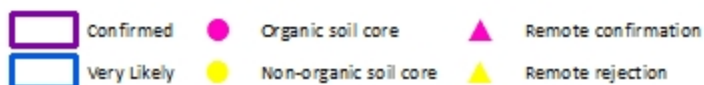
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,531 ft

Size: 0.21 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: 10 m off the north side of Black Lake. Sloped slightly towards the lake. Sedge and herbaceous meadow. Moderate recreational use in the area (guided fly fishing groups, mountain biking).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
CAUT	<i>Carex utriculata</i>	4	3.5
JULO	<i>Juncus longistylis</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
VESEH3	<i>Veronicastrum serpyllifolium</i> ssp. <i>humifusum</i>	4	3.5
CACA12	<i>Carex capillaris</i>	3	1.5
CAST36	<i>Calamagrostis stricta</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SAWO	<i>Salix wolfii</i>	3	1.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
CASI2	<i>Carex simulata</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
ELQU2	<i>Eleocharis quinqueflora</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
THAL	<i>Thalictrum alpinum</i>	2	0.5

Fen Polygon: 070A - 2962

Nearest Milepoint: I-70, MP 191

Location: Lies on trail behind rest stop

Surveyed Date: 8/10/2017

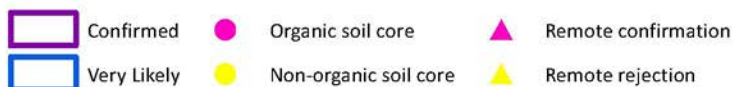
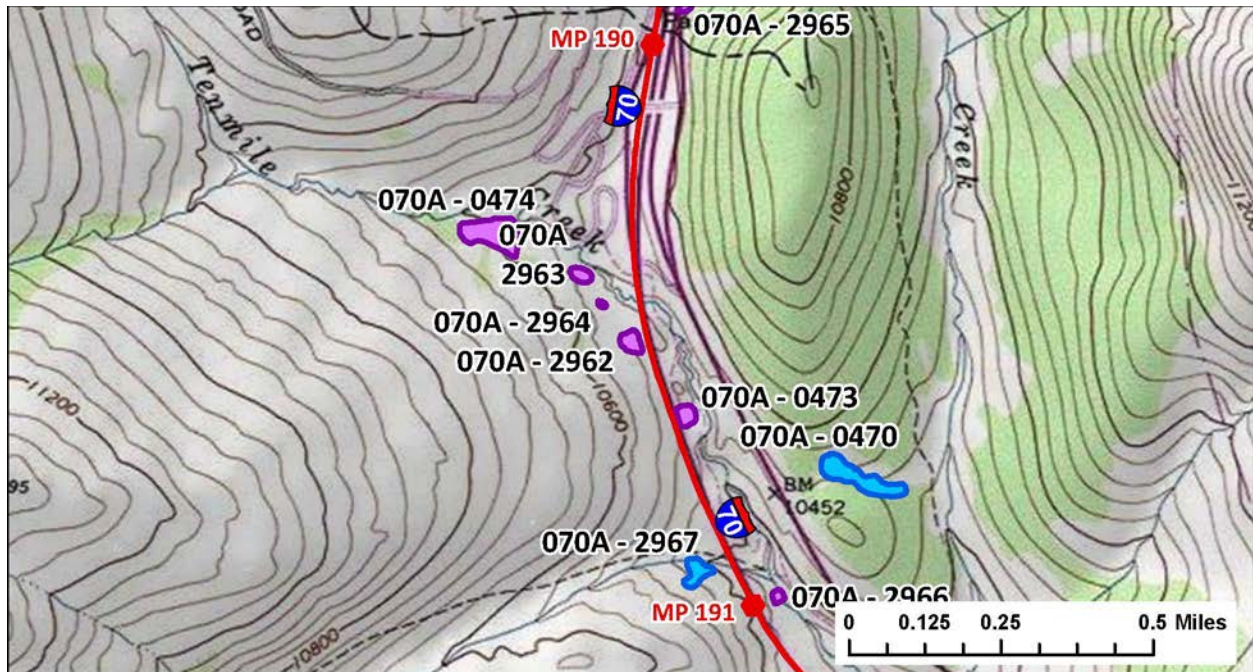
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,551 ft

Size: 0.63 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Shrubby fen wetland complex adjacent to hillside. Dominated by *Salix wolfii* and *Betula glandulosa*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	7	37.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SEIN2	<i>Senecio integerrimus</i>	4	3.5
SWPE	<i>Swertia perennis</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5

Fen Polygon: 070A - 2963

Nearest Milepoint: I-70, MP 190

Location: Lies on trail behind rest stop

Surveyed Date: 8/10/2017

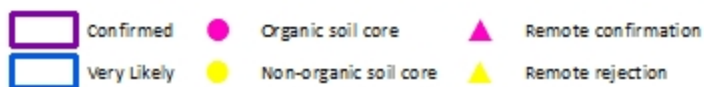
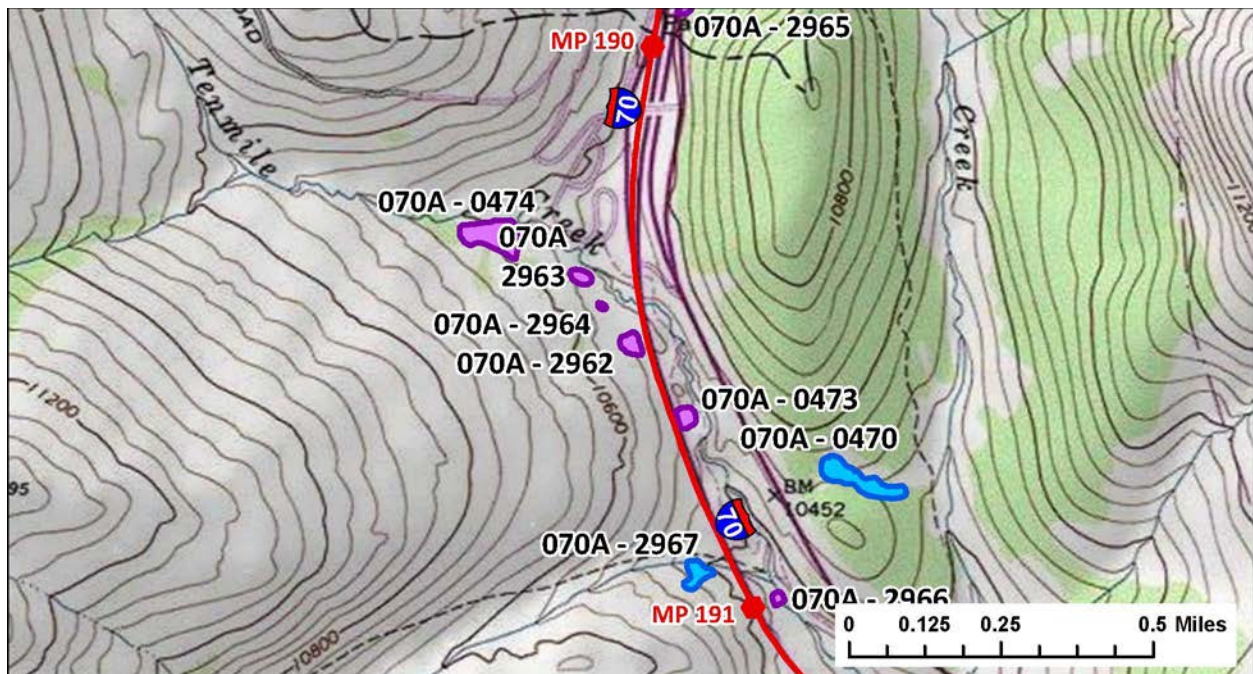
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,577 ft

Size: 0.42 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen is a willow thicket with patches of sedge meadow.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PEFL15	<i>Pentaphylloides floribunda</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
THAL	<i>Thalictrum alpinum</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SEIN2	<i>Senecio integerrimus</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
BIVI2	<i>Bistorta vivipara</i>	2	0.5
CHNU4	<i>Chondrophylla nutans</i>	2	0.5
DAIN	<i>Danthonia intermedia</i>	2	0.5
UNKNFORB	<i>Unknown forb</i>	2	0.5

Fen Polygon: 070A - 2964

Nearest Milepoint: I-70, MP 190

Location: Lies on trail behind rest stop

Surveyed Date: 8/10/2017

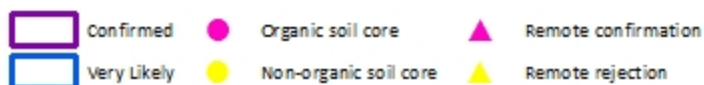
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,561 ft

Size: 0.07 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Sloping fen meadow patch with *Salix wolfii*, *Carex*, and *Poa* species.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
DECE	<i>Deschampsia cespitosa</i>	7	37.5
SAWO	<i>Salix wolfii</i>	7	37.5
THAL	<i>Thalictrum alpinum</i>	5	7.5
B EGL	<i>Betula glandulosa</i>	4	3.5
BIVI2	<i>Bistorta vivipara</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SEIN2	<i>Senecio integerrimus</i>	3	1.5
CHNU4	<i>Chondrophylla nutans</i>	2	0.5
POGR9	<i>Potentilla gracilis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
VAED	<i>Valeriana edulis</i>	2	0.5

Fen Polygon: 070A - 2965

Nearest Milepoint: I-70, MP 190

Location: Adjacent to I-70 westbound, across from Black Lake

Surveyed Date: 8/10/2017

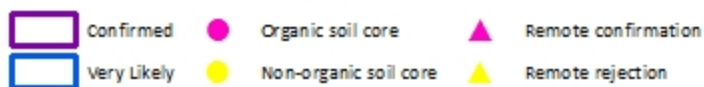
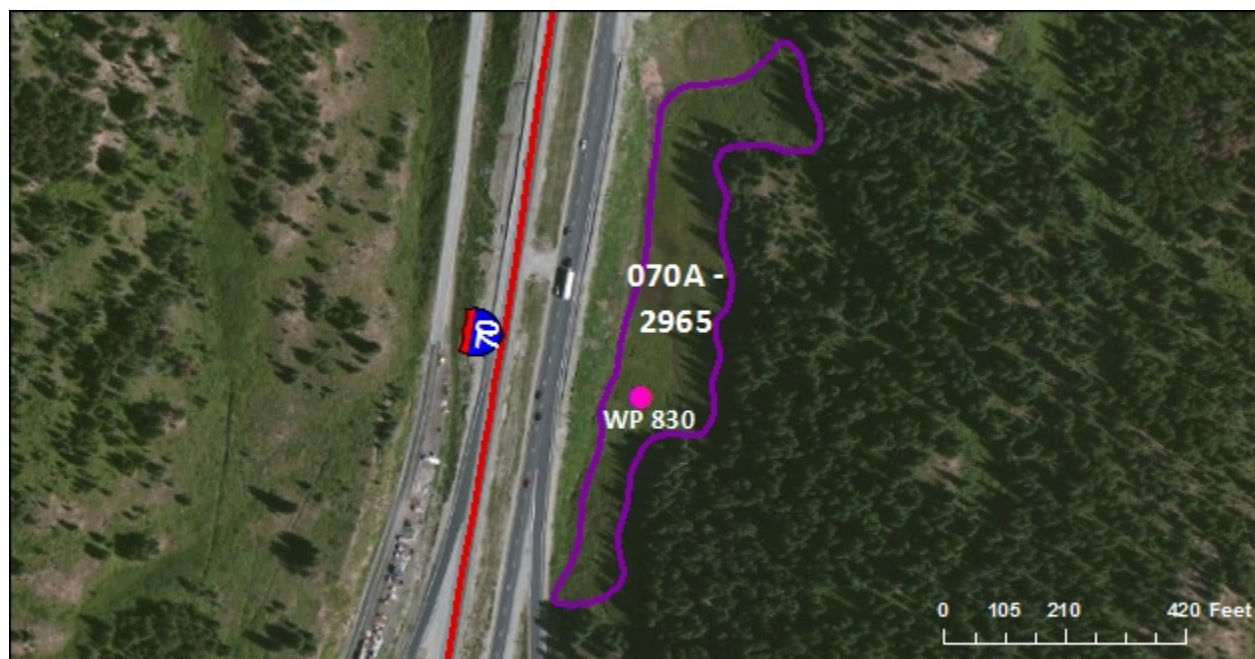
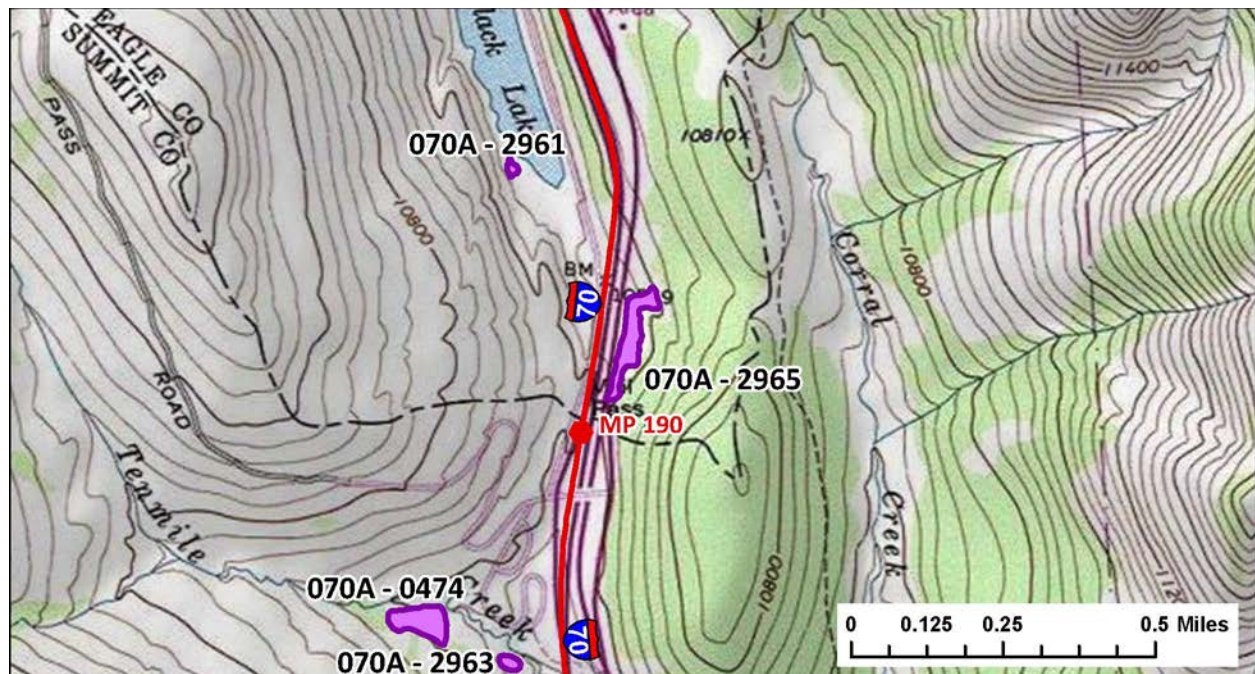
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,558 ft

Size: 3.08 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen is in a valley created by the road and a hillside. > 40 cm of peat. Water table is 10 cm below the surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
VAED	<i>Valeriana edulis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	5	7.5
SAWO	<i>Salix wolfii</i>	5	7.5
B EGL	<i>Betula glandulosa</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
BRAR20	<i>Breea arvensis</i>	2	0.5
CANE3	<i>Carex nelsonii</i>	2	0.5
CASAL2	<i>Carex saxatilis ssp. laxa</i>	2	0.5
CASC11	<i>Carex scoparia</i>	2	0.5
CAVE6	<i>Carex vesicaria</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
JUME3	<i>Juncus mertensianus</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
EREL9	<i>Erigeron elatior</i>	1	0.1
EREX4	<i>Erigeron eximius</i>	1	0.1
F-RANUN	<i>Ranunculaceae</i>	1	0.1
JUARA4	<i>Juncus arcticus ssp. Ater</i>	1	0.1
PHCO9	<i>Phleum commutatum</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
SOCA6	<i>Solidago canadensis</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1
THAL	<i>Thalictrum alpinum</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 070A - 2966

Nearest Milepoint: I-70, MP 191

Location: Lies between I-70 Eastbound and Westbound

Surveyed Date: 8/10/2017

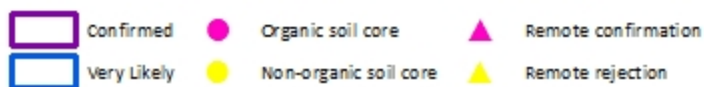
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,367 ft

Size: 0.21 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Sloping wetland with pockets of small fens. Peat to 40 cm and water table at 20 cm. The site is dominated by *Salix wolfii* and *Carex aquatilis*. Site drains into creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
LIBIH	<i>Ligularia bigelovii</i> var. <i>hallii</i>	6	17.5
B EGL	<i>Betula glandulosa</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
GEALS3	<i>Geum aleppicum</i> ssp. <i>strictum</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
ALOPE	<i>Alopecurus</i>	2	0.5
CALAM	<i>Calamagrostis</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
CAST22	<i>Carex stevenii</i>	1	0.1
EQAR	<i>Equisetum arvense</i>	1	0.1
MECI3	<i>Mertensia ciliata</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1
VERON	<i>Veronica</i>	1	0.1

Fen Polygon: 070A - 2967

Nearest Milepoint: I-70, MP 191

Location: Wilder Gulch

Surveyed Date: 8/11/2017

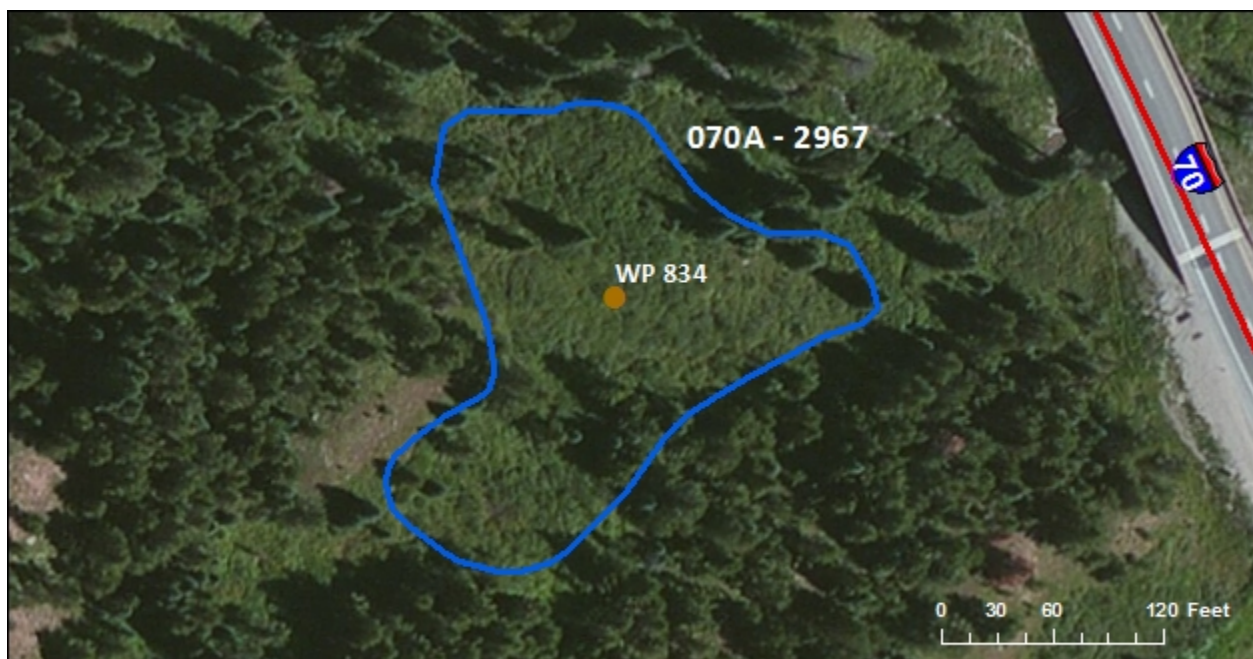
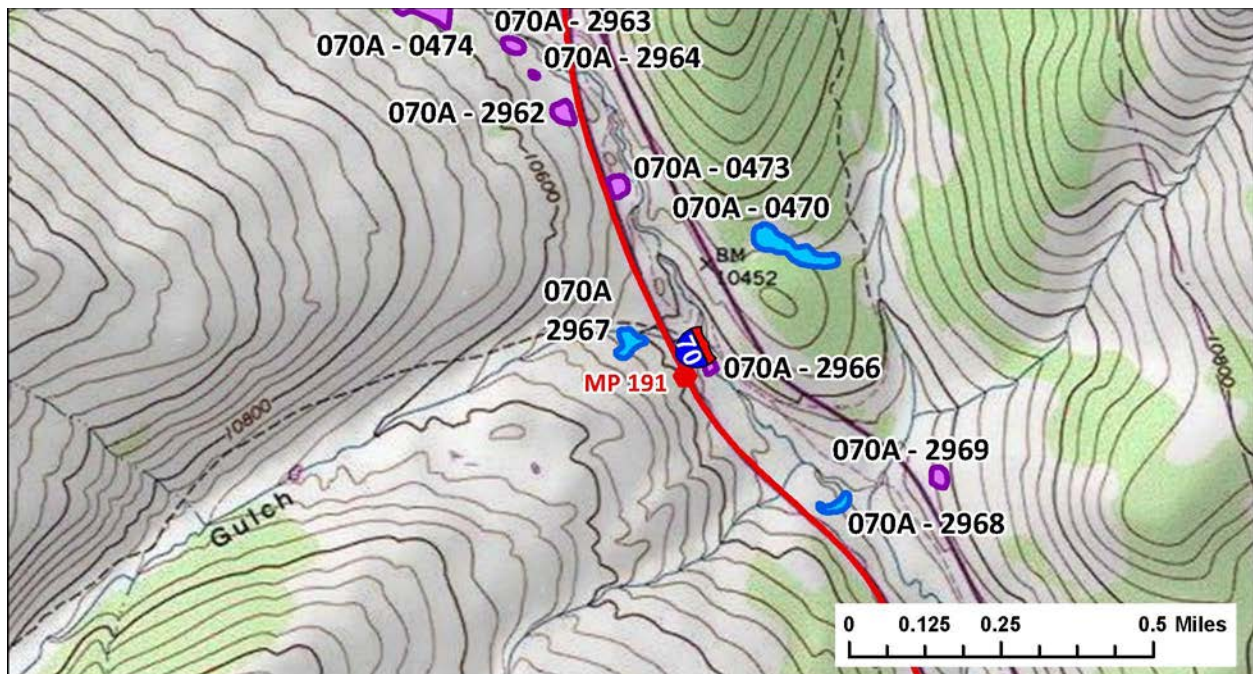
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,453 ft

Size: 0.84 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Potential fen. Area is a known fen from previous survey (Jones et al. 2009). However, soil core extracted dark black loamy soil with high OM (borderline peat). Area drains into creek that runs under the highway. Water table at 30 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
VAED	<i>Valeriana edulis</i>	4	3.5
CAAQ	<i>Carex aquatilis</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SENEC	<i>Senecio</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
ARNIC	<i>Arnica</i>	2	0.5
CAREX	<i>Carex</i>	2	0.5
CAST22	<i>Carex stevenii</i>	2	0.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
PEDIC	<i>Pedicularis</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
PHCO9	<i>Phleum commutatum</i>	2	0.5
PIPU	<i>Picea pungens</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
BIVI2	<i>Bistorta vivipara</i>	1	0.1
CADIG	<i>Carex dioica ssp. gynocrates</i>	1	0.1
CARH4	<i>Castilleja rhexifolia</i>	1	0.1
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
EQAR	<i>Equisetum arvense</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1
MIOD2	<i>Micranthes odontoloma</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 070A - 2968

Nearest Milepoint: I-70, MP 191

Location: Adjacent to West Tenmile Creek

Surveyed Date: 8/10/2017

Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,315 ft

Size: 0.50 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Potential fen, on a moderate slope. Horseshoe shaped, surrounding a slight hill. Fen is contiguous with other wetlands throughout the valley. Soil is saturated. Black highly organic soil, with some mineral content.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
VAED	<i>Valeriana edulis</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	5	7.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	5	7.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	5	7.5
F-APIAC	<i>Apiaceae</i>	4	3.5
GEALS3	<i>Geum aleppicum ssp. Strictum</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
ACLA5	<i>Achillea lanulosa</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
ANTEN	<i>Antennaria</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
BIVI2	<i>Bistorta vivipara</i>	1	0.1
CAMI7	<i>Carex microptera</i>	1	0.1
CHNU4	<i>Chondrophylla nutans</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1

Fen Polygon: 070A - 2969

Nearest Milepoint: I-70, MP 191

Location: Adjacent to westbound I-70, near Corral Creek

Surveyed Date: 8/10/2017

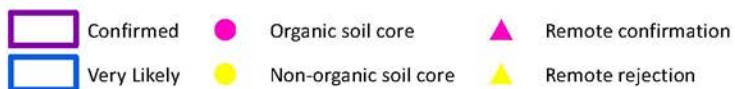
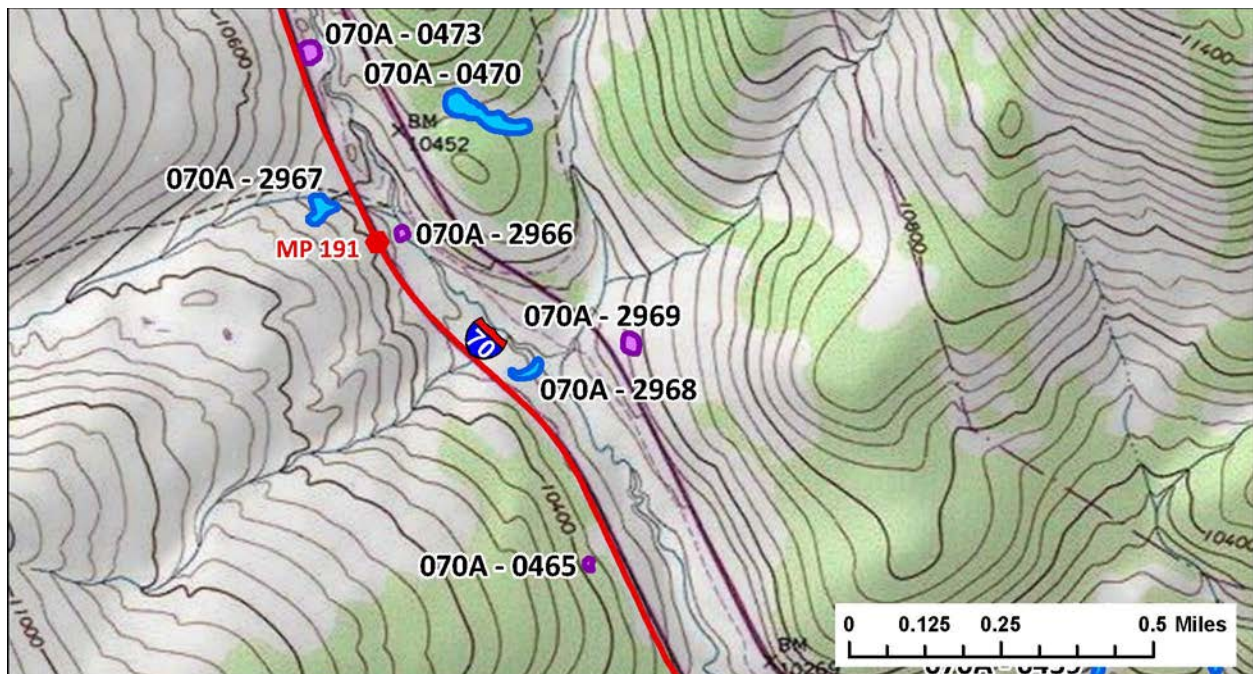
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,348 ft

Size: 0.47 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Steeply sloping fen, with surface water running toward highway. Sparse spruce trees boarding fen. Greater than 40 cm of peat. High bryophyte cover. Water table 20 cm below surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
BGL	<i>Betula glandulosa</i>	7	37.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
BIVI2	<i>Bistorta vivipara</i>	2	0.5
CACA12	<i>Carex capillaris</i>	2	0.5
CAREX	<i>Carex</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-PLANT	<i>Plantaginaceae</i>	2	0.5
FRVEB2	<i>Fragaria vesca ssp. bracteata</i>	2	0.5
LUSP4	<i>Luzula spicata</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
ANEMO	<i>Anemone</i>	1	0.1
ANTEN	<i>Antennaria</i>	1	0.1
EREX4	<i>Erigeron eximius</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
LUPA4	<i>Luzula parviflora</i>	1	0.1
PIPU	<i>Picea pungens</i>	1	0.1
SEWO	<i>Senecio wootonii</i>	1	0.1
THAL	<i>Thalictrum alpinum</i>	1	0.1

Fen Polygon: 070A - 2971

Nearest Milepoint: I-70, MP 213

Location: On Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

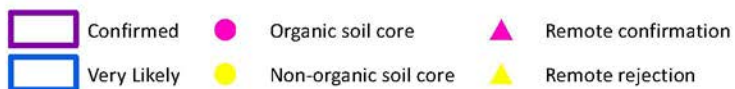
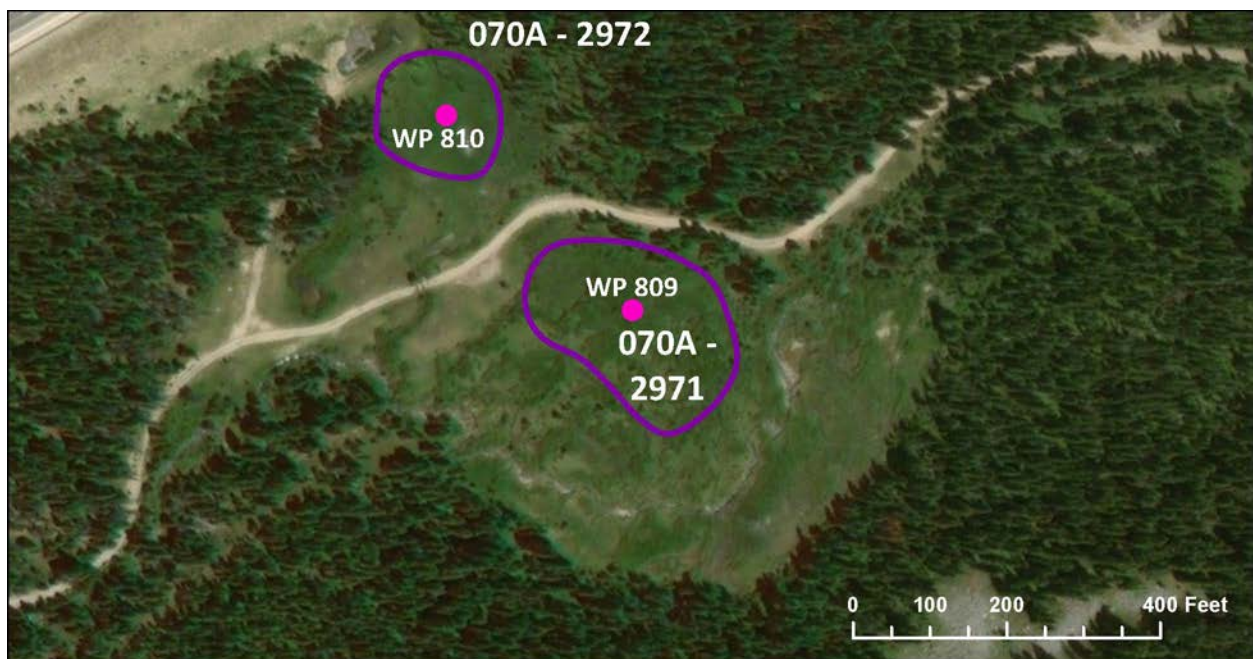
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,594 ft

Size: 1.08 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Slightly sloping fen, in a valley created by the I-70 and the forested hillside. A powerline bisects the polygon. Soil is mucky peat exceeding 40 cm. The water table is 15 cm below the surface. Dominated by *Salix planifolia* and grasses.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
DECE	<i>Deschampsia cespitosa</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
CAPR5	<i>Carex praegracilis</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ACCO4	<i>Aconitum columbianum</i>	2	0.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	2	0.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>ater</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
PIPU	<i>Picea pungens</i>	2	0.5
TAOF	<i>Taraxacum officinale</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	1	0.1
EQAR	<i>Equisetum arvense</i>	1	0.1
F-ASTER	<i>Asteraceae</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1

Fen Polygon: 070A - 2972

Nearest Milepoint: I-70, MP 213

Location: On Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

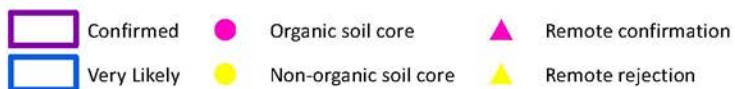
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,600 ft

Size: 0.49 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Soil core consists of 7 cm gravel, muck and fiber, followed by 2 cm of clay, followed by over 40 cm gray brown peat. Gravel in the top layer of the soil likely came from highway construction. Fen is sloping slightly toward the creek. Soil is saturated.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
CAUT	<i>Carex utriculata</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
SAMO2	<i>Salix monticola</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
EQAR	<i>Equisetum arvense</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PIPU	<i>Picea pungens</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
JUME3	<i>Juncus mertensianus</i>	1	0.1

Fen Polygon: 070A - 2987

Nearest Milepoint: I-70, MP 210

Location: Straight Creek Trail

Surveyed Date: 6/17/2017

Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,780 ft

Size: 1.04 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen on a gentle slope, parallel to highway. Soils are saturated with pockets of standing water. Powerline runs along north side of polygon. Evidence of historic beaver presence. Identified a boreal toad within the polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SABO2	<i>Salix boothii</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
SAWO	<i>Salix wolfii</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5
ERTR19	<i>Erythrocoma triflora</i>	3	1.5
F-ASTER	<i>Asteraceae</i>	3	1.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	3	1.5
LUPA4	<i>Luzula parviflora</i>	3	1.5
BODR	<i>Boechera drummondii</i>	2	0.5
CACA11	<i>Carex canescens</i>	2	0.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
DIIN5	<i>Distegia involucrata</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
ORSE	<i>Orthilia secunda</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5
TAOF	<i>Taraxacum officinale</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
VACAA	<i>Valeriana capitata ssp. acutiloba</i>	2	0.5
VERON	<i>Veronica</i>	2	0.5
VIMAP3	<i>Viola macloskeyi ssp. Pallens</i>	2	0.5
CARDA	<i>Cardamine</i>	1	0.1
F-FABAC	<i>Fabaceae</i>	1	0.1

Fen Polygon: 070A - 2988

Nearest Milepoint: I-70, MP 210

Location: Straight Creek Trail

Surveyed Date: 6/17/2017

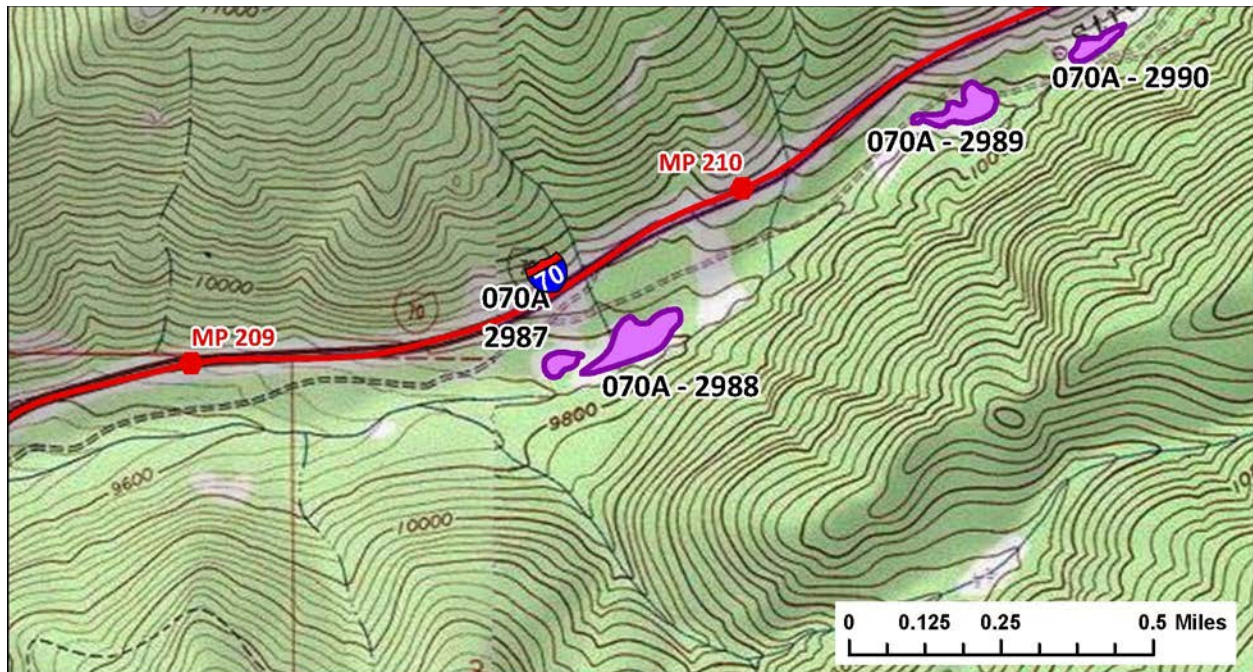
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,803 ft

Size: 4.47 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



- | | | |
|-------------|-----------------------|---------------------|
| Confirmed | Organic soil core | Remote confirmation |
| Very Likely | Non-organic soil core | Remote rejection |



Description: Slightly sloping fen. Over 1 meter of peat. Many natural multidirectional water channels. Isolated patches of *Sphagnum*. Channels flow directly into creek. A powerline bisects the polygon. Set far back from the road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SABO2	<i>Salix boothii</i>	3	1.5
CALAM	<i>Calamagrostis</i>	2	0.5
CAUT	<i>Carex utriculata</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>Ater</i>	2	0.5
POCAA4	<i>Polemonium caeruleum</i> ssp. <i>amygdalinum</i>	2	0.5
VACAA	<i>Valeriana capitata</i> ssp. <i>acutiloba</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>Pallens</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	1	0.1

Fen Polygon: 070A - 2989

Nearest Milepoint: I-70, MP 210

Location: Straight Creek Trail

Surveyed Date: 6/17/2017

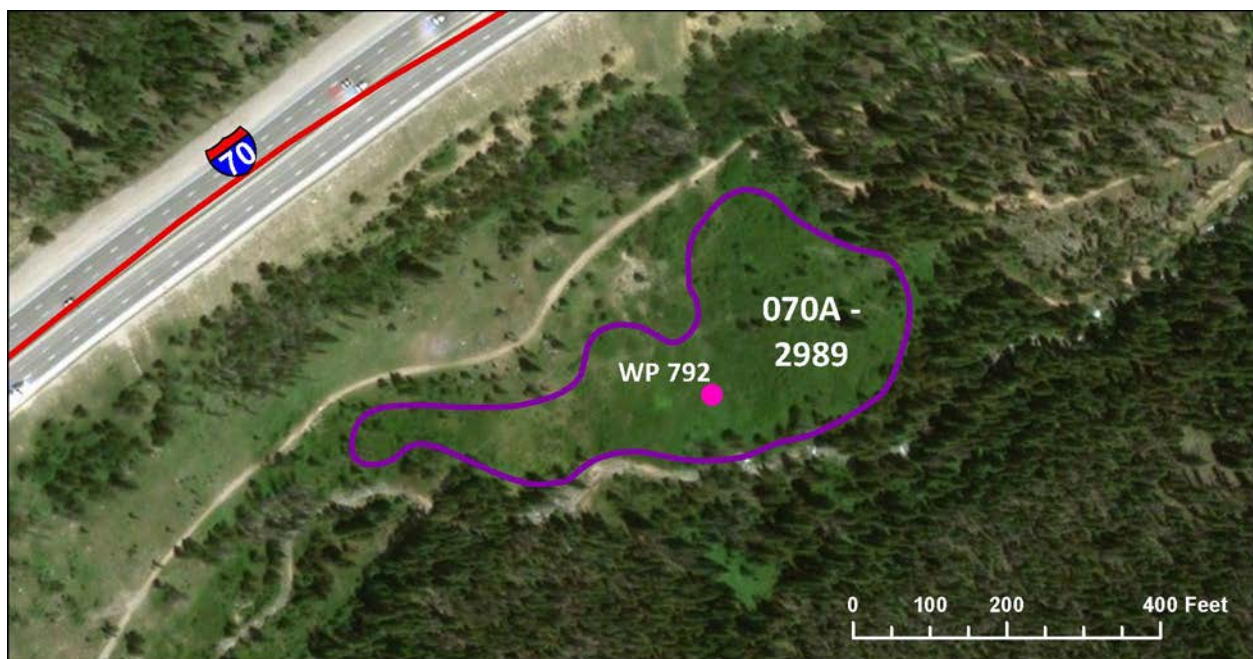
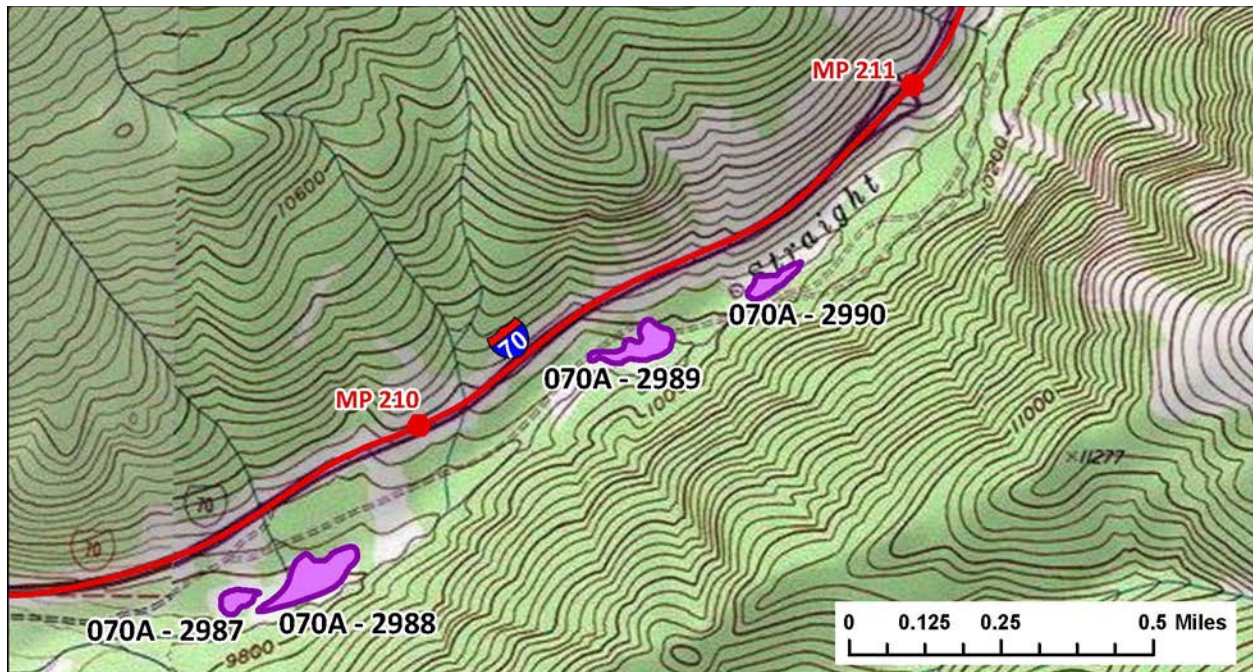
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,977 ft

Size: 2.78 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



- | | | |
|-------------|-----------------------|---------------------|
| Confirmed | Organic soil core | Remote confirmation |
| Very Likely | Non-organic soil core | Remote rejection |



Description: Slightly sloping fen. About 80 cm of peat. Band of *Carex utriculata* runs through center of fen. Remainder of fen dominated by *Salix planifolia*. Gravel washed out into fen channels from the road. Soils are saturated, with some surface water channels.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAST36	<i>Calamagrostis stricta</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
CACA11	<i>Carex canescens</i>	2	0.5
DIIN5	<i>Distegia involucrata</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1

Fen Polygon: 070A - 2990

Nearest Milepoint: I-70, MP 211

Location: Straight Creek Trail

Surveyed Date: 6/17/2017

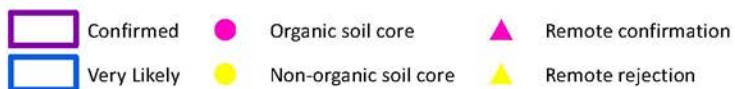
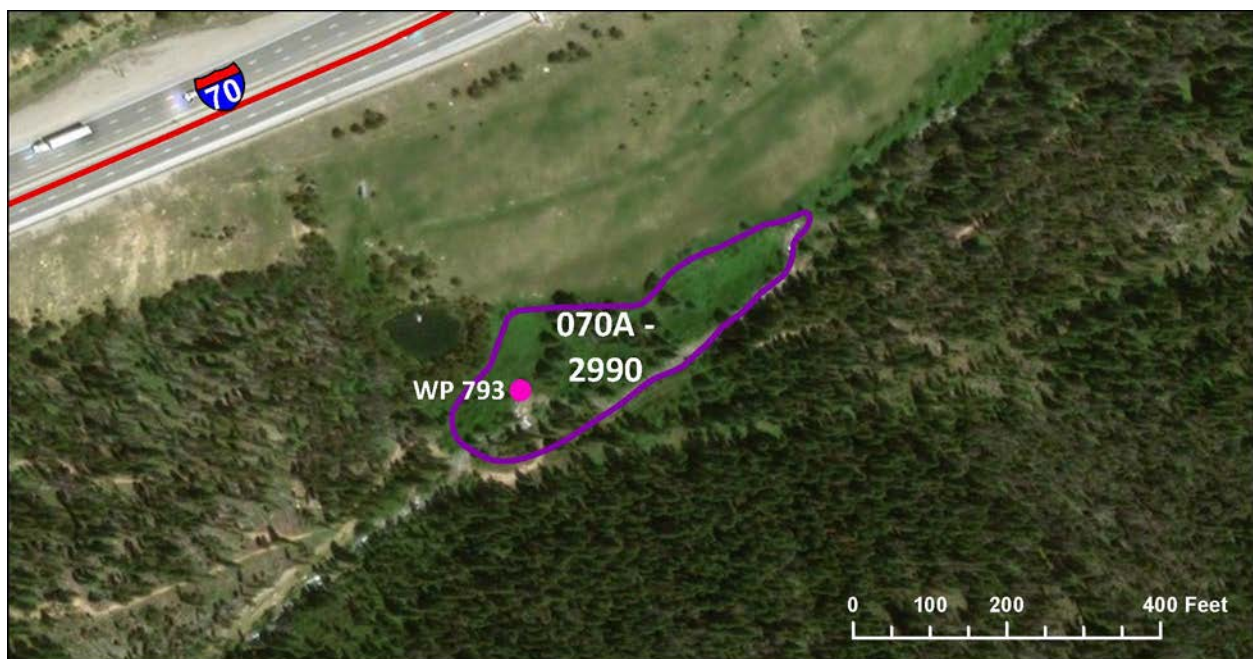
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,030 ft

Size: 1.30 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Small fen between tall conifers. No surface water. Soils saturated below 10 cm. Fen is adjacent to river and grassy steep slope made by highway. Top 5 cm peat, 5 cm below that is tan clay, which is followed by deep peat.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	4	3.5
LITE2	<i>Ligusticum tenuifolium</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
CALAM	<i>Calamagrostis</i>	3	1.5
F-ASTER	<i>Asteraceae</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
PIEN	<i>Picea engelmannii</i>	3	1.5
CAUT	<i>Carex utriculata</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	2	0.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
JUNCU	<i>Juncus</i>	2	0.5
POTAM	<i>Potamogeton</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
TAOF	<i>Taraxacum officinale</i>	2	0.5

Fen Polygon: 070A - 2992

Nearest Milepoint: I-70, MP 212

Location: Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

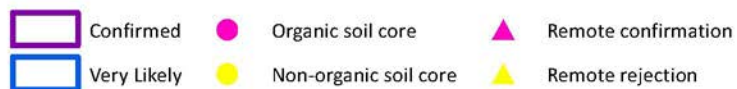
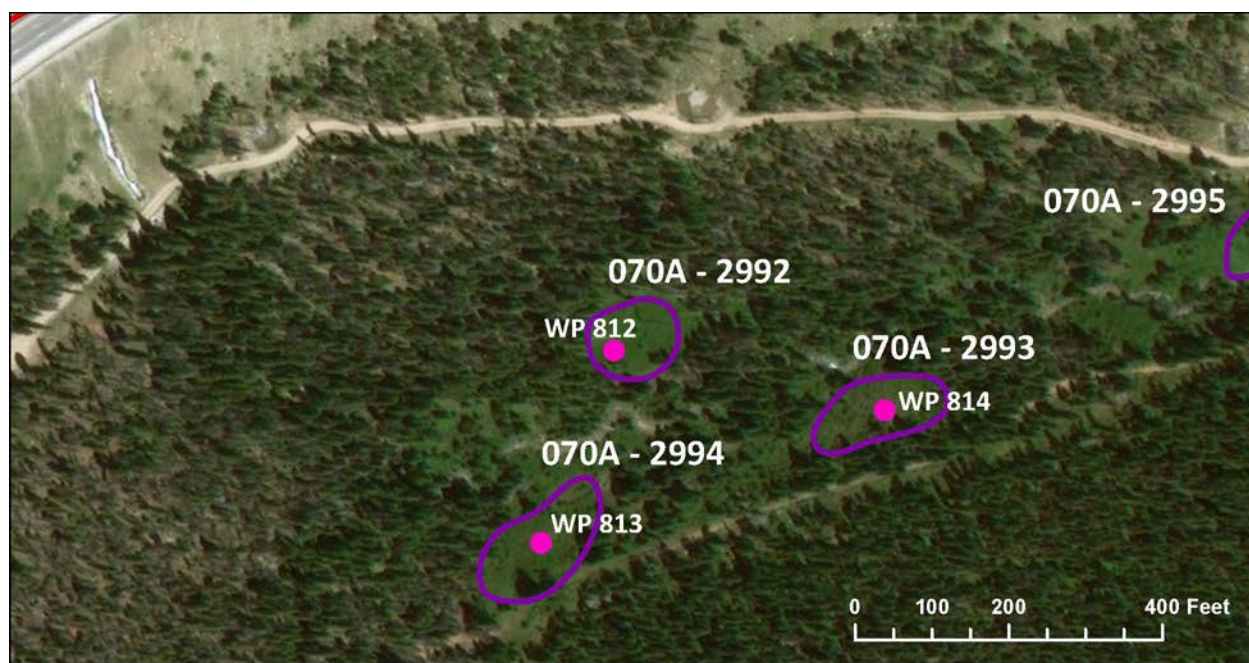
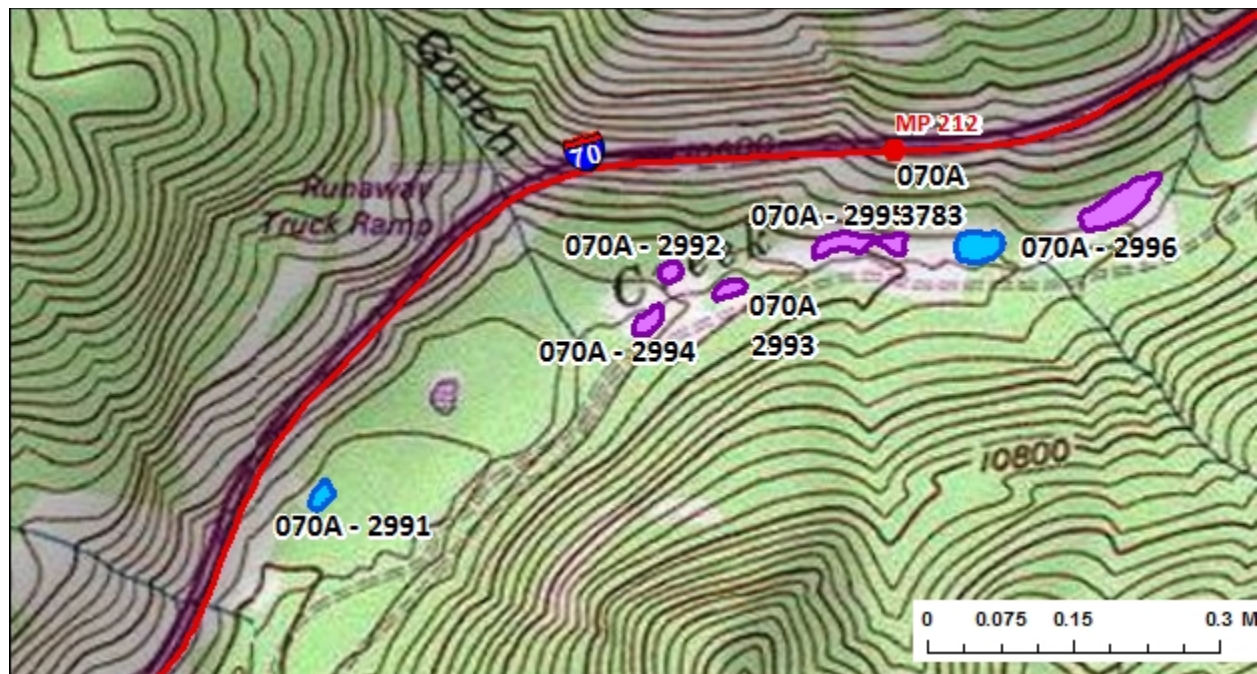
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,335 ft

Size: 0.22 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Soil has greater than 40 cm of peat. The water table is 10 cm below the surface. It is a sloping fen surrounded by spruce-fir forest. Polygon located in valley created between elevated highway and mountain slope.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
EQAR	<i>Equisetum arvense</i>	7	37.5
F-ASTER	<i>Asteraceae</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
POPA2	<i>Poa palustris</i>	5	7.5
PIPU	<i>Picea pungens</i>	4	3.5
SAMO2	<i>Salix monticola</i>	4	3.5
SETR	<i>Senecio triangularis</i>	4	3.5
ERCO6	<i>Erigeron coulteri</i>	3	1.5
GATR3	<i>Galium triflorum</i>	3	1.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
dBGL	<i>Betula glandulosa</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
GERI	<i>Geranium richardsonii</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
ACCO4	<i>Aconitum columbianum</i>	1	0.1
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
ERPEC	<i>Erigeron peregrinus ssp. callianthemus</i>	1	0.1
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	1	0.1
GEMAP	<i>Geum macrophyllum var. perincisum</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
LIMNOR	<i>Limnorchis</i>	1	0.1
LUPA4	<i>Luzula parviflora</i>	1	0.1
STELL	<i>Stellaria</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 070A - 2993

Nearest Milepoint: I-70, MP 212

Location: Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

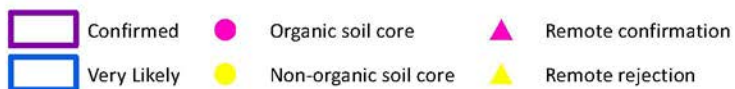
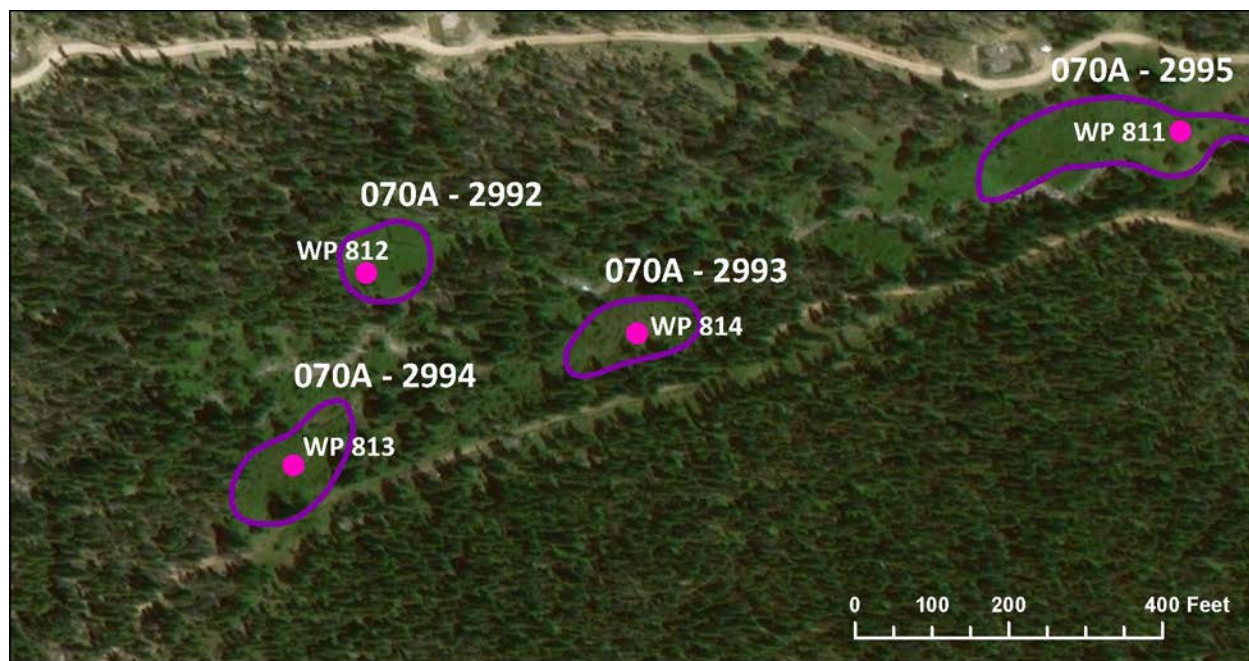
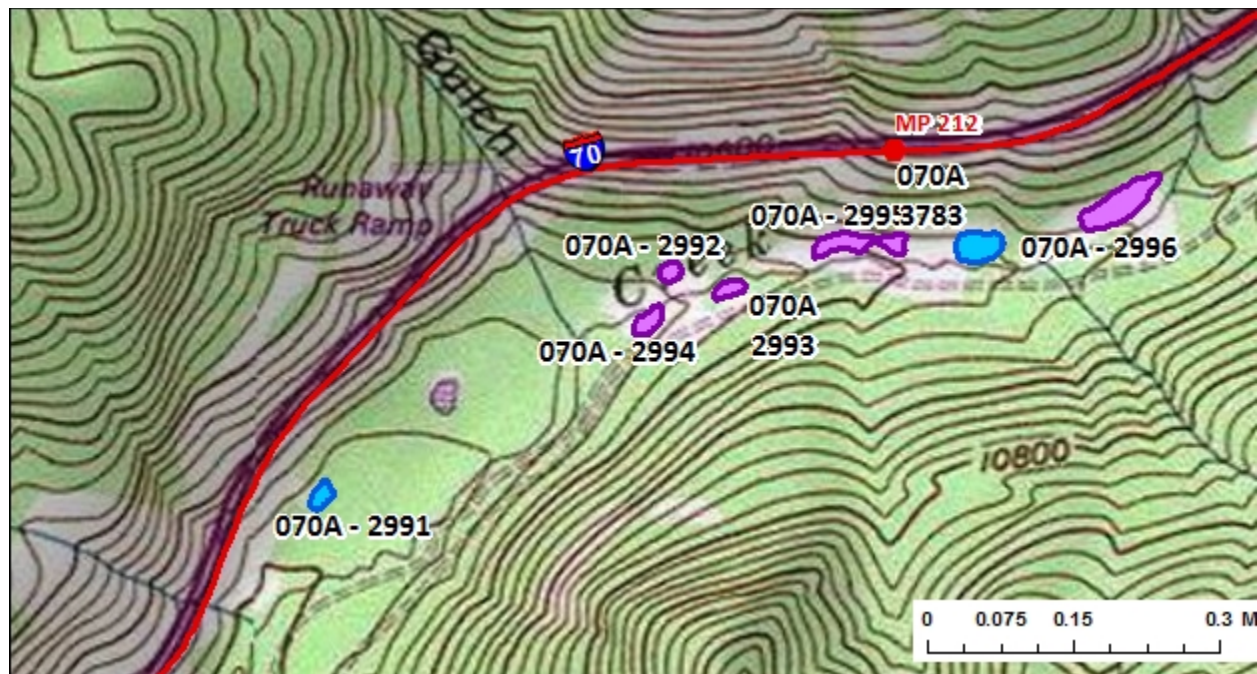
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,351 ft

Size: 0.27 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Slightly sloping fen. Groundwater at surface. Dominated by *Betula glandulosa* and *Pentaphylloides floribunda*. Stream runs adjacent to the site. *Sphagnum* present at a cover class of 4 (>2-5% area cover).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
PEFL15	<i>Pentaphylloides floribunda</i>	6	17.5
F-ASTER	<i>Asteraceae</i>	5	7.5
PIPU	<i>Picea pungens</i>	5	7.5
BIVI2	<i>Bistorta vivipara</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
ERPEC	<i>Erigeron peregrinus ssp. callianthemus</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
CAST22	<i>Carex stevenii</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
CHDA2	<i>Chamerion danielsii</i>	1	0.1

Fen Polygon: 070A - 2994

Nearest Milepoint: I-70, MP 212

Location: Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

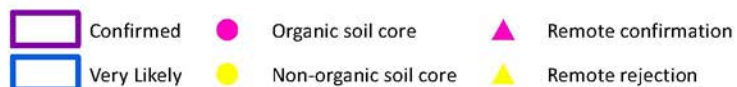
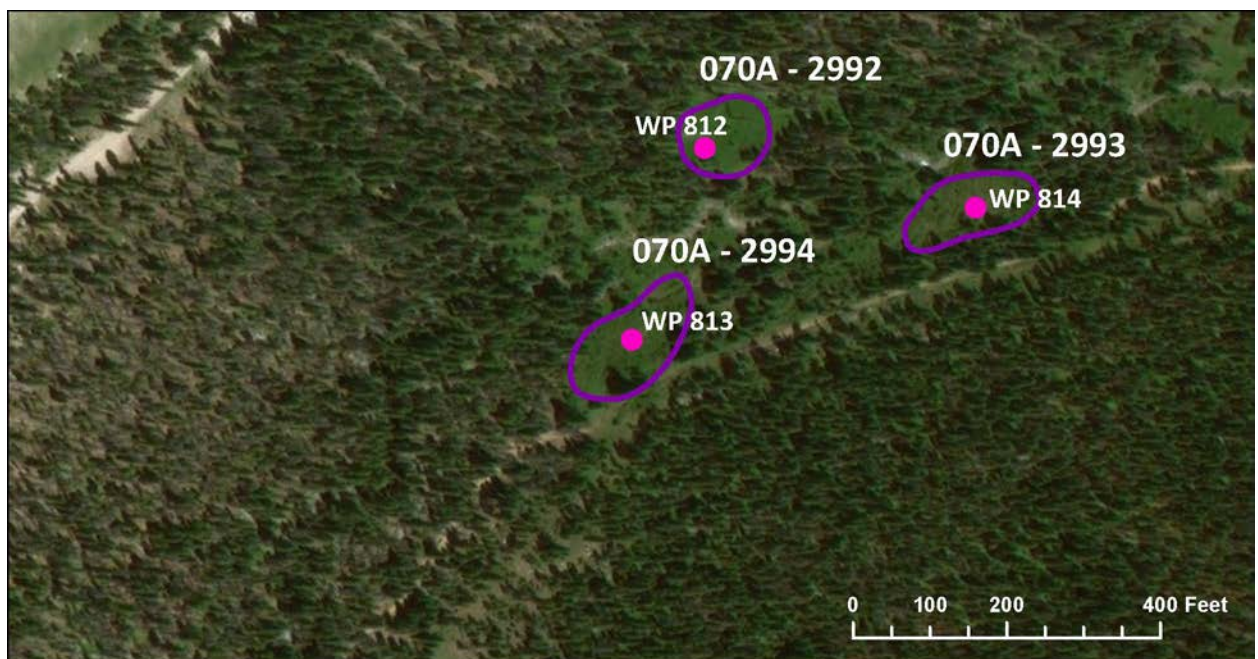
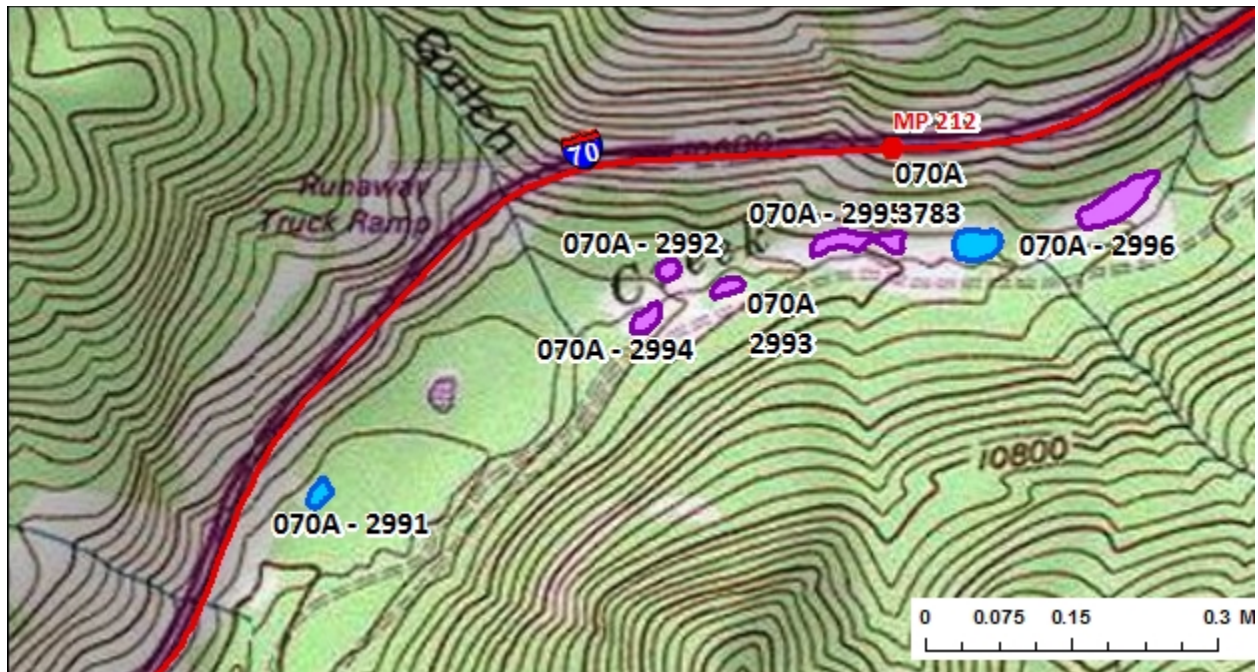
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,312 ft

Size: 0.35 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Peat exceeding 40 cm. Water table is 20 cm below the surface. Fen is slightly sloping, within a valley created by a mountain and the I-70. *Sphagnum* moss present, with a cover class of 5 (>5-10% area cover).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	8	62.5
PEFL15	<i>Pentaphylloides floribunda</i>	6	17.5
SWPE	<i>Swertia perennis</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PIPU	<i>Picea pungens</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
BIVI2	<i>Bistorta vivipara</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
POCO26	<i>Polemonium confertum</i>	3	1.5
CAST22	<i>Carex stevenii</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
ERCO6	<i>Erigeron coulteri</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
JUME3	<i>Juncus mertensianus</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 070A - 2995

Nearest Milepoint: I-70, MP 212

Location: Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

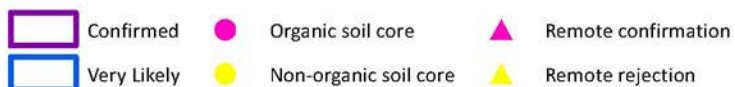
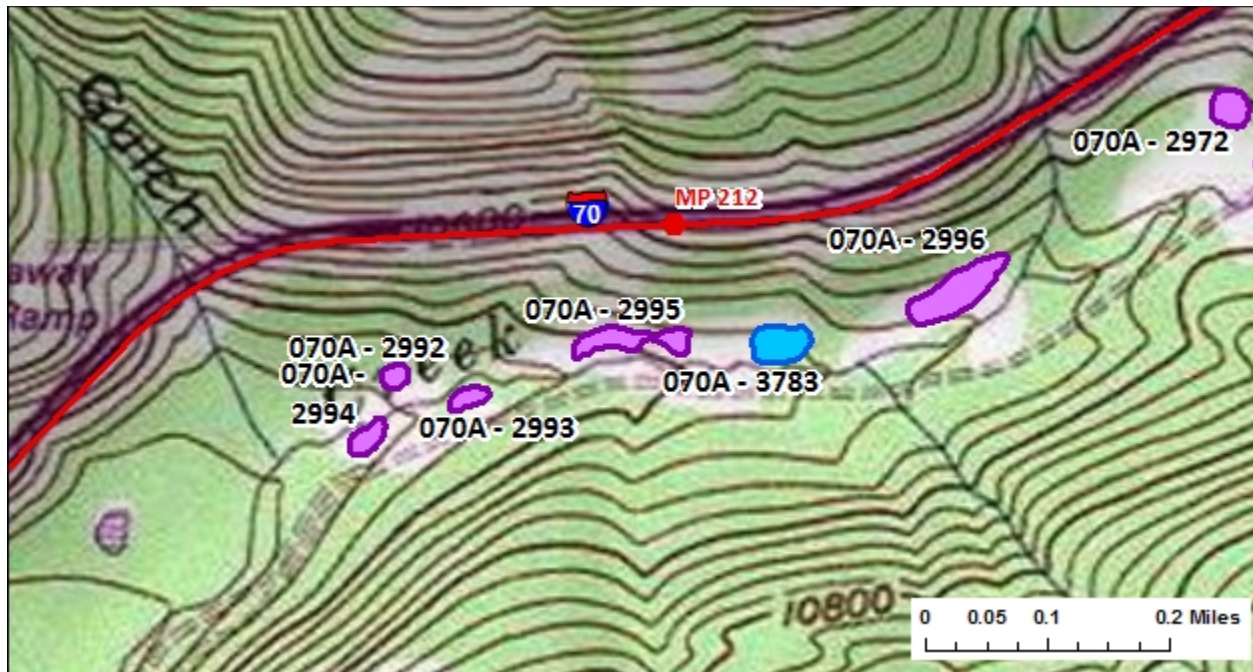
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,420 ft

Size: 0.86 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Narrow, slightly sloping fen, adjacent to a creek. Mucky peat with groundwater about 10 cm from surface. The fen is dominated by *Salix wolfii* and a variety of grasses.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAGE2	<i>Salix geyeriana</i>	6	17.5
SAMO2	<i>Salix monticola</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
PACKE	<i>Packera</i>	5	7.5
CAREX	<i>Carex</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	4	3.5
SALIX	<i>Salix</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
LIMNOR	<i>Limnorchis</i>	3	1.5
PIPU	<i>Picea pungens</i>	3	1.5
ACCO4	<i>Aconitum columbianum</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
BROMU	<i>Bromus</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
STELL	<i>Stellaria</i>	2	0.5
CAVE6	<i>Carex vesicaria</i>	1	0.1
ERCO6	<i>Erigeron coulteri</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
GERI	<i>Geranium richardsonii</i>	1	0.1
POCO26	<i>Polemonium confertum</i>	1	0.1
PSLE	<i>Psychrophila leptosepala</i>	1	0.1
PYROA3	<i>Pyrola rotundifolia</i> ssp. <i>asarifolia</i>	1	0.1

Fen Polygon: 070A - 2996

Nearest Milepoint: I-70, MP 212

Location: Straight Creek Trail, near Eisenhower Tunnel

Surveyed Date: 8/9/2017

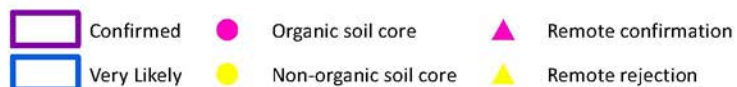
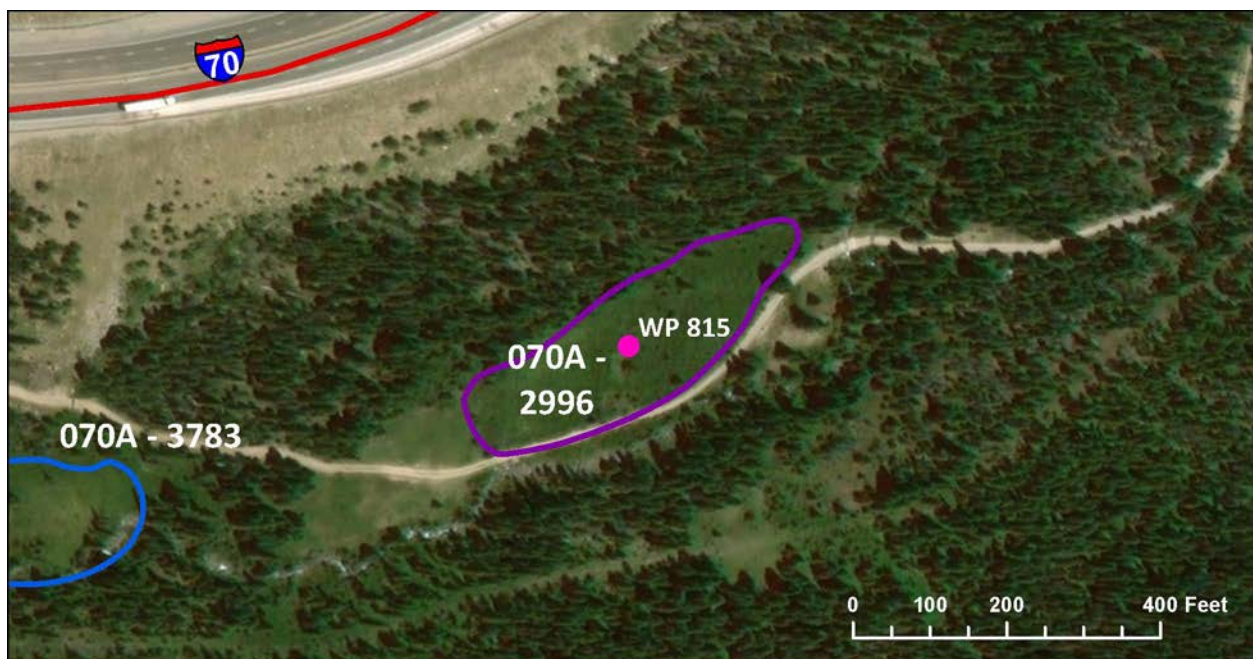
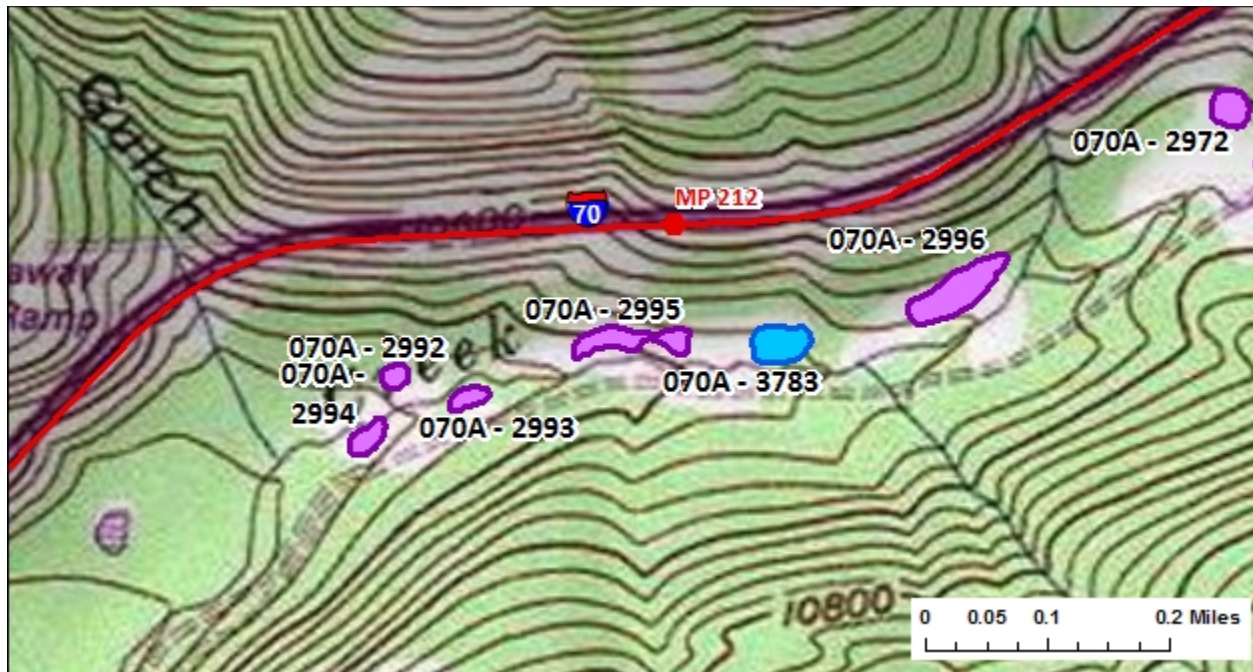
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,522 ft

Size: 1.34 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Sloping fen within a valley created by a mountain and the I-70. Peat exceeds 40 cm and the water table is 28 cm below surface. Site is dominated by *Betula glandulosa* and *Carex aquatilis*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
PIPU	<i>Picea pungens</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
BIBI5	<i>Bistorta bistortoides</i>	3	1.5
CAUT	<i>Carex utriculata</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
F-BORAG	<i>Boraginaceae</i>	3	1.5
JUME3	<i>Juncus mertensianus</i>	3	1.5
ELEOC	<i>Eleocharis</i>	2	0.5
ERPEC	<i>Erigeron peregrinus ssp. callianthemus</i>	2	0.5
FRVEB2	<i>Fragaria vesca ssp. bracteata</i>	2	0.5
GEAC2	<i>Gentianella acuta</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	1	0.1

Species Code	Scientific Name	Cover Class	Cover Midpoint
GEALS3	<i>Geum aleppicum ssp. Strictum</i>	1	0.1
IRMI	<i>Iris missouriensis</i>	1	0.1
MIMUL	<i>Mimulus</i>	1	0.1
PHPR3	<i>Phleum pratense</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
PYROA3	<i>Pyrola rotundifolia ssp. asarifolia</i>	1	0.1
SOCA6	<i>Solidago canadensis</i>	1	0.1

Fen Polygon: 070A - 3003

Nearest Milepoint: I-70, MP 218

Location: Adjacent to Clear Creek

Surveyed Date: 8/8/2017

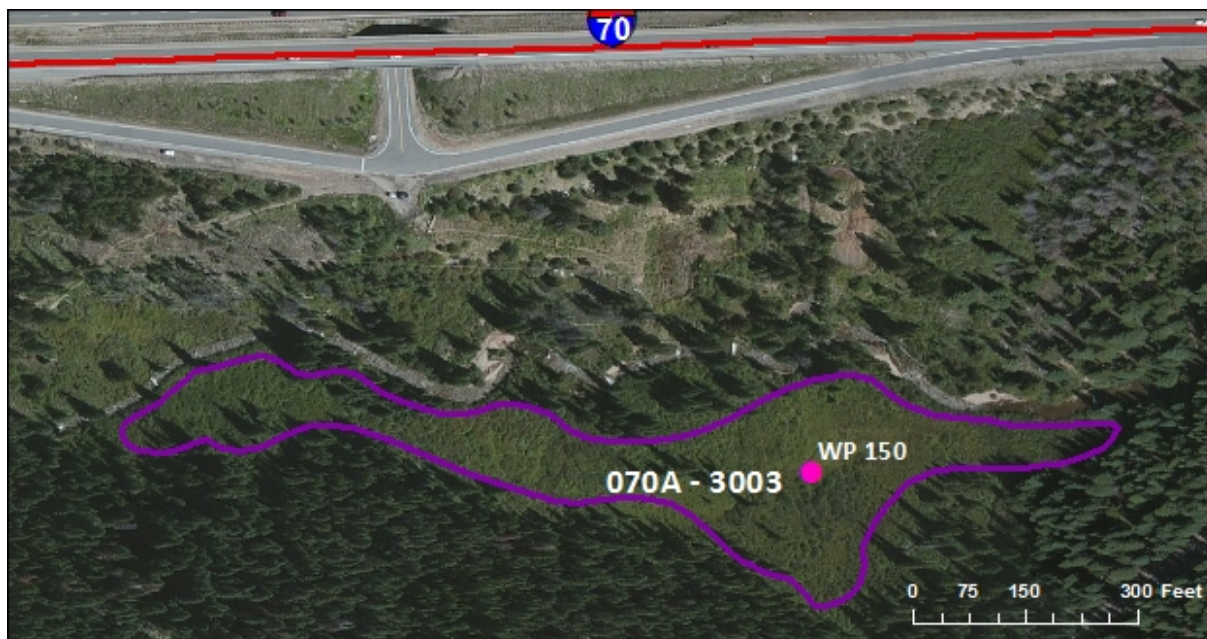
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,253 ft

Size: 3.33 acres

ROW Status: Public Easement/Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Polygon half on Arapahoe National Forest, half on private property



Description: Saturated sedge and willow fen. Moss hummocks throughout. Scattered *Betula glandulosa* patches.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
F-APIAC	<i>Apiaceae</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
CALE10	<i>Carex leptalea</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5

Fen Polygon: 082A - 3176

Nearest Milepoint: SH 82, MP 79

Location: North shore of the west Twin Lakes Reservoir

Surveyed Date: 8/13/2017

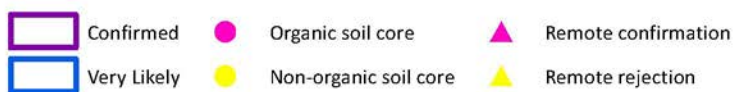
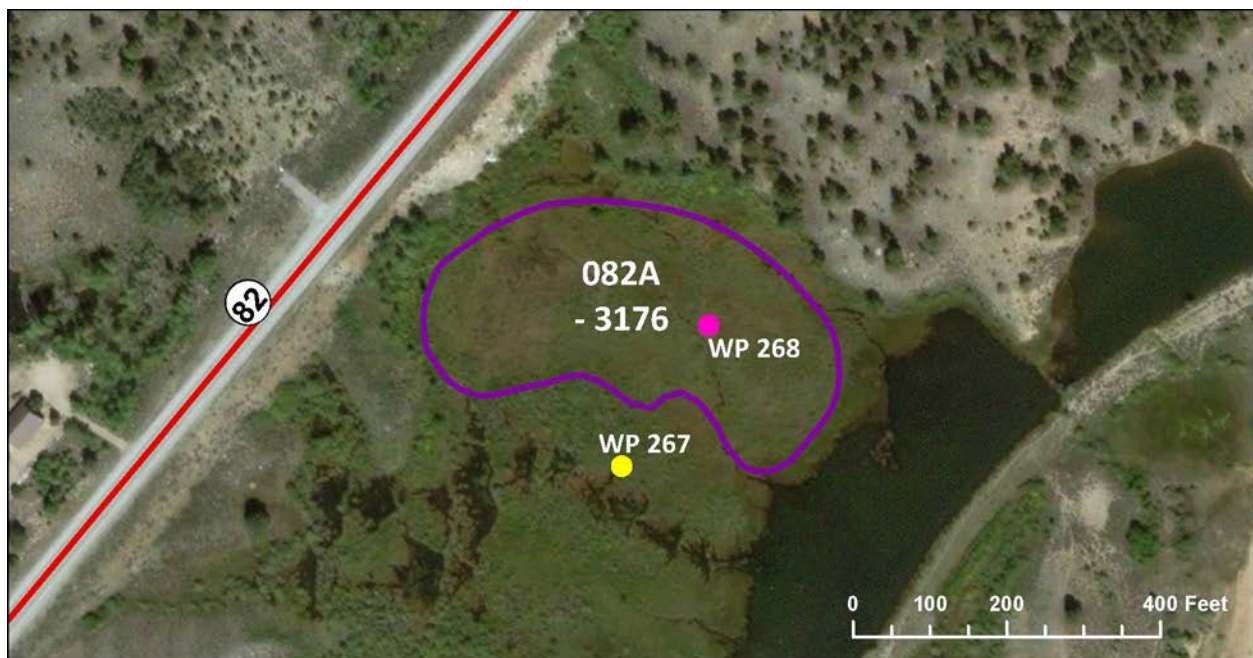
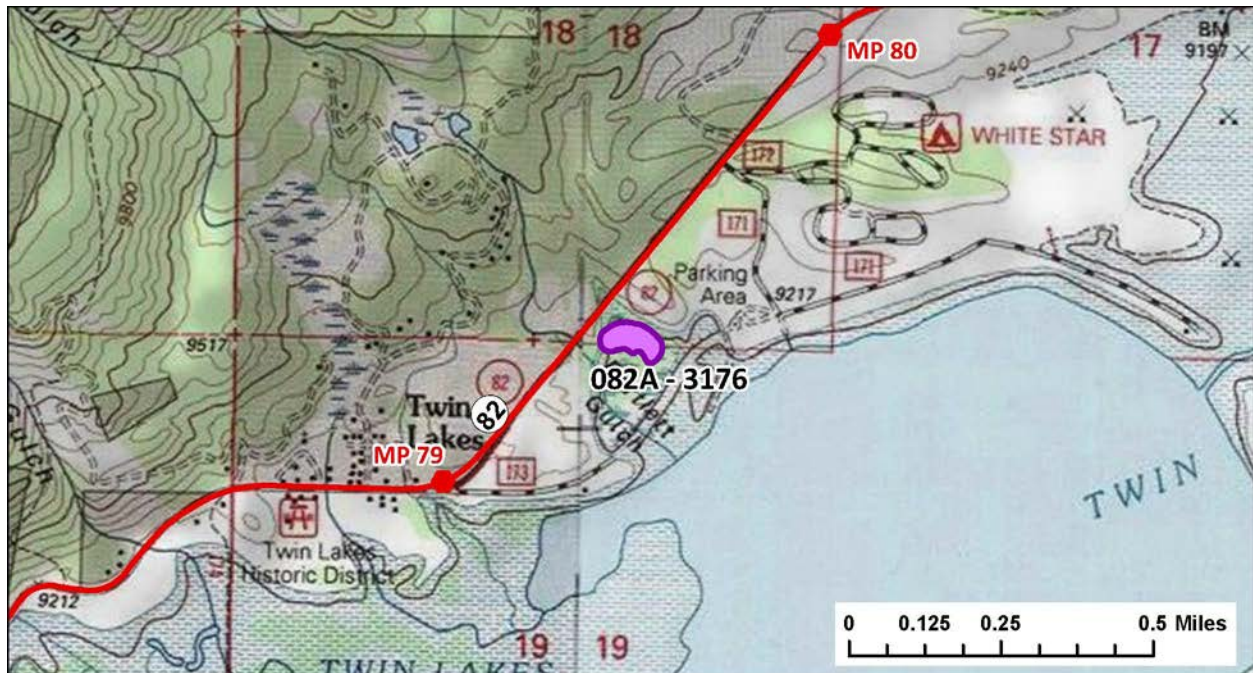
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,229 ft

Size: 2.77 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Graminoid and forb fen meadow, interspersed with *Salix* and *Betula glandulosa*. Soil saturated with high groundwater level. Peat exceeds core depth. Interesting species diversity. *Salix candida* present in plot.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CASI2	<i>Carex simulata</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
CAUT	<i>Carex utriculata</i>	4	3.5
SAMO2	<i>Salix monticola</i>	4	3.5
JUME3	<i>Juncus mertensianus</i>	3	1.5
SACA4	<i>Salix candida</i>	3	1.5
SAGE2	<i>Salix geyeriana</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	2	0.5
PAPA9	<i>Parnassia parviflora</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
TRMA20	<i>Triglochin maritima</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5
LOROT	<i>Lomatogonium rotatum ssp. tenuifolium</i>	1	0.1

Fen Polygon: 082A - 3222

Nearest Milepoint: SH 82, MP 71

Location: Near Independence Pass

Surveyed Date: 8/13/2017

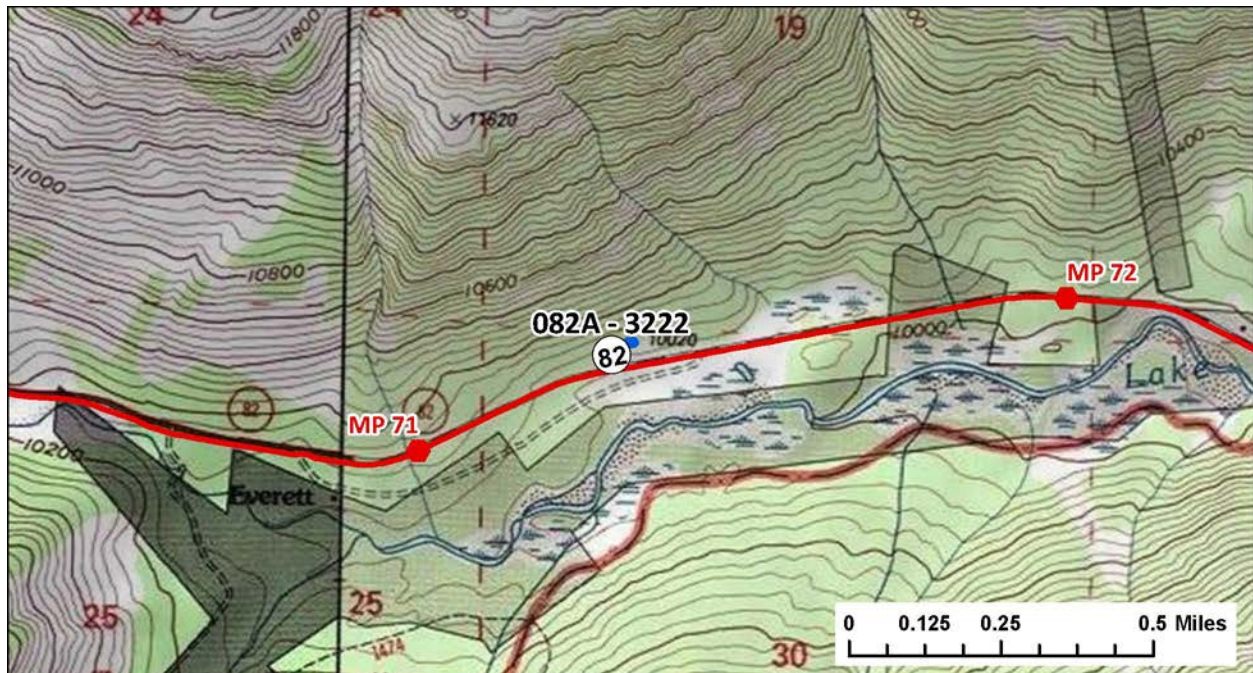
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,095 ft

Size: 0.07 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Probable fen. Wet herbaceous area along moderately sloping creek, patches of *Salix*. Soil was borderline peat (a small percentage of clay in lower peat).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
F-ASTER	<i>Asteraceae</i>	4	3.5
CAREX	<i>Carex</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
LIMNOR	<i>Limnorchis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
ANTEN	<i>Antennaria</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
GEALS3	<i>Geum aleppicum ssp. strictum</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5

Fen Polygon: 082A - 3230

Nearest Milepoint: SH 82, MP 69

Location: Near Independence Pass

Surveyed Date: 8/13/2017

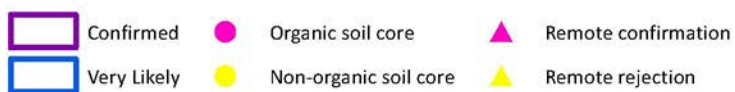
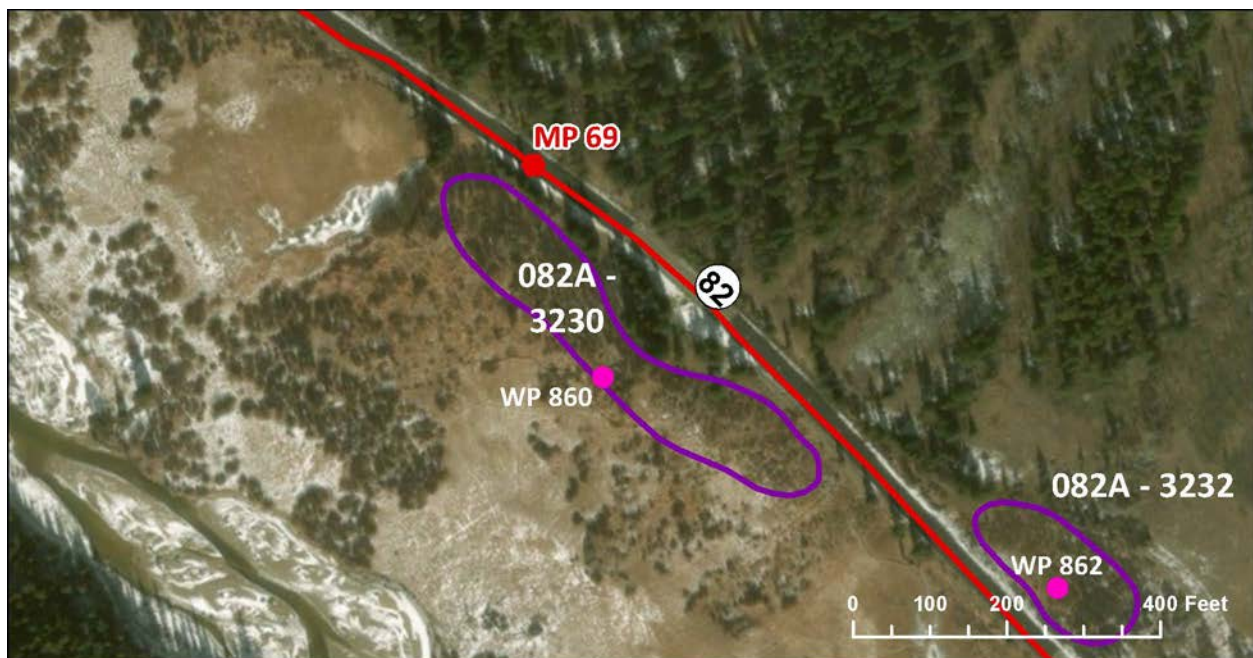
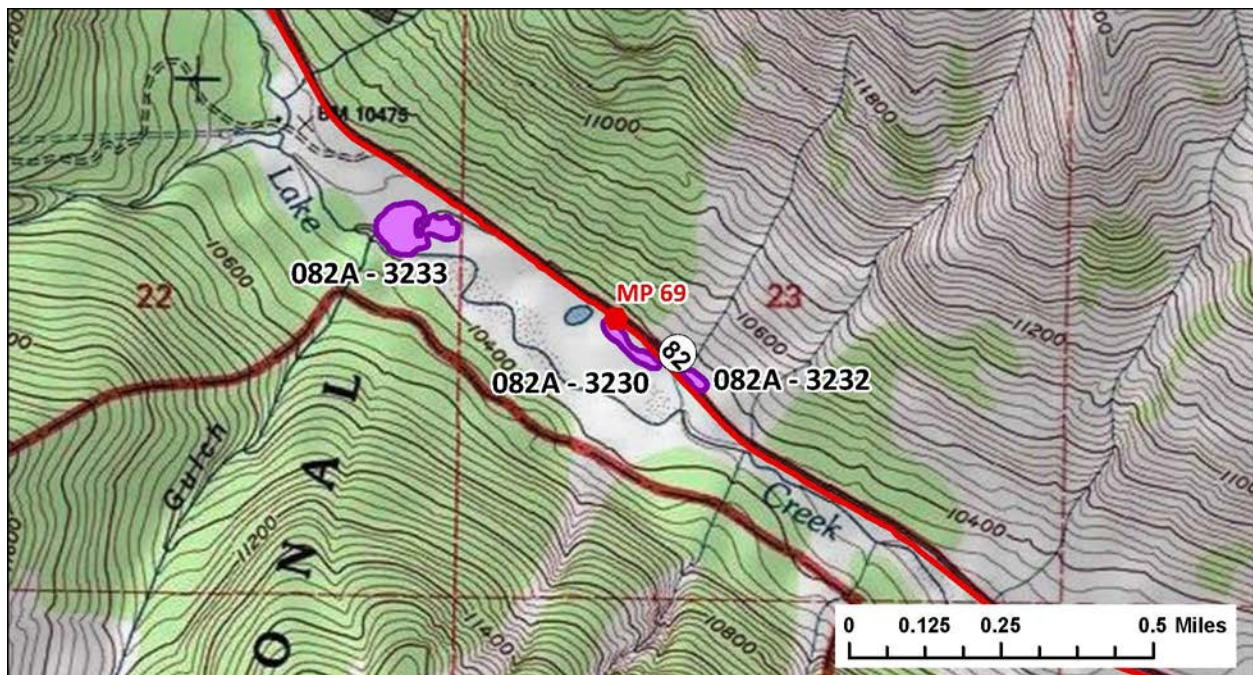
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,374 ft

Size: 1.24 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Site is within the valley continuing up Independence Pass. The water table is at 10 cm, and mucky peat exceeds 40 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	8	62.5
DECE	<i>Deschampsia cespitosa</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	6	17.5
SAMO2	<i>Salix monticola</i>	5	7.5
B EGL	<i>Betula glandulosa</i>	4	3.5
MECI3	<i>Mertensia ciliata</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	3	1.5
MIMUL	<i>Mimulus</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	3	1.5
ABBI3	<i>Abies bifolia</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-BRASS	<i>Brassicaceae</i>	1	0.1
STELL	<i>Stellaria</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 082A - 3232

Nearest Milepoint: SH 82, MP 69

Location: Near Independence Pass

Surveyed Date: 8/13/2017

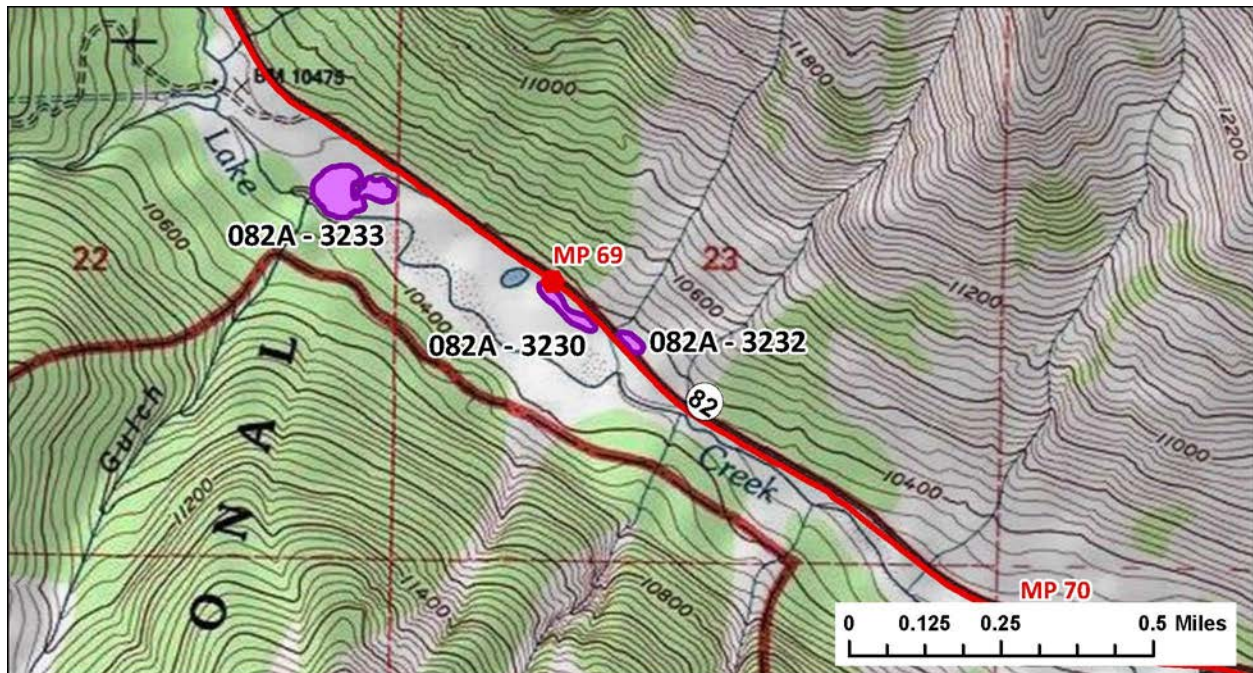
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,371 ft

Size: 0.50 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Fen is located near the side of the highway at the base of a peak. The site drains into culvert. Water table is at 10 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
POLEM	<i>Polemonium</i>	3	1.5
CAST22	<i>Carex stevenii</i>	2	0.5
CAVE6	<i>Carex vesicaria</i>	2	0.5
LUZUL	<i>Luzula</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
EQAR	<i>Equisetum arvense</i>	1	0.1
MIMUL	<i>Mimulus</i>	1	0.1
PEGR2	<i>Pedicularis groenlandica</i>	1	0.1
SETR	<i>Senecio triangularis</i>	1	0.1

Fen Polygon: 082A - 3233

Nearest Milepoint: SH 82, MP 69

Location: Near Independence Pass

Surveyed Date: 8/13/2017

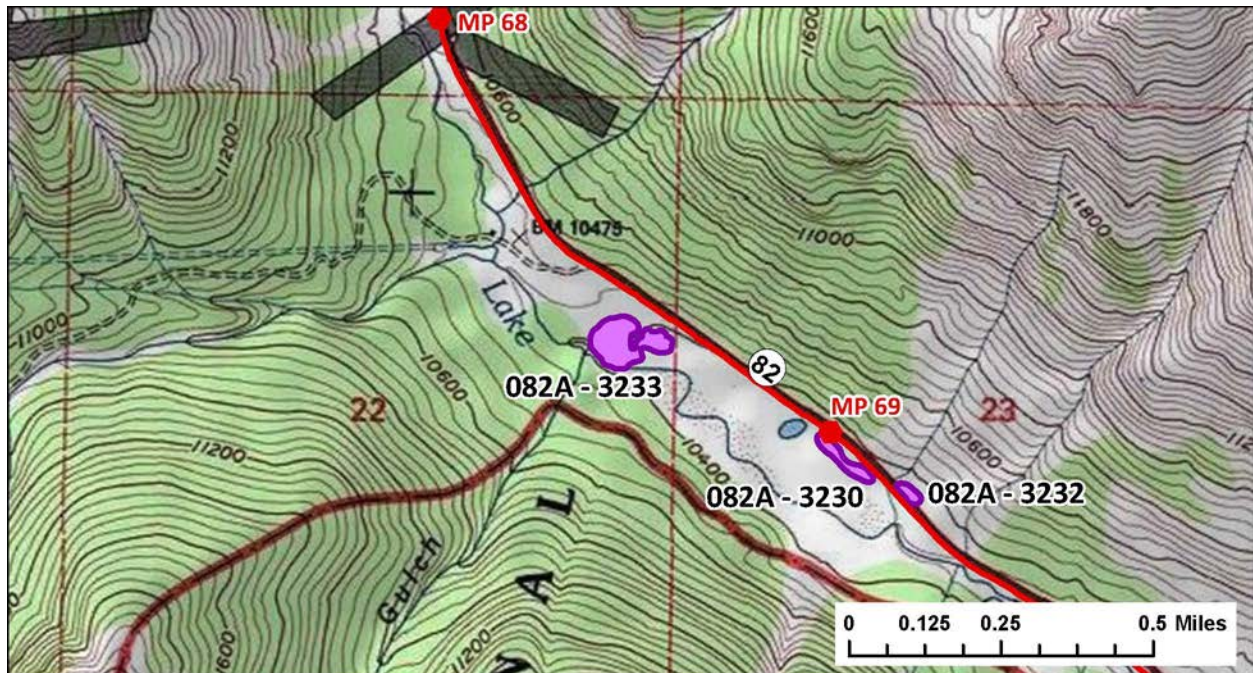
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,423 ft

Size: 4.39 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Fen is just below edge of highway and above river floodplain. Greater than 40 cm of peat and mucky peat. Groundwater at 5 cm. Fen is dominated by *Salix* species with a few open patches of *Carex* species.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
SAWO	<i>Salix wolfii</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
SAMO2	<i>Salix monticola</i>	5	7.5
B EGL	<i>Betula glandulosa</i>	4	3.5
CAREX	<i>Carex</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5
BRAR20	<i>Brexa arvensis</i>	1	0.1
CAUT	<i>Carex utriculata</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
F-BRASS	<i>Brassicaceae</i>	1	0.1
GATRS2	<i>Galium trifidum</i> ssp. <i>Subbiflorum</i>	1	0.1
MIMUL	<i>Mimulus</i>	1	0.1

Fen Polygon: 082A - 3234

Nearest Milepoint: SH 82, MP 66

Location: On Lackawanna Trail off of Independence Pass

Surveyed Date: 8/13/2017

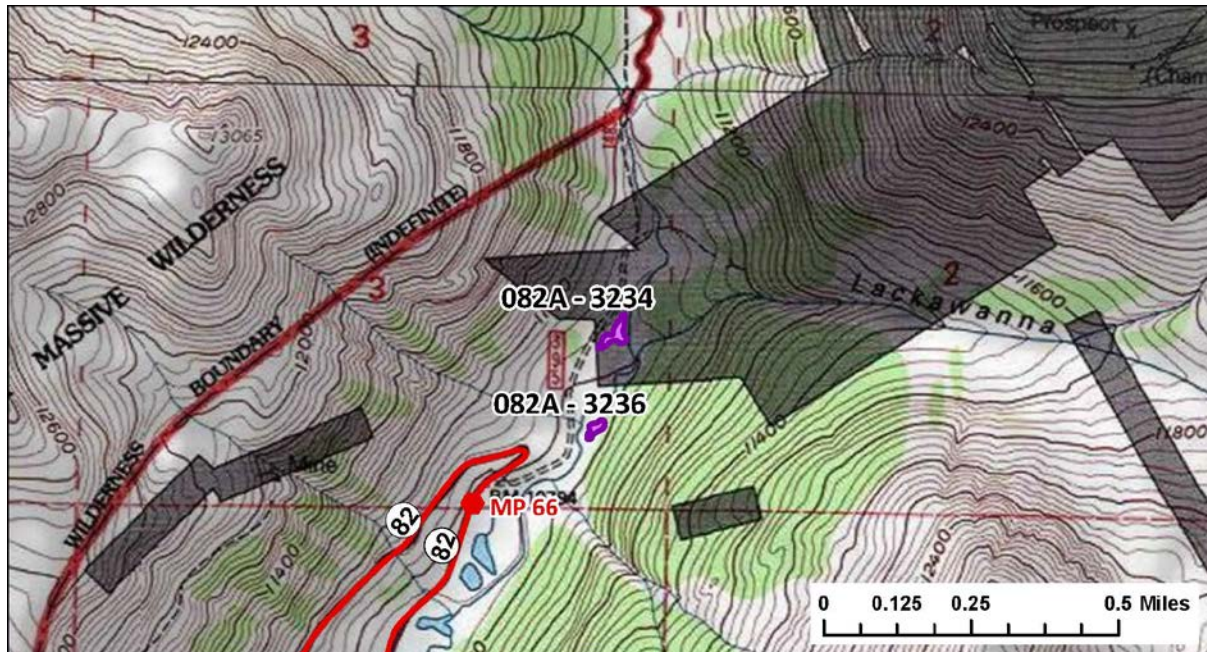
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,827 ft

Size: 0.65 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Private property



Description: Top 30 cm of the soil pit is black mucky peat, turning to brown peat below that. The fen is sloping and water drains into the creek. Fen is part of the wetland corridor that runs down the valley. Site is dominated by *Salix planifolia*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CADI6	<i>Carex disperma</i>	6	17.5
MECI3	<i>Mertensia ciliata</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
SAMO2	<i>Salix monticola</i>	5	7.5
SWPE	<i>Swertia perennis</i>	4	3.5
ACCO4	<i>Aconitum columbianum</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
THAL	<i>Thalictrum alpinum</i>	2	0.5
ANEMO	<i>Anemone</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
PEGR2	<i>Pedicularis groenlandica</i>	1	0.1
SETR	<i>Senecio triangularis</i>	1	0.1

