

1. Small Wetland Area on the North Side of Dry Gulch. Photo is Looking West Toward Dry Gulch Culvert under Wadsworth Boulevard



2. Looking East from Wadsworth Boulevard along Dry Gulch. Small Wetland to the North



3. SP3. Soil Pit
in the Dry Gulch
Upland



4. SP4. Soil Pit
in the Dry Gulch
Wetland



5. Northwest
Fringe of
Lakewood
Gulch



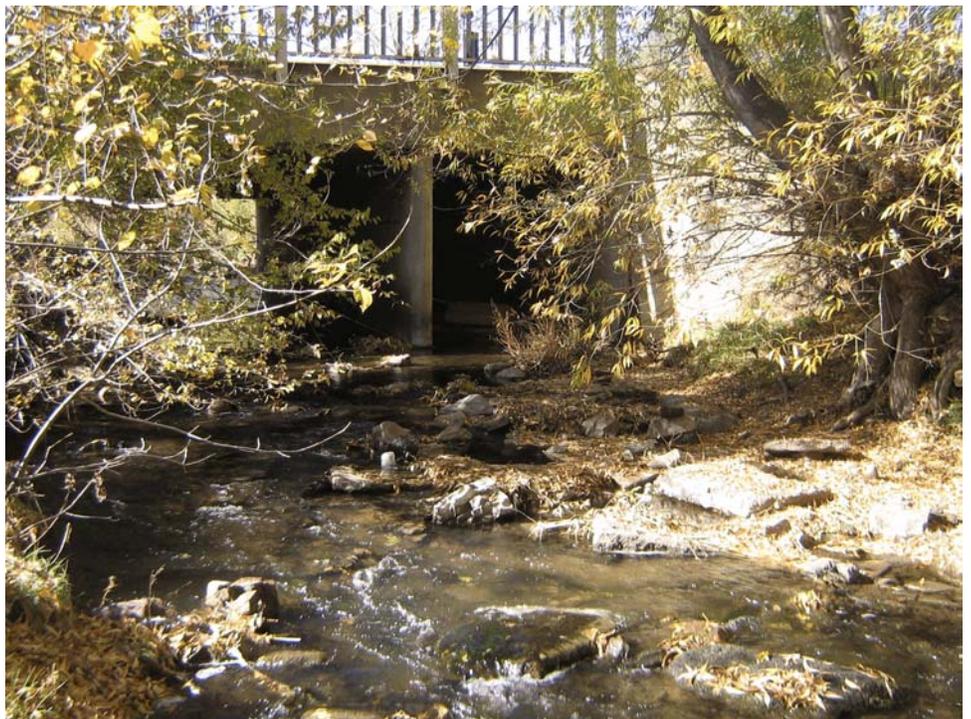
6. Looking
West along
Lakewood
Gulch from
Wadsworth
Boulevard



