2008 Annual Wetland Mitigation Monitoring Report

for the Rocky Flats Site

(Click on the links below to view the wetland report, wetland project photos and forms)

2008 Annual Wetland Mitigation Monitoring Report (PDF Version)

2008 Photopoint Monitoring Photos

Example Wetland Delineation Forms/Qualitative Wetland Assessment Forms

Wetland Locations	Wetland Delineation Forms/ Qualitative Wetland Assessment Forms	Noxious Weed Forms
B116 Wetlands	2008 forms	Noxious weed forms
B131 Wetland	2008 forms	Noxious weed forms
B131 SAEX1 Area	2008 forms	Noxious weed forms
B371 Wetland	2008 forms	NA
B771 North Area Wetland	2008 forms	Noxious weed forms
B771 NW Hillside Wetland	2008 forms	Noxious weed forms

B881 Wetland	2008 forms	Noxious weed forms
Bowman's Pond/B771 Wetland	2008 forms	Noxious weed forms
B-1 Pond Wetland	2008 forms	Noxious weed forms
B-2 Pond Wetland	2008 forms	Noxious weed forms
B-3 Pond Wetland	2008 forms	Noxious weed forms
C-1 Pond Wetland	2008 forms	Noxious weed forms
East Shooting Range Wetland	2008 forms	Noxious weed forms
East Trenches Wetland	2008 forms	Noxious weed forms
Functional Channel 1 Wetland	2008 forms	Noxious weed forms
Functional Channel 1 Road Crossing	2008 forms	Noxious weed forms
Functional Channel 2 Wetland	2008 forms	Noxious weed forms
Functional Channel 2 Hillside Wetland	2008 forms	Noxious weed forms
Functional Channel 2/3 Confluence	2008 forms	Noxious weed forms
Functional Channel 3 Upper Wetland	2008 forms	Noxious weed forms
Functional Channel 3 Lower Wetland	2008 forms	Noxious weed forms
Functional Channel 4 Wetland	2008 forms	Noxious weed forms
Functional Channel 4 Hillside Wetland	2008 forms	Noxious weed forms
Functional Channel 5 Wetlands	2008 forms	NA
Melvin's Way Wetland	2008 forms	Noxious weed forms
Mound East Wetland	2008 forms	Noxious weed forms
Mound West Wetland	2008 forms	Noxious weed forms
Mound SW Wetland	2008 forms	Noxious weed forms
Mound West-West Wetland	2008 forms	Noxious weed forms
Mound Well Wetland	2008 forms	Noxious weed forms
Original Landfill Wetlands	2008 forms	Noxious weed forms
Present Landfill Wetlands	2008 forms	Noxious weed forms
SW093 West Wetland	2008 forms	Noxious weed forms
Solar Ponds Well Area	2008 forms	Noxious weed forms
Solar Pond Discharge Gallery Wetland	2008 forms	Noxious weed forms

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

Project/Site: _____ Applicant/Owner: _____ Investigator: _____	Date: _____ County: _____ State: _____
Do Normal Circumstances exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.			9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____(in.)

Depth to Free Water in Pit: _____(in.)

Depth to Saturated Soil: _____(in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date_____
Observer(s)_____
Location ID_____

Photographs taken today? Y N

Are desired wetland plant species present? Y N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

_____
_____
_____
_____
_____
_____
_____
_____

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

_____
_____
_____
_____
_____

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Other comments:

Completed by:_____Date_____

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels—	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Bill Wetland Transect ID: — Plot ID: A

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1206	1. SAEXI	S		1215	9. GRSQI	H		<1
1207	2. TARAI	S		1216	10. CEDII	H		<1
1208	3. SCPUI	H		1217	11. PLLAI	H		<1
1209	4. JUBAI	H		1218	12. LASEI	H		<1
1210	5. ELCAI	H		1219	13. CIARI	H		<1
1211	6. TYLAI	H		1220	14. OEVII	H		<1
1212	7. PAVII	H			15.			
1213	8. FEPRI	H			16.			
1214	MEALI	H						

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Dry today

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKW
Location ID Bill Wetland - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

See below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Area is very dry this year due to drought conditions. SAEXI patches are increasing annually in size & extent.