Fen Polygon: 082A - 3236

Nearest Milepoint: SH 82, MP 66

Location: On Lackawanna Trail off of Independence Pass

Surveyed Date: 8/13/2017

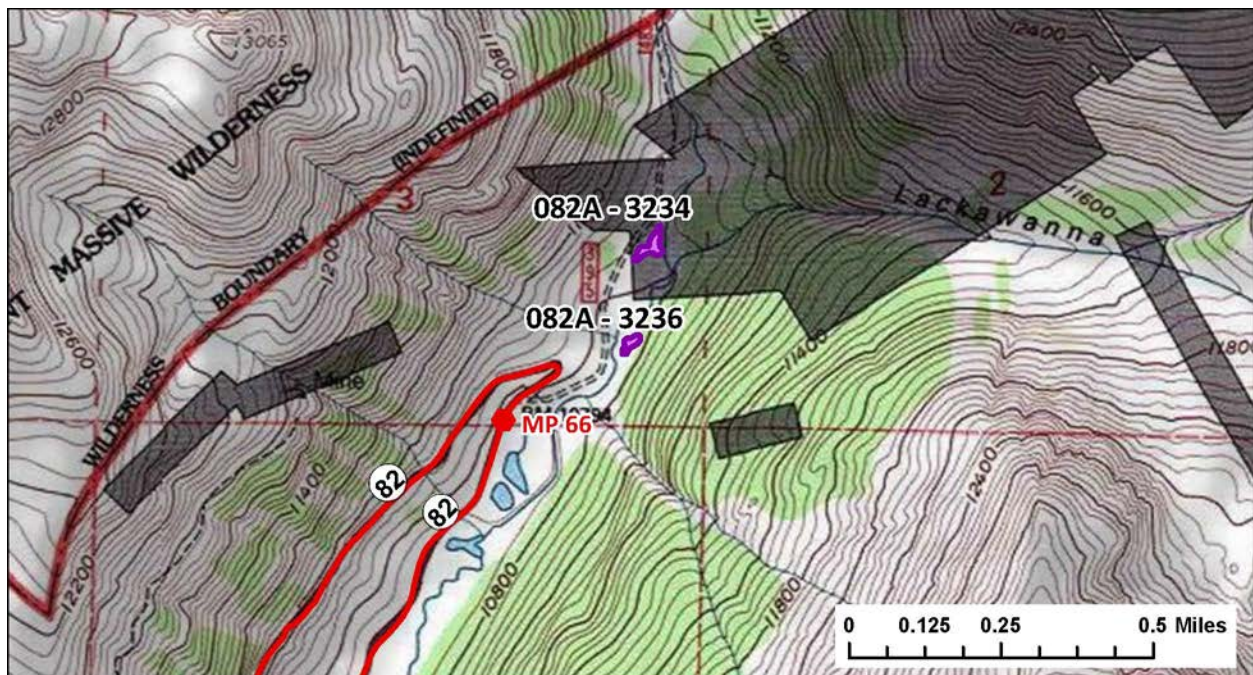
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,794 ft

Size: 0.32 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Site occurs downhill from switchback on Highway 82. Creek borders polygon, with some standing water within the polygon. The water table is at the surface. *Sphagnum* present with a cover class of 3 (>1-2% area cover).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CASC12	<i>Carex scopulorum</i>	5	7.5
B EGL	<i>Betula glandulosa</i>	4	3.5
JUTR4	<i>Juncus triglumis</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
BIVI2	<i>Bistorta vivipara</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>Ater</i>	3	1.5
JUME3	<i>Juncus mertensianus</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CACA12	<i>Carex capillaris</i>	2	0.5
CADIG	<i>Carex dioica</i> ssp. <i>Gynocrates</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	2	0.5
THAL	<i>Thalictrum alpinum</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAU3	<i>Carex aurea</i>	1	0.1
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
F-GENTI	<i>Gentianaceae</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1
PODI2	<i>Potentilla diversifolia</i>	1	0.1
POTEN	<i>Potentilla</i>	1	0.1

Fen Polygon: 082A - 3237

Nearest Milepoint: SH 82, MP 62

Location: Mountain Boy Gulch, on Independence Pass

Surveyed Date: 8/14/2017

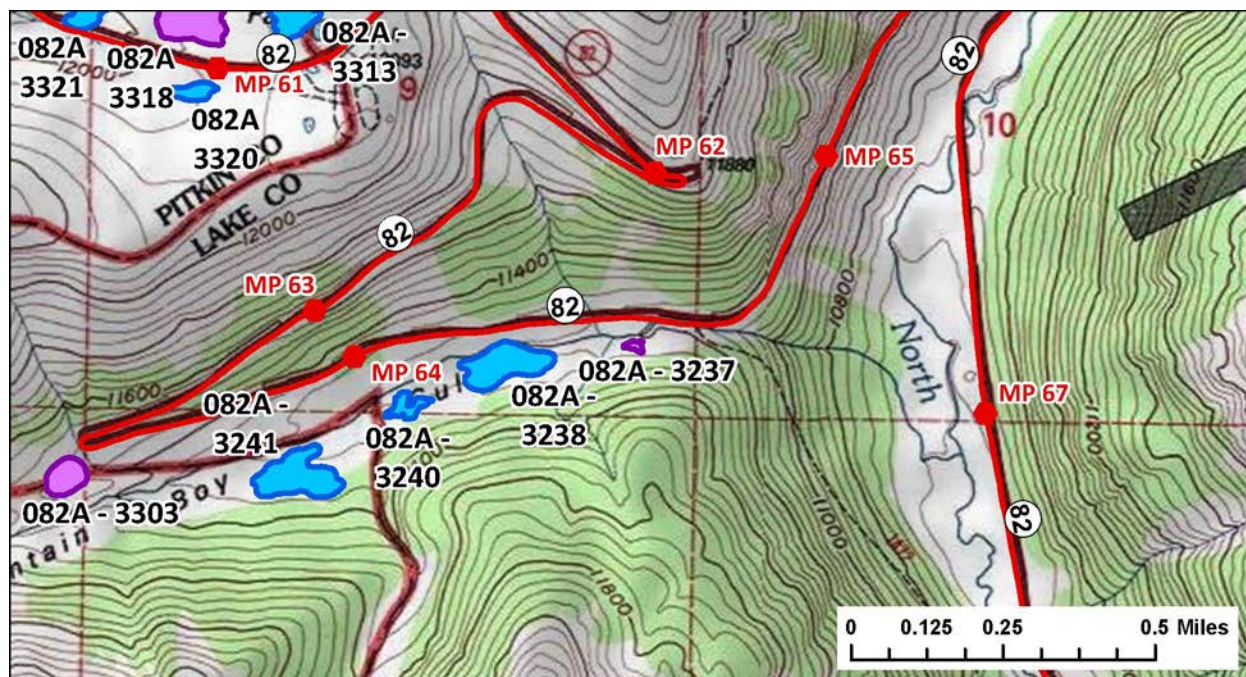
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 11,247 ft

Size: 0.24 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Site is across the creek from road. Occurs within valley and is on a steep slope. Patchy with *Salix*, but mostly forbs and grasses predominate. A couple pools of standing water drain into creek. Water table is at the surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
DECE	<i>Deschampsia cespitosa</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CASC12	<i>Carex scopulorum</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
ANEMO	<i>Anemone</i>	4	3.5
CAIL	<i>Carex illota</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SETR	<i>Senecio triangularis</i>	4	3.5
SWPE	<i>Swertia perennis</i>	4	3.5
ERPEC	<i>Erigeron peregrinus ssp. callianthemus</i>	3	1.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
ARRY	<i>Arnica rydbergii</i>	1	0.1

Fen Polygon: 082A - 3240

Nearest Milepoint: SH 82, MP 64

Location: Mountain Boy Gulch, on Independence Pass

Surveyed Date: 8/14/2017

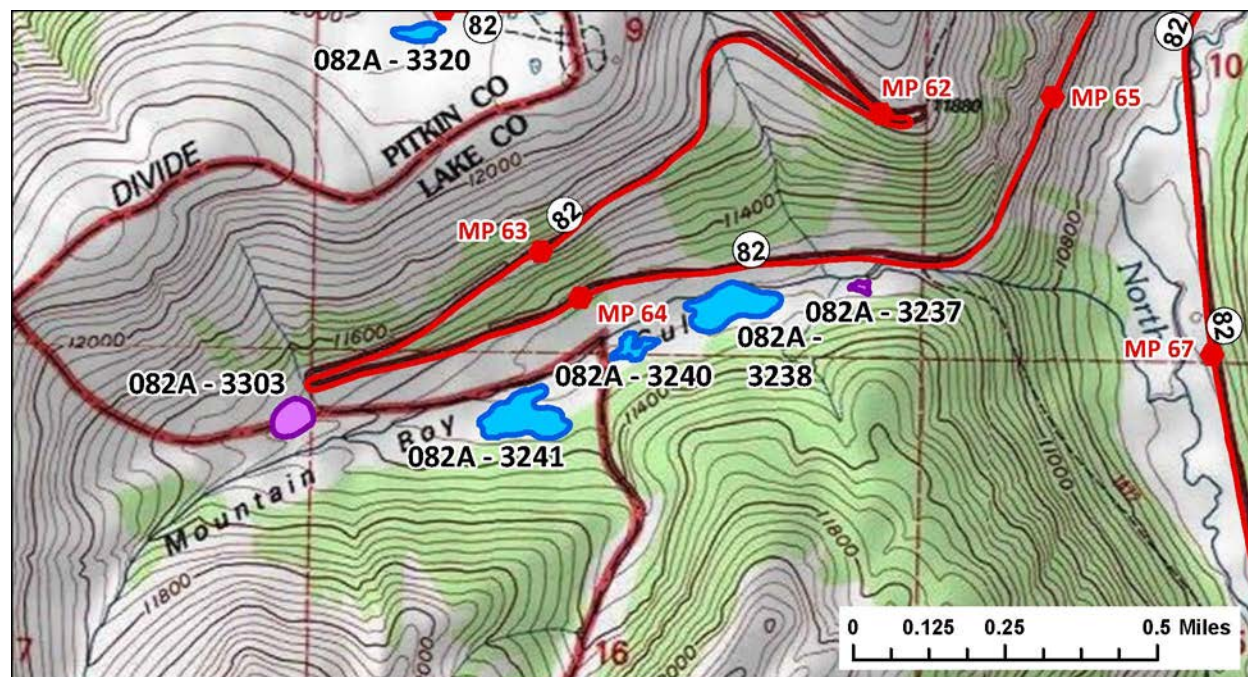
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 11,302 ft

Size: 1.04 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Probable fen. Soil core had 40 cm borderline peat, with traces of clay below 20 cm. Shrubby *Salix* patches in graminoid and herbaceous wet meadow on a slight slope.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CAUT	<i>Carex utriculata</i>	5	7.5
ELEOC	<i>Eleocharis</i>	5	7.5
CASAL2	<i>Carex saxatilis</i> ssp. <i>laxa</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
ERPEC	<i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
F-ASTER	<i>Asteraceae</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
PODI2	<i>Potentilla diversifolia</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ACCO4	<i>Aconitum columbianum</i>	2	0.5
BIVI2	<i>Bistorta vivipara</i>	2	0.5
CAOC4	<i>Castilleja occidentalis</i>	2	0.5
ERAN6	<i>Eriophorum angustifolium</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
F-APIAC	<i>Apiaceae</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
GEAL6	<i>Gentianodes algida</i>	1	0.1

Fen Polygon: 082A - 3303

Nearest Milepoint: SH 82, MP 63

Location: Mountain Boy Gulch, on Independence Pass

Surveyed Date: 8/14/2017

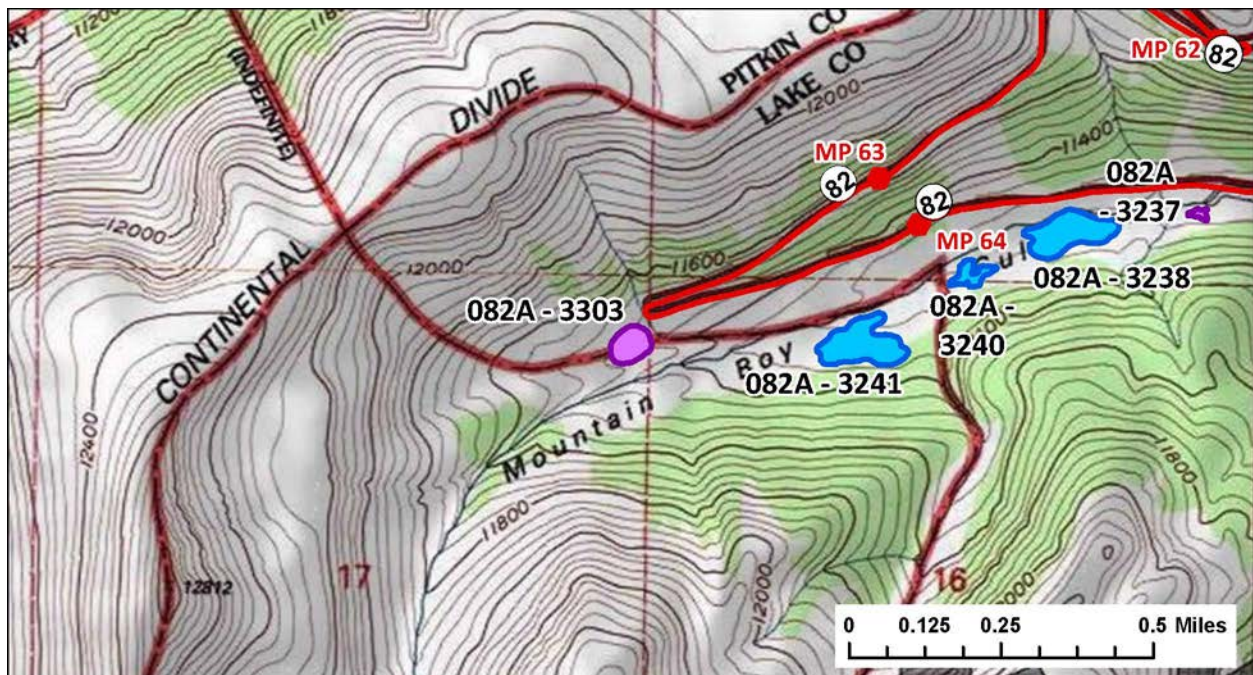
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 11,506 ft

Size: 1.99 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Fairly steep sloping fen. Pockets of standing water. Cover is roughly half *Salix planifolia* and half herbaceous. Greater than 40 cm brown mucky peat. Site drains into the creek. About 25 m from the switchback on highway 82.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
DECE	<i>Deschampsia cespitosa</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CASC12	<i>Carex scopulorum</i>	5	7.5
CAREX	<i>Carex</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
JUME3	<i>Juncus mertensianus</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3304

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

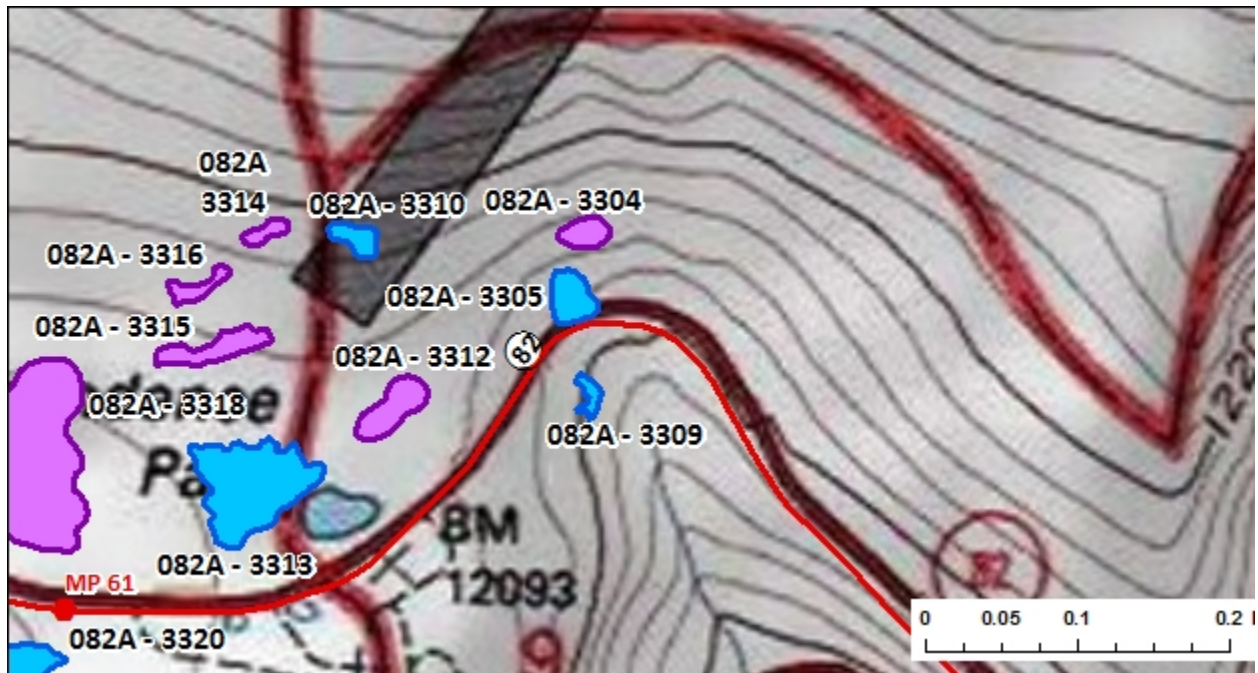
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 12,165 ft

Size: 0.33 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: A terraced pocket of fen on a steep hillside. Standing water present. Adjacent to a seep. Site is a fen and is part of the wetland complex that is split by highway 82. Greater than 40 cm of organic soil.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
ERIGE2	<i>Erigeron</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	4	3.5
ARNIC	<i>Arnica</i>	3	1.5
CAIL	<i>Carex illota</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
JUDR	<i>Juncus drummondii</i>	3	1.5
ANEMO	<i>Anemone</i>	2	0.5
CANI2	<i>Carex nigricans</i>	2	0.5
CASC12	<i>Carex scopulorum</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
DAIN	<i>Danthonia intermedia</i>	1	0.1
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1

Fen Polygon: 082A - 3305

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

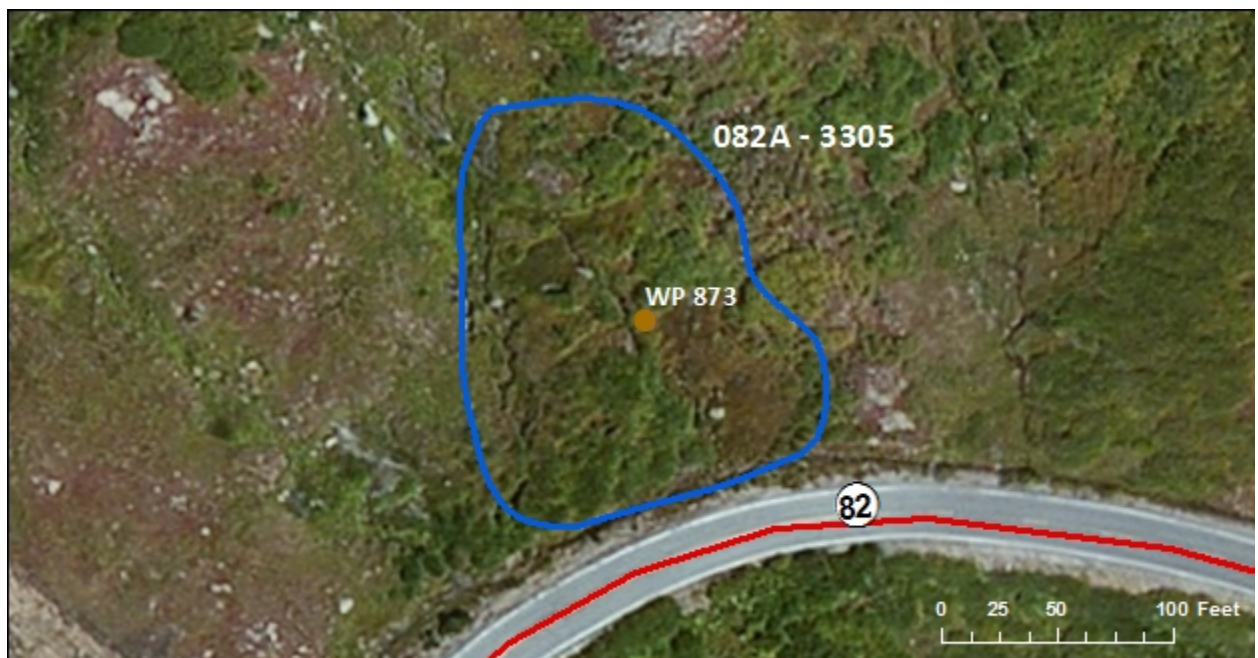
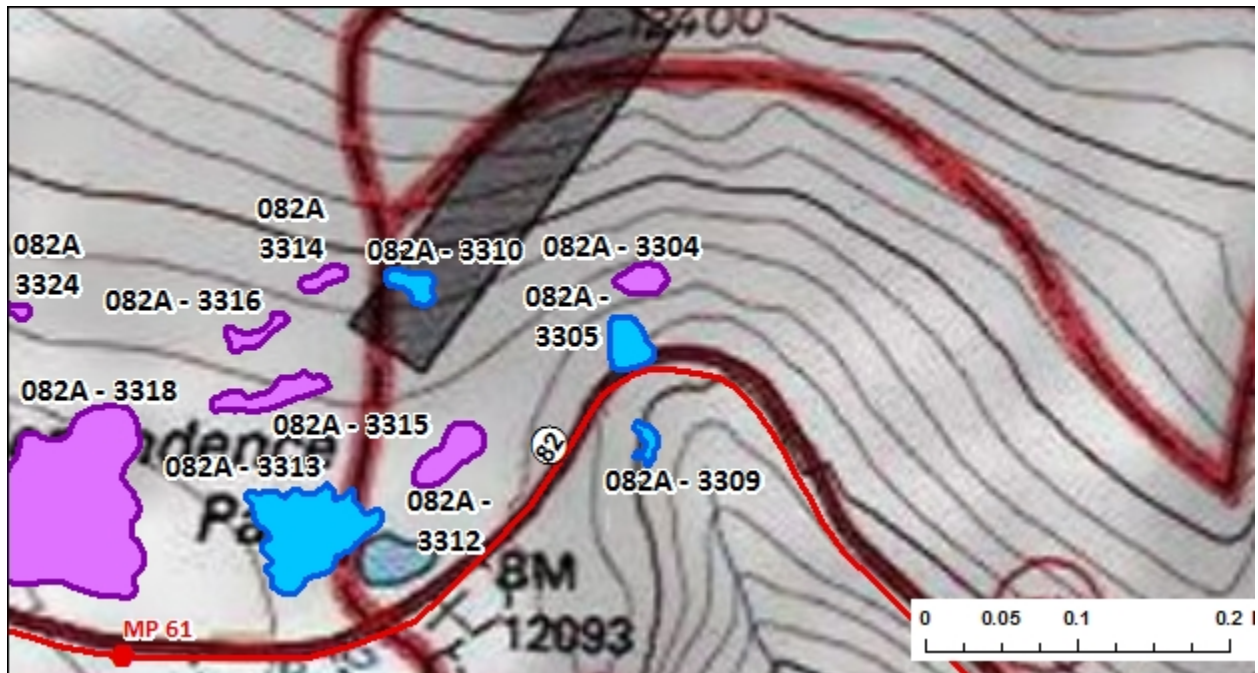
Proximity to Hwy: <5 m (16 ft)

Elevation: 12,110 ft

Size: 0.51 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Probable fen. Soil core had 35 cm peat. Around 35 cm soil gets mucky and has a little gravel. Occurs on huge slope draining under culvert in road. Stream running through middle of polygon. High amount of moss cover. Water table is at surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CASC12	<i>Carex scopulorum</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
SAWO	<i>Salix wolfii</i>	5	7.5
JUME3	<i>Juncus mertensianus</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
CAREX	<i>Carex</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
CADIG	<i>Carex dioica ssp. gynocrates</i>	1	0.1
CASTI2	<i>Castilleja</i>	1	0.1
ELEOC	<i>Eleocharis</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1

Fen Polygon: 082A - 3309

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

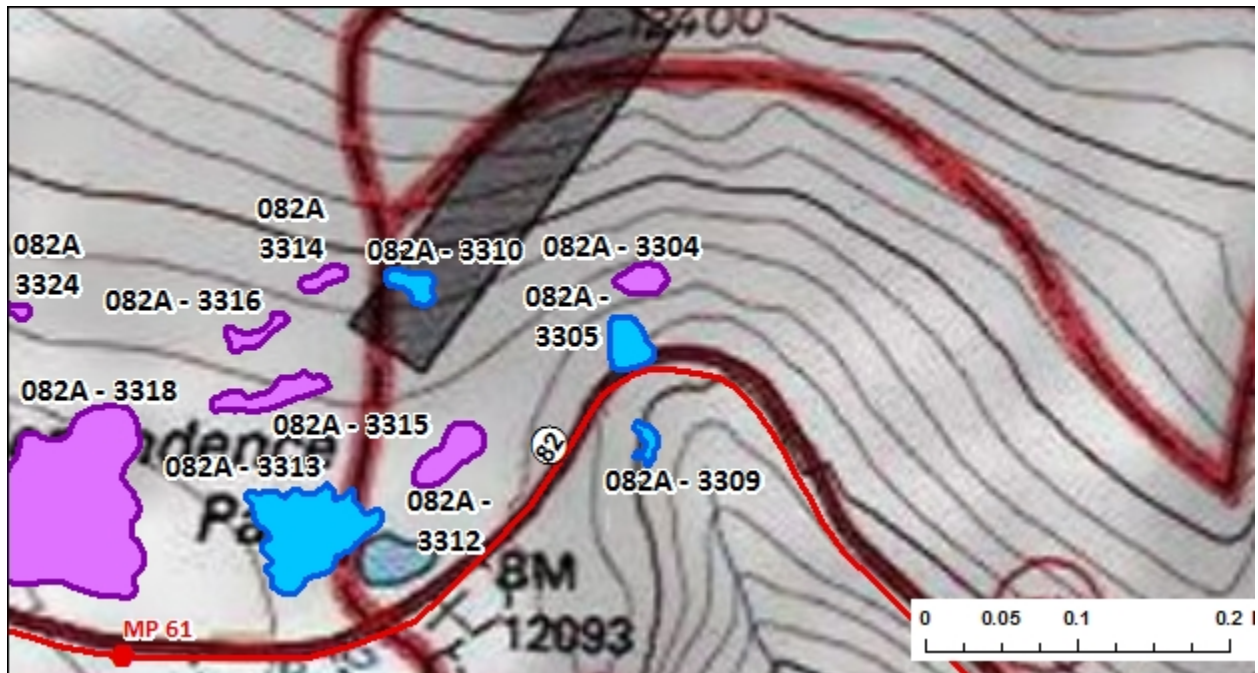
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 12,028 ft

Size: 0.16 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Probable fen. Soil core was peat, transitioning into a mucky mineral soil around 35 cm. Steep sloping fen. Gently flowing surface water over whole site. Site starts just below highway 82.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
F-APIAC	<i>Apiaceae</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	8	62.5
CASC12	<i>Carex scopulorum</i>	7	37.5
PEGR2	<i>Pedicularis groenlandica</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CAST22	<i>Carex stevenii</i>	5	7.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	4	3.5
JUDR	<i>Juncus drummondii</i>	4	3.5
JUME3	<i>Juncus mertensianus</i>	4	3.5
ARRY	<i>Arnica rydbergii</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
SWPE	<i>Swertia perennis</i>	2	0.5
ELEOC	<i>Eleocharis</i>	1	0.1
MIOR2	<i>Micranthes oregana</i>	1	0.1
PHCO9	<i>Phleum commutatum</i>	1	0.1

Fen Polygon: 082A - 3312

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

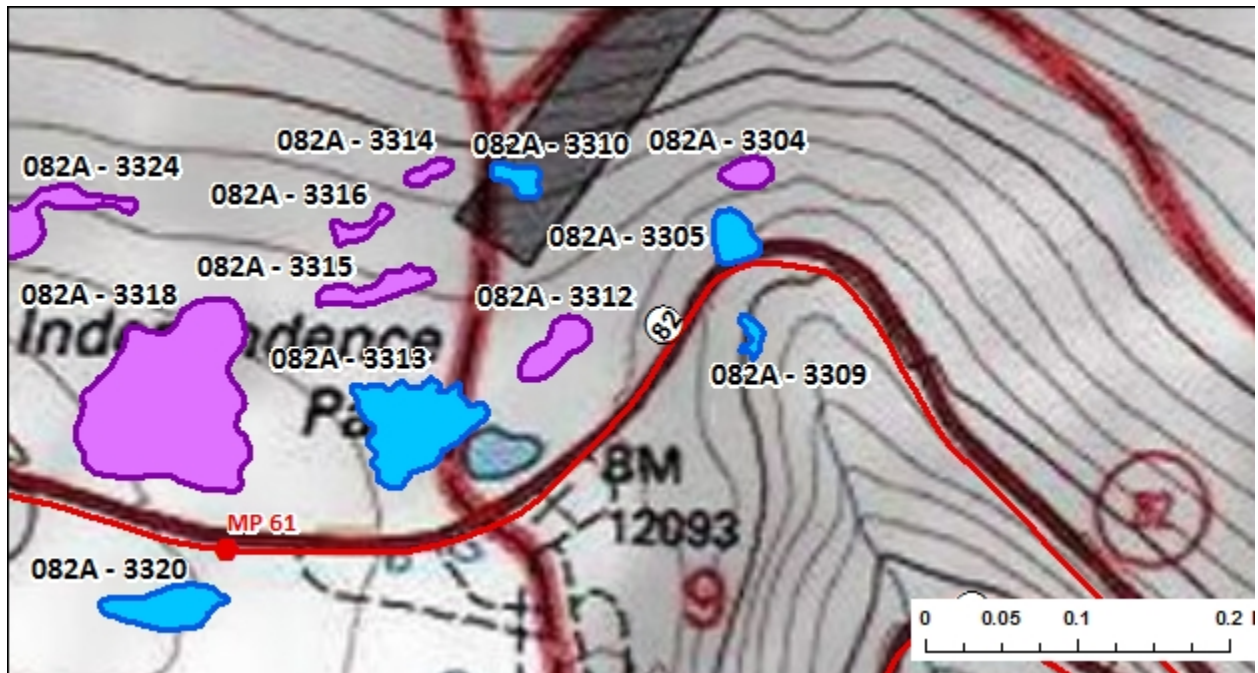
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 12,123 ft

Size: 0.65 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Fen is on a slope, uphill from the road. Standing water within polygon. Dominated by forbs and low standing *Salix planifolia*. Above treeline.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CANI2	<i>Carex nigricans</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	3	1.5
CASTI2	<i>Castilleja</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
F-APIAC	<i>Apiaceae</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
JUME3	<i>Juncus mertensianus</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
CASU12	<i>Castilleja sulphurea</i>	1	0.1
POHU	<i>Podagrostis humilis</i>	1	0.1

Fen Polygon: 082A - 3313

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

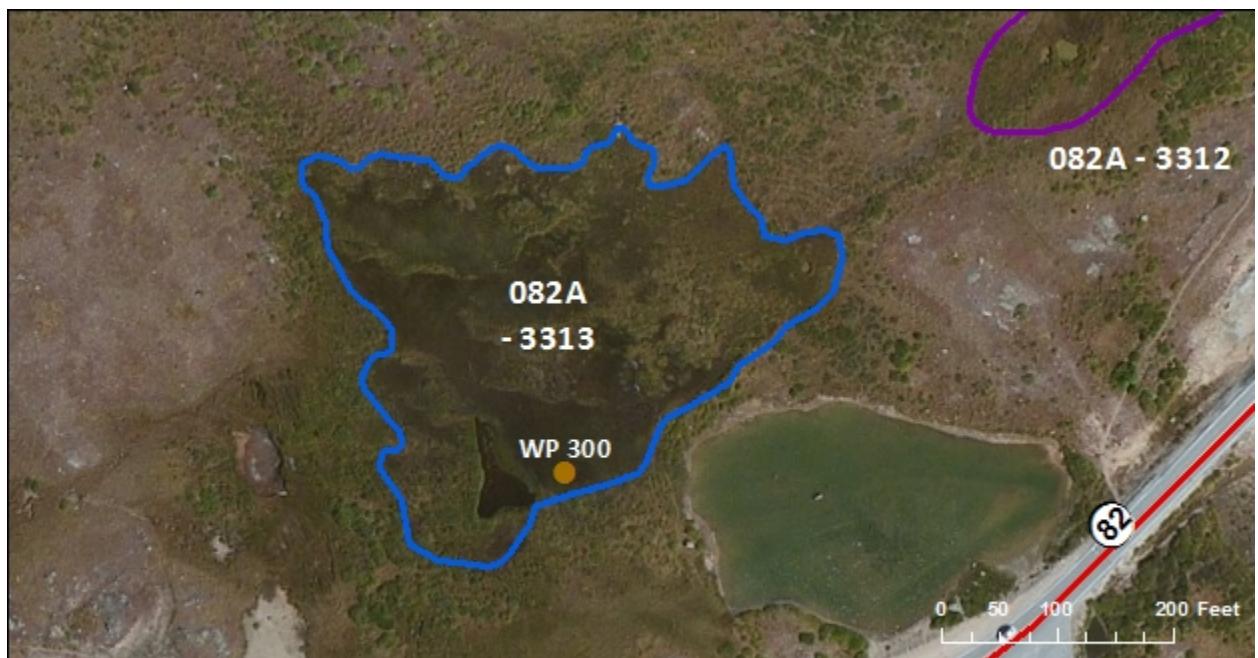
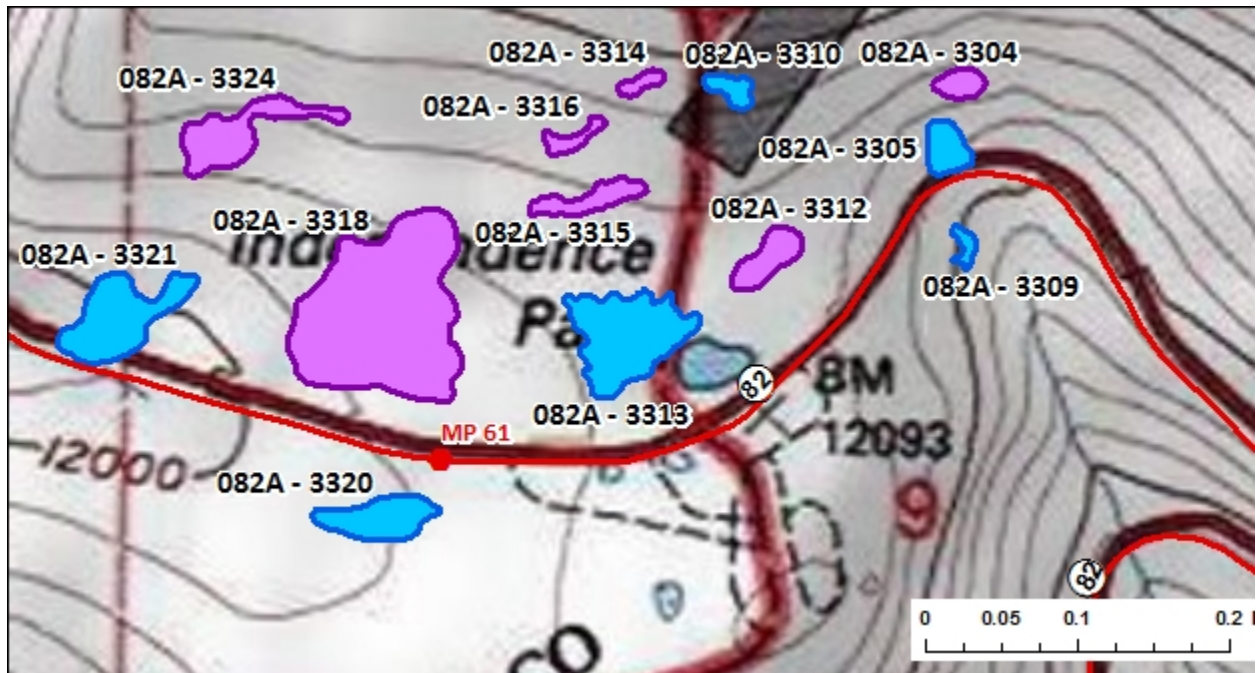
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 12,136 ft

Size: 2.35 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Probable fen. Soil core was borderline peat with some clay. Cyperaceae monoculture meadow with some shrubby *Salix* patches.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
ELQU2	<i>Eleocharis quinqueflora</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CACA11	<i>Carex canescens</i>	5	7.5
CAIL	<i>Carex illota</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
ERIGE2	<i>Erigeron</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
VIOLA	<i>Viola</i>	2	0.5

Fen Polygon: 082A - 3314

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/23/2017

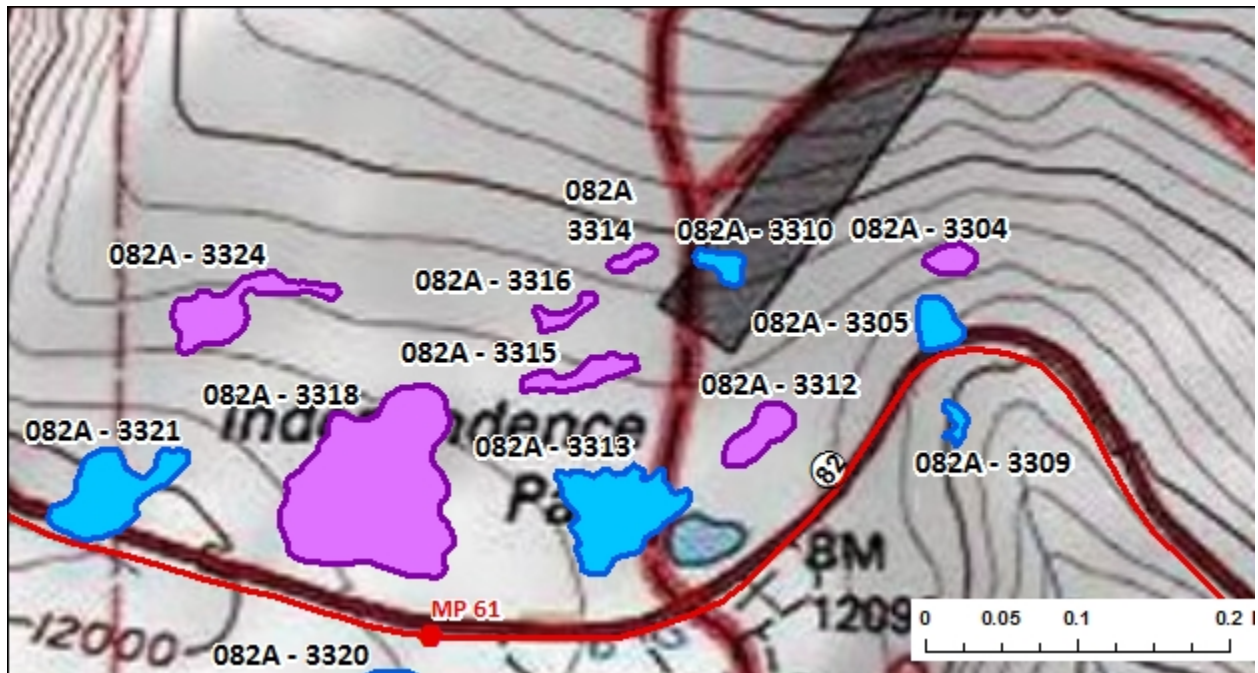
Proximity to Hwy: >200 m (656 ft)

Elevation: 12,234 ft

Size: 0.18 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Small wet sedge fen on hillside above highway pass. Low *Salix planifolia* intermixed.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELEOC	<i>Eleocharis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CALAM	<i>Calamagrostis</i>	4	3.5
CASC12	<i>Carex scopulorum</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3315

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

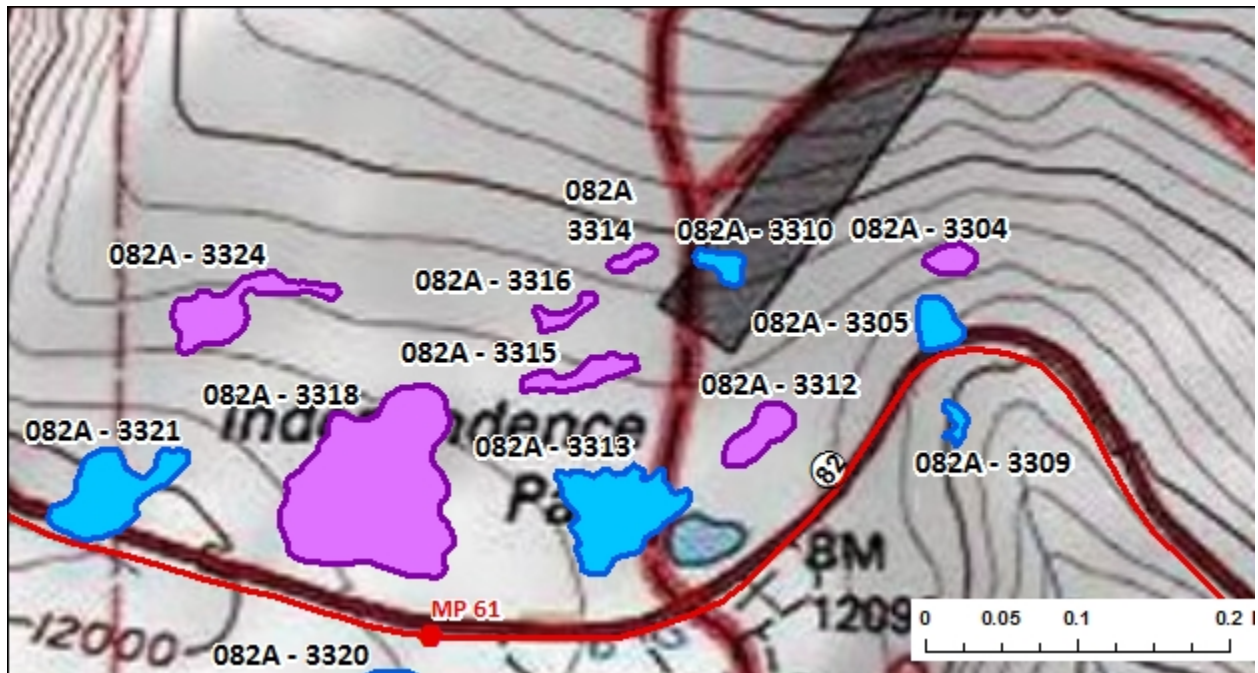
Proximity to Hwy: >200 m (656 ft)

Elevation: 12,152 ft

Size: 0.59 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Sloping fen at the base of a large slope leading to peak. The site is uphill from the road about 250 m and drains into pools along roadside. Greater than 40 cm of brown mucky peat; water table is at the surface.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CASC12	<i>Carex scopulorum</i>	6	17.5
CAREX	<i>Carex</i>	5	7.5
CLRH2	<i>Clementsia rhodantha</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
F-ASTER	<i>Asteraceae</i>	3	1.5
F-APIAC	<i>Apiaceae</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
ERIGE2	<i>Erigeron</i>	2	0.5
CADIG	<i>Carex dioica</i> ssp. <i>gynocrates</i>	1	0.1

Fen Polygon: 082A - 3316

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

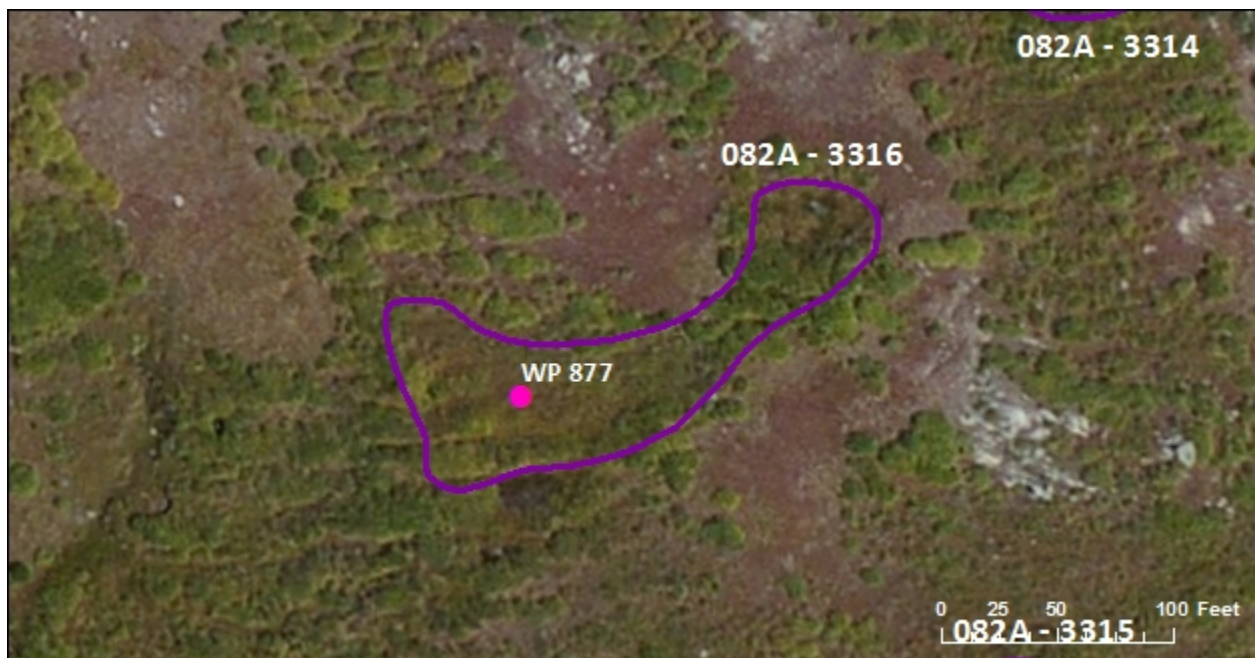
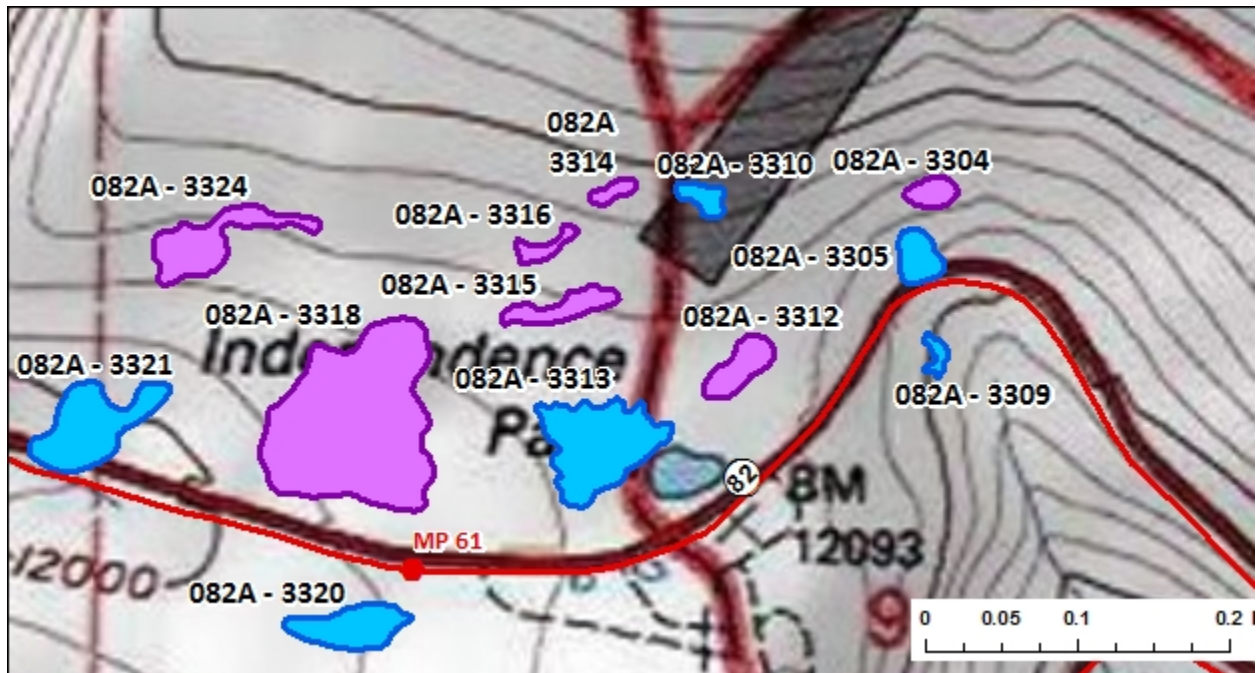
Proximity to Hwy: >200 m (656 ft)

Elevation: 12,178 ft

Size: 0.25 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Sloping fen. Over 40 cm of dark brown mucky peat. Soil is saturated. Fen is dominated by *Caltha leptosepala* and *Salix planifolia*. Fen is part of hillside wetland complex that runs down to the road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PSLE	<i>Psychrophila leptosepala</i>	9	85
SAPL2	<i>Salix planifolia</i>	7	37.5
ANEMO	<i>Anemone</i>	6	17.5
JUME3	<i>Juncus mertensianus</i>	6	17.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
F-APIAC	<i>Apiaceae</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
F-ASTER	<i>Asteraceae</i>	3	1.5
ERIGE2	<i>Erigeron</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CASTI2	<i>Castilleja</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5

Fen Polygon: 082A - 3318

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

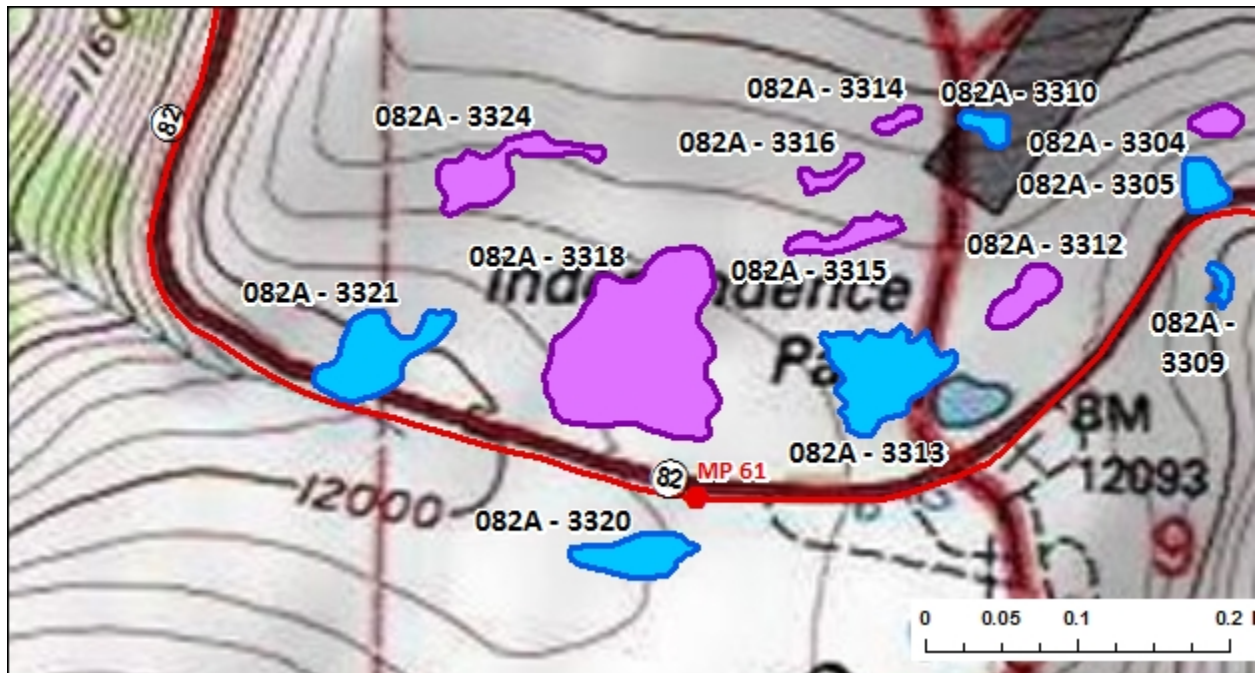
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 12,096 ft

Size: 6.57 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Wet sedge and herbaceous fen meadow with intermixed patches of *Salix*. Pockets of standing water throughout polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
ELEOC	<i>Eleocharis</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CASC12	<i>Carex scopulorum</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
ANNAZ3	<i>Anemonastrum narcissiflorum ssp. zephyrum</i>	3	1.5
BIVI2	<i>Bistorta vivipara</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3320

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/14/2017

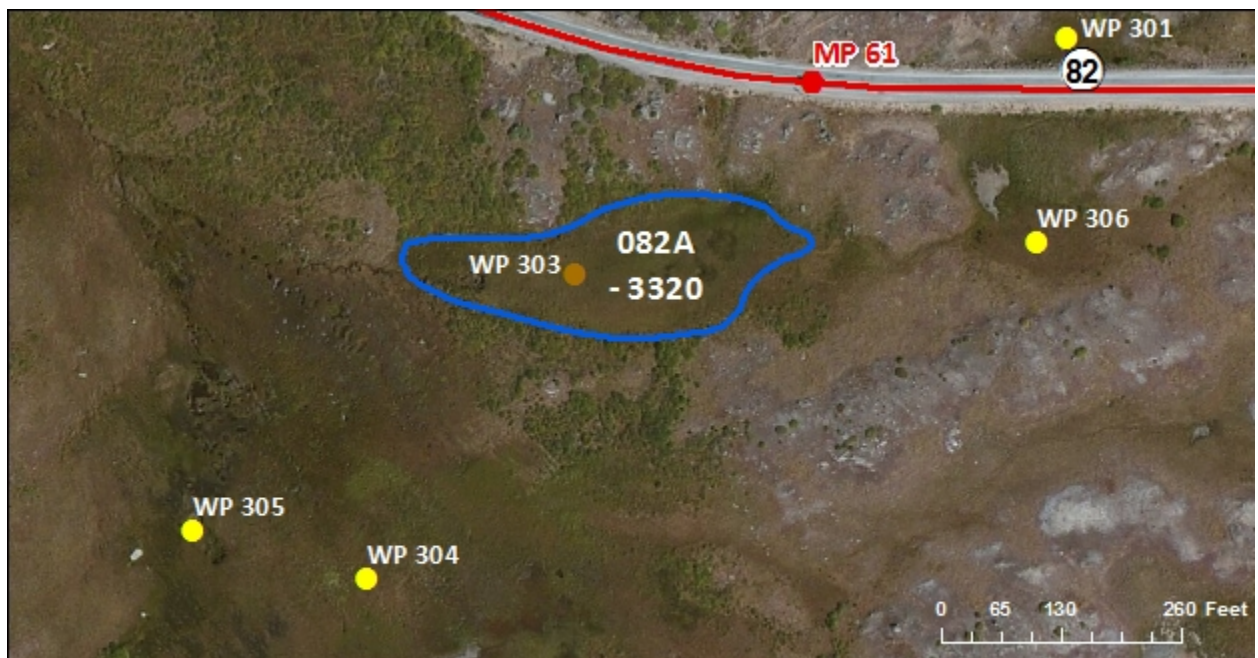
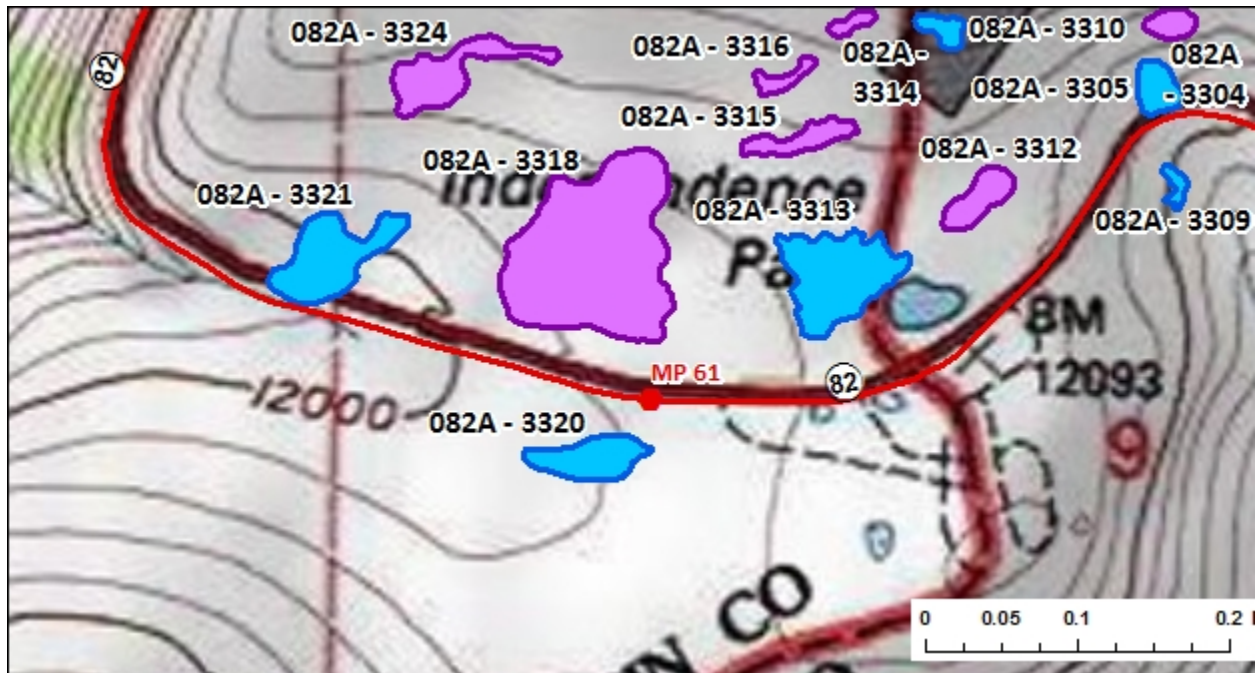
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 12,073 ft

Size: 1.02 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Soil core had borderline peat around 40 cm deep, with traces of clay. Wet meadow with herbaceous vegetation, sedges, and *Salix* patches. Dense moss ground cover.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CASC12	<i>Carex scopulorum</i>	4	3.5
BIVI2	<i>Bistorta vivipara</i>	3	1.5
PESC9	<i>Pedicularis scopulorum</i>	3	1.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5

Fen Polygon: 082A - 3324

Nearest Milepoint: SH 82, MP 61

Location: Independence Pass

Surveyed Date: 8/23/2017

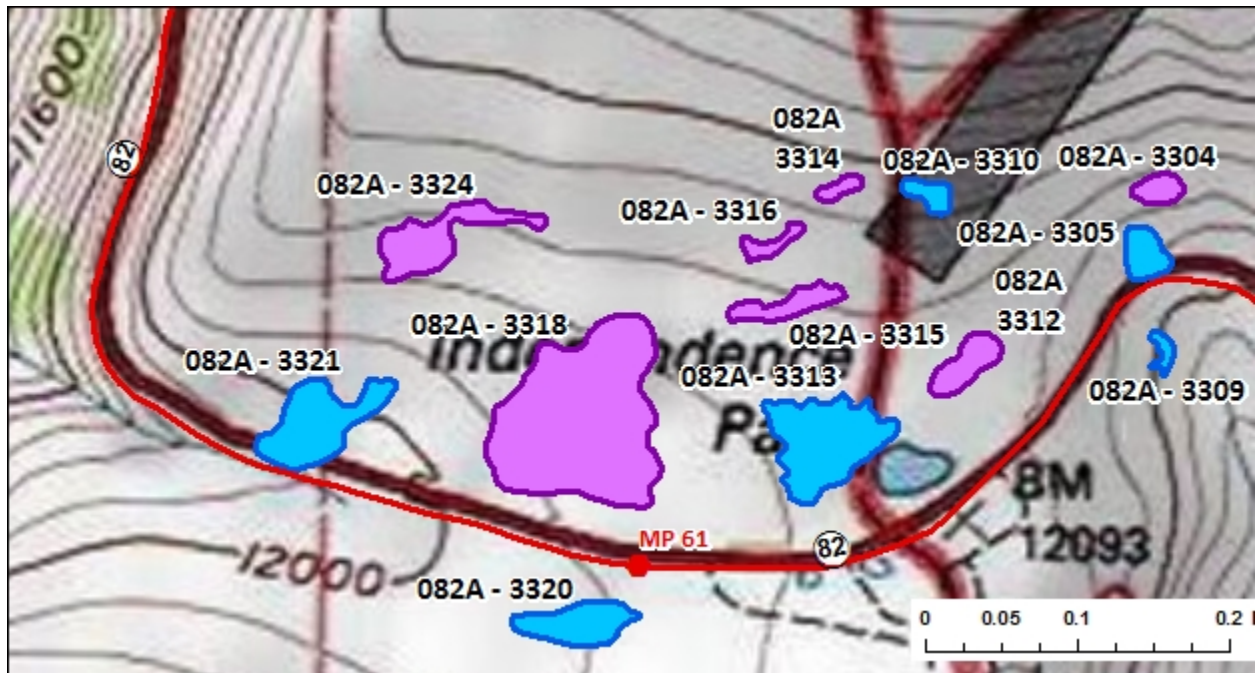
Proximity to Hwy: >200 m (656 ft)

Elevation: 12,146 ft

Size: 1.34 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Small patches of wet sedge and herbaceous fen weaving between drier uplands with tall stands of *Salix planifolia*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
ELQU2	<i>Eleocharis quinqueflora</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CALAM	<i>Calamagrostis</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
CAIL	<i>Carex illota</i>	4	3.5
CAPR22	<i>Carex praeceptorum</i>	4	3.5
CASC12	<i>Carex scopulorum</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
CAMI16	<i>Carex micropoda</i>	2	0.5
CAOC4	<i>Castilleja occidentalis</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PODI2	<i>Potentilla diversifolia</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3326

Nearest Milepoint: SH 82, MP 59

Location: Adjacent to Roaring Fork River, on Independence Pass

Surveyed Date: 8/23/2017

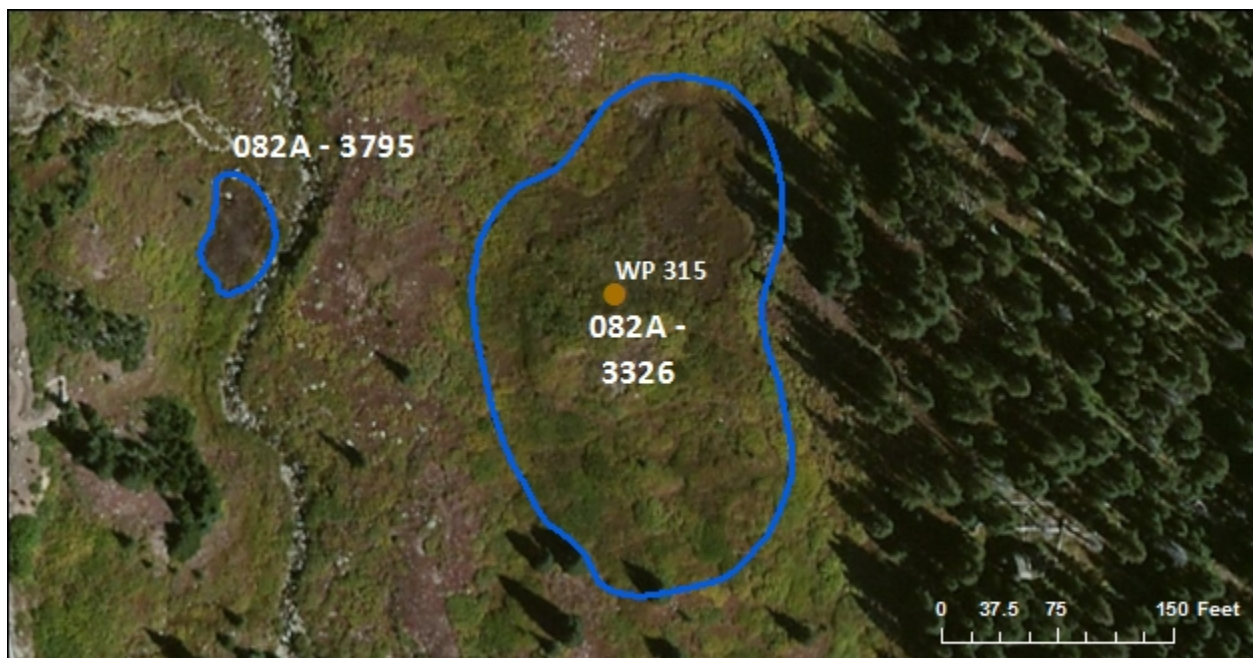
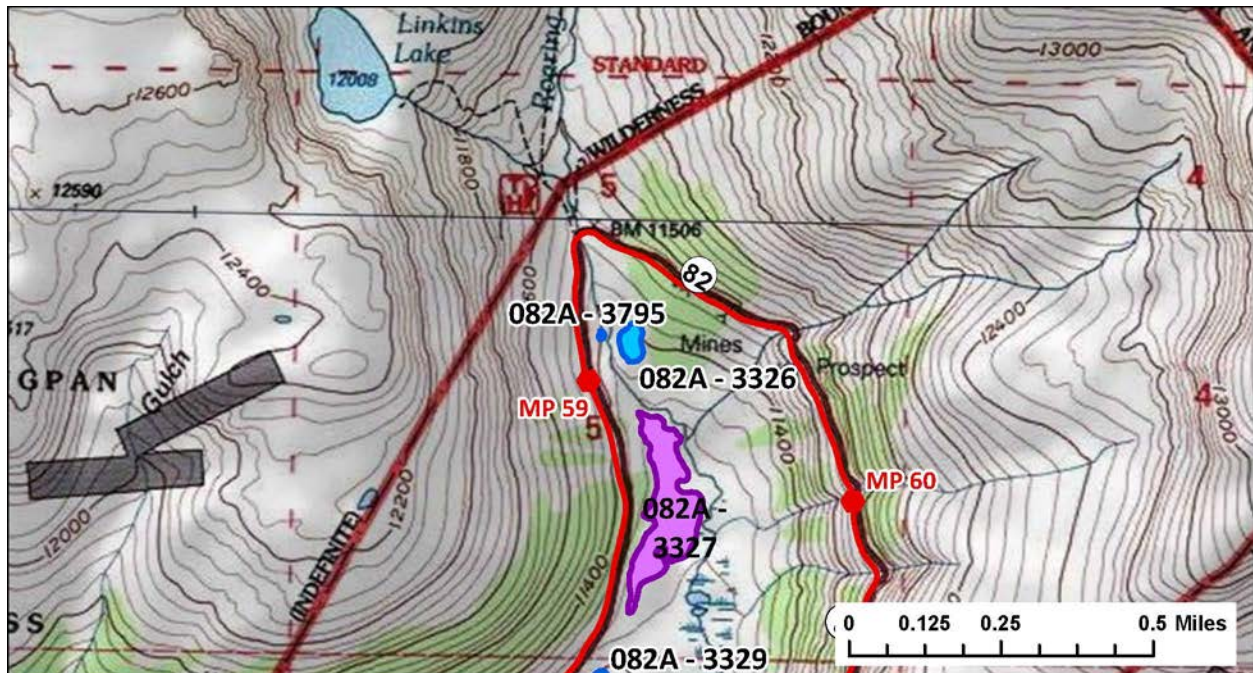
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 11,417 ft

Size: 1.22 acres

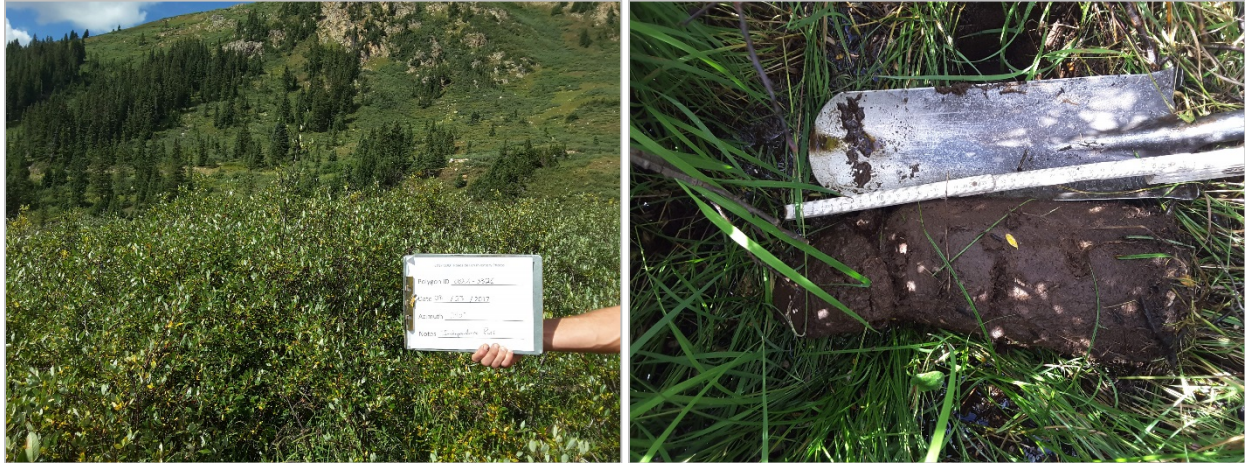
ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Probable fen. Bottom of soil core has borderline organic to clay ratio. Area is a dense *Salix* thicket near dry rocky upland areas. Willow areas are wetter with more organic content in soil.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CASC12	<i>Carex scopulorum</i>	6	17.5
CACA4	<i>Calamagrostis canadensis</i>	5	7.5
CASAL2	<i>Carex saxatilis ssp. laxa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
VACE	<i>Vaccinium cespitosum</i>	4	3.5
ARMO4	<i>Arnica mollis</i>	3	1.5
BIBI5	<i>Bistorta bistortoides</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
LUPA4	<i>Luzula parviflora</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
ACCO4	<i>Aconitum columbianum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3327

Nearest Milepoint: SH 82, MP 59

Location: Adjacent to Roaring Fork River, on Independence Pass

Surveyed Date: 8/23/2017

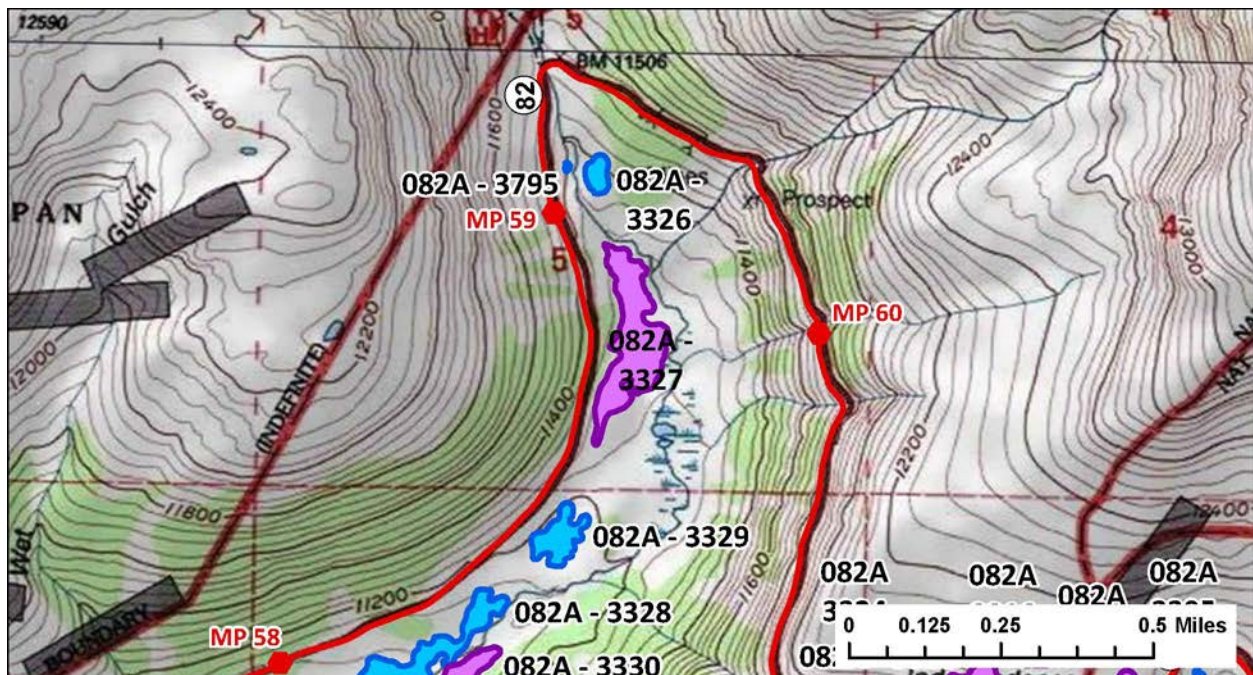
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 11,319 ft

Size: 10.93 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen is a large swath of sedge and herbaceous lowland with occasional stands of *Salix planifolia*. High amount of moss cover. Good peat soil.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CAUT	<i>Carex utriculata</i>	6	17.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
ELEOC	<i>Eleocharis</i>	4	3.5
F-ASTER	<i>Asteraceae</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CACA12	<i>Carex capillaris</i>	3	1.5
CAREX	<i>Carex</i>	3	1.5
CASC12	<i>Carex scopulorum</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
LUPA4	<i>Luzula parviflora</i>	3	1.5
PODI2	<i>Potentilla diversifolia</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
VAED	<i>Valeriana edulis</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
BIVI2	<i>Bistorta vivipara</i>	2	0.5

Fen Polygon: 082A - 3328

Nearest Milepoint: SH 82, MP 58

Location: Adjacent to Roaring Fork River, on Independence Pass

Surveyed Date: 8/14/2017

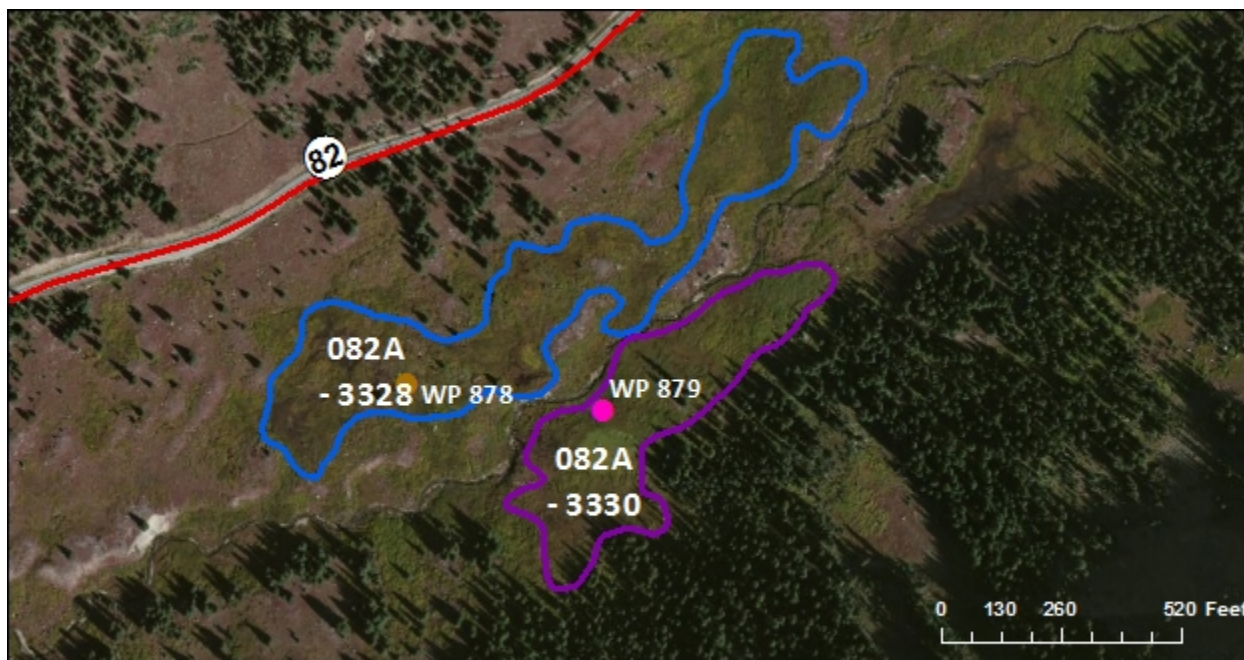
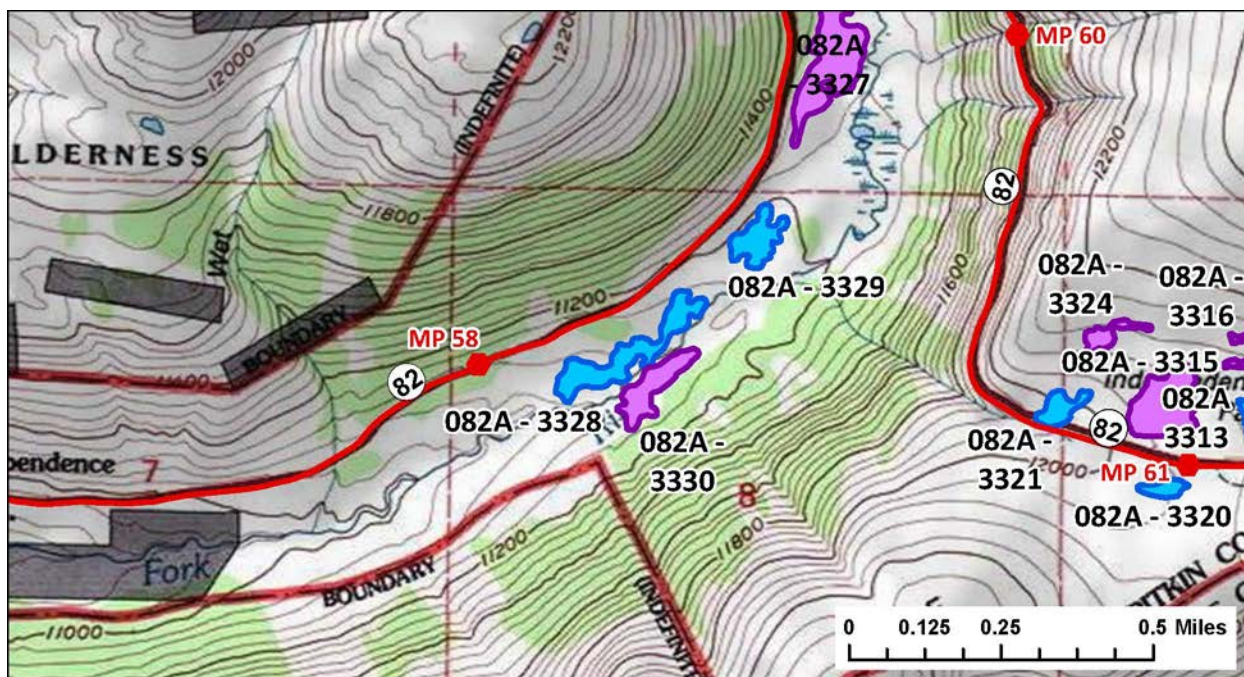
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 11,112 ft

Size: 6.57 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Borderline fen; soil core had high organic content with some clay. Fairly steep sloping site. Pockets of standing water. Roughly half *Salix planifolia* and half herbaceous cover. Site drains into the creek. About 20 m from the switchback on highway 82.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CASC12	<i>Carex scopulorum</i>	5	7.5
ELEOC	<i>Eleocharis</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
SABR	<i>Salix brachycarpa</i>	5	7.5
F-APIAC	<i>Apiaceae</i>	4	3.5
PIPU	<i>Picea pungens</i>	4	3.5
ACCO4	<i>Aconitum columbianum</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
VACCI	<i>Vaccinium</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
DAIN	<i>Danthonia intermedia</i>	2	0.5
EREX4	<i>Erigeron eximius</i>	2	0.5
FRAGA	<i>Fragaria</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
SETR	<i>Senecio triangularis</i>	2	0.5
POHI6	<i>Potentilla hippiana</i>	1	0.1
STELL	<i>Stellaria</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 082A - 3329

Nearest Milepoint: SH 82, MP 58

Location: Adjacent to Roaring Fork River, on Independence Pass

Surveyed Date: 8/14/2017

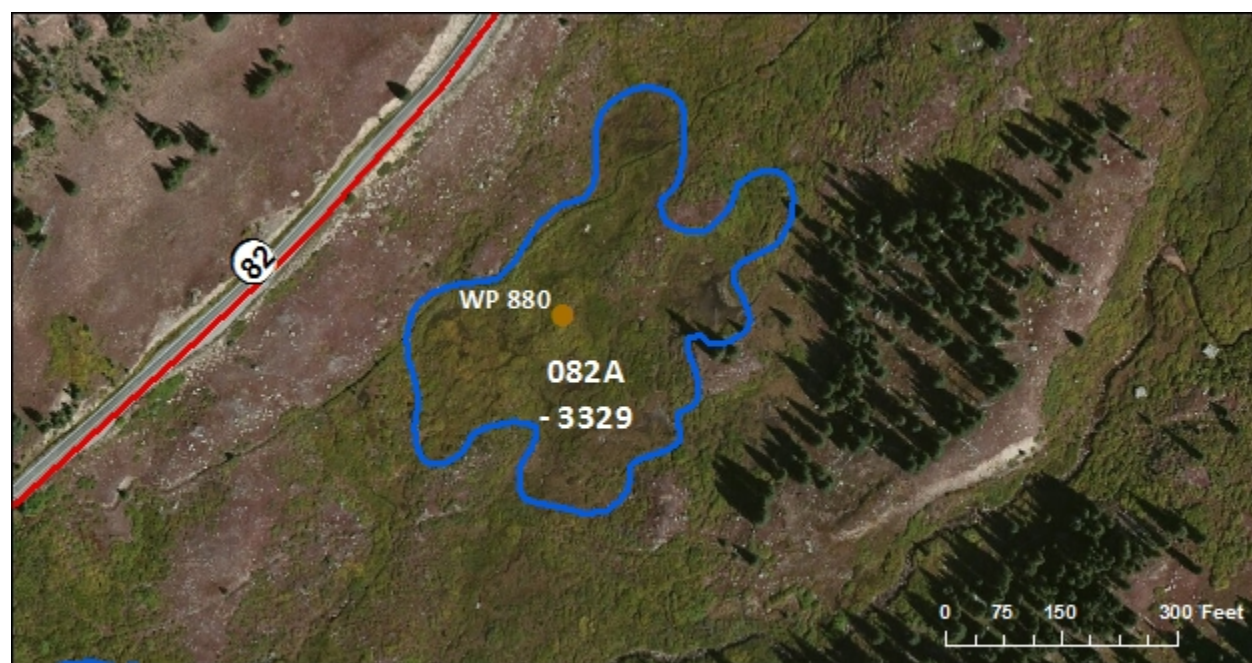
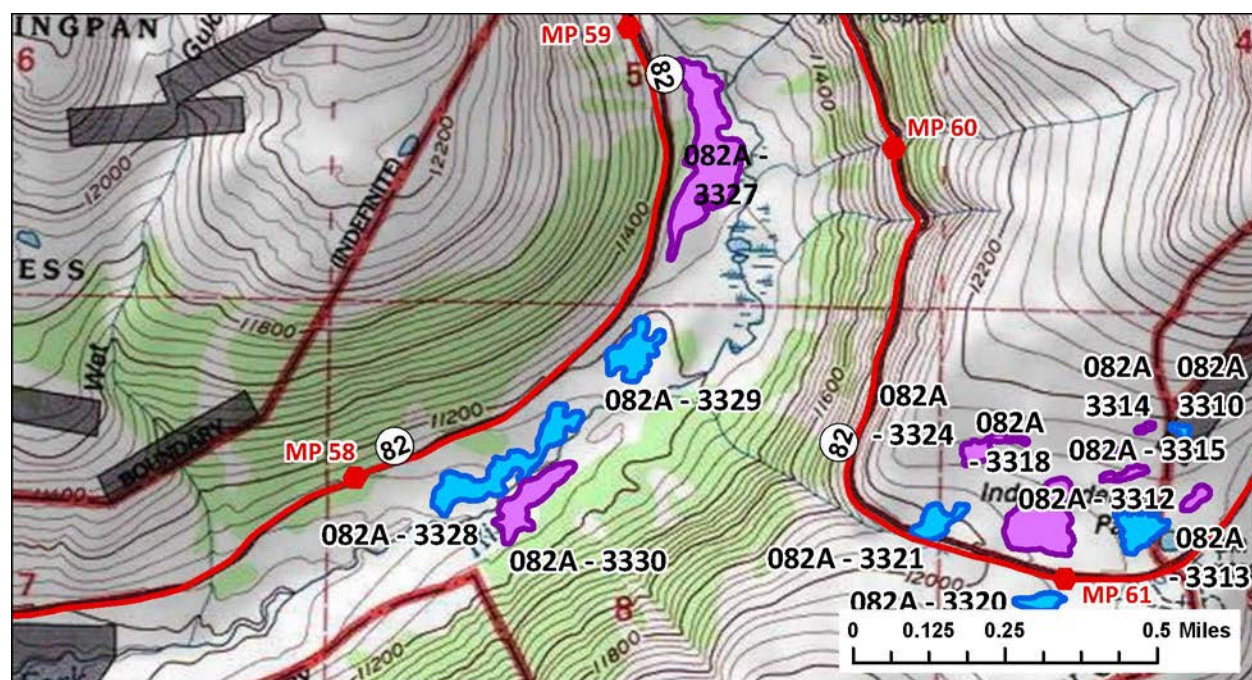
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 11,217 ft

Size: 3.21 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Probable fen. Soil core taken at site was 30 cm peat followed by 10 cm of mucky mineral soil. Sloping fen, about 75m down from hwy 82. Several seep channels run through the fen and drain into the creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
DECE	<i>Deschampsia cespitosa</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAWO	<i>Salix wolfii</i>	6	17.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
GETH	<i>Gentianopsis thermalis</i>	4	3.5
JUME3	<i>Juncus mertensianus</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
CAREX	<i>Carex</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ANEMO	<i>Anemone</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
F-POACE	<i>Poaceae</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1
MECI3	<i>Mertensia ciliata</i>	1	0.1

Fen Polygon: 082A - 3330

Nearest Milepoint: SH 82, MP 58

Location: Adjacent to Roaring Fork River, on Independence Pass

Surveyed Date: 8/14/2017

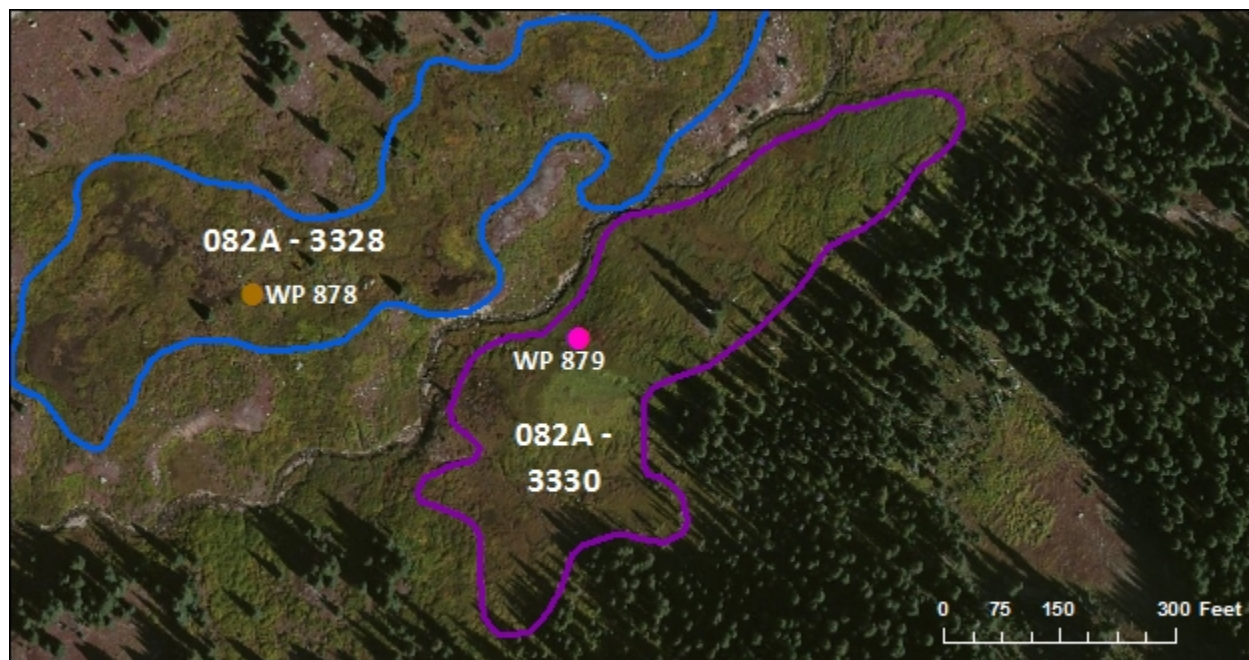
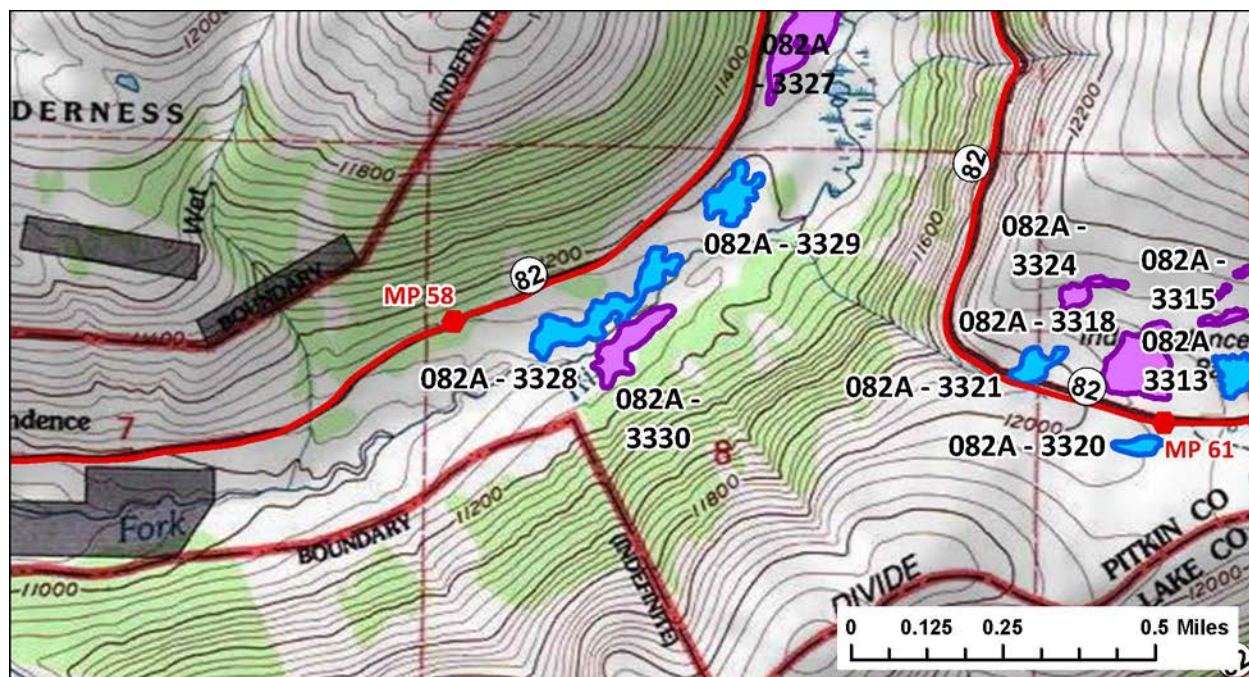
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 11,129 ft

Size: 3.80 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen occurs on a steep slope and drains into a creek. Dominated by *Betula glandulosa*, *Salix planifolia*, and forbs. Greater than 40 cm peat, with a water table of 10 cm.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAWO	<i>Salix wolfii</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
BIVI2	<i>Bistorta vivipara</i>	4	3.5
THAL	<i>Thalictrum alpinum</i>	4	3.5
ANEMO	<i>Anemone</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
ARRY	<i>Arnica rydbergii</i>	2	0.5
CADIG	<i>Carex dioica ssp. gynocrates</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	2	0.5
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	1	0.1
SETR	<i>Senecio triangularis</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 082A - 3337

Nearest Milepoint: SH 82, MP 55

Location: Across the Roaring Fork River from CO State Highway 82

Surveyed Date: 8/23/2017

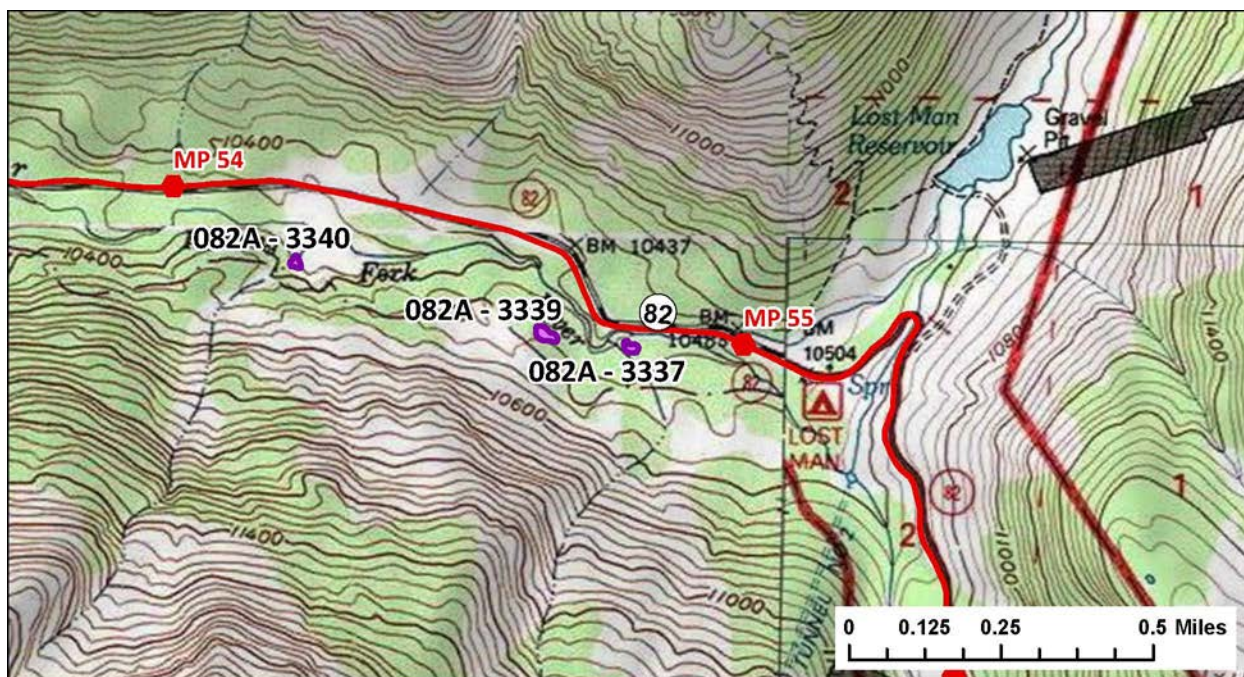
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,463 ft

Size: 0.22 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Fen is a clearing in the woods above river floodplain, covered in *Sphagnum* moss, herbaceous vegetation, and *Betula glandulosa*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
BEGL	<i>Betula glandulosa</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CASC12	<i>Carex scopulorum</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CADI6	<i>Carex disperma</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SETR	<i>Senecio triangularis</i>	4	3.5
CACA11	<i>Carex canescens</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
F-ASTER	<i>Asteraceae</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
BIVI2	<i>Bistorta vivipara</i>	2	0.5
CADIG	<i>Carex dioica ssp. gynocrates</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	2	0.5
PESC9	<i>Pedicularis scopulorum</i>	2	0.5

Fen Polygon: 082A - 3339

Nearest Milepoint: SH 82, MP 55

Location: Across the Roaring Fork River from CO State Highway 82

Surveyed Date: 8/23/2017

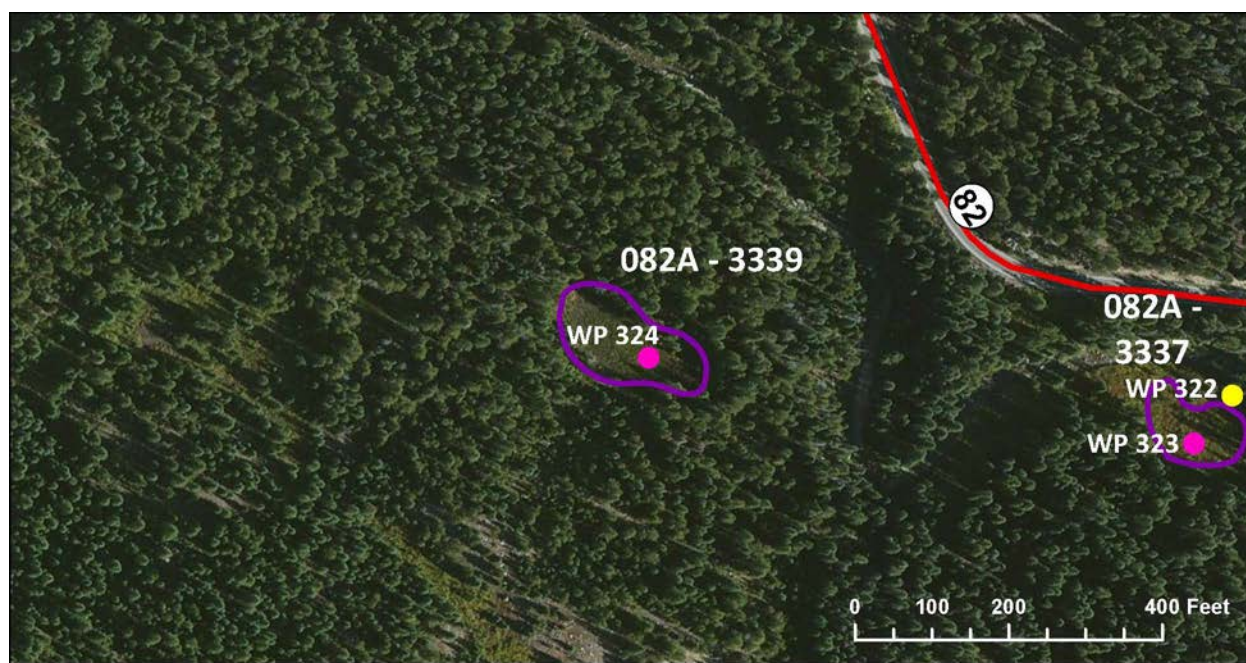
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,492 ft

Size: 0.40 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



- | | | | | | |
|---|-------------|---|-----------------------|---|---------------------|
|  | Confirmed |  | Organic soil core |  | Remote confirmation |
|  | Very Likely |  | Non-organic soil core |  | Remote rejection |



Description: Fen is an unexpected *Carex utriculata* marsh in the middle of *Picea* woodland. 10 cm standing water.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5

Fen Polygon: 082A - 3340

Nearest Milepoint: SH 82, MP 54

Location: Across the Roaring Fork River from CO State Highway 82

Surveyed Date: 8/23/2017

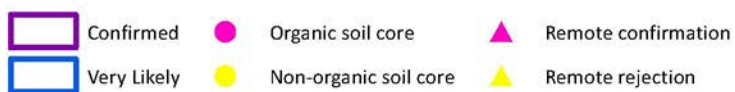
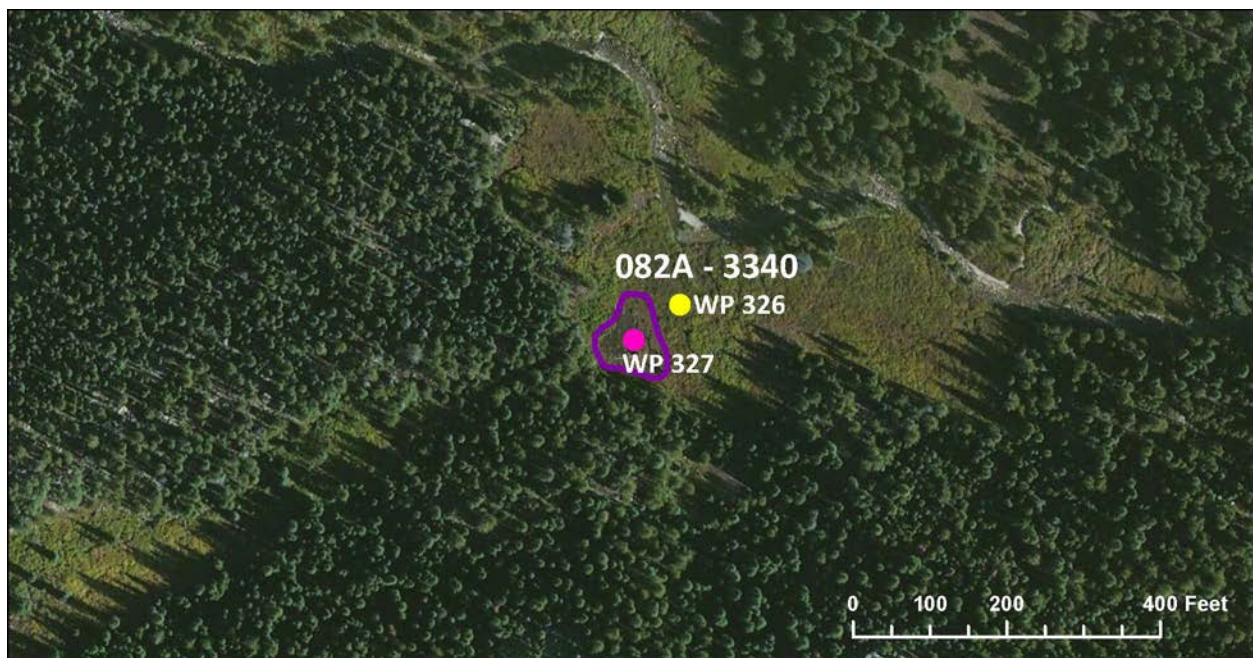
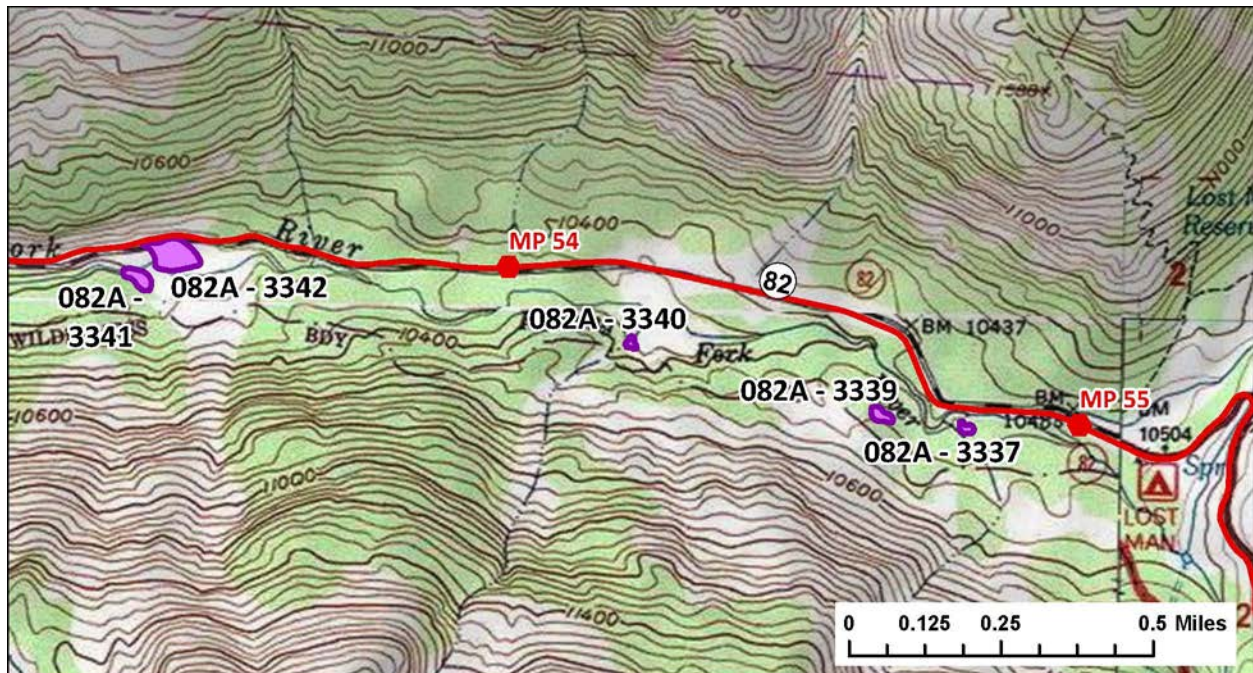
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,381 ft

Size: 0.16 acres

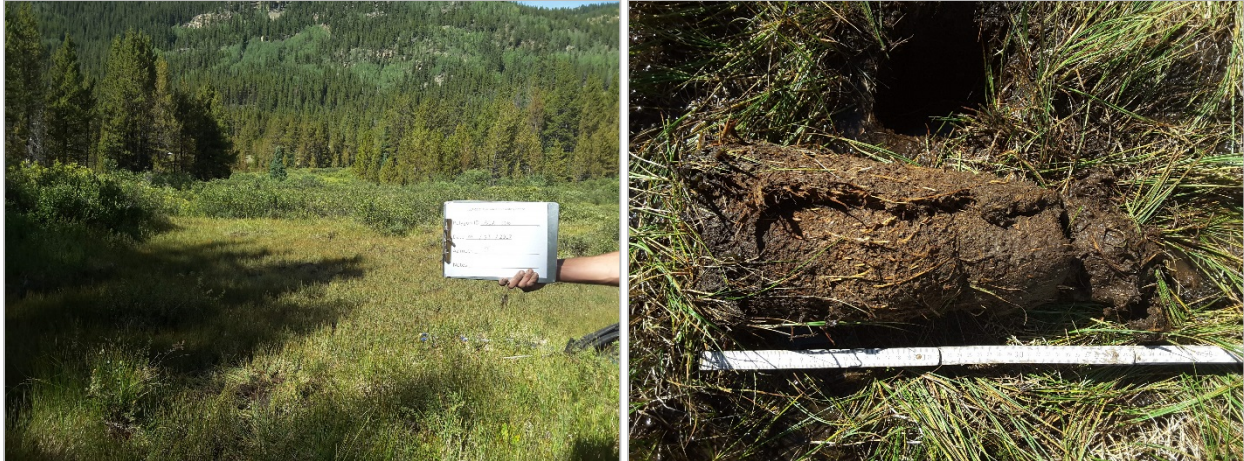
ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Small fen with standing water.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
ELEOC	<i>Eleocharis</i>	5	7.5
CALE10	<i>Carex leptalea</i>	4	3.5
CAMAI2	<i>Carex magellanica ssp. irrigua</i>	4	3.5
THAL	<i>Thalictrum alpinum</i>	4	3.5
B EGL	<i>Betula glandulosa</i>	3	1.5
CALAM	<i>Calamagrostis</i>	3	1.5
CAUT	<i>Carex utriculata</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5