7. SP2. Soil Pit
in the Upland
along Lakewood
Gulch



8. Looking
West along
Lakewood
Gulch towards
the Wadsworth
Boulevard
Crossing



9. SP1. Soil Pit is a Small Fringe Wetland along Lakewood Gulch



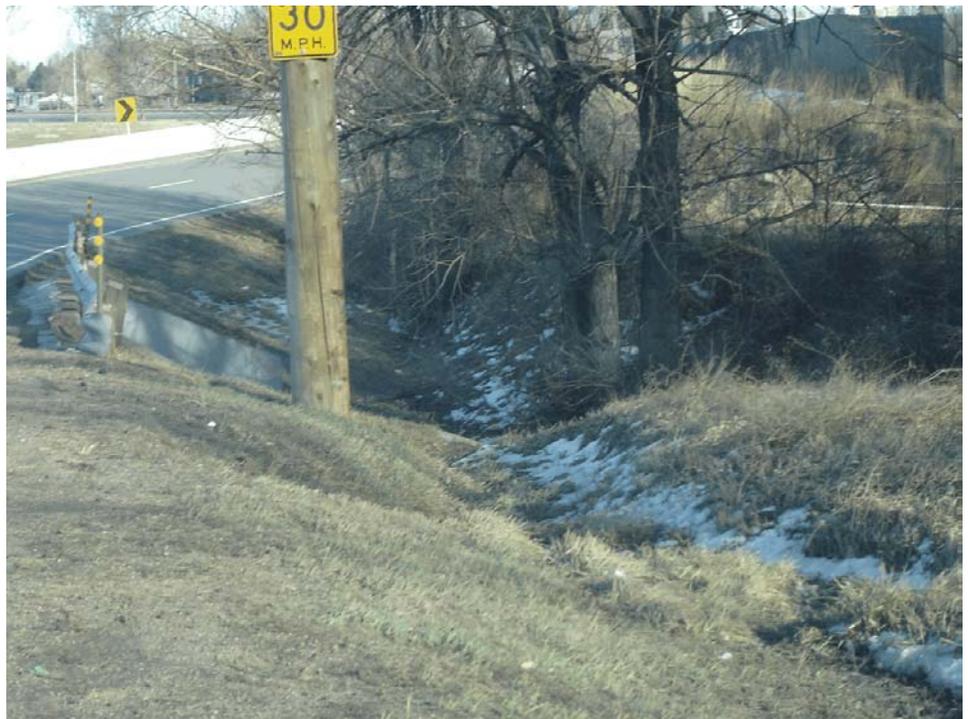
10. Riparian Habitat along McIntyre Gulch



11. McIntyre
Gulch



12. SD-01.
Storm Water
Depression near
McIntyre Gulch.
Similar to SD-02
through SD-07



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>US 6 and Wadsworth-Lakewood Gulch</u>	Date: <u>11/2/07</u>
Applicant/Owner: <u>CDOT</u>	County: <u>Jefferson</u>
Investigator: <u>Matt Santo and Shannon Sikorski</u>	State: <u>Colorado</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: <u>Wetland</u>
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>A</u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>SP1</u>
(If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Bromis inermis</u>	<u>H</u>	<u>NI</u>	9. _____	_____	_____
2. <u>Populus deltooides-</u>	<u>T</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Ulmus pumila</u>	<u>T</u>	<u>NI</u>	11. _____	_____	_____
4. <u>Salix amygdaloides</u>	<u>T</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC
(excluding FAC-). 50%

Remarks: Small bench along the south side of Lakewood Gulch. Not much herbaceous layer, mostly dominated by an overstory of trees.

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches
Field Observations: Depth of Surface Water: <u>None</u> (in.)	

Depth to Free Water in Pit: None (in.)

Depth to Saturated Soil: 0 (in.)

- Water-Stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other (Explain in Remarks)

Remarks: Soil is moist and dark. Drift lines are present on nearby shrubs.

SOILS

Map Unit Name

(Series and Phase): Englewood Urban Land complex- 0-2 percent slopes

Drainage Class: _____

Taxonomy (Subgroup): Urban Land

Field Observations _____

Confirm Mapped Type? Yes No

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-12	A	7.5YR 3/2	NA	NA	Clayey Sand
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma Colors
- Concretions
- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

Remarks: Dark and moist sandy soil.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Check)

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

(Check)

Is this Sampling Point Within a Wetland? Yes No

Remarks Small bench on the inside of a meander in Lakewood Gulch.

Approved by HQUSACE 3/92

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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>US 6 and Wadsworth-Lakewood Gulch</u>	Date: <u>11/2/07</u>
Applicant/Owner: <u>CDOT</u>	County: <u>Jefferson</u>
Investigator: <u>Matt Santo and Shannon Sikorski</u>	State: <u>Colorado</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: <u>Upland</u>
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>B</u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>SP2</u>
(If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Bromus inermis</u>	<u>H</u>	<u>NI</u>	9. _____	_____	_____
2. <u>Bromus japonicus</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Ulmus pumila</u>	<u>T</u>	<u>NI</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC
(excluding FAC-). 0%

Remarks: Some bare ground. Pit is located on the north side of Lakewood Gulch, on a bench about five feet above ordinary high water mark.

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required):
Field Observations:	

Depth of Surface Water: None (in.)

Depth to Free Water in Pit: None (in.)

Depth to Saturated Soil: None (in.)