Woody Plant Counts

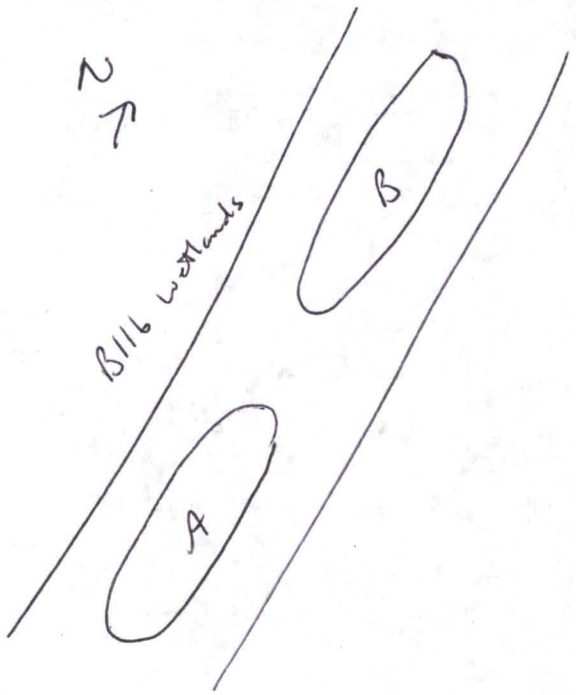
		Height			Width			
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**	
SAEXI	too many to count	2'	7'	8'	2'	6'	12'	
TARAI	1	1'			2"			broken off

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - spray as needed - hillslopes were sprayed w/ Milestone - 2008 - so looking very good in area.

Other comments:



Completed by: Jody K Nels— Date 8/19/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels-	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B116 Wetland Transect ID: – Plot ID: B

% Actual cov

VEGETATION

	Dominant Plant Species	Stratum	Indicator					
1221	1. SAEXI	S		1230	9. AMPSI	H		<1
1222	2. FEPRI	H		1231	10. HOJUI	H		<1
1223	3. CIARI	H		1232	11. PLMAI	H		<1
1224	4. ELCAI	H		1233	12. LASEI	H		<1
1225	5. AGSMI	H			13.			
1226	6. MEALI	H			14.			
1227	7. GRSQI	H			15.			
1228	8. PAVII	H			16.			
1229	AGCAI	H						

55%
30
<1
2
<1
<1
<1
3
1

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	NA	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Area dry today.

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Bill wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

see below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Area dry now & because of drought this year. SAEXI has established & is slowly filling in - not as well as location A however.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	too many to count	3'	5'	5	2'	6'	4'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds + control as needed. Hillsides sprayed w/ Milestone - 2008.

Other comments:

Area needs more water to really develop as a nice wetland area.

Completed by: Jody K Nelson Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location B116 wetlands

Noxious Weed Species Present:

CIAR1 - 1%

Comments/Notes:

Area dry today.

Jody Nelson — Print Name
Signature
6/11/08 — Date

Wetland Noxious Weed Survey Form

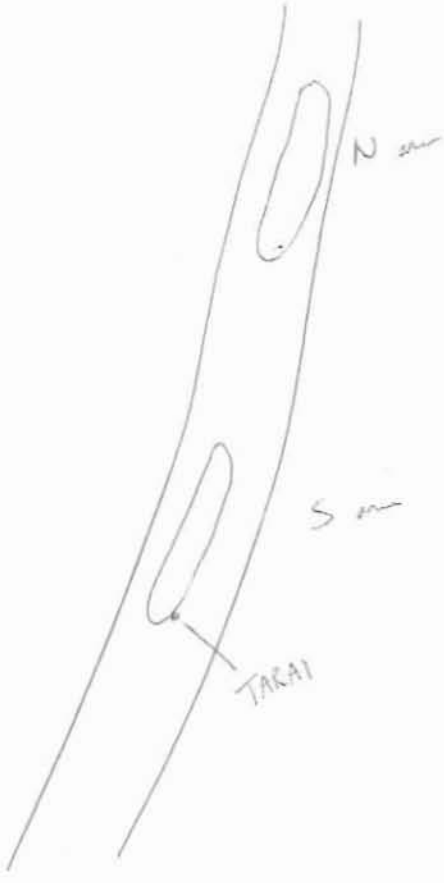
Observer —Jay Nels— Date 7/14/08
Location B116 Wetlands

Noxious Weed Species Present:

TARAL - <1% (1 plot)

Comments/Notes:

Planted SAEXI are now very large clumps - looking great!