Fen Polygon: 082A - 3341

Nearest Milepoint: SH 82, MP 53

Location: Across the Roaring Fork River from CO State Highway 82

Surveyed Date: 8/22/2017

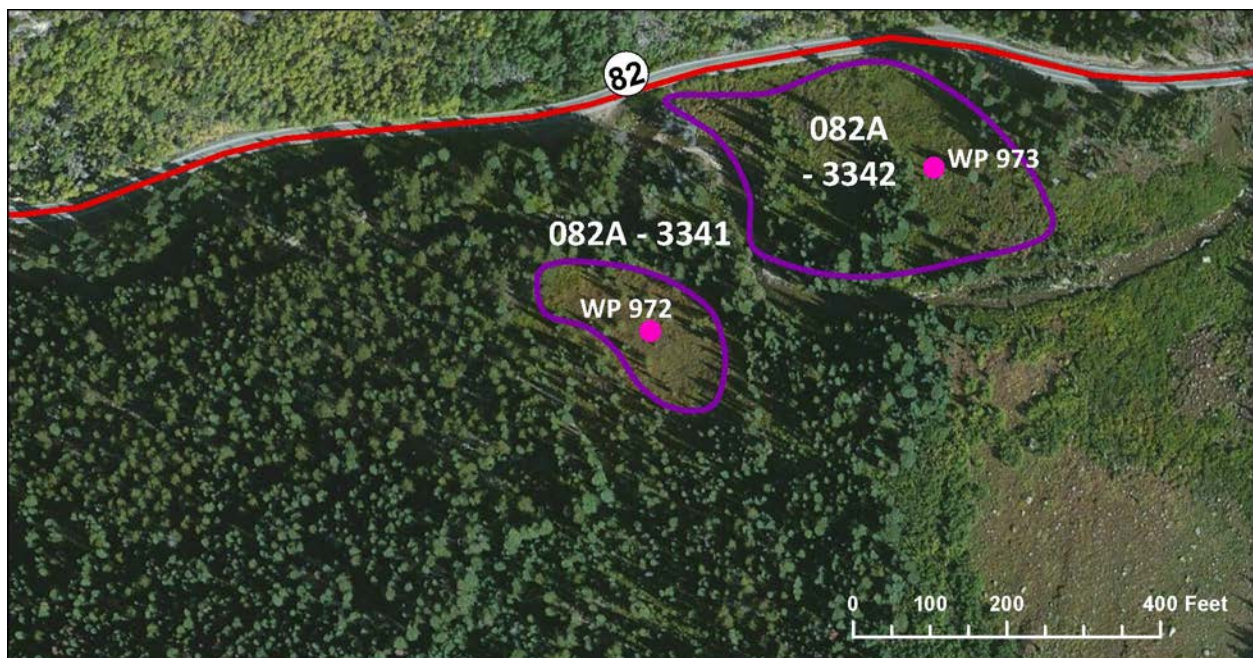
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,249 ft

Size: 0.65 acres

ROW Status: Public Easement

Primary Landowner: White River National Forest



- | | | | | | |
|---|-------------|---|-----------------------|---|---------------------|
|  | Confirmed |  | Organic soil core |  | Remote confirmation |
|  | Very Likely |  | Non-organic soil core |  | Remote rejection |



Description: Fen is elevated about 1.5 m above the creek channel, surrounded by conifers. Greater than 40 cm of peat. *Sphagnum* moss is found throughout the site. High species diversity.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
CAVE6	<i>Carex vesicaria</i>	7	37.5
CALE10	<i>Carex leptalea</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
PIPU	<i>Picea pungens</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
EQUIS	<i>Equisetum</i>	2	0.5
MIMUL	<i>Mimulus</i>	2	0.5
PESC9	<i>Pedicularis scopulorum</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
SOCA6	<i>Solidago canadensis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 082A - 3342

Nearest Milepoint: SH 82, MP 53

Location: Between the Roaring Fork River and CO State Highway 82

Surveyed Date: 8/22/2017

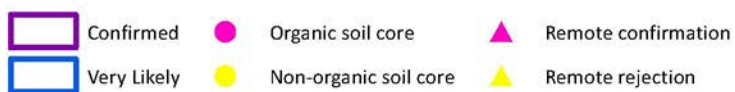
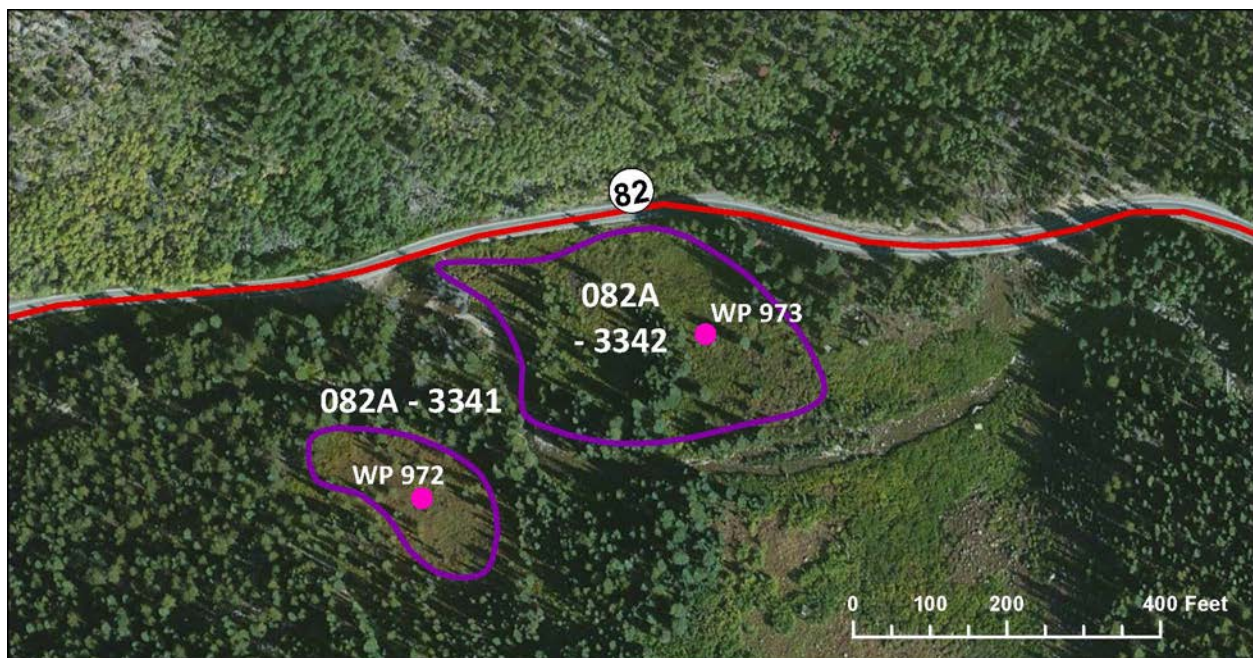
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,249 ft

Size: 2.09 acres

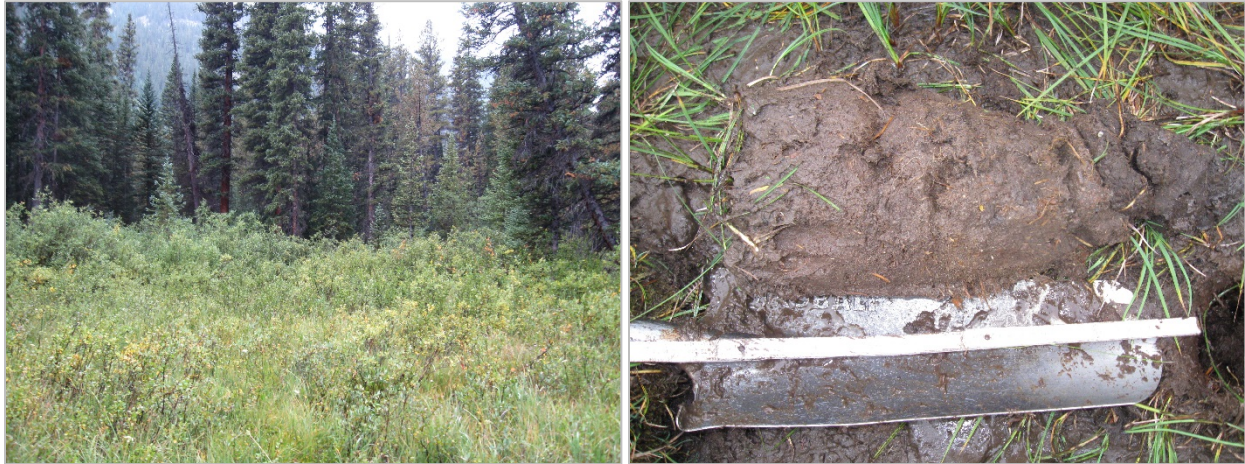
ROW Status: Public Easement

Primary Landowner: White River National Forest



Description: Soils are brown peat. Below 40 cm, soil transitions to mucky mineral, then to gravel. Lots of hummocks. Site is dominated by *Betula glandulosa*, *Carex* species, and *Sphagnum*. Fen is adjacent to south side of highway 82.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CALE10	<i>Carex leptalea</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
F-ASTER	<i>Asteraceae</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
PIPU	<i>Picea pungens</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PESC9	<i>Pedicularis scopulorum</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CAUT	<i>Carex utriculata</i>	2	0.5
EQAR	<i>Equisetum arvense</i>	2	0.5
PODI2	<i>Potentilla diversifolia</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5

Fen Polygon: 091A - 0501

Nearest Milepoint: SH 91, MP 7

Location: Along the west side of Colorado State Highway 91

Surveyed Date: 8/11/2017

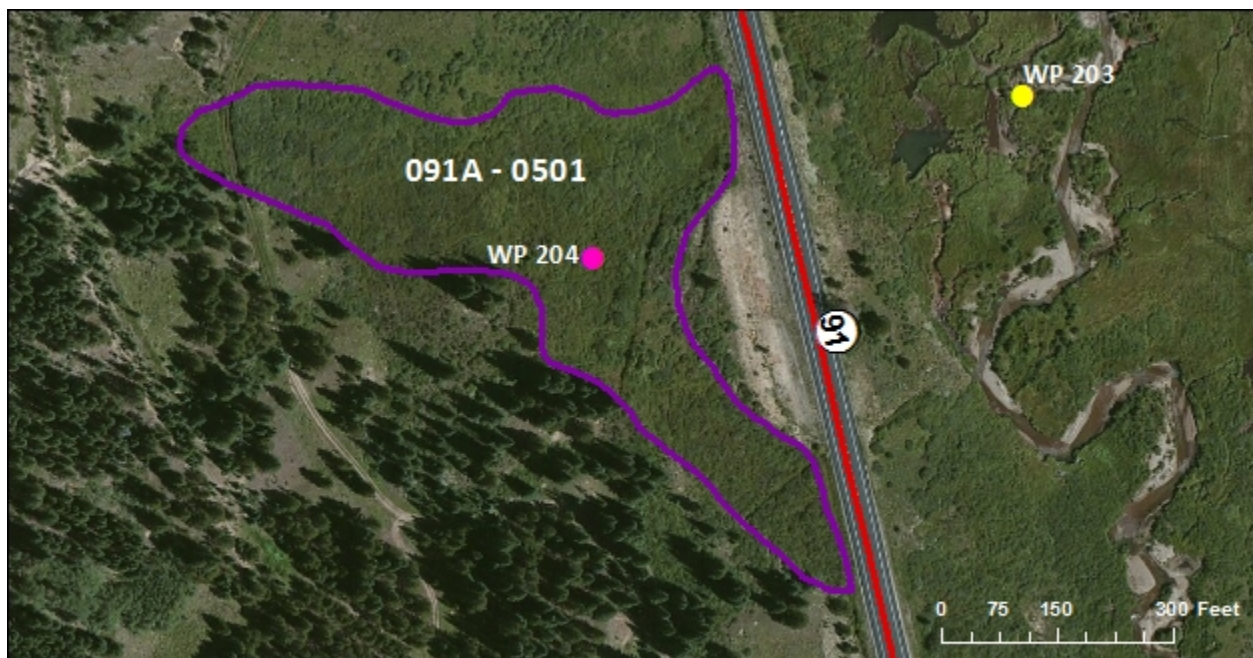
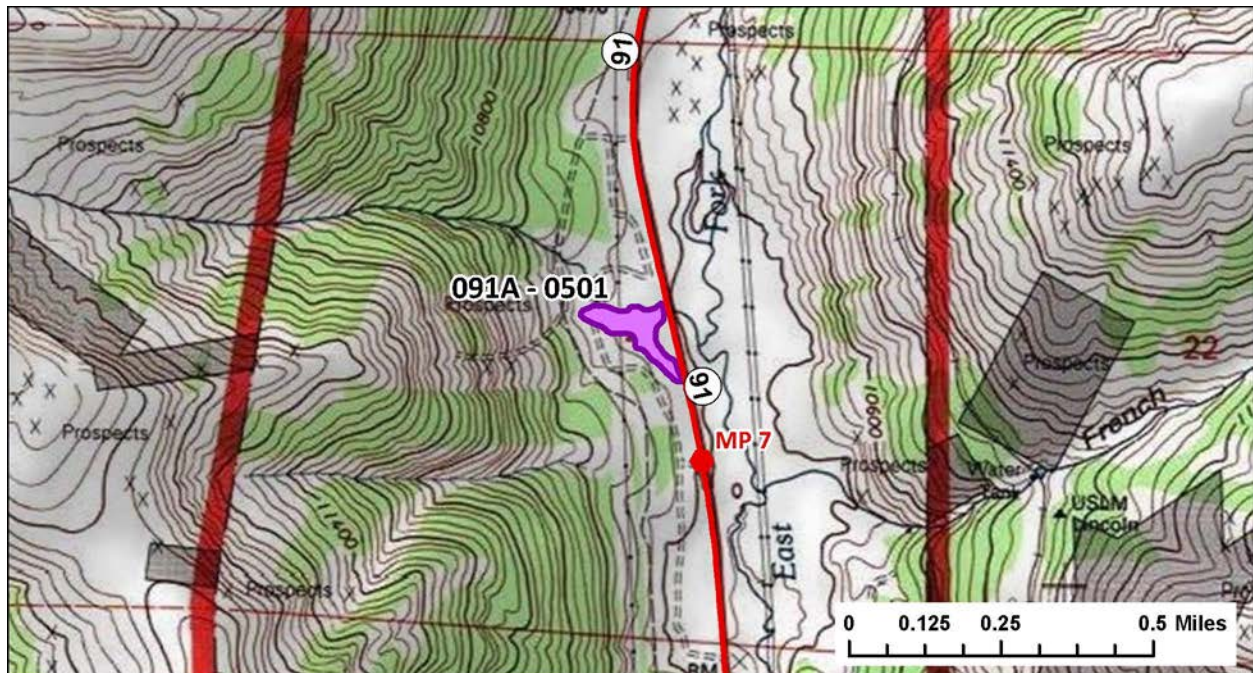
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,436 ft

Size: 4.52 acres

ROW Status: Public Easement

Primary Landowner: Bureau of Land Management



Description: *Salix planifolia* and *Salix wolfii* thicket, fed by groundwater from surrounding hillsides. Understory of sedge and forbs.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
SAWO	<i>Salix wolfii</i>	7	37.5
CAREX	<i>Carex</i>	4	3.5
F-ASTER	<i>Asteraceae</i>	4	3.5
GEALS3	<i>Geum aleppicum ssp. strictum</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
ACCO4	<i>Aconitum columbianum</i>	3	1.5
CAUT	<i>Carex utriculata</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
F-POACE	<i>Poaceae</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
THAL	<i>Thalictrum alpinum</i>	3	1.5
MAST4	<i>Maianthemum stellatum</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 091A - 2952

Nearest Milepoint: SH 91, MP 9

Location: Near Fremont Pass and Climax, Colorado

Surveyed Date: 8/11/2017

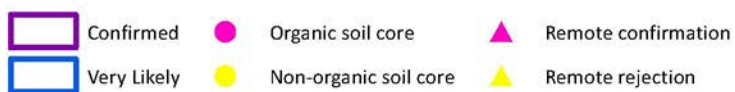
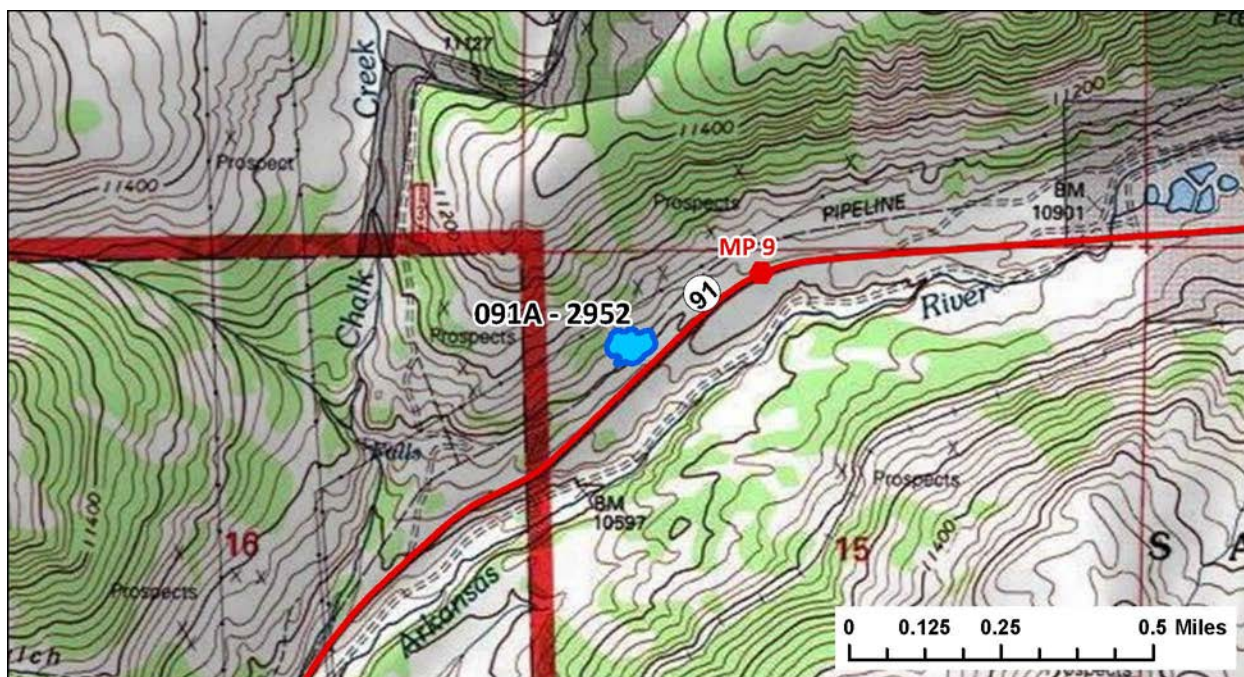
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,830 ft

Size: 2.15 acres

ROW Status: Public Easement

Primary Landowner: San Isabel National Forest



Description: Potential fen. Soil core was borderline peat, with some clay content in the lower core. Tall *Salix* thicket with standing water and patches of *Carex utriculata*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
SAMO2	<i>Salix monticola</i>	6	17.5
CIRSI	<i>Cirsium</i>	4	3.5
CAREX	<i>Carex</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5

Fen Polygon: 125A - 2900

Nearest Milepoint: SH 125, MP 26

Location: Haney Draw, adjacent to Colorado State Highway 125

Surveyed Date: 6/20/2016

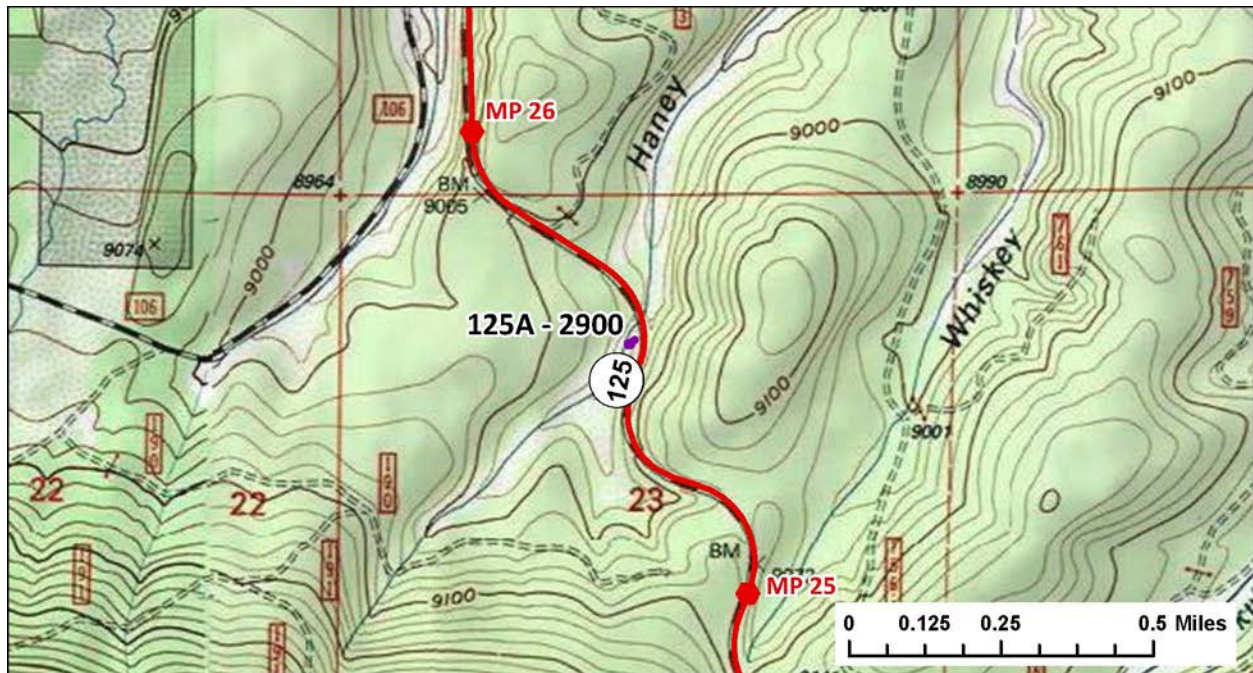
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 8,970 ft

Size: 0.05 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: *Salix* dominated, with *Carex* understory. Fen located in depression, edges are pine dominated with evidence of clearing along roadside. Evidence of browse/scat. There is a USFS road just west of fen. Ditch running through area.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
SAWO	<i>Salix wolfii</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	5	7.5
MECI3	<i>Mertensia ciliata</i>	1	0.1
POLEM	<i>Polemonium</i>	1	0.1
PSLE	<i>Psychrophila leptosepala</i>	1	0.1

Fen Polygon: 131B - 0407

Nearest Milepoint: SH 131, MP 38

Location: County Road 3B, south of Yampa, Colorado

Surveyed Date: 6/18/2017

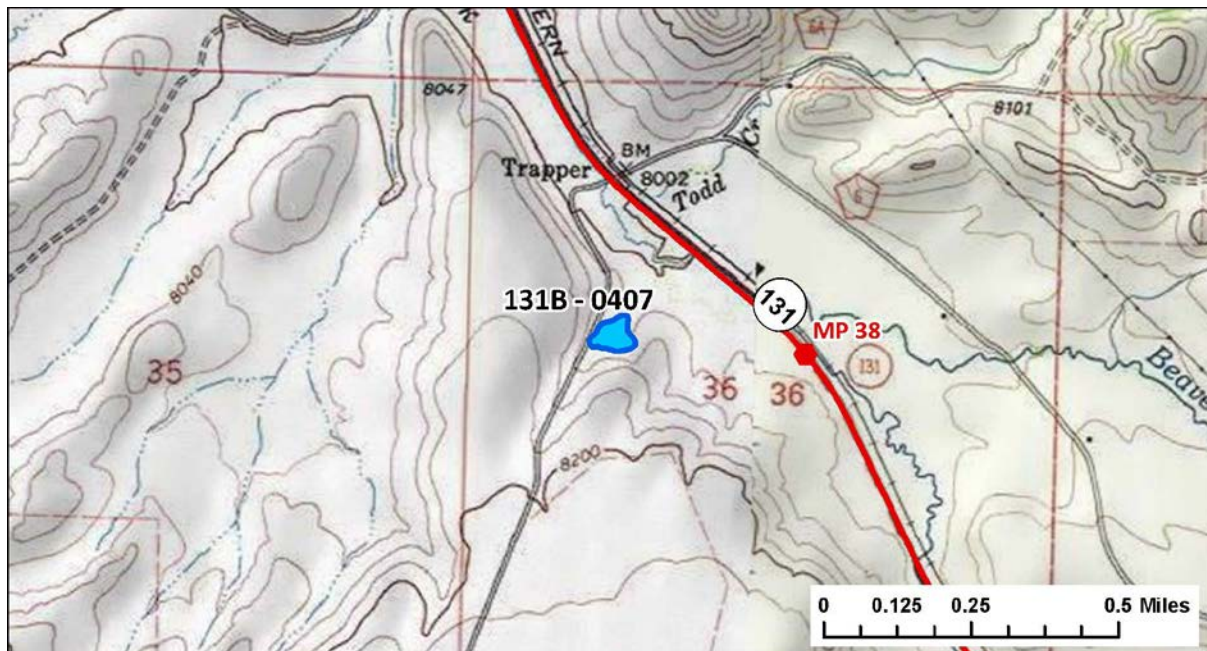
Proximity to Hwy: >200 m (656 ft)

Elevation: 8,061 ft

Size: 1.94 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Colorado Cattlemen's Agricultural Land Trust



Description: Probable, unverified fen. Sloping wetland into wet meadow below hill. Could not take soil core due to private property. Viewed from roadside. Looks like a good amount of water seeping into area. *Carex utriculata* dominated.

Site Photos



Fen Polygon: 134A - 0205

Nearest Milepoint: SH 134, MP 13

Location: Between Colorado State Highway 134 and Rock Creek

Surveyed Date: 6/18/2017

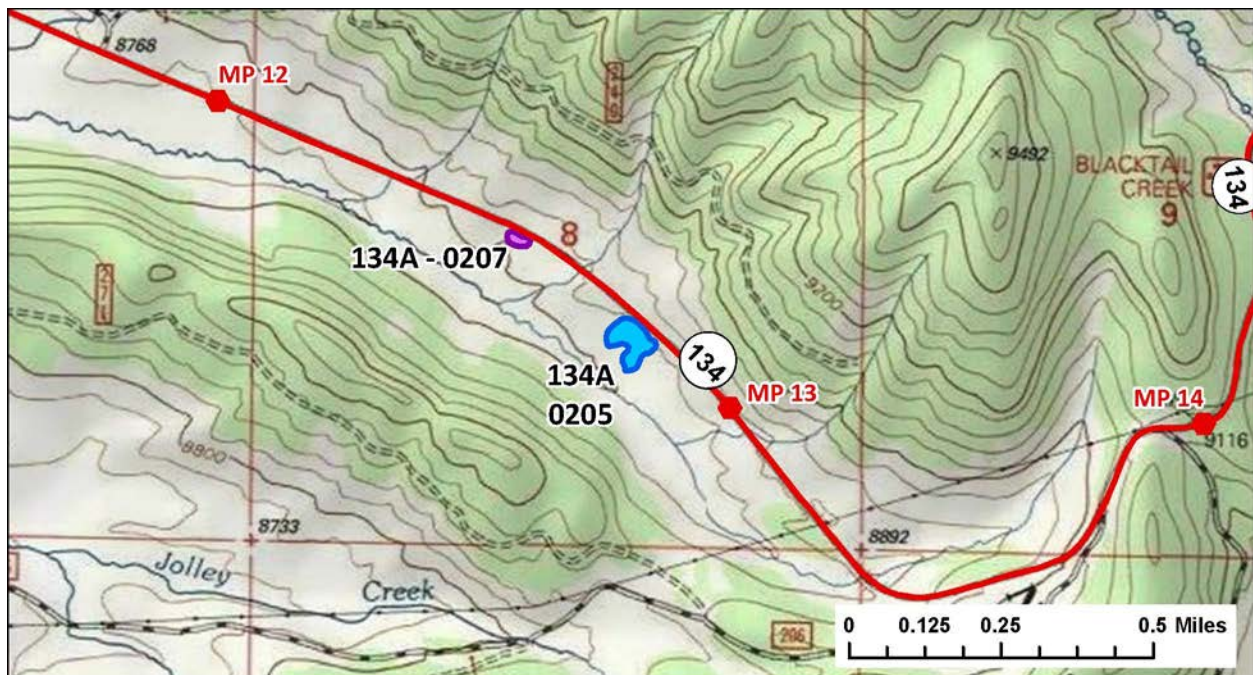
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 8,825 ft

Size: 2.43 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Likely fen. Not surveyed, but appears to have that same species composition as confirmed fen 134A - 0207. Mostly shrubs (*Betula glandulosa* and *Salix*) with abundance of *Psychrophila leptosepala* and *Carex* species.

Site Photo



Fen Polygon: 134A - 0207

Nearest Milepoint: SH 134, MP 13

Location: Between Colorado State Highway 134 and Rock Creek

Surveyed Date: 6/18/2017

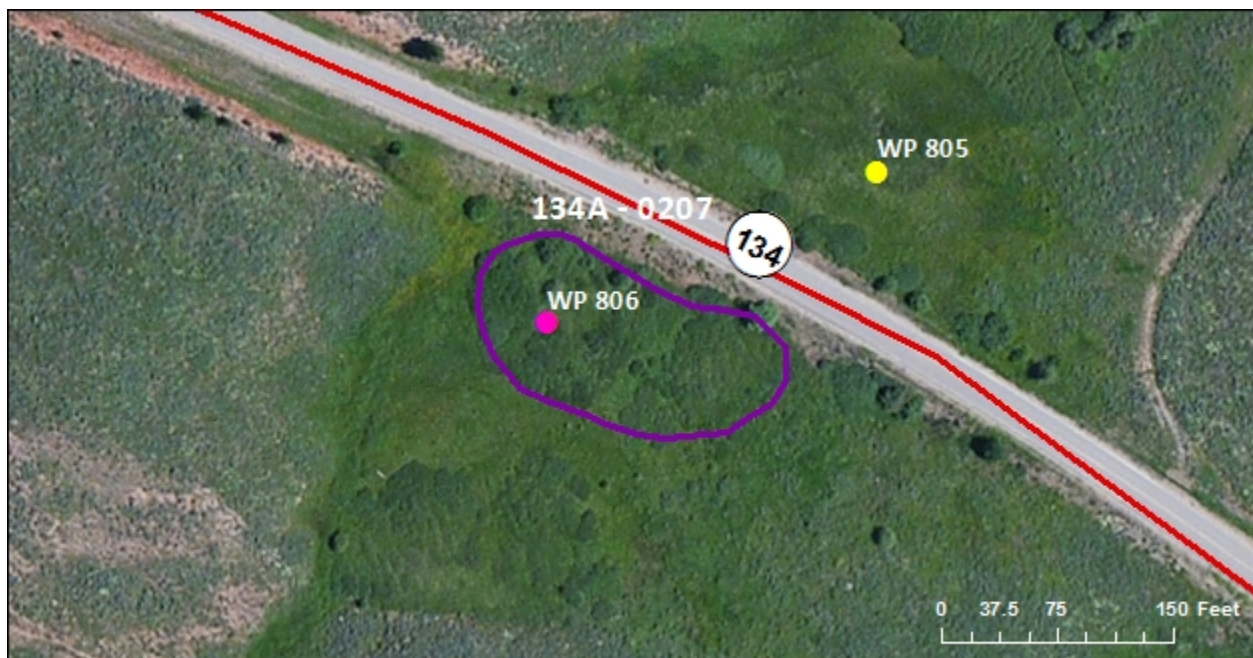
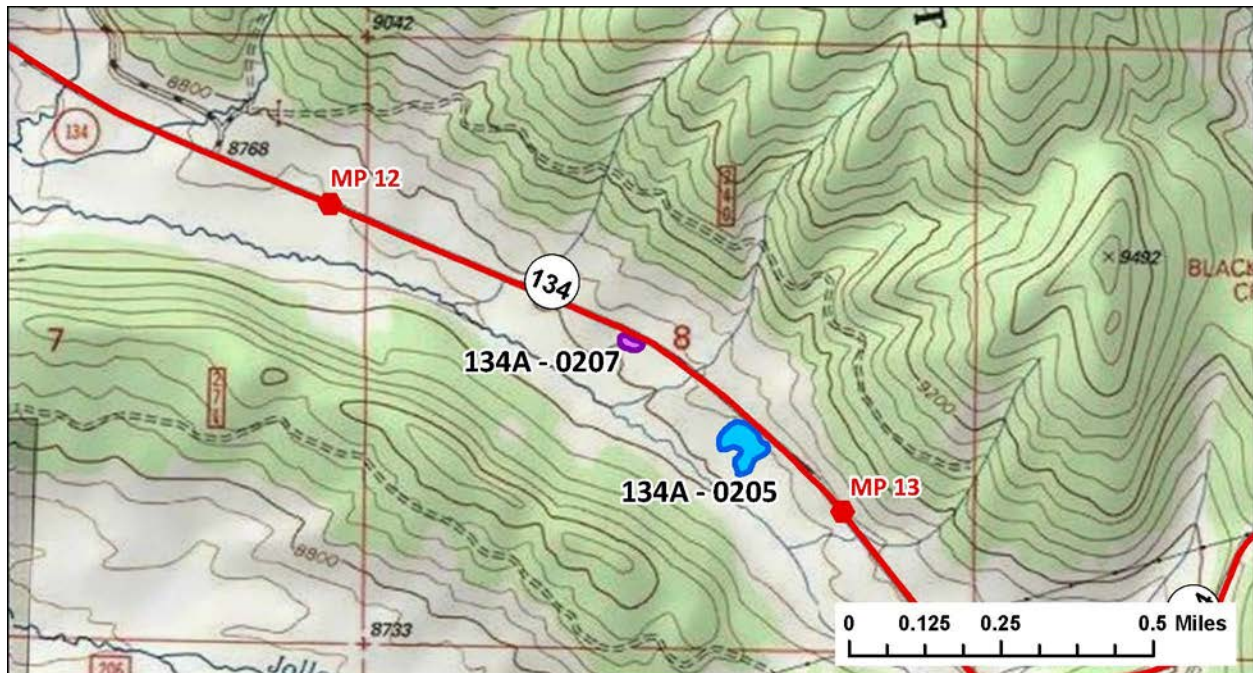
Proximity to Hwy: <5 m (16 ft)

Elevation: 8,806 ft

Size: 0.40 acres

ROW Status: Public Easement

Primary Landowner: Routt National Forest



Description: Seep fen on lower edge of highway 134. At least 50 cm peat/muck. Fen is connected via culvert to polygon above the road which is wetland. Mostly shrubs (*Betula glandulosa* and *Salix*) with abundance of *Psychrophila leptosepala* and *Carex* spp.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAWO	<i>Salix wolfii</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	7	37.5
CAREX	<i>Carex</i>	7	37.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
SALIX	<i>Salix</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
F-APIAC	<i>Apiaceae</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
BIVI2	<i>Bistorta vivipara</i>	3	1.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	3	1.5
OXFE	<i>Oxypolis fendleri</i>	3	1.5
POLEM	<i>Polemonium</i>	3	1.5
DOPU	<i>Dodecatheon pulchellum</i>	2	0.5
ERTR19	<i>Erythrocoma triflora</i>	2	0.5
F-RANUN	<i>Ranunculaceae</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
RUAQO	<i>Rumex aquaticus ssp. Occidentalis</i>	2	0.5
VACAA	<i>Valeriana capitata ssp. acutiloba</i>	2	0.5
F-POACE	<i>Poaceae</i>	1	0.1

Fen Polygon: 145A - 0666

Nearest Milepoint: SH 145, MP 60

Location: Lizard Head Meadows

Surveyed Date: 8/25/2016

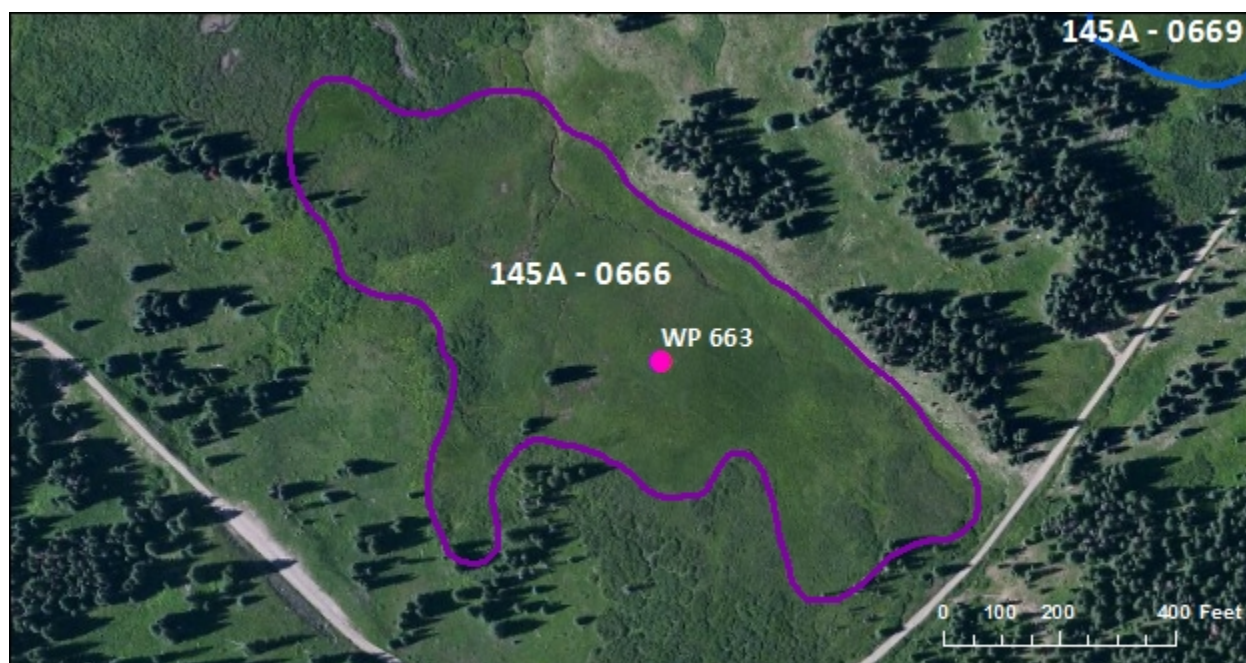
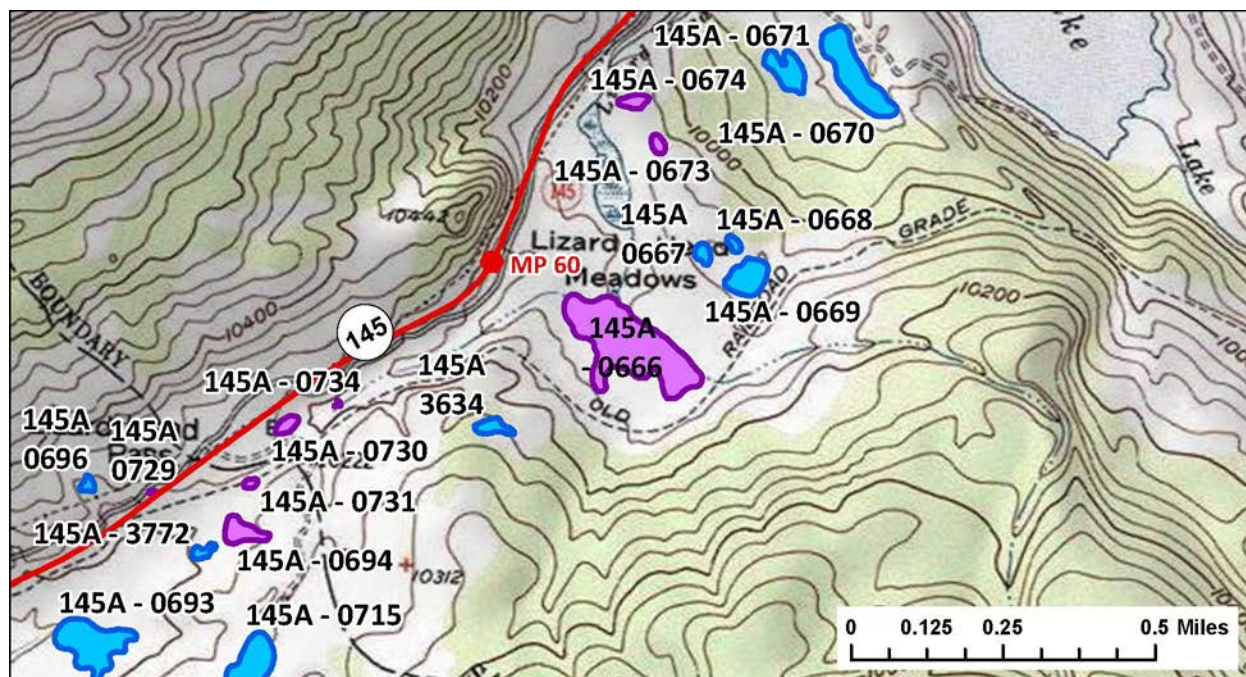
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,092 ft

Size: 11.78 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Large, *Carex* dominated fen in depression. Part of larger wetland complex. Creek through northeast part of polygon. *Picea* on edges.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	4	3.5
POLYG4	<i>Polygonum</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
GETH	<i>Gentianopsis thermalis</i>	3	1.5
JULO	<i>Juncus longistylis</i>	3	1.5
PNPA	<i>Pneumonanthe parryi</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CAMAI2	<i>Carex magellanica ssp. irrigua</i>	2	0.5
HILA5	<i>Hippochaete laevigata</i>	2	0.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
GEUM	<i>Geum</i>	1	0.1
SALIX	<i>Salix</i>	1	0.1

Fen Polygon: 145A - 0673

Nearest Milepoint: SH 145, MP 60

Location: Lizard Head Meadows

Surveyed Date: 8/24/2016

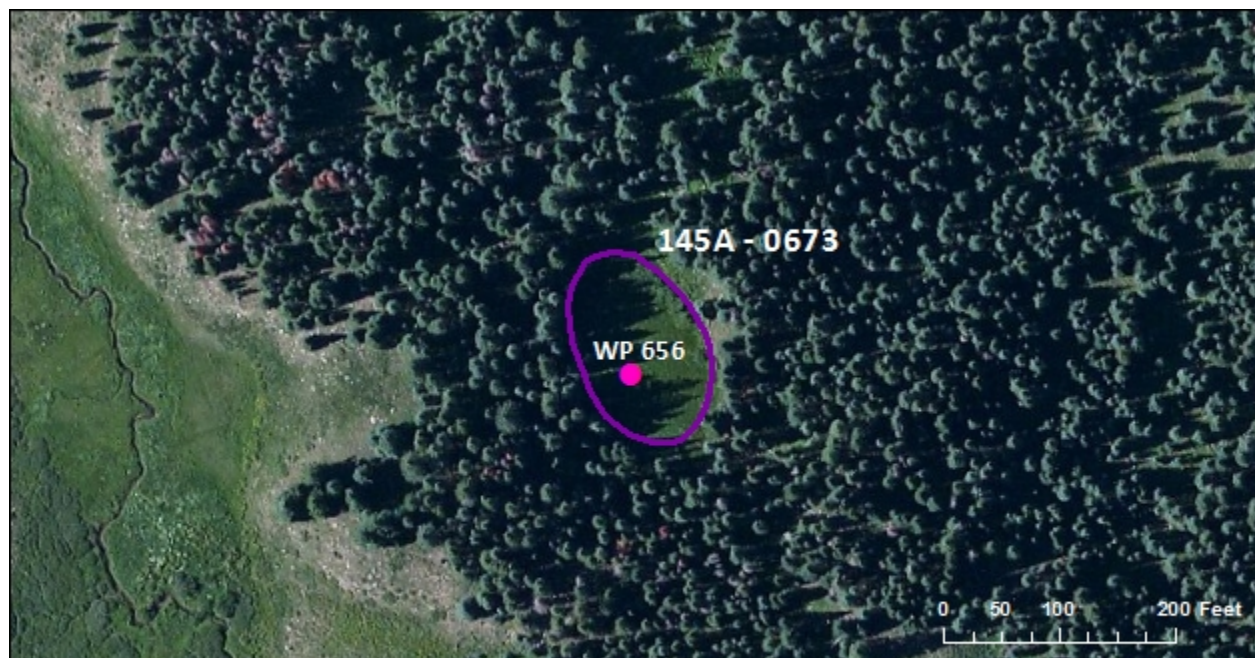
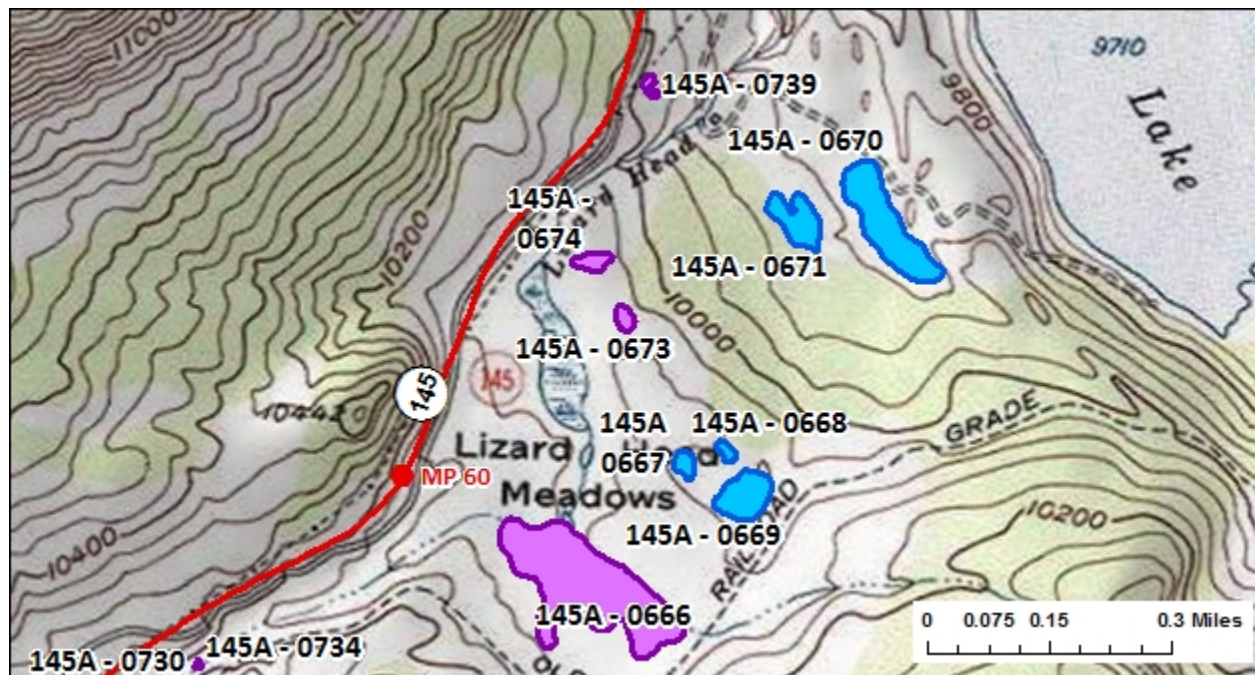
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,059 ft

Size: 0.35 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Small fen in depression. Dominated by *Carex utriculata*; not very diverse. *Picea* around edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
PIEN	<i>Picea engelmannii</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
ROPA2	<i>Rorippa palustris</i>	2	0.5
GATR3	<i>Galium triflorum</i>	1	0.1

Fen Polygon: 145A - 0674

Nearest Milepoint: SH 145, MP 60

Location: Lizard Head Meadows

Surveyed Date: 8/24/2016

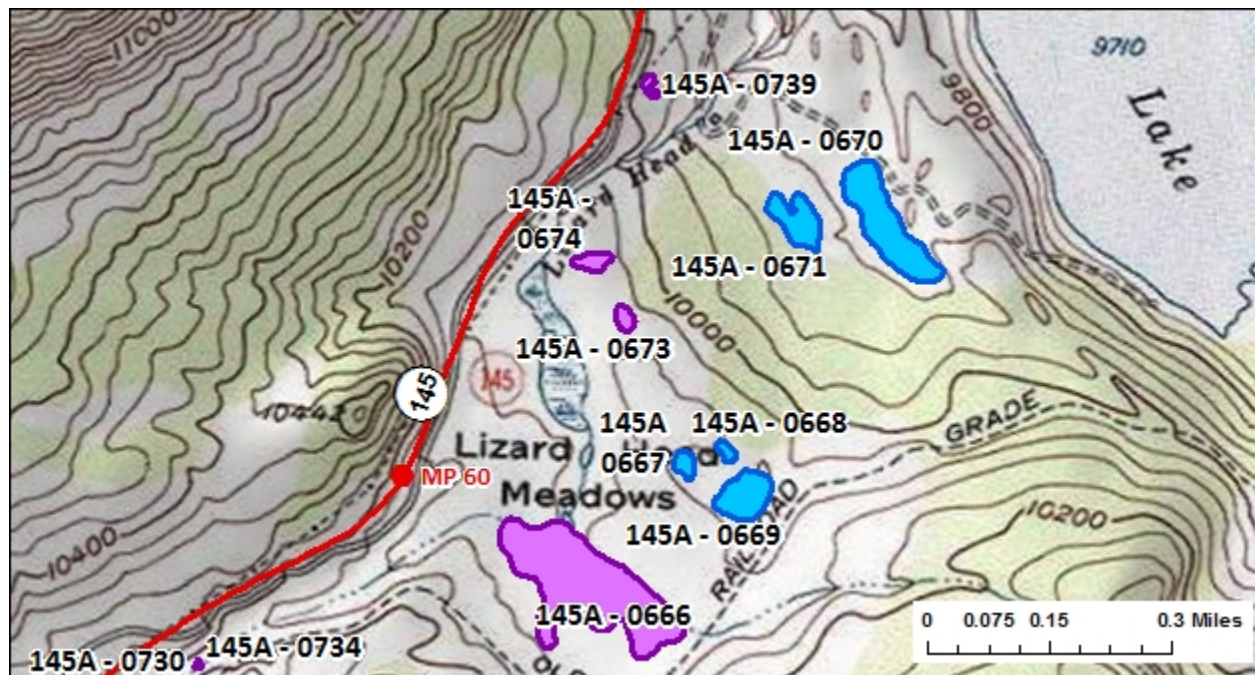
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,066 ft

Size: 0.53 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Small, gently sloping fen, in a depression. Dominated by *Carex utriculata*, with *Picea* around edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5

Fen Polygon: 145A - 0675

Nearest Milepoint: SH 145, MP 57

Location: Along a hiking trail off County Road 61

Surveyed Date: 8/26/2016

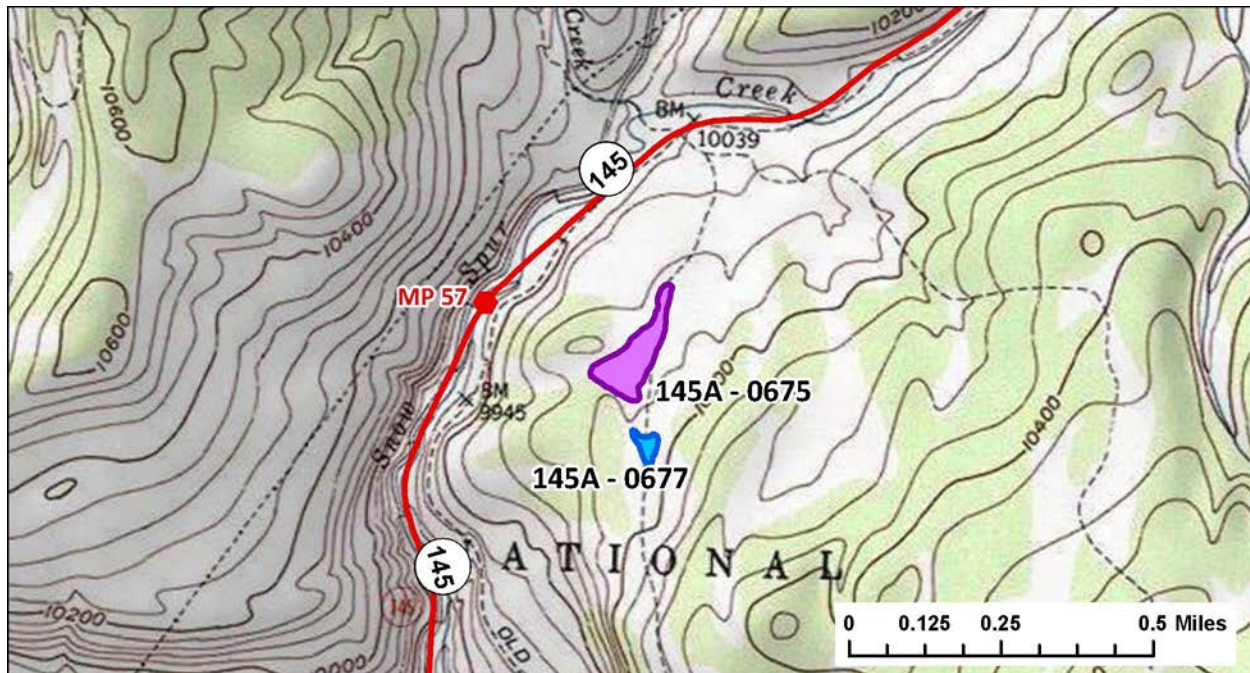
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,154 ft

Size: 5.56 acres

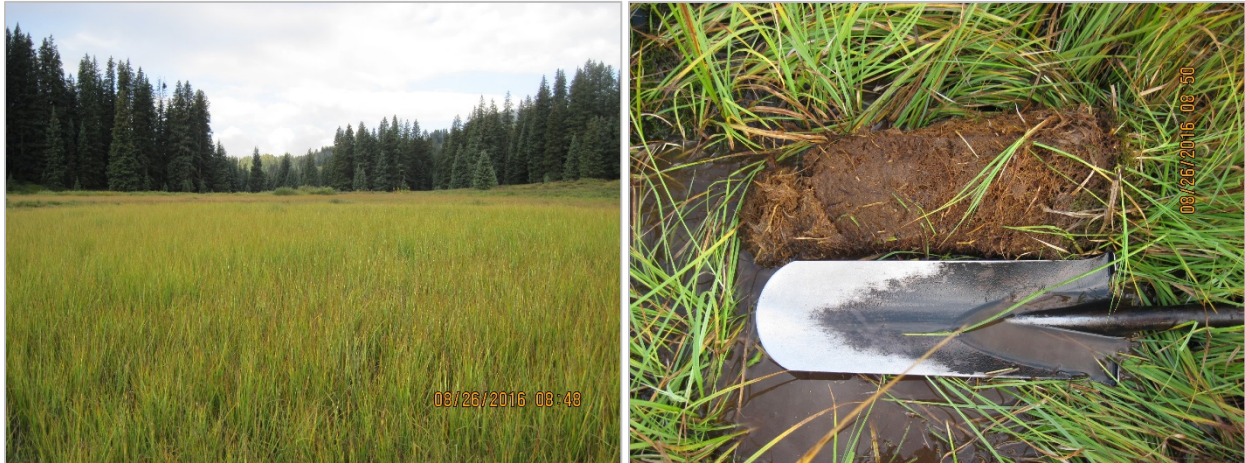
ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Large fen with hiking trail running throughout it. Standing water in west part of fen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CACA11	<i>Carex canescens</i>	7	37.5
FRVIG2	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	5	7.5
CAIL	<i>Carex illota</i>	4	3.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
ACLA5	<i>Achillea lanulosa</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
POLE2	<i>Poa leptocoma</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
VENU2	<i>Veronica nutans</i>	2	0.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 145A - 0689

Nearest Milepoint: SH 145, MP 59

Location: Adjacent to Snow Spur Creek

Surveyed Date: 8/25/2016

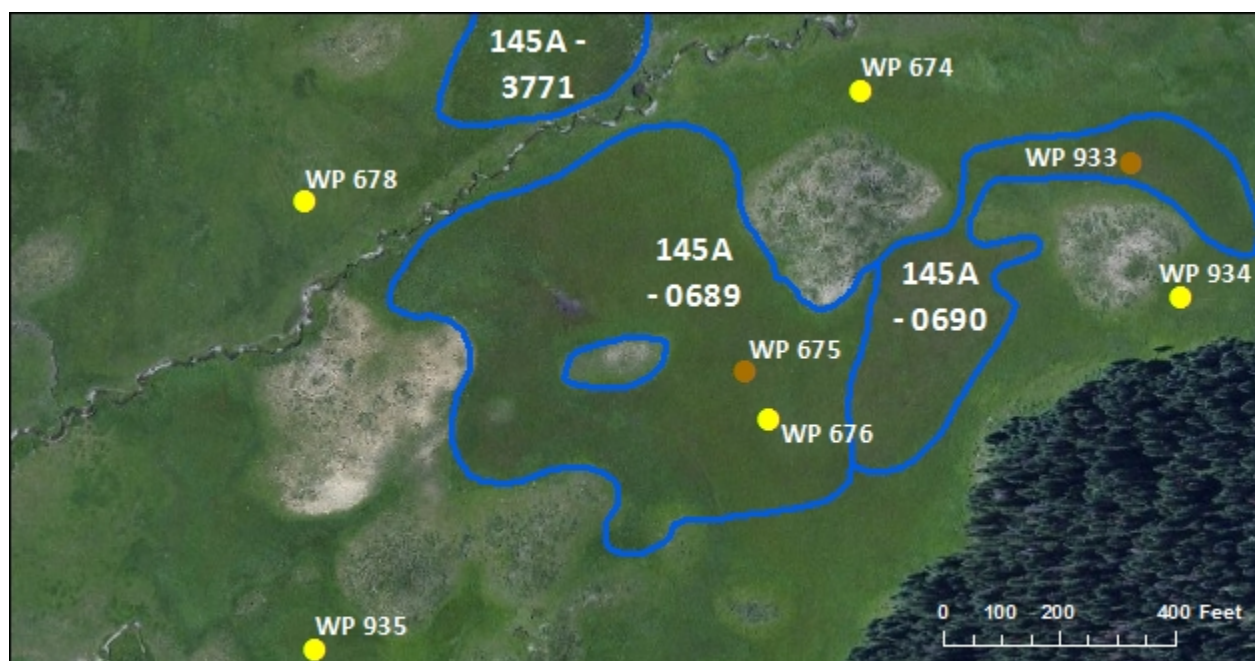
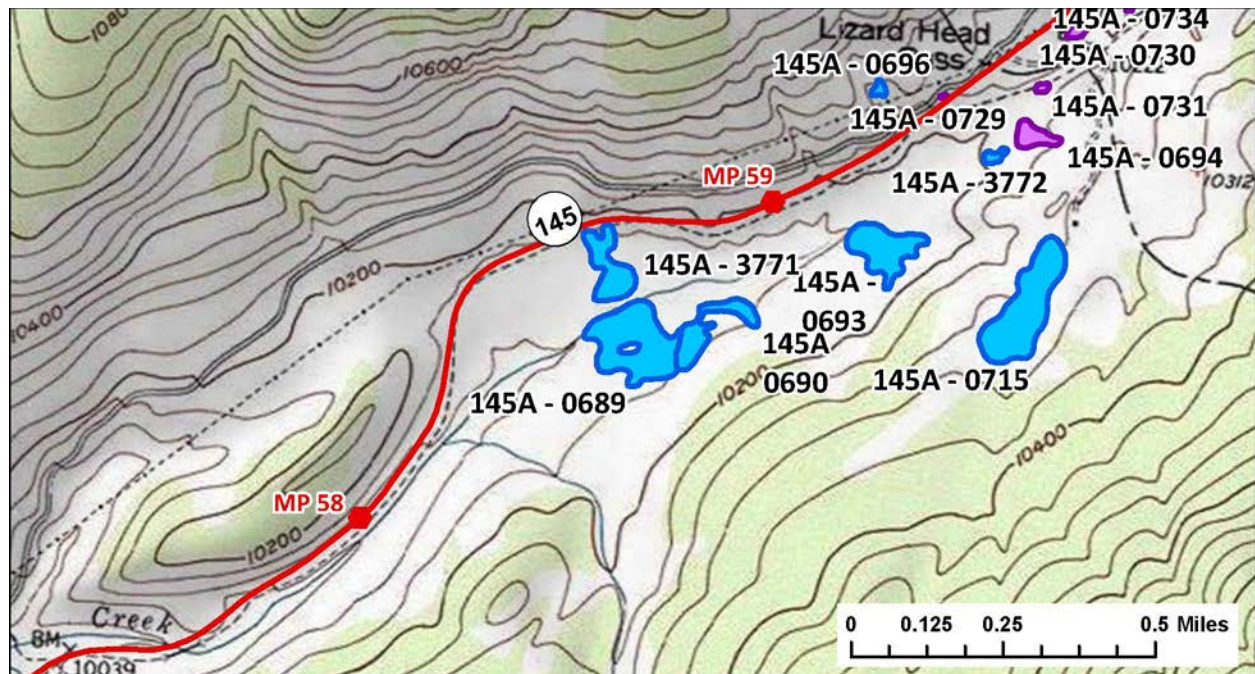
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,151 ft

Size: 8.57 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Borderline fen. Soil core has pockets of clay in the peat layer. Part of large wetland complex adjacent to Snow Spur Creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAPR5	<i>Carex praegracilis</i>	7	37.5
CALI7	<i>Carex limosa</i>	6	17.5
ERAN6	<i>Eriophorum angustifolium</i>	6	17.5
CLRH2	<i>Clementsia rhodantha</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
PNPA	<i>Pneumonanthe parryi</i>	4	3.5

Fen Polygon: 145A - 0690

Nearest Milepoint: SH 145, MP 59

Location: Near Snow Spur Creek

Surveyed Date: 8/25/2016

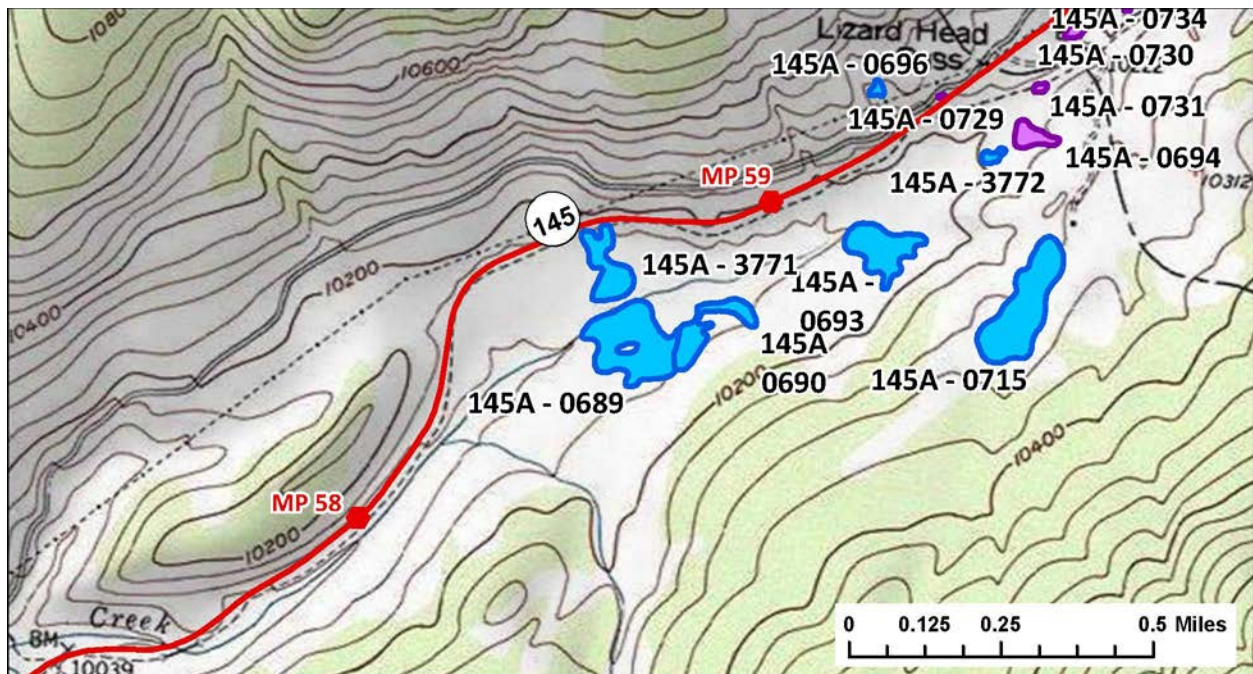
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,157 ft

Size: 3.17 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Borderline fen. Soil core was 50 cm clayey peat. Soil is saturated but does not have standing water.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CALAM	<i>Calamagrostis</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
GATR3	<i>Galium triflorum</i>	1	0.1
MUFI2	<i>Muhlenbergia filiformis</i>	1	0.1
PEGR2	<i>Pedicularis groenlandica</i>	1	0.1
SAWO	<i>Salix wolfii</i>	1	0.1
VEAM2	<i>Veronica americana</i>	1	0.1

Fen Polygon: 145A - 0694

Nearest Milepoint: SH 145, MP 59

Location: Lizard Head Pass

Surveyed Date: 8/25/2016

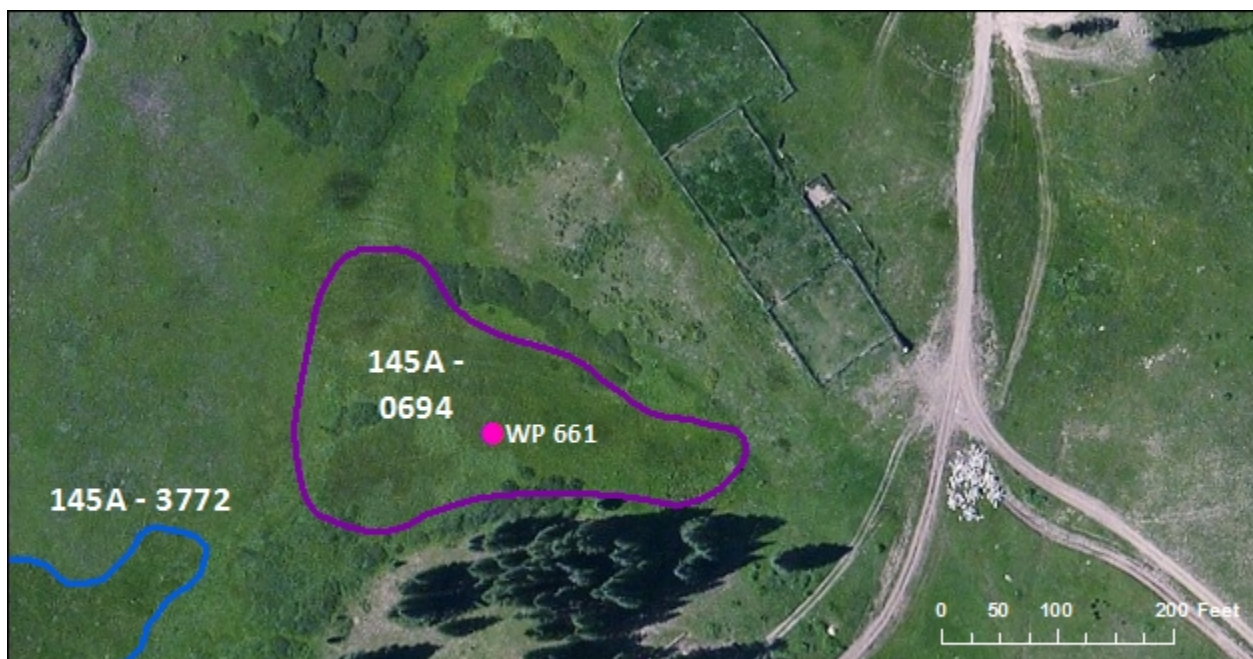
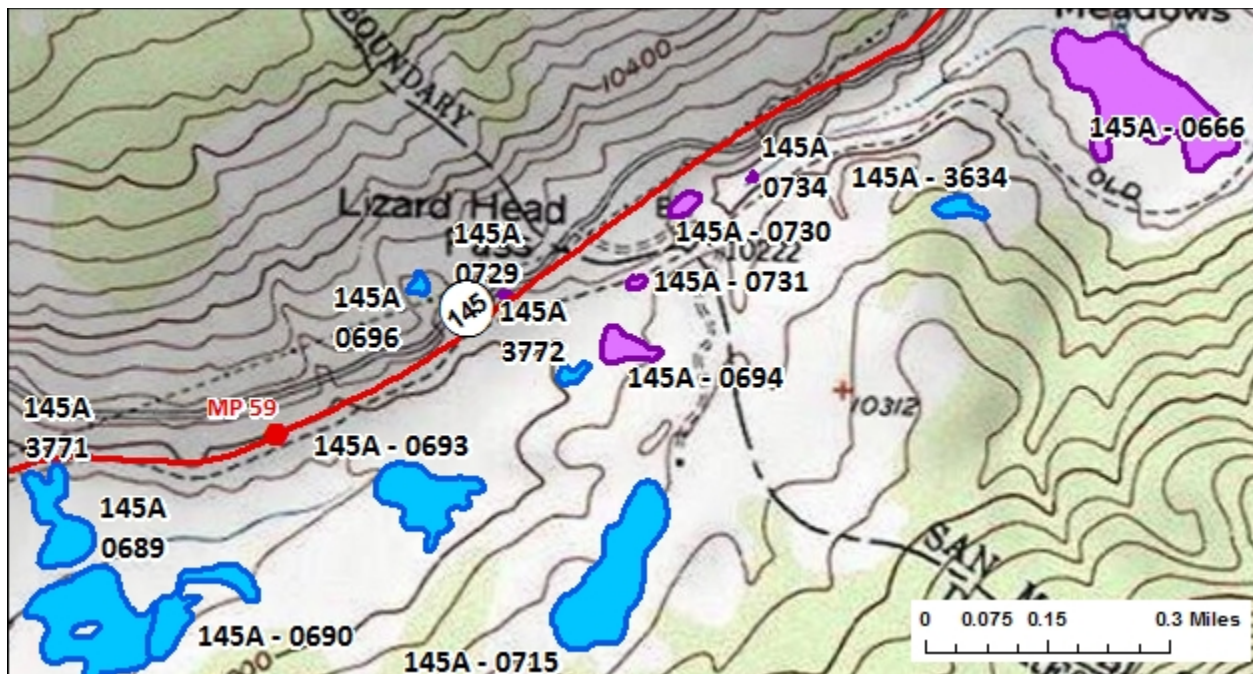
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,226 ft

Size: 1.26 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Depressional fen, part of larger wetland complex. Fen dominated by *Carex utriculata*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CACA4	<i>Calamagrostis canadensis</i>	4	3.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5
POA	<i>Poa</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5

Fen Polygon: 145A - 0696

Nearest Milepoint: SH 145, MP 59

Location: Lizard Head Pass

Surveyed Date: 8/25/2016

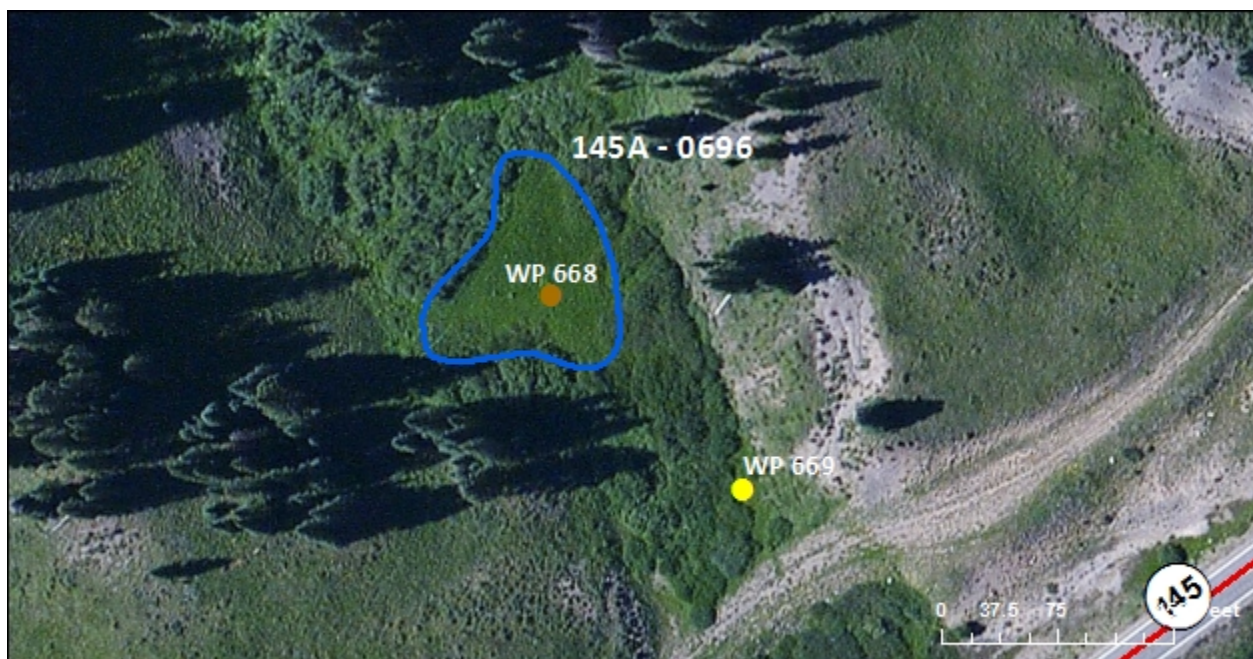
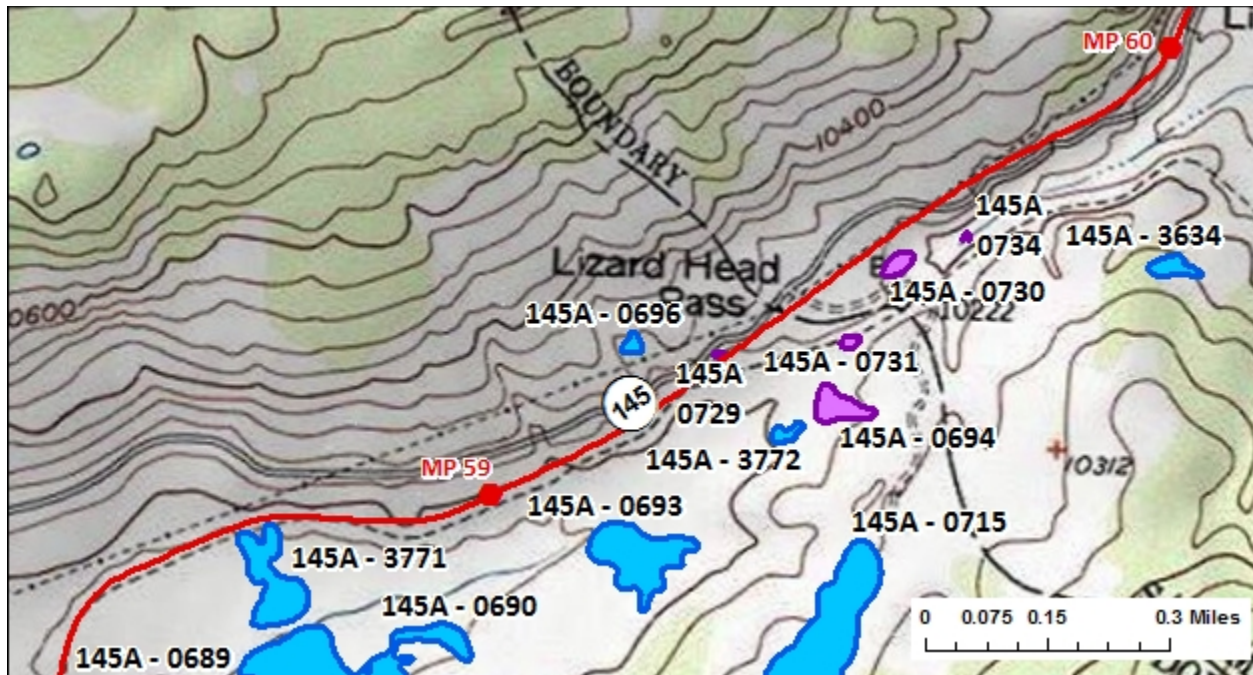
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,305 ft

Size: 0.28 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Borderline fen. Soil core had peat to 40 cm, with clay mixed in. On a gentle slope. Dominated by *Carex* species, with *Salix* along the edges of the polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	5	7.5
SETR	<i>Senecio triangularis</i>	5	7.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
POA	<i>Poa</i>	3	1.5
VETE4	<i>Veratrum tenuipetalum</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
CAIL	<i>Carex illota</i>	2	0.5
CAPR5	<i>Carex praegracilis</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
AGROS2	<i>Agrostis</i>	1	0.1
CALAM	<i>Calamagrostis</i>	1	0.1
CASTI2	<i>Castilleja</i>	1	0.1
GEUM	<i>Geum</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 145A - 0729

Nearest Milepoint: SH 145, MP 59

Location: Lizard Head Pass

Surveyed Date: 8/25/2016

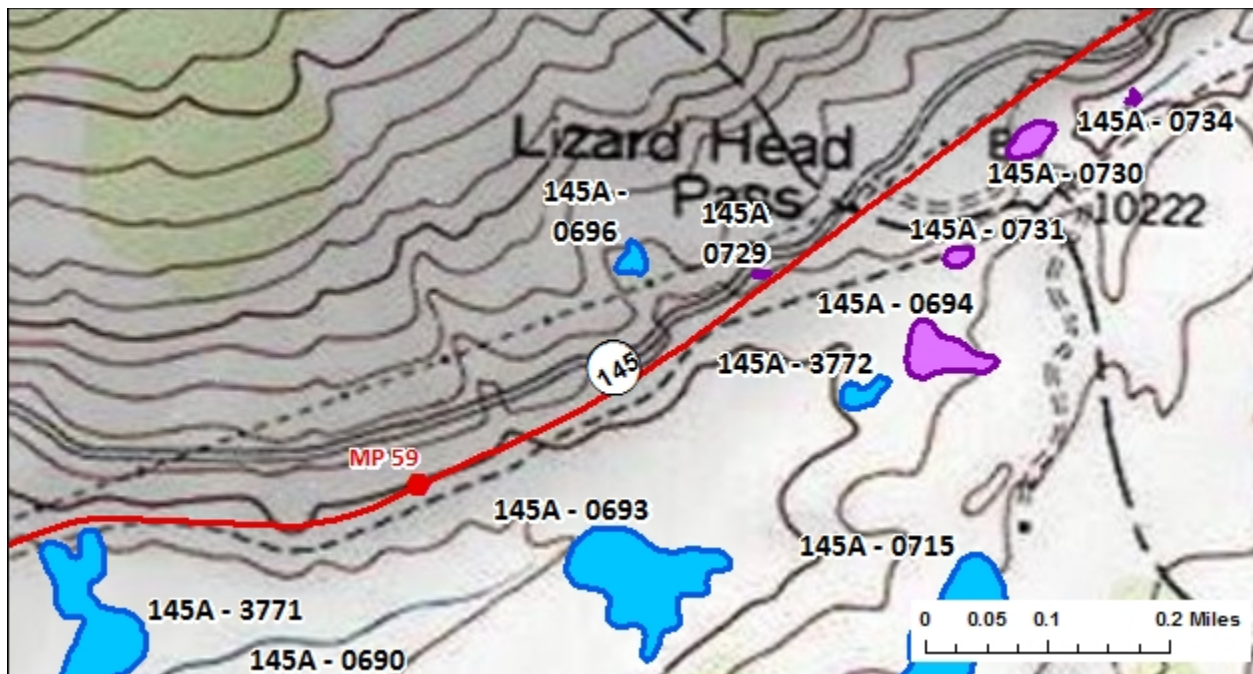
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,272 ft

Size: 0.03 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Small fen, adjacent to road. Dominated by *Carex utriculata*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	5	7.5
SAWO	<i>Salix wolfii</i>	5	7.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5

Fen Polygon: 145A - 0730

Nearest Milepoint: SH 145, MP 60

Location: Lizard Head Pass

Surveyed Date: 8/24/2016

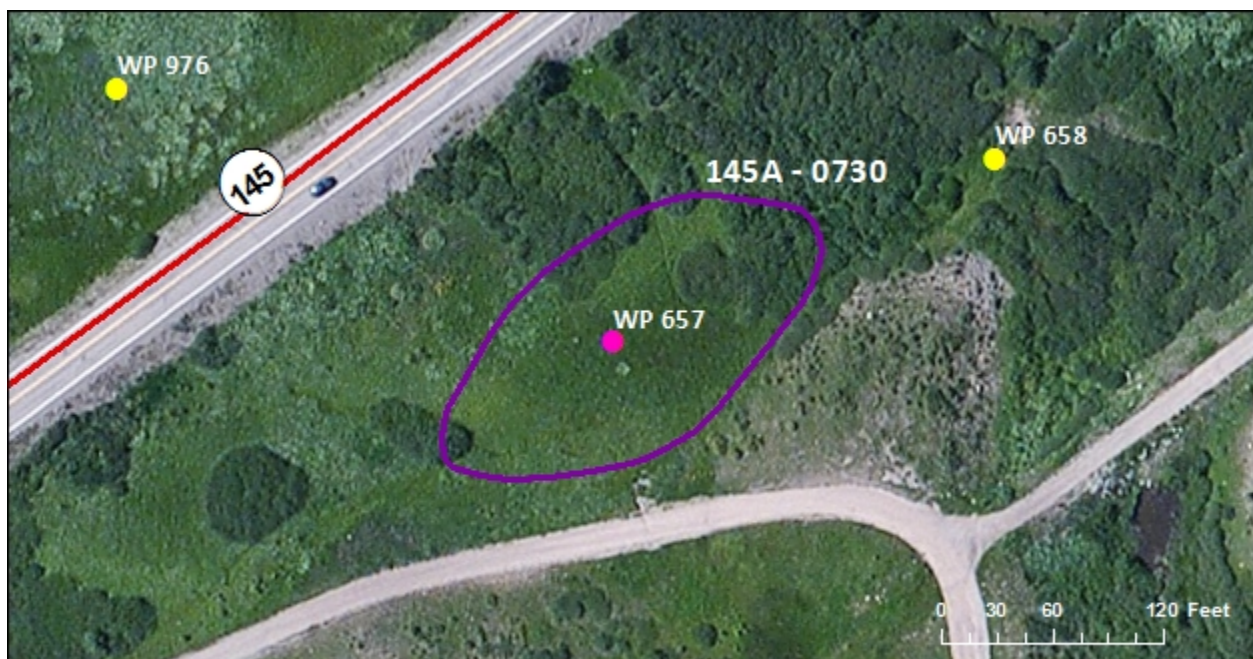
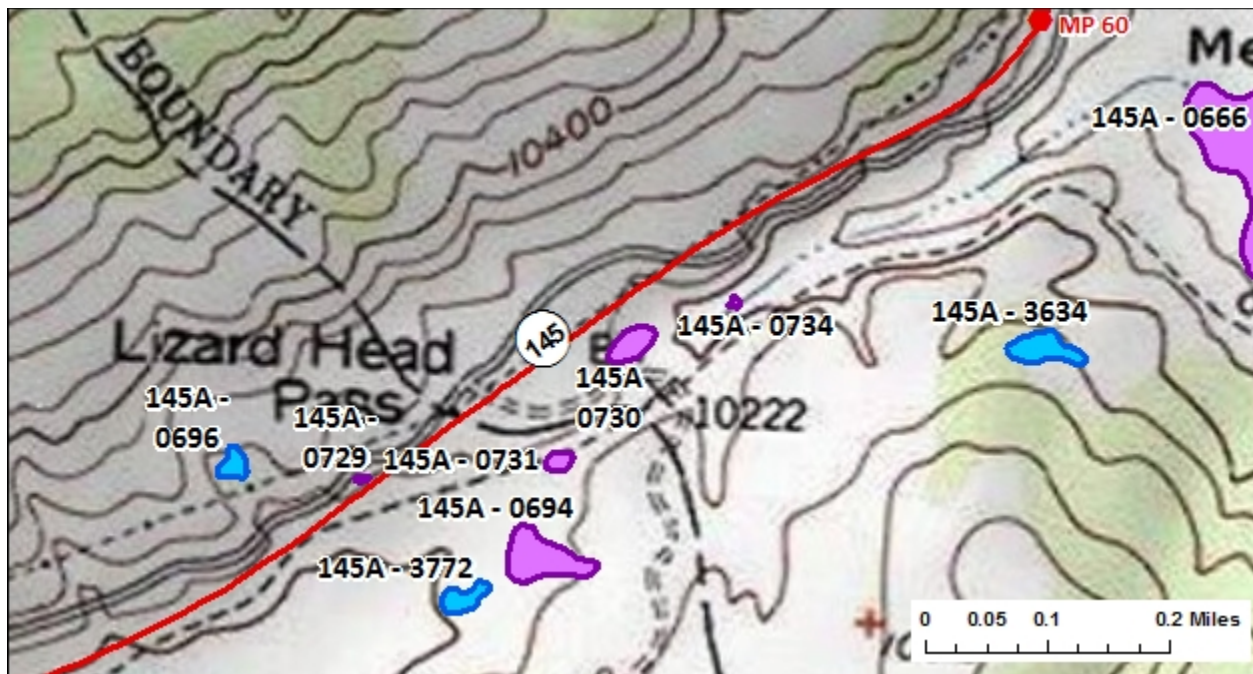
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,256 ft

Size: 0.47 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: In a depression near the highway, upslope from stream. Dominated by *Carex aquatilis*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
COSC2	<i>Conioselinum scopulorum</i>	6	17.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
RUAQO	<i>Rumex aquaticus ssp. occidentalis</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
ROPA2	<i>Rorippa palustris</i>	2	0.5
TRITI	<i>Triticum</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
CAIL	<i>Carex illota</i>	1	0.1
PEFL15	<i>Pentaphylloides floribunda</i>	1	0.1

Fen Polygon: 145A - 0731

Nearest Milepoint: SH 145, MP 59

Location: Lizard Head Pass

Surveyed Date: 8/25/2016

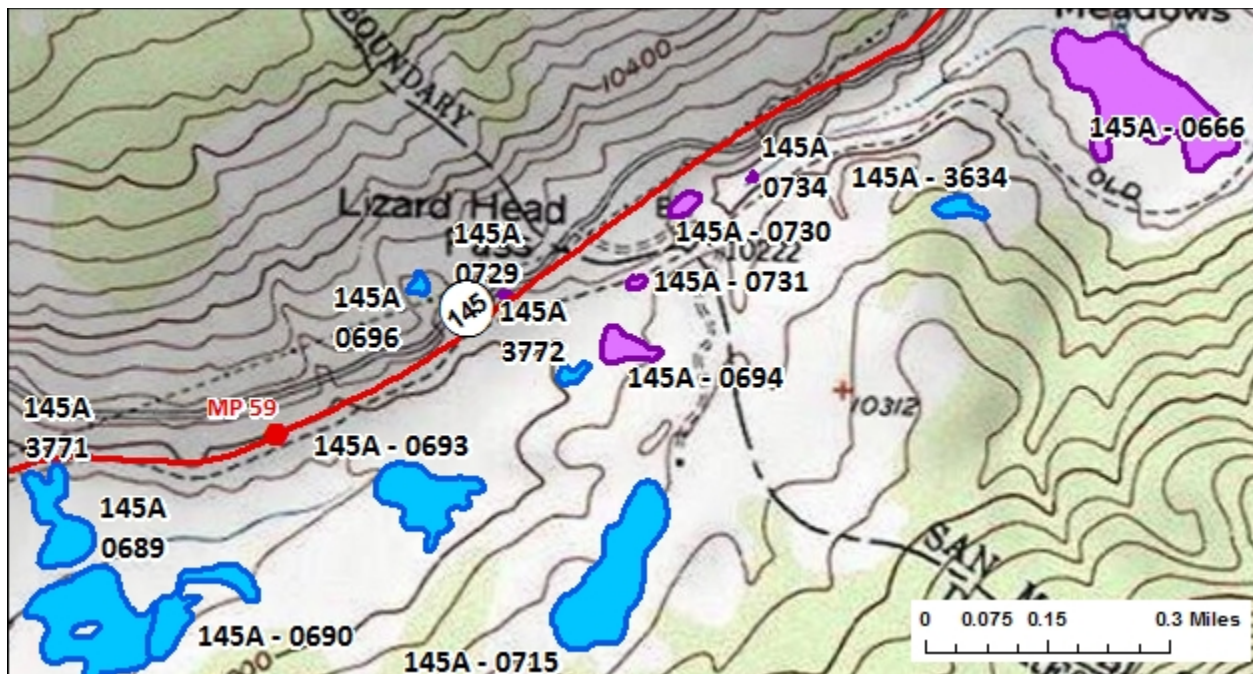
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,249 ft

Size: 0.18 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Depressional fen, part of larger wetland complex. Dominated by *Carex utriculata*. *Salix wolfii* on wetland edges.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAMO2	<i>Salix monticola</i>	4	3.5
SAWO	<i>Salix wolfii</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
POA	<i>Poa</i>	2	0.5
ROPA2	<i>Rorippa palustris</i>	2	0.5
TRITI	<i>Triticum</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1

Fen Polygon: 145A - 0734

Nearest Milepoint: SH 145, MP 60

Location: Lizard Head Pass

Surveyed Date: 8/24/2016

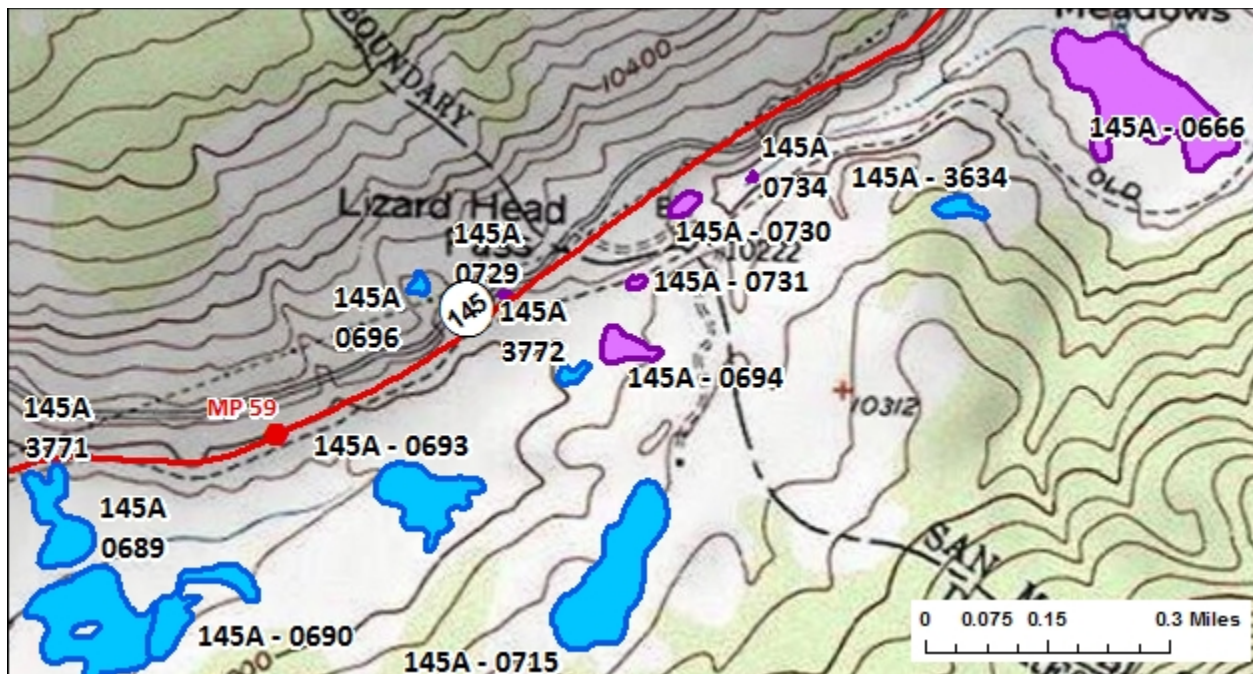
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,230 ft

Size: 0.04 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Small fen in a break in the *Salix*, near a stream channel. Dominated by *Carex utriculata*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
RUAQO	<i>Rumex aquaticus ssp. occidentalis</i>	4	3.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
CIRSI	<i>Cirsium</i>	3	1.5
ROPA2	<i>Rorippa palustris</i>	3	1.5

Fen Polygon: 145A - 0739

Nearest Milepoint: SH 145, MP 61

Location: Near Lizard Head Creek

Surveyed Date: 8/24/2016

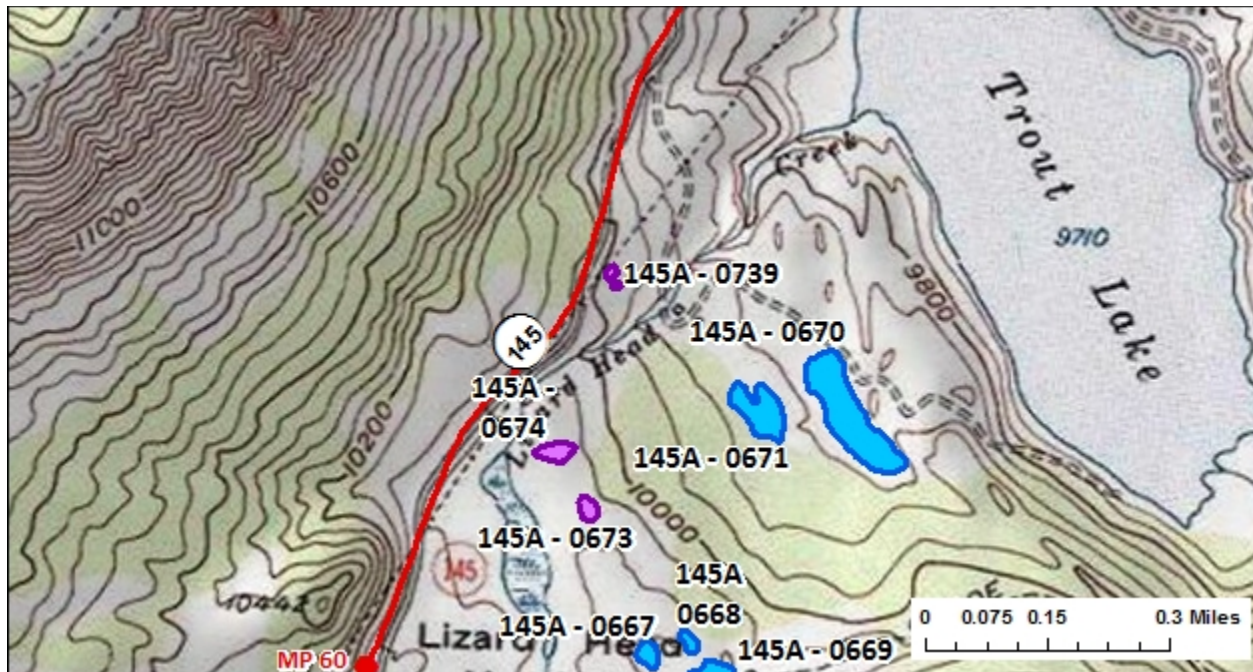
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,033 ft

Size: 0.17 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Sloping fen, with spruce overstory and abundant *Equisetum*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
HILA5	<i>Hippochaete laevigata</i>	7	37.5
ACCO4	<i>Aconitum columbianum</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	5	7.5
SAPL2	<i>Salix planifolia</i>	5	7.5
SETR	<i>Senecio triangularis</i>	5	7.5
MAST4	<i>Maianthemum stellatum</i>	4	3.5
THALI2	<i>Thalictrum</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
GERI	<i>Geranium richardsonii</i>	2	0.5
HESPM	<i>Heracleum sphondylium ssp. montanum</i>	2	0.5
JULO	<i>Juncus longistylis</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1
PARNA	<i>Parnassia</i>	1	0.1
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	1	0.1

Fen Polygon: 145A - 0745

Nearest Milepoint: SH 145, MP 62

Location: Adjacent to Priest Lake Road

Surveyed Date: 8/24/2016

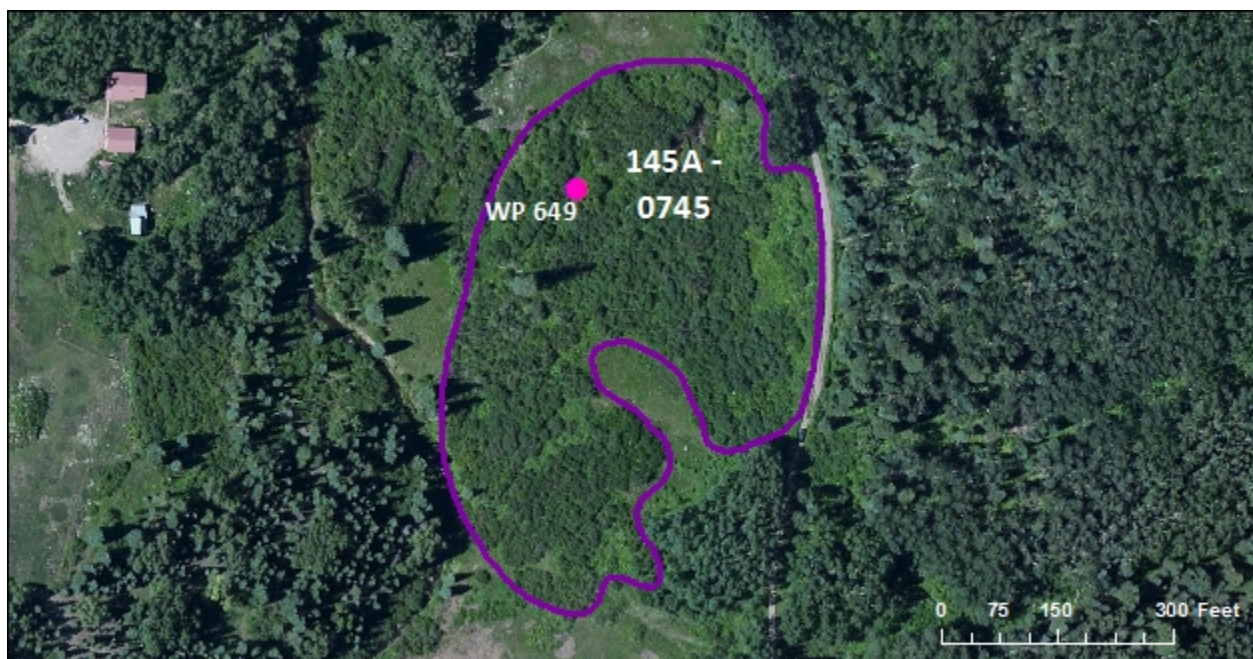
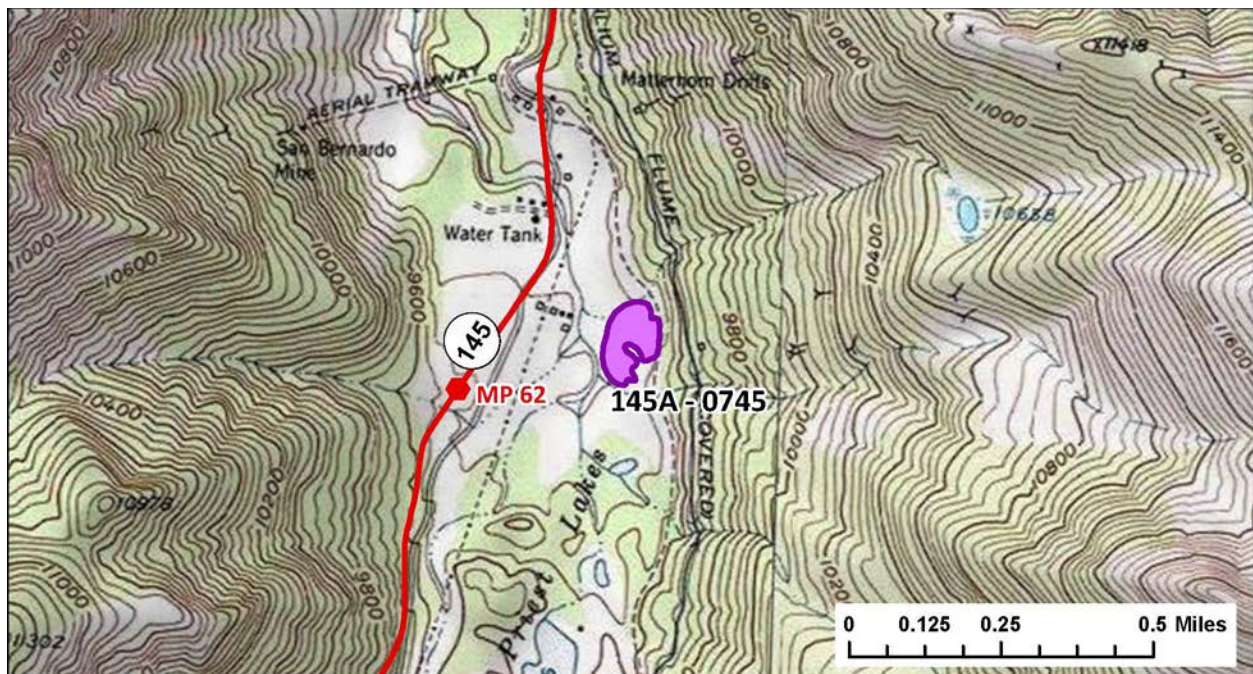
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,488 ft

Size: 5.46 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Fen near stream channel and beaver ponds. Dominated by *Carex utriculata*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
SAMO2	<i>Salix monticola</i>	7	37.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	3	1.5
VEAM2	<i>Veronica americana</i>	3	1.5
BRAR20	<i>Breia arvensis</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5
HESPM	<i>Heracleum sphondylium</i> ssp. <i>montanum</i>	2	0.5
ROPA2	<i>Rorippa palustris</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
ACCO4	<i>Aconitum columbianum</i>	1	0.1
CIRSI	<i>Cirsium</i>	1	0.1
HILA5	<i>Hippochaete laevigata</i>	1	0.1
MECI3	<i>Mertensia ciliata</i>	1	0.1
PIEN	<i>Picea engelmannii</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 145A - 0757

Nearest Milepoint: SH 145, MP 67

Location: Adjacent to Sunshine Campground

Surveyed Date: 8/24/2016

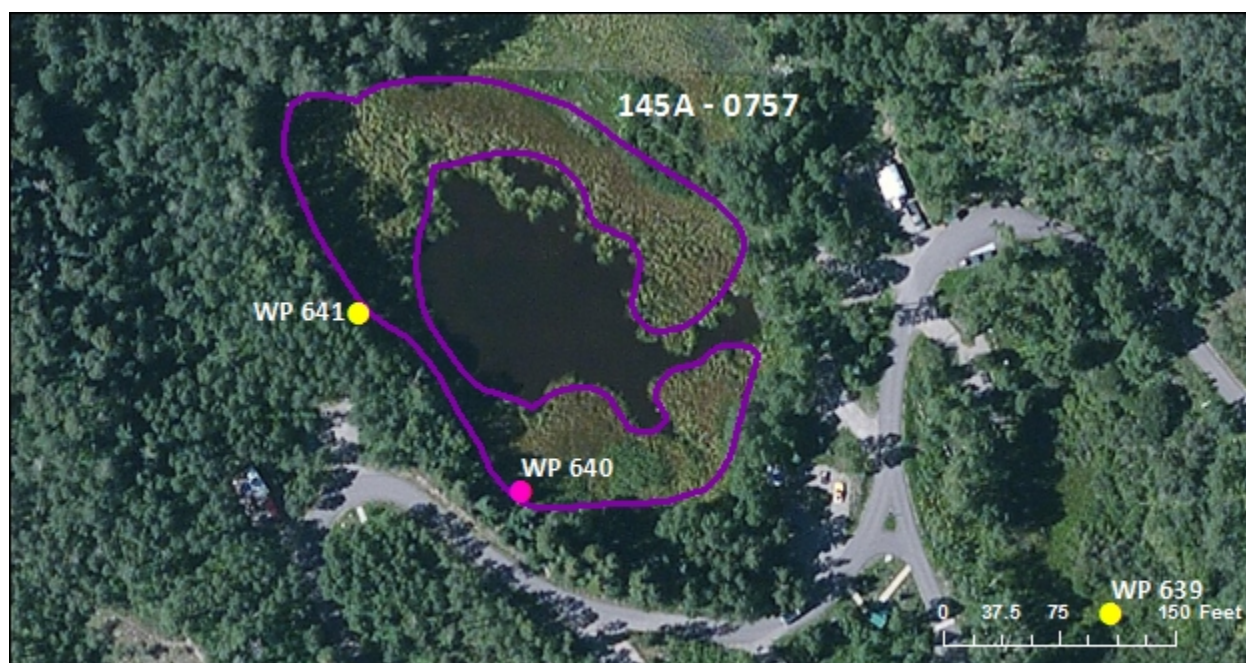
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,547 ft

Size: 0.84 acres

ROW Status: Public Easement

Primary Landowner: Uncompahgre National Forest



Description: Very saturated, *Carex* dominated fen around pond edge, surrounded by aspen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
SAMO2	<i>Salix monticola</i>	5	7.5
HILA5	<i>Hippochaete laevigata</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5
PERAA	<i>Pedicularis racemosa ssp. alba</i>	1	0.1
POA	<i>Poa</i>	1	0.1

Fen Polygon: 145A - 0773

Nearest Milepoint: SH 145, MP 69

Location: On Beaver Pond Lane, outside of Keystone, CO

Surveyed Date: N/A

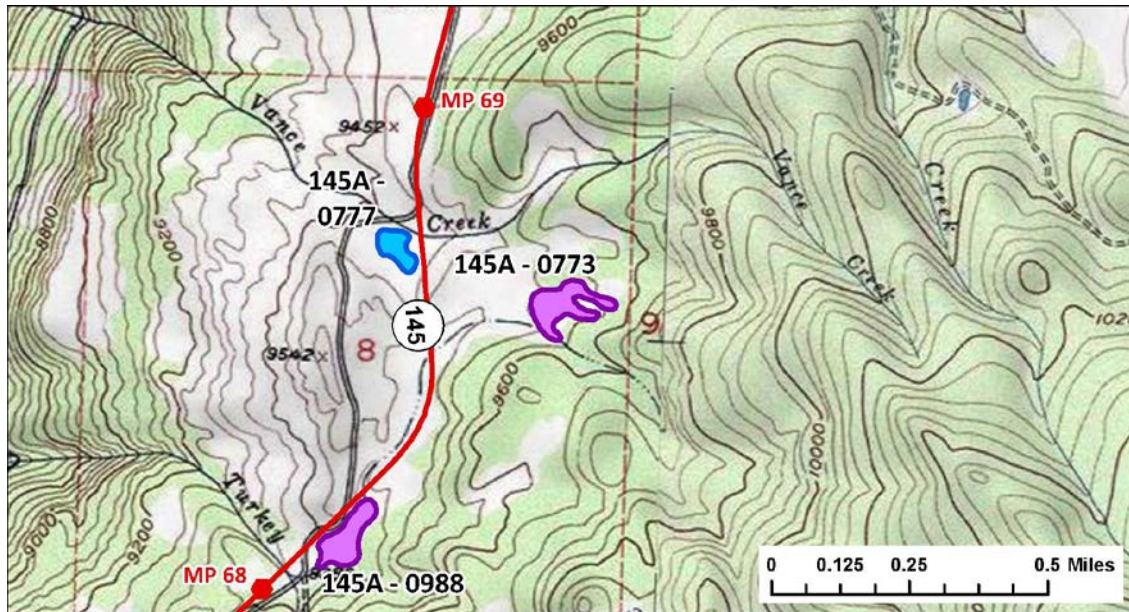
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,528 ft

Size: 4.72 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Private Property



Description: Not surveyed. Polygon includes area that is a fen confirmed by previous survey (Johnston et al. 2012).