Oxidized Root Channels in Upper 12 Inches

Water-Stained Leaves

Local Soil Survey Data

FAC-Neutral Test

Other (Explain in Remarks)

Remarks: Dry.

SOILS

Map Unit Name

(Series and Phase): Nunn-urban land complex- 0-2 percent slopes

Drainage Class: _____

Taxonomy (Subgroup): Urban land

Field Observations _____

Confirm Mapped Type? Yes No

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 3/2	NA	NA	Clayey Sand
6-12	B	10YR 4/3	NA	NA	Sand
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: Dry soil with a lot of roots from the surrounding trees.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Check) Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Check) Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks This area is approximately five feet above the ordinary high water mark. It is on the outside of a small cut bank that has carved out an approximate five foot tall wall on its curve.	

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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>US 6 and Wadsworth-Dry Gulch</u>	Date: <u>11/2/07</u>
Applicant/Owner: <u>CDOT</u>	County: <u>Jefferson</u>
Investigator: <u>Matt Santo and Shannon Sikorski</u>	State: <u>Colorado</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: <u>Upland</u>
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>SP3</u>
(If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Bromus inermis</u>	<u>H</u>	<u>NI</u>	9. _____	_____	_____
2. <u>Cirsium arvense</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Plantago major</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC
(excluding FAC-). 33%

Remarks: Grassy bench approximately five feet above the ordinary high water mark. Just before the steep slope up to roadway.

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches
Field Observations: Depth of Surface Water: <u>None</u> (in.)	

Depth to Free Water in Pit: None (in.)

Depth to Saturated Soil: None (in.)

- Water-Stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other (Explain in Remarks)

Remarks: Dry.

SOILS

Map Unit Name

(Series and Phase): Englewood Urban Land complex- 0-2 percent slopes

Drainage Class: _____

Taxonomy (Subgroup): Urban Land

Field Observations _____

Confirm Mapped Type? Yes No

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-12	A	10YR 4/3	NA	NA	Clayey sand
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma Colors
- Concretions
- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

Remarks: Dry with some shallow roots throughout.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Check)

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

(Check)

Is this Sampling Point Within a Wetland? Yes No

Remarks Dry grassy area on the north side of Dry Gulch. Approximately five feet above ordinary high water mark.

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DATA FORM
ROUTINE WETLAND DETERMINATION
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Project/Site: <u>US 6 and Wadsworth-Dry Gulch</u>	Date: <u>11/2/07</u>
Applicant/Owner: <u>CDOT</u>	County: <u>Jefferson</u>
Investigator: <u>Matt Santo and Shannon Sikorski</u>	State: <u>Colorado</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: <u>Wetland</u>
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>SP4</u>
(If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex emoryi</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Bromus inermis</u>	<u>H</u>	<u>NI</u>	10. _____	_____	_____
3. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW+</u>	11. _____	_____	_____
4. <u>Ulmus pumila</u>	<u>T</u>	<u>NI</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC
(excluding FAC-). 50%

Remarks: Same bench as SP3 but approximately two feet lower.

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches
Field Observations: Depth of Surface Water: <u>None</u> (in.)	

Depth to Free Water in Pit: None (in.)

Depth to Saturated Soil: 0 (in.)

- Water-Stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other (Explain in Remarks)

Remarks: Two feet lower than SP3. The soil is saturated to the surface and dark.

SOILS

Map Unit Name

(Series and Phase): Englewood Urban Land complex- 0-2 percent slopes

Drainage Class: _____

Taxonomy (Subgroup): Urban Land

Field Observations _____

Confirm Mapped Type? Yes No

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-2</u>	<u>O</u>	<u>Organic matter</u>	<u>NA</u>	<u>NA</u>	<u>Organic, rooty material</u>
<u>2-12</u>	<u>A</u>	<u>2.5YR 0.5/1</u>	<u>None</u>	<u>NA</u>	<u>Clayey sand</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma Colors
- Concretions
- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

Remarks: Wet soil with a lot of organic material in the upper layer.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Check)

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

(Check)

Is this Sampling Point Within a Wetland? Yes No

Remarks

Approved by HQUSACE 3/92

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