—Jay K Nels— JKN 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08
Location Bill Wetlands

Noxious Weed Species Present:

TARAI - <1% - could not pull this one
CIARI - <1%

Comments/Notes:

SAEXI doing excellent.
PAVII coming up nicely.

Jody K Nods — JK Nods — 8/13/08
Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B131 Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1156	1. ELMA1	H		1165	9. JUBA1	H		1
1157	2. JUTO1	H		1166	10. AGSM1	H		FAC
1158	3. TYLA1	H		1167	11. CIAR1	H		FAC
1159	4. PLMA1	H		1168	12. SPPE1	H		FAC
1160	5. JUAU1	H		1169	13. SCVA1	H		OBL
1161	6. HOJU1	H		1170	14. POMO1	H		FAC
1162	7. KOSC1	H		1171	15. SPME1	H		1
1163	8. AGCA1	H		1172	16. PODE1	T		FAC
1164	FEPR1	H		1173	AMAR1	H		FAC

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

Remarks: AGSC1 - H - FAC 1174 LEFA1 - H - FAC 1177 LASE1 - H - FAC 1180 POPE2 - H - FAC 1184
ELCA1 - H - FAC 1175 PAVI1 - H - FAC 1178 MEOF1 - H - FAC 1181
ECCR1 - H - [redacted]2 1176 OEVI1 - H - FAC 1179 ARZU1 - H - FAC 1182
PLLA1 - H - FAC 1183

JB 8/19/08

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 2-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Standing & flowing water in wetland today. From last weekends 2"+ rainfall.

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

NOT DONE

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID B131 Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Earlier in summer during very dry conditions some of hydrophytic plants were drying up. But wet conditions now are reviving them.

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - in normal rainfall year. Been dry this year

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODE1	~~PODE~~ 1	8"			2"		
	8/19/08						

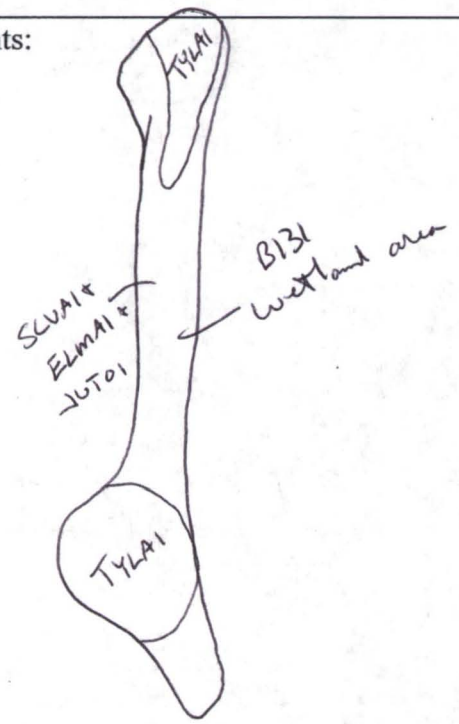
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control if needed.

Otherwise as water is available the wetland plants are spreading slowly.

Other comments:



Completed by: Jody K Nelson Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location B131 wetland

Noxious Weed Species Present:

CIARI - <1%
SOARI - <1%
CEDII - <1%

Comments/Notes:

Bottom of wetland is wet all the way across today. Lots of sedge/bulrush coming up.