Fen Polygon: 145A - 0786

Nearest Milepoint: SH 145, MP 70

Location: Mountain Village, CO

Surveyed Date: N/A

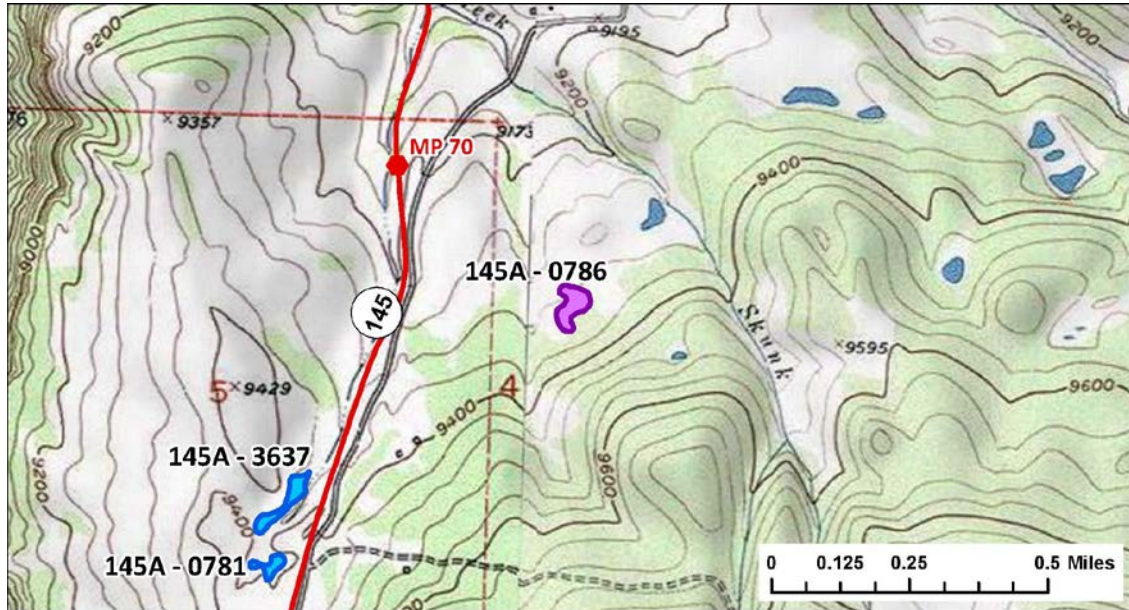
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,327 ft

Size: 1.94 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowner: Private Property



Description: Not surveyed. Polygon includes area that is a fen confirmed by previous survey (Johnston et al. 2012).

Fen Polygon: 145A - 0988

Nearest Milepoint: SH 145, MP 68

Location: Mountain Village, CO

Surveyed Date: 8/27/2017

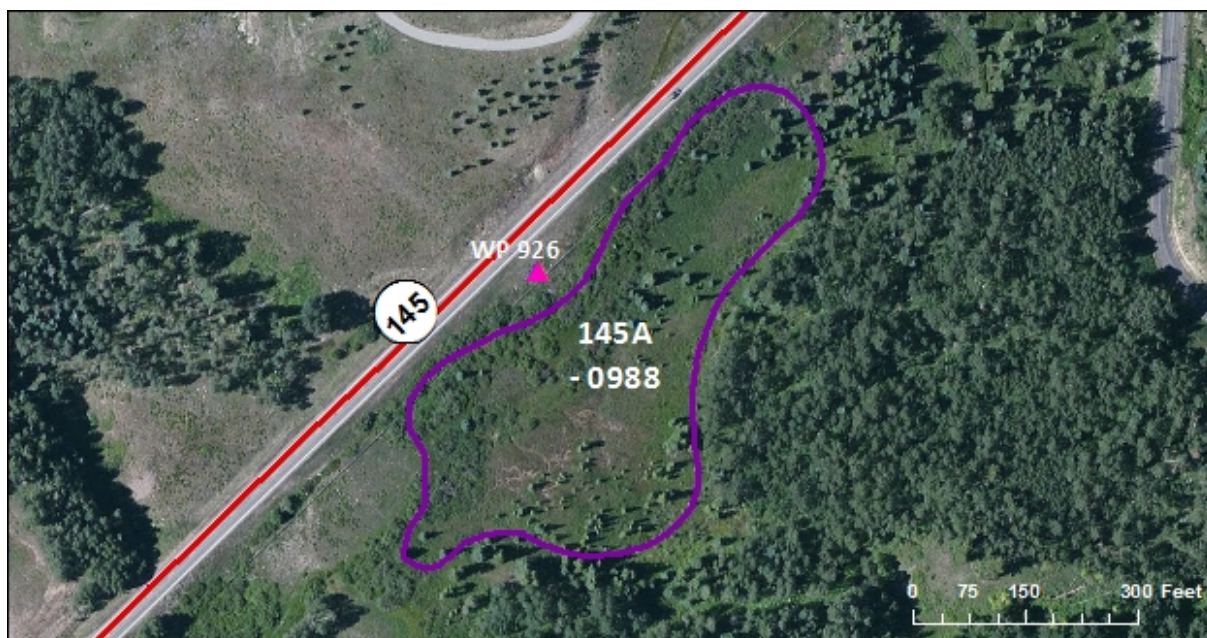
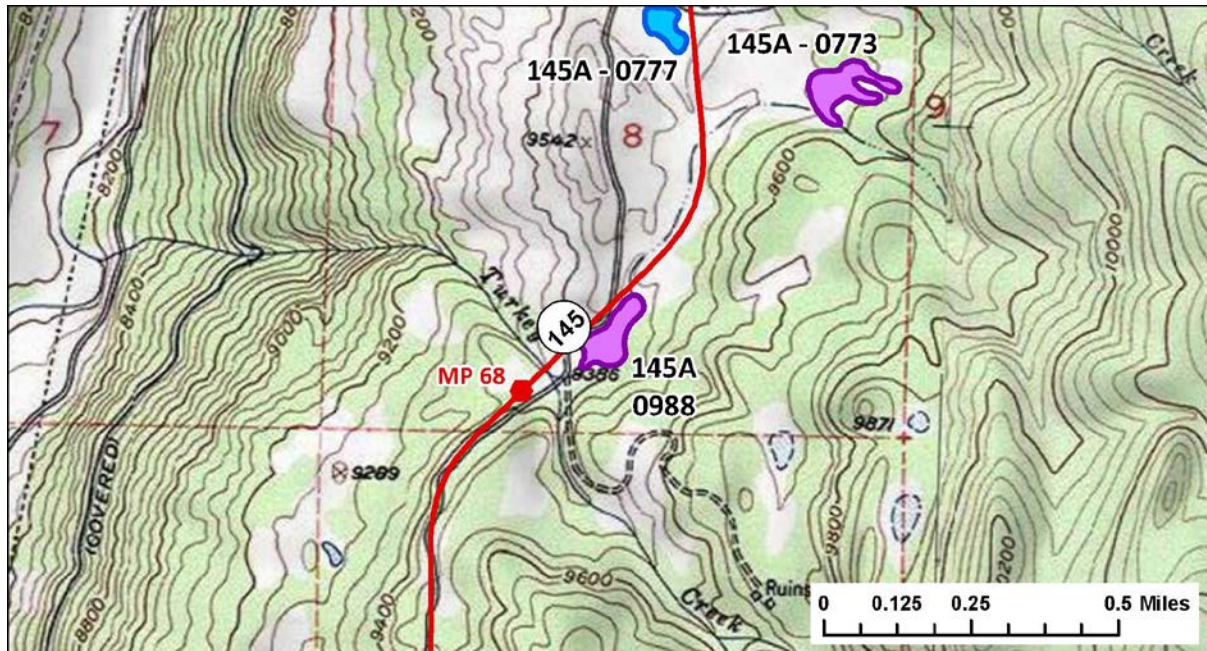
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 9,406 ft

Size: 3.92 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowner: Private Property



Description: Polygon is a confirmed fen from previous survey (Johnston et al. 2012). Viewed from ROW. There is contiguous wetland in the ROW.

Site Photo



Fen Polygon: 149A - 0001

Nearest Milepoint: SH 149, MP 50

Location: Adjacent to Spring Creek

Surveyed Date: 8/10/2016

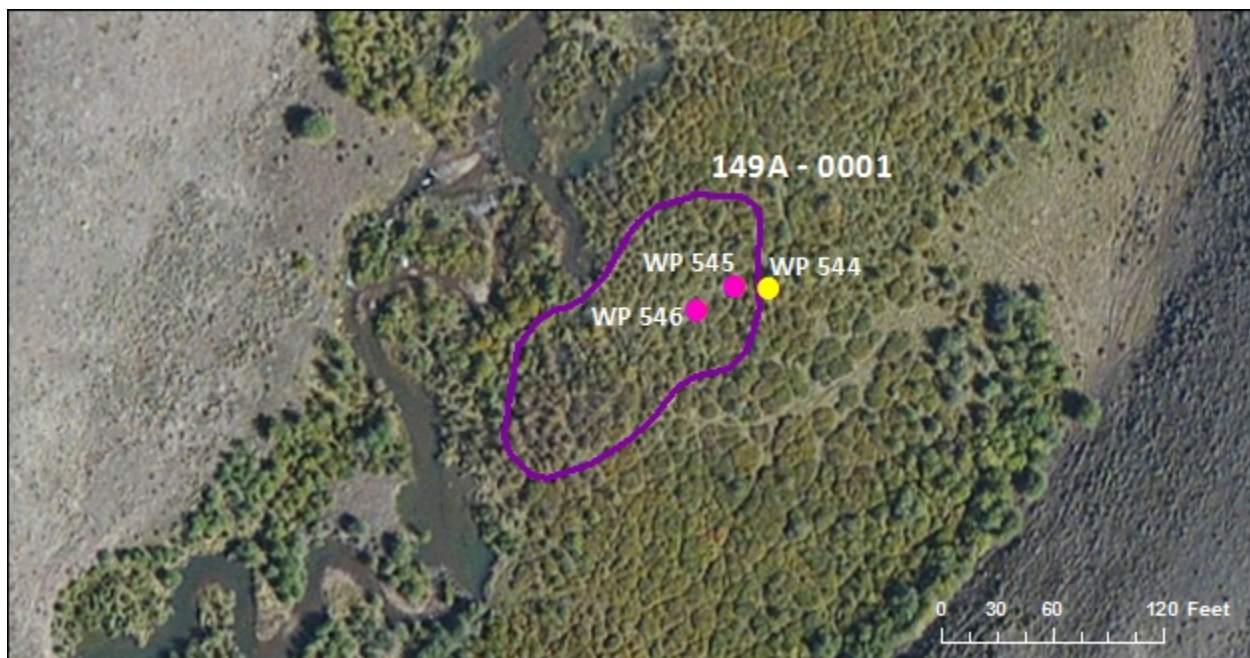
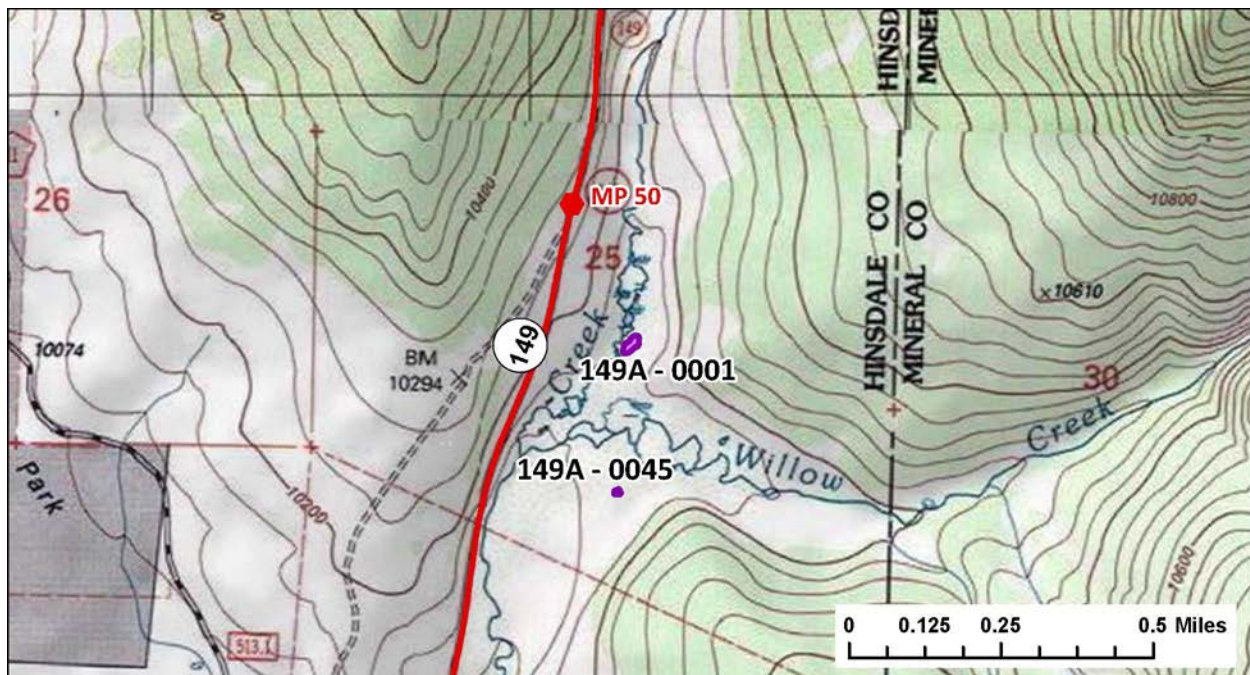
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,161 ft

Size: 0.29 acres

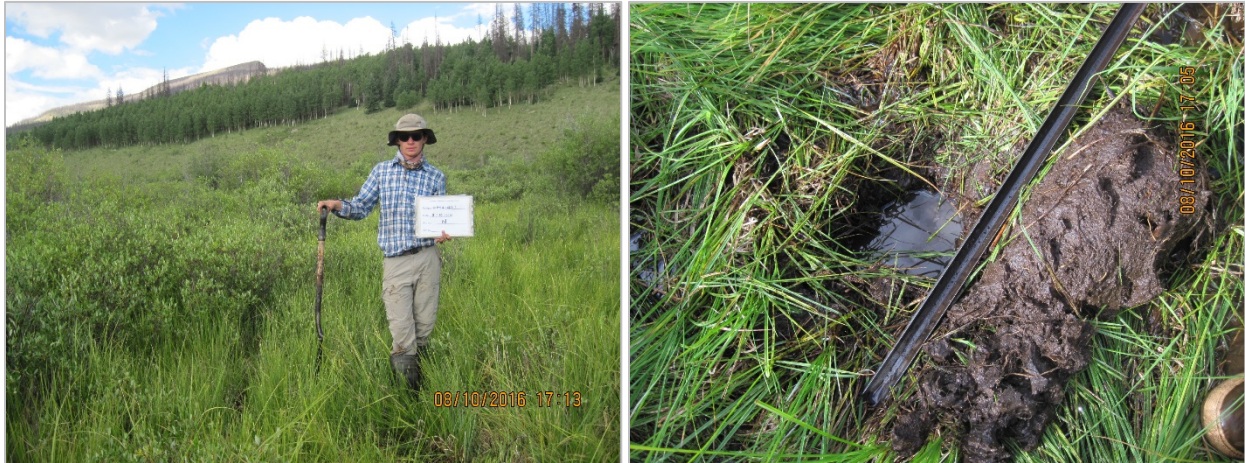
ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small fen adjacent to creek. Dominated by *Salix planifolia* and *Carex untriculata*.

Site Photos



Species Code

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
SAWO	<i>Salix wolfii</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
DECE	<i>Deschampsia cespitosa</i>	1	0.1
POLEM	<i>Polemonium</i>	1	0.1

Fen Polygon: 149A - 0045

Nearest Milepoint: SH 149, MP 50

Location: Near the confluence of Willow and Spring Creek

Surveyed Date: 8/11/2016

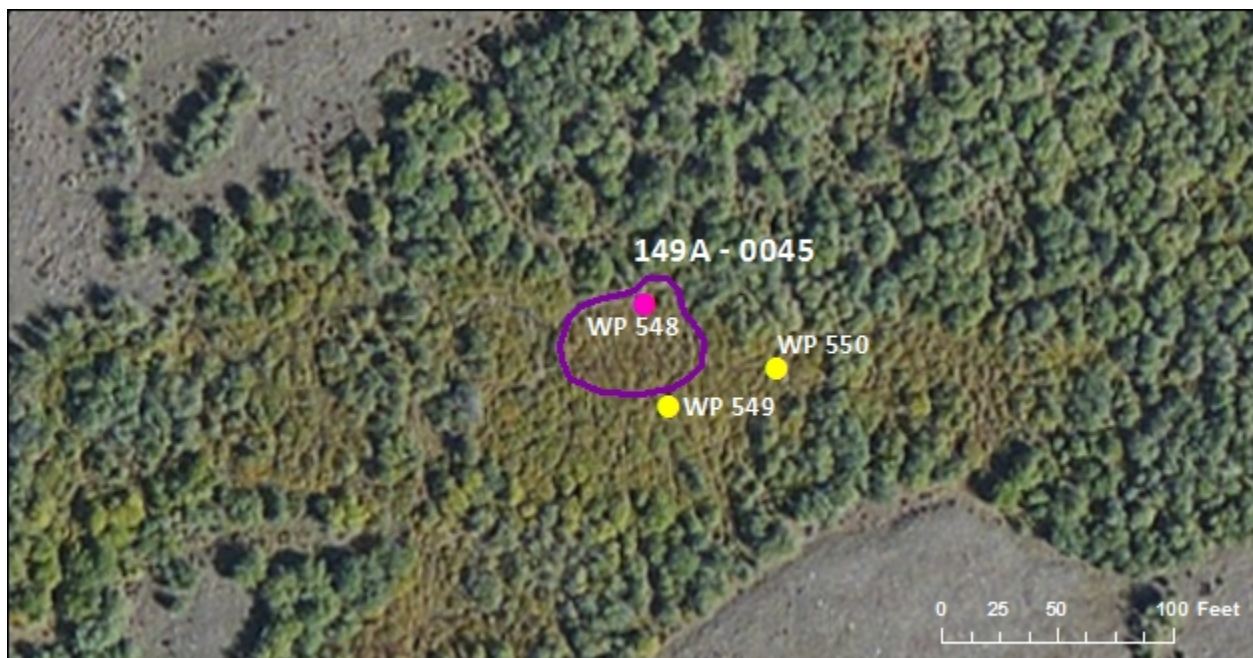
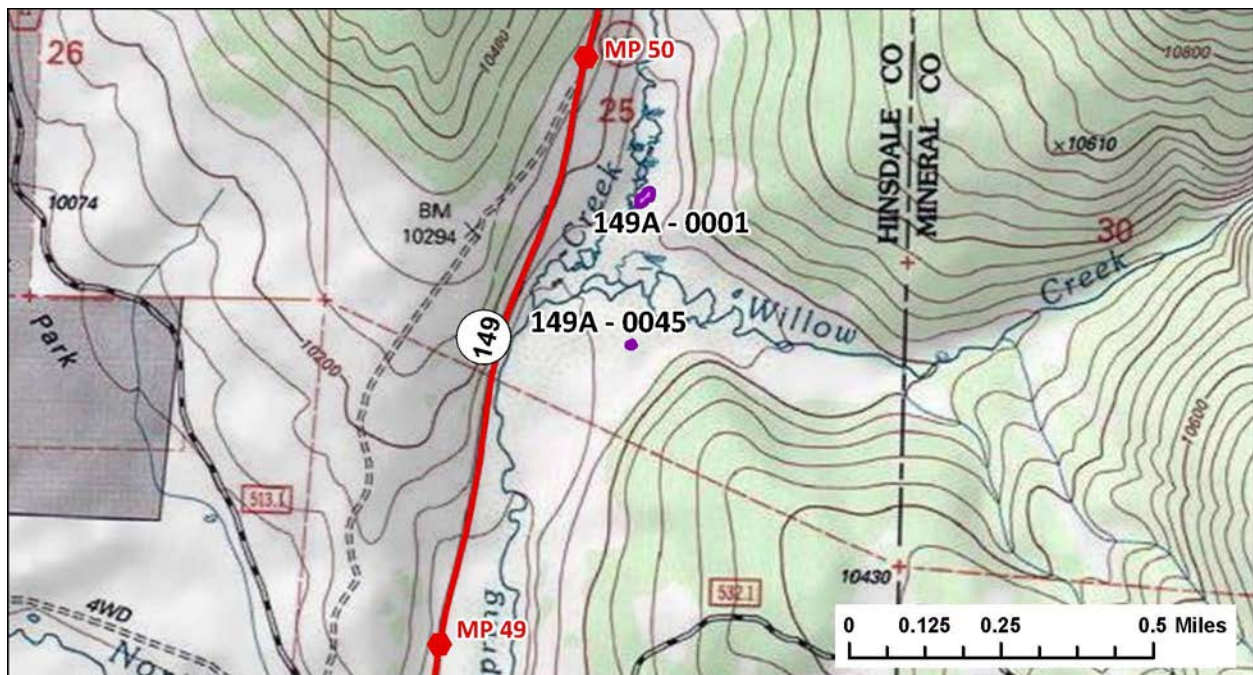
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,148 ft

Size: 0.05 acres

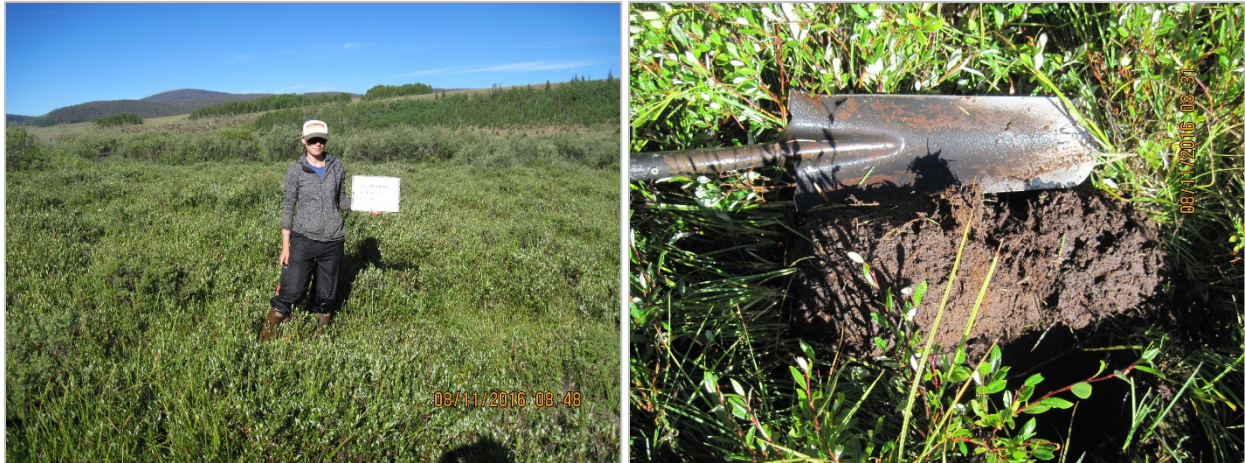
ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Small fen near creek. In clearing, with *Salix wolfii* on edges.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAUT	<i>Carex utriculata</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
SAWO	<i>Salix wolfii</i>	3	1.5
CAIL	<i>Carex illota</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 149A - 0050

Nearest Milepoint: SH 149, MP 54

Location: Adjacent to Spring Creek, near Spring Creek Pass

Surveyed Date: 8/10/2016

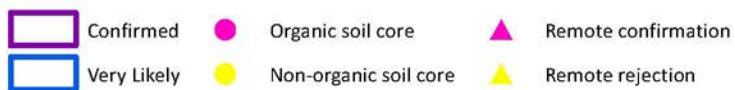
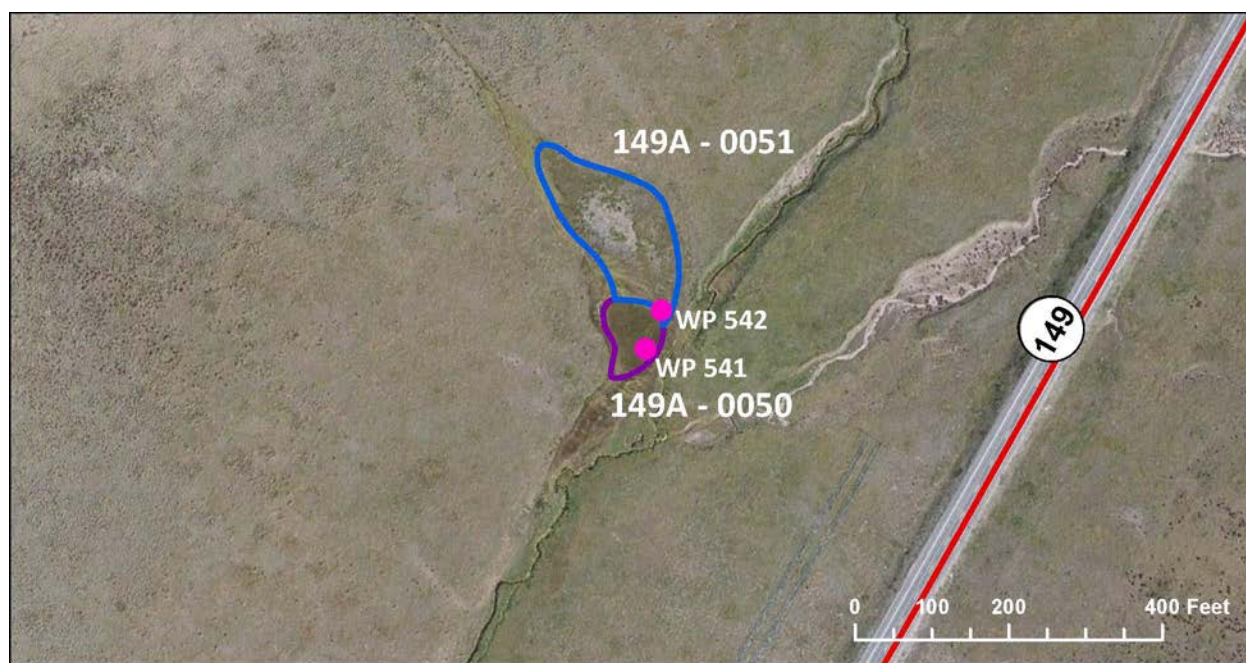
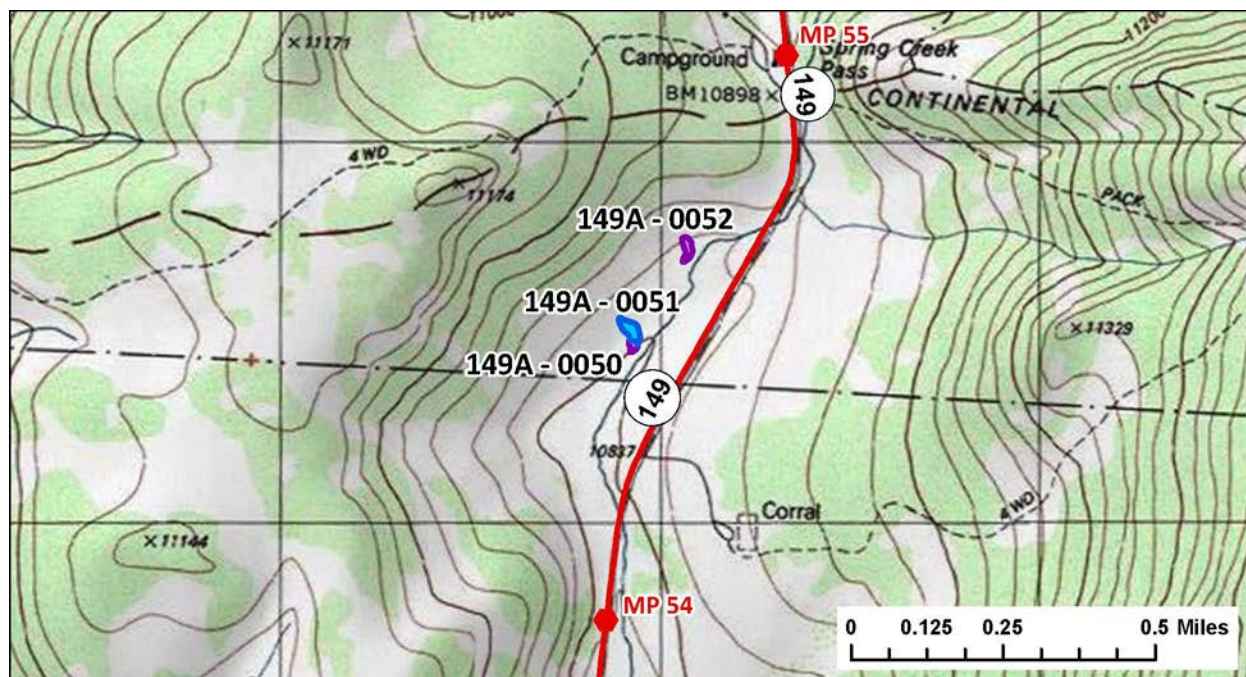
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,810 ft

Size: 0.13 acres

ROW Status: Public Easement

Primary Landowner: Gunnison National Forest



Description: Gently sloping fen in a depression, dominated by *Carex* species. (WP 542 was taken on the edge of this polygon and 149-0051. WP 541 (taken in the center of the polygon) is missing photos and species list; photos and species list from WP 542 are listed below.)

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
CAIL	<i>Carex illota</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	2	0.5
VEAM2	<i>Veronica americana</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
F-GENTI	<i>Gentianaceae</i>	1	0.1
PEFL15	<i>Pentaphylloides floribunda</i>	1	0.1

Fen Polygon: 149A - 0051

Nearest Milepoint: SH 149, MP 54

Location: Adjacent to Spring Creek, near Spring Creek Pass

Surveyed Date: 8/10/2016

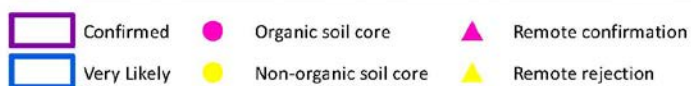
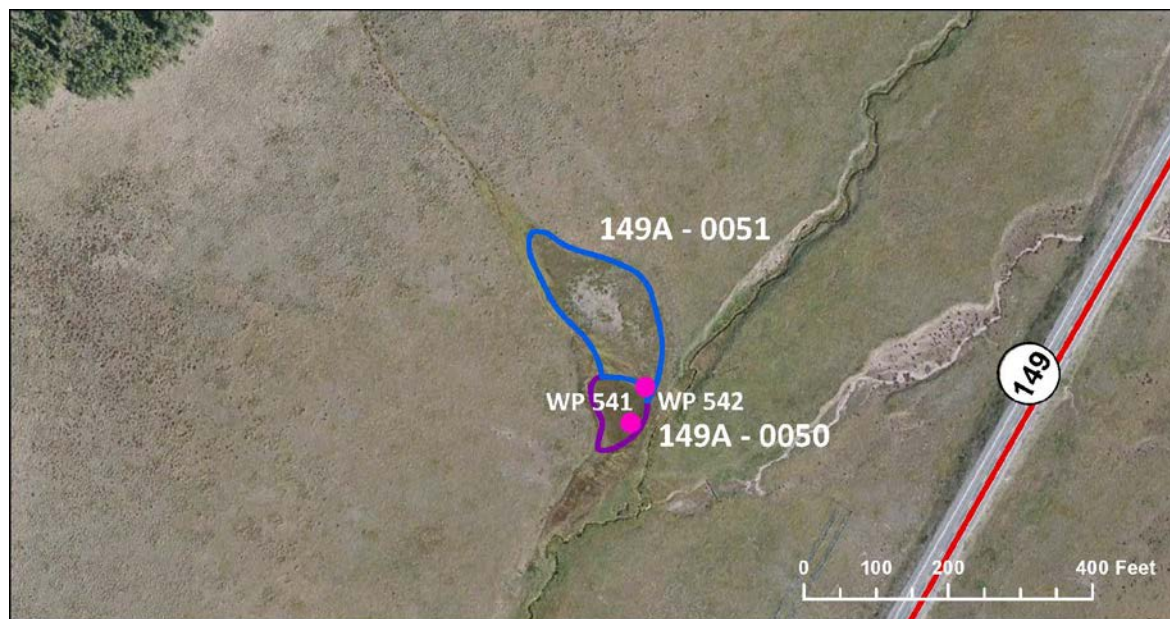
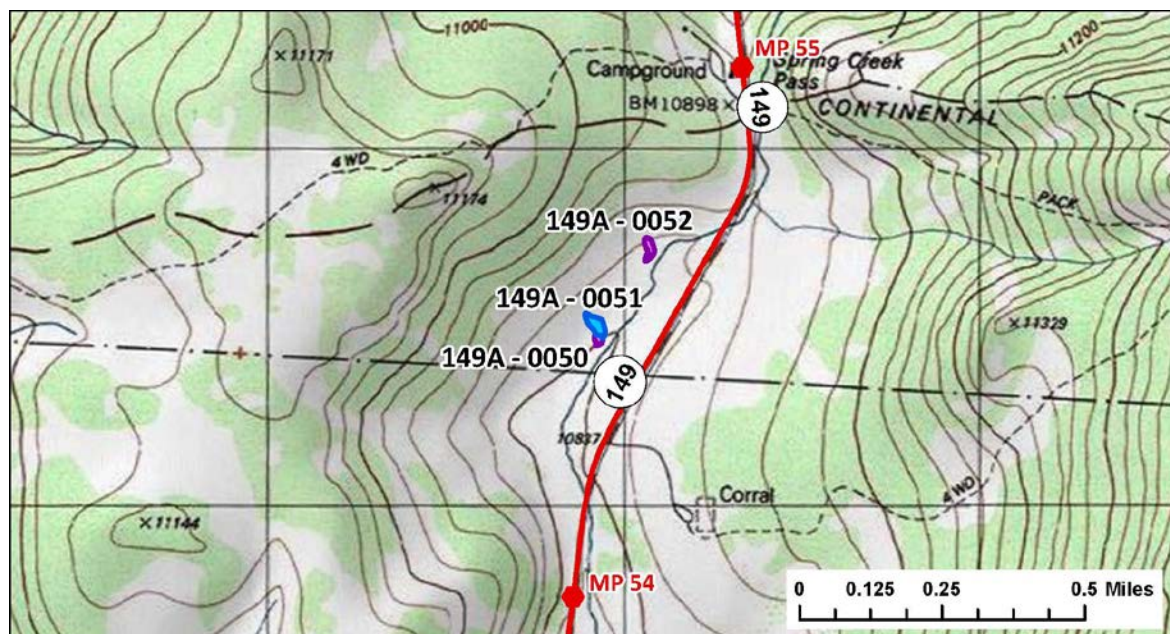
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,820 ft

Size: 0.50 acres

ROW Status: Public Easement

Primary Landowner: Gunnison National Forest



Description: Polygon not surveyed, except for soil core taken on very edge of polygon. Polygon is a likely fen. See 149A-0050 for more information.

Fen Polygon: 149A - 0052

Nearest Milepoint: SH 149, MP 55

Location: Adjacent to Spring Creek, near Spring Creek Pass

Surveyed Date: 8/10/2016

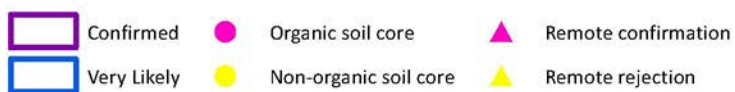
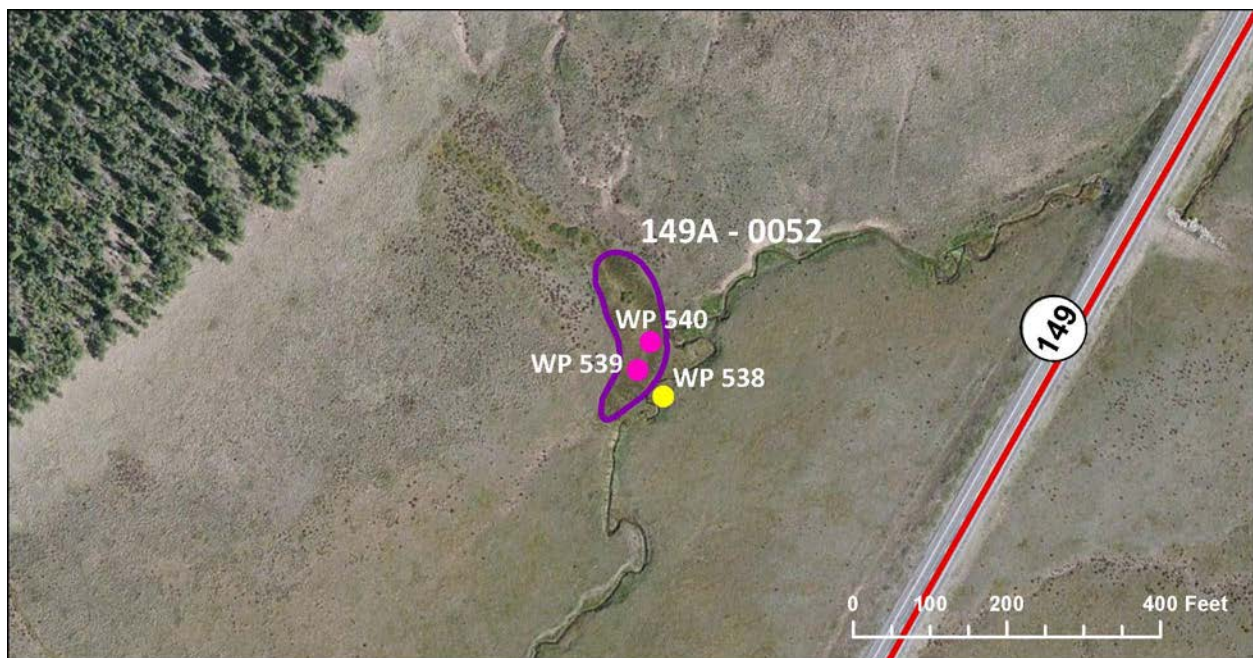
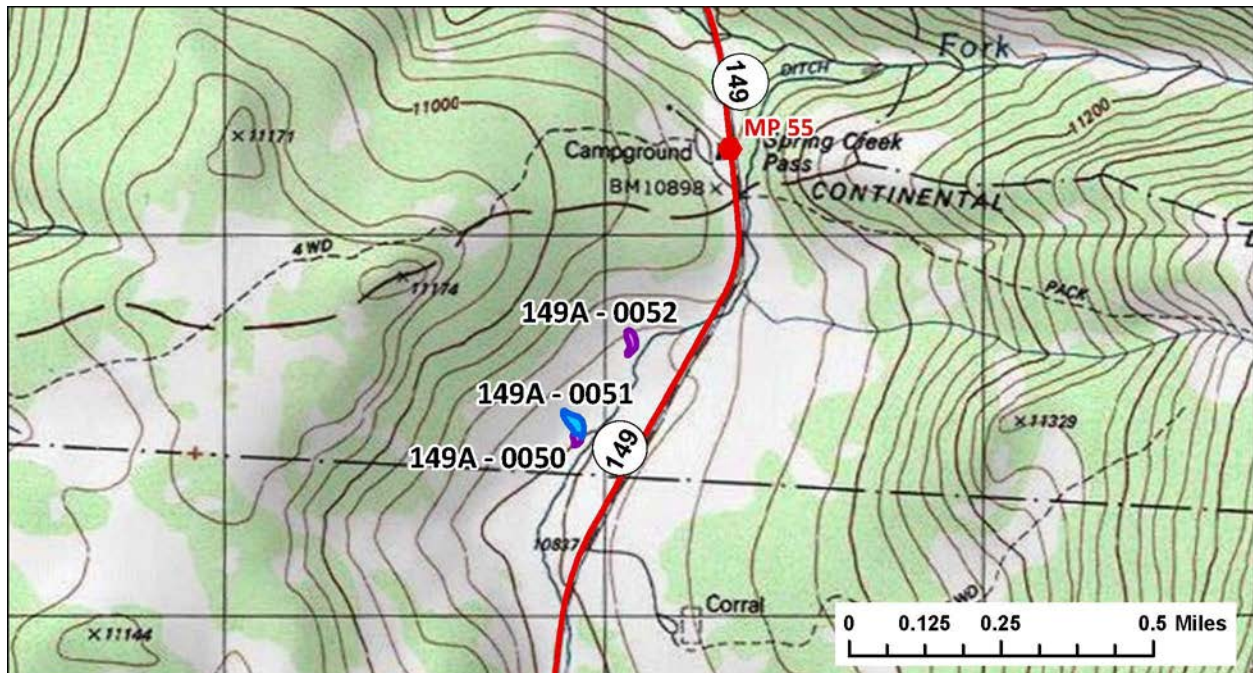
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,843 ft

Size: 0.30 acres

ROW Status: Public Easement

Primary Landowner: Gunnison National Forest



Description: Streamside fen, in downslope area. Dominated by *Carex* and *Deschampsia*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
DECE	<i>Deschampsia cespitosa</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	4	3.5
SWPE	<i>Swertia perennis</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
CAEB	<i>Carex ebenea</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
PHCO9	<i>Phleum commutatum</i>	2	0.5
ANTEN	<i>Antennaria</i>	1	0.1
EPHO	<i>Epilobium hornemannii</i>	1	0.1
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	1	0.1
STELL	<i>Stellaria</i>	1	0.1

Fen Polygon: 149A - 0071

Nearest Milepoint: SH 149, MP 63

Location: Slumgullion Pass

Surveyed Date: N/A

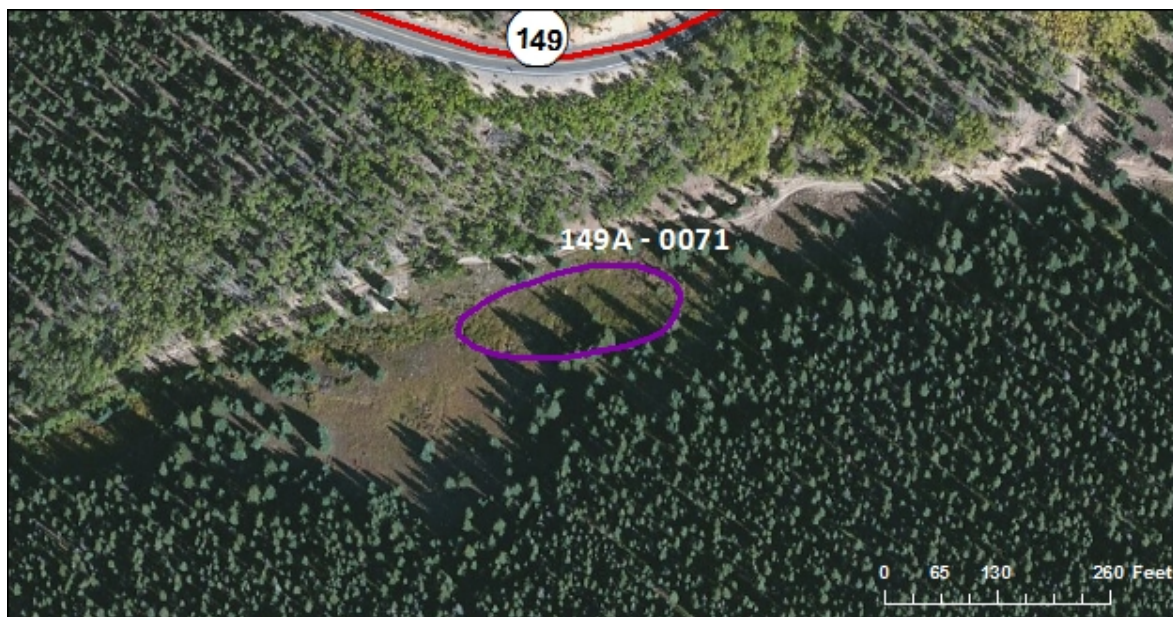
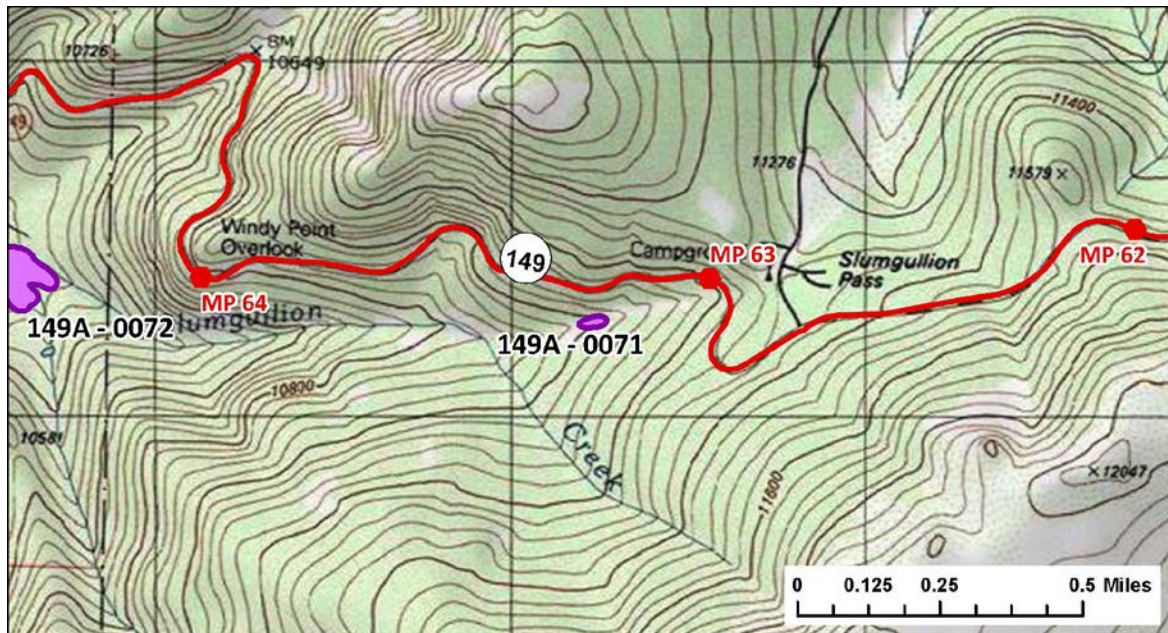
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 11,020 ft

Size: 0.46 acres

ROW Status: Public Easement

Primary Landowner: Gunnison National Forest



Description: Not surveyed. Polygon part of a fen confirmed by previous survey (Johnston et al. 2012).

Fen Polygon: 149A - 0072

Nearest Milepoint: SH 149, MP 65

Location: Adjacent to Slumgullion Creek

Surveyed Date: N/A

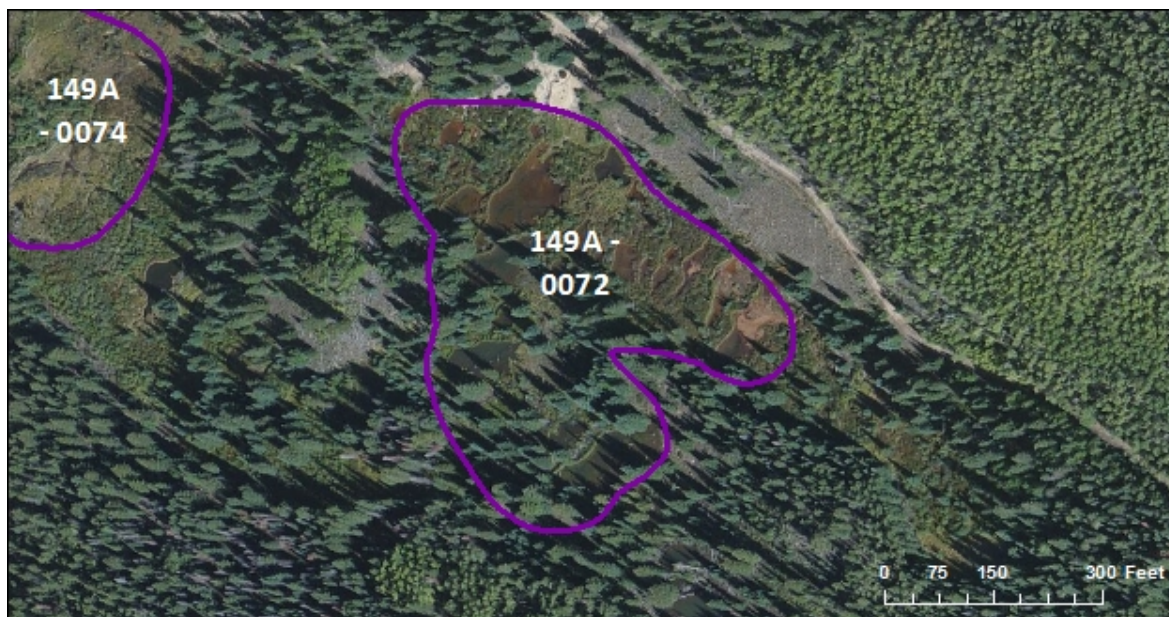
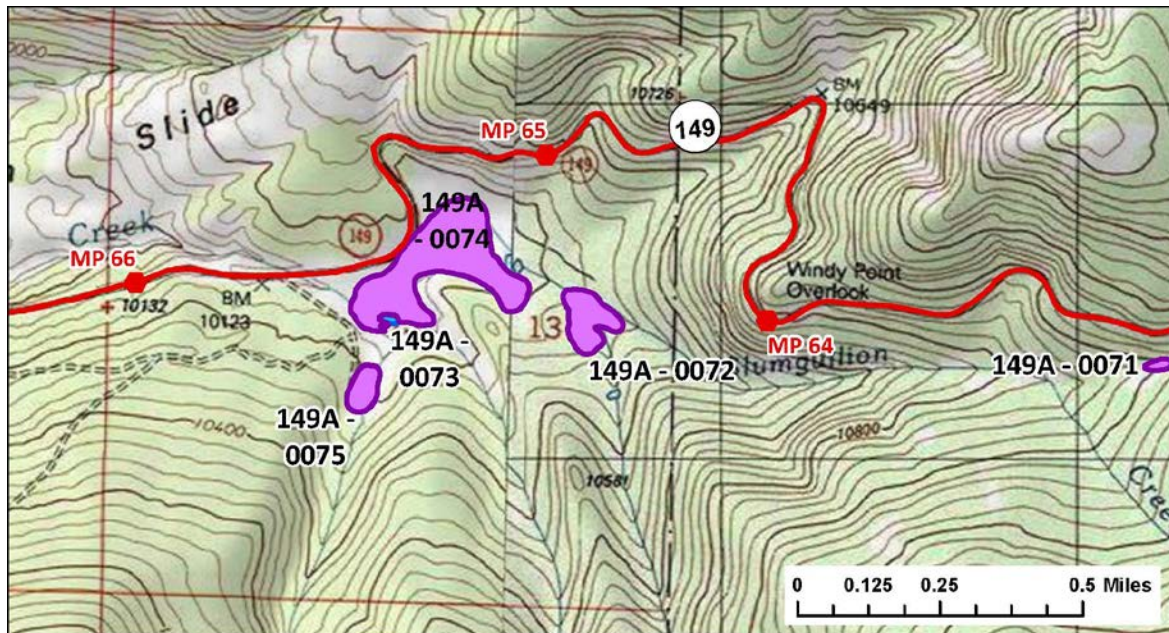
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,256 ft

Size: 4.60 acres

ROW Status: Public Easement

Primary Landowner: Bureau of Land Management



Description: Not surveyed. Difficult to access. Polygon part of a fen confirmed by previous survey (Johnston et al. 2012).

Fen Polygon: 149A - 0074

Nearest Milepoint: SH 149, MP 65

Location: Adjacent to Slumgullion Creek and Colorado State Highway 149

Surveyed Date: 8/10/2016

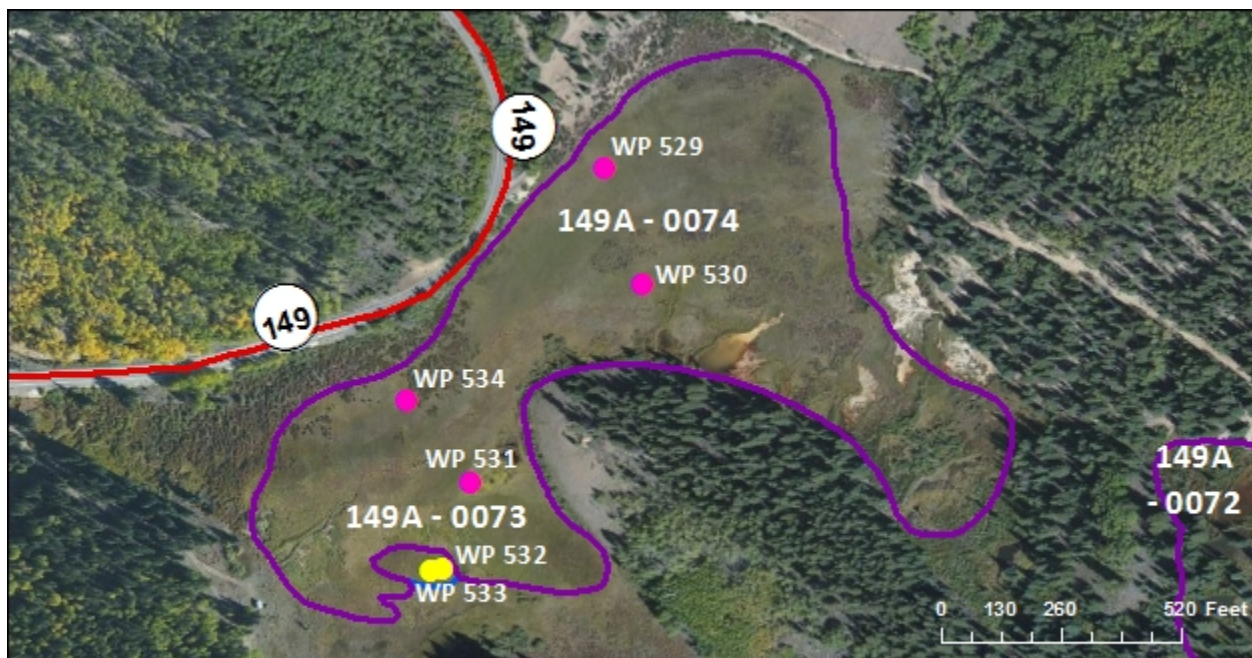
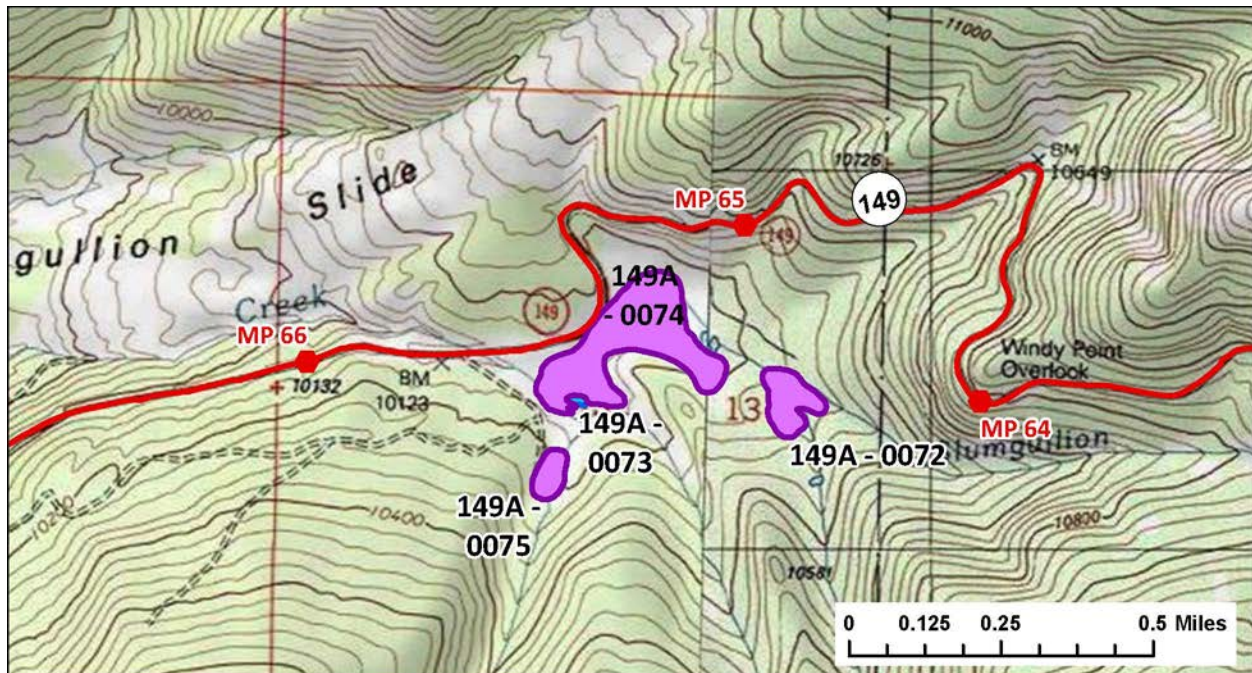
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,161 ft

Size: 20.04 acres

ROW Status: Public Easement

Primary Landowner: Bureau of Land Management



Description: *Carex aquatilis* dominated. Spruce die-off on edges. Areas has floating mats. Abundant moss in area. Standing water in polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
B EGL	<i>Betula glandulosa</i>	6	17.5
CAREX	<i>Carex</i>	6	17.5
CAUT	<i>Carex utriculata</i>	6	17.5
CACA4	<i>Calamagrostis canadensis</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	2	0.5
VIOLA	<i>Viola</i>	2	0.5

Fen Polygon: 149A - 0075

Nearest Milepoint: SH 149, MP 66

Location: Adjacent to 4WD trail off of Colorado State Highway 149

Surveyed Date: N/A

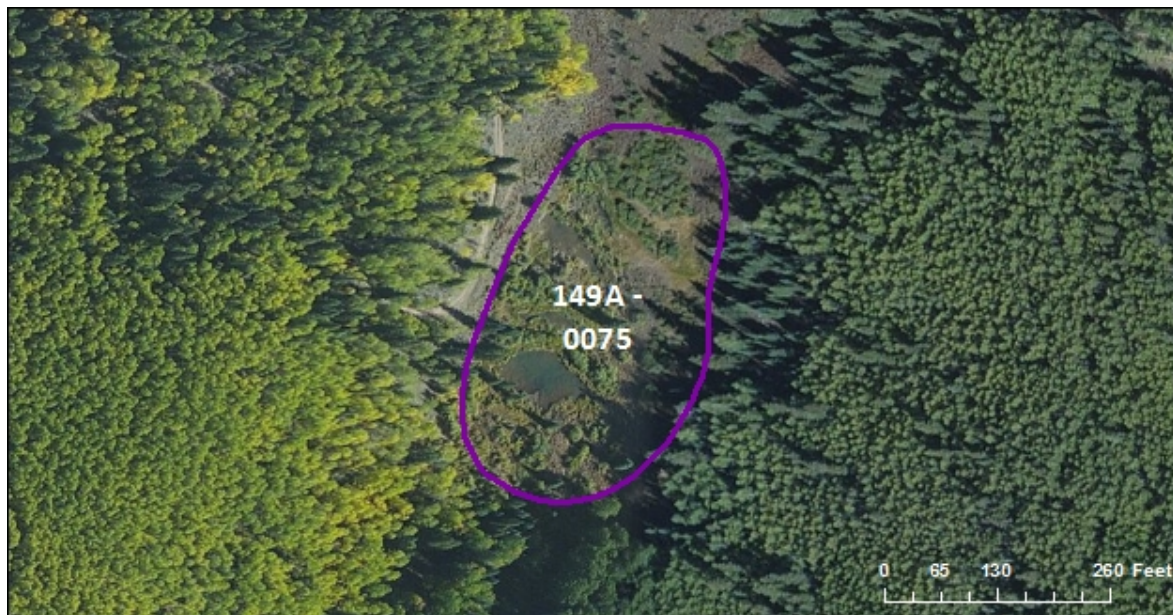
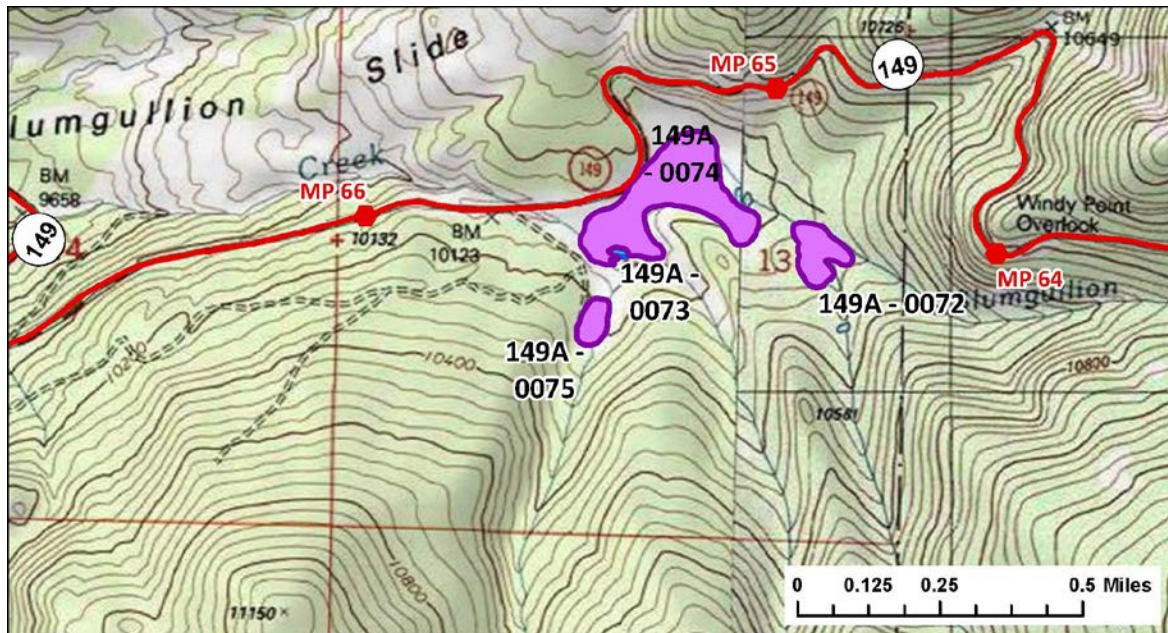
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,217 ft

Size: 2.22 acres

ROW Status: Public Easement

Primary Landowner: Bureau of Land Management



Description: Not surveyed. Far from road. Polygon part of a fen confirmed by previous survey (Johnston et al. 2012).

Fen Polygon: 160A - 0137

Nearest Milepoint: US 160, MP 167

Location: Wolf Creek Pass

Surveyed Date: 8/12/2016

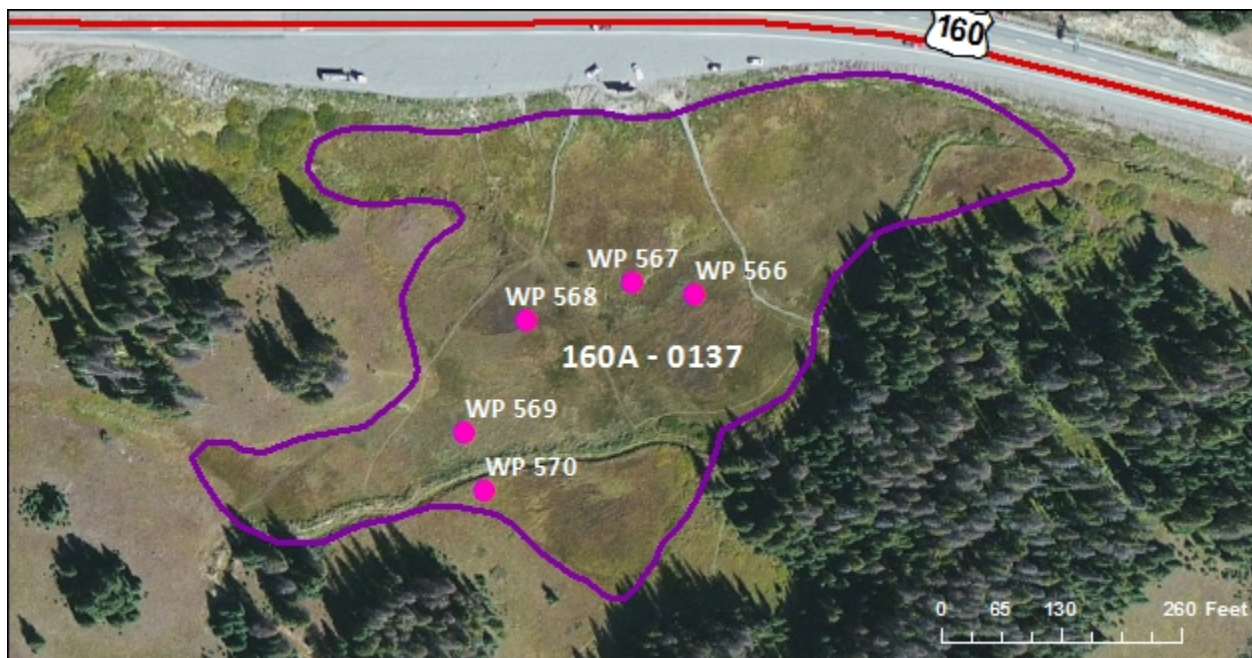
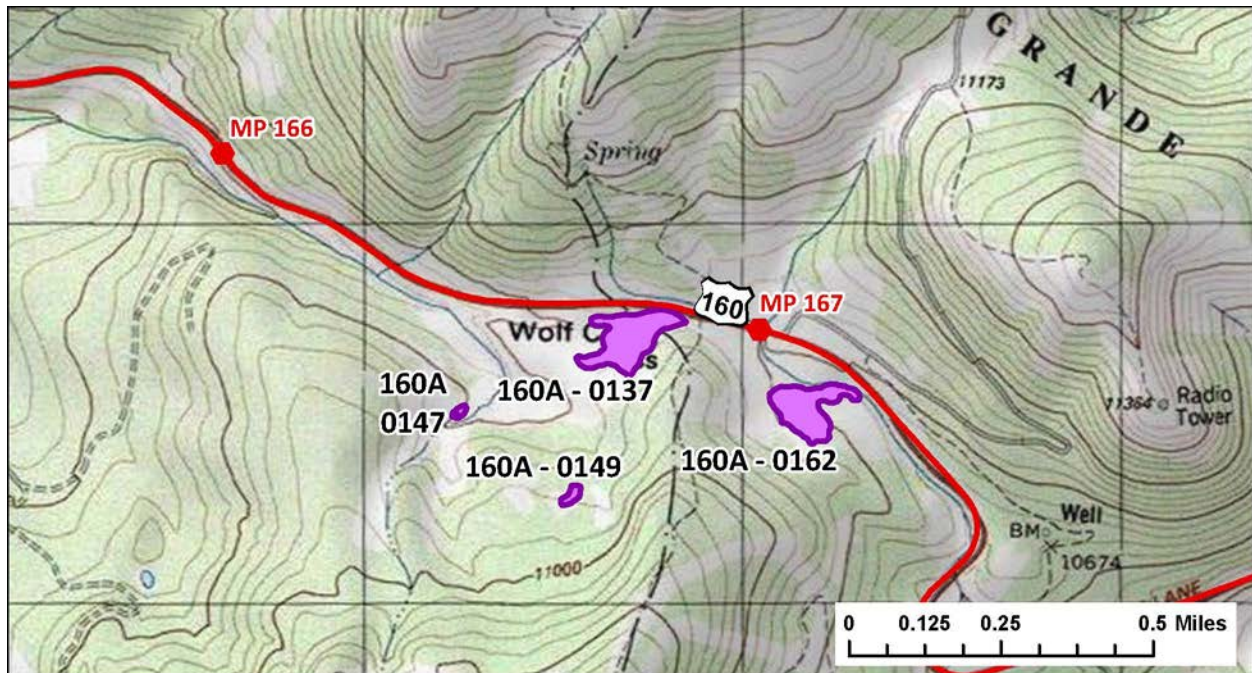
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,837 ft

Size: 5.84 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Great fen adjacent to road. At bottom of slope. Spruce on edges. Two trails cut through middle of polygon. Dominated by *Carex* and *Poaceae* species. Ditch running through upper edge of polygon. Diverse species composition.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CACA4	<i>Calamagrostis canadensis</i>	7	37.5
DECE	<i>Deschampsia cespitosa</i>	7	37.5
CANO3	<i>Carex nova</i>	5	7.5
CAUT	<i>Carex utriculata</i>	5	7.5
BIBI5	<i>Bistorta bistortoides</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
PHCO9	<i>Phleum commutatum</i>	3	1.5
PNPA	<i>Pneumonanthe parryi</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
PEGR2	<i>Pedicularis groenlandica</i>	1	0.1
TOIN3	<i>Tolmachevia integrifolia</i>	1	0.1
VIOLA	<i>Viola</i>	1	0.1

Fen Polygon: 160A - 0144

Nearest Milepoint: US 160, MP 163

Location: Near Lake Creek

Surveyed Date: N/A

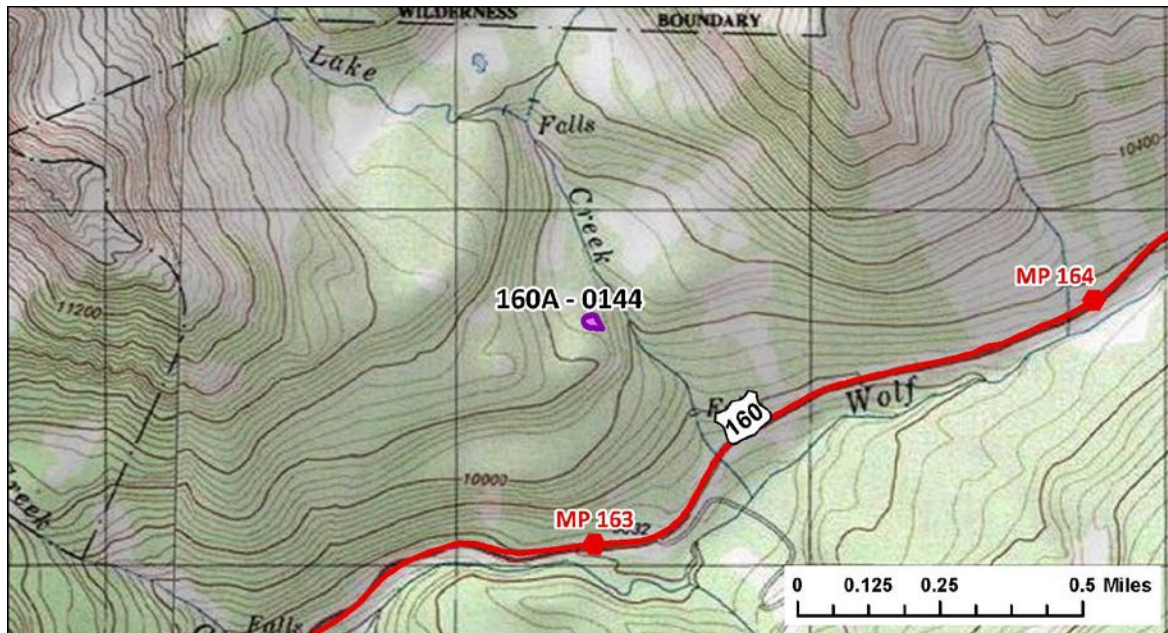
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,157 ft

Size: 0.33 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Not surveyed, far from road. Polygon is a confirmed fen from previous survey (Chimner, R.A, J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 160A - 0147

Nearest Milepoint: US 160, MP 167

Location: Wolf Creek Pass

Surveyed Date: 8/12/2016

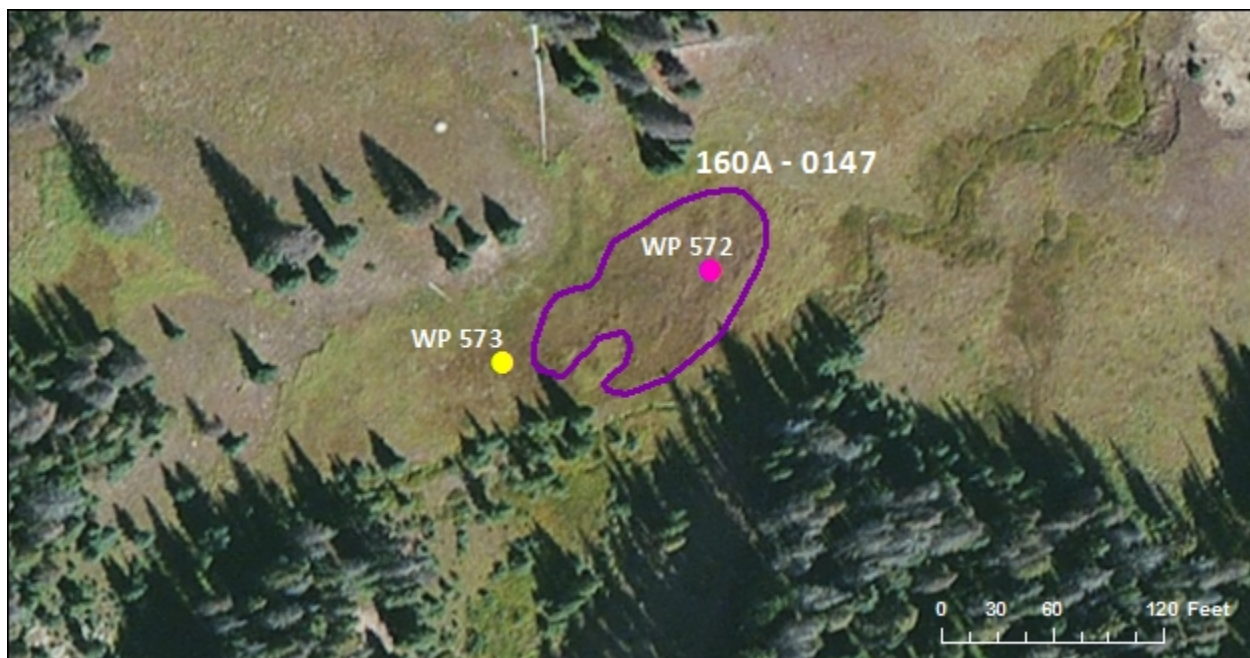
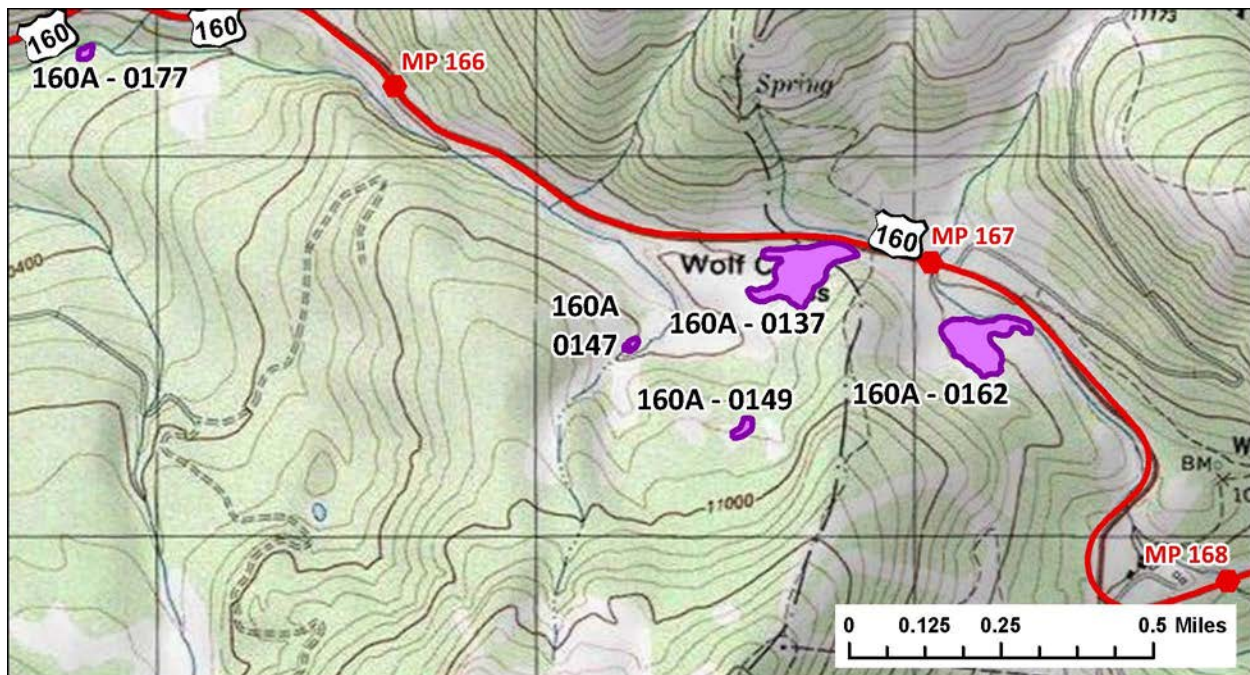
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,820 ft

Size: 0.18 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Small fen at base of slope.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
ELQU2	<i>Eleocharis quinqueflora</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
PNPA	<i>Pneumonanthe parryi</i>	4	3.5
VIOLA	<i>Viola</i>	4	3.5
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
CASTI2	<i>Castilleja</i>	1	0.1

Fen Polygon: 160A - 0149

Nearest Milepoint: US 160, MP 167

Location: Near Wolf Creek Pass

Surveyed Date: N/A

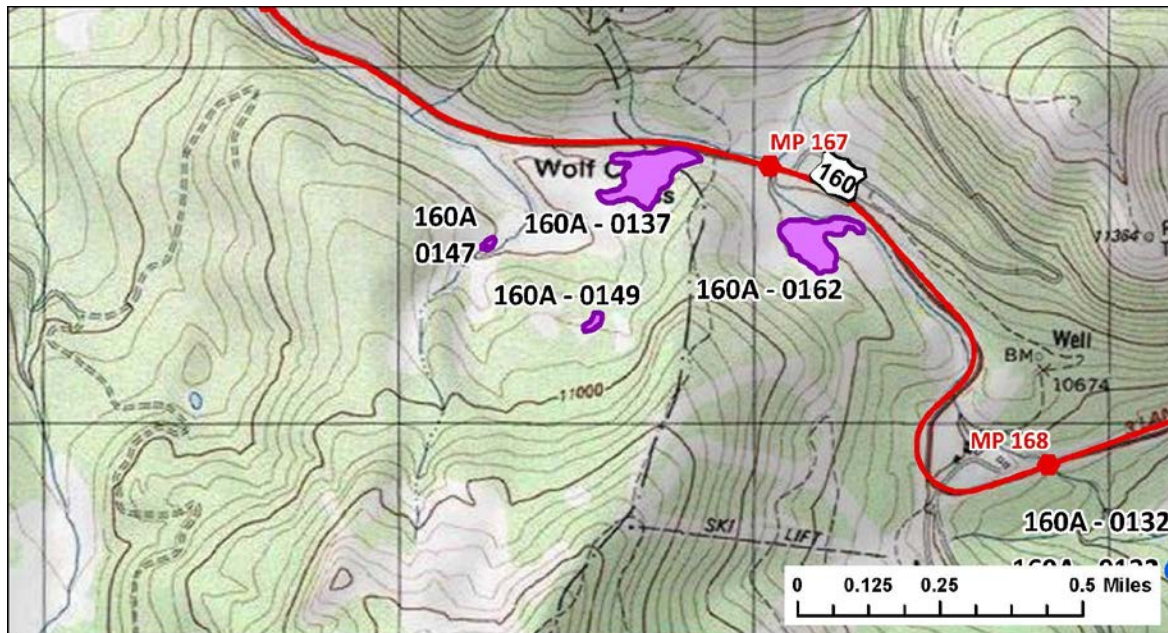
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,915 ft

Size: 0.38 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Not surveyed. Far from road. Area is a confirmed fen from previous survey (Chimner, R.A, J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 160A - 0162

Nearest Milepoint: US 160, MP 167

Location: Wolf Creek Pass

Surveyed Date: 8/12/2016

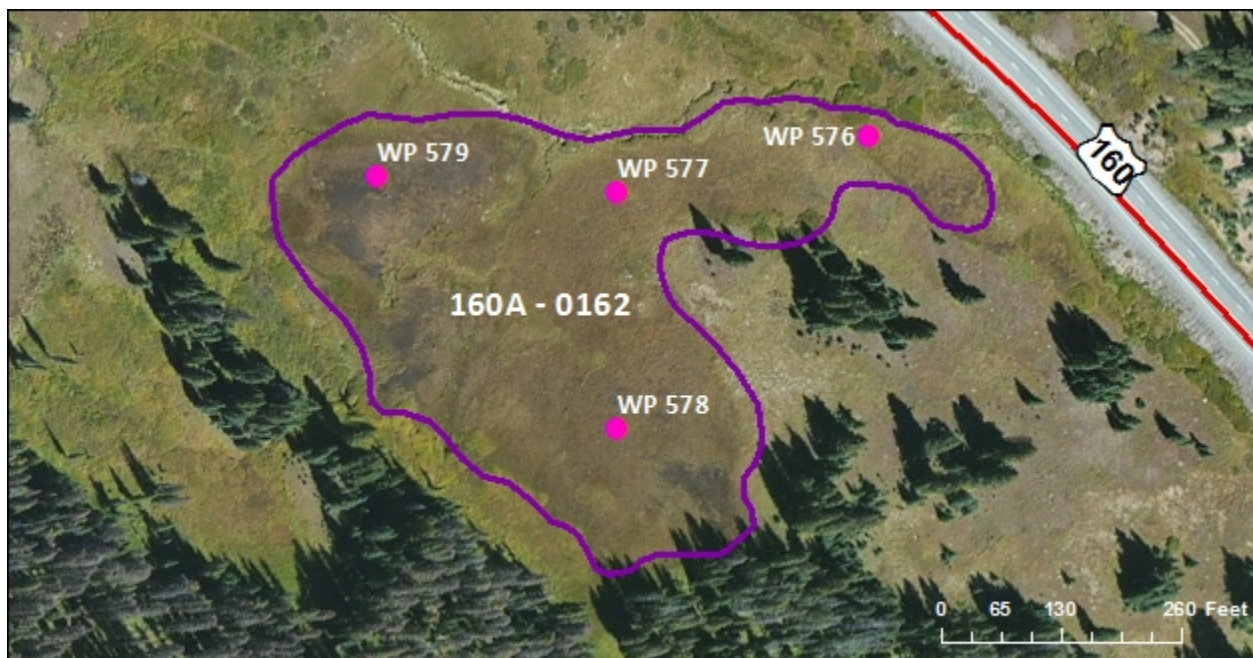
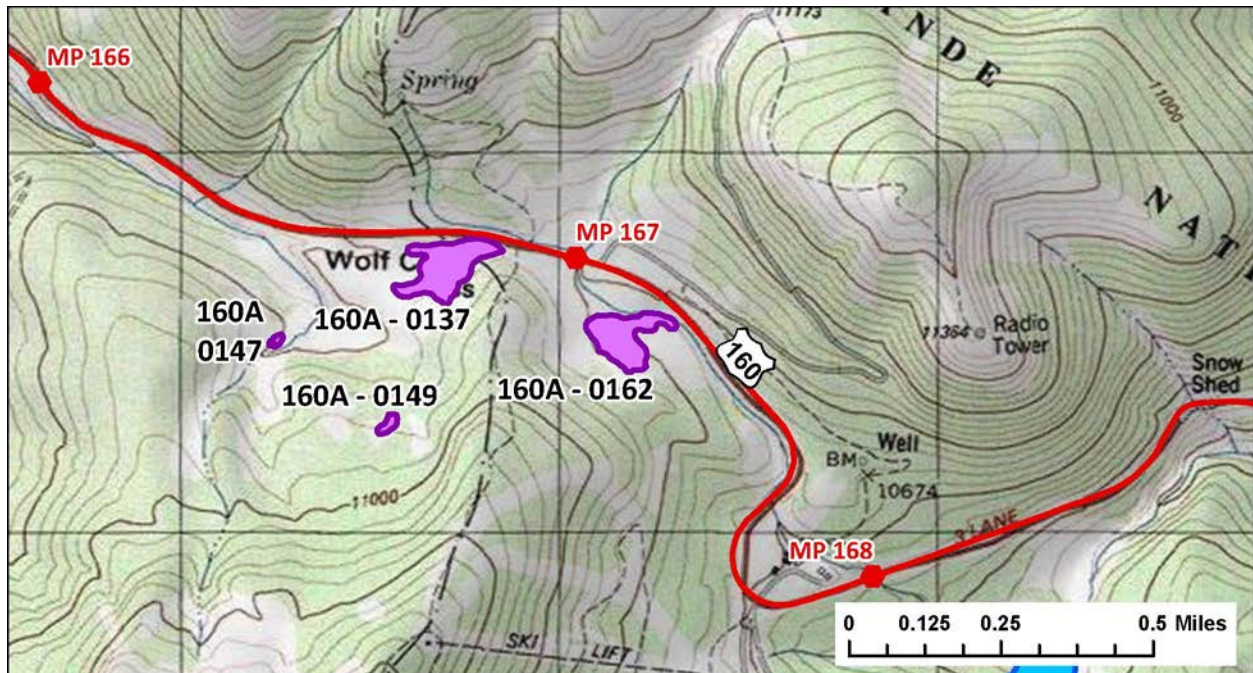
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,794 ft

Size: 4.76 acres

ROW Status: Public Easement

Primary Landowner: Rio Grande National Forest



Description: Large, gently sloping wetland. *Picea* on edges, channel running throughout complex near road. Some signs of elk use.

Site Photo



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
ELQU2	<i>Eleocharis quinqueflora</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CAREX	<i>Carex</i>	4	3.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PNPA	<i>Pneumonanthe parryi</i>	4	3.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
CAUT	<i>Carex utriculata</i>	3	1.5

Species Code	Scientific Name	Cover Class	Cover Midpoint
VEAM2	<i>Veronica americana</i>	3	1.5
VIOLA	<i>Viola</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
HESPM	<i>Heracleum sphondylium ssp. montanum</i>	1	0.1
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1
PHLEU	<i>Phleum</i>	1	0.1
SECR	<i>Senecio crassulus</i>	1	0.1

Fen Polygon: 160A - 0176

Nearest Milepoint: US 160, MP 165

Location: Near National Forest Service Road 725 and Wolf Creek

Surveyed Date: 8/12/2016

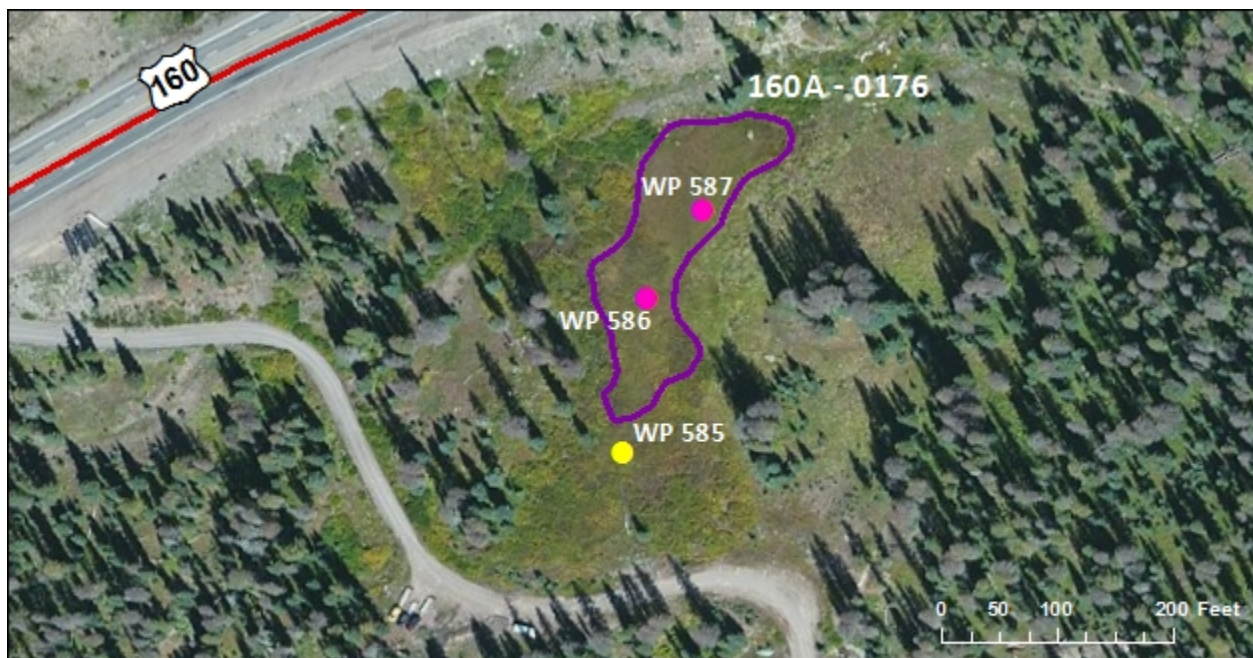
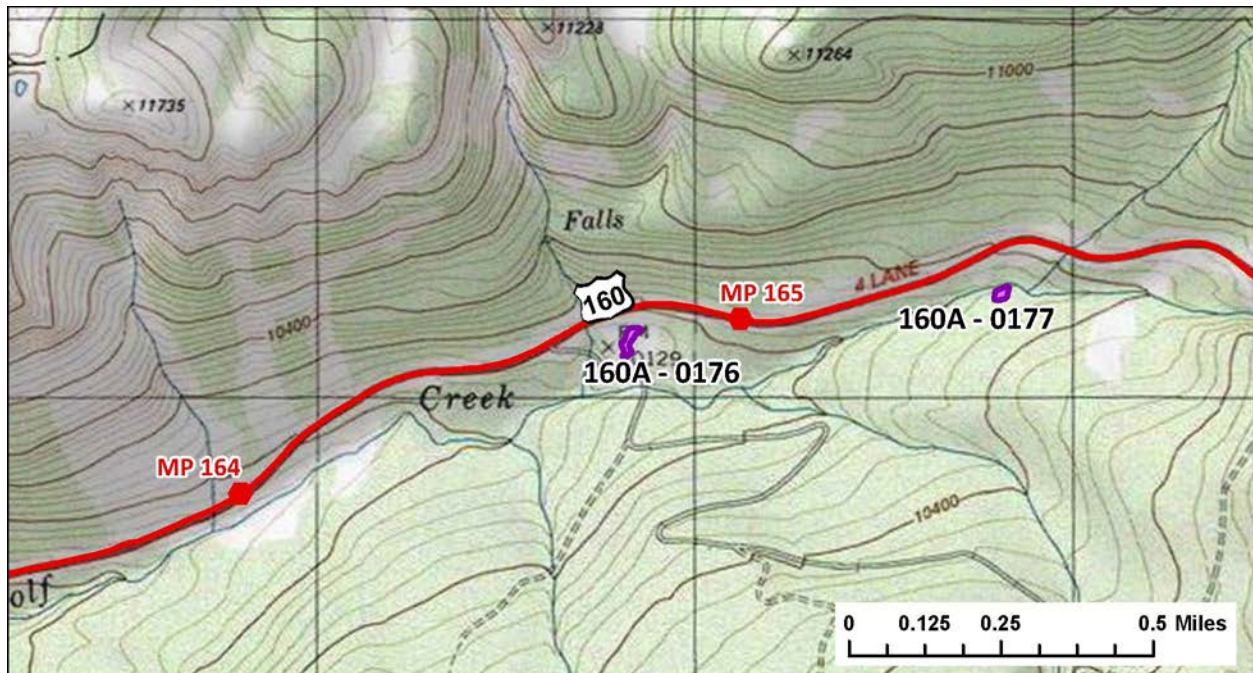
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,161 ft

Size: 0.45 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Small fen, dominated by *Carex* species. *Salix* on edges, with standing water on site.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	7	37.5
CAUT	<i>Carex utriculata</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CAAN23	<i>Carex angustior</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
CASC12	<i>Carex scopulorum</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
ERAN6	<i>Eriophorum angustifolium</i>	3	1.5
VETE4	<i>Veratrum tenuipetalum</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1

Fen Polygon: 160A - 0177

Nearest Milepoint: US 160, MP 165

Location: Adjacent to Wolf Creek

Surveyed Date: 8/12/2016

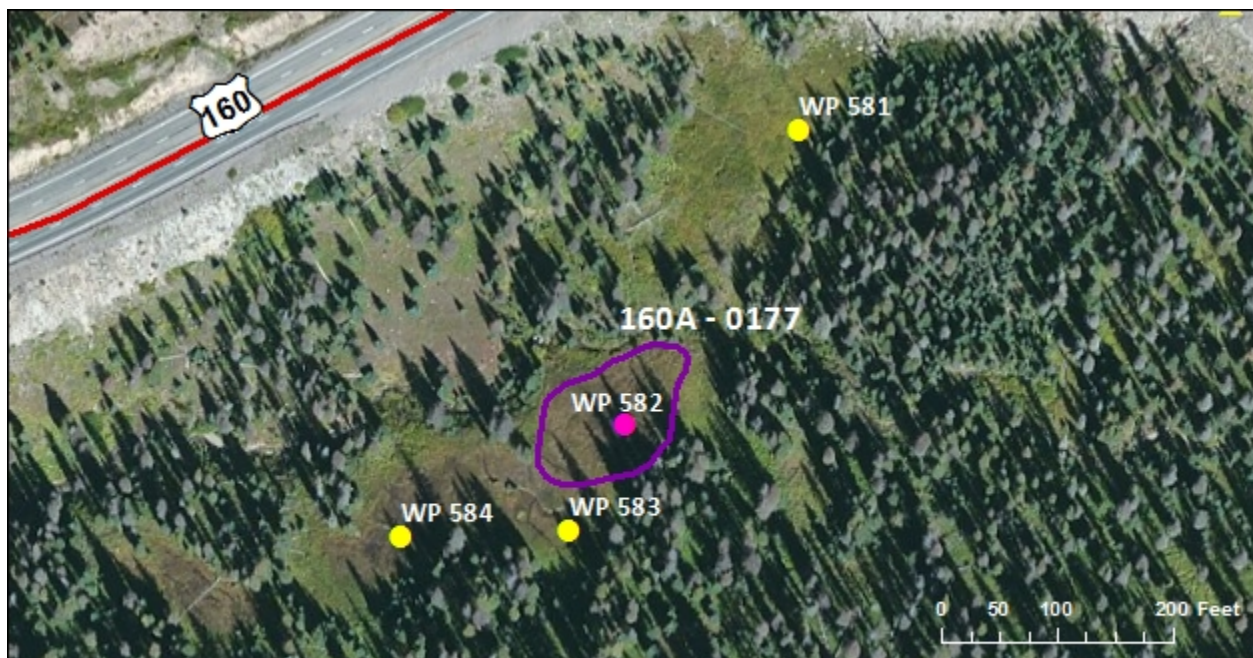
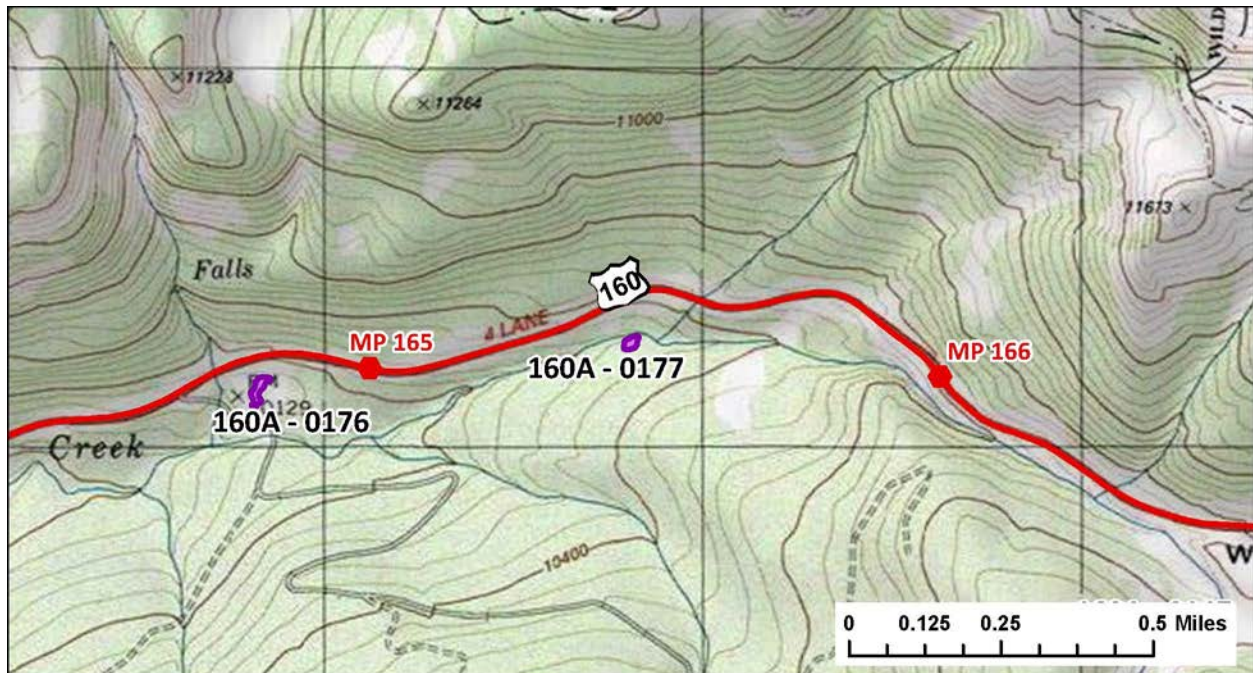
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,331 ft

Size: 0.25 acres

ROW Status: Public Easement

Primary Landowner: San Juan National Forest



Description: Fen located at base of slope near creek. Dominated by *Carex* species.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
ELQU2	<i>Eleocharis quinqueflora</i>	7	37.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CAAN23	<i>Carex angustior</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
PNPA	<i>Pneumonanthe parryi</i>	4	3.5
VETE4	<i>Veratrum tenuipetalum</i>	4	3.5
ERAN6	<i>Eriophorum angustifolium</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
CAST12	<i>Castilleja</i>	1	0.1
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 285D - 3043

Nearest Milepoint: US 285, MP 180

Location: Along Fourmile Creek

Surveyed Date: N/A

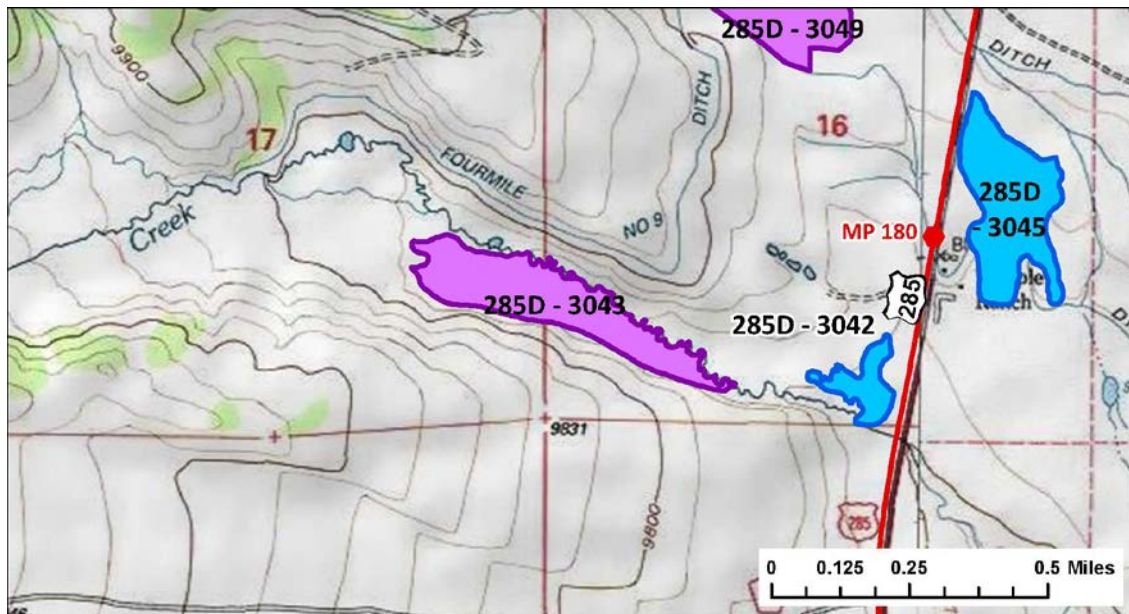
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,731 ft

Size: 30.36 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Colorado Open Lands and Colorado State Land Board



Description: Not surveyed. Area is a known fen from previous survey (Johnson & Gerhardt 2002).

Fen Polygon: 285D - 3045

Nearest Milepoint: US 285, MP 180

Location: South of Fairplay, Colorado

Surveyed Date: 6/7/2017

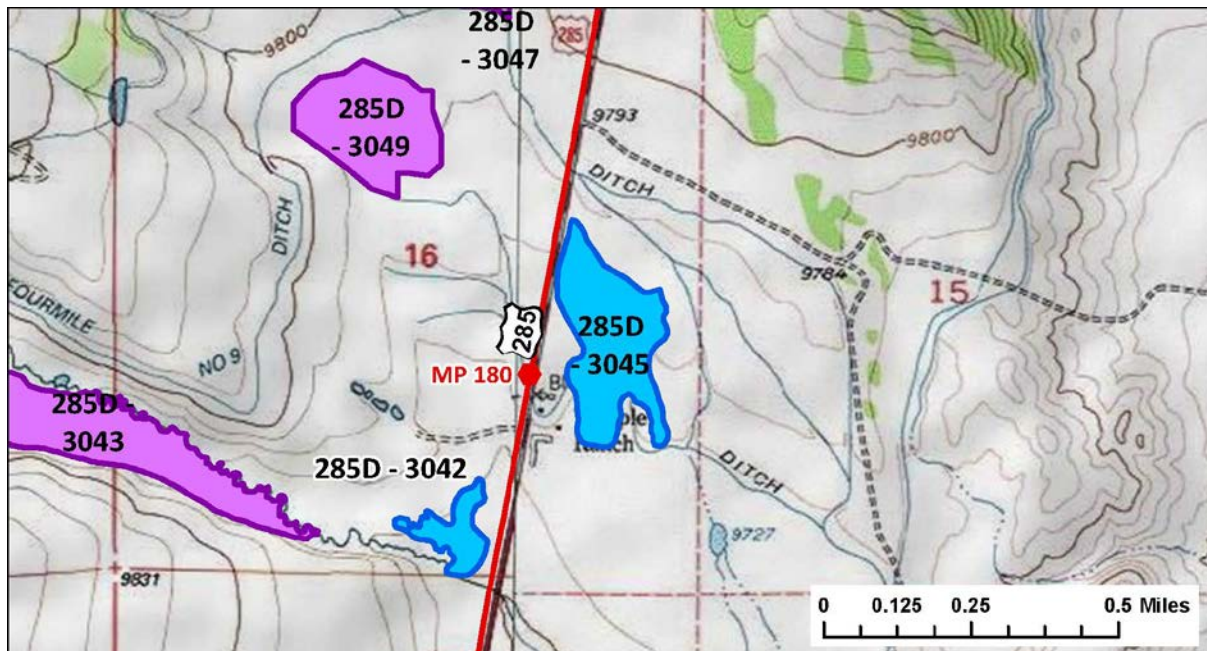
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,741 ft

Size: 27.20 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Colorado Open Lands



Description: Private property. Core in ROW has 30 cm organic material. High likelihood that there is 40 cm of peat elsewhere in the polygon. Area is a likely fen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	6	17.5

Fen Polygon: 285D - 3047

Nearest Milepoint: US 285, MP 181

Location: South of Fairplay, Colorado

Surveyed Date: N/A

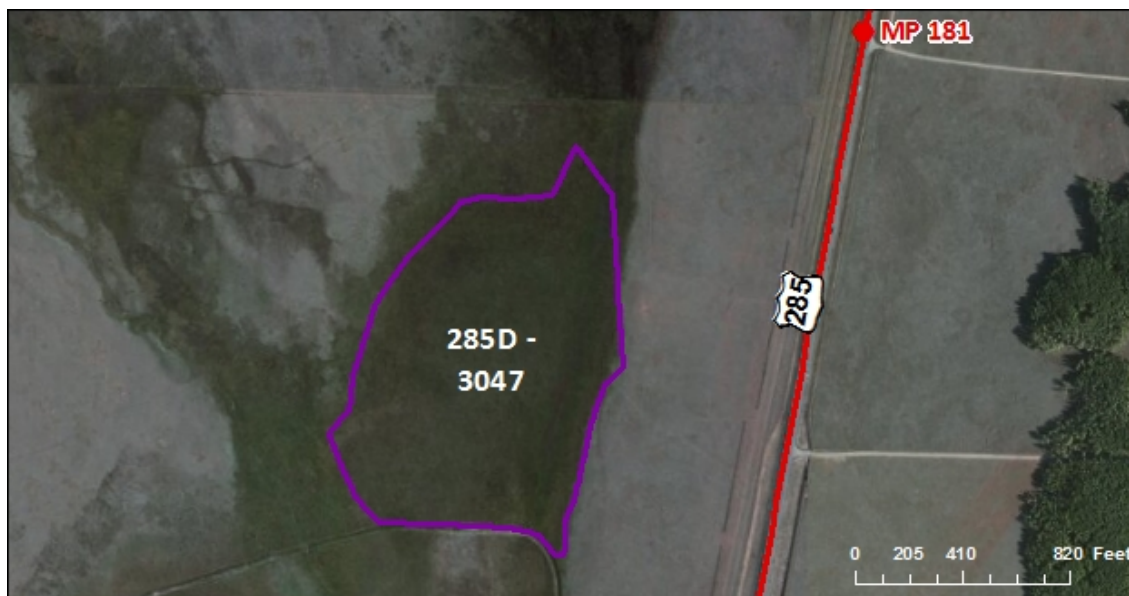
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,816 ft

Size: 26.07 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Colorado Open Lands



Description: Not surveyed. Area is a known fen from previous survey (Johnson & Gerhardt 2002).

Fen Polygon: 285D - 3049

Nearest Milepoint: US 285, MP 180

Location: South of Fairplay, Colorado

Surveyed Date: N/A

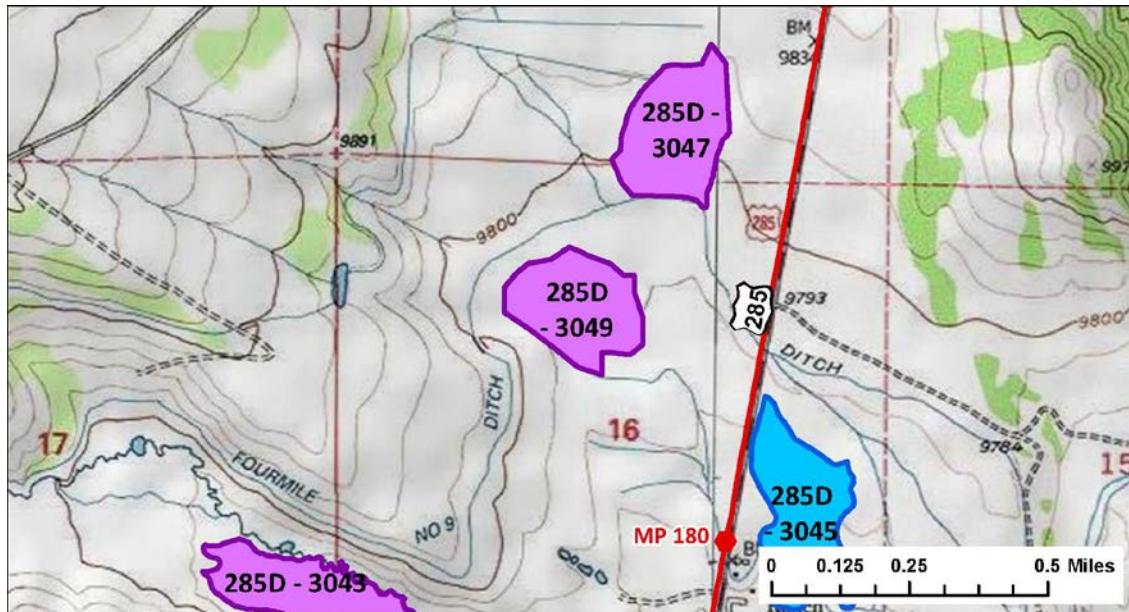
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,767 ft

Size: 24.11 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Colorado Open Lands



Description: Polygon not surveyed. Fen confirmed by previous survey (Johnson & Gerhardt 2002). Fen is part of a larger wetland complex that intersects the ROW.

Fen Polygon: 285D - 3052

Nearest Milepoint: US 285, MP 174

Location: High Creek Fen

Surveyed Date: 6/7/2017

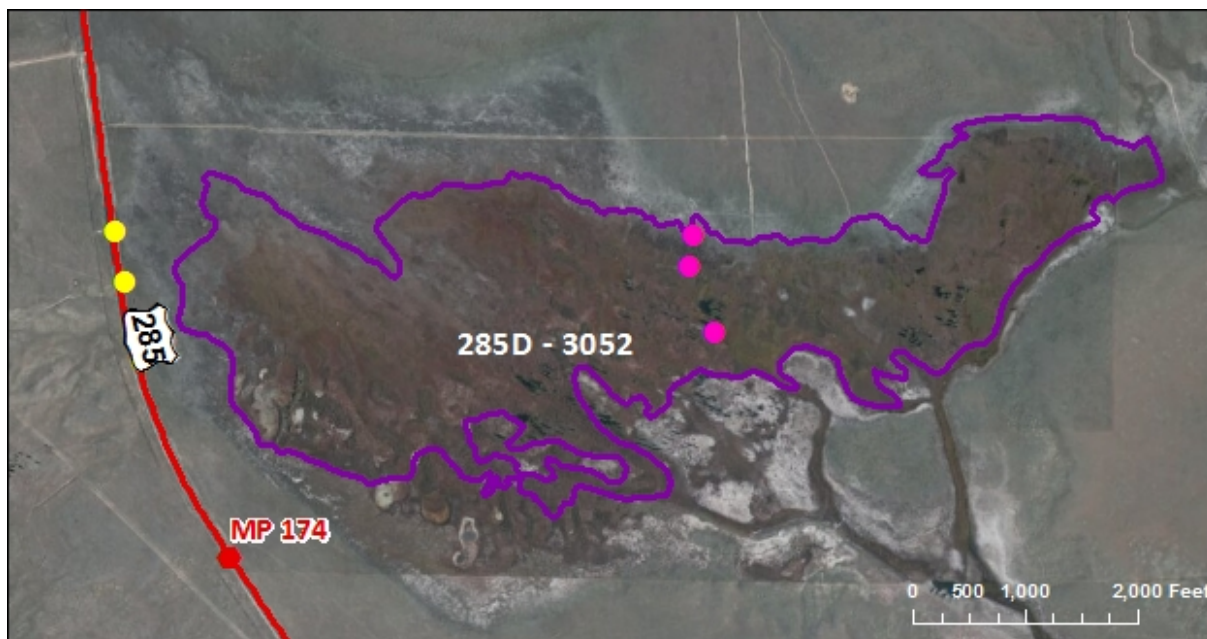
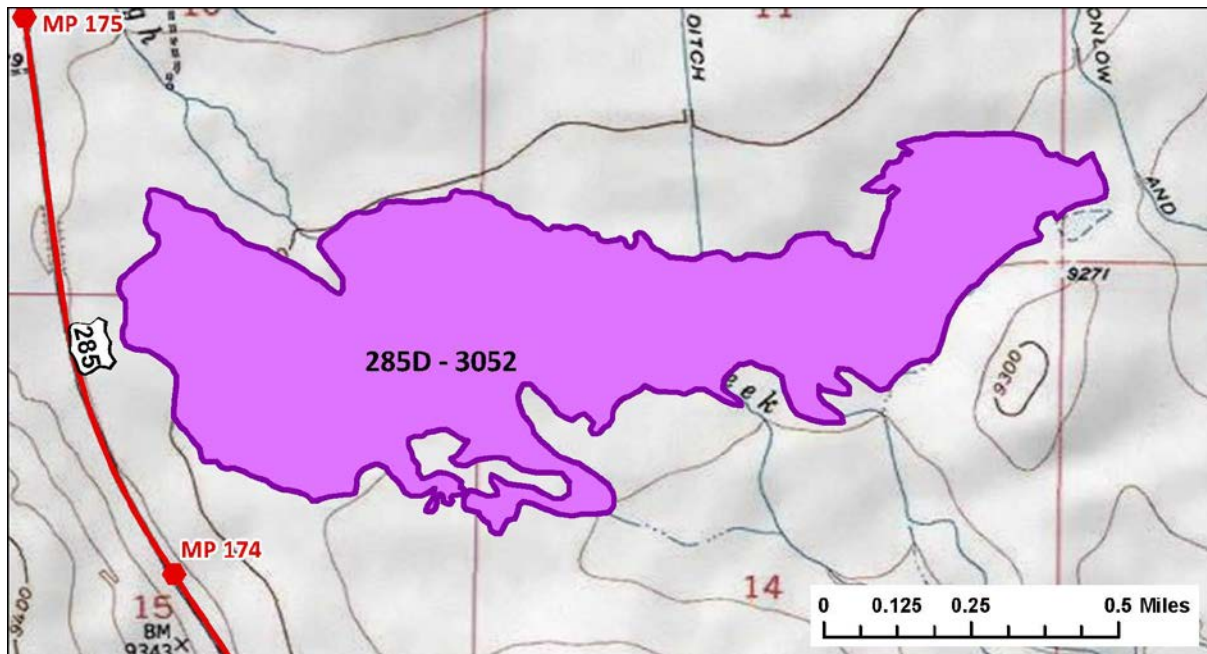
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,278 ft

Size: 336.74 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: The Nature Conservancy (Land Trust)



Description: High Creek Fen. Confirmed by many previous surveys. No evidence of wetland connection between fen and highway ROW.

Site Photos



Fen Polygon: 285D - 3059

Nearest Milepoint: US 285, MP 172

Location: Along the South Fork South Platte, east of Rogers Ranch

Surveyed Date: 6/7/2017

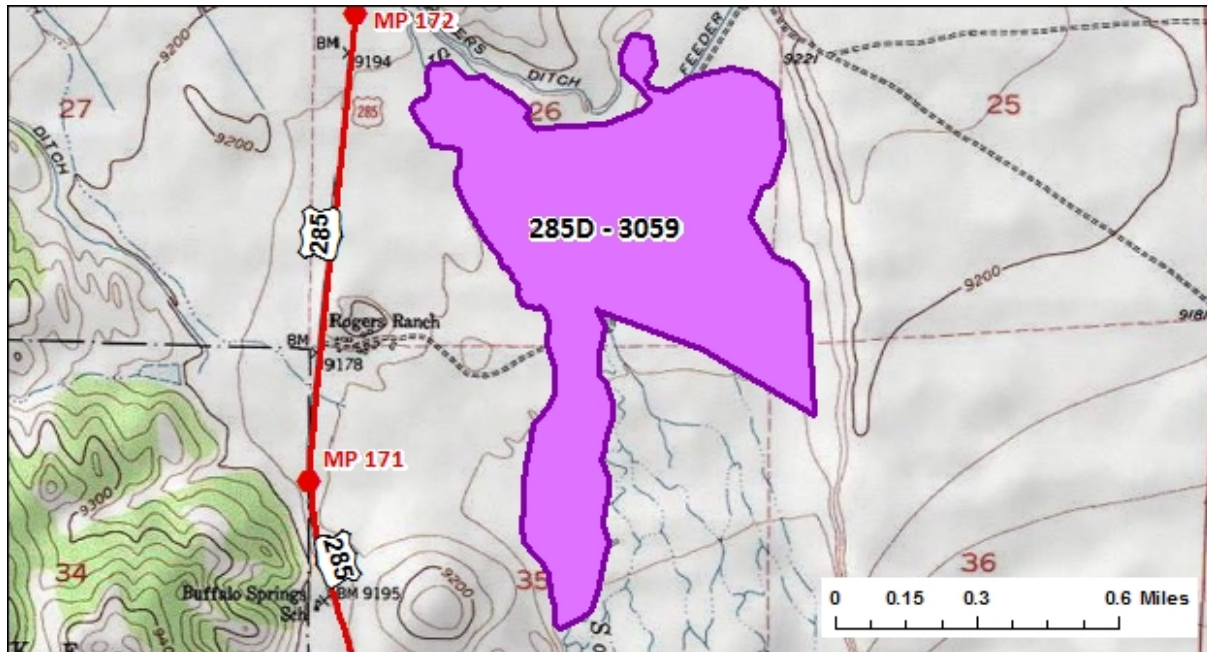
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,154 ft

Size: 282.17 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Viewed from dirt road. Known fen from previous survey (Johnson & Gerhardt 2002).

Site Photo



Fen Polygon: 285D - 3071

Nearest Milepoint: US 285, MP 168

Location: NE of Antero Reservoir, along the South Fort South Platte

Surveyed Date: 6/7/2017

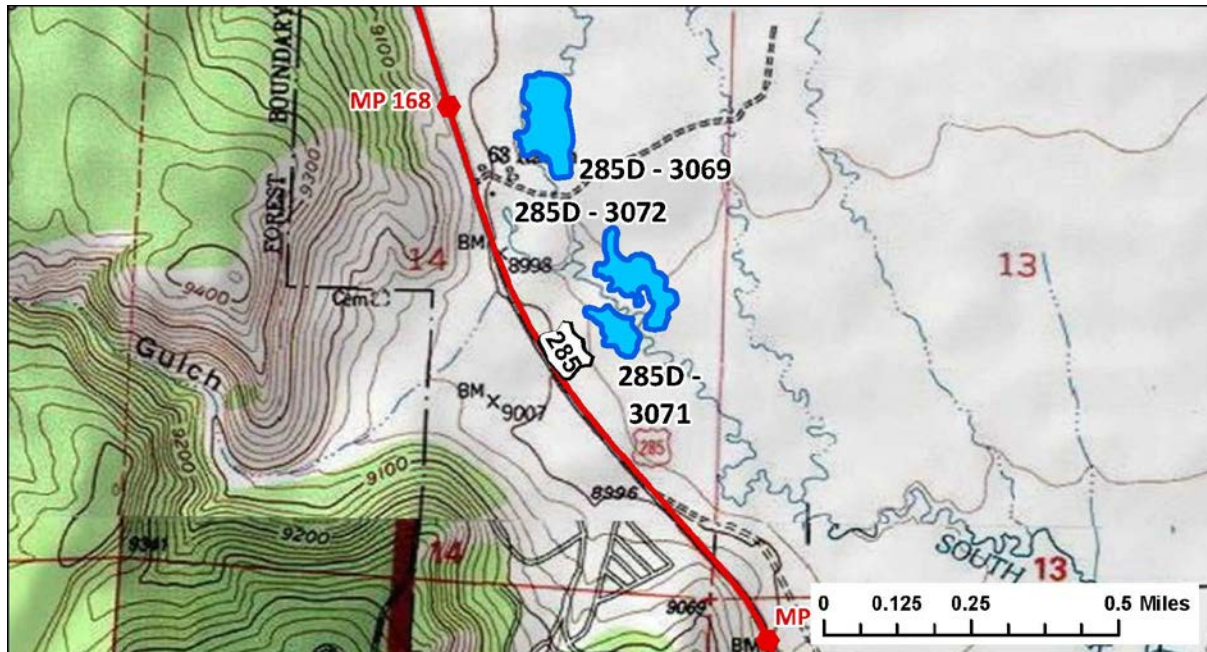
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 8,983 ft

Size: 2.66 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: 63 Ranch, State Wildlife Area



Description: Very likely a potential fen; unable to take full soil profile due to land ownership. Site visited early in season. Most species not in flower. May be worth a more substantial survey.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
CAUT	<i>Carex utriculata</i>	6	17.5
TRMA20	<i>Triglochin maritima</i>	6	17.5
AGROS2	<i>Agrostis</i>	4	3.5
CALA30	<i>Carex lanuginosa</i>	4	3.5
CASI2	<i>Carex simulata</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. Ater</i>	4	3.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
CHAQ	<i>Chondrophylla aquatica</i>	1	0.1
PREG	<i>Primula egaliksensis</i>	1	0.1

Fen Polygon: 285D - 3434

Nearest Milepoint: US 285, MP 204

Location: Kenosha Pass

Surveyed Date: 6/15/2017

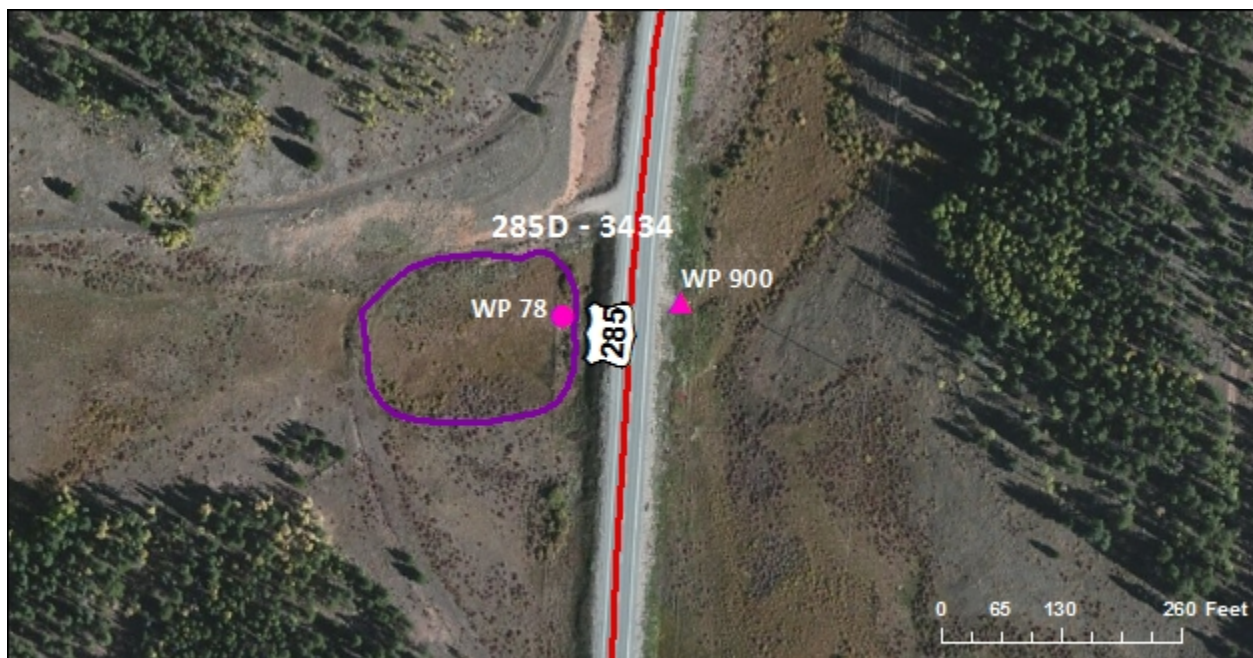
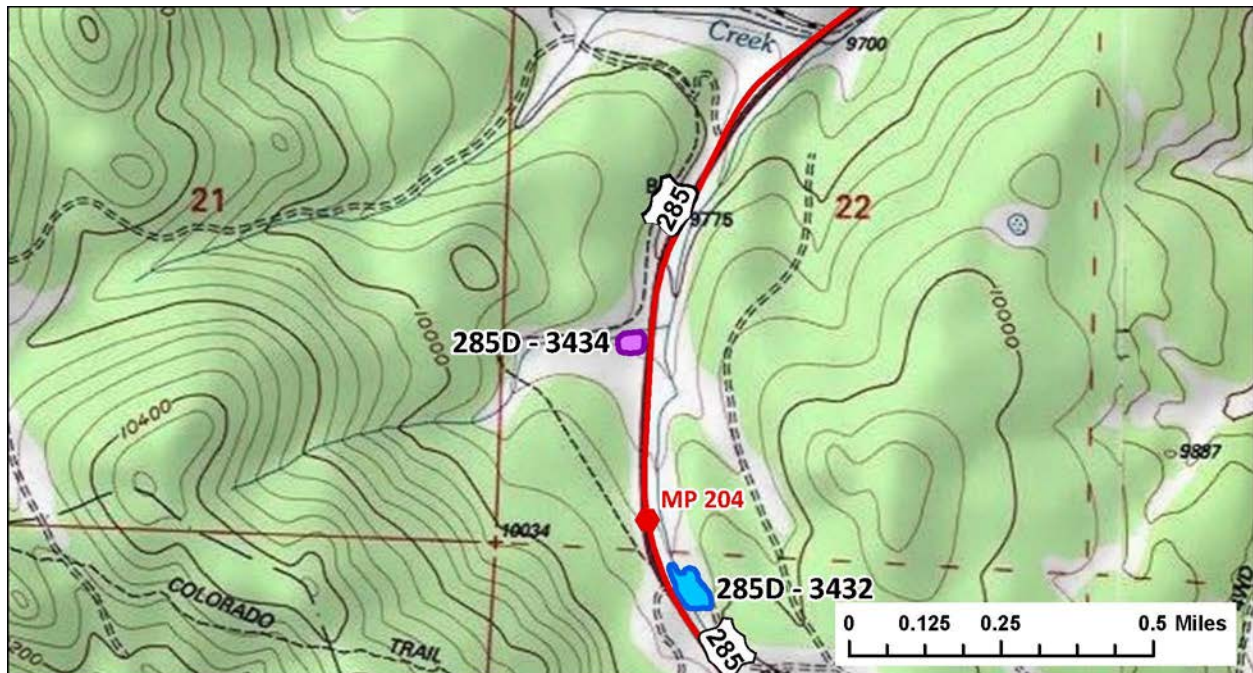
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 9,833 ft

Size: 0.84 acres

ROW Status: Public Easement

Primary Landowners: Pike National Forest



Description: *Salix planifolia* and *Carex aquatilis* dominated. Deep peat layer.

Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CASI2	<i>Carex simulata</i>	6	17.5
CAST36	<i>Calamagrostis stricta</i>	4	3.5
CAUT	<i>Carex utriculata</i>	4	3.5
CLRH2	<i>Clementsia rhodantha</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
PESC9	<i>Pedicularis scopulorum</i>	2	0.5
POLEM	<i>Polemonium</i>	2	0.5
THAL	<i>Thalictrum alpinum</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	1	0.1
JUNCU	<i>Juncus</i>	1	0.1

Fen Polygon: 285D - 3744

Nearest Milepoint: US 285, MP 198

Location: Kenosha Pass

Surveyed Date: N/A

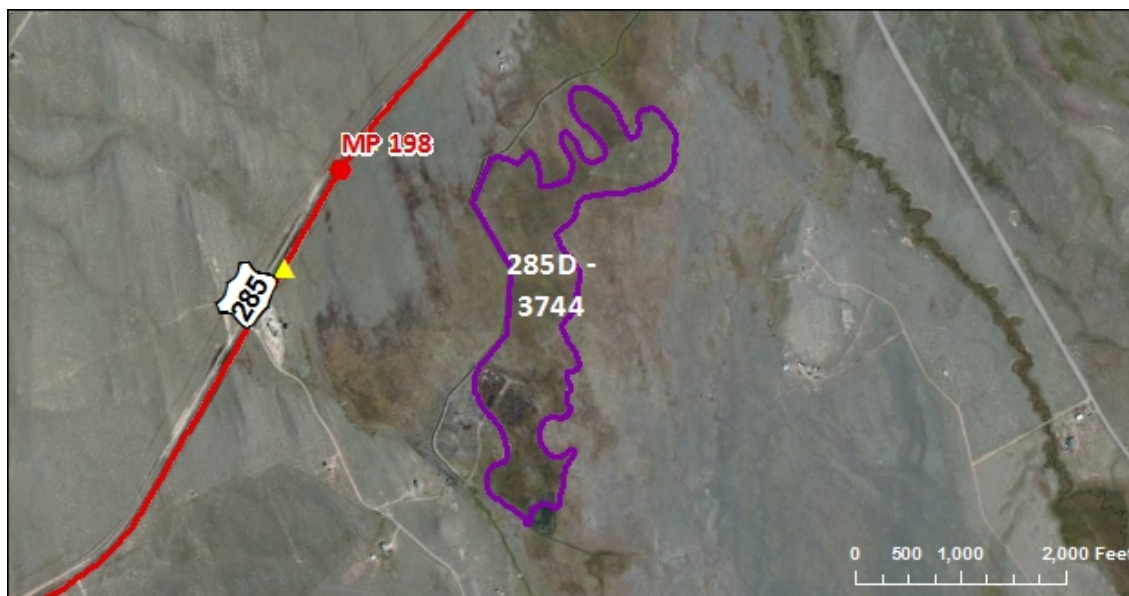
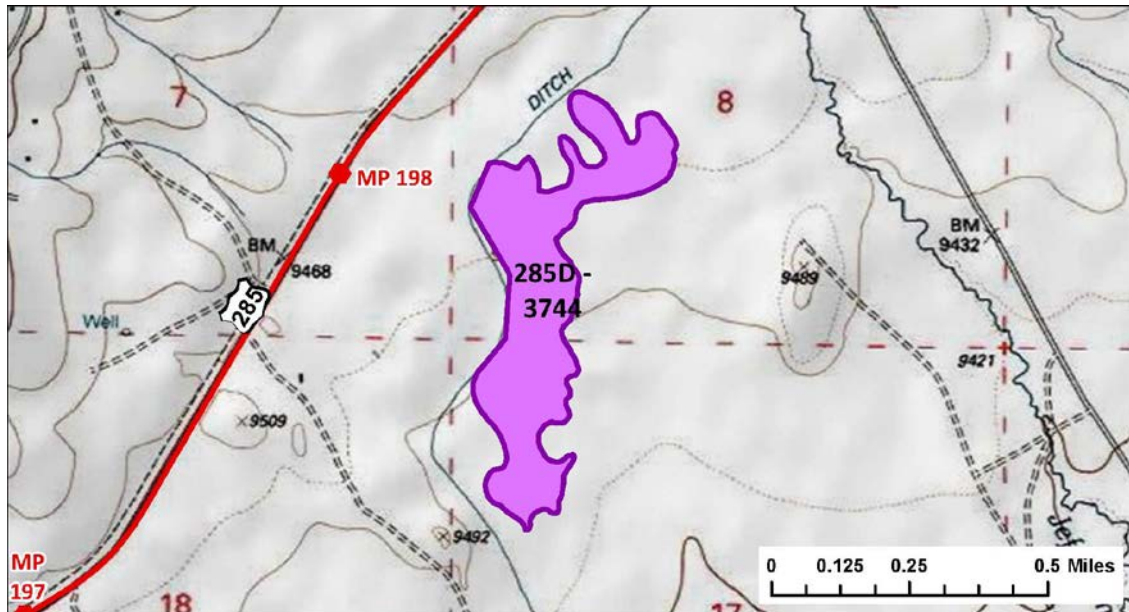
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,459 ft

Size: 68.82 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Polygon is a known fen from previous survey (Johnson & Gerhardt 2002). No contiguous wetland between confirmed fen and highway ROW.

Fen Polygon: 550B - 0338

Nearest Milepoint: US 550, MP 50

Location: West of US Route 550

Surveyed Date: N/A

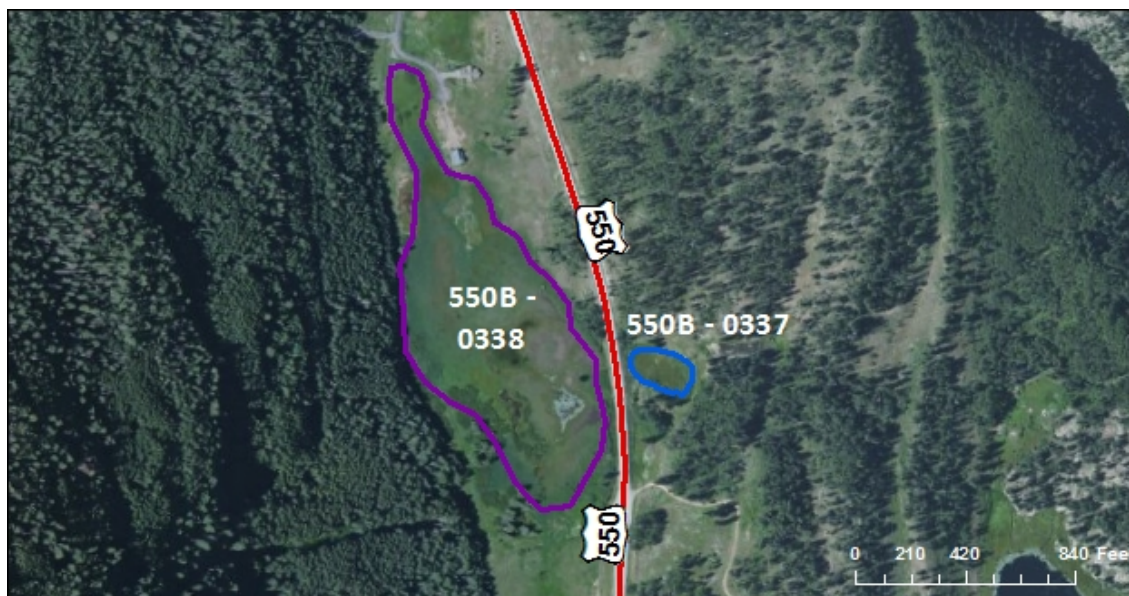
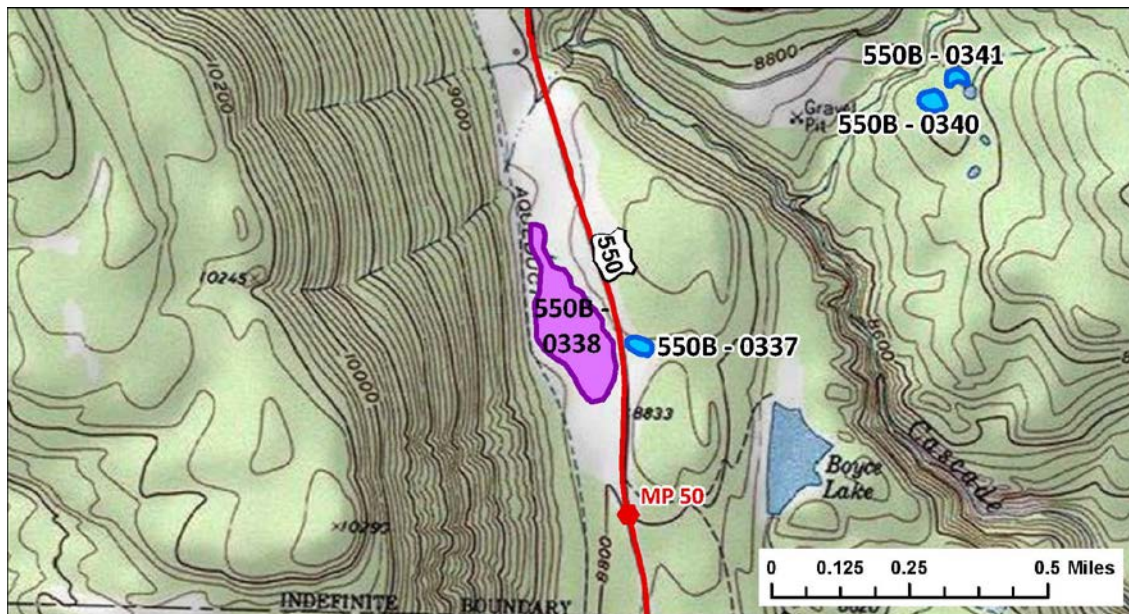
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 8,832 ft

Size: 14.73 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Confirmed fen from previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0342

Nearest Milepoint: US 550, MP 52

Location: West of U.S. Route 550

Surveyed Date: 8/29/2016

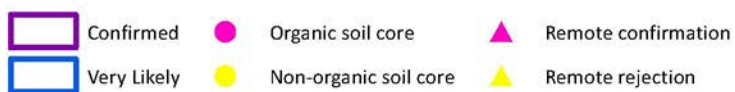
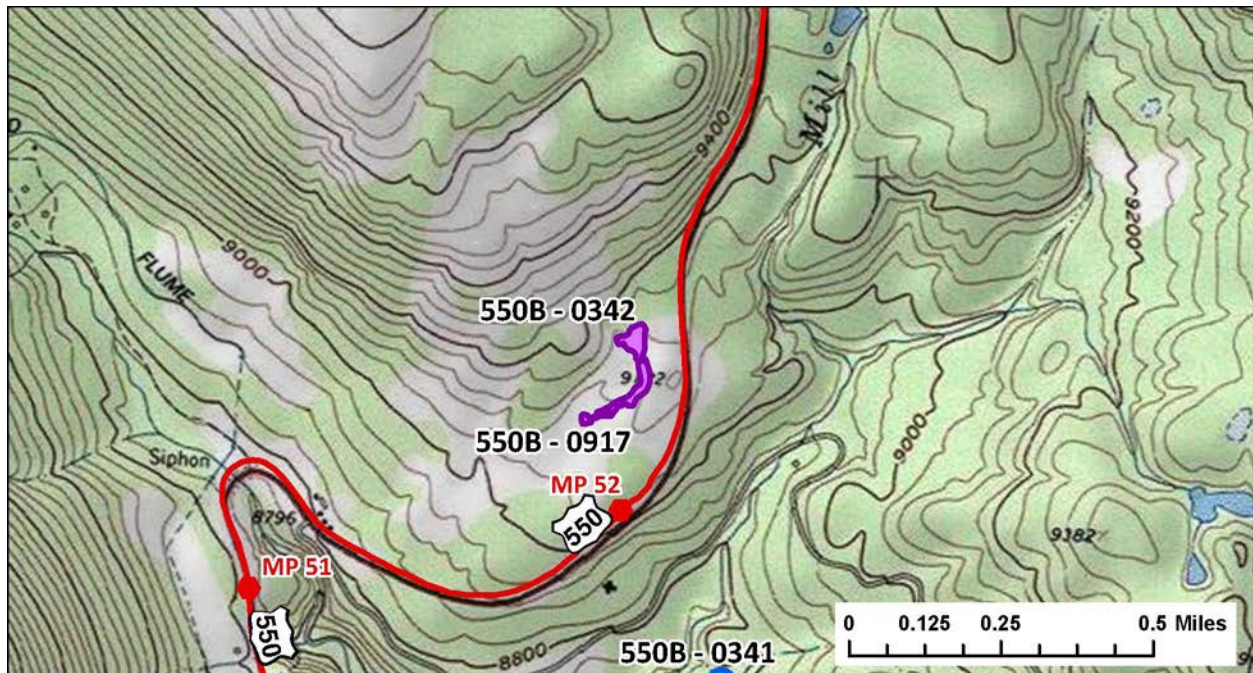
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,117 ft

Size: 1.01 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Gently sloping fen, with some aspen on edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
ERIGE2	<i>Erigeron</i>	2	0.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	2	0.5
JUEN	<i>Juncus ensifolius</i>	2	0.5
JULO	<i>Juncus longistylis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
VENU2	<i>Veronica nutans</i>	2	0.5
LIMNOR	<i>Limnorchis</i>	1	0.1
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	1	0.1

Fen Polygon: 550B - 0361

Nearest Milepoint: US 550, MP 63

Location: Molas Pass

Surveyed Date: 8/29/2016

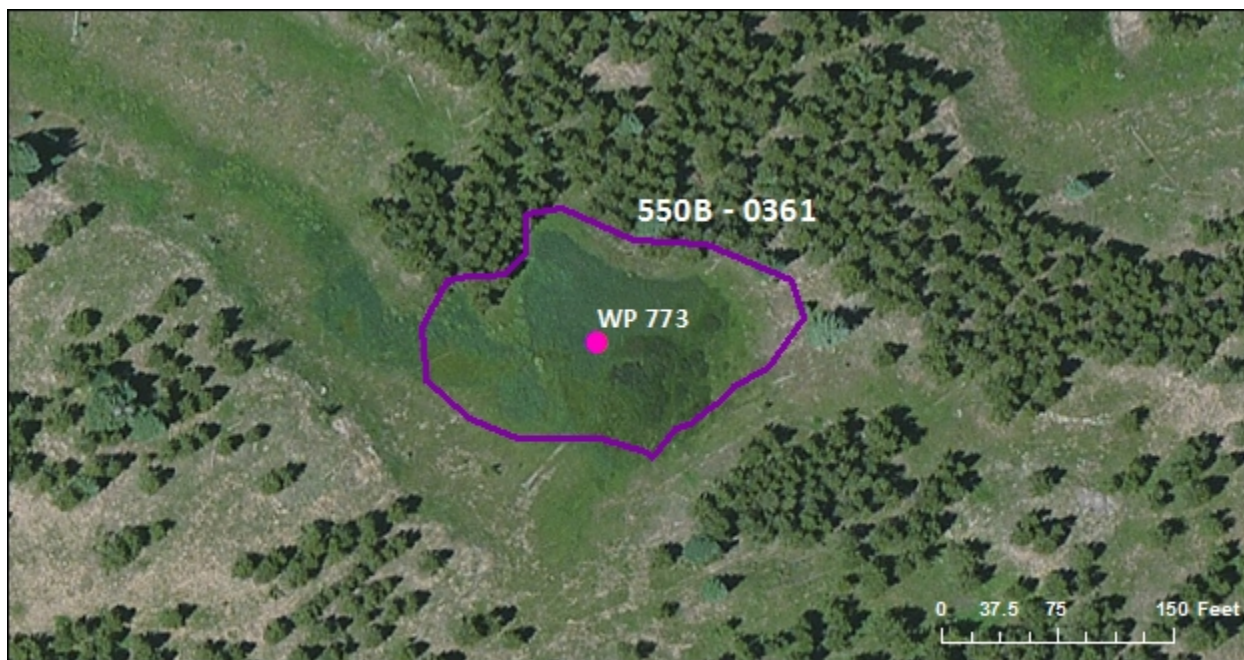
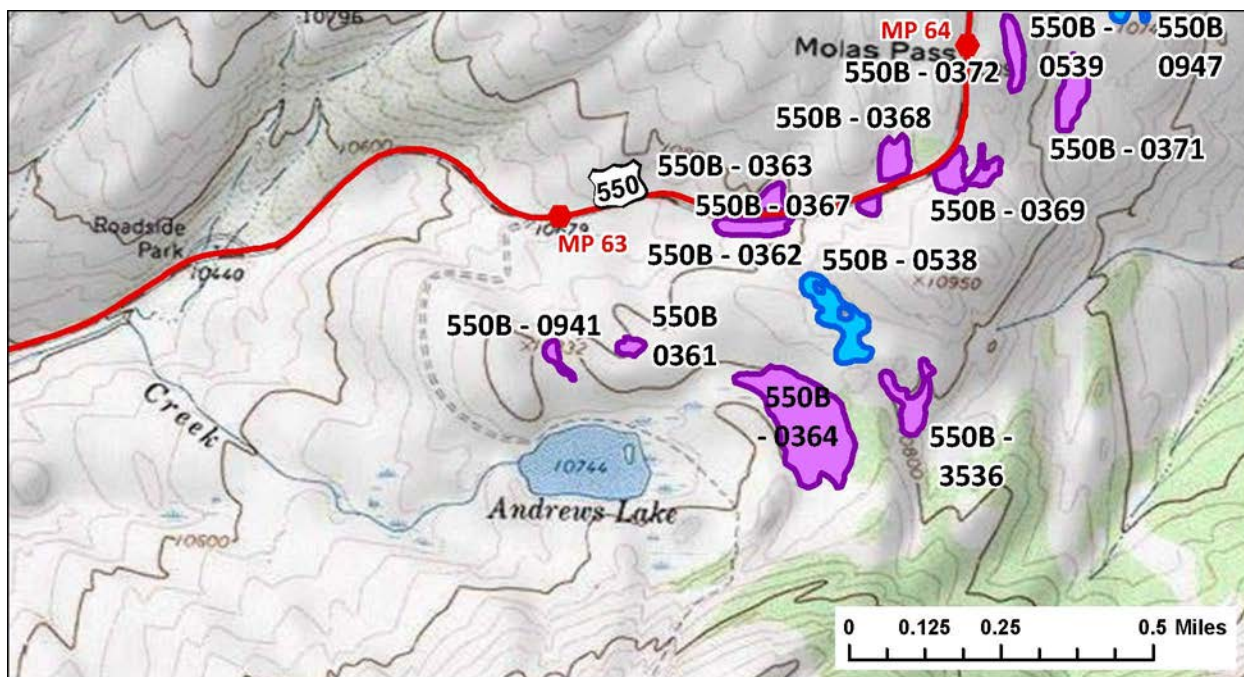
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,804 ft

Size: 0.61 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Gently sloping fen, mostly dominated by *Calamagrostis*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
CAIL	<i>Carex illota</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	3	1.5
ANTEN	<i>Antennaria</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
POTEN	<i>Potentilla</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
ROPA2	<i>Rorippa palustris</i>	1	0.1

Fen Polygon: 550B - 0362

Nearest Milepoint: US 550, MP 63

Location: Molas Pass

Surveyed Date: N/A

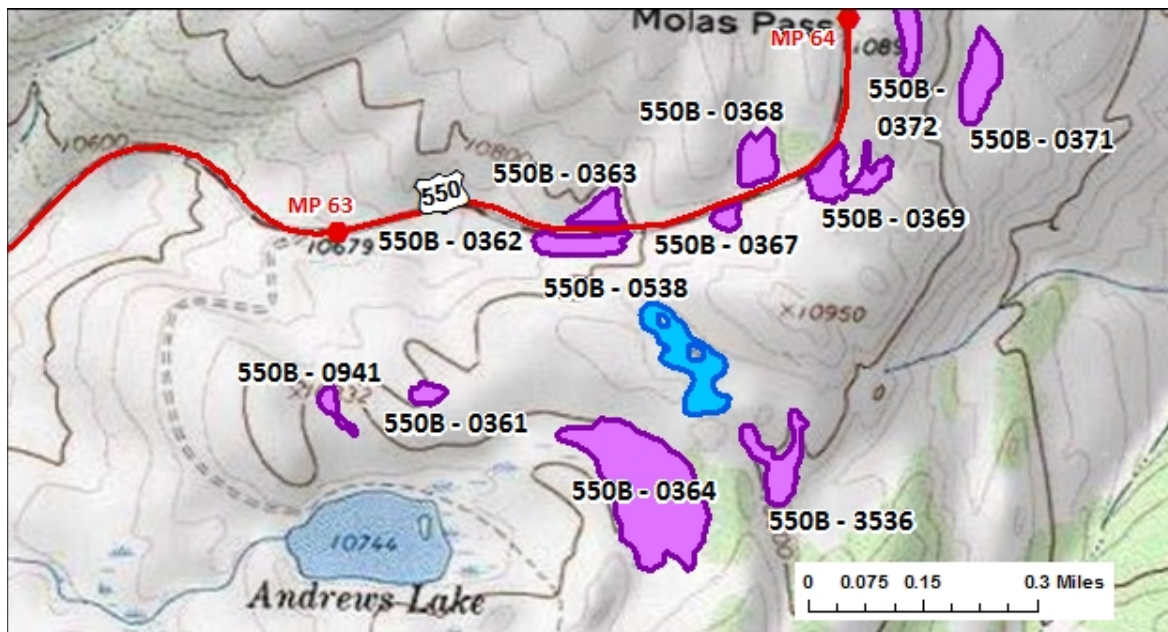
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,764 ft

Size: 1.90 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0363

Nearest Milepoint: US 550, MP 63

Location: Molas Pass

Surveyed Date: 8/29/2016

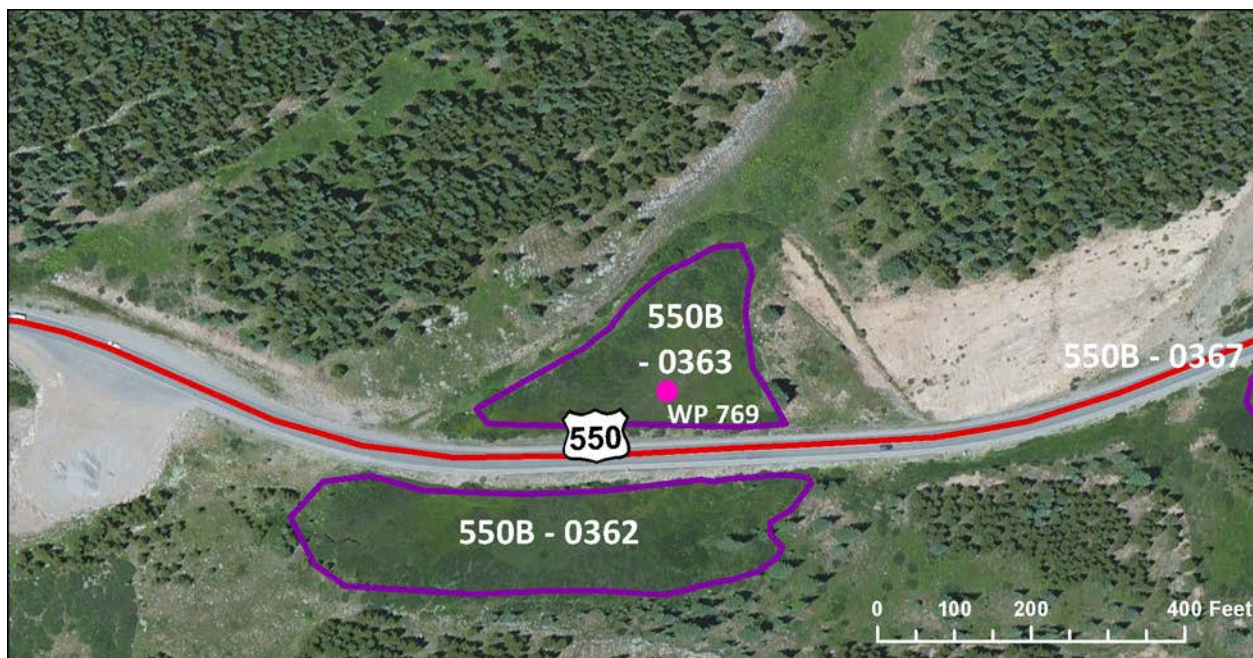
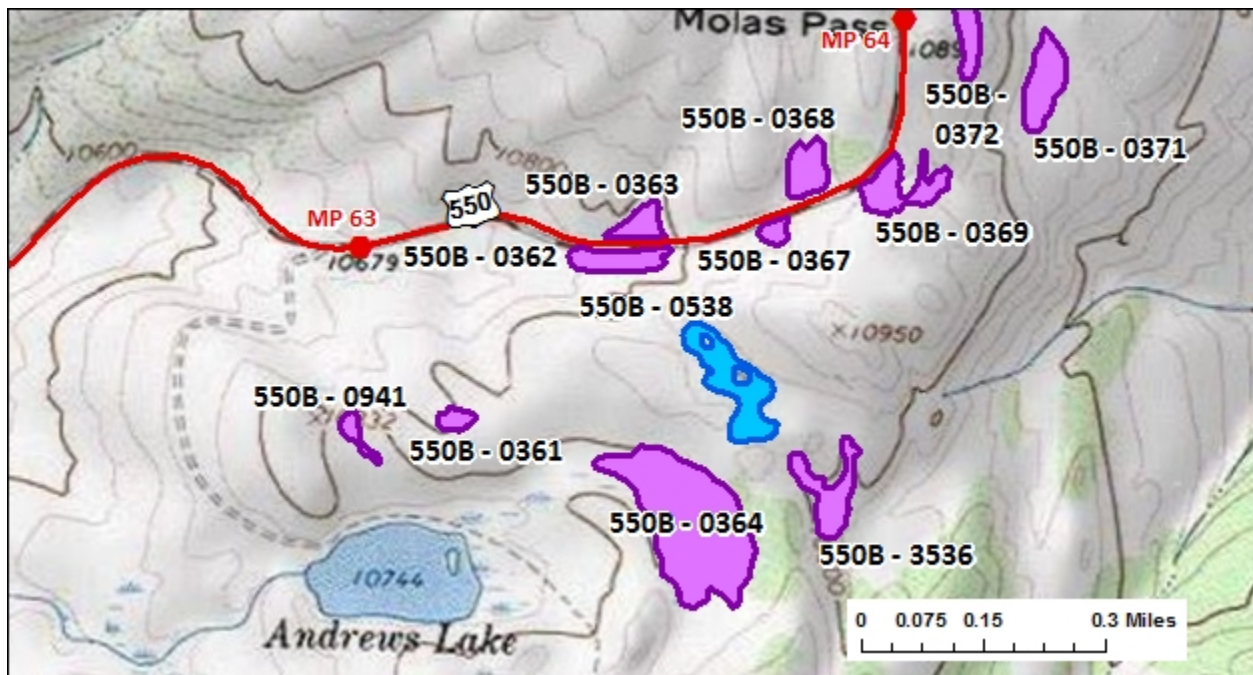
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,791 ft

Size: 1.16 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Depressional fen adjacent to road.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CABU6	<i>Carex buxbaumii</i>	7	37.5
PEFL15	<i>Pentaphylloides floribunda</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CAUT	<i>Carex utriculata</i>	4	3.5
ERAN6	<i>Eriophorum angustifolium</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
CANO3	<i>Carex nova</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
GATR3	<i>Galium triflorum</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	1	0.1

Fen Polygon: 550B - 0364

Nearest Milepoint: US 550, MP 63

Location: Near Andrews Lake

Surveyed Date: N/A

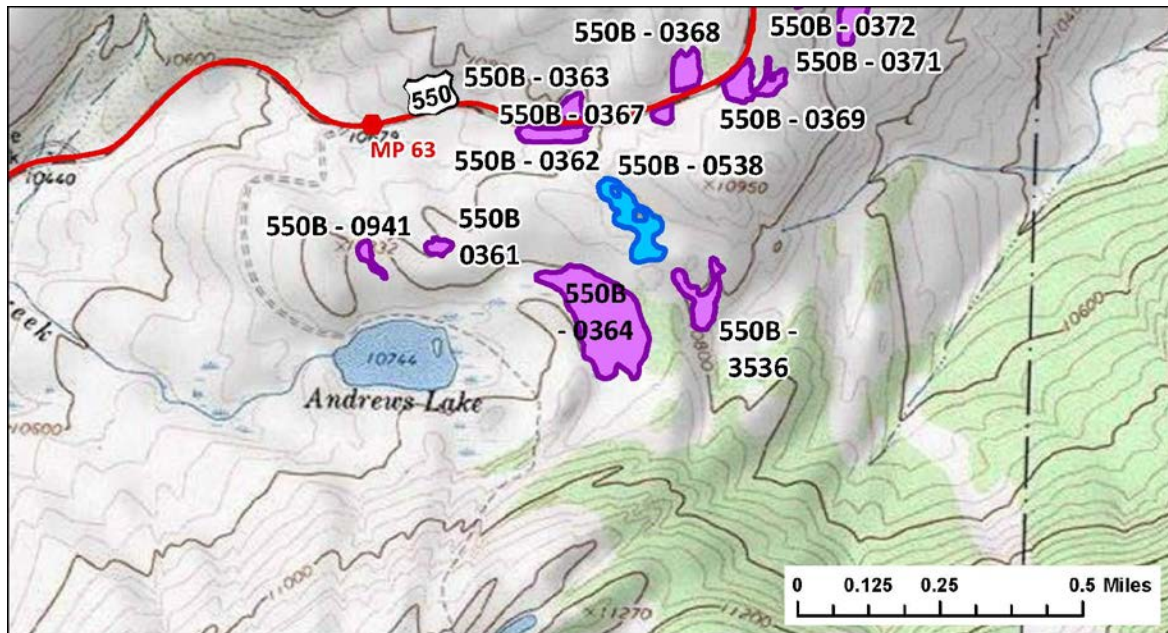
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,801 ft

Size: 12.94 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0365

Nearest Milepoint: US 550, MP 64

Location: Molas Pass, below Little Molas Lake

Surveyed Date: N/A

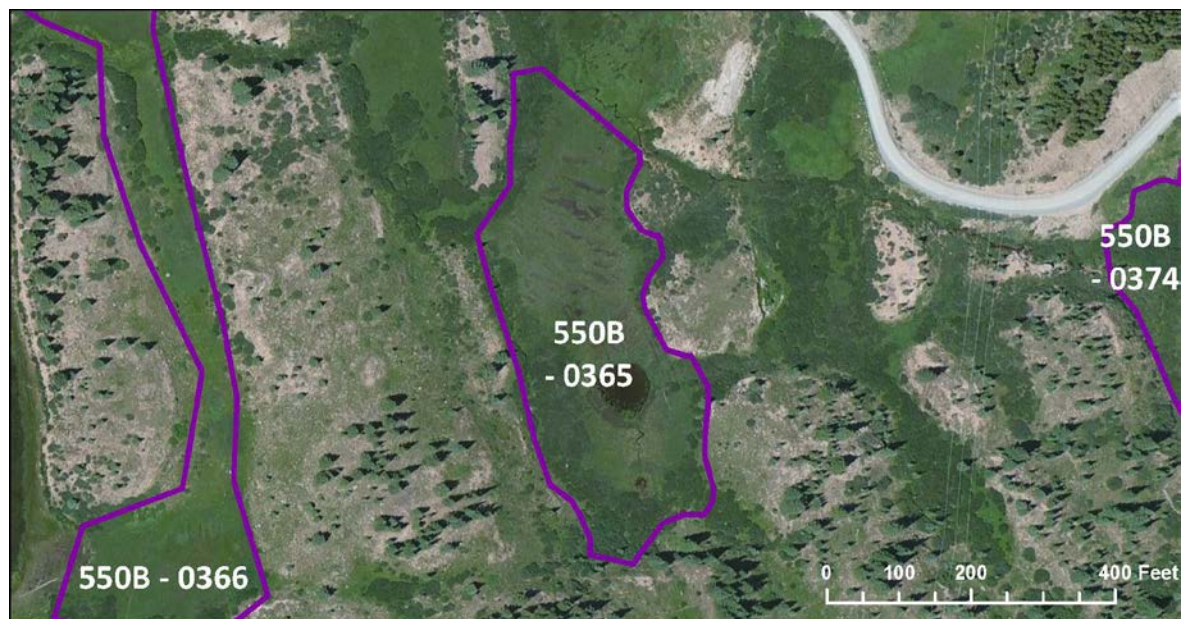
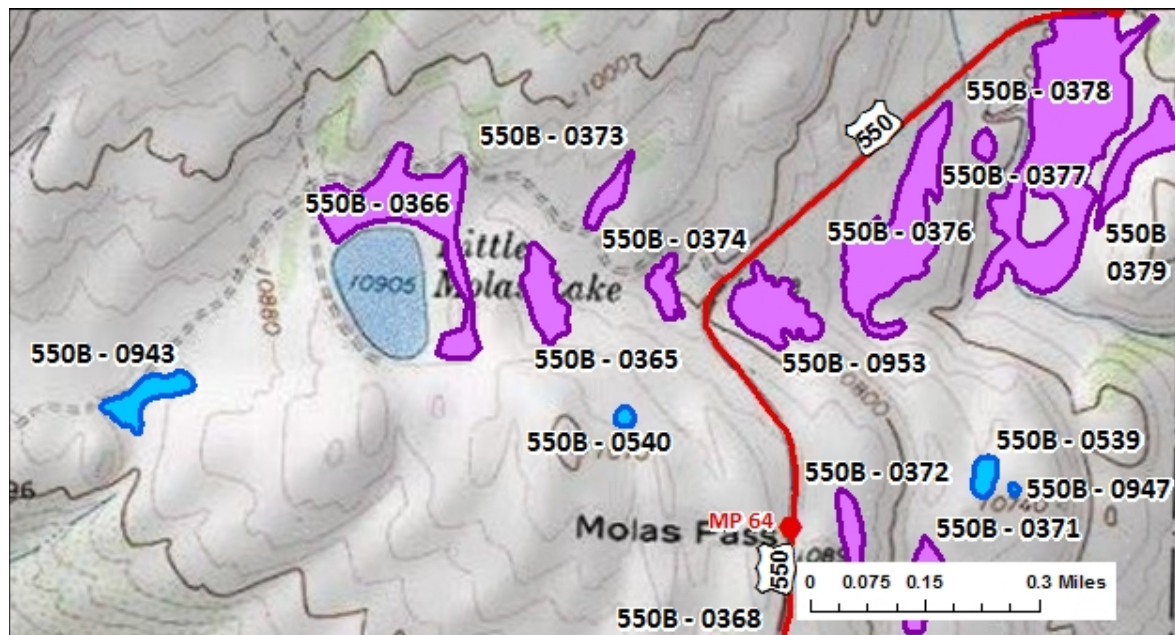
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,915 ft

Size: 2.94 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0366

Nearest Milepoint: US 550, MP 64

Location: Molas Pass, adjacent to Little Molas Lake

Surveyed Date: N/A

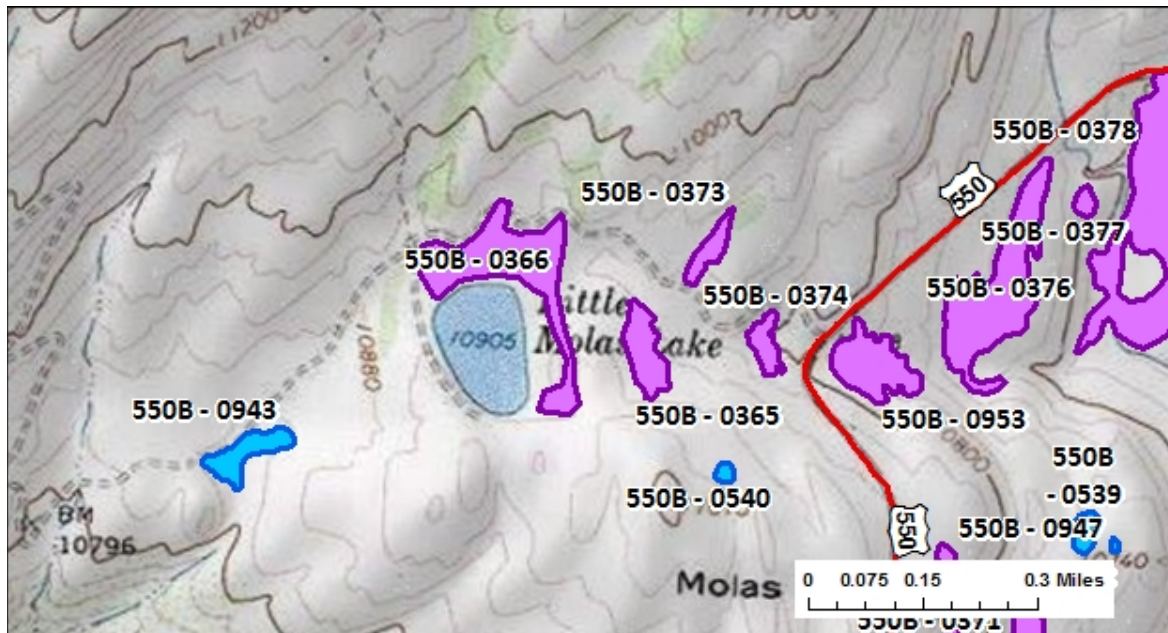
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,915 ft

Size: 10.35 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0367

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

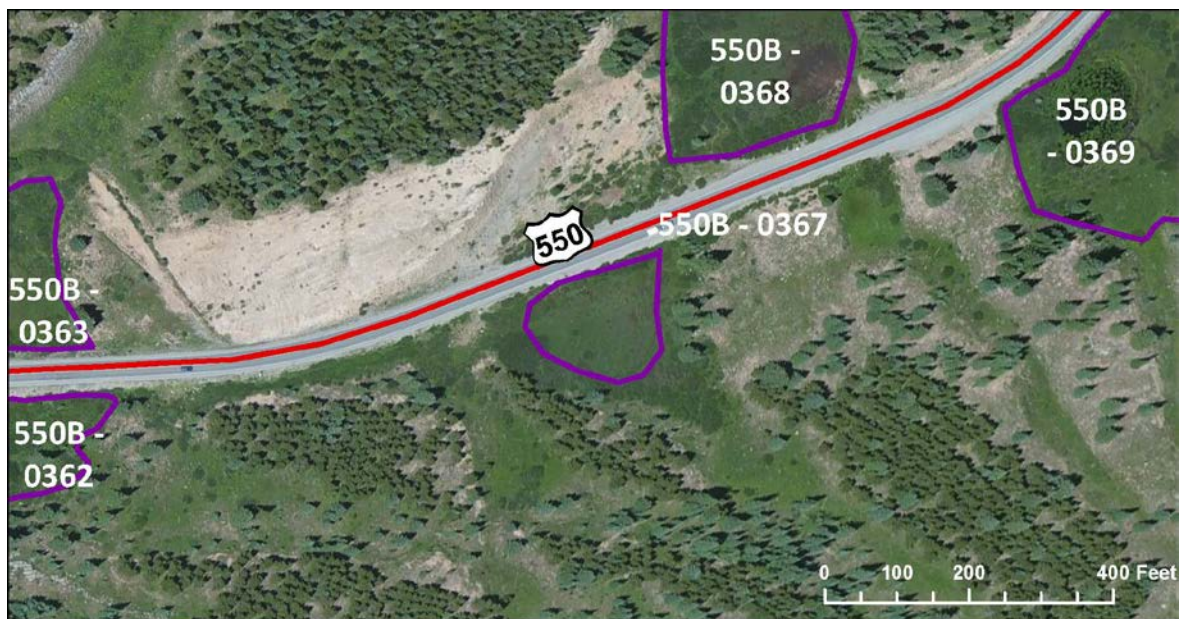
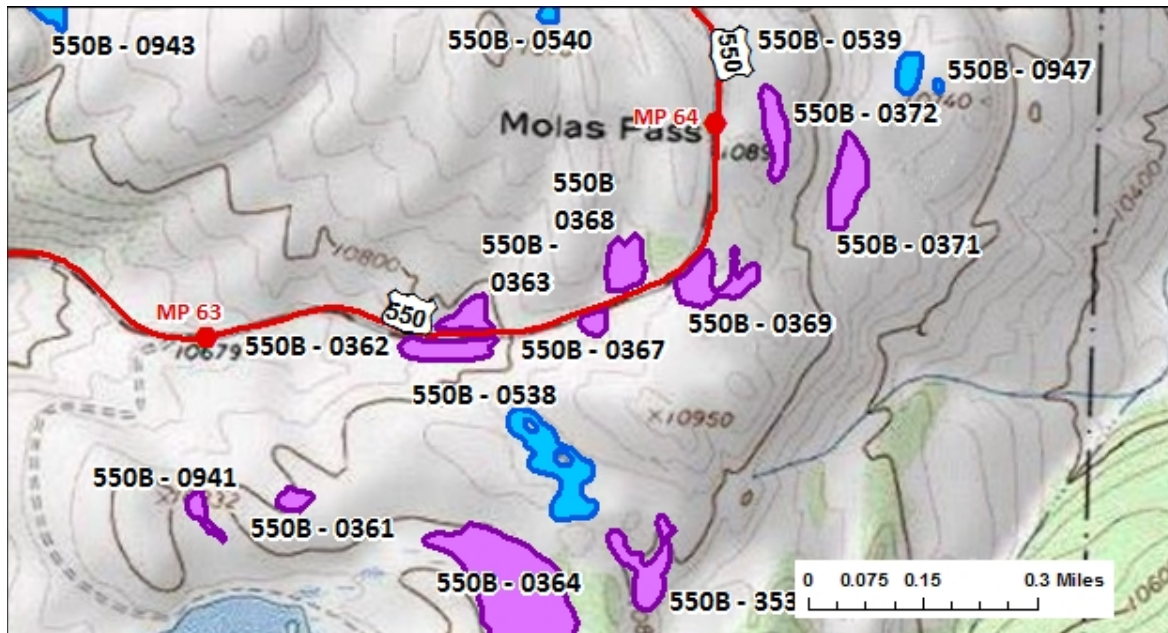
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,837 ft

Size: 0.54 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0368

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

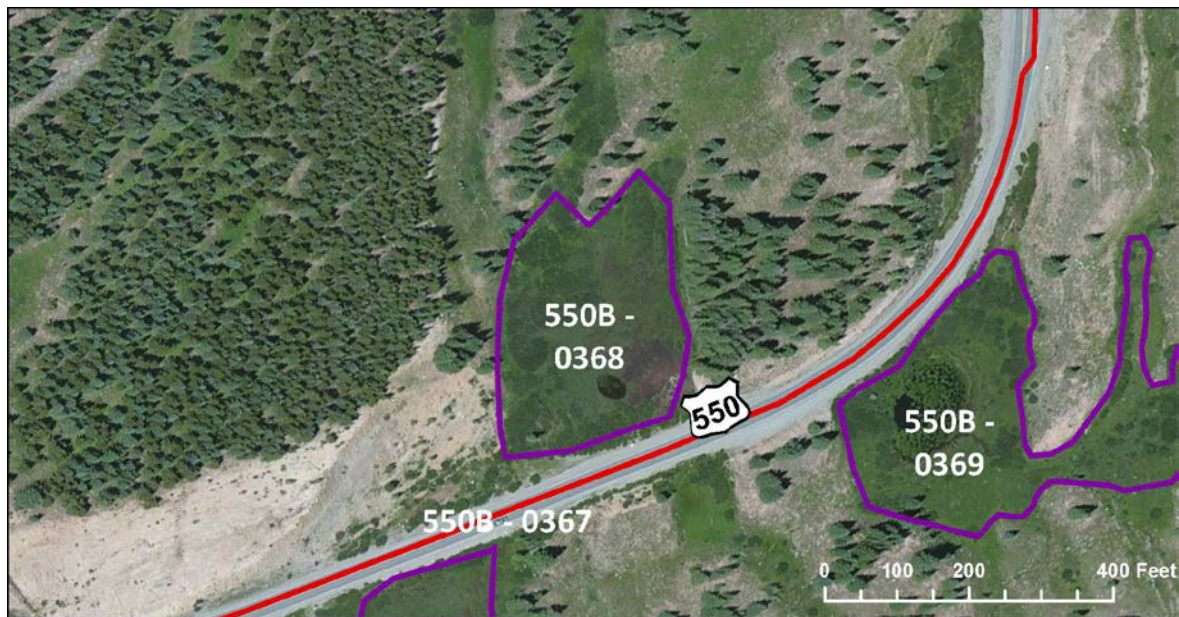
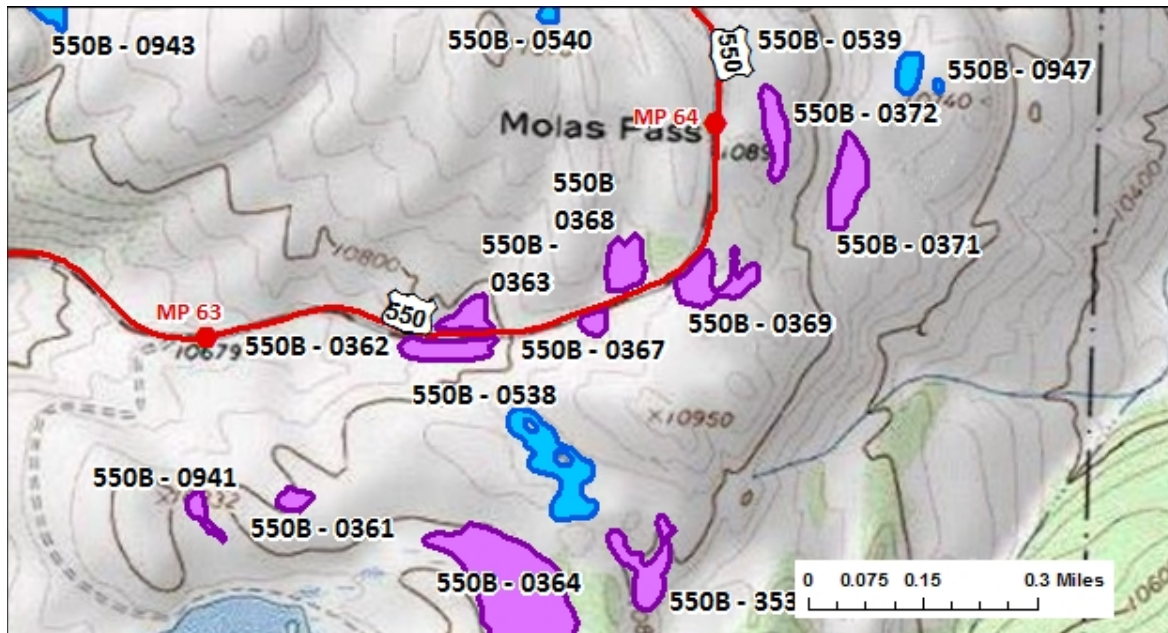
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,876 ft

Size: 1.81 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0369

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

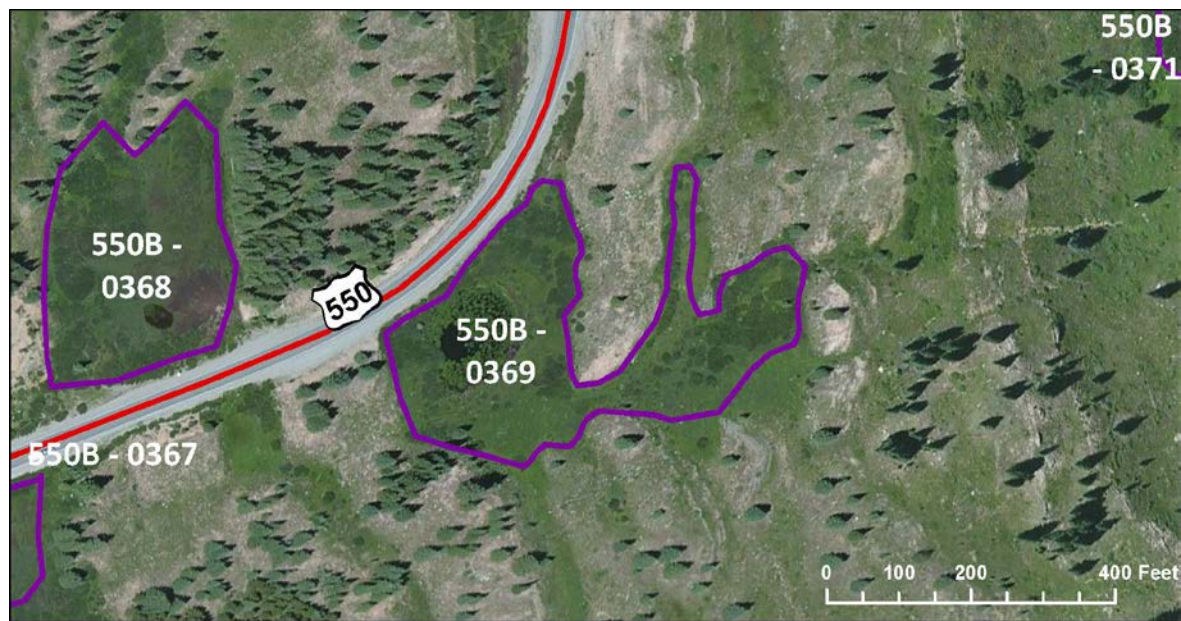
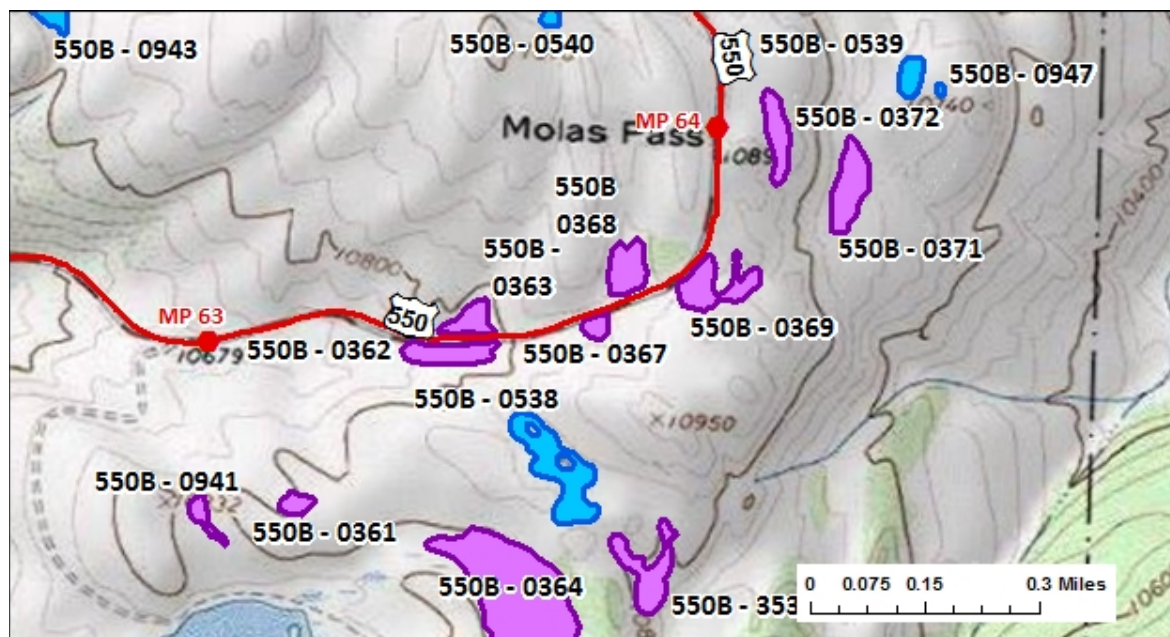
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,883 ft

Size: 2.56 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0371

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

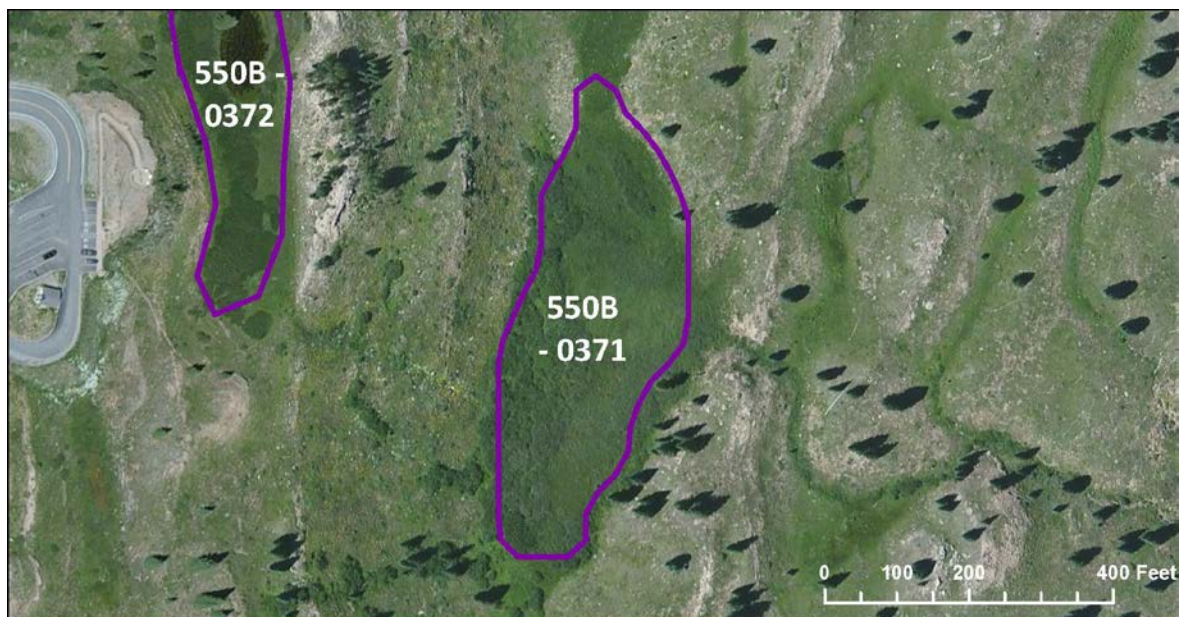
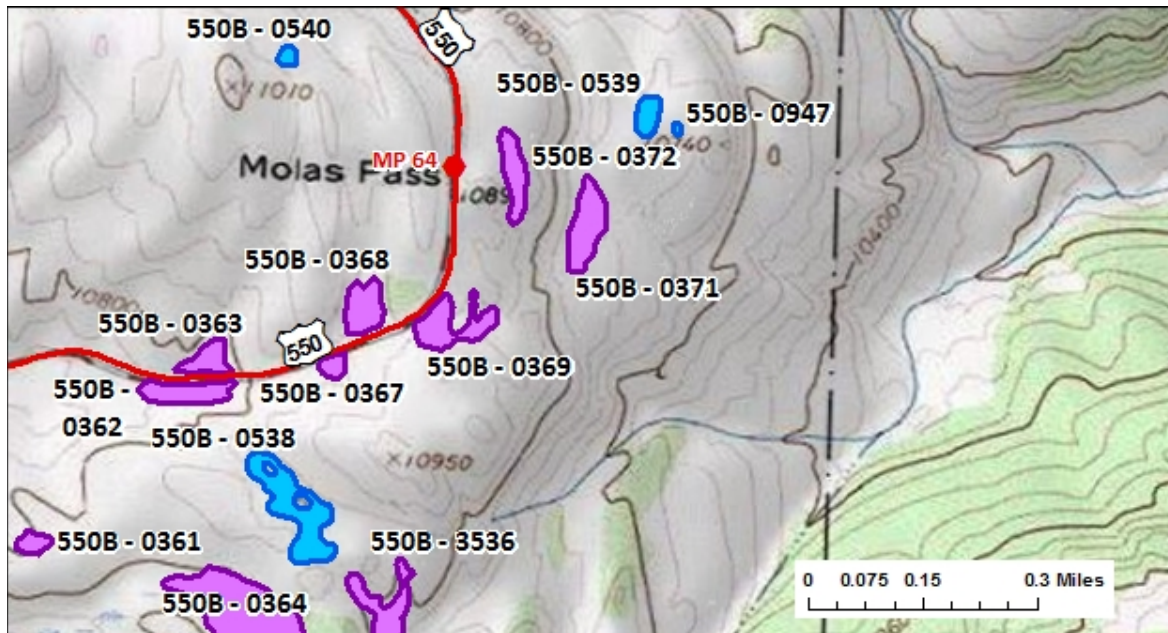
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,755 ft

Size: 2.60 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0372

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

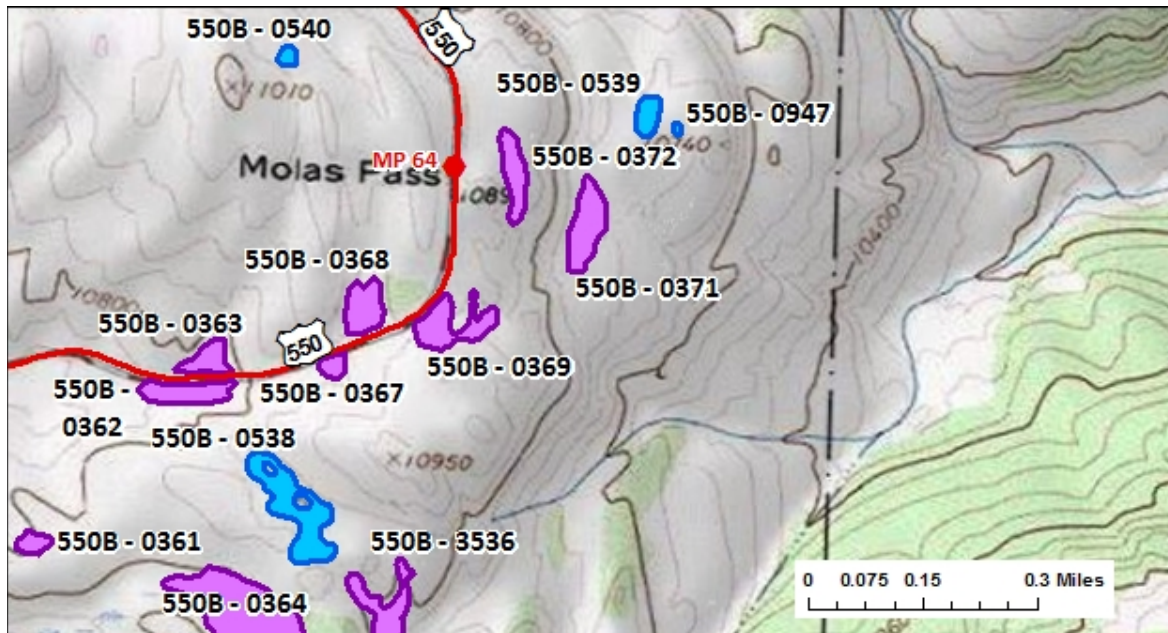
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,886 ft

Size: 1.73 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0373

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

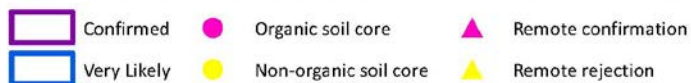
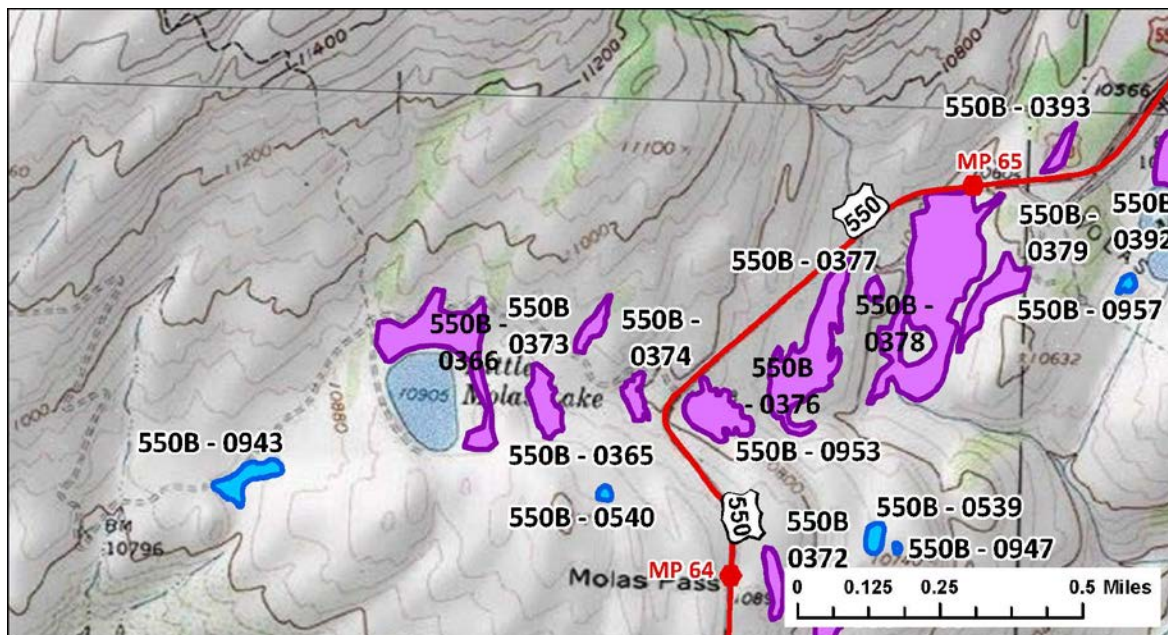
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,899 ft

Size: 1.39 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0374

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: 8/29/2016

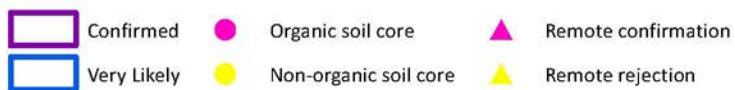
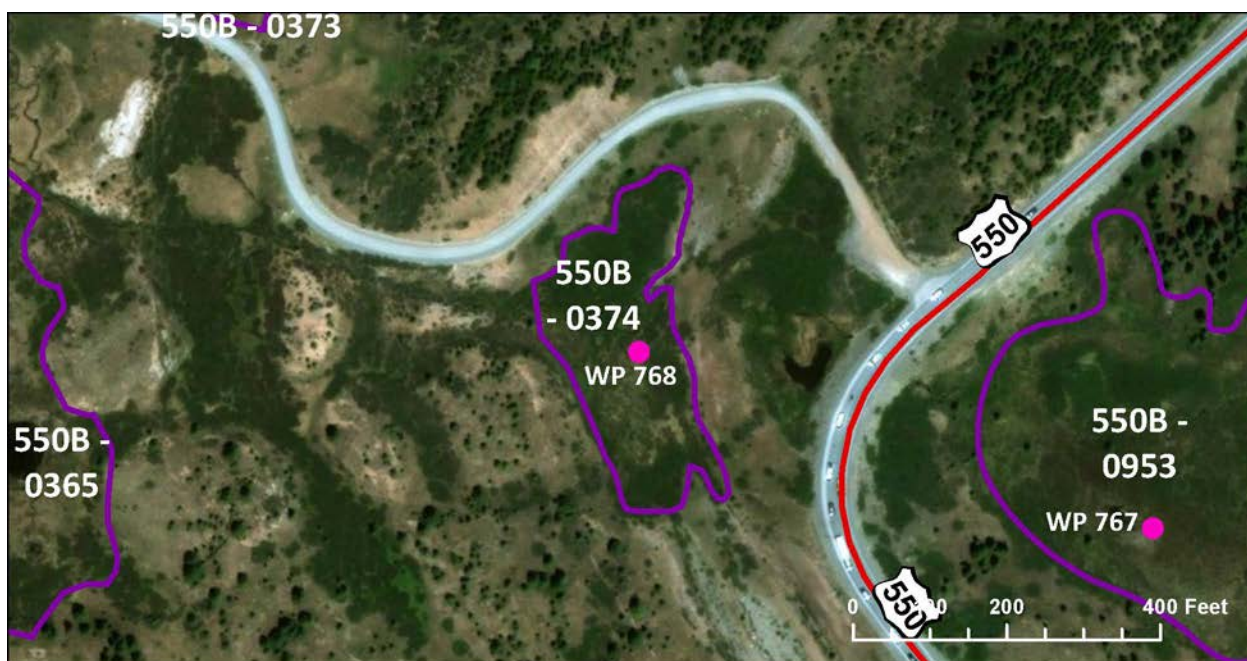
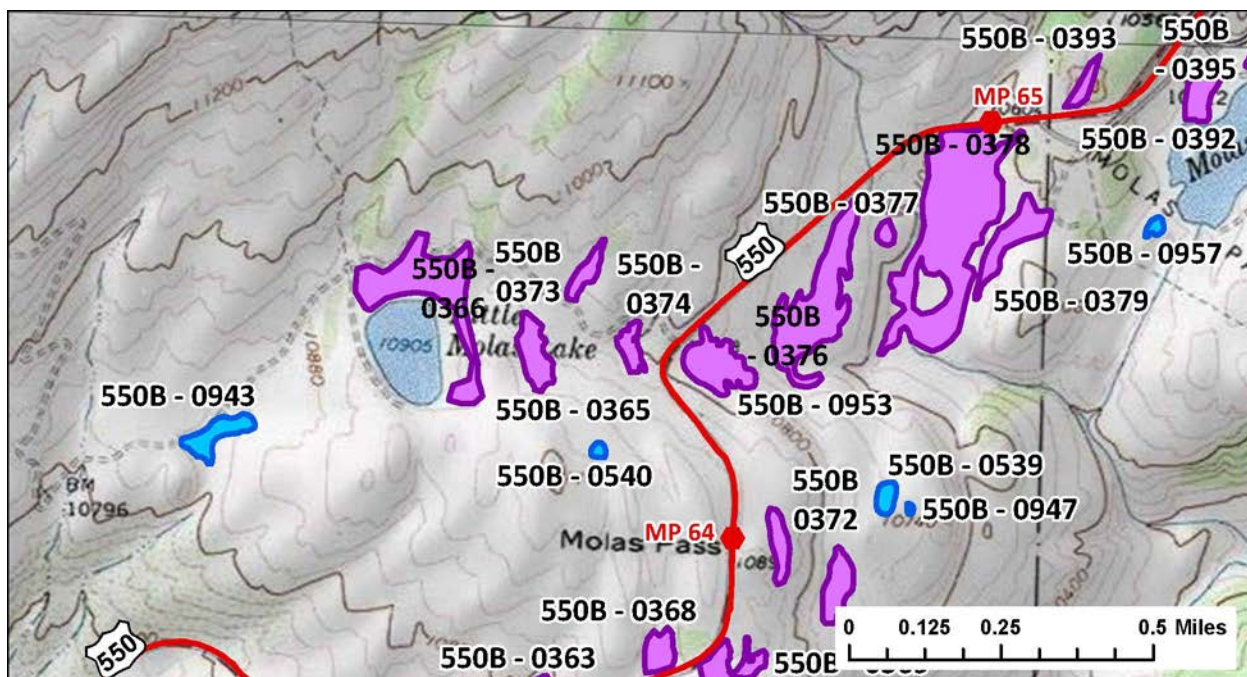
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,850 ft

Size: 1.38 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Gently sloping fen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
JUEN	<i>Juncus ensifolius</i>	4	3.5
SWPE	<i>Swertia perennis</i>	4	3.5
CAUT	<i>Carex utriculata</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
PEFL15	<i>Pentaphylloides floribunda</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
LUPA4	<i>Luzula parviflora</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	1	0.1
HILA5	<i>Hippochaete laevigata</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
MUFI2	<i>Muhlenbergia filiformis</i>	1	0.1
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	1	0.1

Fen Polygon: 550B - 0376

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

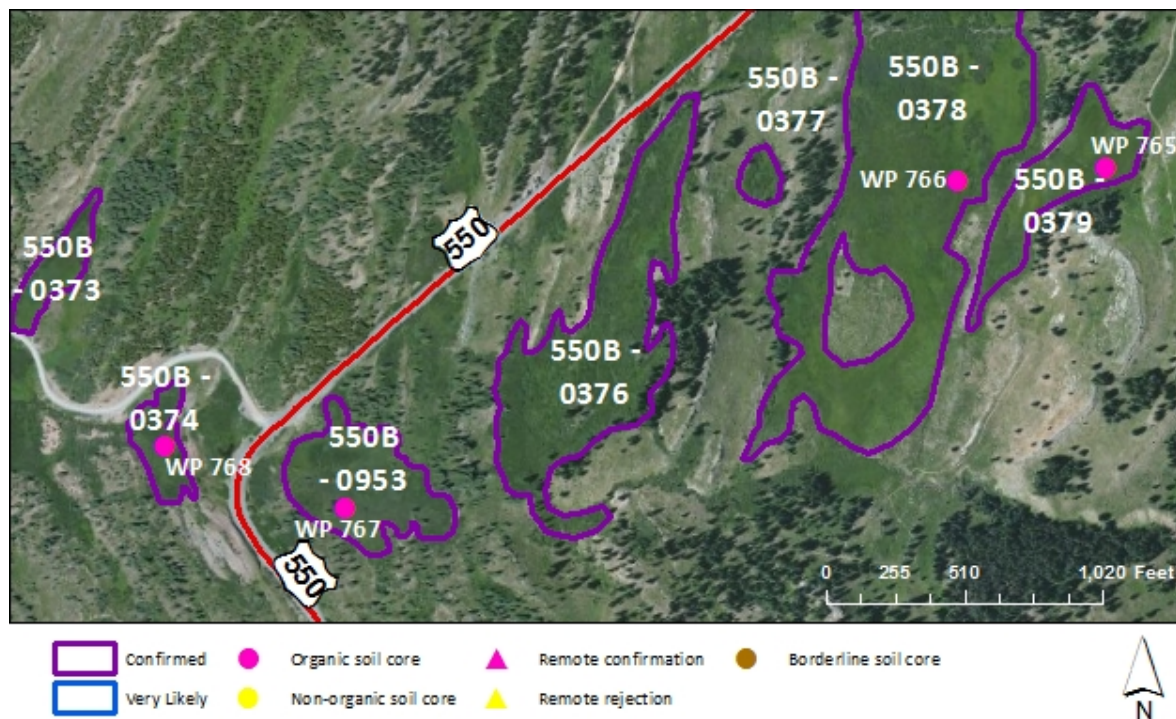
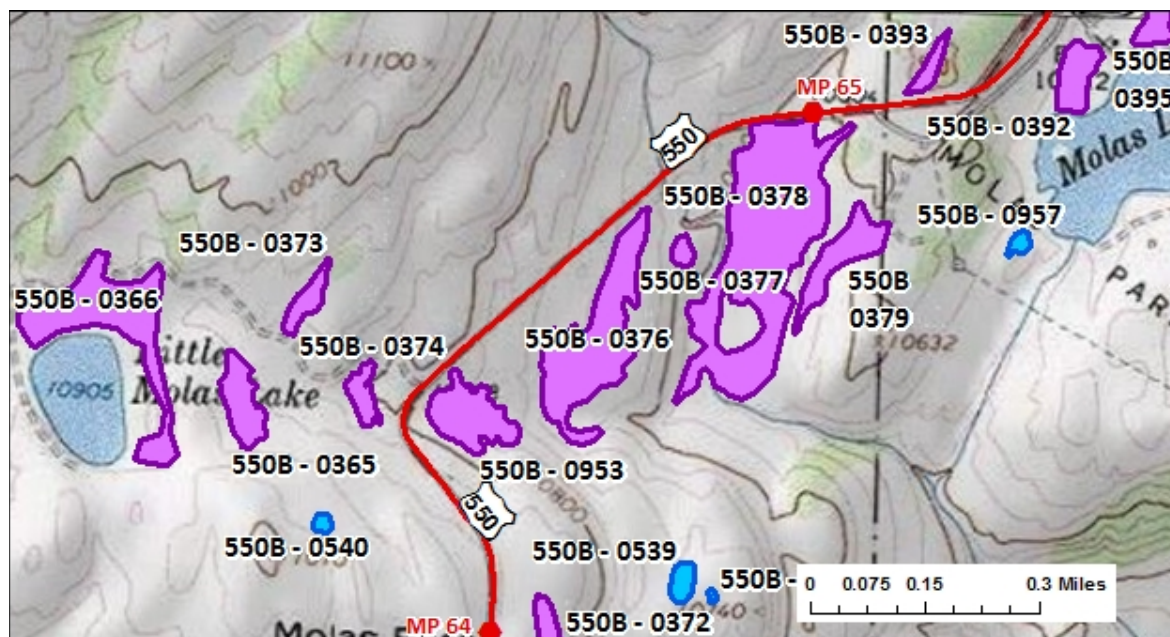
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,682 ft

Size: 10.74 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0377

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: N/A

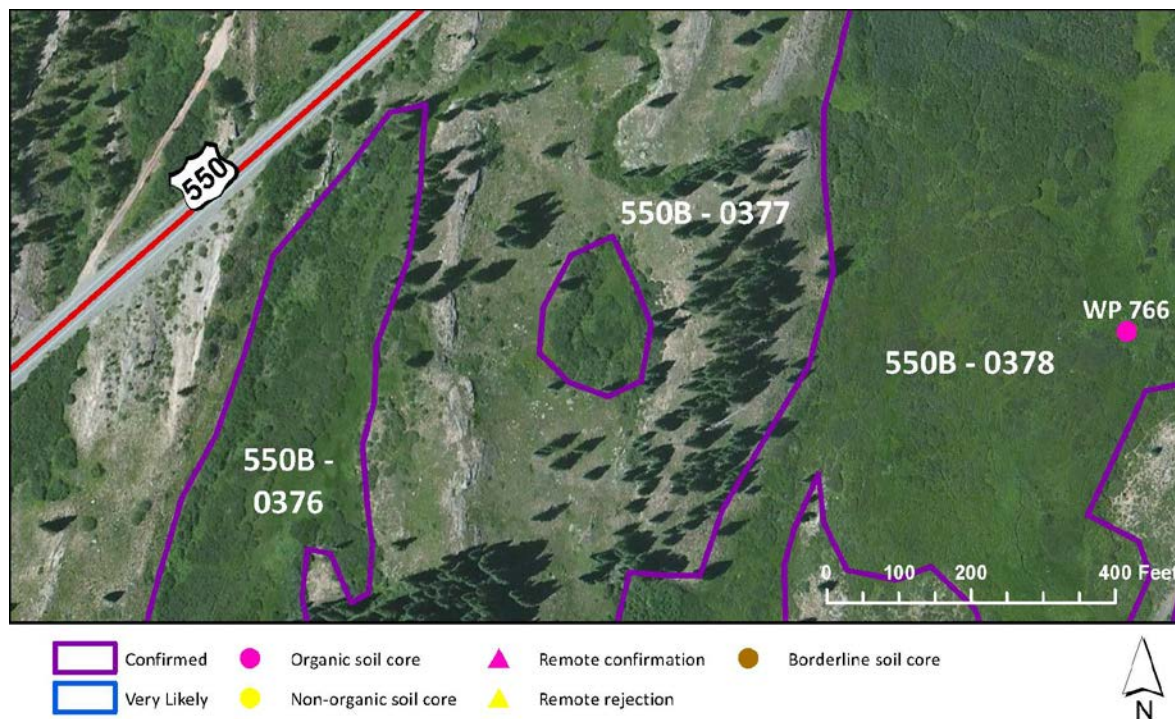
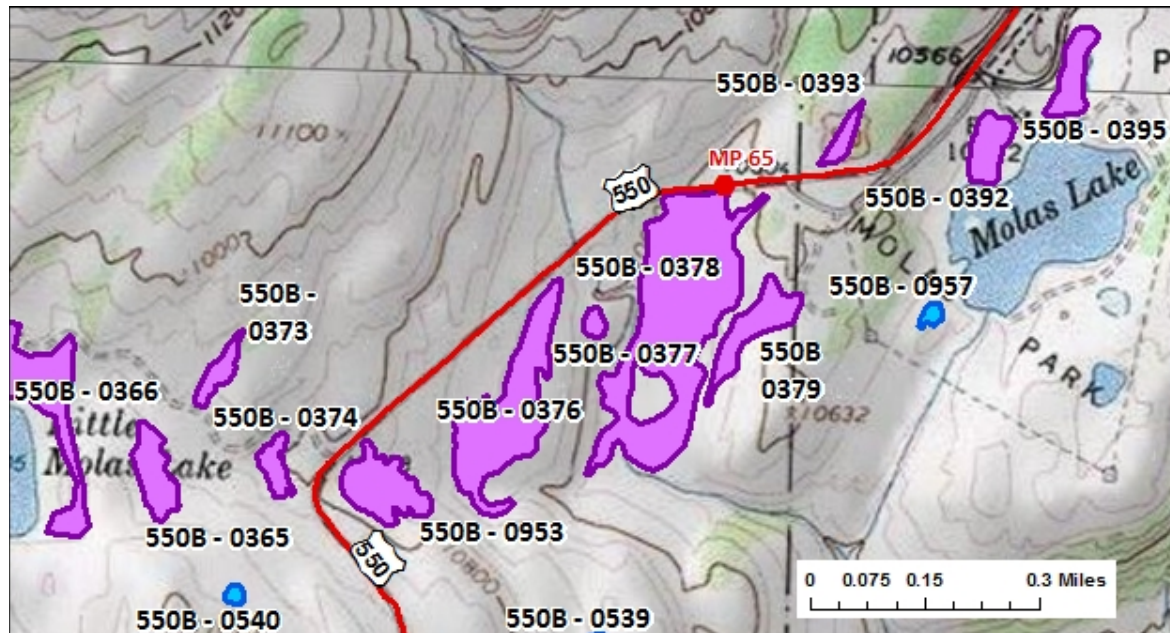
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,646 ft

Size: 0.55 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0378

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: 8/29/2016

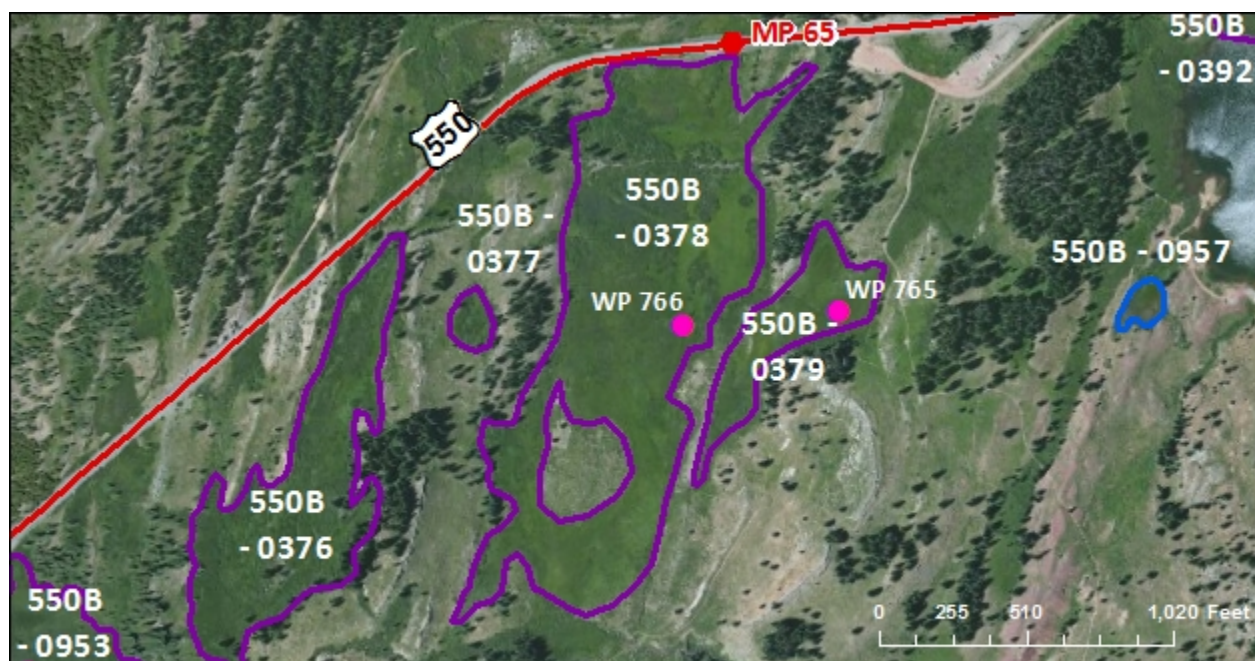
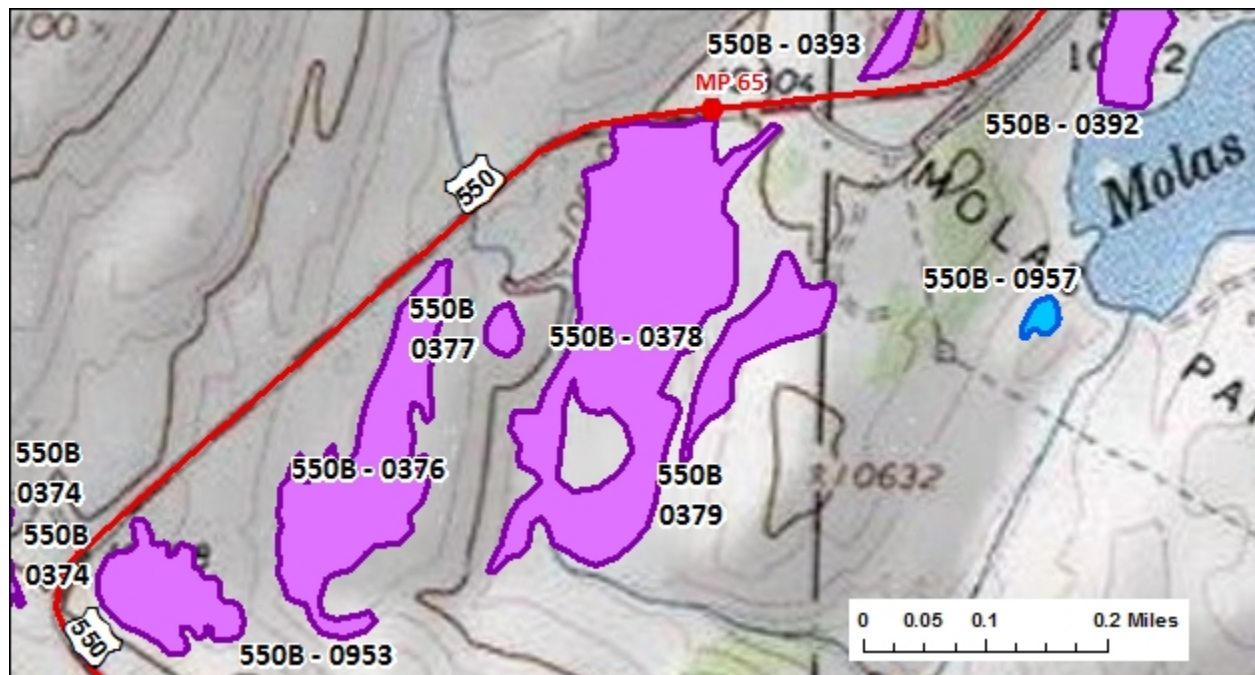
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,584 ft

Size: 23.38 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large, gently sloping fen, surrounded by Picea.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
CALAM	<i>Calamagrostis</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
THAL12	<i>Thalictrum</i>	2	0.5
VENU2	<i>Veronica nutans</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
HIHIA	<i>Hierochloë hirta ssp. Arctica</i>	1	0.1
POEA	<i>Podistera eastwoodiae</i>	1	0.1
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	1	0.1

Fen Polygon: 550B - 0379

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: 8/29/2016

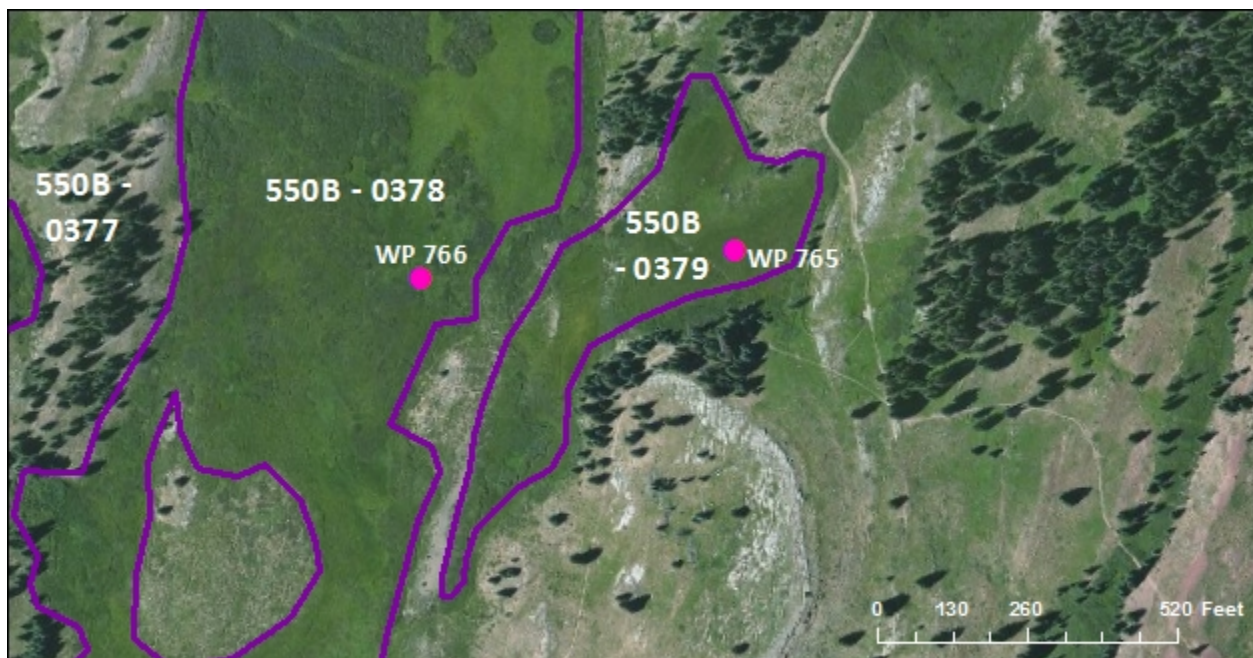
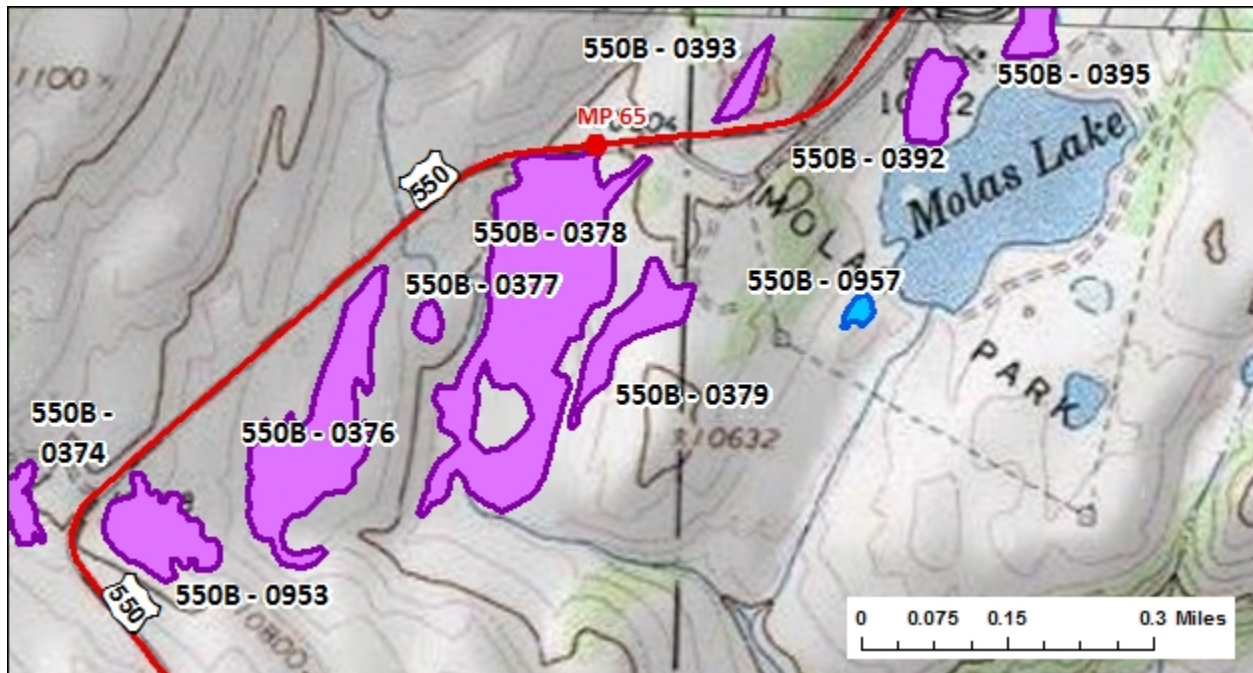
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,571 ft

Size: 3.69 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large, gently sloping fen.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	5	7.5
CAIL	<i>Carex illota</i>	4	3.5
CAUT	<i>Carex utriculata</i>	4	3.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	3	1.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
F-GENTI	<i>Gentianaceae</i>	2	0.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	2	0.5
PEFL15	<i>Pentaphylloides floribunda</i>	2	0.5
SAWO	<i>Salix wolfii</i>	2	0.5
ACLA5	<i>Achillea lanulosa</i>	1	0.1
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 550B - 0392

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: N/A

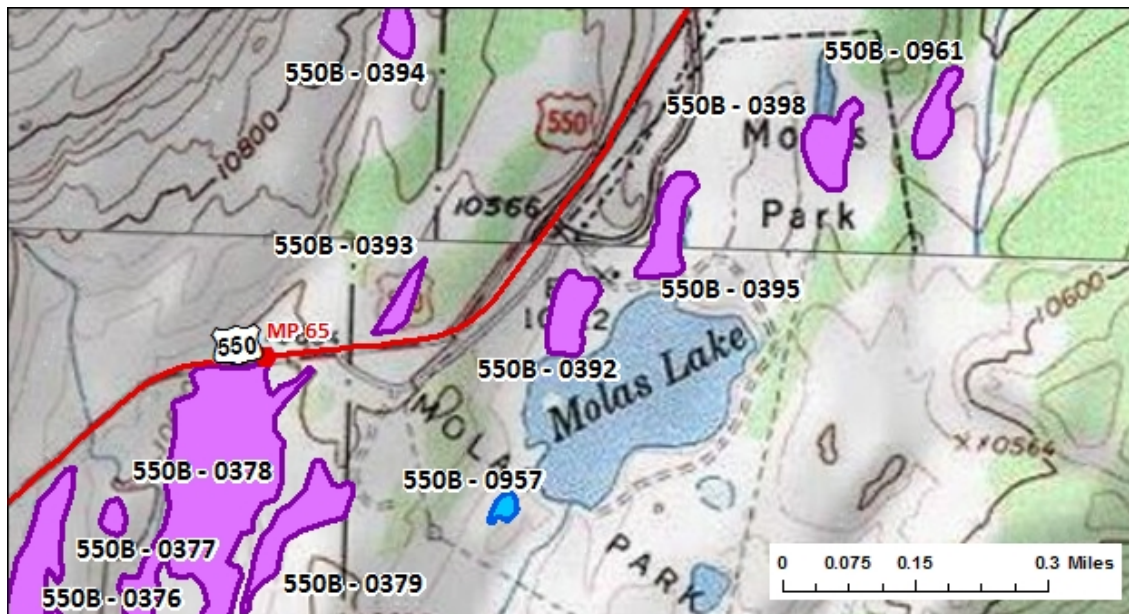
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,528 ft