Jody Nelson — Print Name
Signature
6/11/08 — Date

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 7/14/08
Location B131 Wetland

Noxious Weed Species Present:

CEDI = # <1%
SOARI = <1%
CIARI = <1%

Comments/Notes:

Area dry Today

Jody K Nelson — 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKW Date 8/13/08

Location B131 Wetland

Noxious Weed Species Present:

SOAR1 - <10%

Comments/Notes:

Areas on Filling in along length of where old road used to be. Few more years & may look good. Very dry right now.

Jody K Nash JKW 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: ~~Jefferson~~ 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B131 SAE X1 Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1185	1. SAEX1	S		1194	9. BOGR1	H		1
1186	2. ALMI1	H		1195	10. MEOF1	H		<1
1187	3. CIAR1	H		1196	11. ASSP1	H		<1
1188	4. PLLA1	H		1197	12. COAR1	H		<1
1189	5. CEDI1	H		1198	13. BUDA1	H		<1
1190	6. AGCA1	H		1199	14. AMPS1	H		<1
1191	7. GRSQ1	H		1200	15. ERCI1	H		<1
1192	8. TRDU1	H		1201	16. LASE1	H		<1
1193	BOCU1	H		1202	AGSM1	H		<1

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

Remarks: KOSC1 - H - <1 (1203)
SCLA1 - H - <1 (1204)
BRJA1 - H - <1 (1205)

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	? (in.)
Depth to Free Water in Pit:	? (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Saturated today - due to 2"+ rain over weekend.

MGH 12/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not Done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID B131 SAEXI Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Maybe - see below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

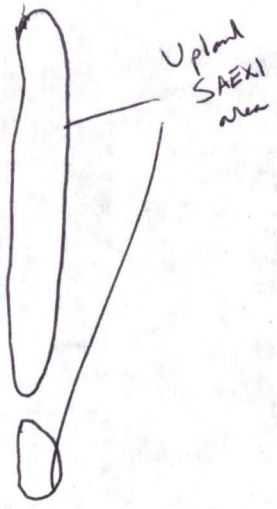
Maybe - surface typically dry - yet SAEXI grows here - so must be subsurface moisture.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	hundreds too many to count	2'	4'	3'	1.5	5'	4'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:



Watch for weeds - control as needed.

Other comments:

SAEXI are doing very well - getting larger & filling in stand more.

Completed by: Jody K Nels— JKN Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 6/11/08
Location B13Φ SAEXI area

Noxious Weed Species Present:

CIARI - 1%
CEDI - 1%
ERCI - <1%
SOARI - <1%

Comments/Notes:

SAEXI doing well this spring.

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nels— Date 7/14/08
Location B13L SAEXI wetland

Noxious Weed Species Present:

CEDI1 - <1% SOARI - <1%
CIARI - 10%
COARI - <1%
ERCI1 - <1%

Comments/Notes:

Very dry today.

Lots of CEDI1 beautiful present today.

Jody K Nels— 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location B131 SAEX1 area

Noxious Weed Species Present:

CEDI1 - 1%.

CIAR1 - 1%.

Comments/Notes:

SAEX doing very well.

Jody K Nods — JK Nods — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats DOE Lm Applicant/Owner: Investigator: Jody Nelson	Date: 8/25/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: ~~FC2 Hillside~~ Wetland Transect ID: — Plot ID: —

B371 Hillside

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. JUTO1	H	
2. SCVA1	H	
3. AGCA1	H	
4. AGSM1	H	
5. ECCR1	H	
6.		
7.		
8.		

633 40
634 3
635 3
636 3
637 <1

Dominant Plant Species	Stratum	Indicator
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKW
Location ID B371 Hillside Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Seed larger area around what is going now w/ wetland mix

Other comments:

Looking good. New area this year.

Completed by: Joyce Nelson Date 8/25/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nicks	Date: 8/25/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B771 W Transect ID: — Plot ID: —

Wetland

Do Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. HOLU1	H		40	9. CIAR1	H		<1 665
2. COAR1	H		2	10. HEAN1	H		<1 666
3. KOSC1	H		<1	11. BRJA1	H		<1 667
4. AGCA1	H		2	12. TYLA1	H		<1 668
5. BRIN1	H		<1	13. AGSM1	H		<1 669
6. CEAI1	H		<1	14. PLLA1	H		<1 670
7. MEOF1	H		<1	15.			
8. GRSQ1	H		664	16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Dry

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID B771 N wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Yes - too dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - if at all.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	8	1'	1'	1.5'	2"	6"	8"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Very dry.

Completed by: Jody Knuds — JK Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Josh Nelson Date 6/11/08
Location B771 North Wetland

Noxious Weed Species Present:

CIAR1 - <1%
COAR1 - <1%
CEDI1 - <1%

Comments/Notes:

Area very dry this year. All #0_J01.

Josh K Nelson — Print Name
Signature
6/11/08 — Date

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 7/14/08
Location B771 North Wetland

Noxious Weed Species Present:

TARA1 - <1%
CEDI1 - <1%
COAR1 - <1%

Comments/Notes:

All HOJO1 this year.

Jody Nelson JKN 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location B771 North Wetland

Noxious Weed Species Present:

TARAI - <1% pulled up

CEDII - <1%

Comments/Notes:

Totally dry today.

Jody K Nicks — Print Name

J K Nicks — Signature

8/14/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/25/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B771 NW Wetland Transect ID: — Plot ID: —

% Actual Cover

671 13
672 30
673 8
674 1
675 <1
676 1

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLAI	H		9.		
2. HOLJU	H		10.		
3. KOSCI	H		11.		
4. AGSMI	H		12.		
5. BUDAI	H		13.		
6. (8/25/08) POCO1	H		14.		
7.			15.		
8.			16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Dry

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID B771 NW Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - see below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - very dry this year - hydrophytes dying off.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch For weeds - control as needed

Other comments:

Completed by: Joy K Nash JK Nash Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Jay Nels- Date 6/11/08
Location BTTI NW wetland

Noxious Weed Species Present:

CEOH - <1%
~~KOSC~~ not on nox weed list
CIAR1 - 2% - spingl

Comments/Notes:

Area very dry this year.

Jay Nelson — Jay Nelson — 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jon Nels— Date 7/14/08

Location B771 NW Wetland

Noxious Weed Species Present:

CIARI - sprayed this year - < 1%

Comments/Notes:

Area dried up this year. Mostly Hoji.

Jon K. Nels— [signature] 7/14/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location B771 NW wetland

Noxious Weed Species Present:

none.

Comments/Notes:

Area totally dry this ~~year~~ Today.
8/14/08

Jon KNL — Print Name

KNL — Signature

8/14/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B881 Wetland Transect ID: — Plot ID: —

VEGETATION

	Dominant Plant Species	Stratum	Indicator	% Actual Cover
1.	TYLAI	H		60
2.	SCVAI	H		5
3.	ELANI	T		<1
4.	HOLOI	H		20
5.	MUASI	H		<1
6.	JUTOI	H		<1
7.	ELMAI	H		1
8.	GRSQI	H		1
	HEANI	H		<1
9.	KOSCI	H		<1
10.	AGSCI	H		<1
11.	AGSMI	H		<1
12.	AMARI	H		<1
13.	XASTI	H		<1
14.	SPME	H		<1
15.	SPCRI	H		<1
16.	MEALI	H		<1
	ECCRI	H		<1

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). ~~50~~ 16 (16/108)

Remarks: CIARI-H-3 393 ASVII-H-<1 397 DACAI-H-<1 401
BRINI-H-<1 394 ASFA-H-<1 398 CANEI-H-<1 402
ASPOI-H-<1 395 AGCAI-H-<1 399
PODEI-H-<1 396 ASSPI-H-<1 400

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-1 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MSH 1/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID B881 Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - somewhat dry this year but not looking too bad

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
POSE1	2	1.5'	1.5'		1'	2'	
ELAN1	3	3'	6'	5	1'	3'	3'
SAAM1	1	3'			8"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area looks pretty good. Could use more water - dry year.