Size: 2.42 acres

ROW Status: Beyond ROW, but contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0393

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: 8/29/2016

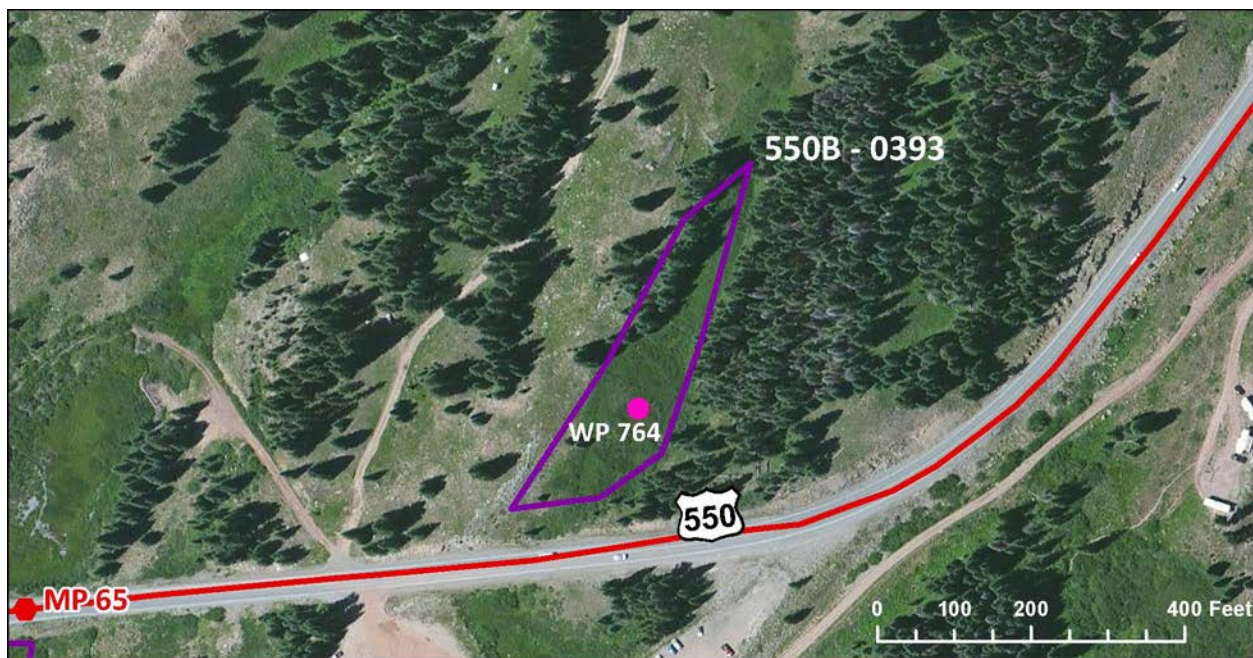
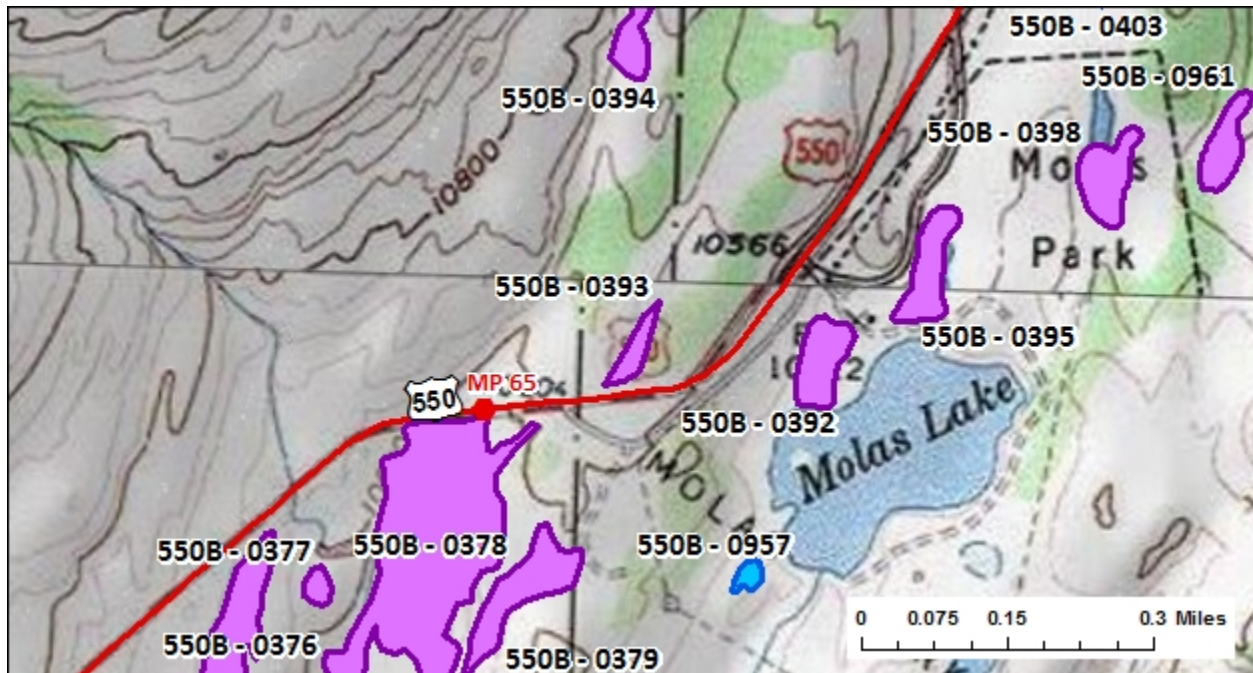
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 10,646 ft

Size: 0.98 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Gently sloping fen in a depression, surrounded by *Picea*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CACA4	<i>Calamagrostis canadensis</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
PEFL15	<i>Pentaphylloides floribunda</i>	4	3.5
CACA11	<i>Carex canescens</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5

Fen Polygon: 550B - 0394

Nearest Milepoint: US 550, MP 65

Location: Molas Pass

Surveyed Date: N/A

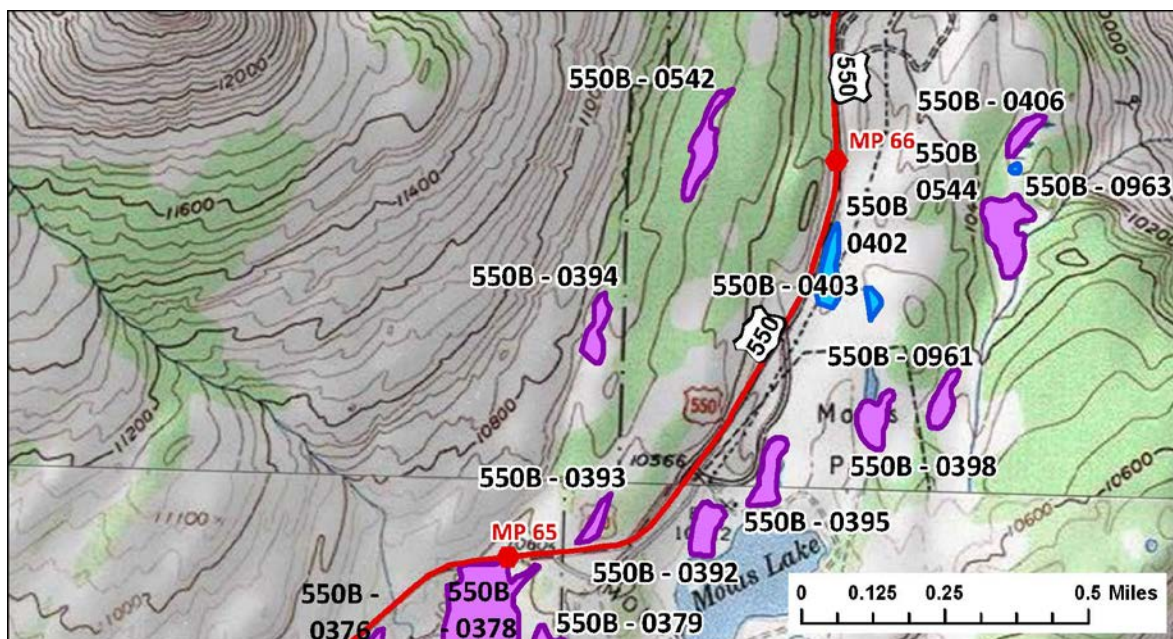
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,758 ft

Size: 1.89 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0395

Nearest Milepoint: US 550, MP 65

Location: Molas Pass, adjacent to Molas Lake

Surveyed Date: N/A

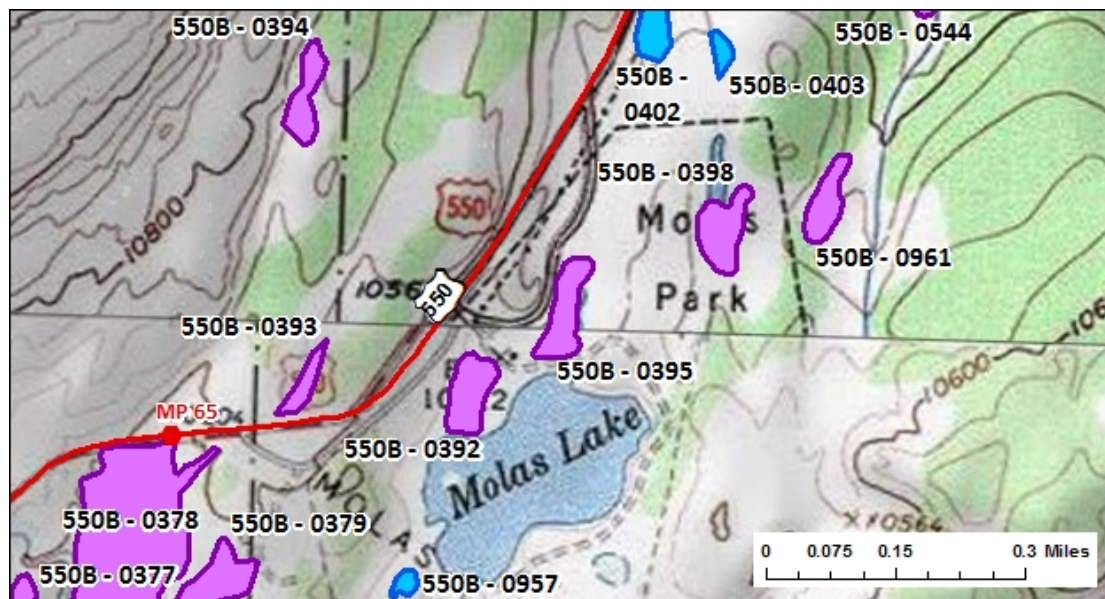
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,525 ft

Size: 2.53 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0398

Nearest Milepoint: US 550, MP 66

Location: Molas Park

Surveyed Date: N/A

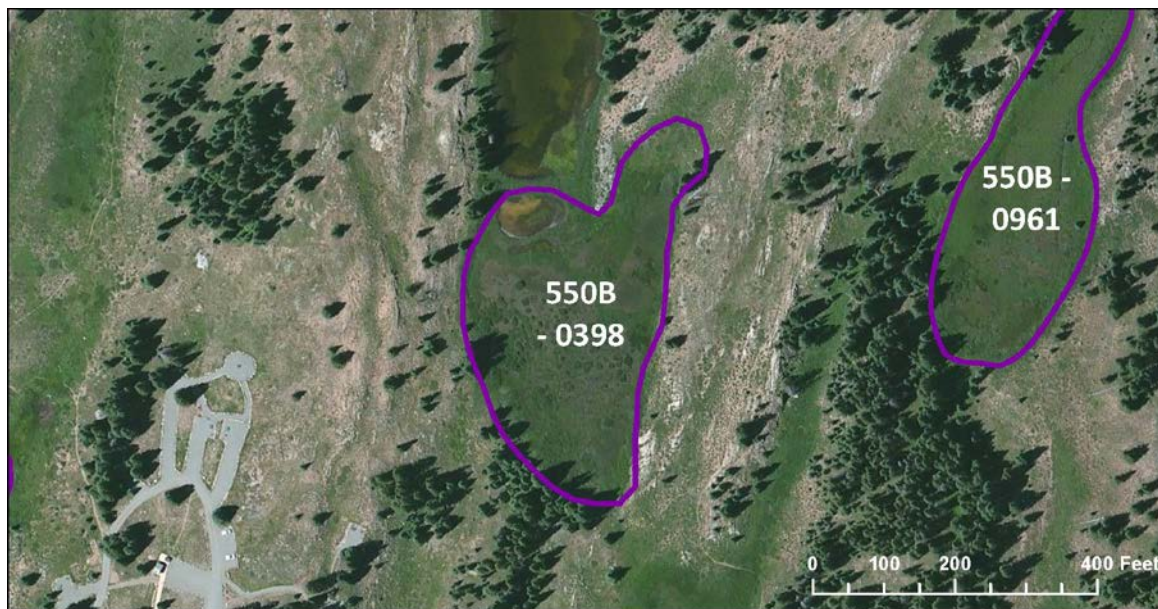
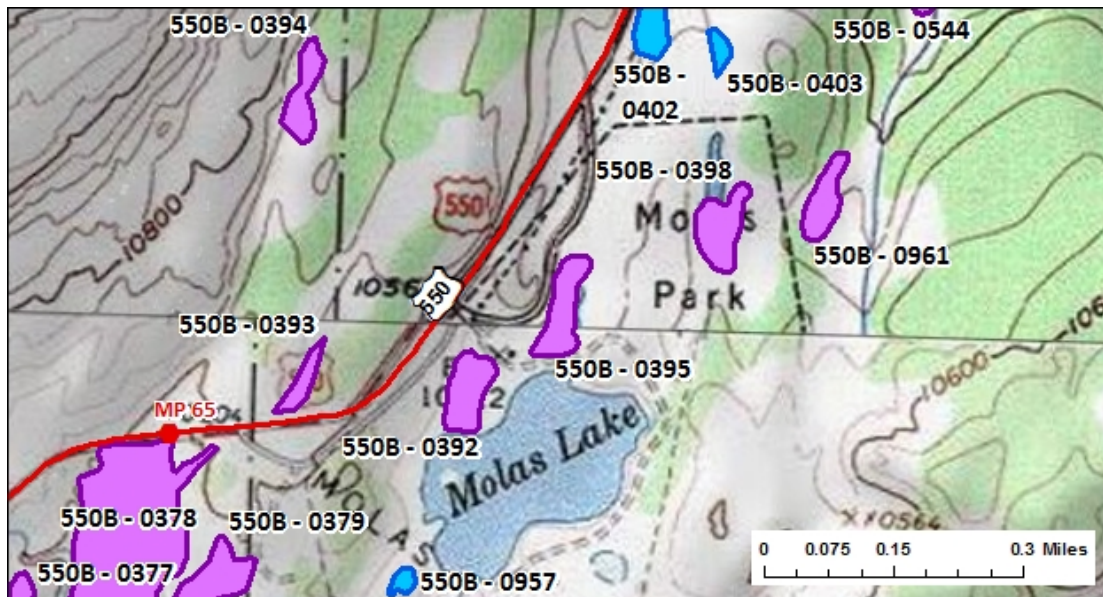
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,502 ft

Size: 2.48 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0406

Nearest Milepoint: US 550, MP 66

Location: Molas Pass

Surveyed Date: N/A

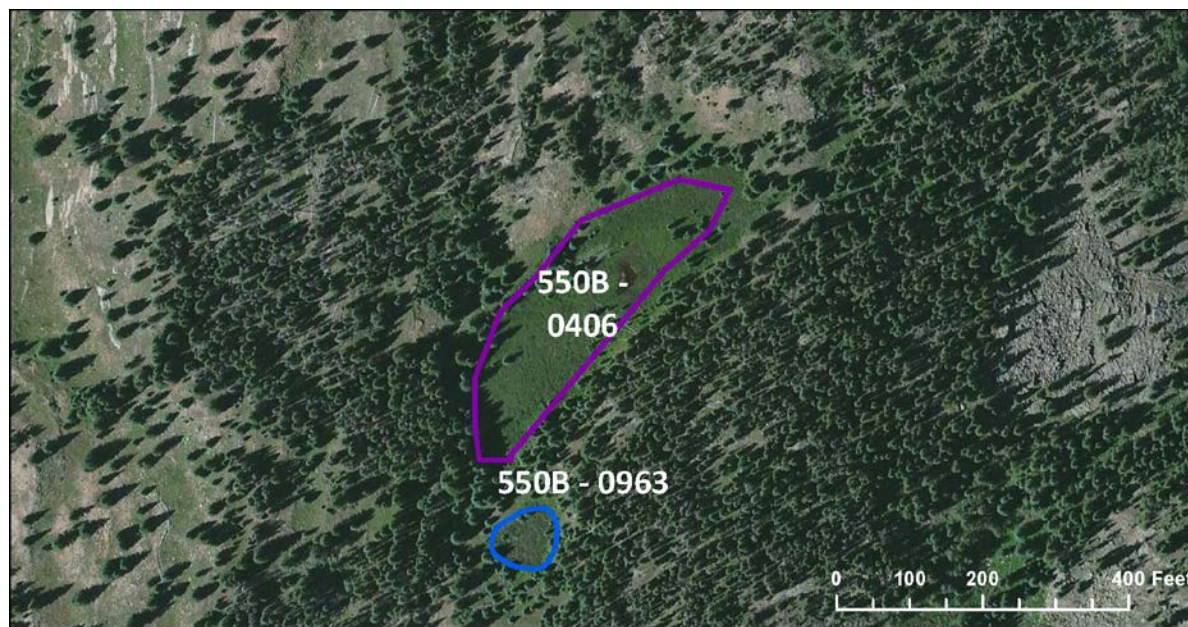
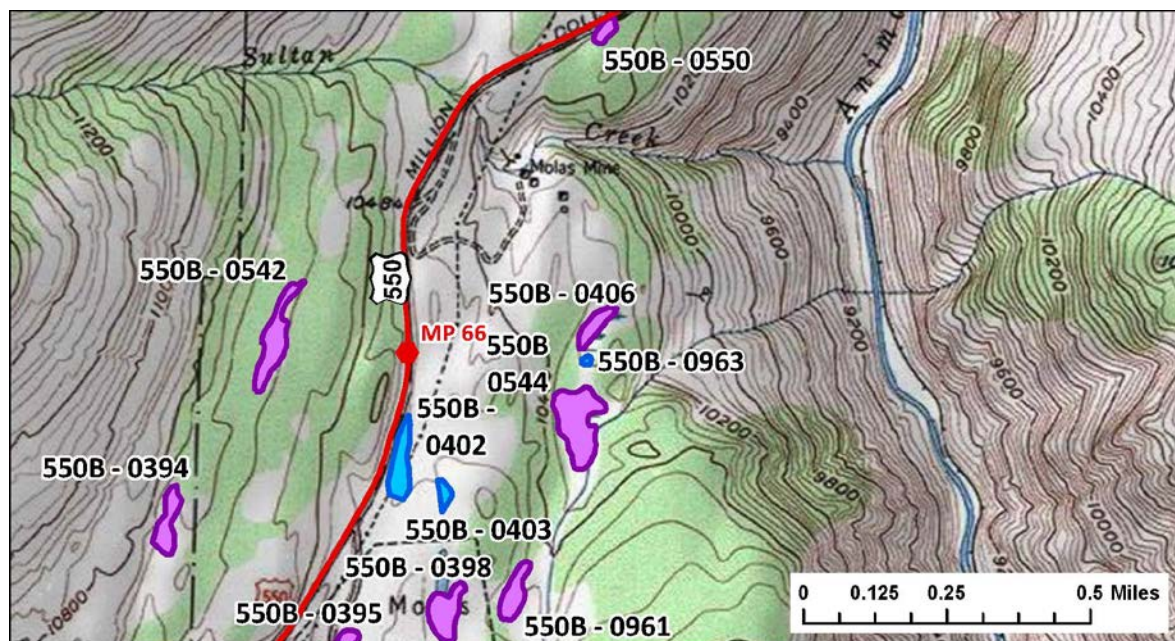
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,354 ft

Size: 1.22 acres

ROW Status: Public Easement

Primary Landowners: BLM Wilderness Study Area



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0542

Nearest Milepoint: US 550, MP 66

Location: Molas Pass

Surveyed Date: N/A

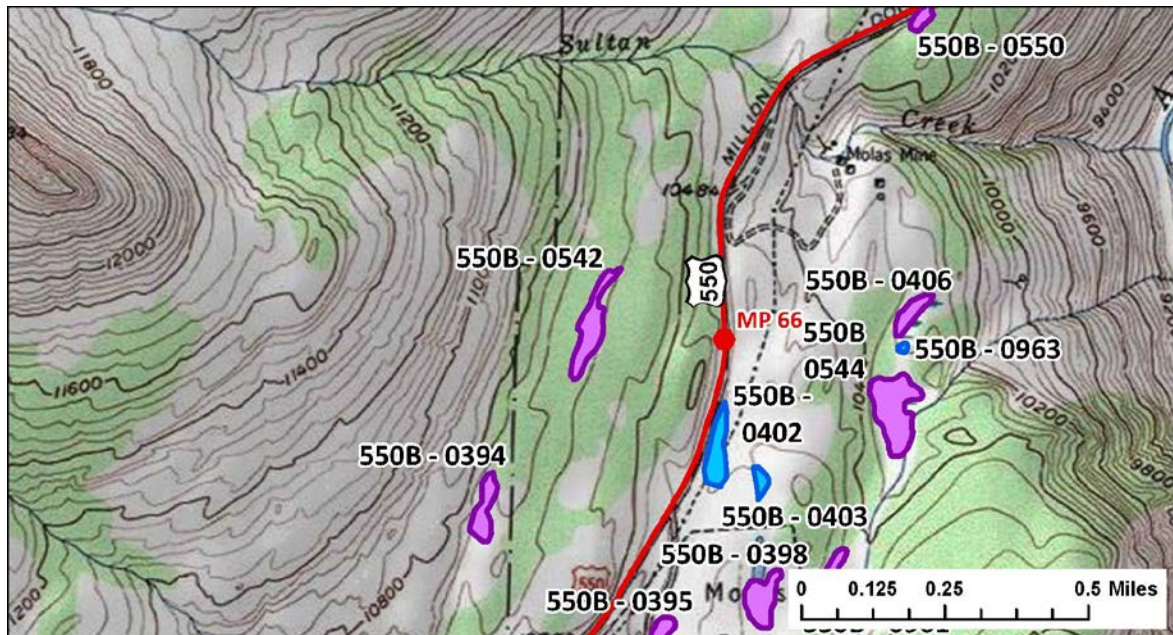
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,705 ft

Size: 3.14 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0544

Nearest Milepoint: US 550, MP 66

Location: Molas Pass

Surveyed Date: N/A

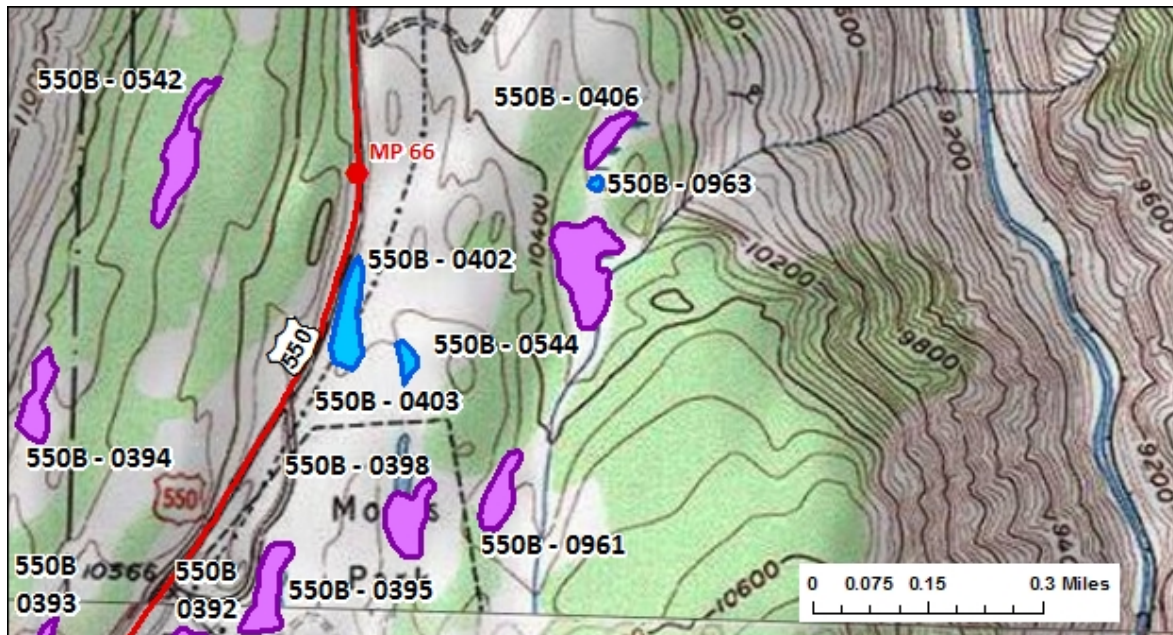
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,358 ft

Size: 4.95 acres

ROW Status: Public Easement

Primary Landowners: BLM Wilderness Study Area



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0550

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

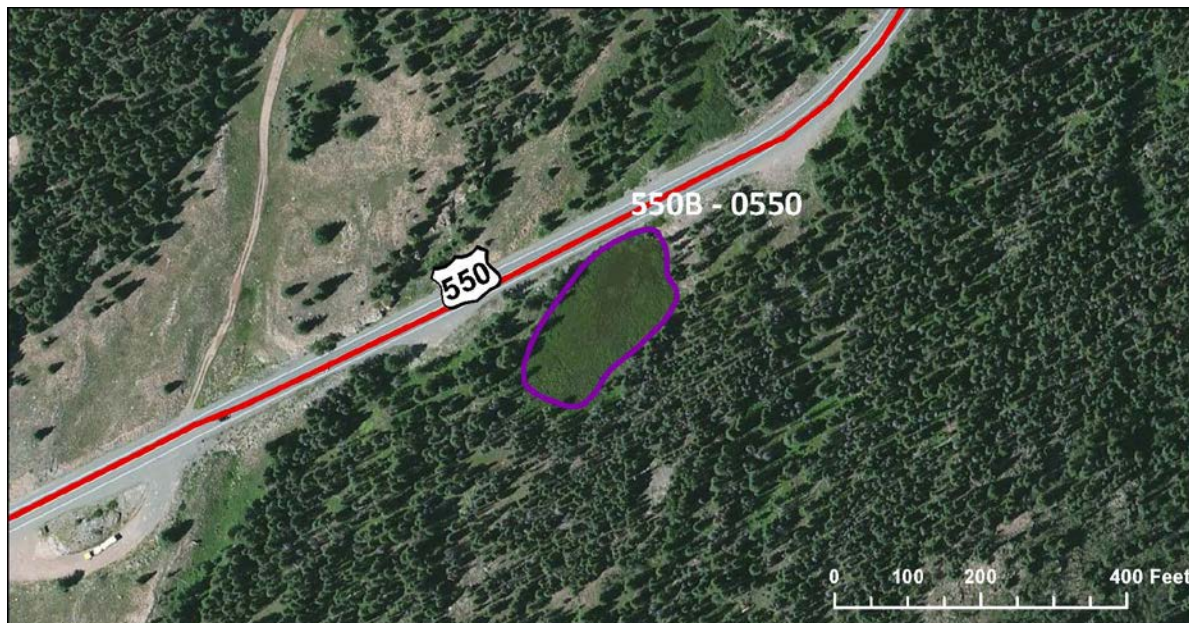
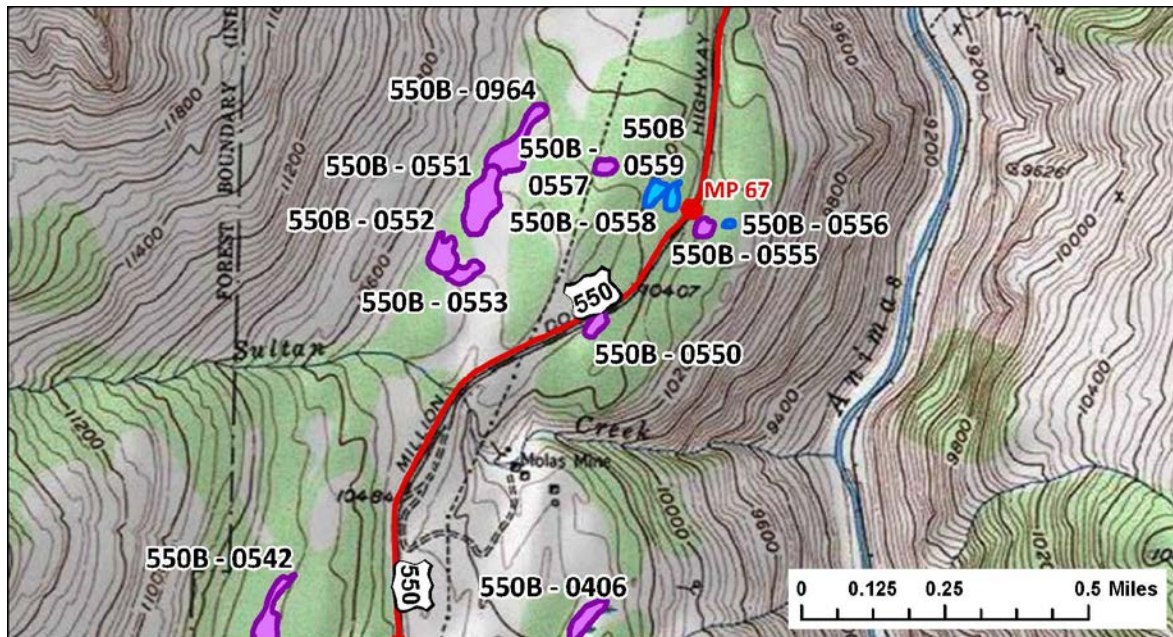
Proximity to Hwy: <5 m (16 ft)

Elevation: 10,449 ft

Size: 0.67 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0551

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

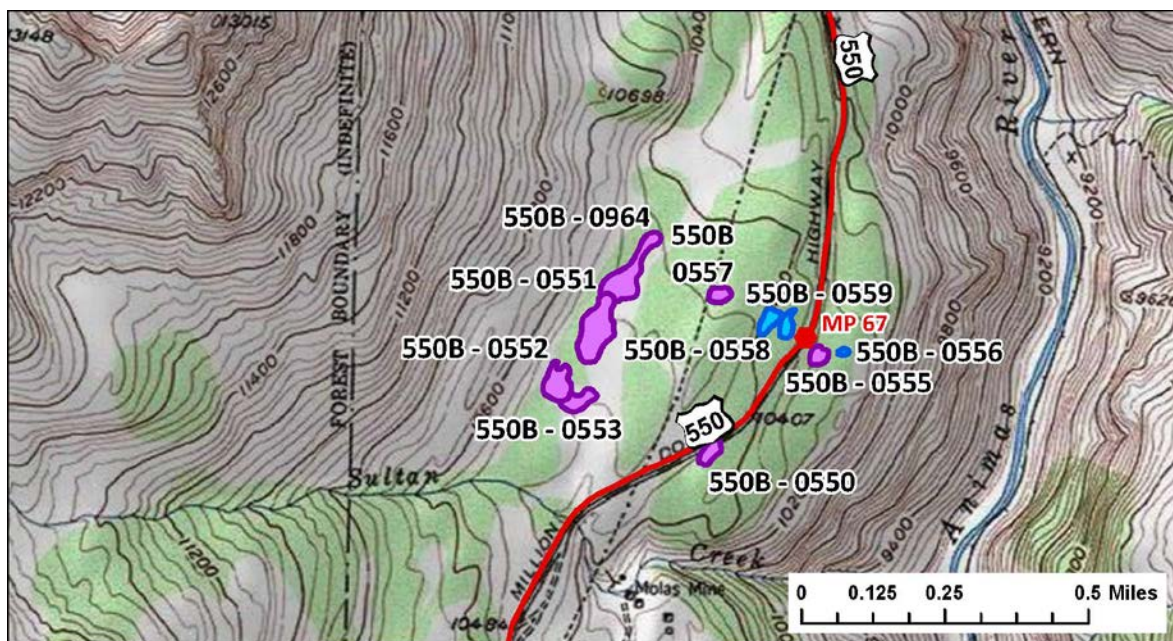
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,502 ft

Size: 3.14 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0552

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

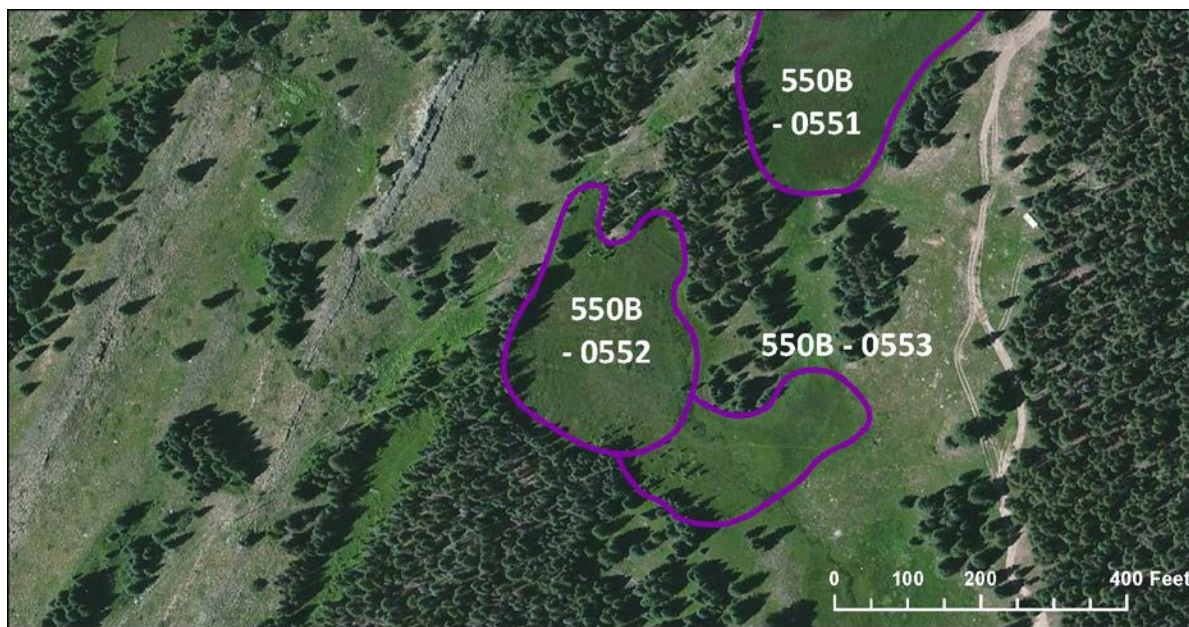
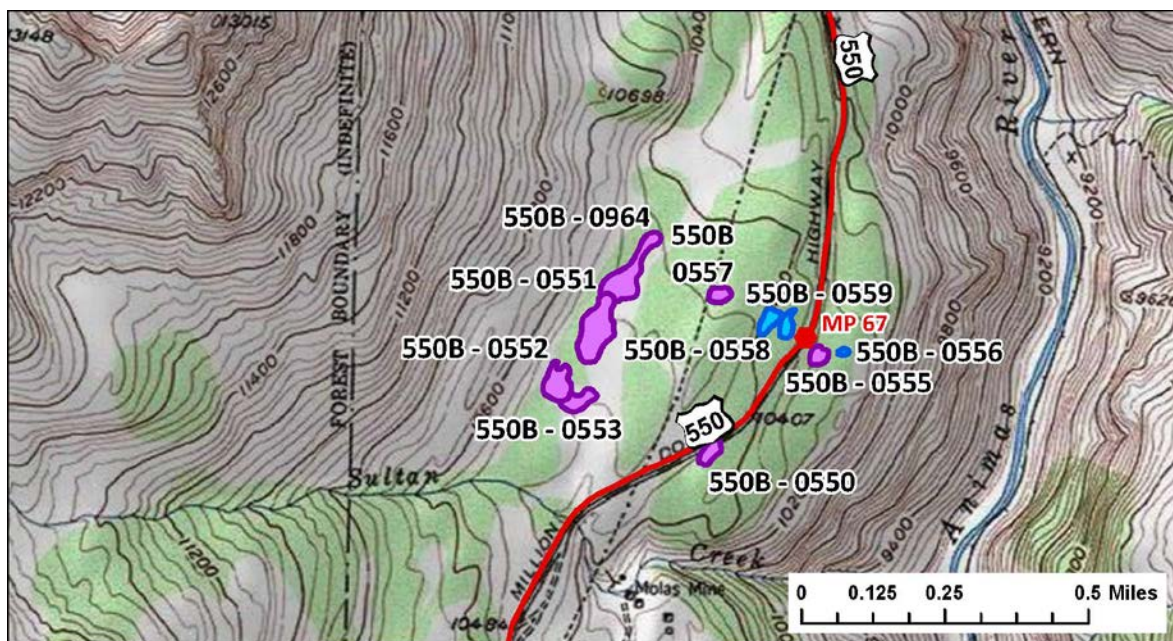
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,515 ft

Size: 1.54 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0553

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

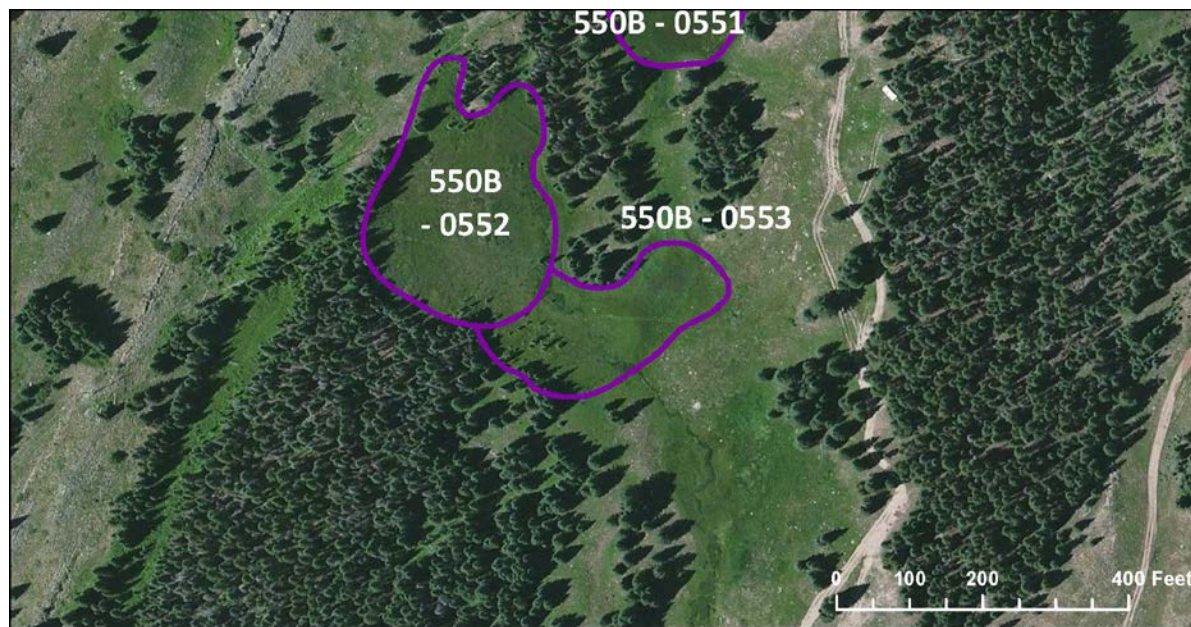
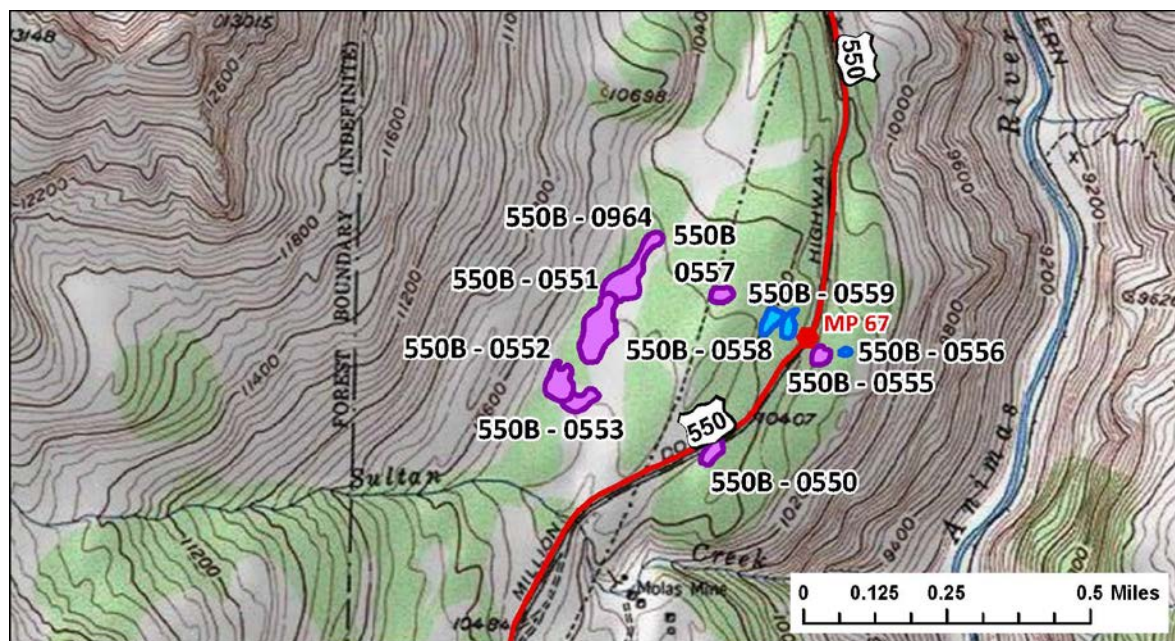
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,492 ft

Size: 0.90 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0555

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

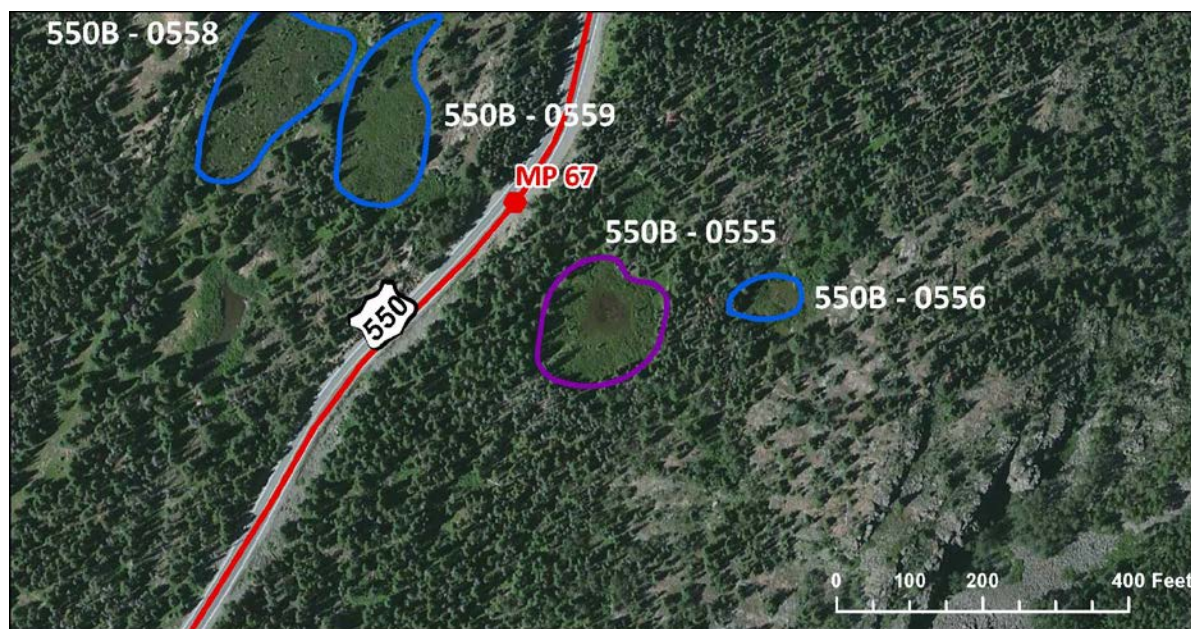
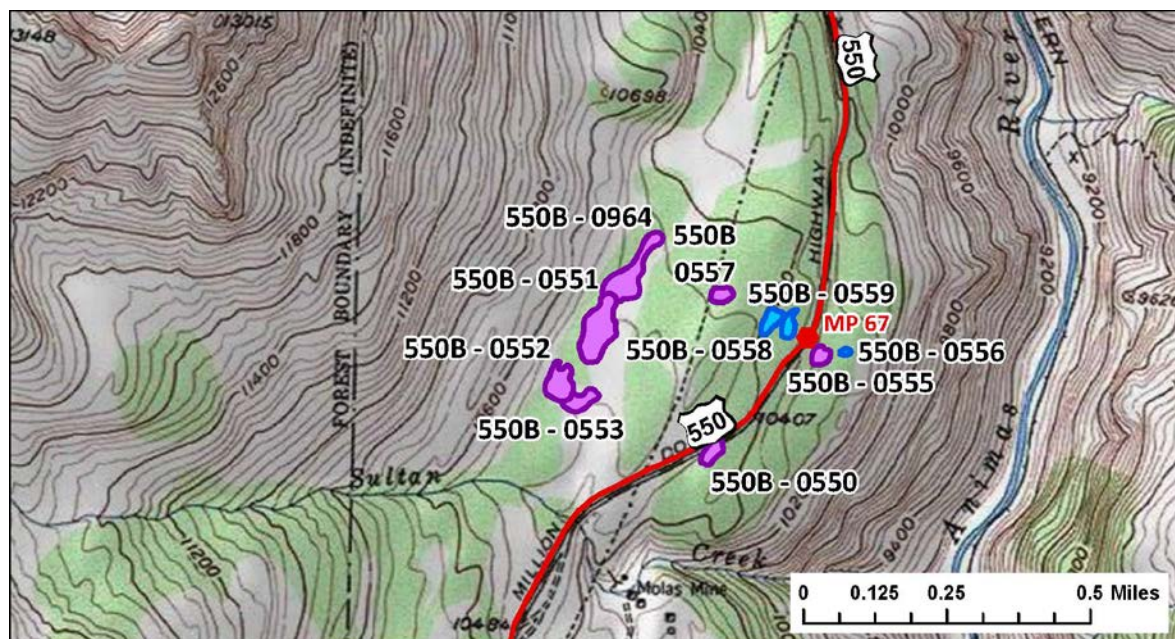
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,358 ft

Size: 0.54 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0557

Nearest Milepoint: US 550, MP 67

Location: Molas Pass

Surveyed Date: N/A

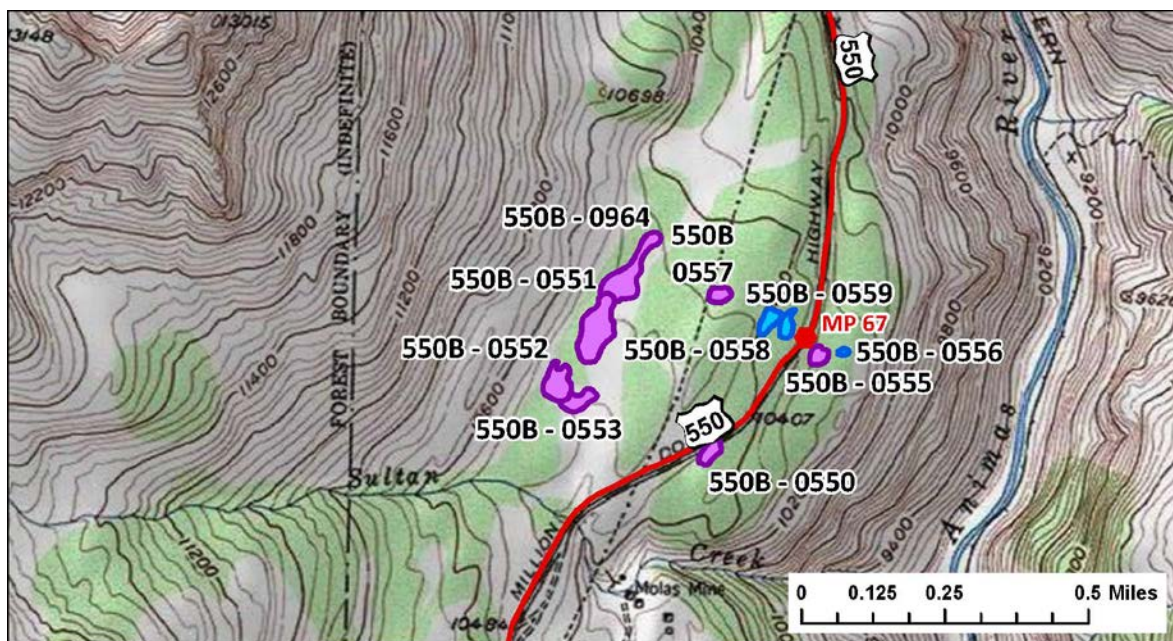
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,443 ft

Size: 0.53 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0566

Nearest Milepoint: US 550, MP 71

Location: Adjacent to South Fork Mineral Creek, west of Silverton, Colorado **Surveyed Date:** 8/28/2016

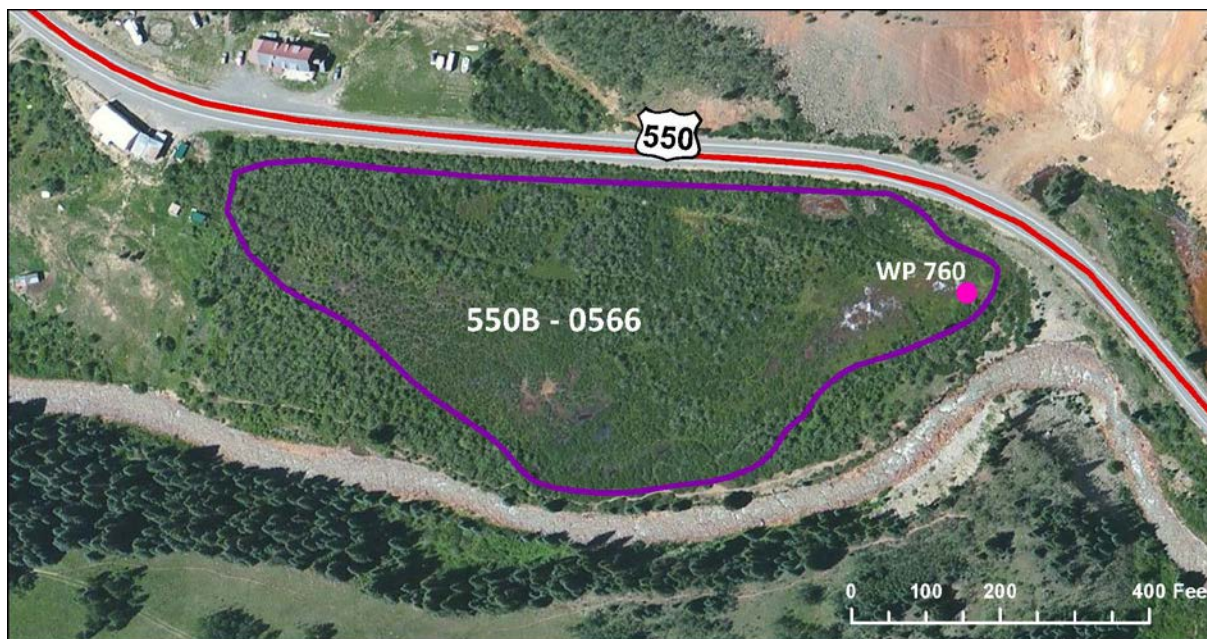
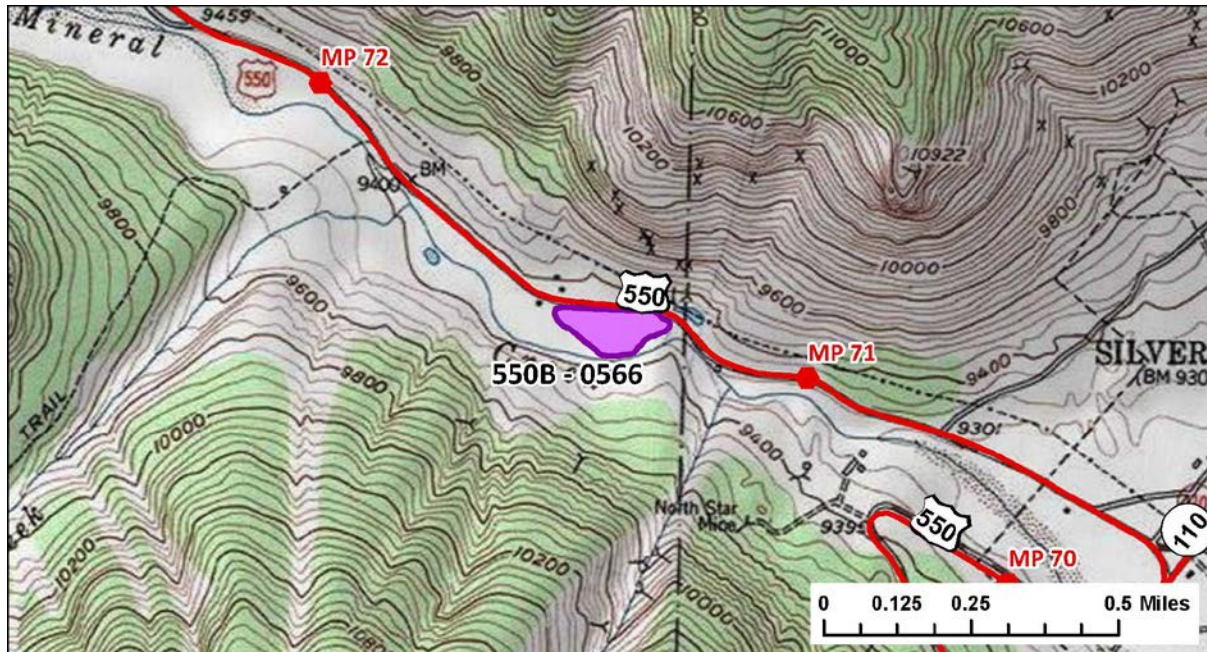
Proximity to Hwy: <5 m (16 ft)

Elevation: 9,383 ft

Size: 6.70 acres

ROW Status: Within ROW/Public Easement

Primary Landowners: Polygon lies at the intersection of San Juan National Forest, private property, and BLM land



Description: Area fenced off; extracted soil core in highway ROW with 35-40cm OM. Abundant *Sphagnum* in area. Area a confirmed fen by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
B EGL	<i>Betula glandulosa</i>	6	17.5
PIEN	<i>Picea engelmannii</i>	3	1.5
SAMO2	<i>Salix monticola</i>	3	1.5

Fen Polygon: 550B - 0571

Nearest Milepoint: US 550, MP 73

Location: Adjacent to South Fork Mineral Creek

Surveyed Date: 8/28/2016

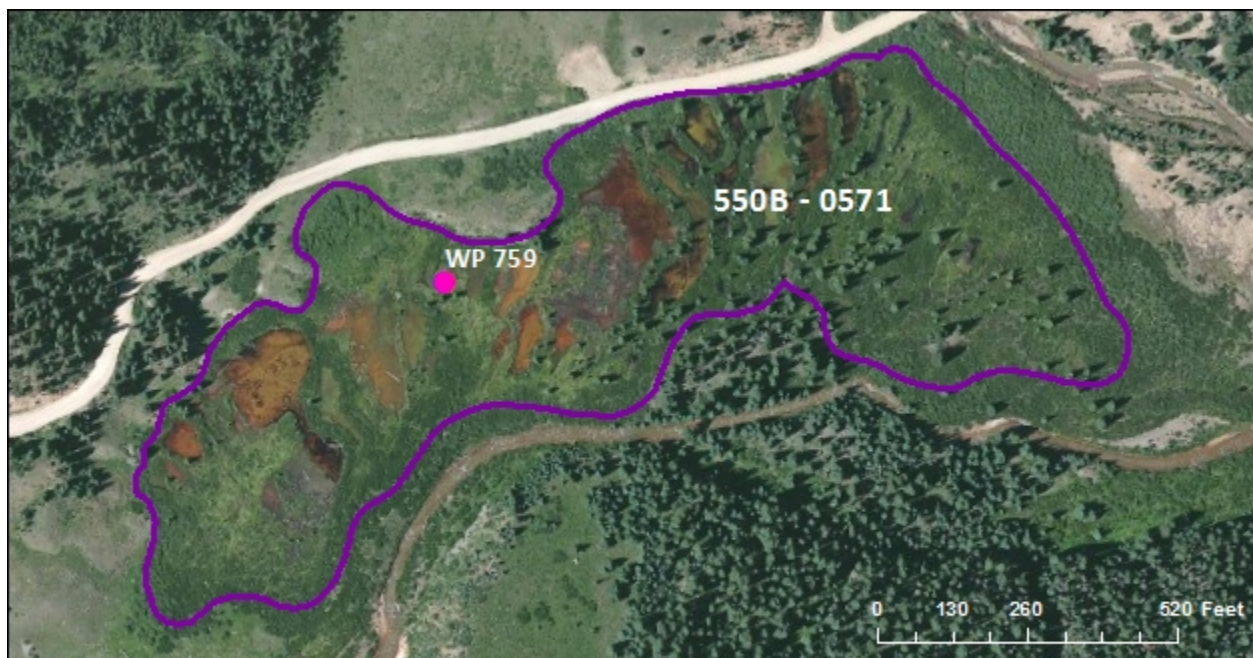
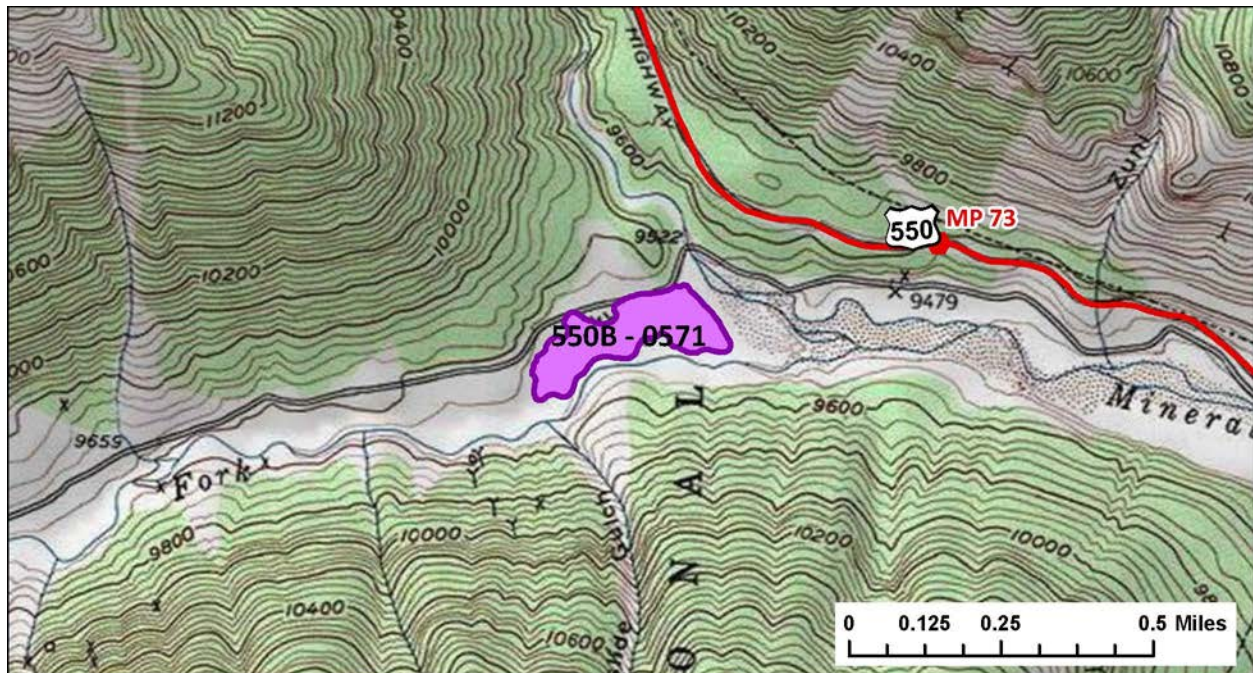
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,524 ft

Size: 16.71 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large iron fen with ponds and standing water on site, adjacent to dirt road. Dominated by *Betula* and *Carex* species.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
BEGL	<i>Betula glandulosa</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
CACA11	<i>Carex canescens</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	4	3.5
VASC	<i>Vaccinium scoparium</i>	2	0.5

Fen Polygon: 550B - 0574

Nearest Milepoint: US 550, MP 75

Location: Adjacent to Mineral Creek

Surveyed Date: 8/28/2016

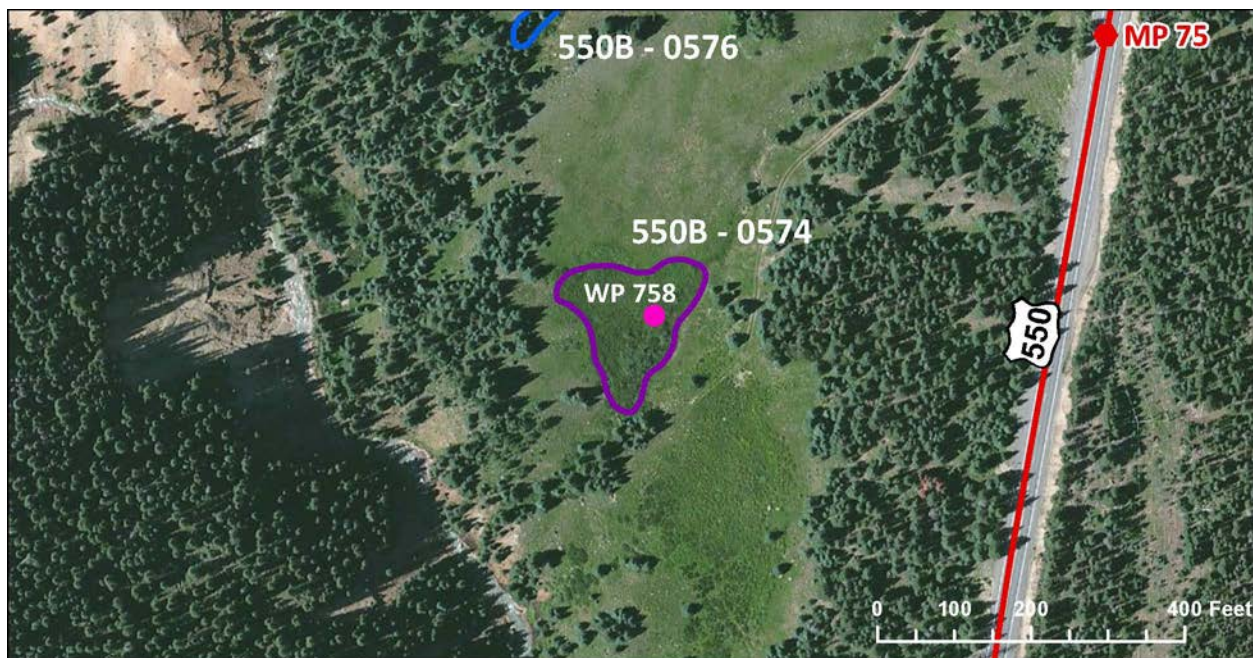
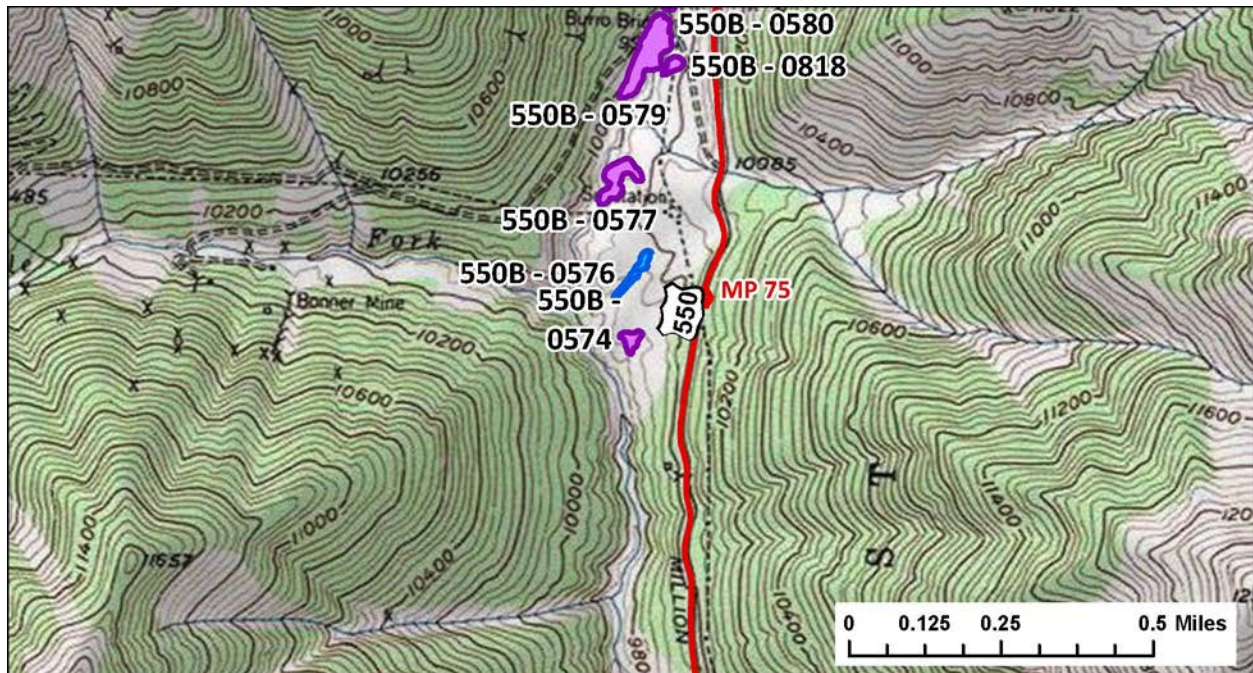
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,905 ft

Size: 0.48 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Gently sloping fen, upslope from Mineral Creek. Area shrubby with *Salix planifolia*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	6	17.5
B EGL	<i>Betula glandulosa</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	4	3.5
SETR	<i>Senecio triangularis</i>	3	1.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	1	0.1

Fen Polygon: 550B - 0577

Nearest Milepoint: US 550, MP 75

Location: Adjacent to Mineral Creek

Surveyed Date: N/A

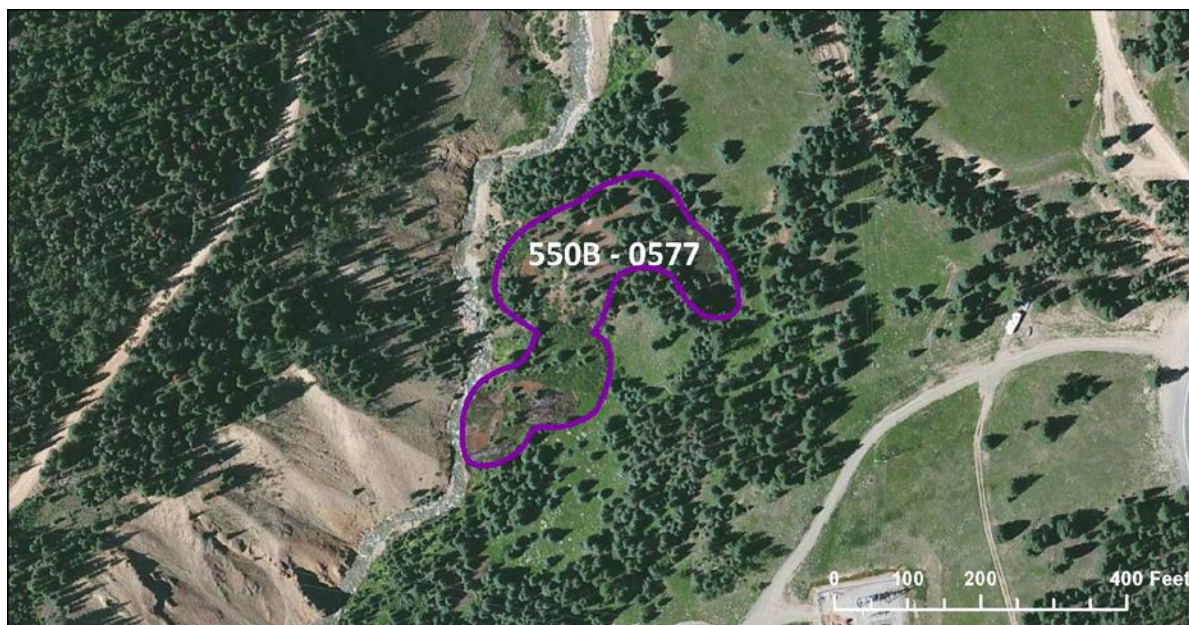
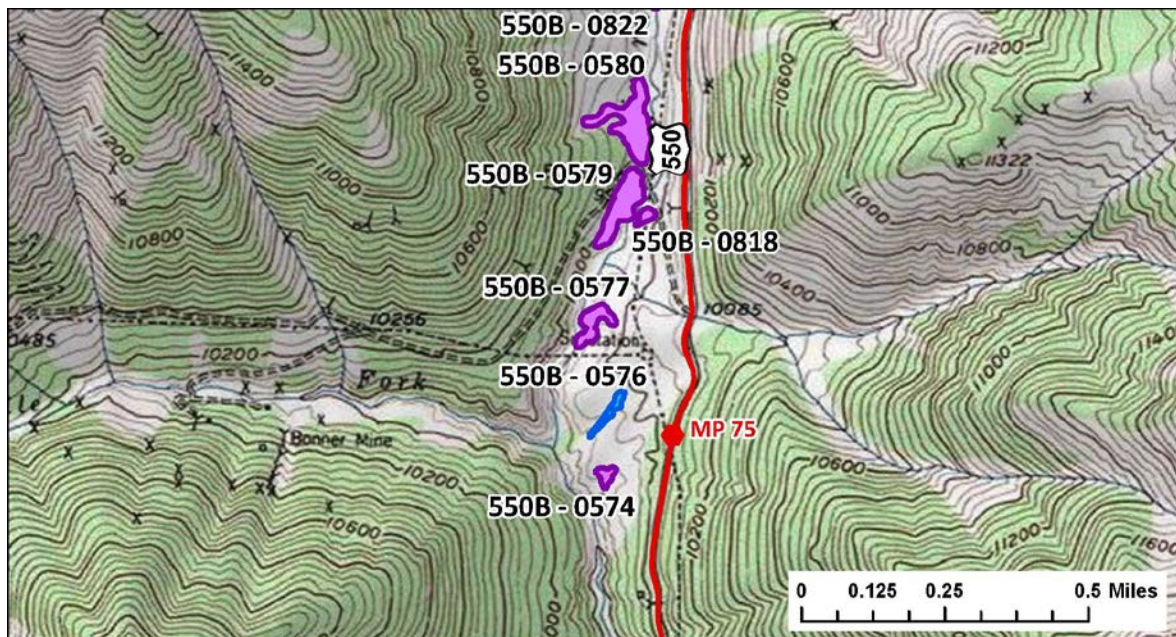
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,925 ft

Size: 1.53 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0579

Nearest Milepoint: US 550, MP 75

Location: Adjacent to Mineral Creek and Ophir Pass Road

Surveyed Date: 8/28/2016

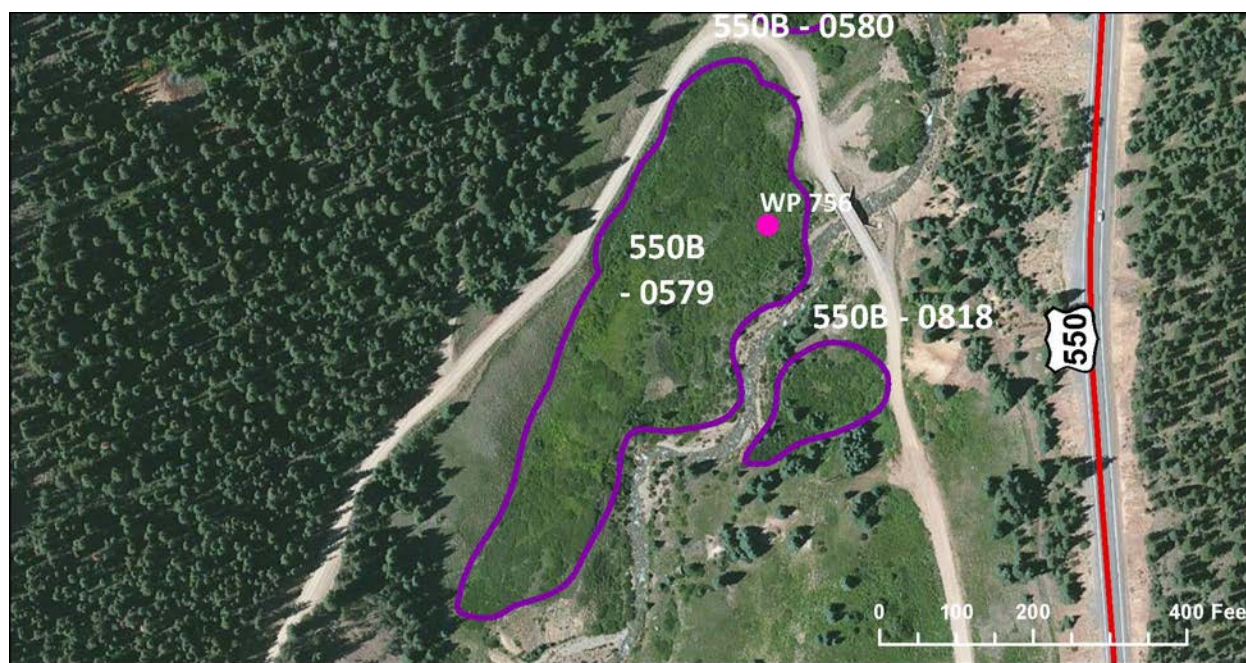
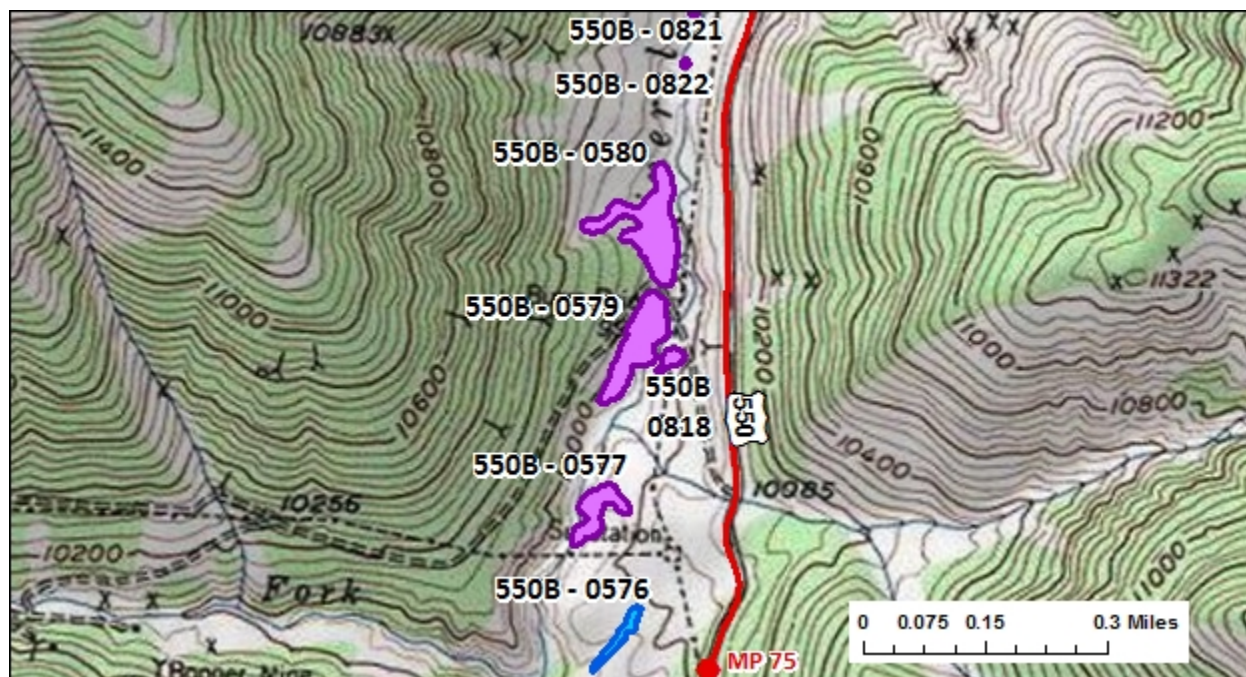
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,033 ft

Size: 3.13 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Very shrubby, large fen. West of Mineral Creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	8	62.5
CAUT	<i>Carex utriculata</i>	6	17.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	4	3.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
CAST36	<i>Calamagrostis stricta</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	1	0.1
GERI	<i>Geranium richardsonii</i>	1	0.1
HILA5	<i>Hippochaete laevigata</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1

Fen Polygon: 550B - 0580

Nearest Milepoint: US 550, MP 76

Location: Adjacent to Mineral Creek and Ophir Pass Road

Surveyed Date: 8/28/2016

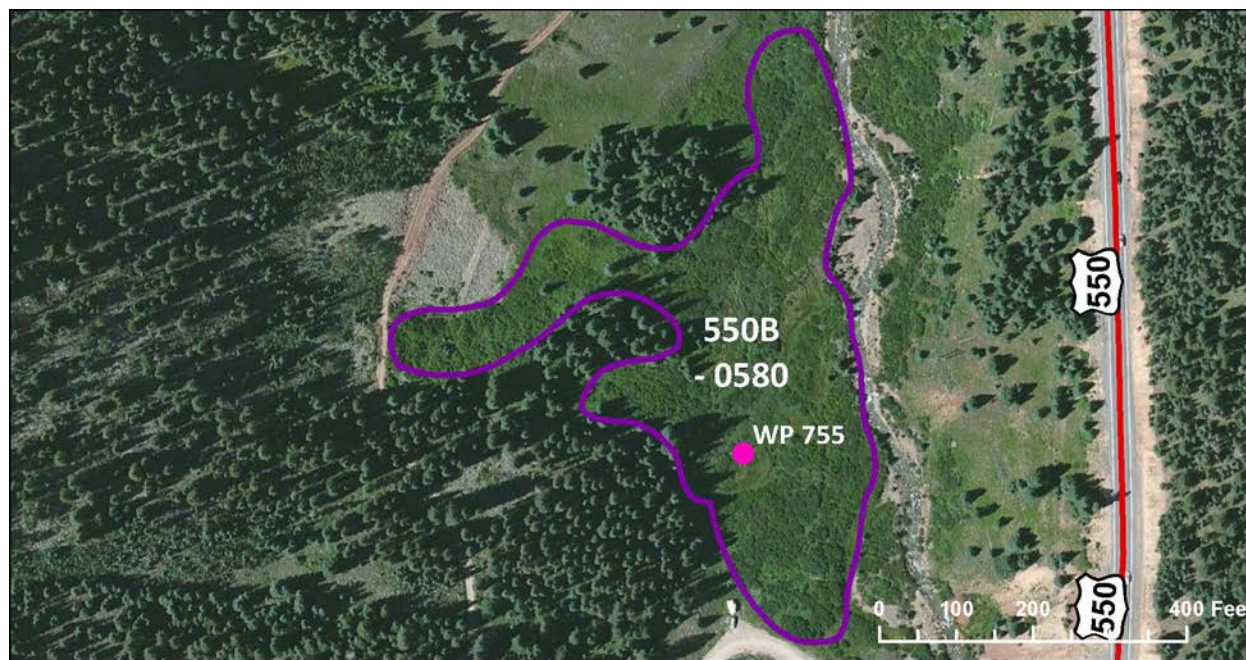
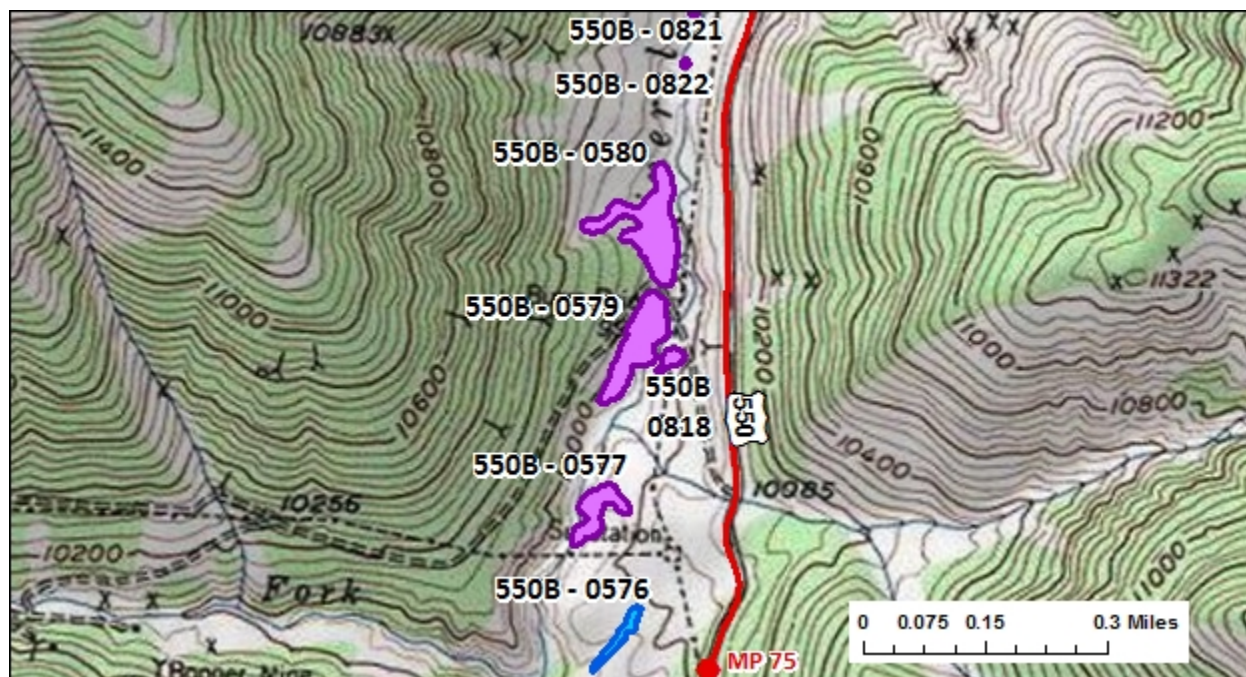
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,056 ft

Size: 4.19 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large fen west of Mineral Creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	8	62.5
CACA4	<i>Calamagrostis canadensis</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
CACA11	<i>Carex canescens</i>	4	3.5
CACO6	<i>Cardamine cordifolia</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
EPILO	<i>Epilobium</i>	3	1.5
RAHYI	<i>Ranunculus hyperboreus ssp. intertextus</i>	3	1.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5
GEMAP	<i>Geum macrophyllum var. perincisum</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	2	0.5
VEAM2	<i>Veronica americana</i>	1	0.1

Fen Polygon: 550B - 0582

Nearest Milepoint: US 550, MP 76

Location: Adjacent to Mineral Creek

Surveyed Date: 8/28/2016

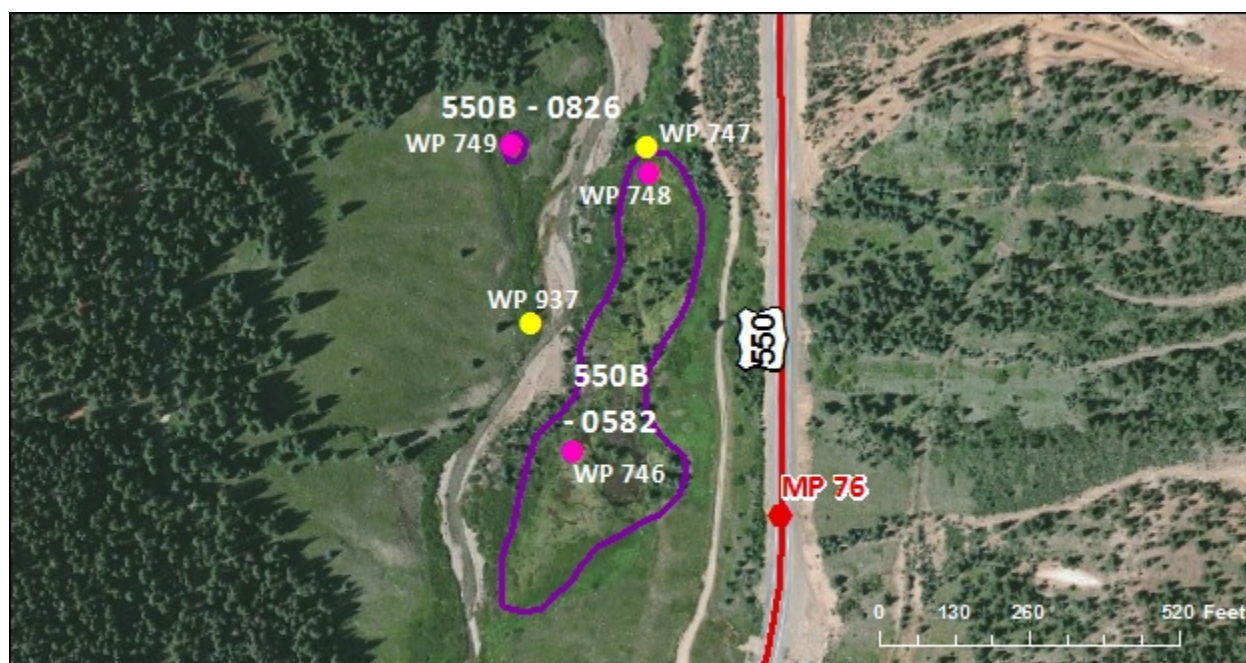
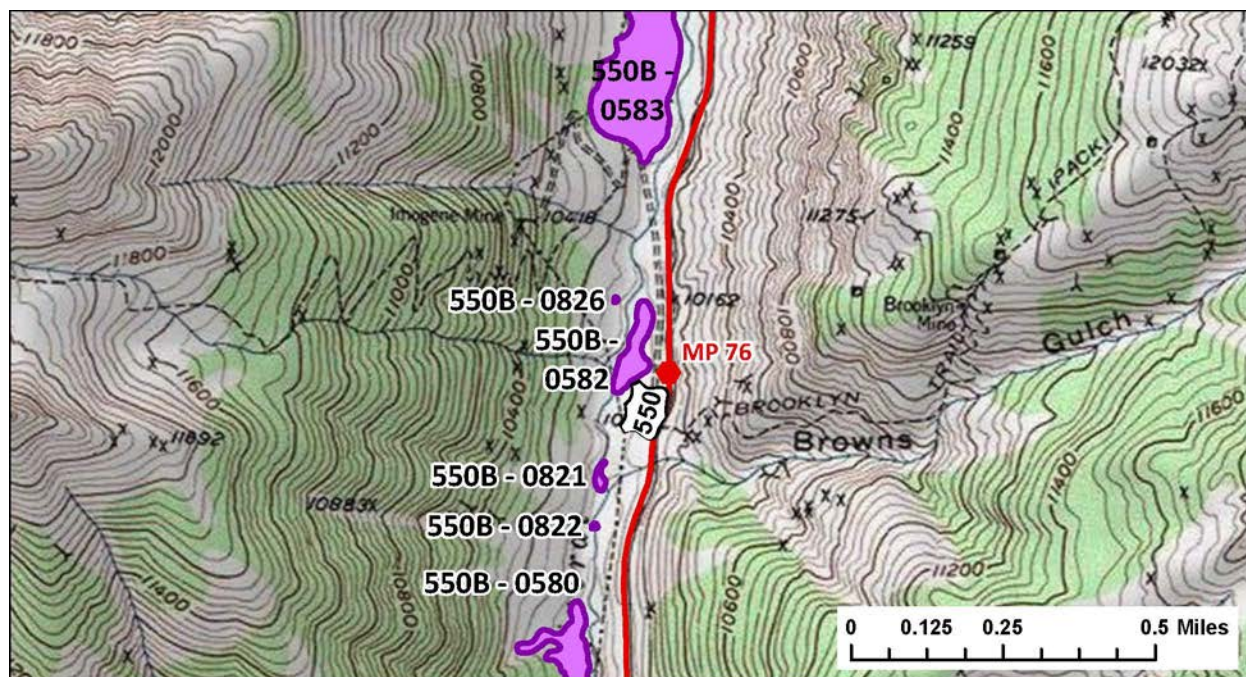
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,118 ft

Size: 2.91 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large fen adjacent to dirt road. Pools and standing water within polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	6	17.5
CAUT	<i>Carex utriculata</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5
PIEN	<i>Picea engelmannii</i>	5	7.5
VASC	<i>Vaccinium scoparium</i>	5	7.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	4	3.5

Fen Polygon: 550B - 0583

Nearest Milepoint: US 550, MP 77

Location: Adjacent to Mineral Creek

Surveyed Date: 8/28/2016

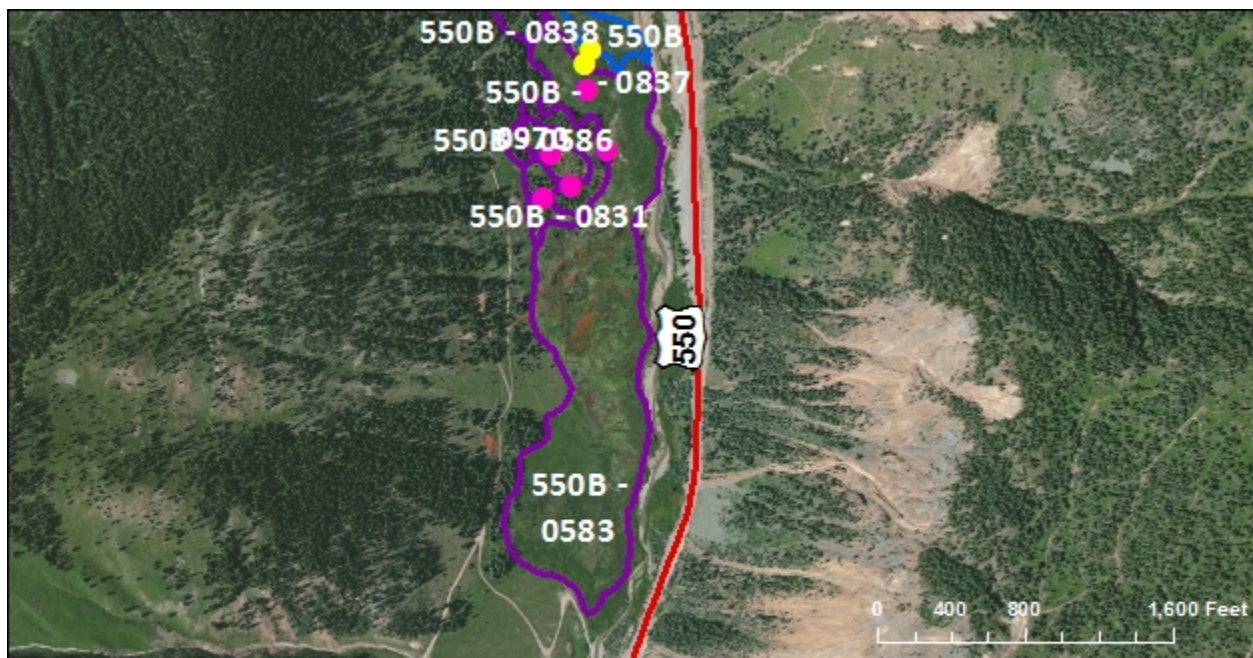
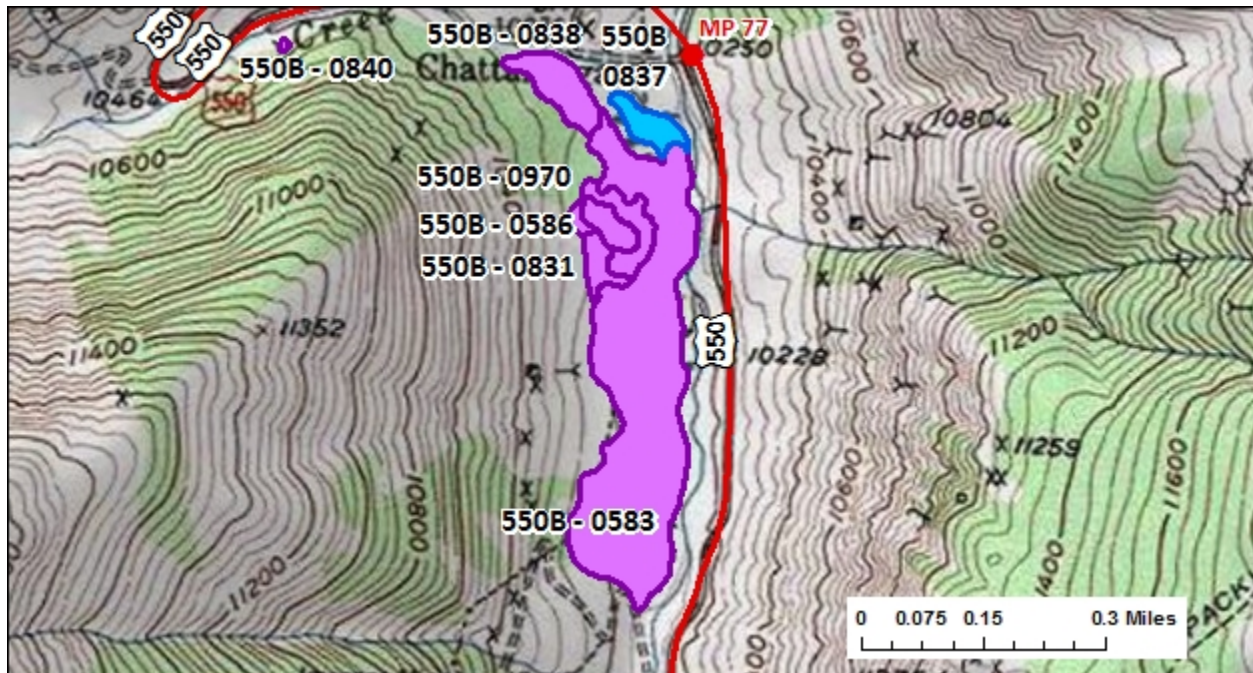
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,213 ft

Size: 34.20 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Fen within larger wetland complex, just west of creek. Shrubby, with abundant *Betula glandulosa*. Saturated, but not with deep standing water.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
BEGL	<i>Betula glandulosa</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5

Fen Polygon: 550B - 0586

Nearest Milepoint: US 550, MP 77

Location: Adjacent to Mineral Creek

Surveyed Date: 8/28/2016

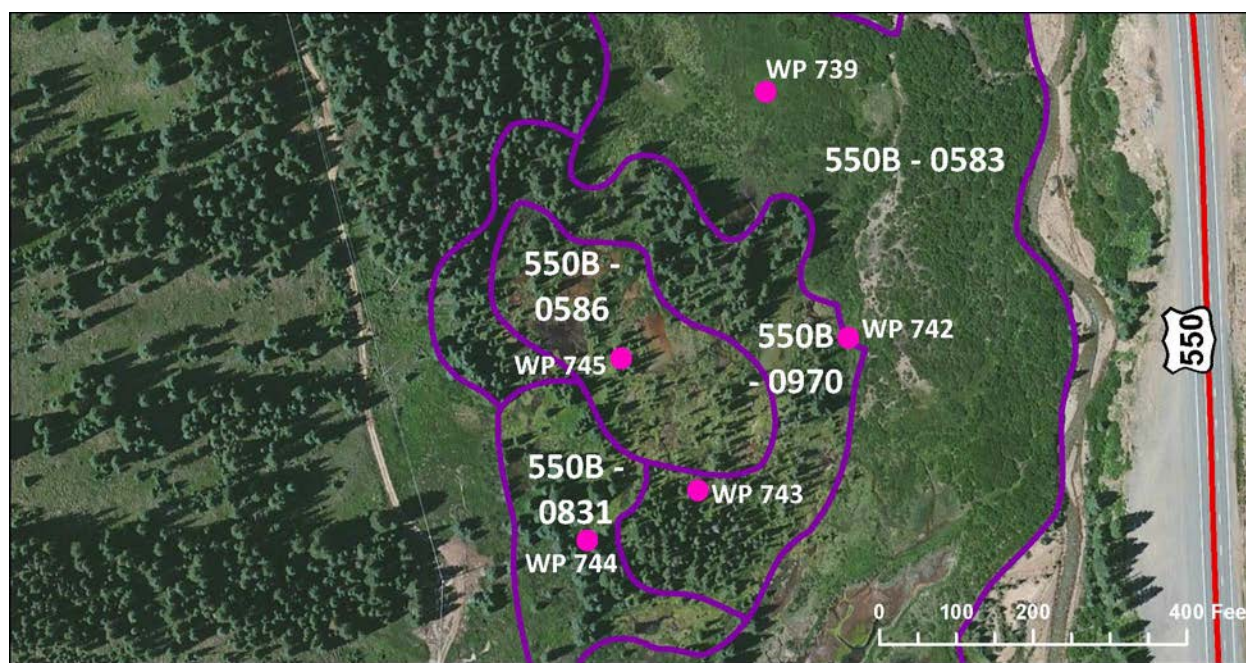
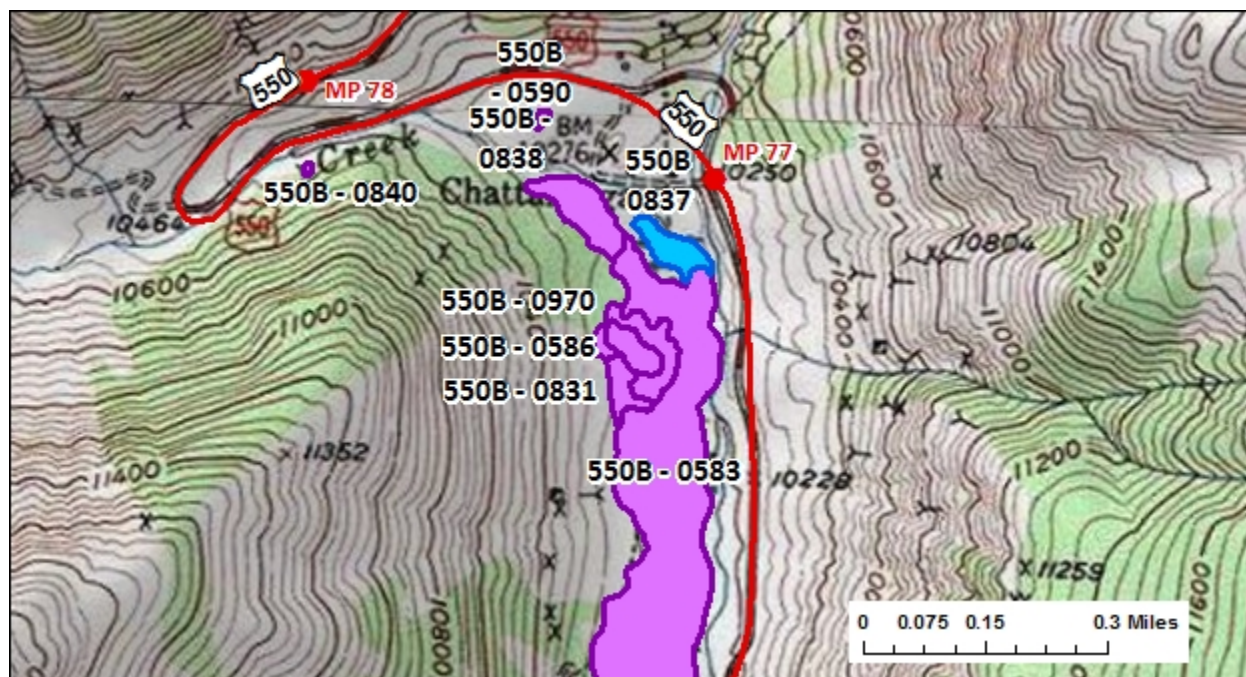
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,272 ft

Size: 1.60 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: West of Mineral Creek, part of larger fen complex. Mostly *Betula glandulosa* and *Carex aquatilis* cover.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
B EGL	<i>Betula glandulosa</i>	7	37.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	6	17.5
DECE	<i>Deschampsia cespitosa</i>	5	7.5

Fen Polygon: 550B - 0590

Nearest Milepoint: US 550, MP 77

Location: Near Mill Creek

Surveyed Date: 8/28/2016

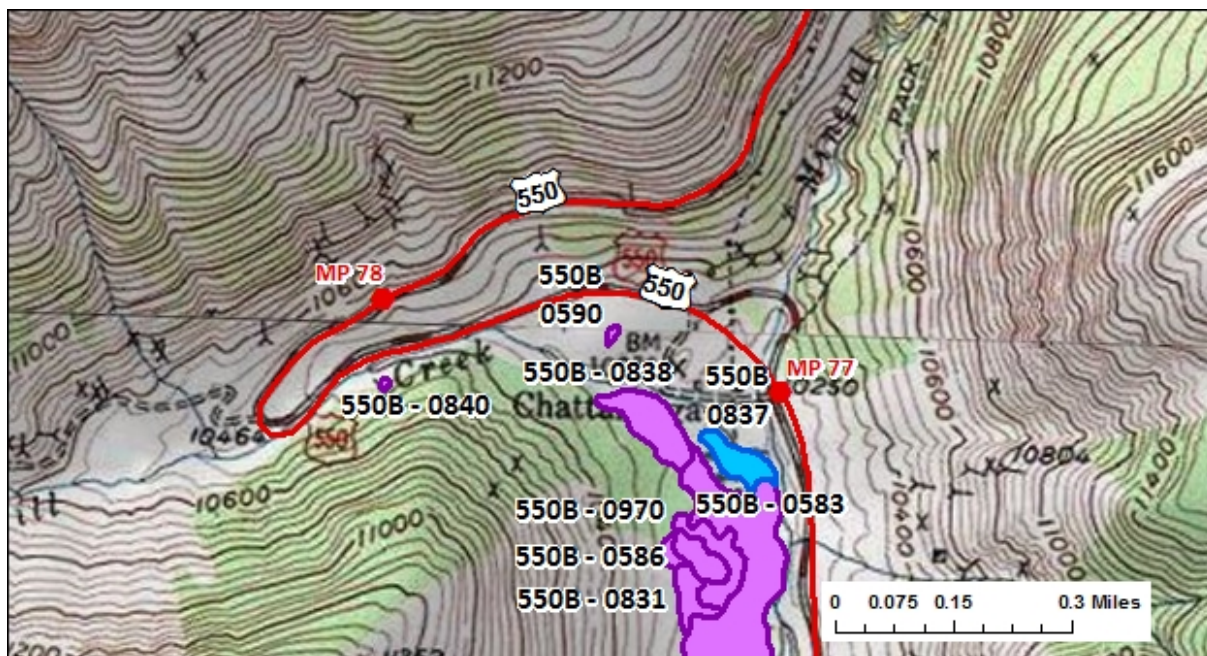
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 10,361 ft

Size: 0.16 acres

ROW Status: Private land exists between polygon and highway. Contiguous to wetlands within ROW

Primary Landowners: San Juan National Forest



Description: Small fen in depression, adjacent to creek. Part of much larger wetland complex.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	7	37.5
CACA11	<i>Carex canescens</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
EPILO	<i>Epilobium</i>	4	3.5
SAPL2	<i>Salix planifolia</i>	4	3.5
F-ASTER	<i>Asteraceae</i>	3	1.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	3	1.5
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	2	0.5

Fen Polygon: 550B - 0591

Nearest Milepoint: US 550, MP 79

Location: Adjacent to Bullion King Road

Surveyed Date: 8/27/2016

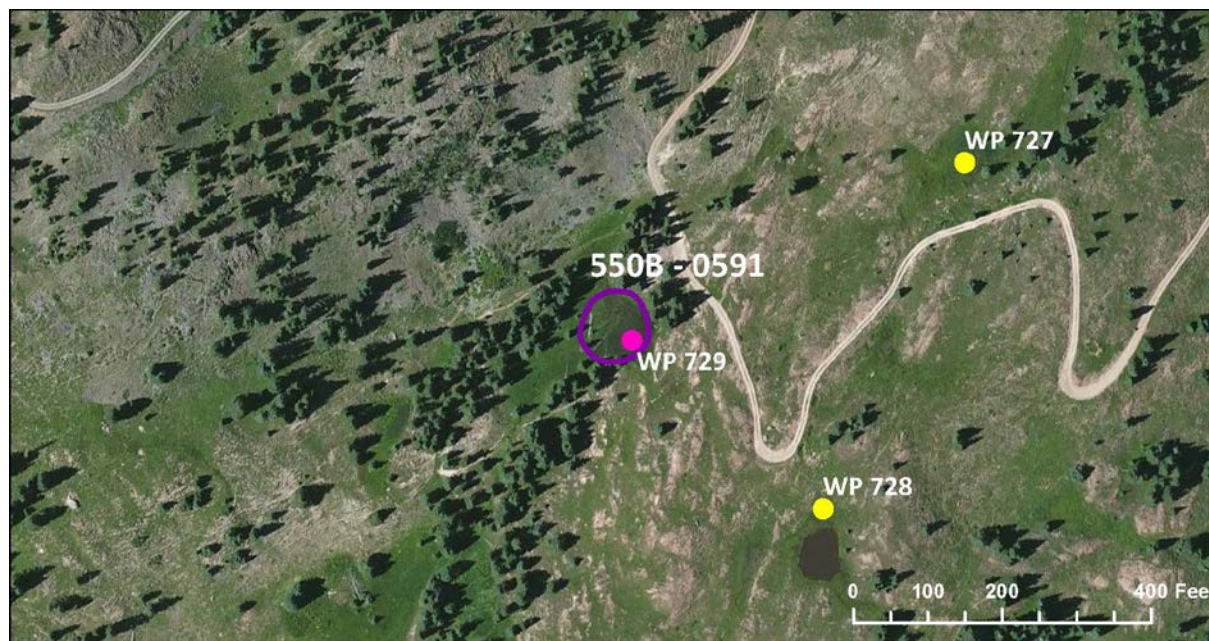
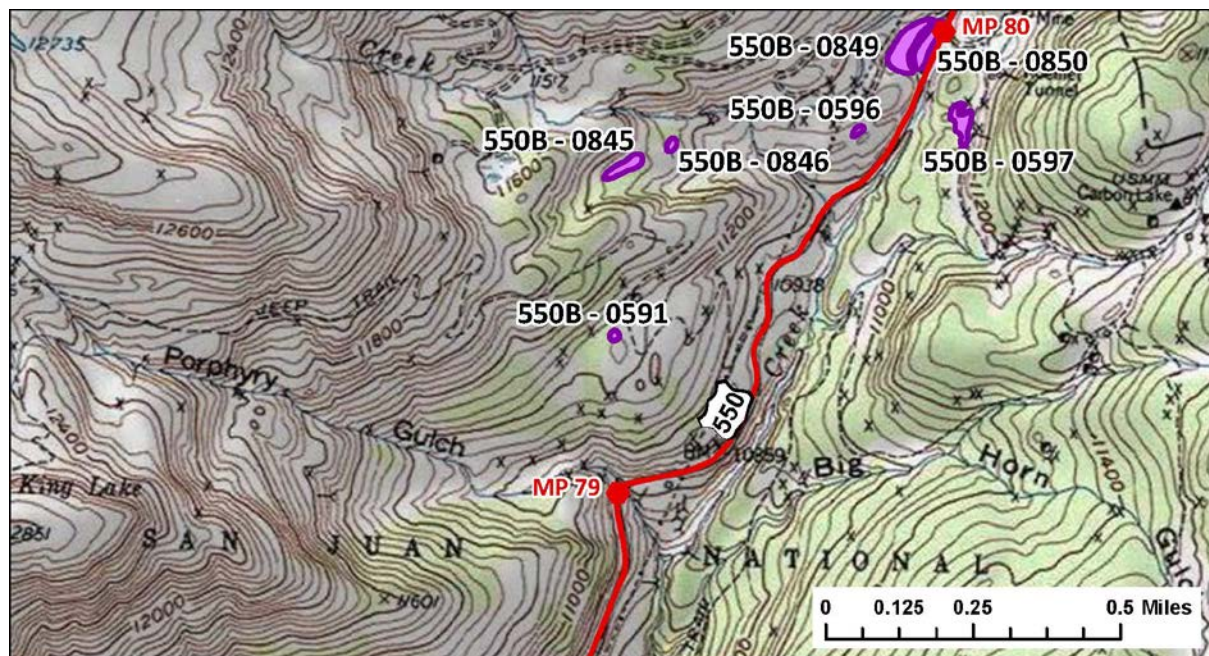
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,253 ft

Size: 0.16 acres

ROW Status: Private land exists between polygon and highway. Contiguous to wetlands within ROW

Primary Landowners: San Juan National Forest



Description: Small fen in a depression. Dominated by *Carex* species, spruce trees on edges. Located adjacent to gravel road, and near private property.

Site Photos



Site Photos

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
SETR	<i>Senecio triangularis</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
CACA4	<i>Calamagrostis canadensis</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1

Fen Polygon: 550B - 0596

Nearest Milepoint: US 550, MP 80

Location: Near Black Bear Pass Road

Surveyed Date: 8/27/2016

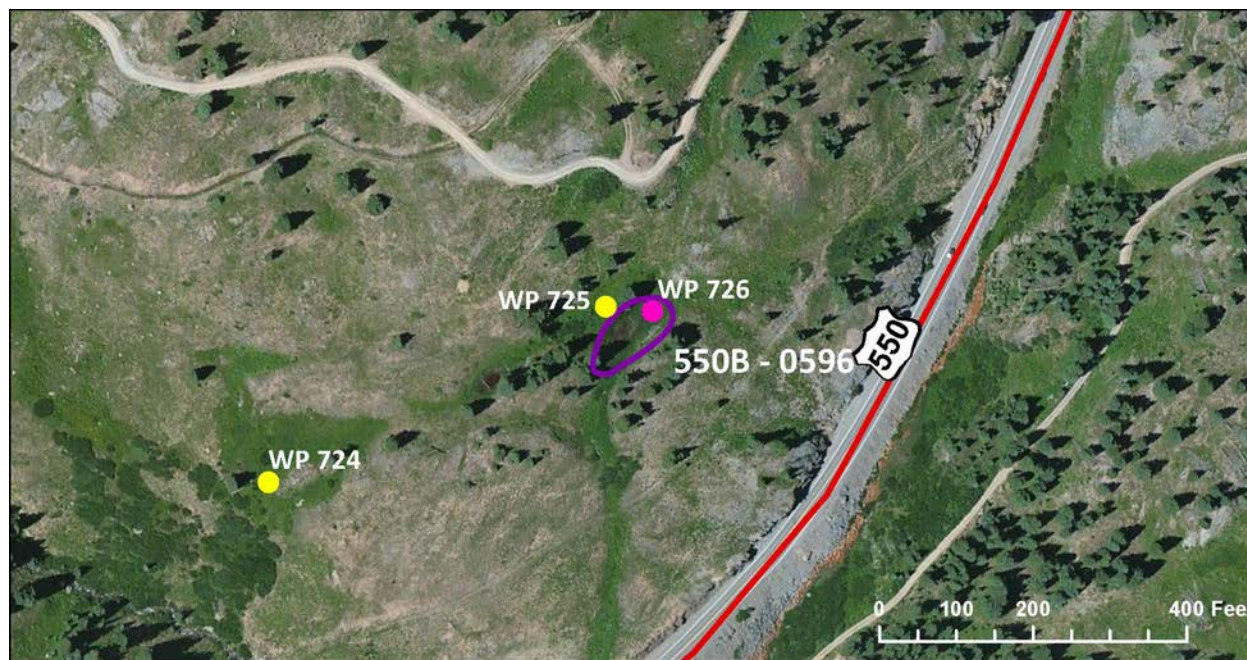
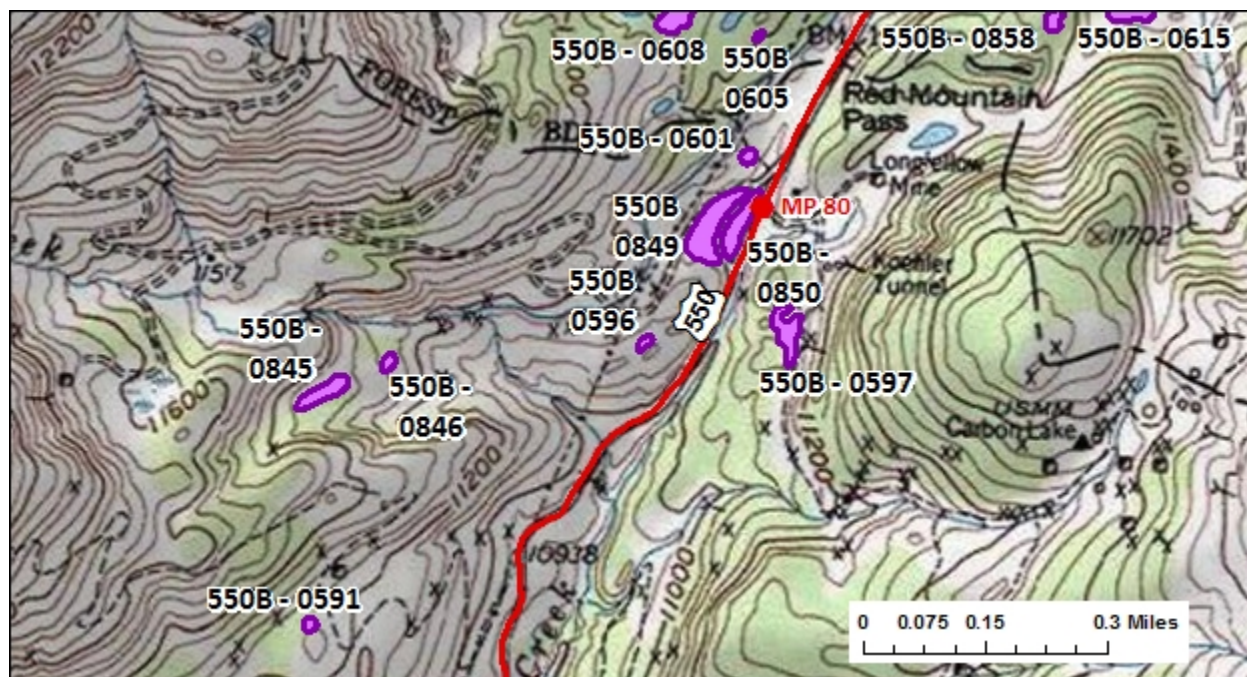
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 11,122 ft

Size: 0.14 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: *Carex* dominated fen on side of pond in depression.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
CALAM	<i>Calamagrostis</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	5	7.5
SETR	<i>Senecio triangularis</i>	4	3.5
CANO3	<i>Carex nova</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	3	1.5
MECI3	<i>Mertensia ciliata</i>	3	1.5
PSLE	<i>Psychrophila leptosepala</i>	3	1.5
CAIL	<i>Carex illota</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5

Fen Polygon: 550B - 0597

Nearest Milepoint: US 550, MP 80

Location: Adjacent to US Basin Road

Surveyed Date: N/A

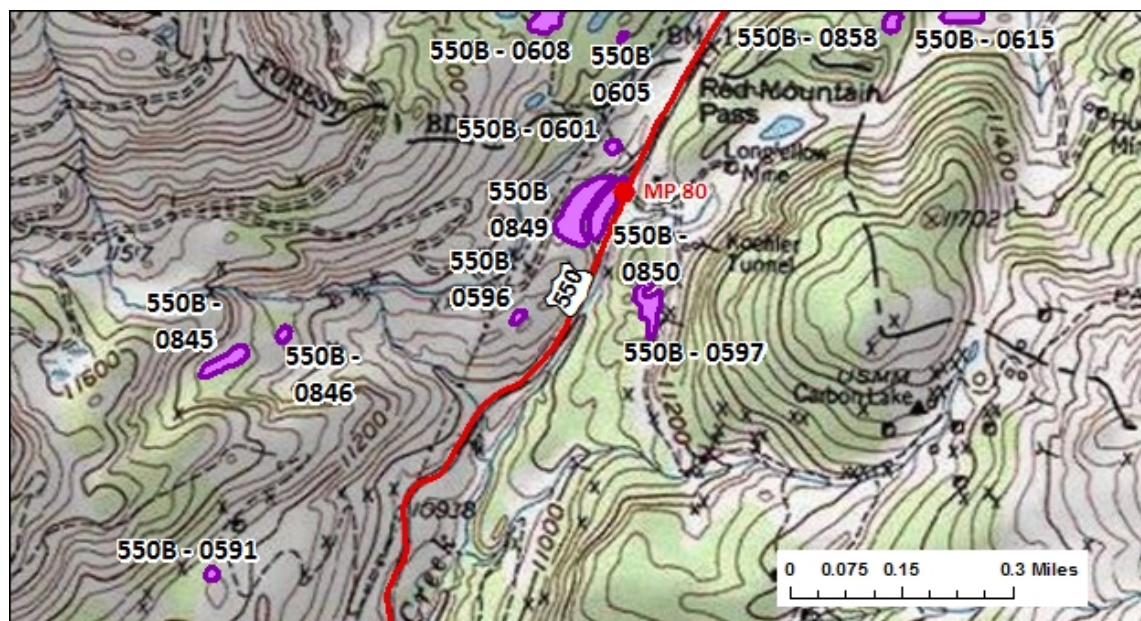
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 11,115 ft

Size: 0.91 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0601

Nearest Milepoint: US 550, MP 80

Location: Near Black Bear Pass Road

Surveyed Date: 8/27/2016

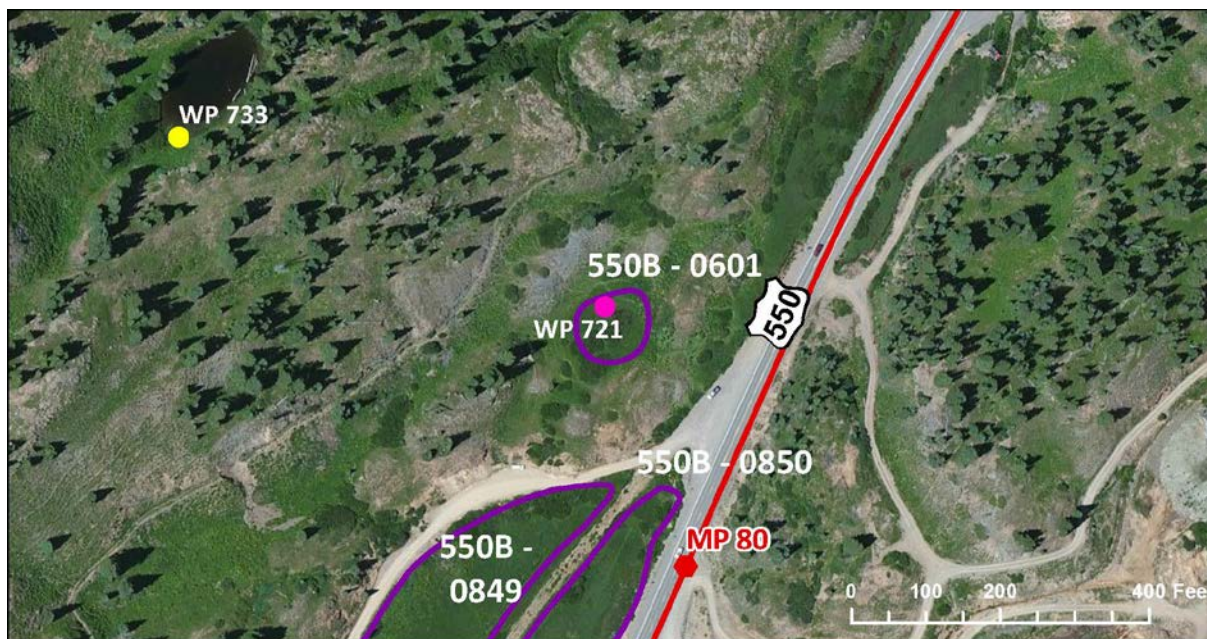
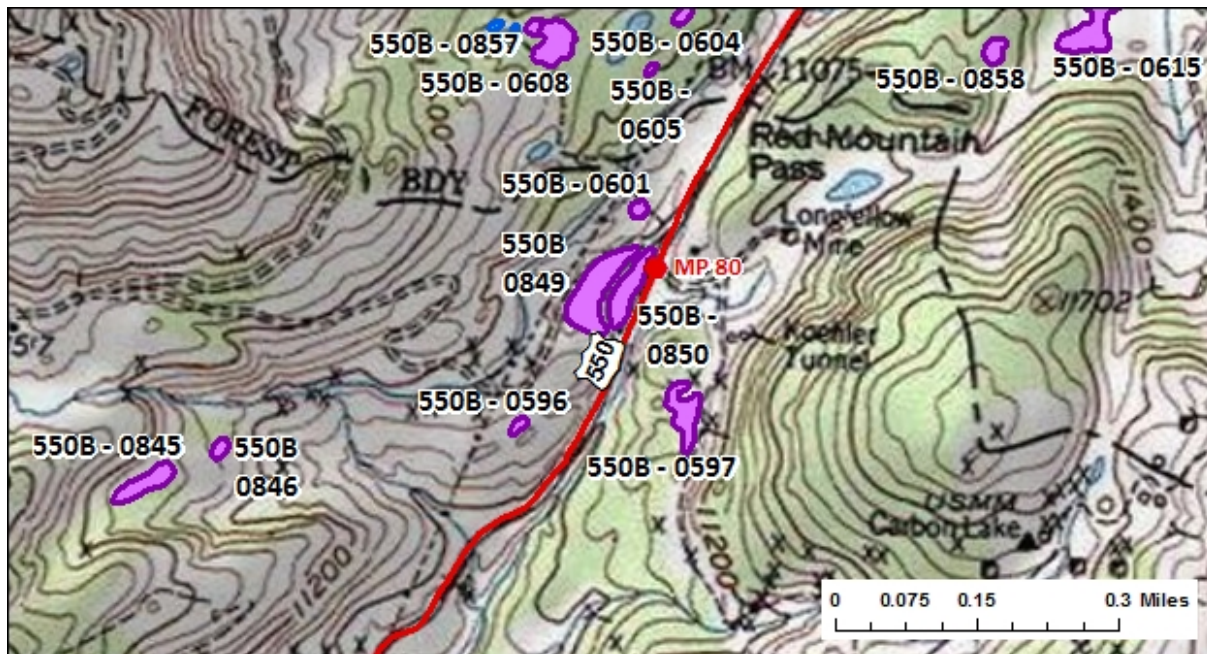
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 11,161 ft

Size: 0.17 acres

ROW Status: Private land exists between polygon and highway. Not contiguous to wetlands within ROW

Primary Landowners: San Juan National Forest



Description: Small gently sloping fen; *Carex* dominated.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5

Fen Polygon: 550B - 0604

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: 8/27/2016

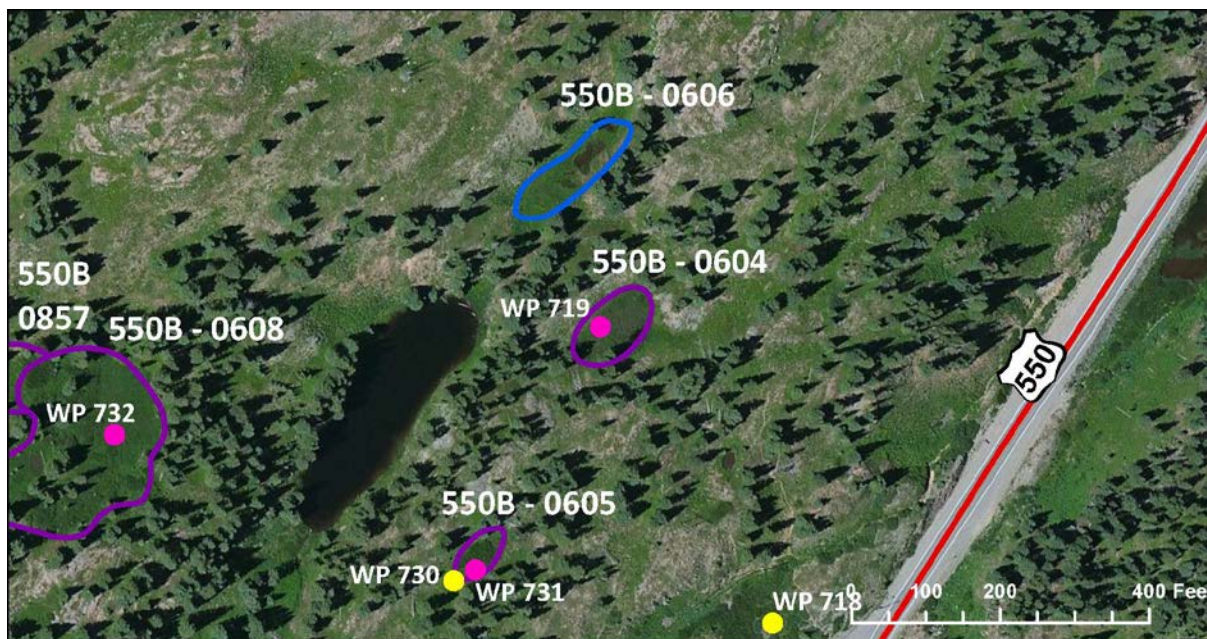
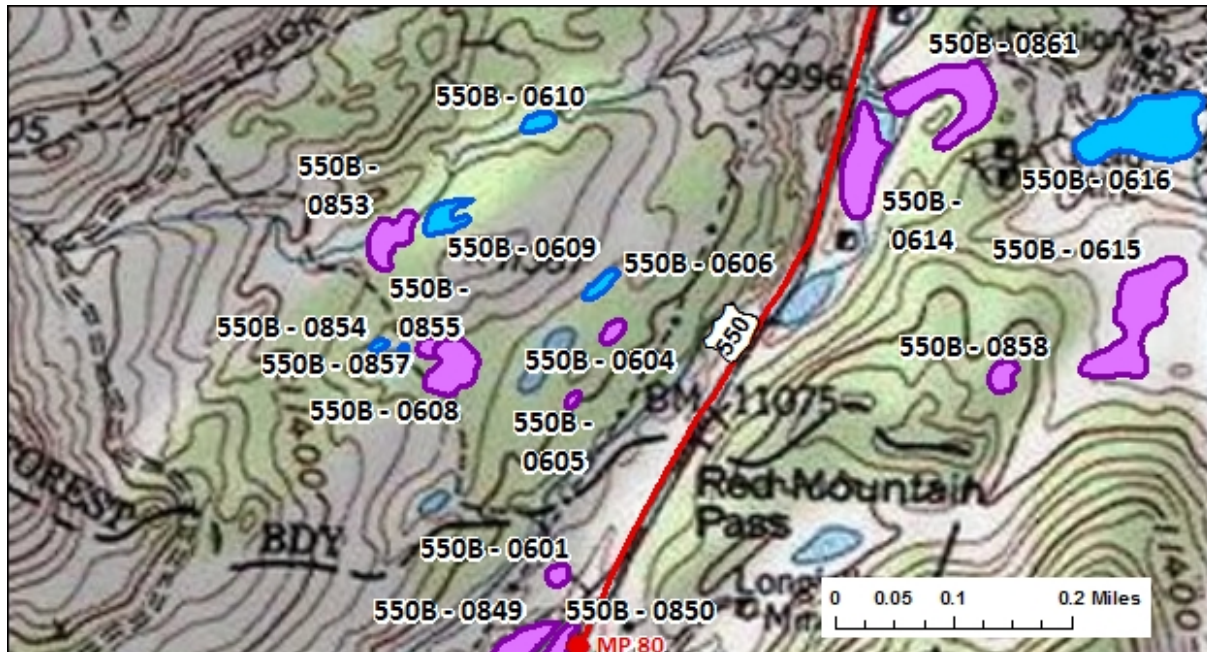
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 11,234 ft

Size: 0.17 acres

ROW Status: Private land exists between polygon and highway. Not contiguous to wetlands within ROW

Primary Landowners: Uncompahgre National Forest



Description: Small fen in a depression. *Calamagrostis* and *Carex* dominated.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	6	17.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5

Fen Polygon: 550B - 0605

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: 8/27/2016

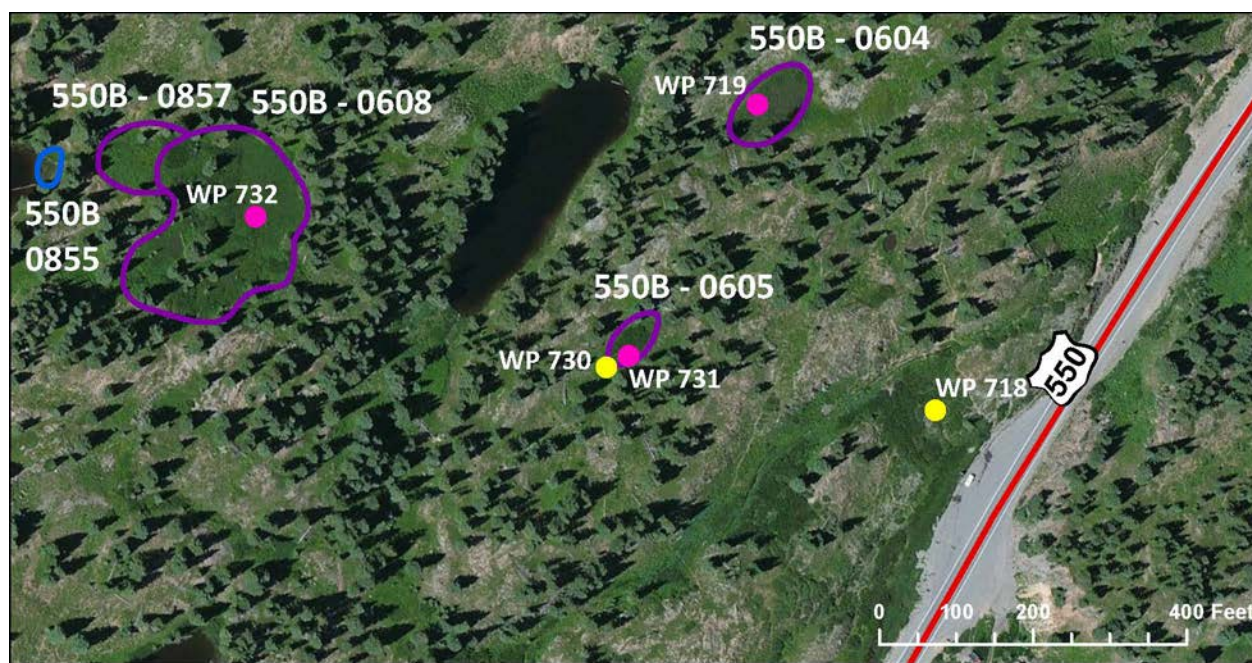
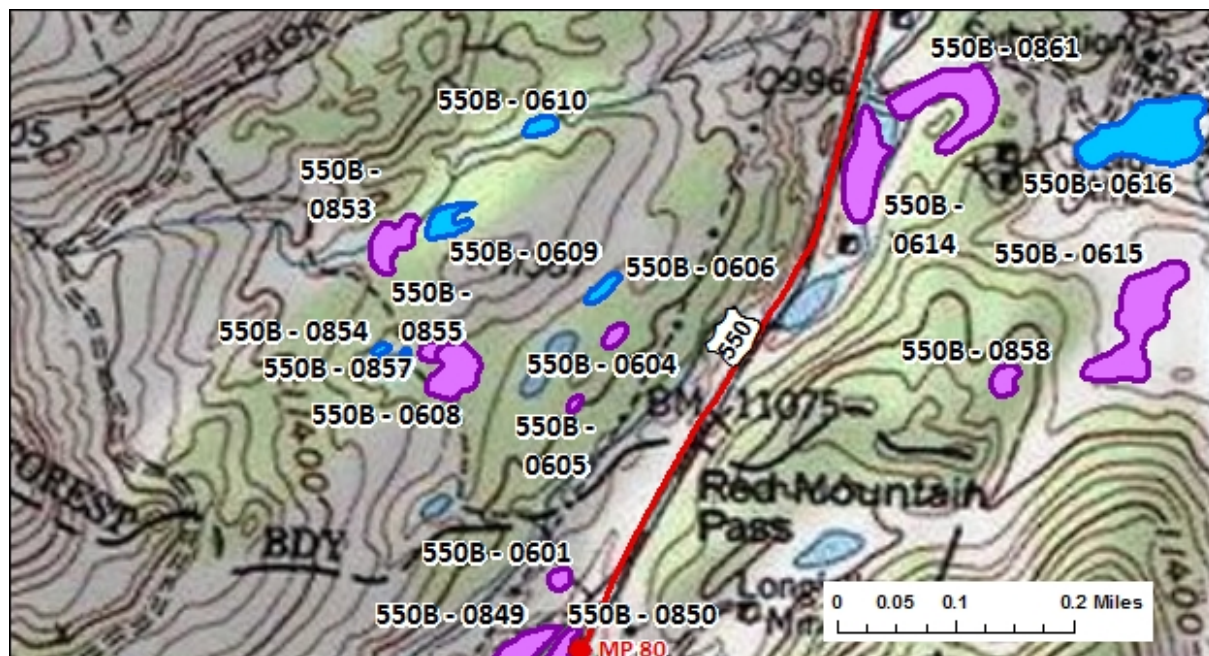
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 11,227 ft

Size: 0.07 acres

ROW Status: Private land exists between polygon and highway. Not contiguous to wetlands within ROW

Primary Landowners: Uncompahgre National Forest



Description: Small fen in a depression surrounded by *Picea* and *Salix*. *Carex aquatilis* dominated.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
CAAQ	<i>Carex aquatilis</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	5	7.5

Fen Polygon: 550B - 0608

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: 8/27/2016

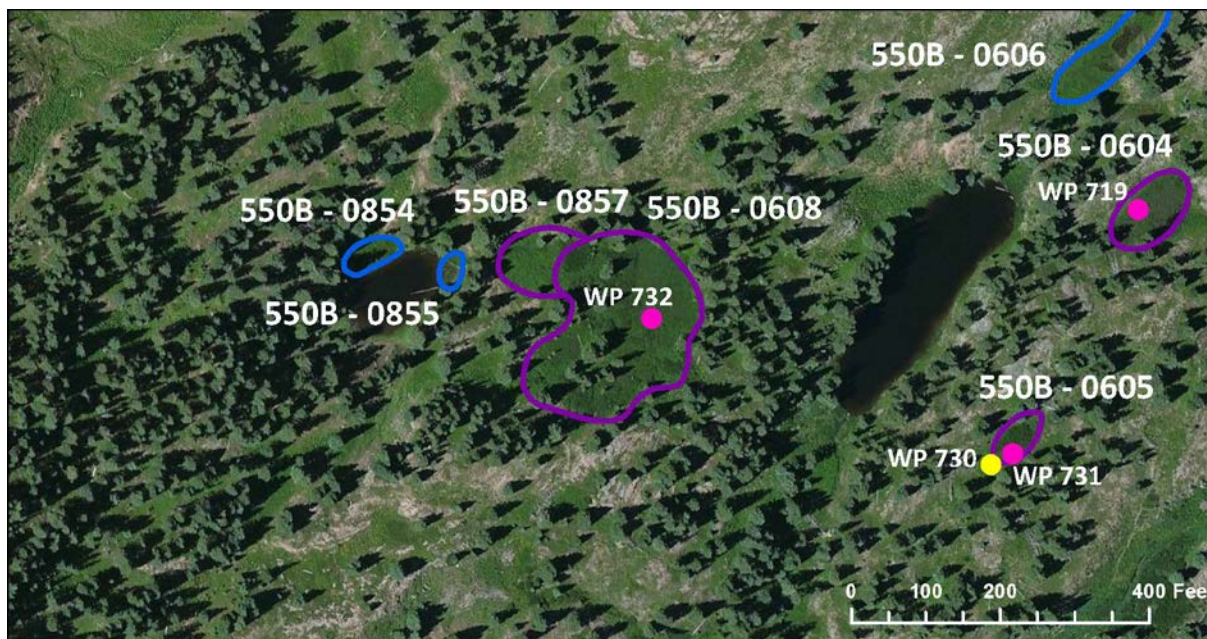
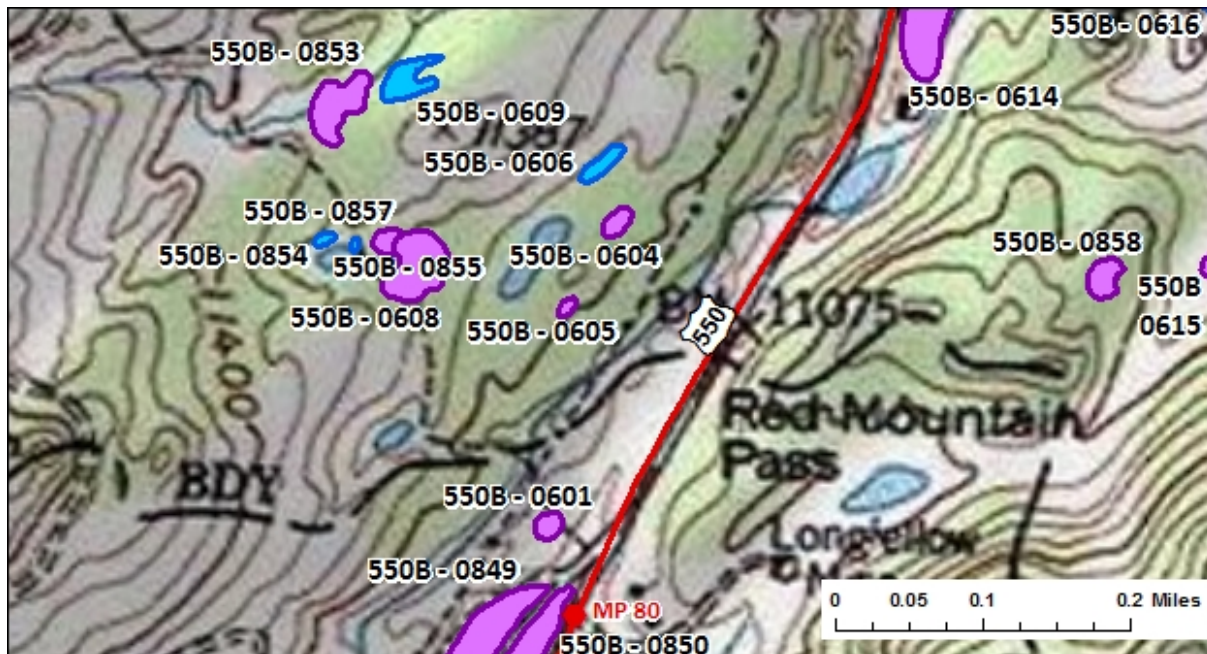
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,312 ft

Size: 0.97 acres

ROW Status: Private land exists between polygon and highway. Not contiguous to wetlands within ROW

Primary Landowners: Uncompahgre National Forest



Description: Gently sloping fen in depression surrounded by *Picea* and *Salix*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	5	7.5
CLRH2	<i>Clementsia rhodantha</i>	4	3.5
CASI2	<i>Carex simulata</i>	3	1.5
SETR	<i>Senecio triangularis</i>	3	1.5
MUFI2	<i>Muhlenbergia filiformis</i>	2	0.5
PNPA	<i>Pneumonanthe parryi</i>	2	0.5
SPRO	<i>Spiranthes romanzoffiana</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
F-ASTER	<i>Asteraceae</i>	1	0.1
GETH	<i>Gentianopsis thermalis</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
PIEN	<i>Picea engelmannii</i>	1	0.1
SWPE	<i>Swertia perennis</i>	1	0.1

Fen Polygon: 550B - 0614

Nearest Milepoint: US 550, MP 81

Location: Red Mountain Pass, near County Road 31

Surveyed Date: N/A

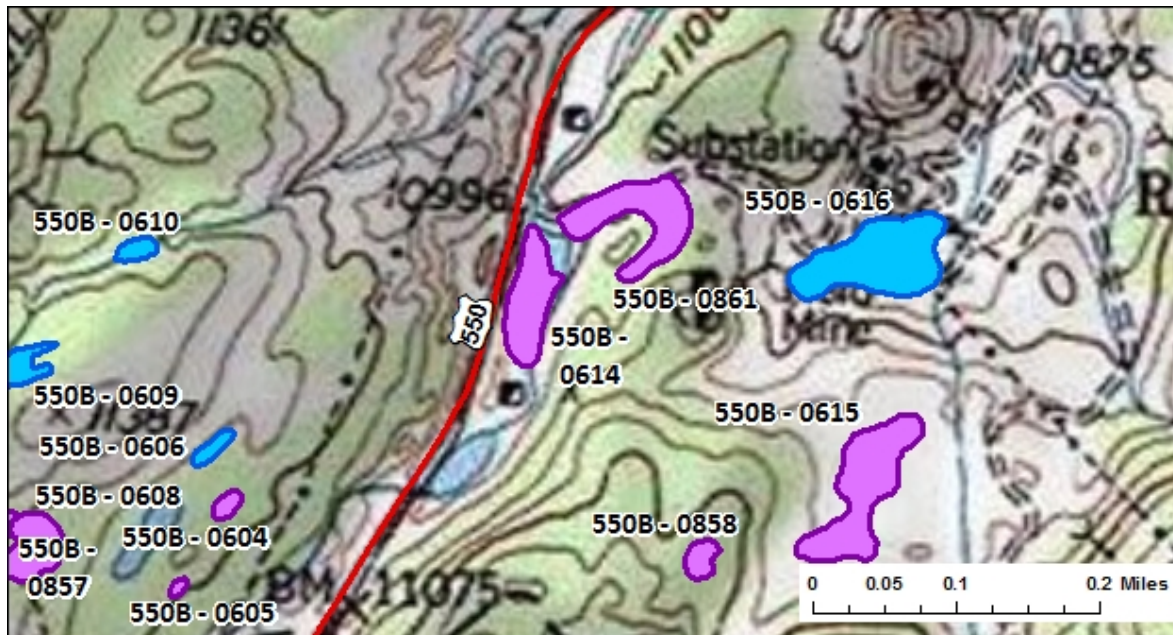
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 11,027 ft

Size: 1.42 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0615

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass, near County Road 31

Surveyed Date: N/A

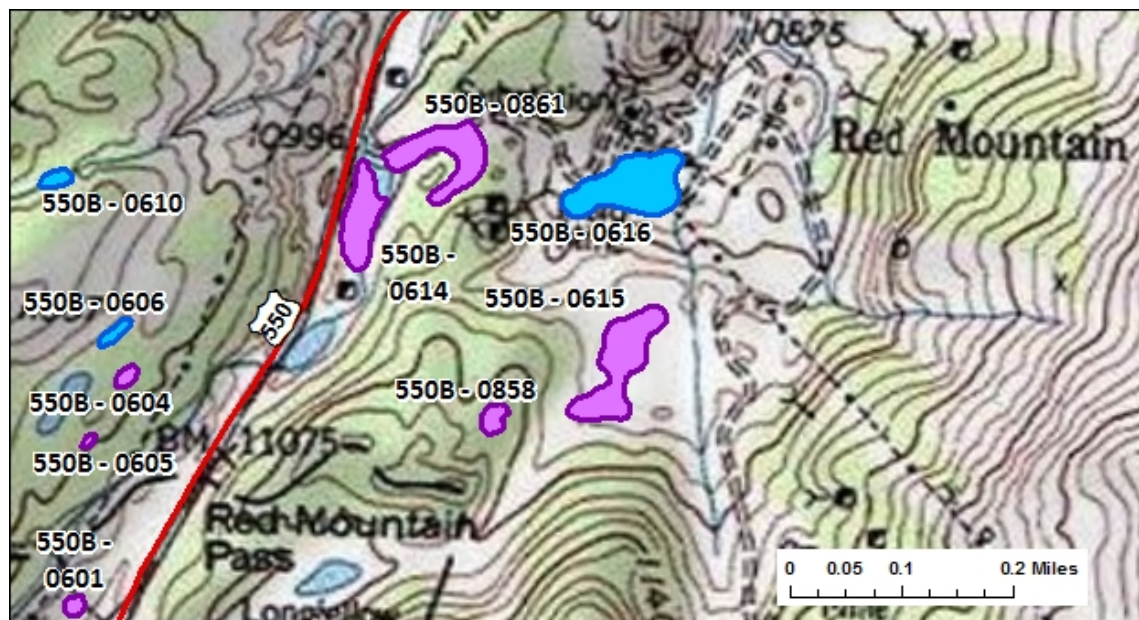
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,122 ft

Size: 2.38 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0622

Nearest Milepoint: US 550, MP 81

Location: Near the Idarado Mine

Surveyed Date: 8/27/2016

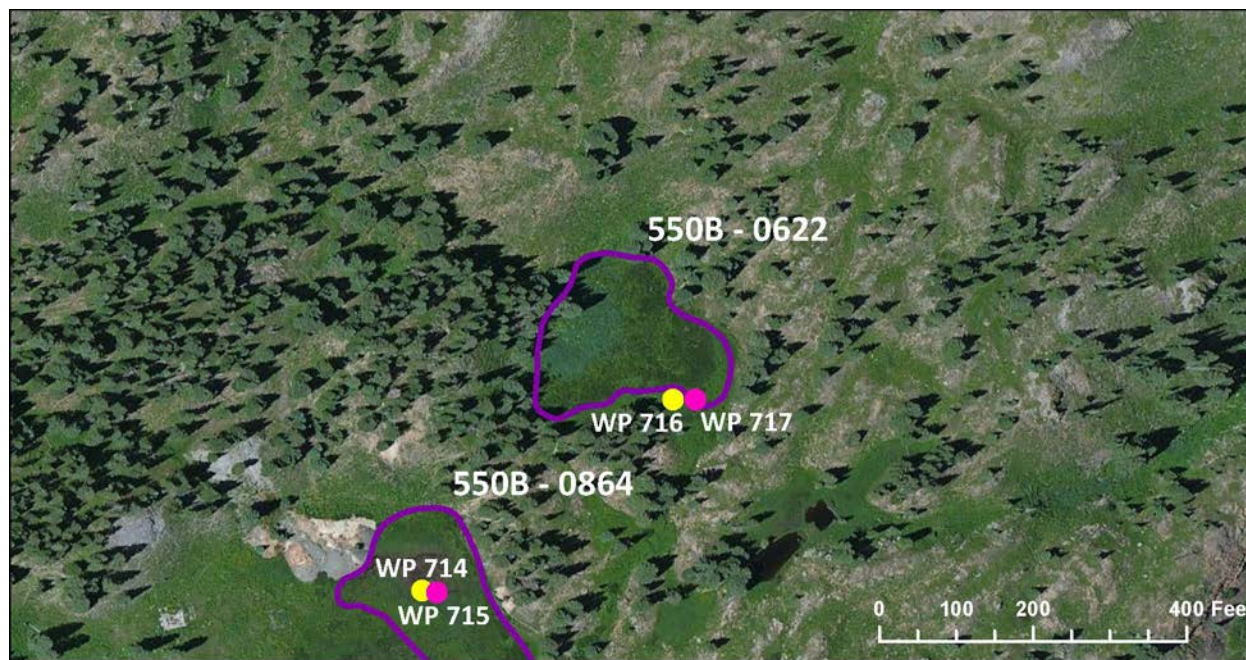
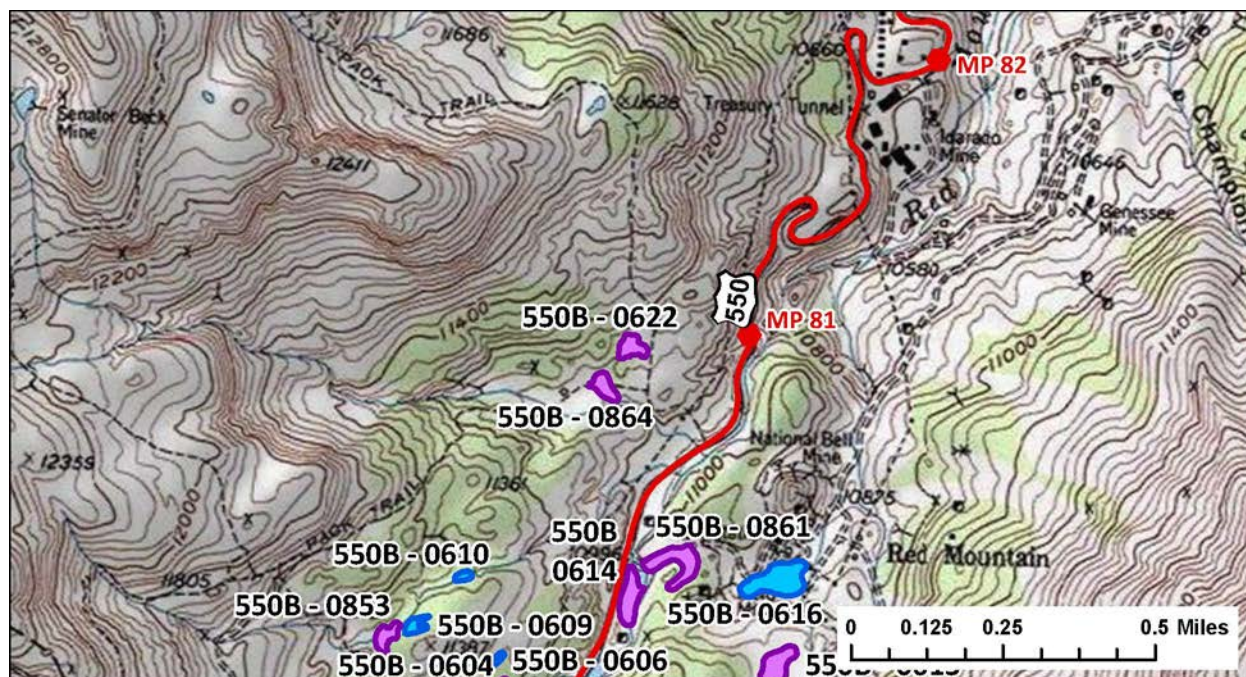
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,099 ft

Size: 0.85 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Gently sloping fen, adjacent to trail. *Carex aquatilis* dominated, with *Picea* and *Salix* on edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
PSLE	<i>Psychrophila leptosepala</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	5	7.5
SETR	<i>Senecio triangularis</i>	5	7.5
CACO6	<i>Cardamine cordifolia</i>	4	3.5
PEGR2	<i>Pedicularis groenlandica</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	1	0.1

Fen Polygon: 550B - 0627

Nearest Milepoint: US 550, MP 85

Location: Near Red Mountain Creek, below Corkscrew Gulch

Surveyed Date: 8/26/2016

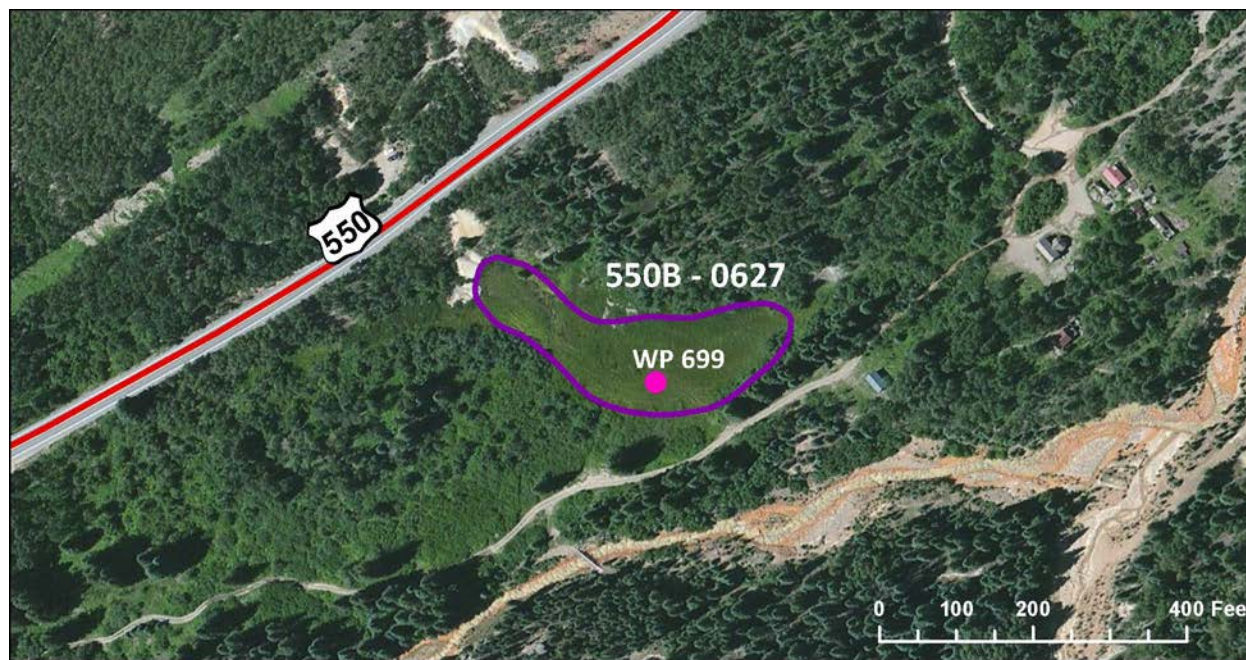
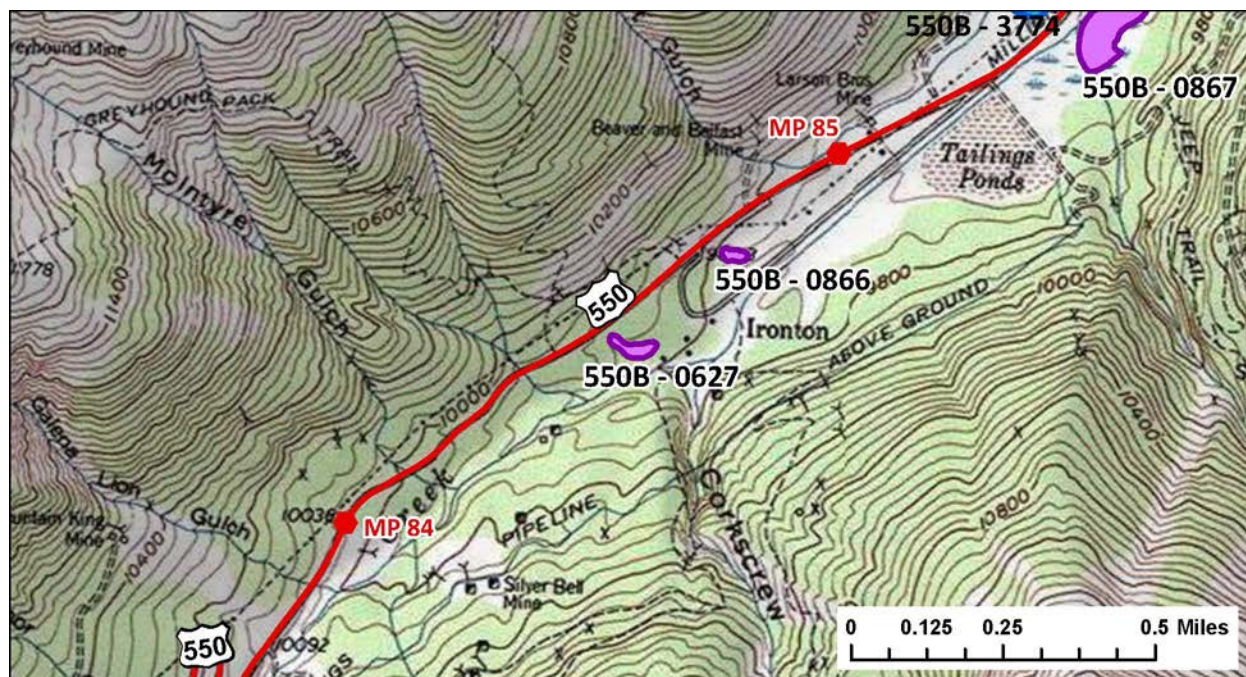
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,843 ft

Size: 0.96 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Sloping fen, with signs of iron deposits. Dominated by *Carex utriculata*, with *Betula glandulosa* and *Salix* species on edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
B EGL	<i>Betula glandulosa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
JUEN	<i>Juncus ensifolius</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
JUARA4	<i>Juncus arcticus ssp. ater</i>	1	0.1

Fen Polygon: 550B - 0818

Nearest Milepoint: US 550, MP 75

Location: Between Mineral Creek and Ophir Pass Road

Surveyed Date: N/A

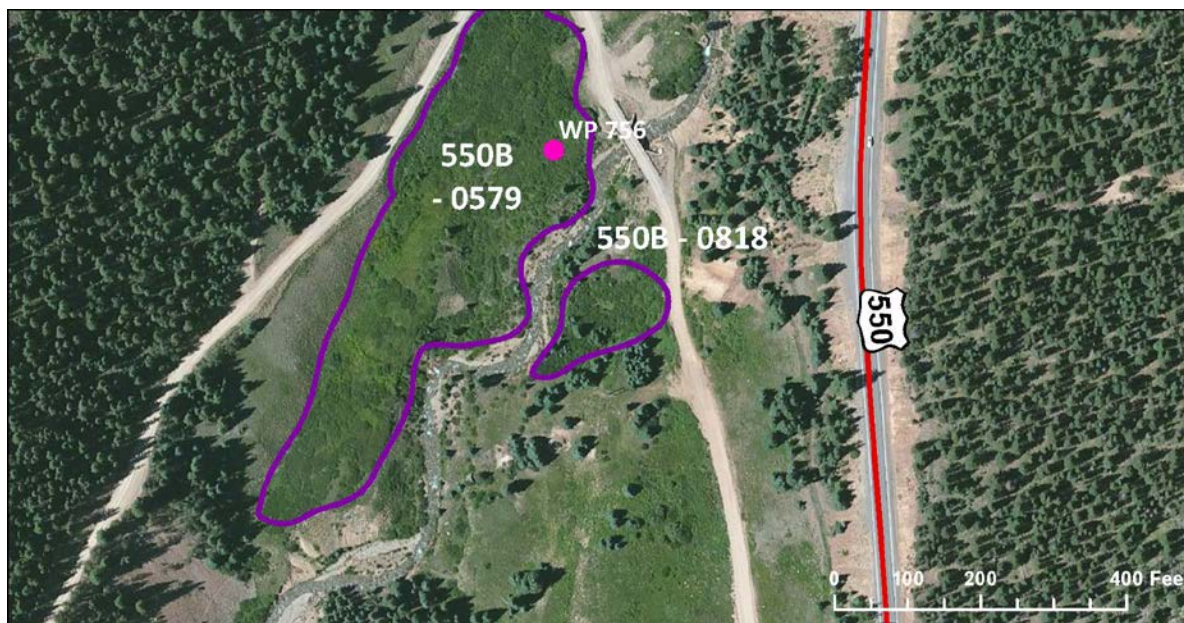
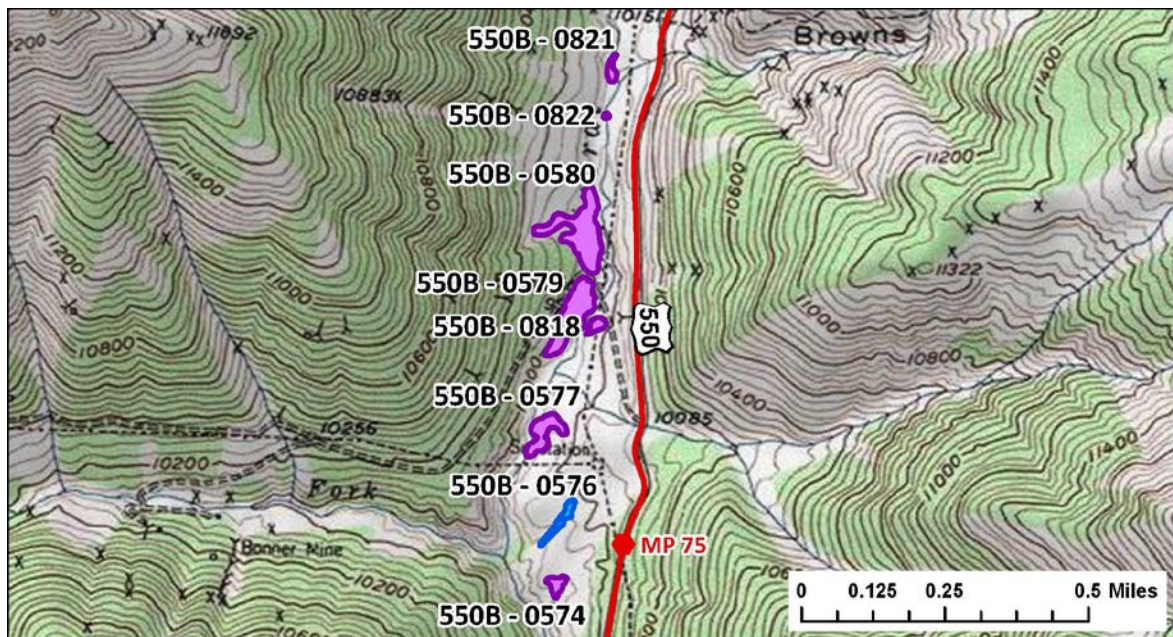
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,970 ft

Size: 0.37 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0821

Nearest Milepoint: US 550, MP 76

Location: Along Mineral Creek

Surveyed Date: 8/28/2016

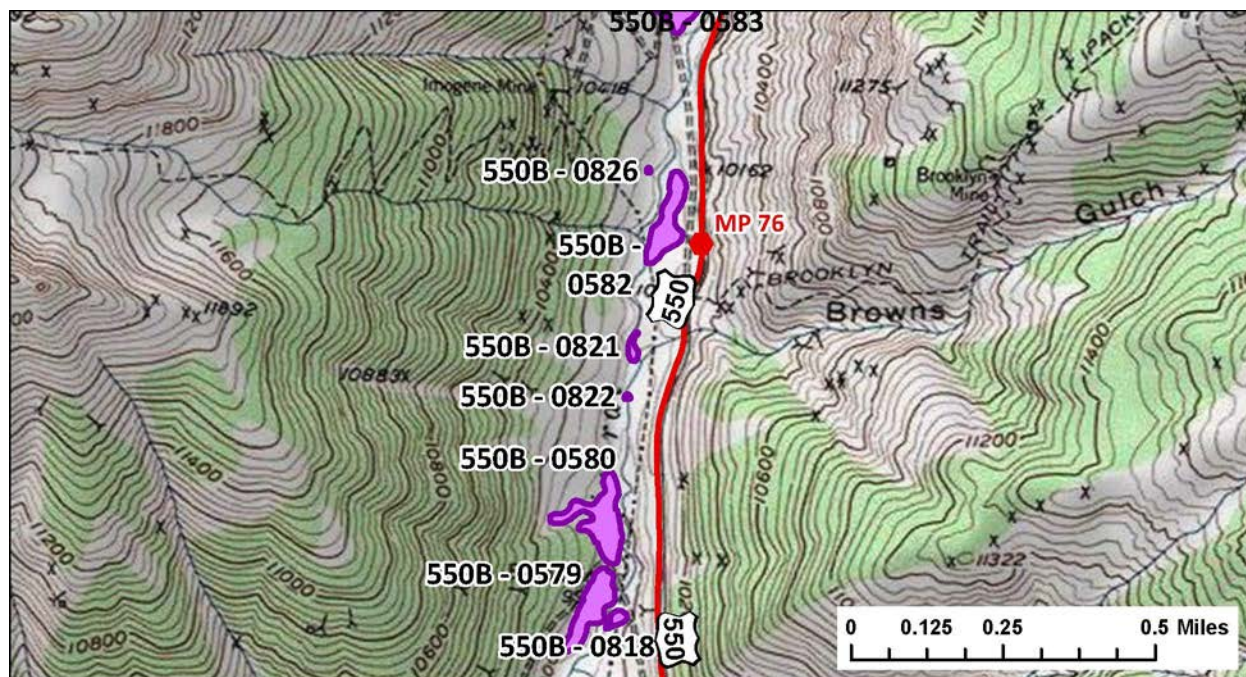
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,148 ft

Size: 0.32 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Adjacent to creek, with abundant *Sphagnum* moss.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	4	3.5
PIEN	<i>Picea engelmannii</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
SWPE	<i>Swertia perennis</i>	3	1.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
DECE	<i>Deschampsia cespitosa</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	1	0.1

Fen Polygon: 550B - 0822

Nearest Milepoint: US 550, MP 76

Location: Along Mineral Creek

Surveyed Date: 8/28/2016

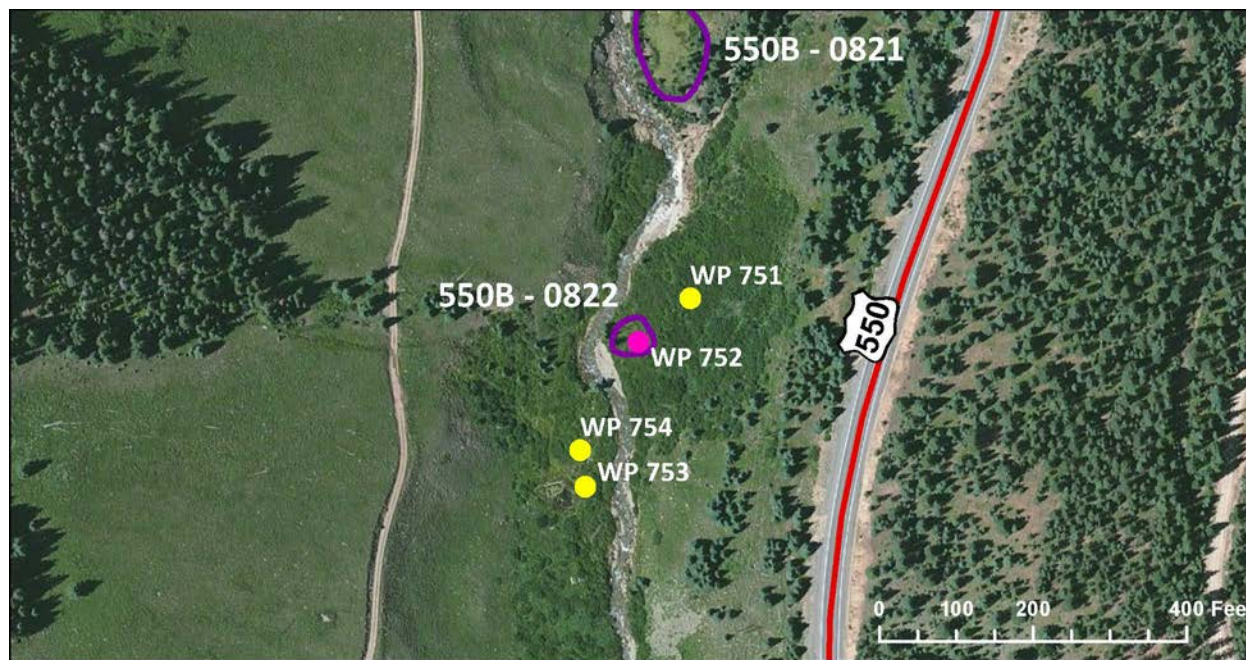
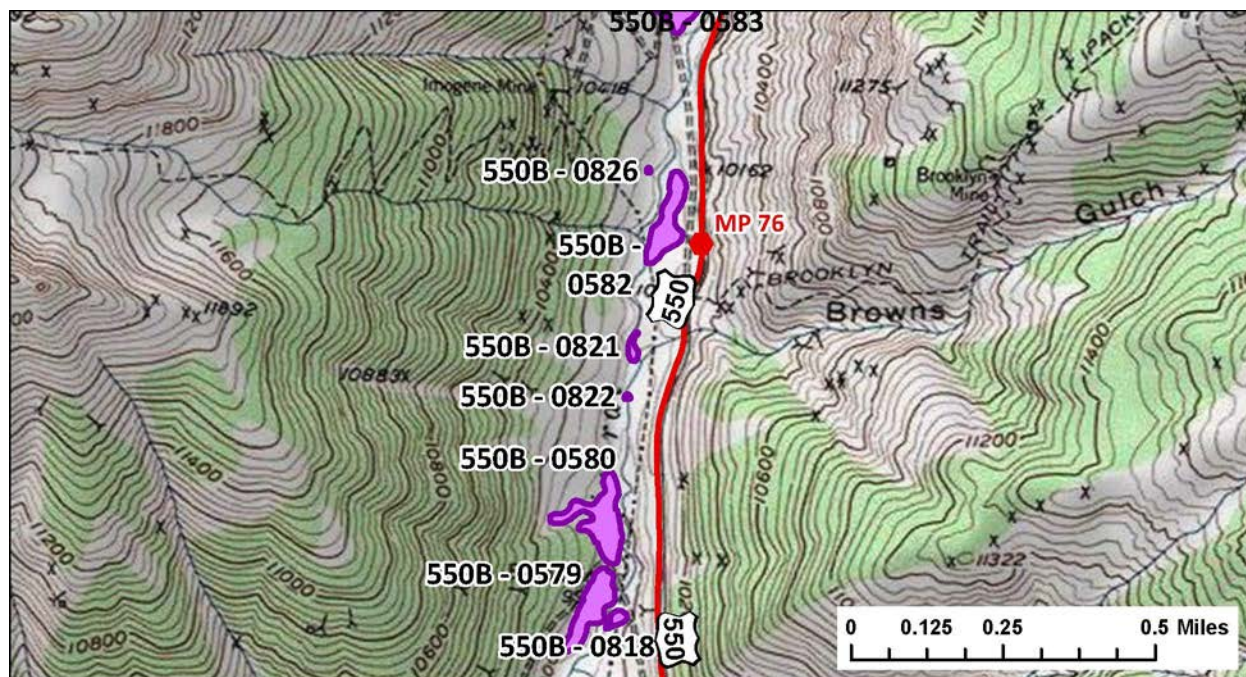
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 10,108 ft

Size: 0.05 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Adjacent to Mineral Creek. Shrubby with *Salix planifolia*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
SAPL2	<i>Salix planifolia</i>	7	37.5
CAUT	<i>Carex utriculata</i>	6	17.5
COSC2	<i>Conioselinum scopulorum</i>	5	7.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	5	7.5
CLRH2	<i>Clementsia rhodantha</i>	2	0.5
FRVIG2	<i>Fragaria virginiana ssp. glauca</i>	2	0.5
GETH	<i>Gentianopsis thermalis</i>	2	0.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	2	0.5
SALIX	<i>Salix</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
CAAQ	<i>Carex aquatilis</i>	1	0.1
GERI	<i>Geranium richardsonii</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
POLYG4	<i>Polygonum</i>	1	0.1

Fen Polygon: 550B - 0826

Nearest Milepoint: US 550, MP 76

Location: Along Mineral Creek

Surveyed Date: 8/28/2016

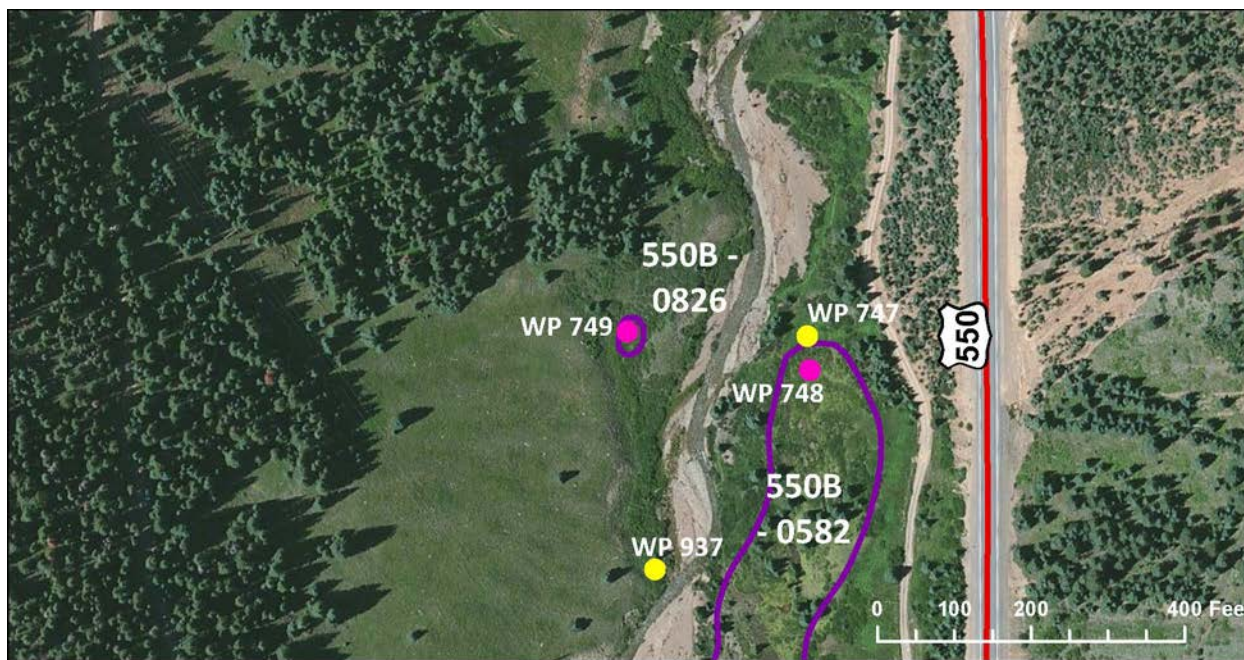
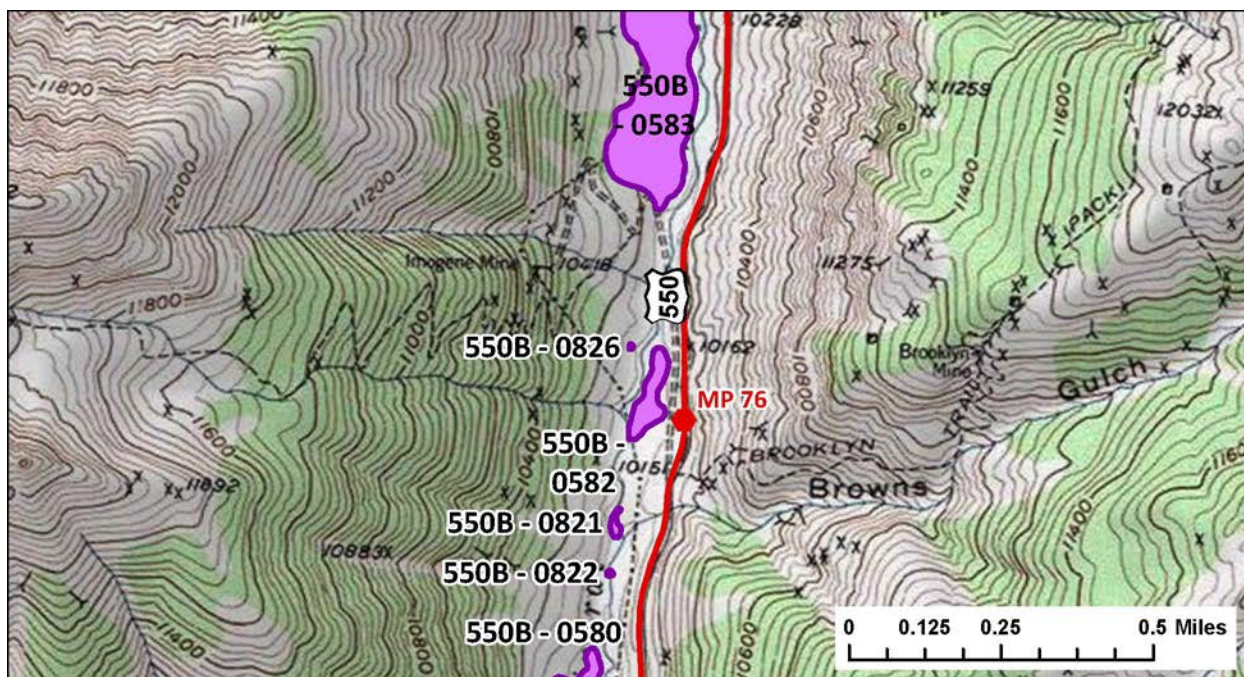
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,177 ft

Size: 0.03 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Sloping fen, with abundant *Salix* on edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	8	62.5
SAPL2	<i>Salix planifolia</i>	6	17.5
B EGL	<i>Betula glandulosa</i>	5	7.5
POCAA4	<i>Polemonium caeruleum ssp. amygdalinum</i>	5	7.5
CACO6	<i>Cardamine cordifolia</i>	4	3.5
GERI	<i>Geranium richardsonii</i>	4	3.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
SAXIF	<i>Saxifraga</i>	3	1.5
BIBI5	<i>Bistorta bistortoides</i>	2	0.5
MIGU	<i>Mimulus guttatus</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	2	0.5
EPILO	<i>Epilobium</i>	1	0.1
LIMNOR	<i>Limnorchis</i>	1	0.1
PHCO9	<i>Phleum commutatum</i>	1	0.1

Fen Polygon: 550B - 0831

Nearest Milepoint: US 550, MP 77

Location: Along Mineral Creek

Surveyed Date: 8/28/2016

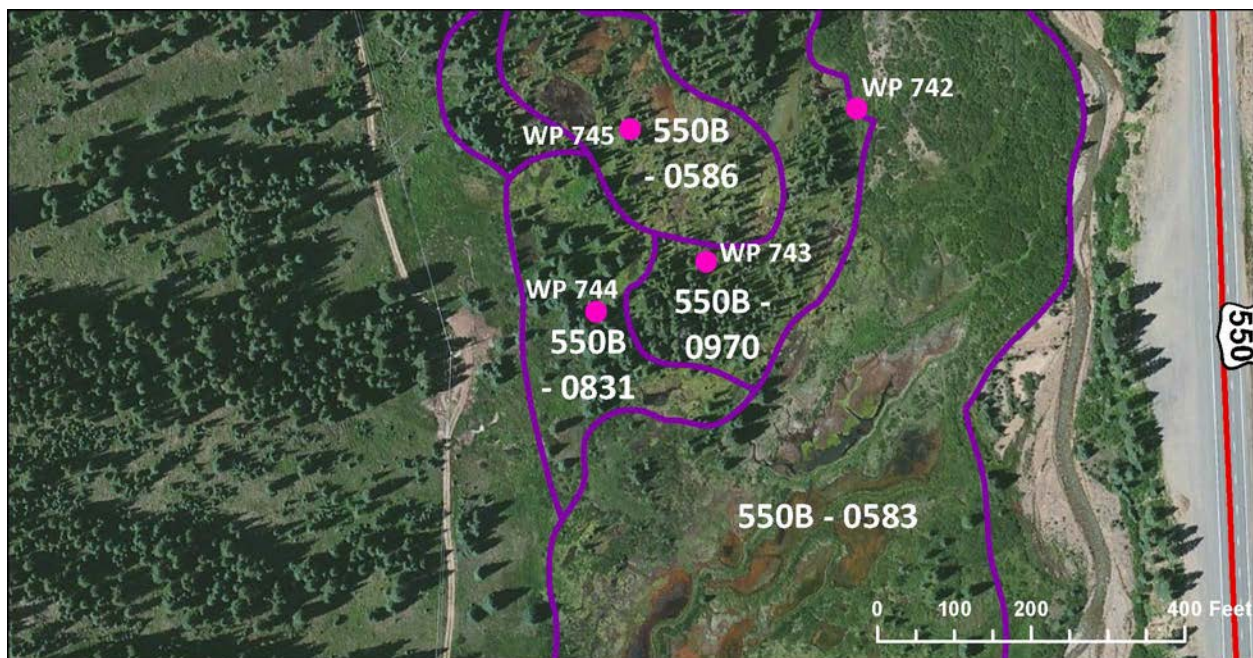
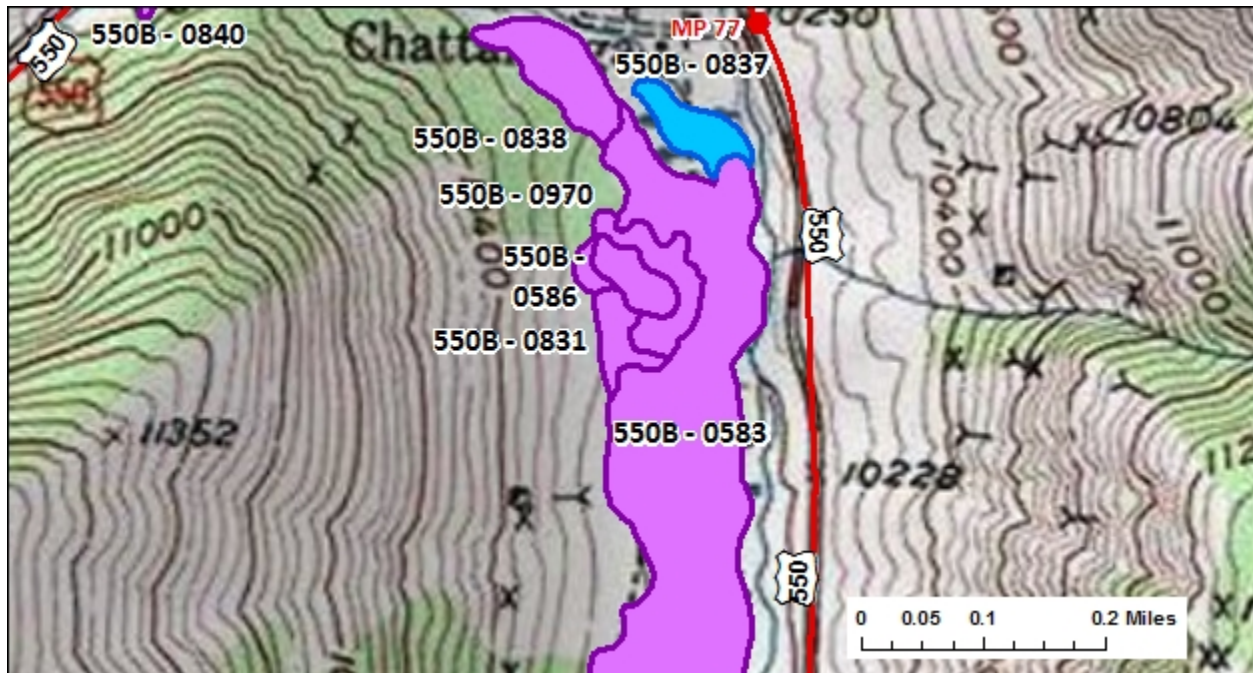
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,276 ft

Size: 1.50 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: West of Mineral Creek; part of a larger fen. Mostly *Betula* and *Carex aquatilis* cover.

Site Photo



Fen Polygon: 550B - 0838

Nearest Milepoint: US 550, MP 77

Location: Near the intersection of Mineral Creek and Mill Creek

Surveyed Date: N/A

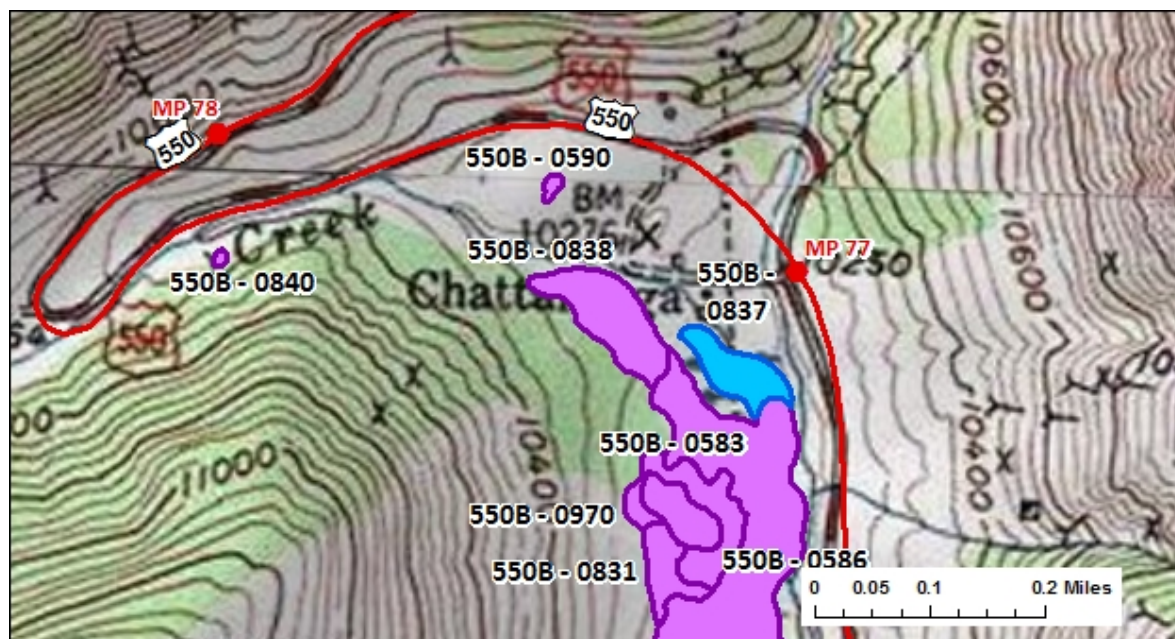
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 10,322 ft

Size: 3.55 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0840

Nearest Milepoint: US 550, MP 78

Location: Along Mill Creek

Surveyed Date: 8/28/2016

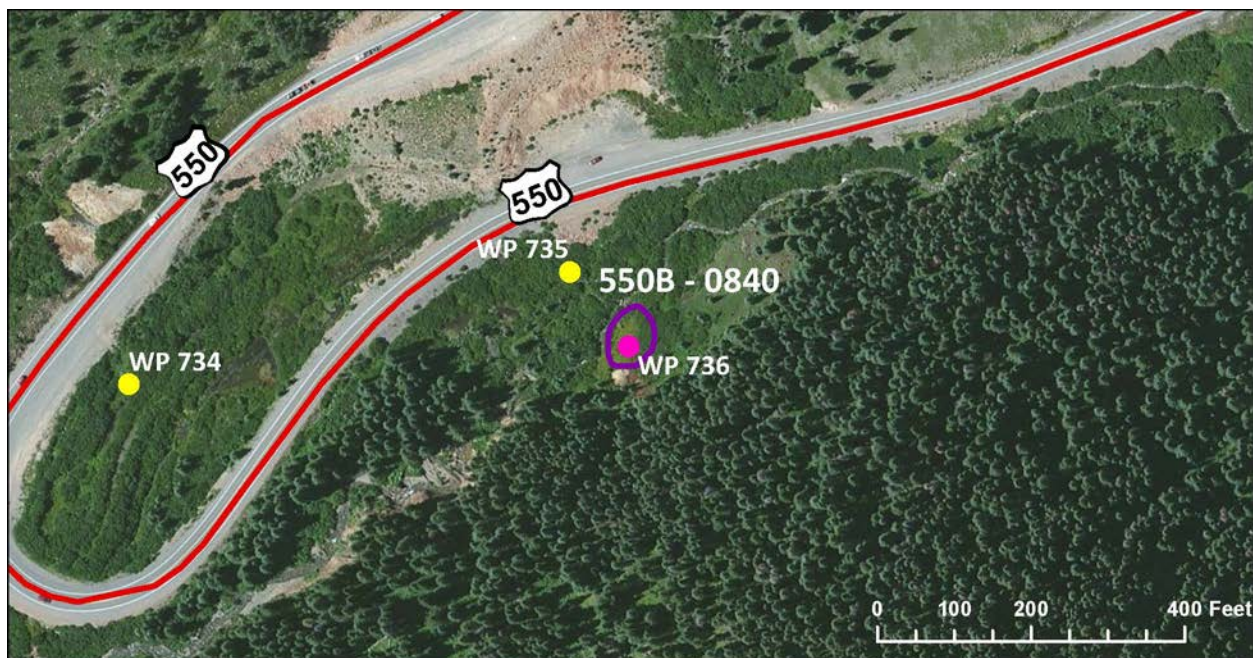
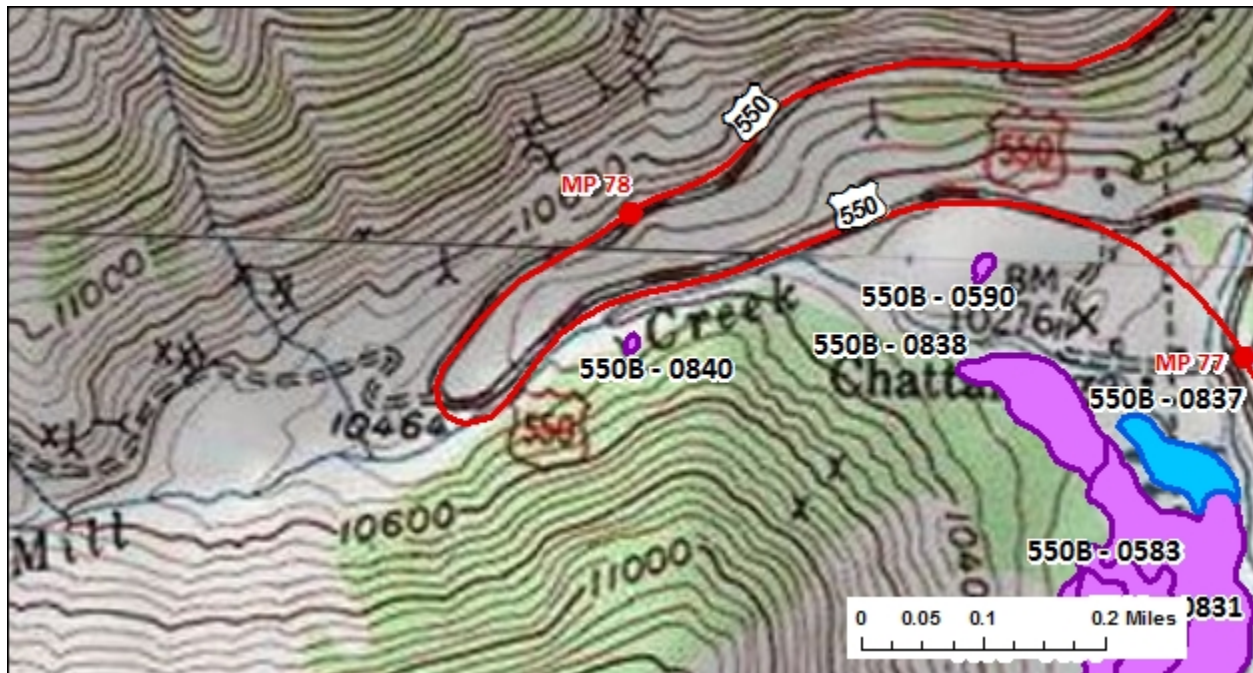
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 10,446 ft

Size: 0.08 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Gently sloping fen, just above stream. Abundant *Sphagnum* moss, with *Salix planifolia* on edges of polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	6	17.5
PEGR2	<i>Pedicularis groenlandica</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
GETH	<i>Gentianopsis thermalis</i>	5	7.5
SETR	<i>Senecio triangularis</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
POLYG4	<i>Polygonum</i>	1	0.1
SAMO2	<i>Salix monticola</i>	1	0.1

Fen Polygon: 550B - 0845

Nearest Milepoint: US 550, MP 79

Location: Between Mineral Creek and Bullion King Road

Surveyed Date: N/A

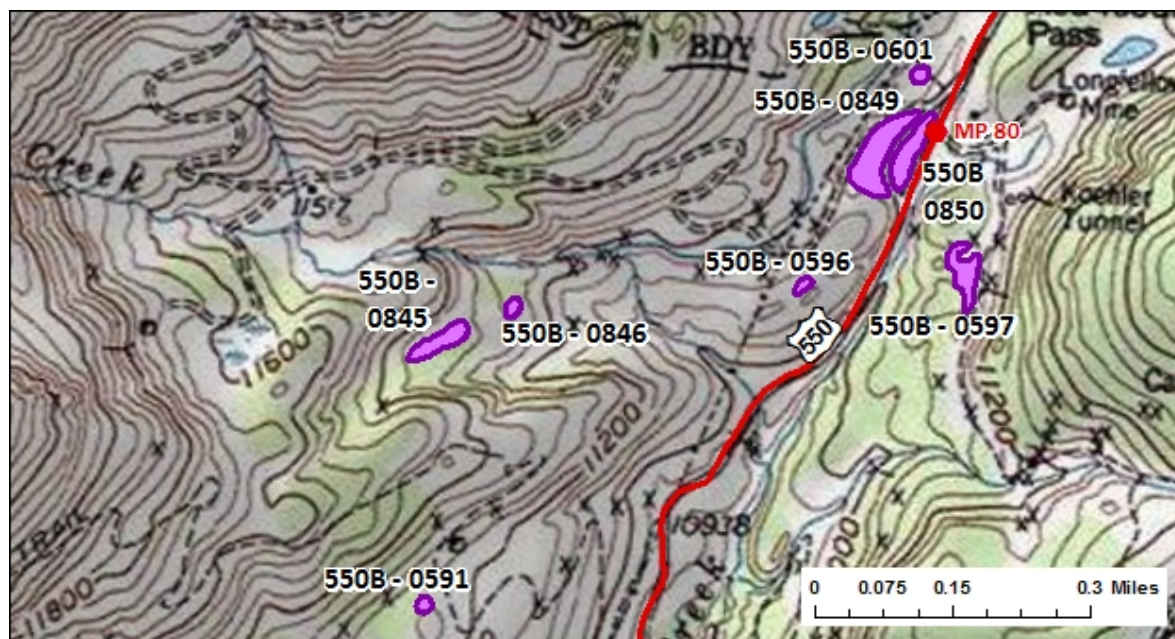
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,388 ft

Size: 0.75 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0846

Nearest Milepoint: US 550, MP 80

Location: Between Mineral Creek and Bullion King Road

Surveyed Date: N/A

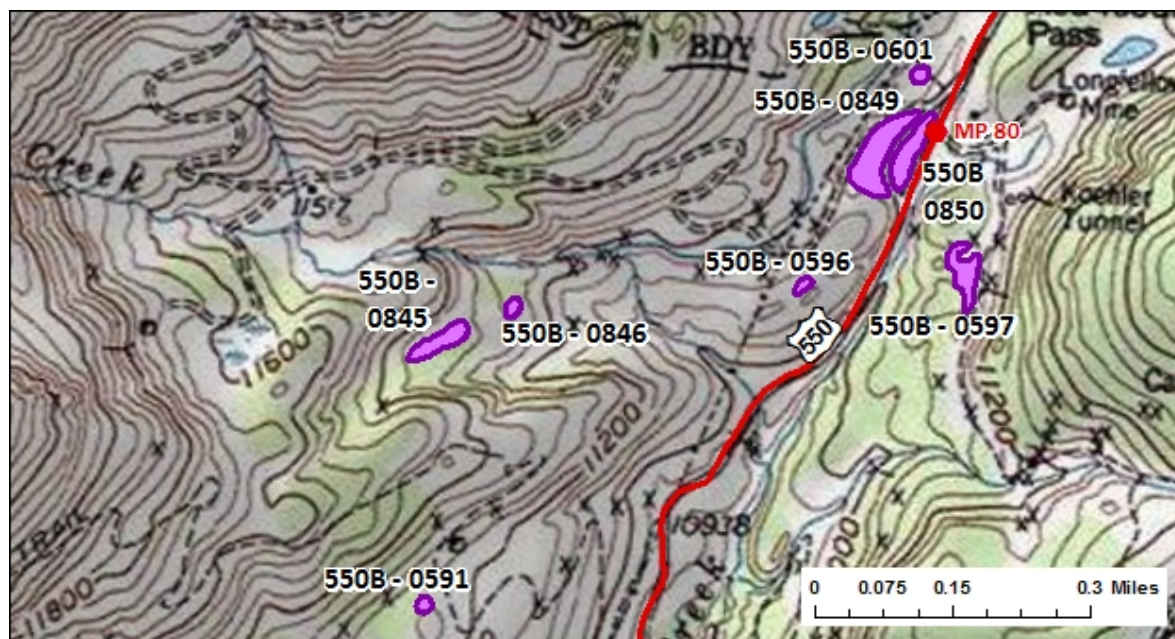
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,299 ft

Size: 0.19 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0849

Nearest Milepoint: US 550, MP 80

Location: Adjacent to Black Bear Pass Road

Surveyed Date: N/A

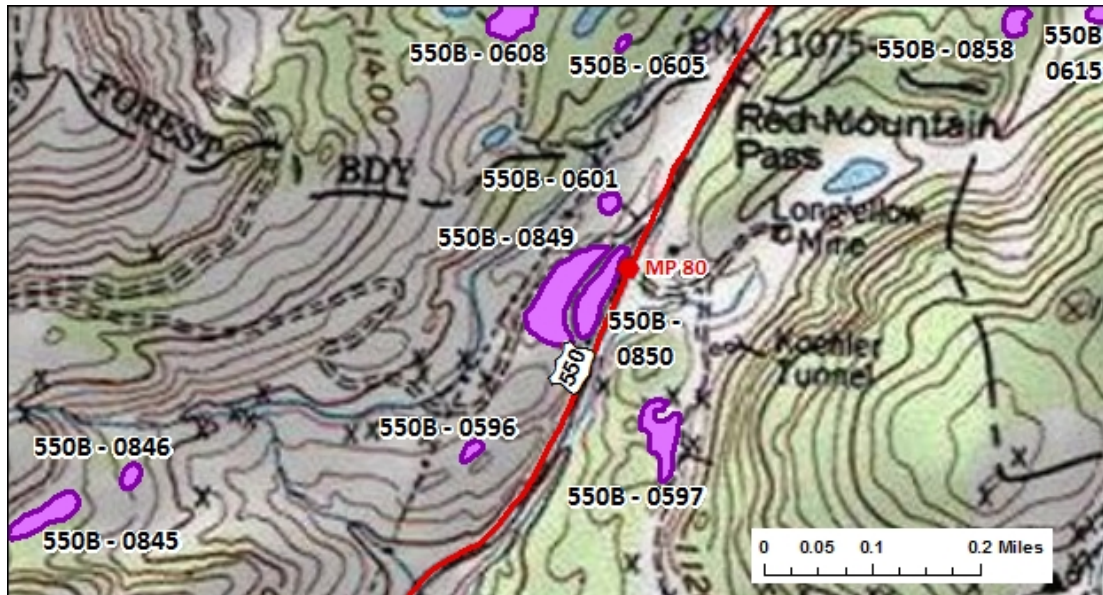
Proximity to Hwy: 10-25 m (33-82 ft)

Elevation: 11,119 ft

Size: 1.83 acres

ROW Status: Private land exists between polygon and highway. Not contiguous to wetlands within ROW

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0850

Nearest Milepoint: US 550, MP 80

Location: Adjacent to intersection of U.S. Route 550 and Black Bear Pass Rd **Surveyed Date:** 8/27/2016

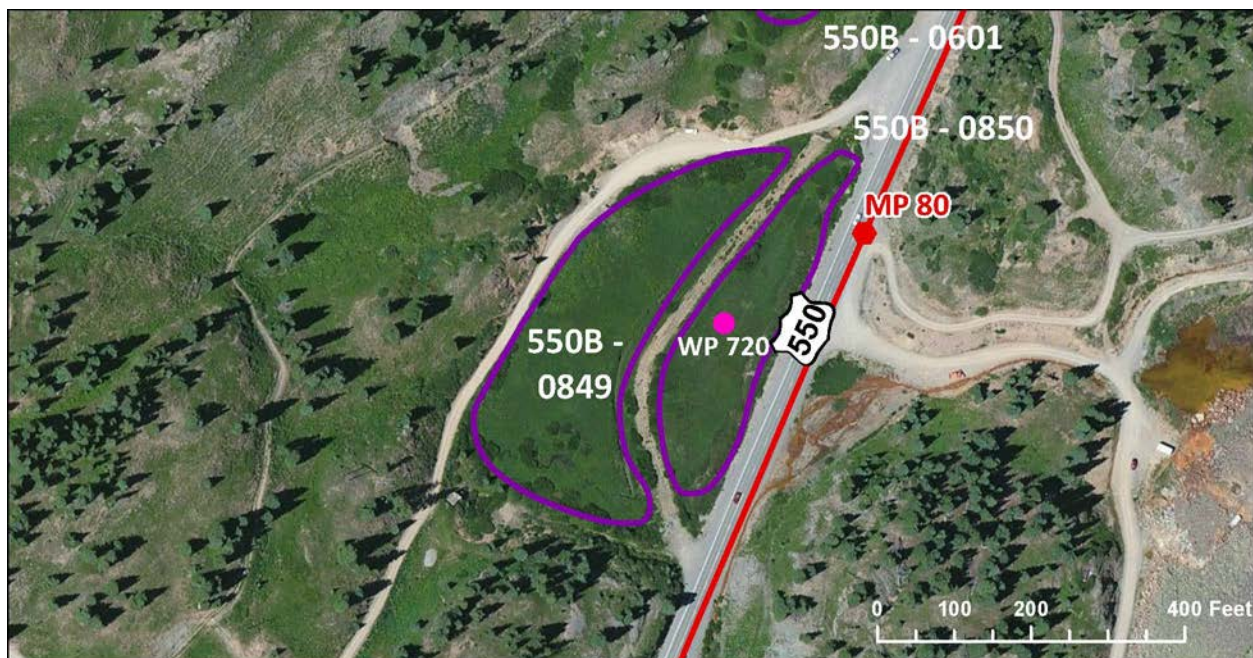
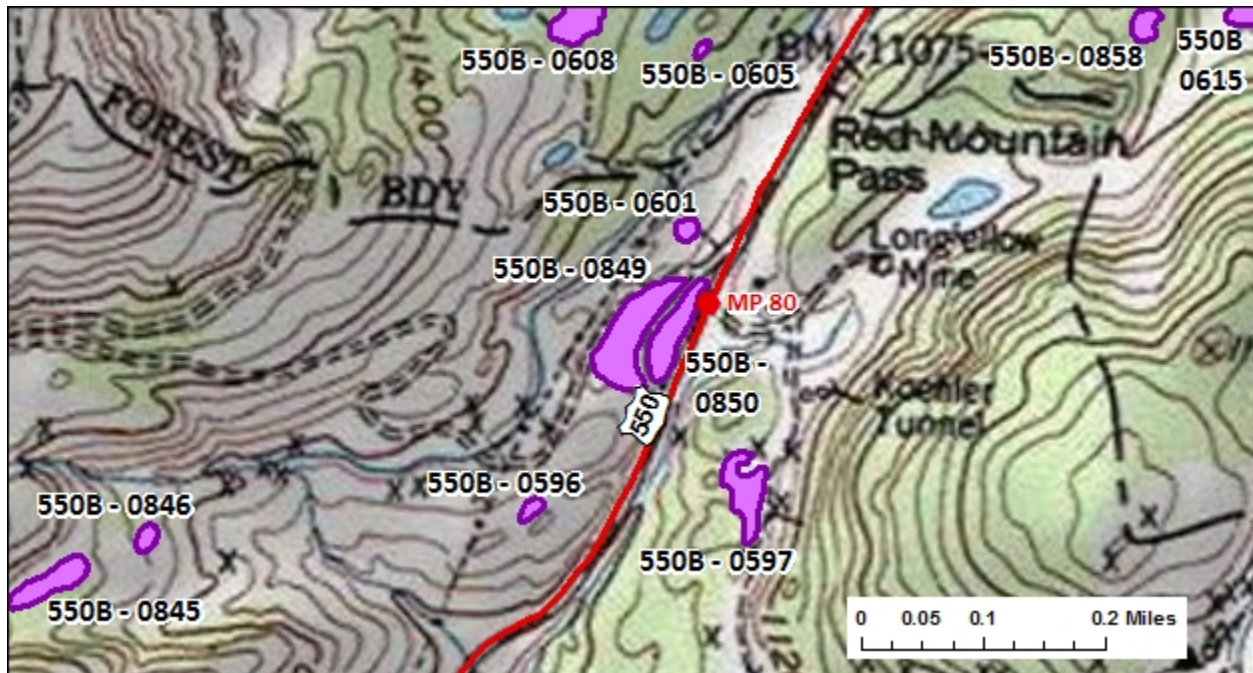
Proximity to Hwy: <5 m (16 ft)

Elevation: 11,070 ft

Size: 0.97 acres

ROW Status: Within ROW

Primary Landowners: Private Property



Description: Large fen in a depression adjacent to road. Gently sloping fen, with some standing water in polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	5	7.5
CACO6	<i>Cardamine cordifolia</i>	4	3.5
CAUT	<i>Carex utriculata</i>	4	3.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	3	1.5
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	2	0.5
MECI3	<i>Mertensia ciliata</i>	1	0.1
ROPA2	<i>Rorippa palustris</i>	1	0.1

Fen Polygon: 550B - 0853

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: N/A

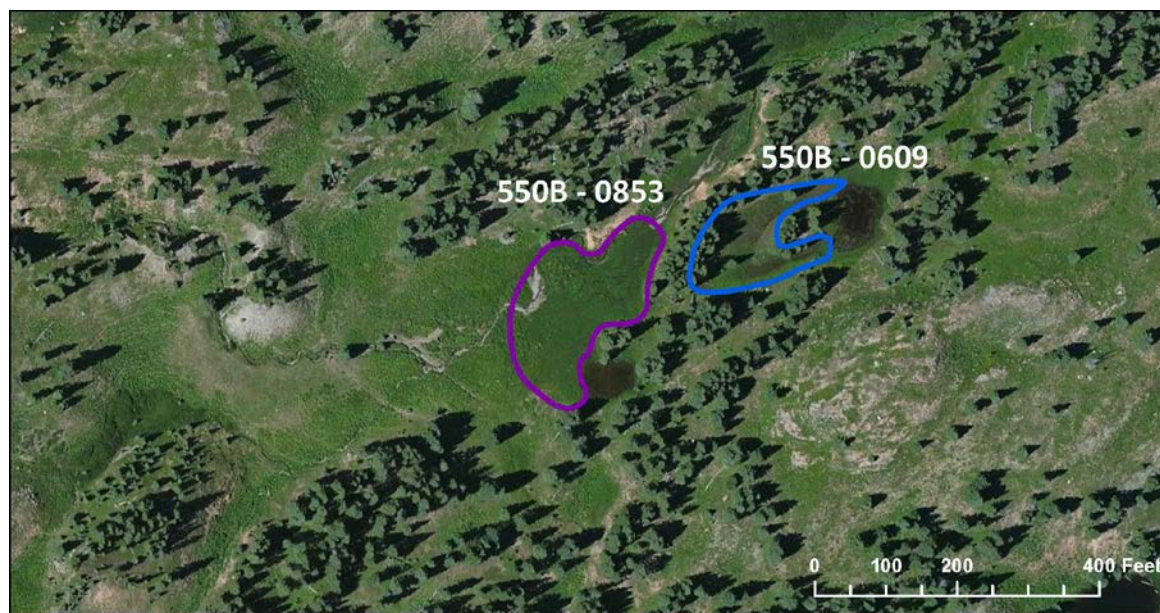
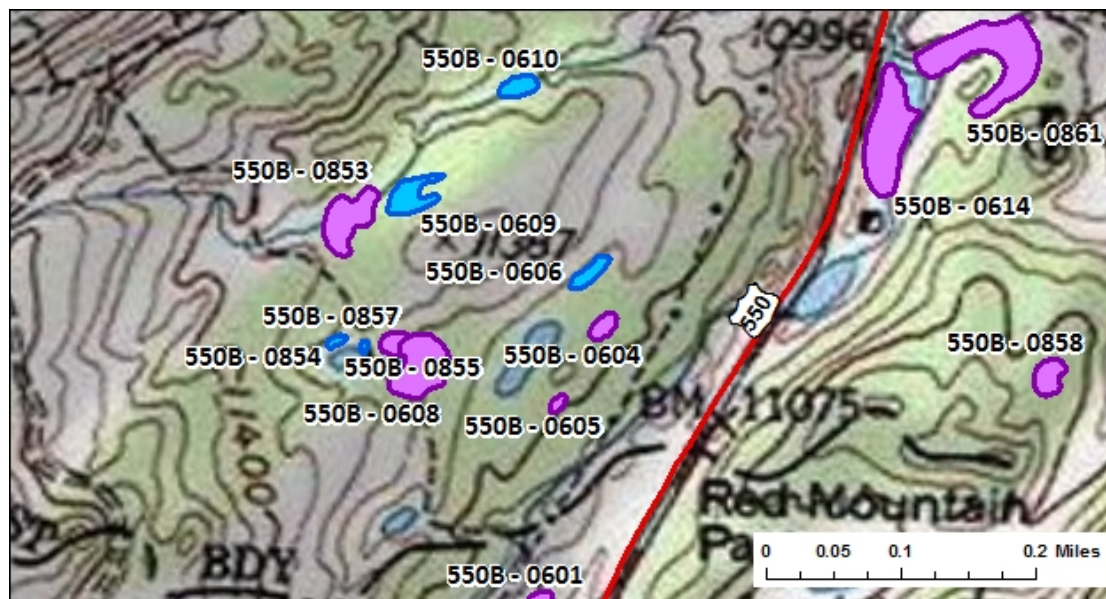
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,362 ft

Size: 0.74 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Uncompahgre National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0857

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: N/A

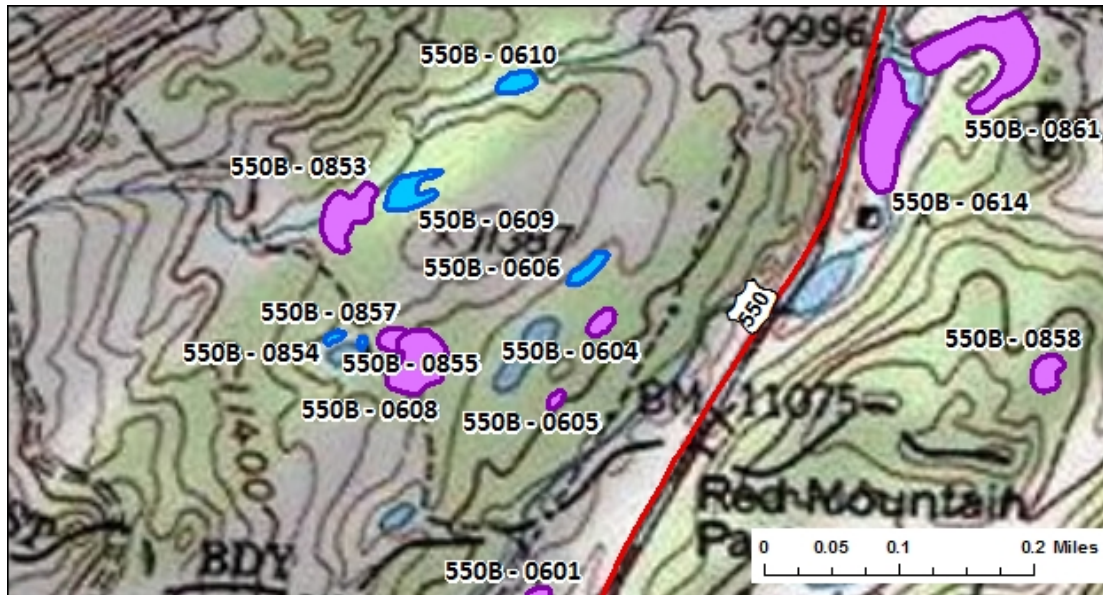
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,316 ft

Size: 0.16 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Uncompahgre National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0858

Nearest Milepoint: US 550, MP 80

Location: Red Mountain Pass

Surveyed Date: N/A

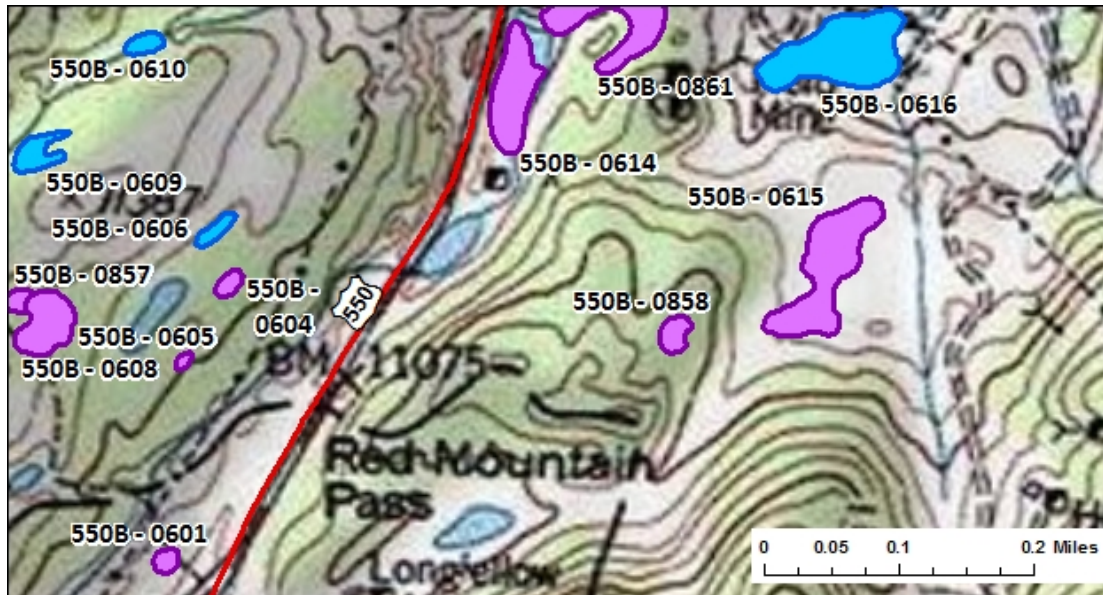
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,234 ft

Size: 0.31 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Private Property



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0861

Nearest Milepoint: US 550, MP 81

Location: Red Mountain Pass

Surveyed Date: N/A

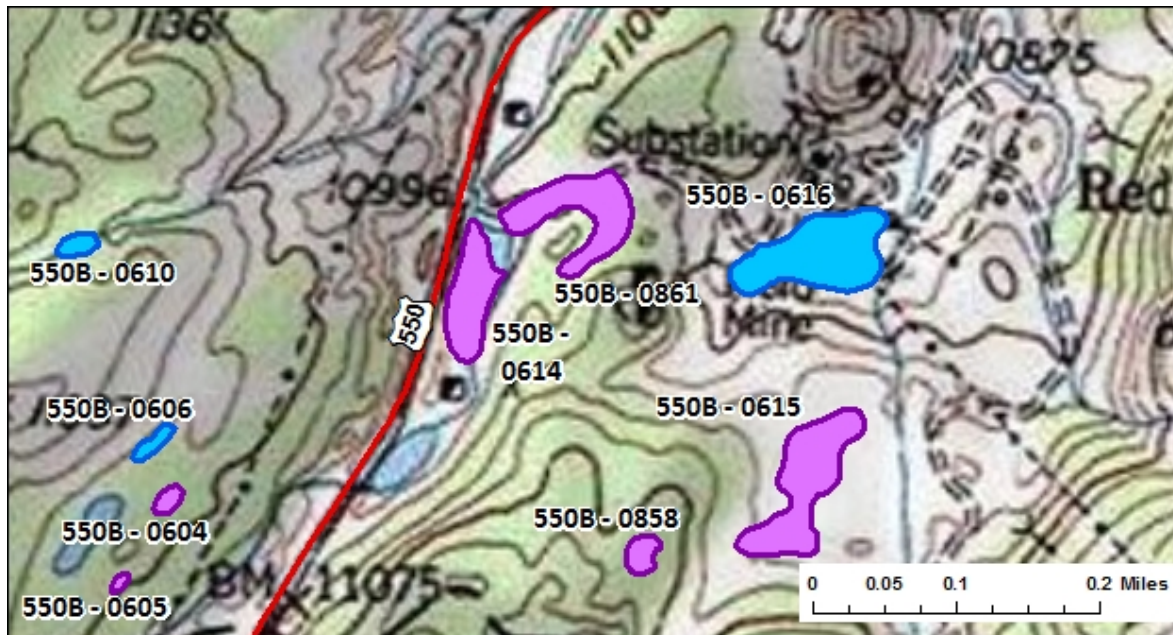
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 11,004 ft

Size: 1.91 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0864

Nearest Milepoint: US 550, MP 81

Location: Red Mountain Pass

Surveyed Date: 8/27/2016

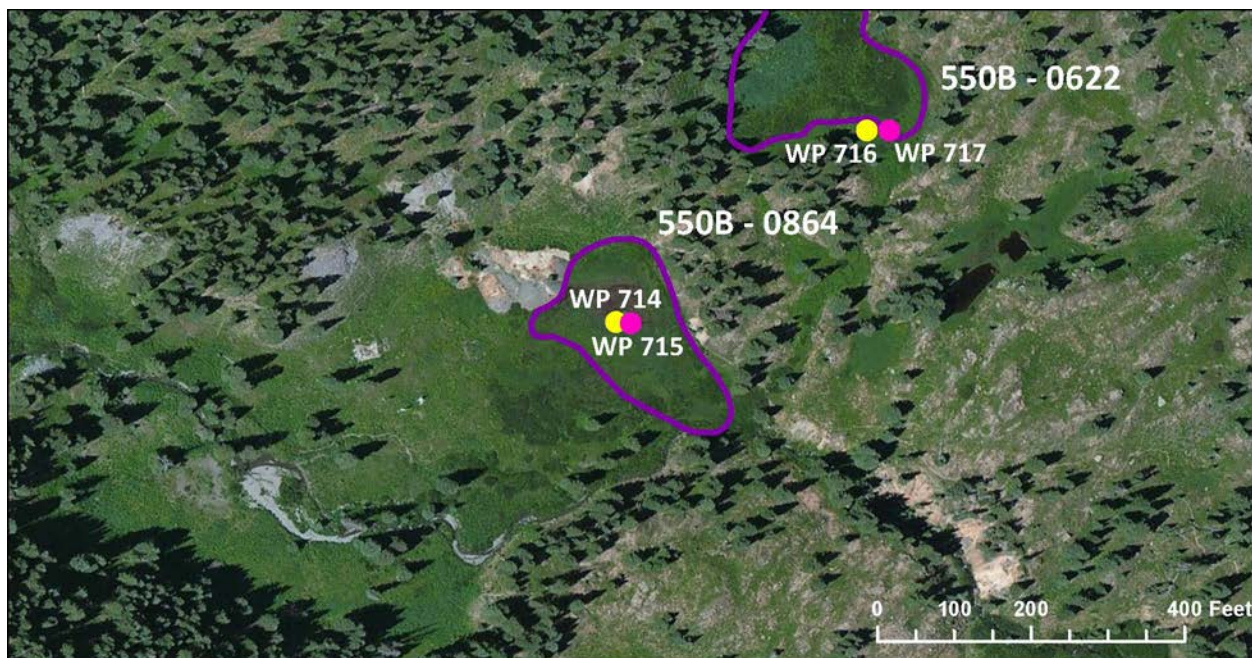
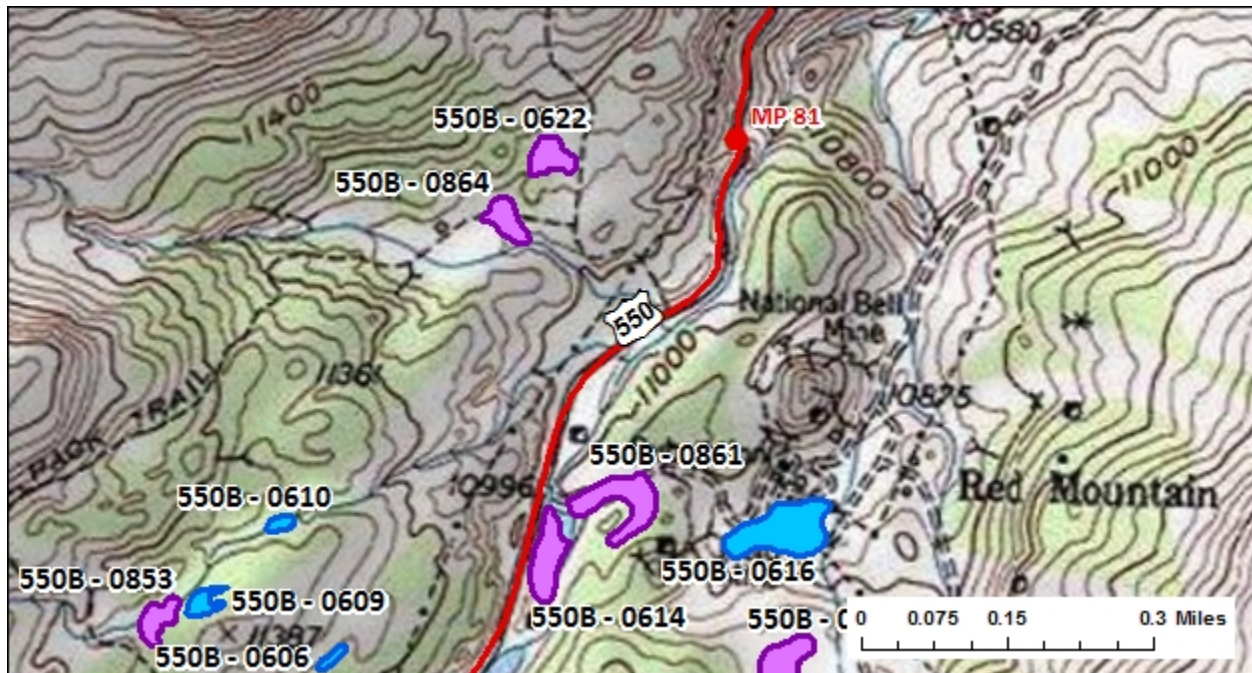
Proximity to Hwy: >200 m (656 ft)

Elevation: 11,063 ft

Size: 0.77 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Depressional fen, surrounded by *Picea*. Trail close to edge of wetland. Dominated by *Carex* species. One soil core inside polygon hit bedrock at 35 cm, but this is likely an anomaly. Polygon is a confirmed fen from a previous survey (Chimner, R.A, J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
JUEN	<i>Juncus ensifolius</i>	5	7.5
PSLE	<i>Psychrophila leptosepala</i>	5	7.5
CACA11	<i>Carex canescens</i>	4	3.5
SETR	<i>Senecio triangularis</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
CACO6	<i>Cardamine cordifolia</i>	3	1.5
MUFI2	<i>Muhlenbergia filiformis</i>	3	1.5
SAPL2	<i>Salix planifolia</i>	3	1.5
SCIRP	<i>Scirpus</i>	3	1.5
PIEN	<i>Picea engelmannii</i>	2	0.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
COSC2	<i>Conioselinum scopulorum</i>	1	0.1
EPILO	<i>Epilobium</i>	1	0.1
PNPA	<i>Pneumonanthe parryi</i>	1	0.1

Fen Polygon: 550B - 0866

Nearest Milepoint: US 550, MP 85

Location: Near Ironton Tailings Ponds

Surveyed Date: 8/26/2016

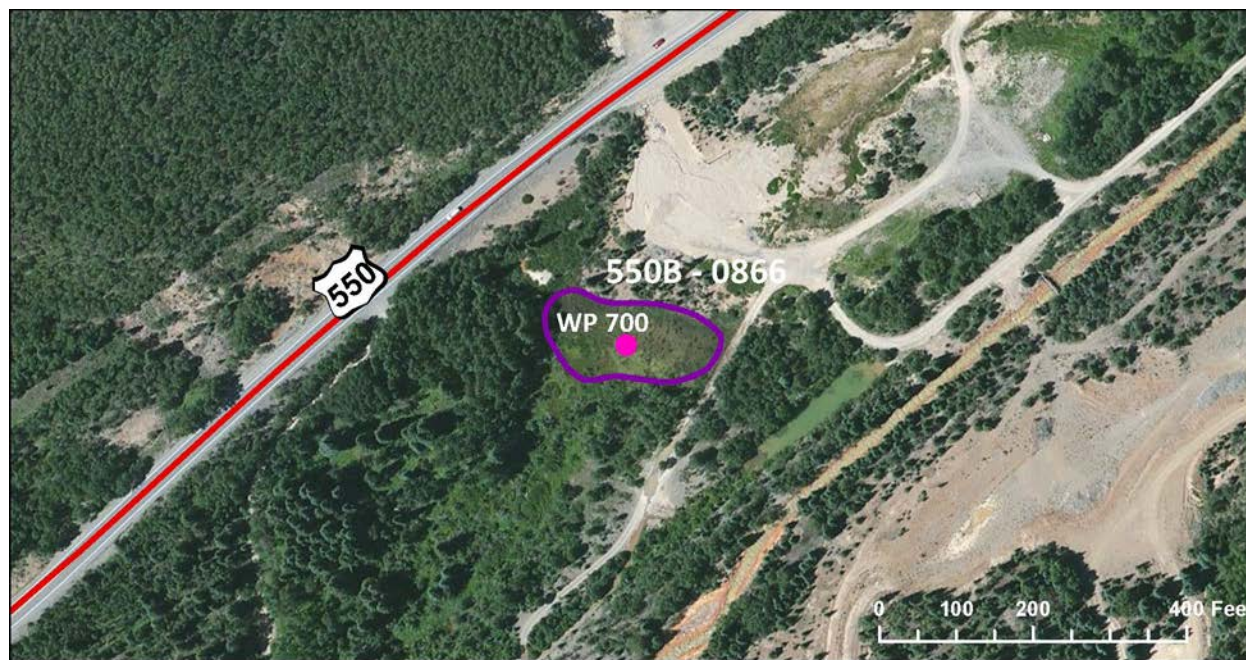
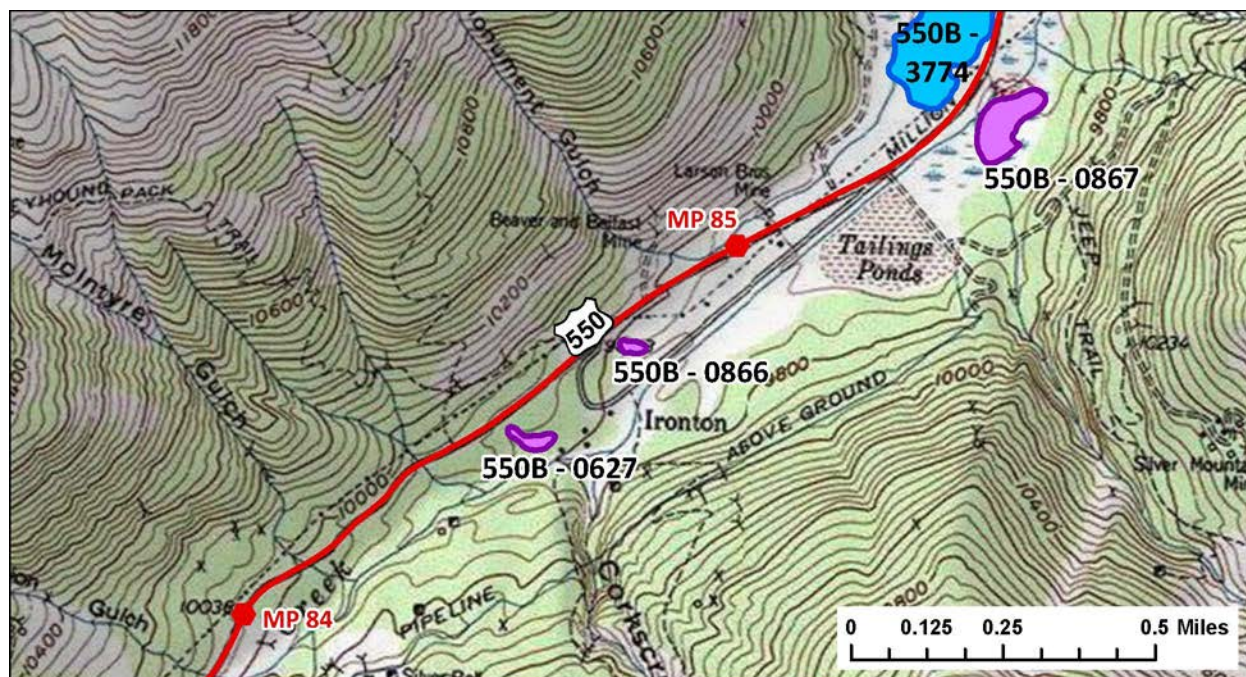
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,797 ft

Size: 0.47 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Depressional fen with very deep peat and mats of *Sphagnum*. *Betula* and *Salix* on edges of peat.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
Begl	<i>Betula glandulosa</i>	5	7.5
CACA11	<i>Carex canescens</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	4	3.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>ater</i>	3	1.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	3	1.5
ALINT	<i>Alnus incana</i> ssp. <i>tenuifolia</i>	2	0.5
CAAQ	<i>Carex aquatilis</i>	2	0.5
CHDA2	<i>Chamerion danielsii</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	2	0.5

Fen Polygon: 550B - 0867

Nearest Milepoint: US 550, MP 85

Location: Along Red Mountain Creek

Surveyed Date: 8/26/2016

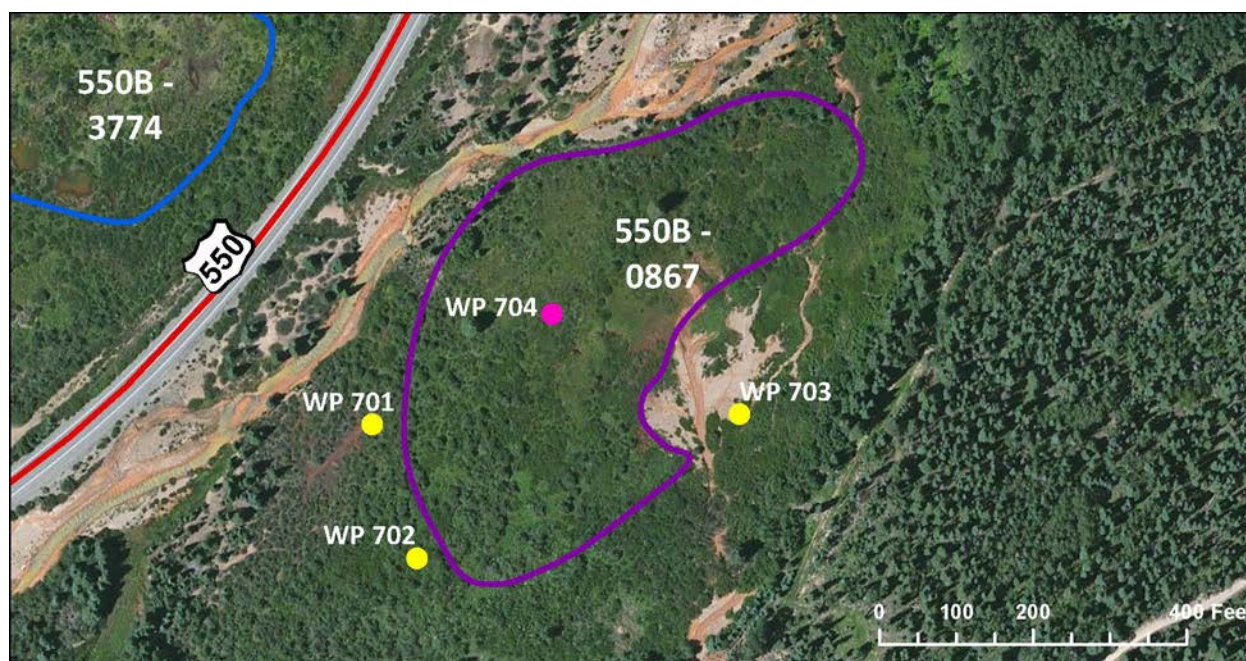
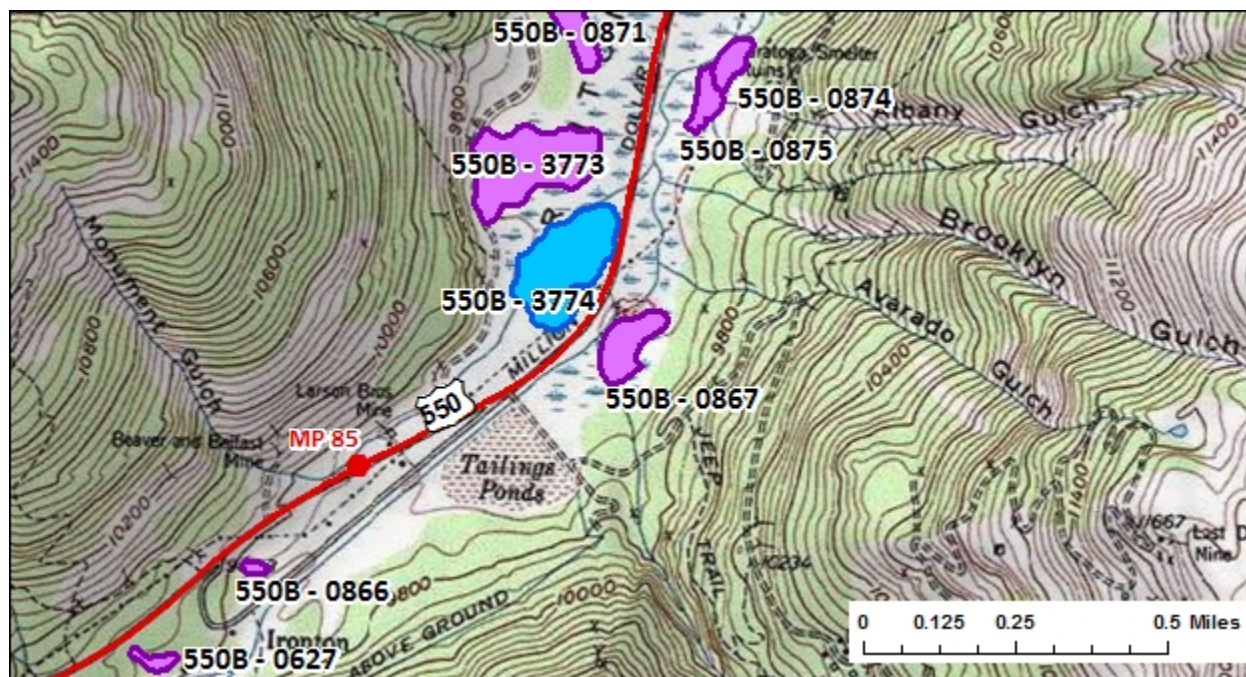
Proximity to Hwy: 50-75 m (164-246 ft)

Elevation: 9,688 ft

Size: 4.72 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Large fen near Red Mountain Creek.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
CAAQ	<i>Carex aquatilis</i>	6	17.5
B EGL	<i>Betula glandulosa</i>	5	7.5
SAMO2	<i>Salix monticola</i>	4	3.5
JUARA4	<i>Juncus arcticus ssp. ater</i>	3	1.5
SAWO	<i>Salix wolfii</i>	3	1.5
VIMAP3	<i>Viola macloskeyi ssp. pallens</i>	3	1.5
EPILO	<i>Epilobium</i>	2	0.5
GATRS2	<i>Galium trifidum ssp. subbiflorum</i>	2	0.5
HILA5	<i>Hippochaete laevigata</i>	2	0.5
LIDIA	<i>Limnorchis dilatata ssp. albiflora</i>	2	0.5
PEGR2	<i>Pedicularis groenlandica</i>	2	0.5
SWPE	<i>Swertia perennis</i>	2	0.5
HIHIA	<i>Hierochloë hirta ssp. arctica</i>	1	0.1
TAOF	<i>Taraxacum officinale</i>	1	0.1

Fen Polygon: 550B - 0871

Nearest Milepoint: US 550, MP 86

Location: Above Crystal Lake

Surveyed Date: 8/26/2016

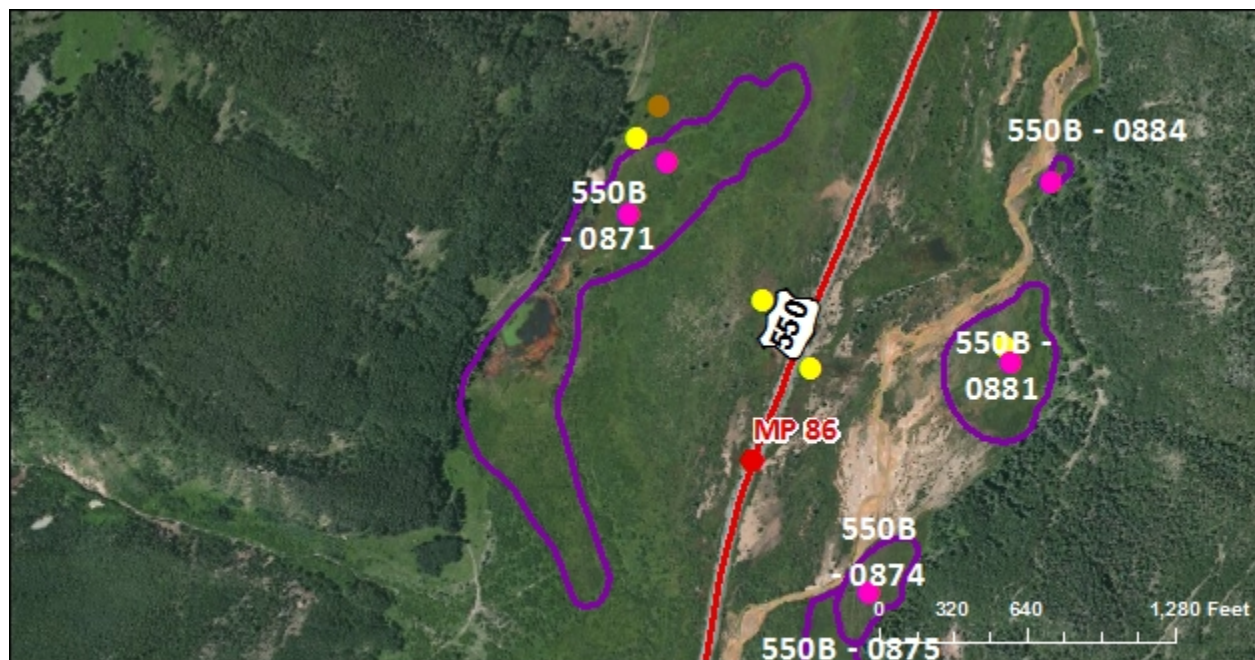
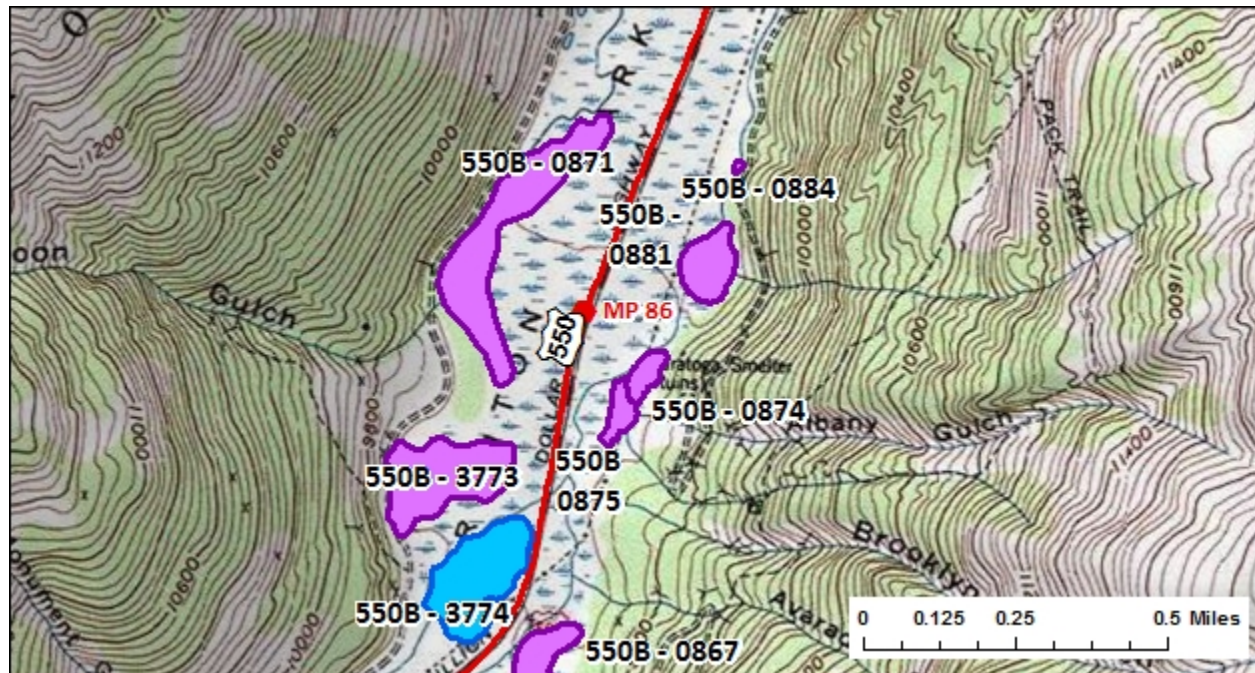
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,642 ft

Size: 19.61 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Large iron fen along creek. Polygon bordered by *Picea*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	7	37.5
SAPL2	<i>Salix planifolia</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	5	7.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CACO6	<i>Cardamine cordifolia</i>	5	7.5
SAWO	<i>Salix wolfii</i>	5	7.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
EPILO	<i>Epilobium</i>	3	1.5
PEGR2	<i>Pedicularis groenlandica</i>	3	1.5
POCAA4	<i>Polemonium caeruleum</i> ssp. <i>amygdalinum</i>	3	1.5
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	2	0.5

Fen Polygon: 550B - 0874

Nearest Milepoint: US 550, MP 86

Location: Along Red Mountain Creek

Surveyed Date: 8/27/2016

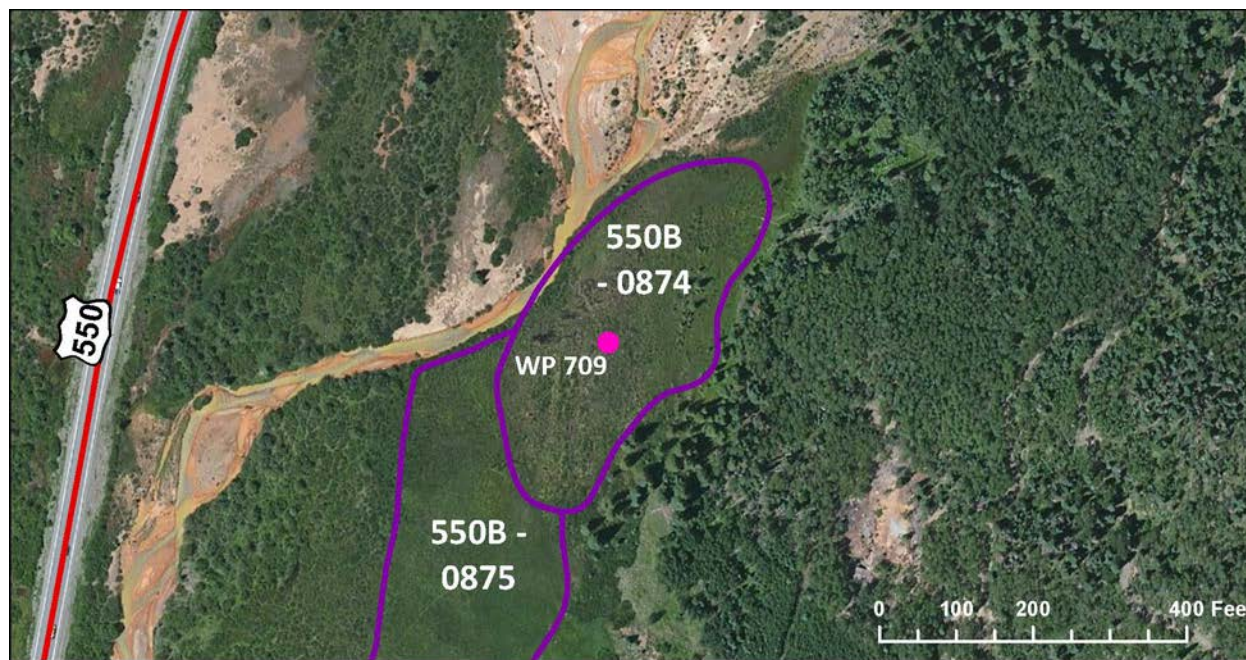
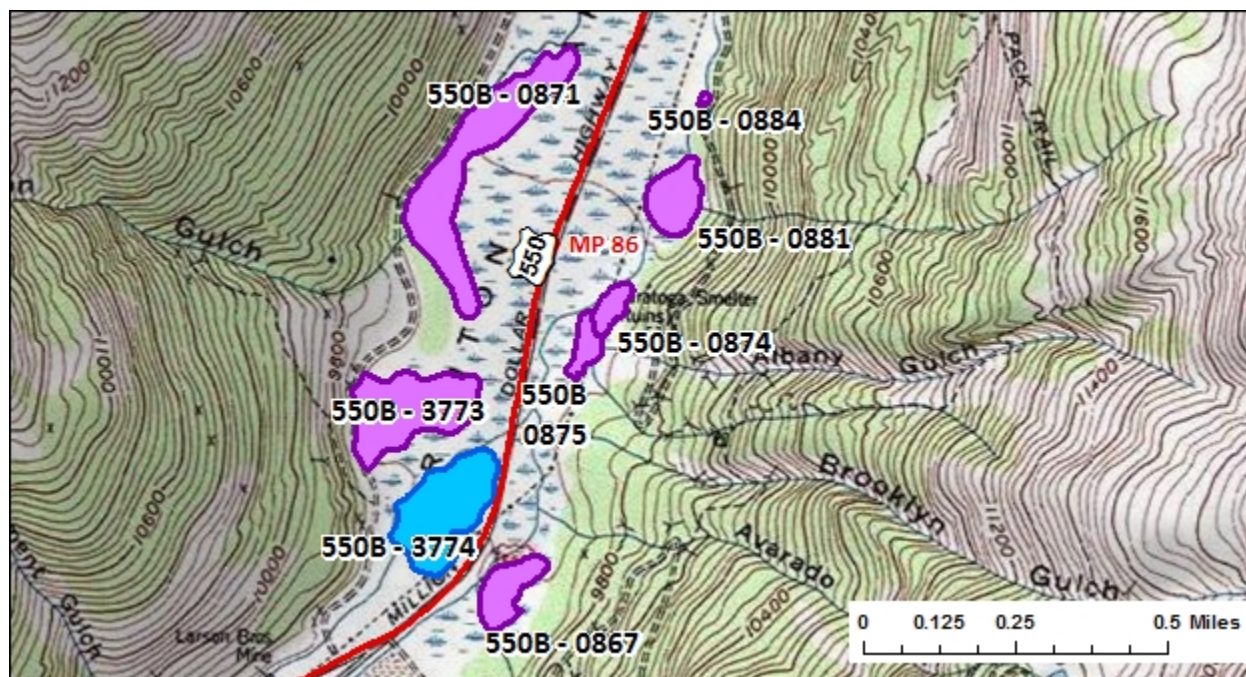
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,669 ft

Size: 2.08 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Shrub dominated fen near Red Mountain Creek. Some *Sphagnum* in polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
B EGL	<i>Betula glandulosa</i>	7	37.5
C AAQ	<i>Carex aquatilis</i>	7	37.5
C ACA11	<i>Carex canescens</i>	5	7.5
C AUT	<i>Carex utriculata</i>	5	7.5
P IEN	<i>Picea engelmannii</i>	1	0.1

Fen Polygon: 550B - 0875

Nearest Milepoint: US 550, MP 86

Location: Along Red Mountain Creek

Surveyed Date: 8/27/2016

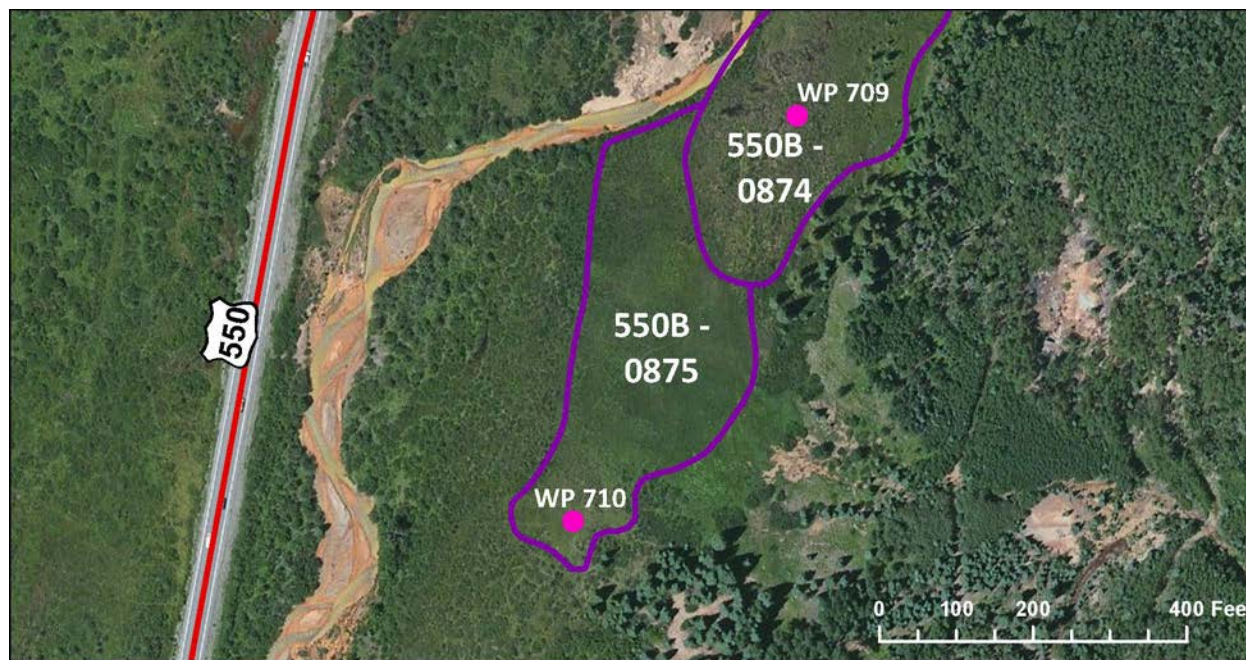
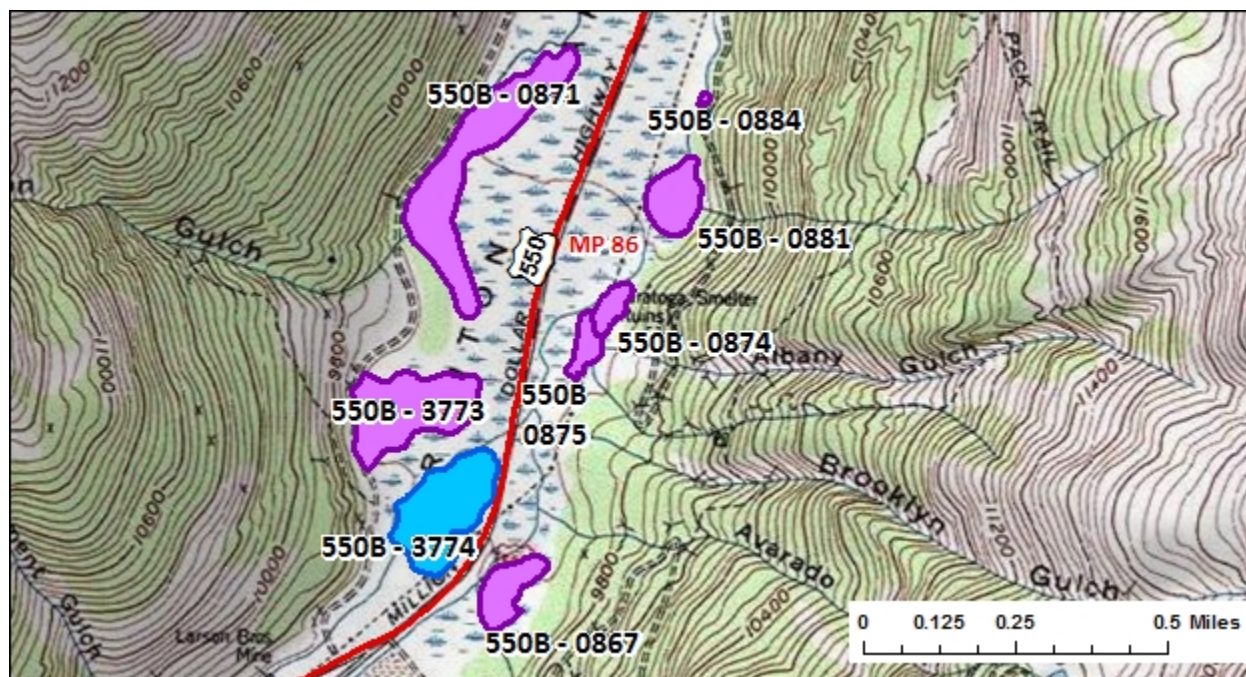
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 9,675 ft

Size: 2.21 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Small fen near Red Mountain Creek, surrounded by *Betula glandulosa* with abundant *Sphagnum* moss.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAUT	<i>Carex utriculata</i>	9	85
B EGL	<i>Betula glandulosa</i>	7	37.5
CACO6	<i>Cardamine cordifolia</i>	2	0.5
PIEN	<i>Picea engelmannii</i>	2	0.5

Fen Polygon: 550B - 0881

Nearest Milepoint: US 550, MP 86

Location: Along Red Mountain Creek

Surveyed Date: 8/27/2016

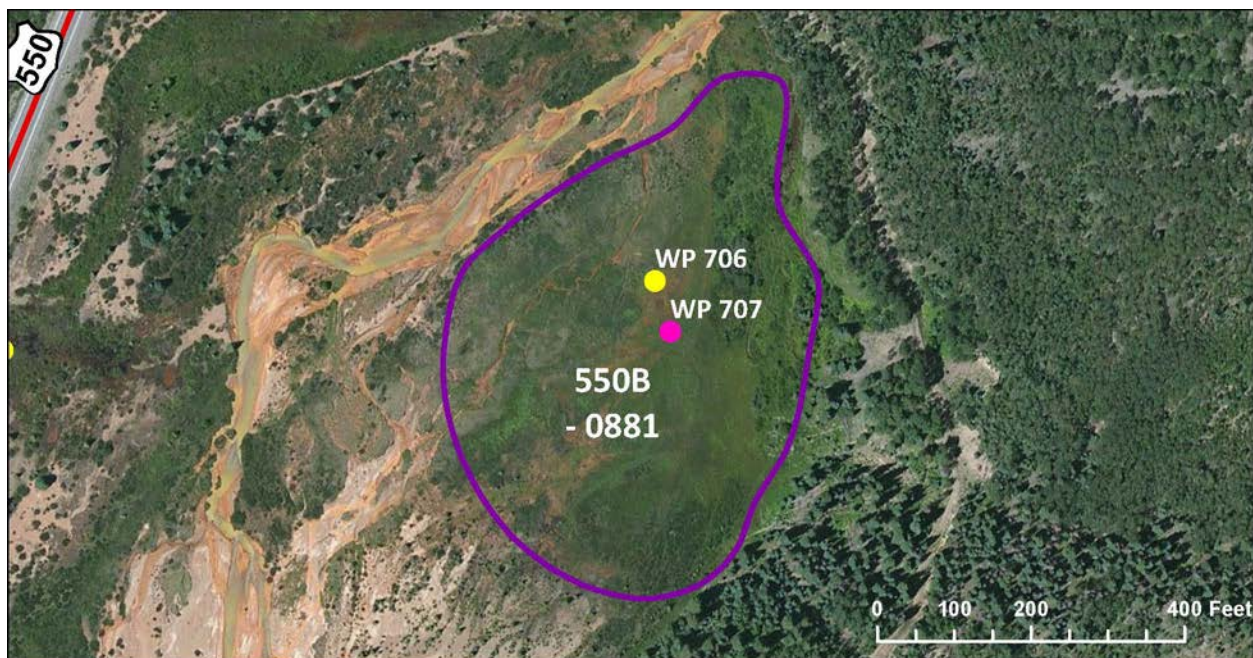
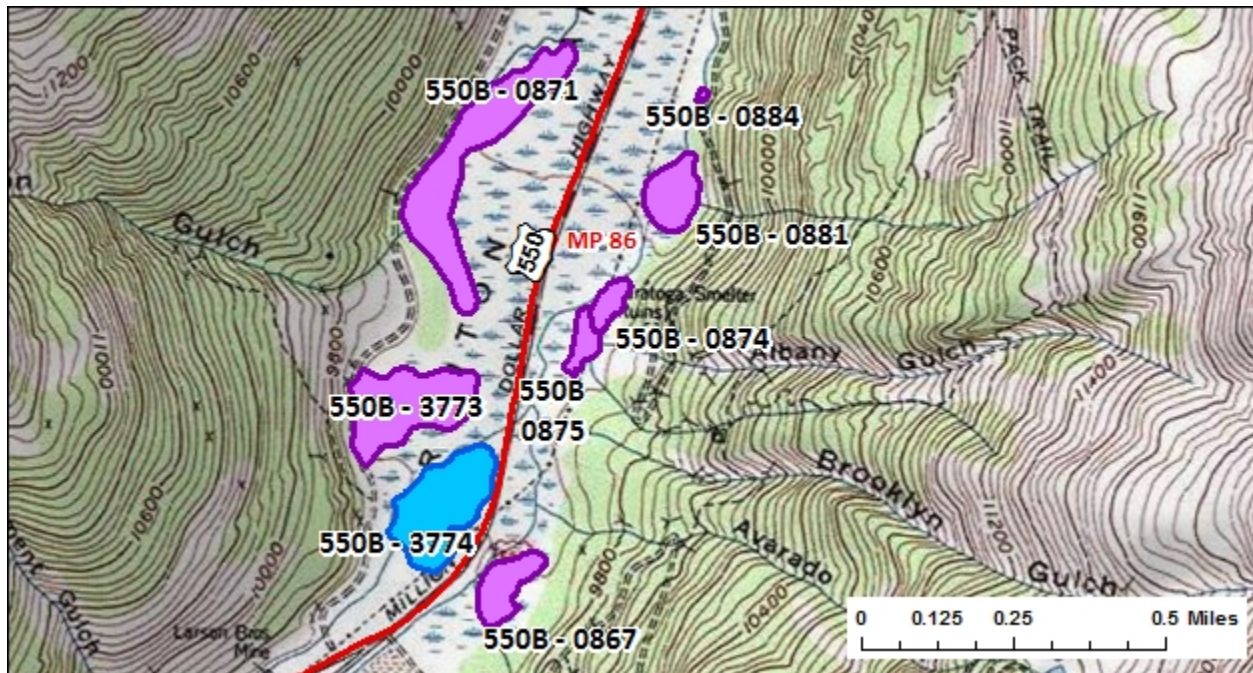
Proximity to Hwy: 150-200 m (492-656 ft)

Elevation: 9,642 ft

Size: 5.31 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Adjacent to Red Mountain Creek. Dominated by *Carex aquatilis*. Soil saturated, but not much standing water. One soil core was taken in polygon that had less than 40 cm OM. Area is a confirmed fen from previous survey (Chimner, R.A, J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	9	85
B EGL	<i>Betula glandulosa</i>	6	17.5
CACA11	<i>Carex canescens</i>	5	7.5
CAUT	<i>Carex utriculata</i>	4	3.5
CACA4	<i>Calamagrostis canadensis</i>	3	1.5
SAWO	<i>Salix wolfii</i>	2	0.5

Fen Polygon: 550B - 0884

Nearest Milepoint: US 550, MP 86

Location: Along Red Mountain Creek

Surveyed Date: 8/27/2016

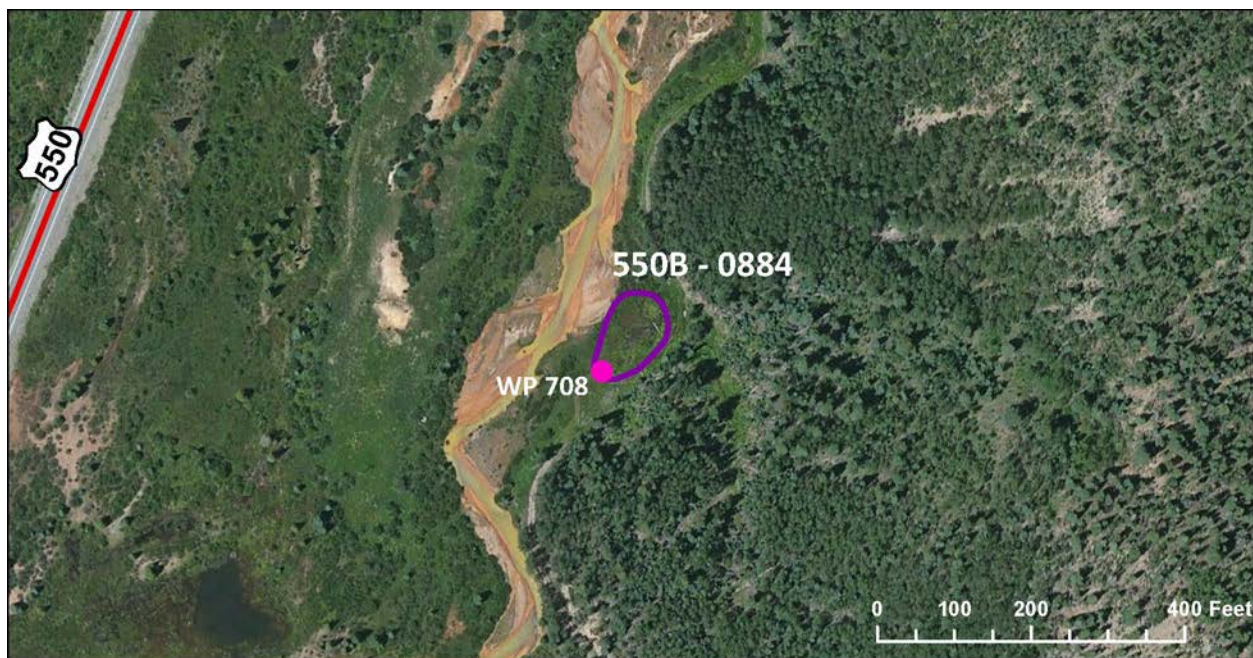
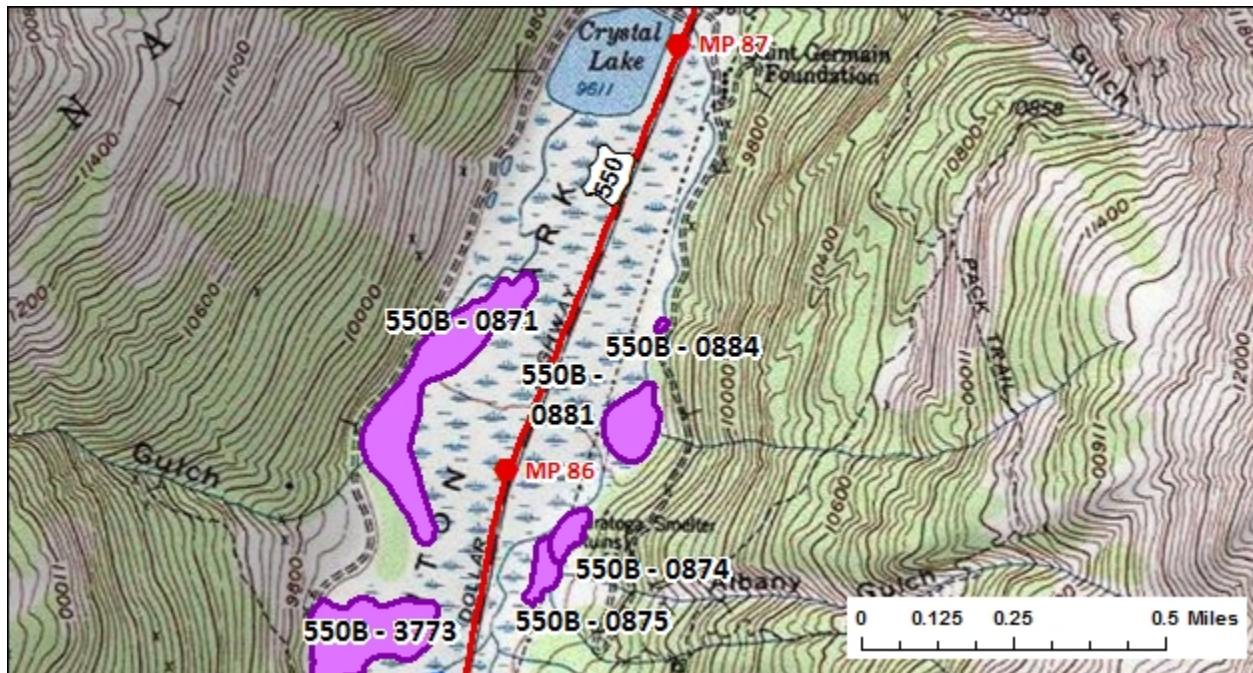
Proximity to Hwy: >200 m (656 ft)

Elevation: 9,623 ft

Size: 0.17 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Small fen adjacent to Red Mountain Creek. Some standing water in polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CAUT	<i>Carex utriculata</i>	7	37.5
B EGL	<i>Betula glandulosa</i>	6	17.5
CACA4	<i>Calamagrostis canadensis</i>	5	7.5
COSC2	<i>Conioselinum scopulorum</i>	3	1.5
CACA11	<i>Carex canescens</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
HILA5	<i>Hippochaete laevigata</i>	2	0.5
JUARA4	<i>Juncus arcticus</i> ssp. <i>ater</i>	2	0.5
LIDIA	<i>Limnorchis dilatata</i> ssp. <i>albiflora</i>	2	0.5
SETR	<i>Senecio triangularis</i>	2	0.5
CACO6	<i>Cardamine cordifolia</i>	1	0.1
GATRS2	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
SAPL2	<i>Salix planifolia</i>	1	0.1
SAWO	<i>Salix wolfii</i>	1	0.1
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	1	0.1

Fen Polygon: 550B - 0917

Nearest Milepoint: US 550, MP 52

Location: Near Engineer Mountain Road

Surveyed Date: 8/29/2016

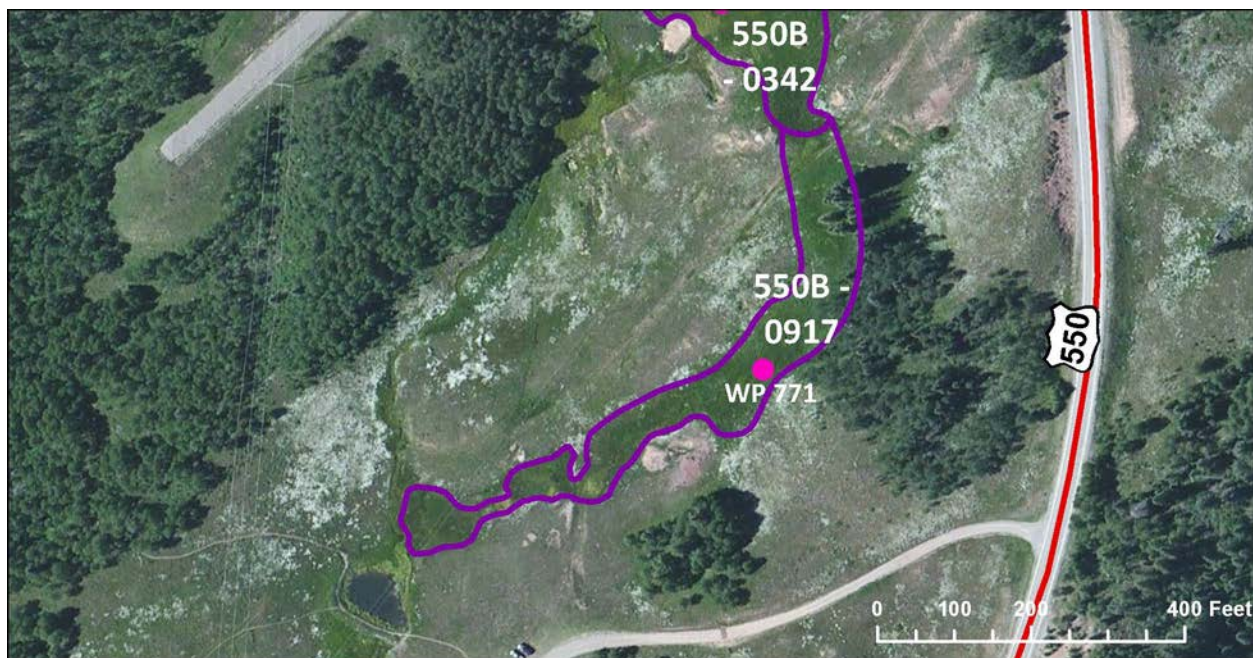
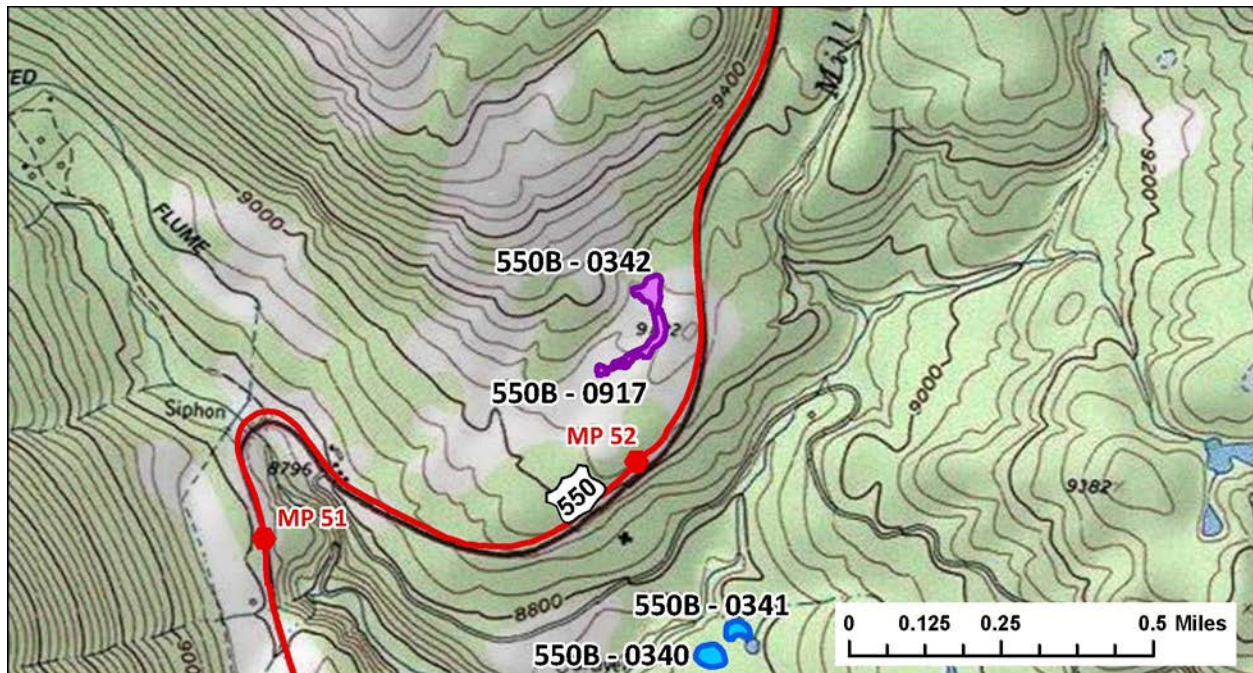
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,081 ft

Size: 1.30 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Fen had over 40 cm peat. Connected to confirmed fen 550B-0342.

Site Photos



Fen Polygon: 550B - 0930

Nearest Milepoint: US 550, MP 59

Location: Between Deer Creek and Old Lime Creek Road

Surveyed Date: N/A

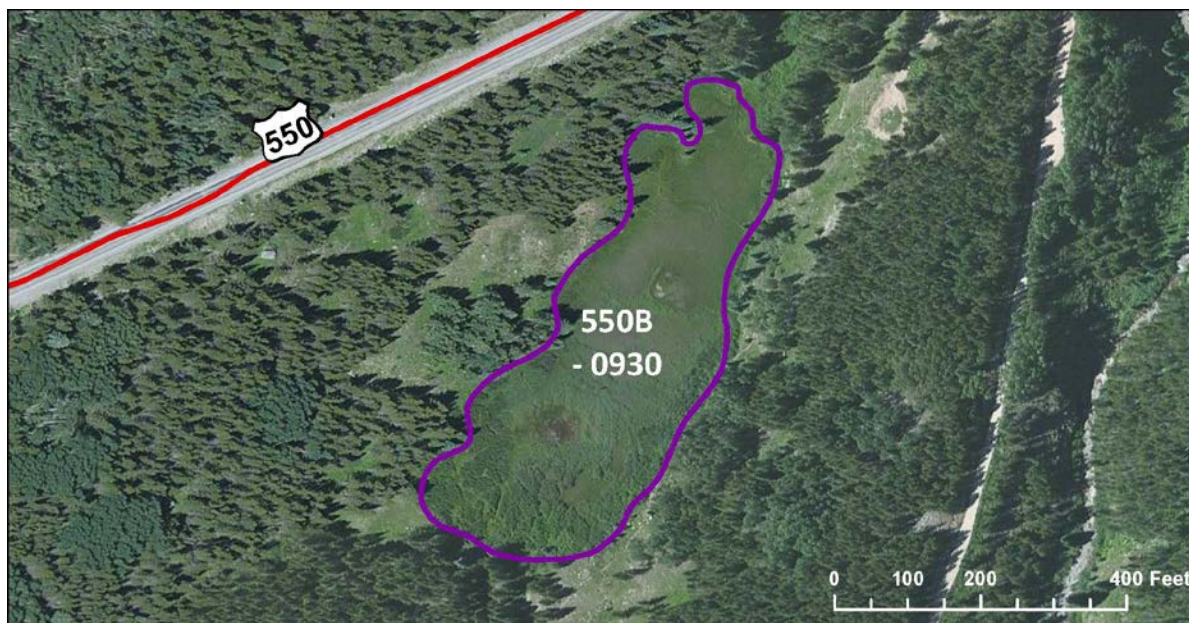
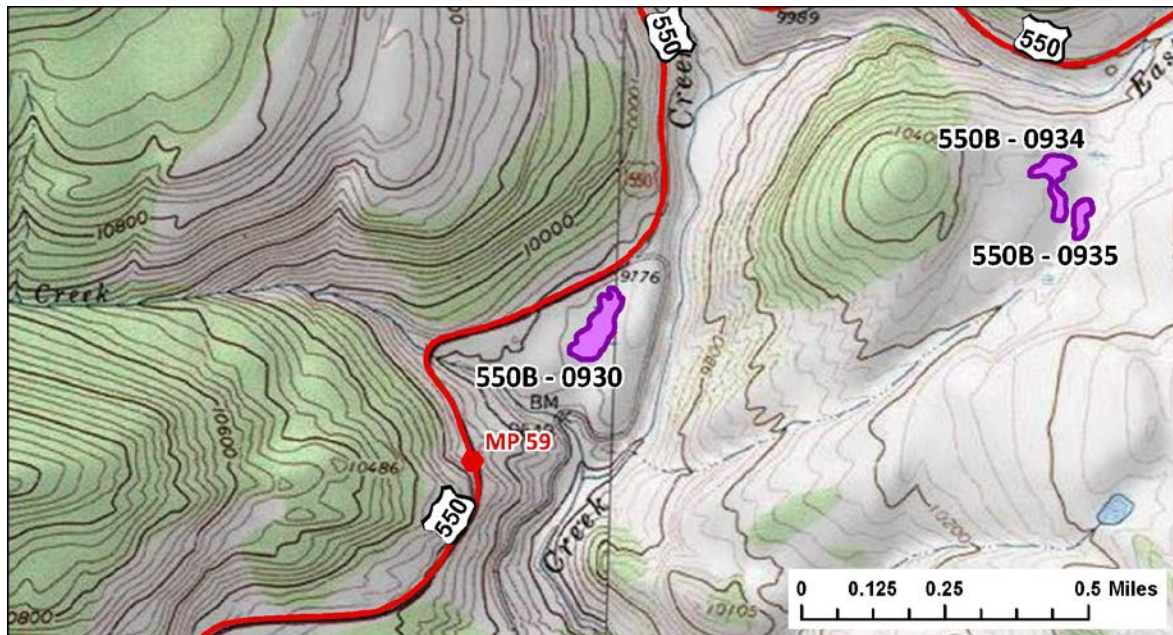
Proximity to Hwy: 25-50 m (82-164 ft)

Elevation: 9,770 ft

Size: 3.39 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0934

Nearest Milepoint: US 550, MP 61

Location: South of East Lime Creek

Surveyed Date: N/A

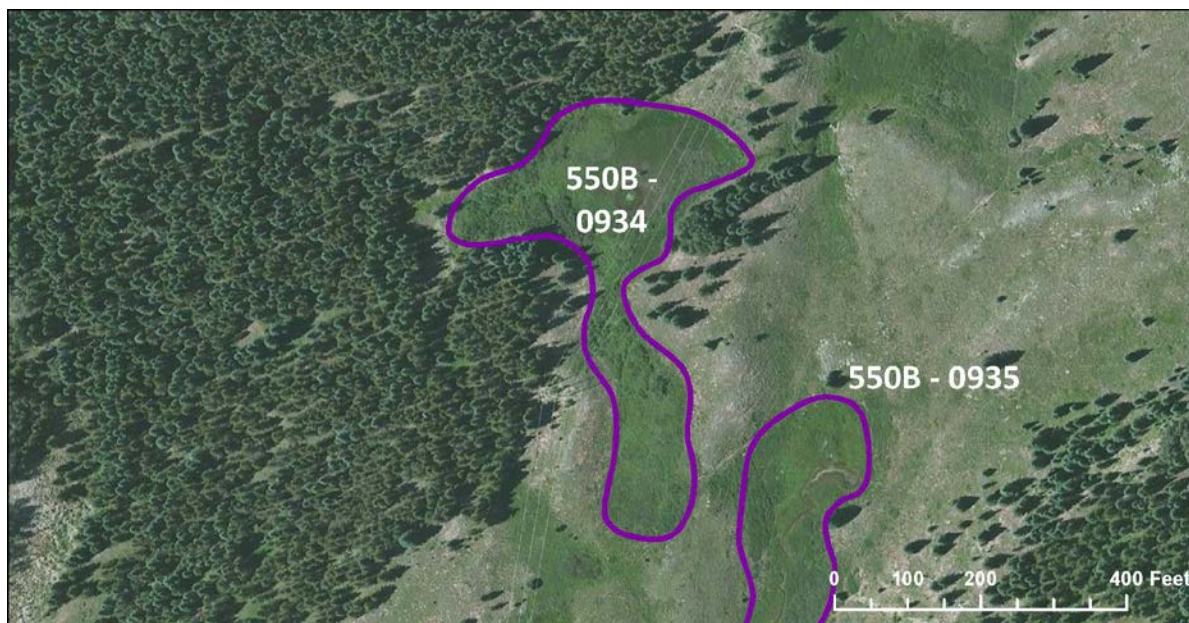
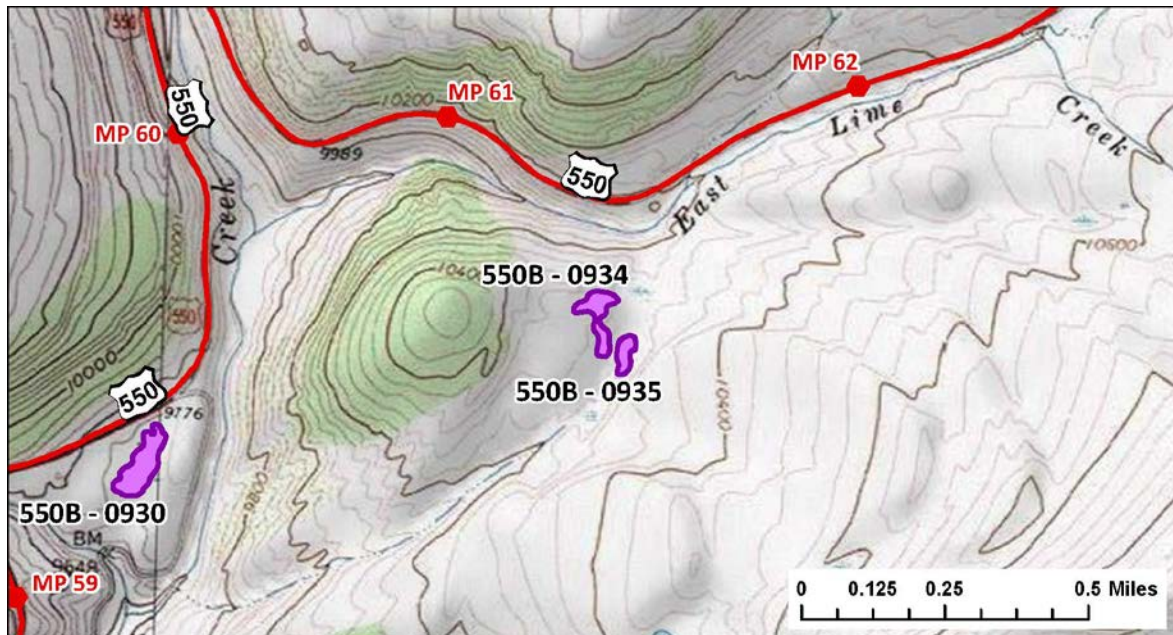
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,312 ft

Size: 2.10 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0935

Nearest Milepoint: US 550, MP 61

Location: South of East Lime Creek

Surveyed Date: N/A

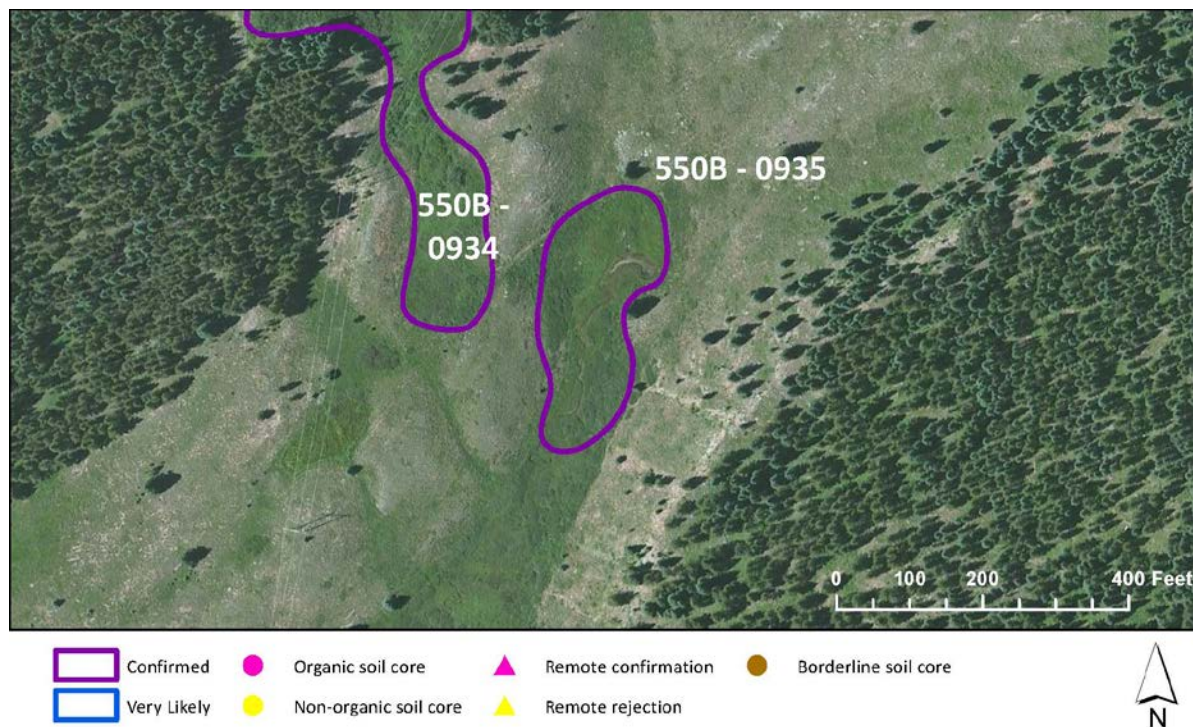
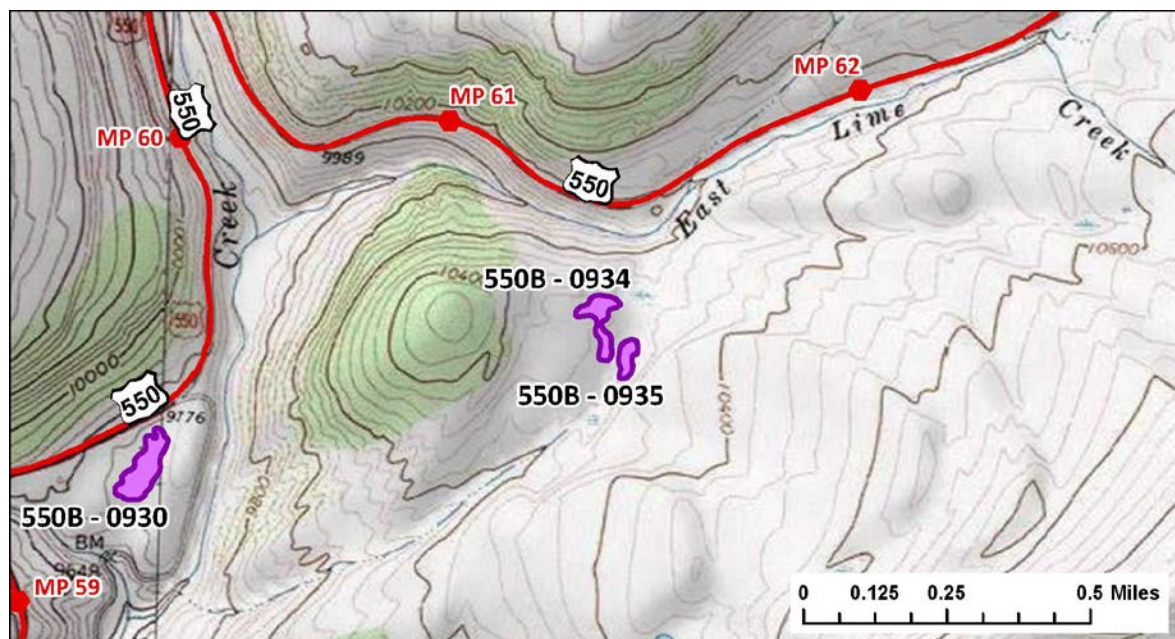
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,262 ft

Size: 1.00 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0941

Nearest Milepoint: US 550, MP 63

Location: North of Andrews Lake

Surveyed Date: 8/29/2016

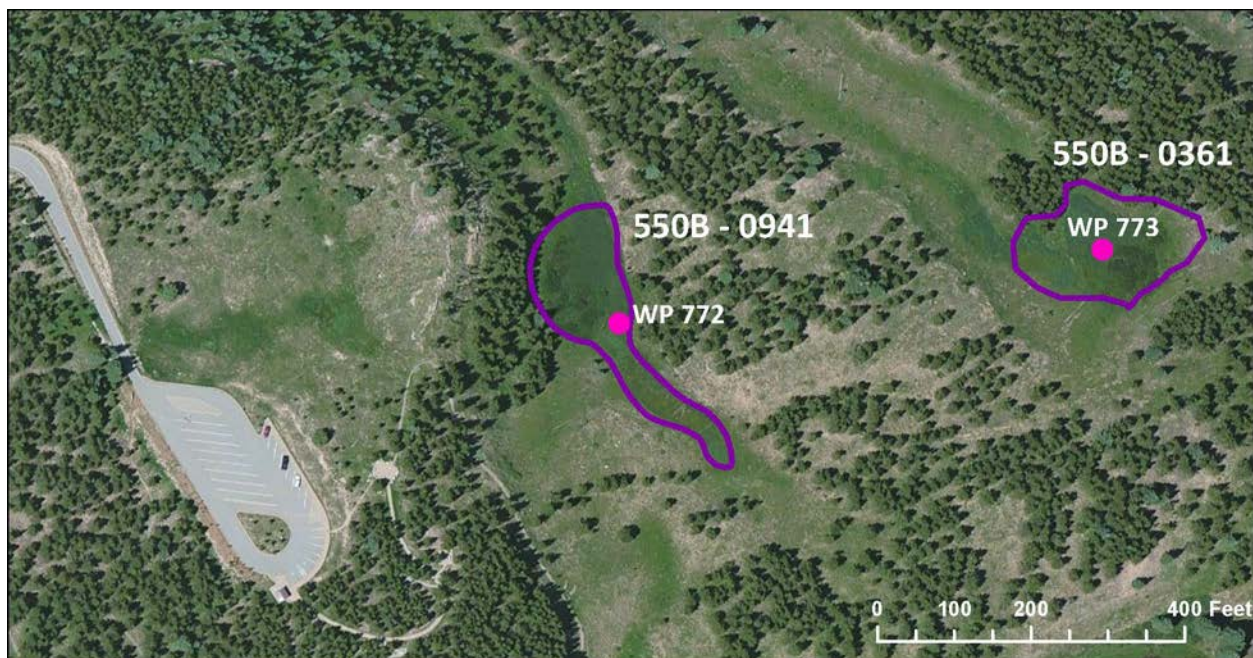
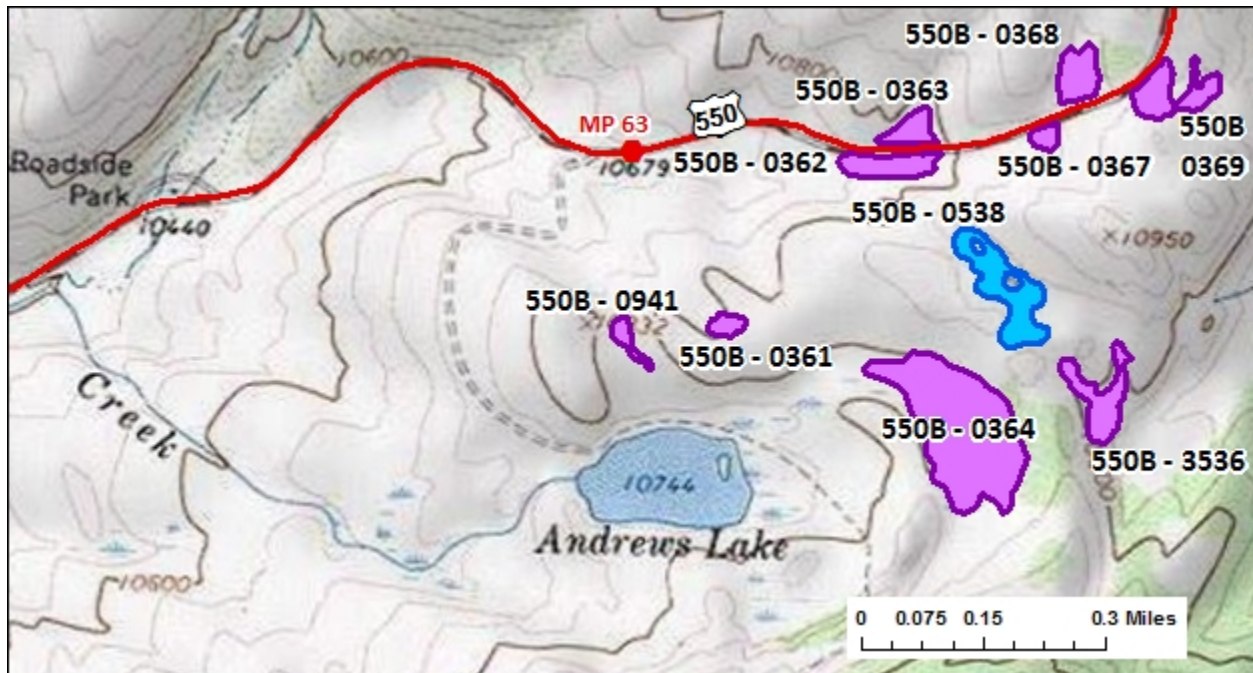
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,810 ft

Size: 0.60 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Depressional fen, dominated by *Calamagrostis* and *Carex* species. Polygon bordered by *Pinus contorta*.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CACA4	<i>Calamagrostis canadensis</i>	8	62.5
CAUT	<i>Carex utriculata</i>	6	17.5
CAIL	<i>Carex illota</i>	3	1.5
CANO3	<i>Carex nova</i>	2	0.5
PSLE	<i>Psychrophila leptosepala</i>	2	0.5
SAPL2	<i>Salix planifolia</i>	2	0.5
VETE4	<i>Veratrum tenuipetalum</i>	2	0.5
CLRH2	<i>Clementsia rhodantha</i>	1	0.1
GEMAP	<i>Geum macrophyllum</i> var. <i>perincisum</i>	1	0.1
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i>	1	0.1
VERON	<i>Veronica</i>	1	0.1

Fen Polygon: 550B - 0953

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: 8/29/2016

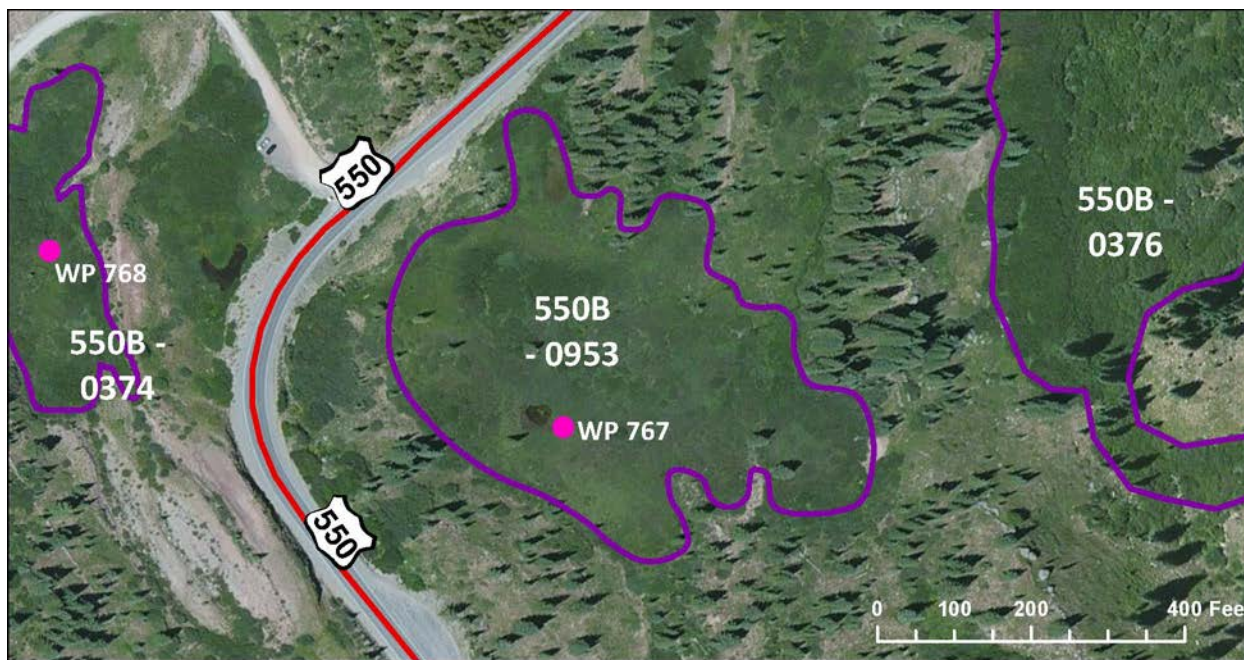
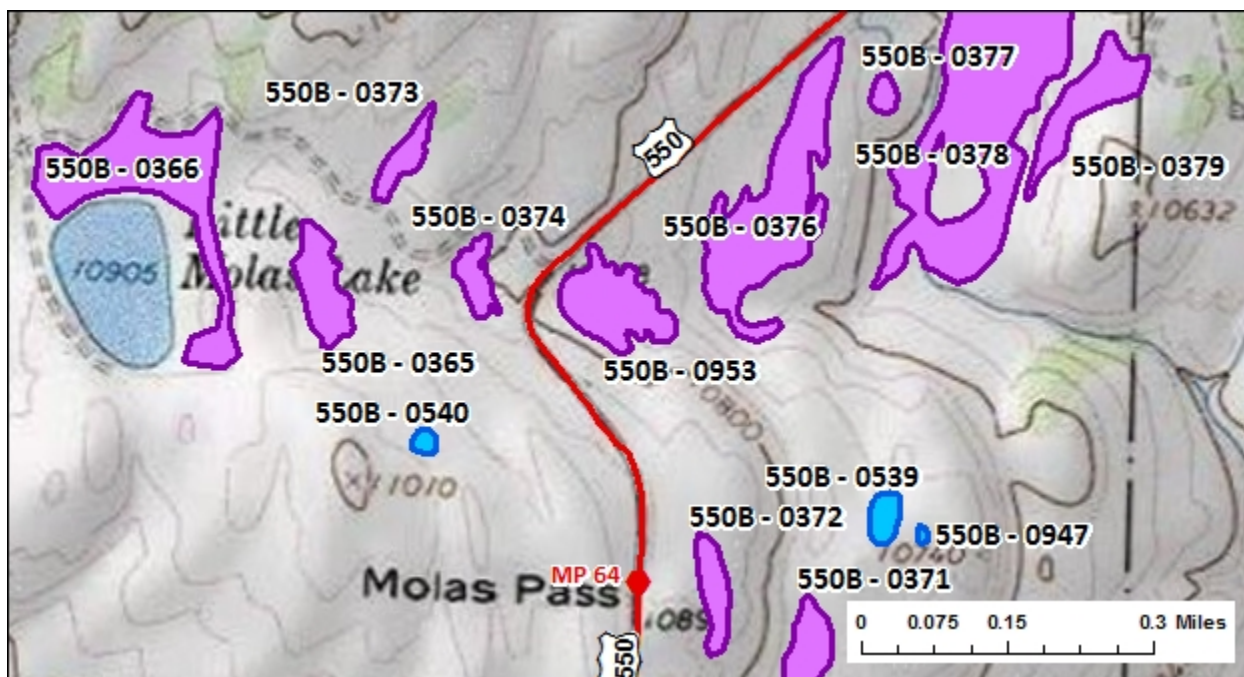
Proximity to Hwy: 5-10 m (16-33 ft)

Elevation: 10,764 ft

Size: 4.60 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large depressional fen, with deep peat and standing on water site.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
PEFL15	<i>Pentaphylloides floribunda</i>	6	17.5
SAPL2	<i>Salix planifolia</i>	6	17.5
CAAQ	<i>Carex aquatilis</i>	5	7.5
CABU6	<i>Carex buxbaumii</i>	5	7.5
CAUT	<i>Carex utriculata</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
PSLE	<i>Psychrophila leptosepala</i>	4	3.5
ANTEN	<i>Antennaria</i>	3	1.5
CAIL	<i>Carex illota</i>	3	1.5
ELQU2	<i>Eleocharis quinqueflora</i>	3	1.5
LUPA4	<i>Luzula parviflora</i>	3	1.5
COSC2	<i>Conioselinum scopulorum</i>	2	0.5
EPILO	<i>Epilobium</i>	2	0.5
POEA	<i>Podistera eastwoodiae</i>	2	0.5
BIBI5	<i>Bistorta bistortoides</i>	1	0.1
CACA12	<i>Carex capillaris</i>	1	0.1
F-GENTI	<i>Gentianaceae</i>	1	0.1
SETR	<i>Senecio triangularis</i>	1	0.1

Fen Polygon: 550B - 0961

Nearest Milepoint: US 550, MP 66

Location: Below Molas Lake

Surveyed Date: N/A

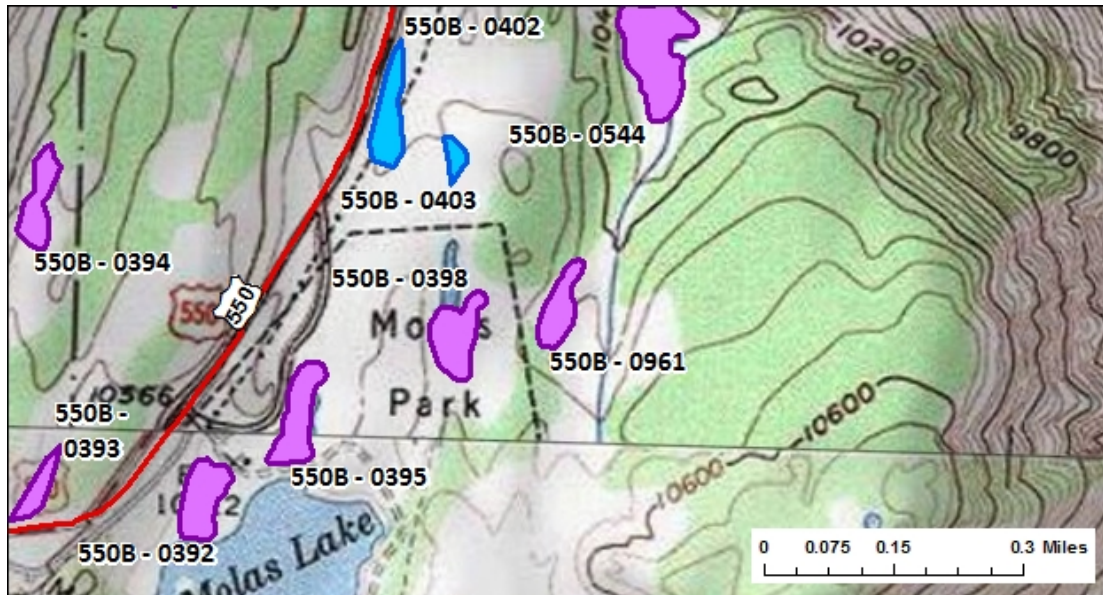
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,482 ft

Size: 1.80 acres

ROW Status: Beyond ROW, *not* contiguous to wetlands within ROW

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0964

Nearest Milepoint: US 550, MP 67

Location: Below Sultan Mountain

Surveyed Date: N/A

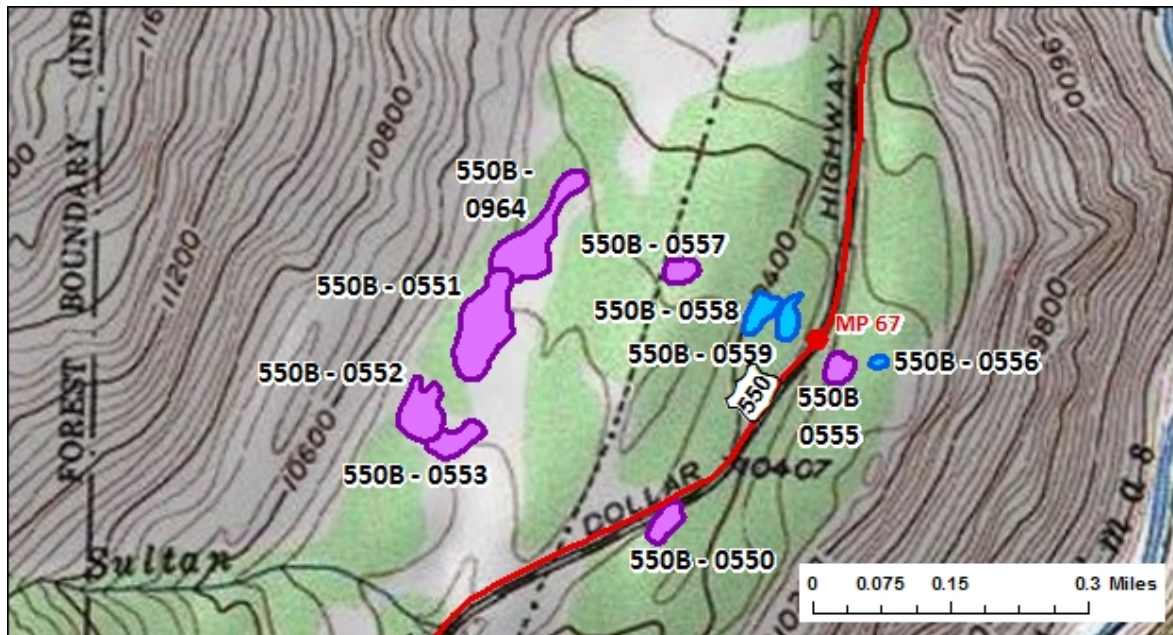
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,482 ft

Size: 2.63 acres

ROW Status: Public Easement

Primary Landowners: Bureau of Land Management



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 0970

Nearest Milepoint: US 550, MP 77

Location: Near Mineral Creek

Surveyed Date: 8/28/2016

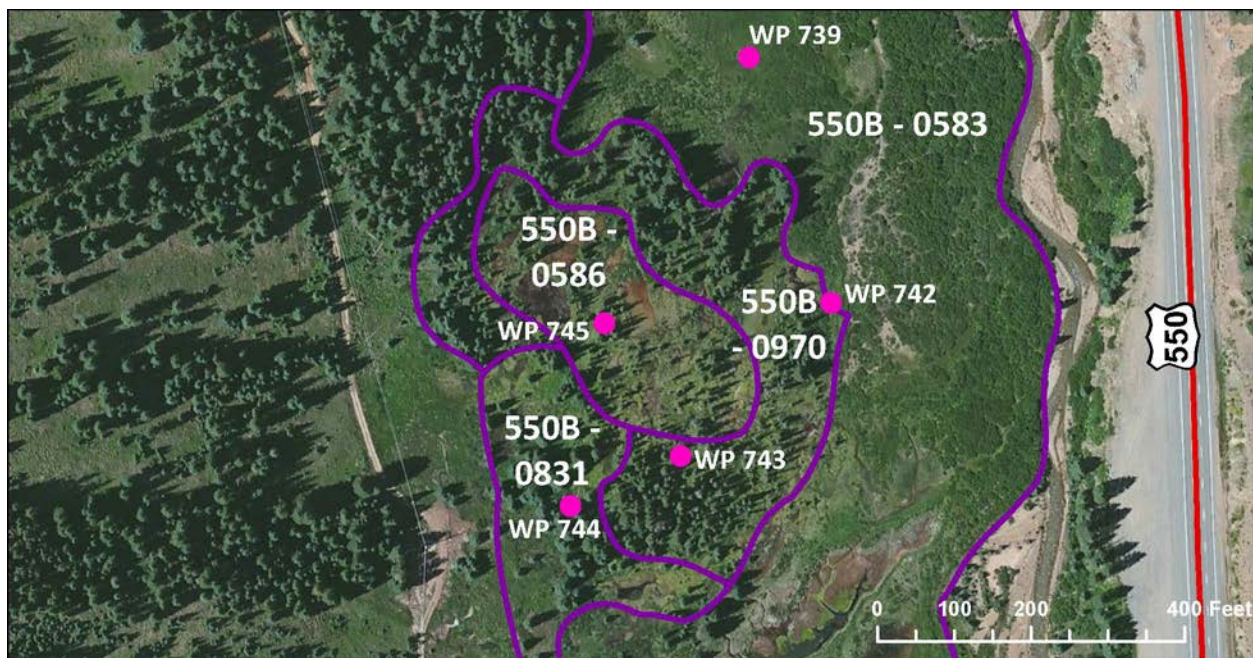
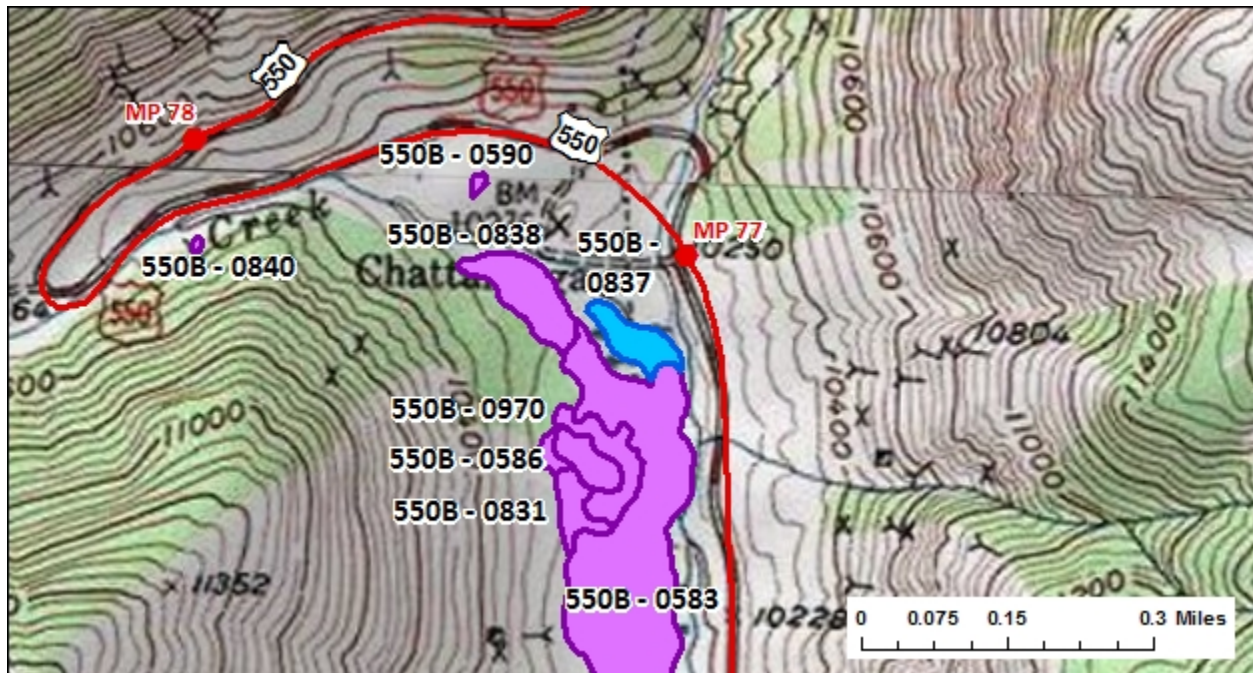
Proximity to Hwy: 100-150 m (328-492 ft)

Elevation: 10,246 ft

Size: 3.07 acres

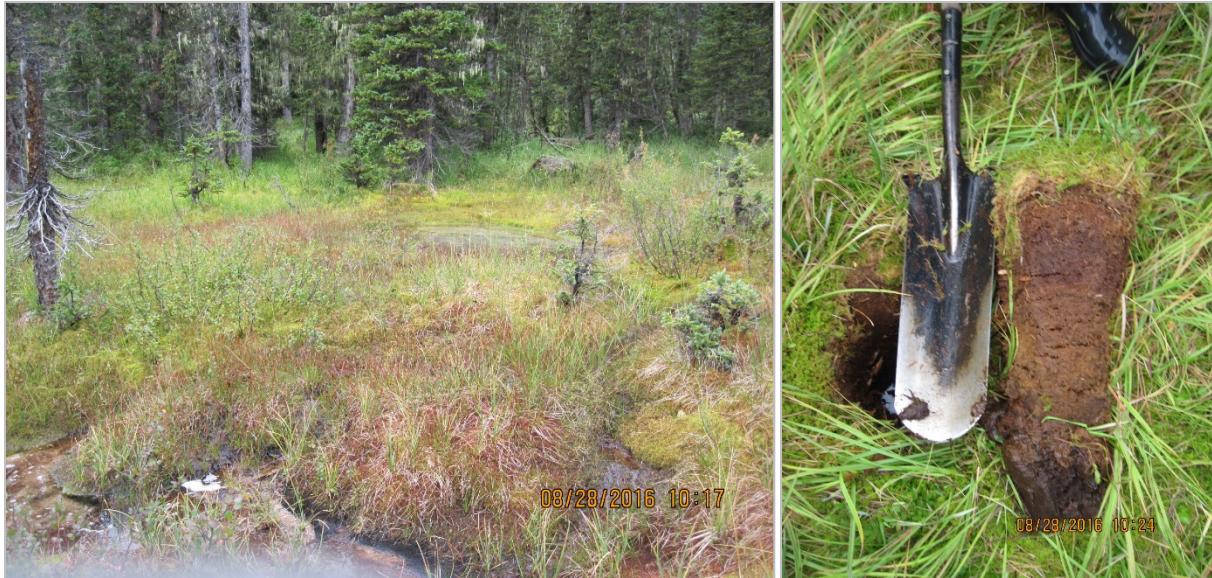
ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Large fen at base of slope. Appears to have springs within the polygon.

Site Photos



Species List

Species Code	Scientific Name	Cover Class	Cover Midpoint
CAAQ	<i>Carex aquatilis</i>	7	37.5
CACA4	<i>Calamagrostis canadensis</i>	7	37.5
PIEN	<i>Picea engelmannii</i>	6	17.5
B EGL	<i>Betula glandulosa</i>	5	7.5
VIMAP3	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	5	7.5
DECE	<i>Deschampsia cespitosa</i>	4	3.5
VASC	<i>Vaccinium scoparium</i>	3	1.5
ABBI3	<i>Abies bifolia</i>	2	0.5
LIBO3	<i>Linnaea borealis</i>	1	0.1
LUPA4	<i>Luzula parviflora</i>	1	0.1
MAAM6	<i>Maianthemum amplexicaule</i>	1	0.1

Fen Polygon: 550B - 3536

Nearest Milepoint: US 550, MP 64

Location: Molas Pass

Surveyed Date: N/A

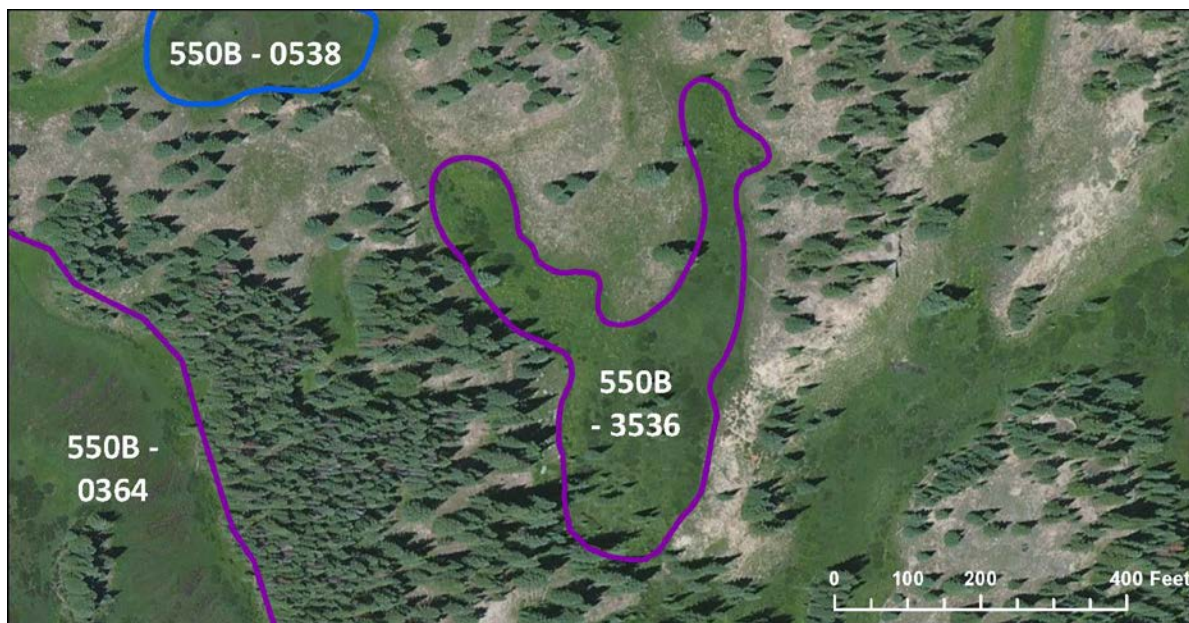
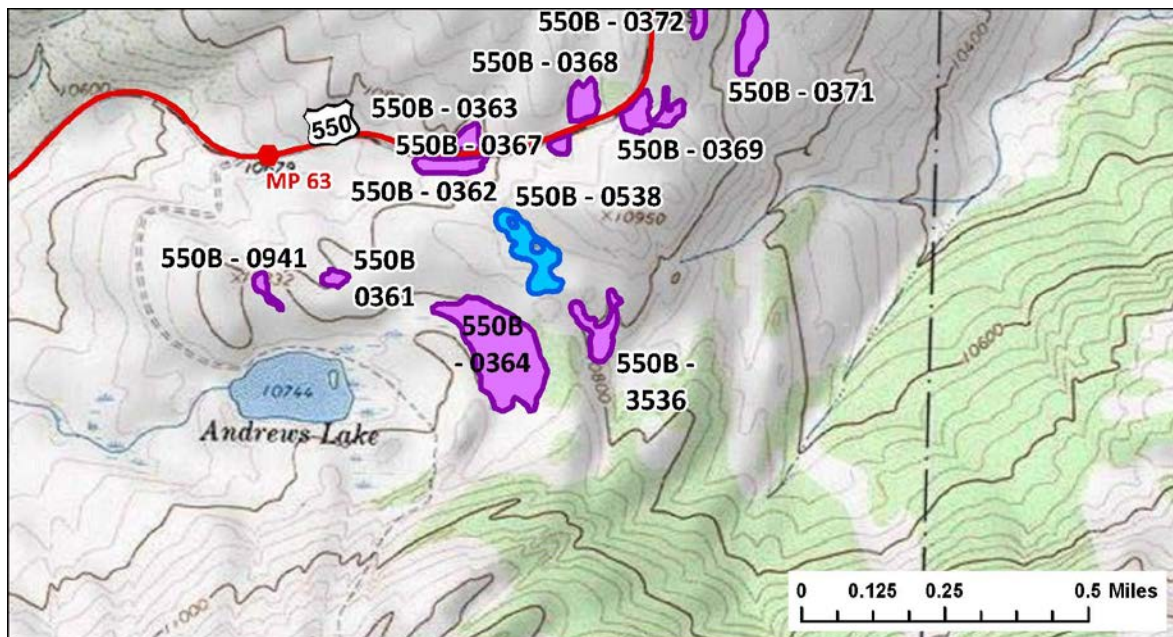
Proximity to Hwy: >200 m (656 ft)

Elevation: 10,823 ft

Size: 2.62 acres

ROW Status: Public Easement

Primary Landowners: San Juan National Forest



Description: Not surveyed. Fen confirmed by previous survey (Chimner, R.A., J. Lemly, D.J. Cooper, and K. Northcott, 2006).

Fen Polygon: 550B - 3773

Nearest Milepoint: US 550, MP 86

Location: Adjacent to County Road 20W

Surveyed Date: N/A

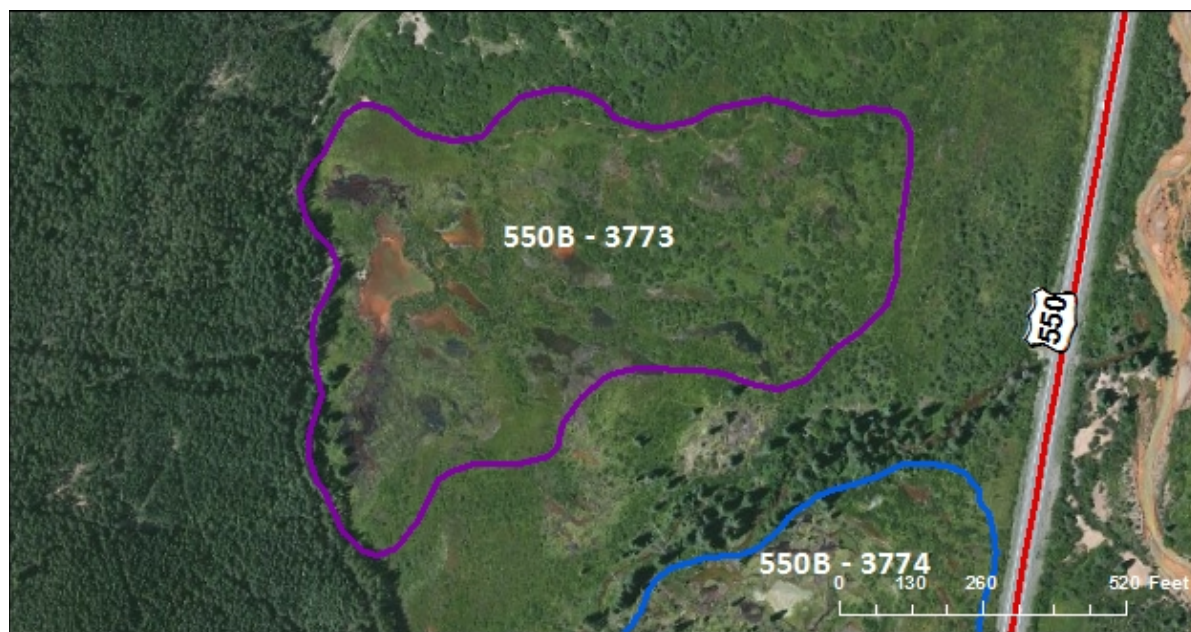
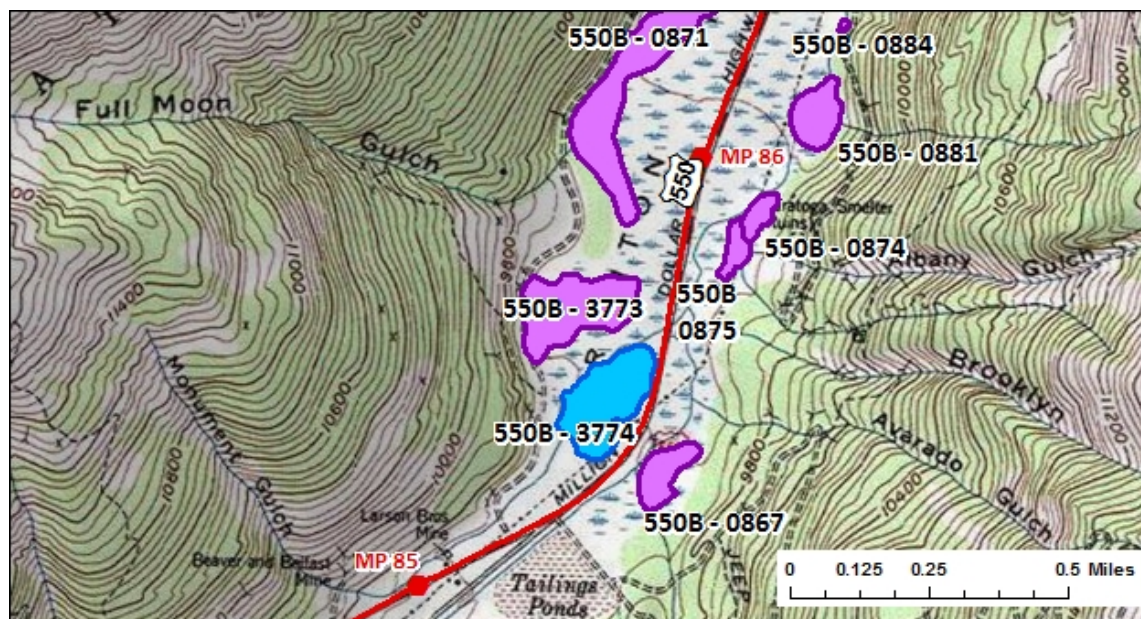
Proximity to Hwy: 75-100 m (246-328 ft)

Elevation: 9,675 ft

Size: 13.68 acres

ROW Status: Public Easement

Primary Landowners: Uncompahgre National Forest



Description: Not surveyed, far from road. Polygon is a confirmed fen from previous survey (Chimner, R.A, J. Lemly, D.J. Cooper, and K. Northcott, 2006).