Completed by: Jody Knols - JK Knols Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location B881

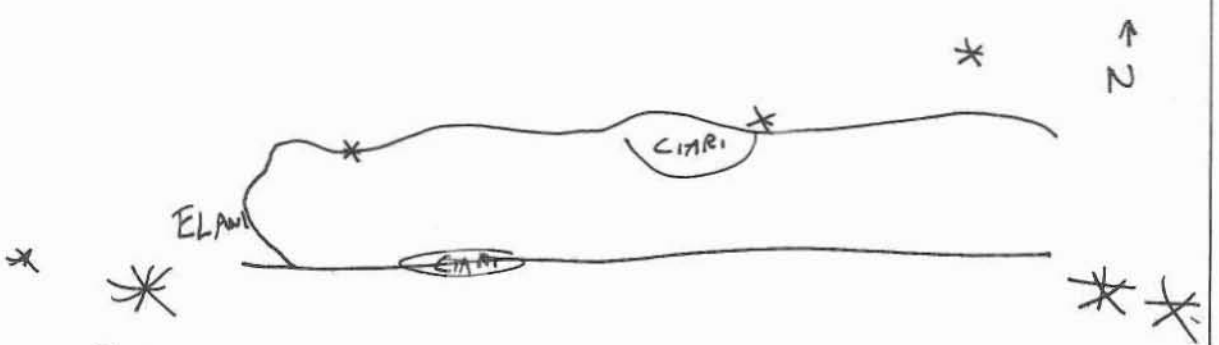
Noxious Weed Species Present:

ELAN1 - Scattered throughout & large trees nearby <1%
CIAR1 - 1% Scattered

Comments/Notes:

DACA1

Plant SAEX1 here next year.



ELAN1 = * Scattered around

Jody Nelson — 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Joey Nels— Date 7/14/08
Location B881 Wetland

Noxious Weed Species Present:

CIARI - <1%
ELANI - <1% - most cut down - have sprayed next year to kill

Comments/Notes:

DACAI coming into area.

Joey Nels— | [signature] | 7/14/08
Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location B881 Wetland

Noxious Weed Species Present:

ELAN1 - <1% scattered around

CIAR1 - <1%

Comments/Notes:

DACA1 - gaining presence

JKN 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jaynes	Date: 8/25/08 County: Jefferson State: Co
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Bowman Pond / B771 Wetland Transect ID: — Plot ID: —

90 Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator				
1. TYLA1	H		638	20		
2. ELCA1	H		639	1		
3. HOLA1	H		640	20		
4. AGCA1	H		641	1		
5. TARA1	S		642	<1		
6. MEAN1	H		643	<1		
7. LASE1	H		644	<1		
8. CIIN1	H		645	<1		
JUTO1	H		646	2		
9. ELMA1	H		647	1		
10. AGSC1	H		648	15		
11. GRSQ1	H		649	<1		
12. MEDF1	H		650	<1		
13. MEAL1	H		651	<1		
14. SAEX1	S		652	1		
15. CIAR1	H		653	<1		
16. ~~AG NOT~~ CEAR 8/25/08	H		654	<1		
PLLA1	H		655	<1		

3

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

Remarks: PODE1 - T-<1 656

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Bone dry right now.

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID Bauman's Pond / B771

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - see below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - most hydric species are dying this summer - too dry

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	1	3'			2'		
TARA1	1	3'			1'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Others coming up in general area.

Suggestions for management:

Control TARAI.

Watch for other weeds - control as needed.

Other comments:

Very dry - not doing well this year

Completed by: Joyce Nuls — [signature] Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Jody Knds Date 6/11/08
Location Bowmans Pond / 771 wetland

Noxious Weed Species Present:

CIARI -
CIINI -

Comments/Notes:

No TARAI so far this year.

Missed spray line E-W - just N of apple tree on hillside.
goto FC2 wetland on west. Can see MEOFI line.

Jody Knds — JKN — 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nolan Date 7/14/08

Location Bowman Road / 221 West

Noxious Weed Species Present:

TARAI - < 1% - Several small plants scattered about

CENII - < 1%

CIINI - < 1%

Comments/Notes:

Dried up.

Jody K Nolan — Jody K Nolan — 7/14/08

Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location Bowman Pond Wetland

Noxious Weed Species Present:

TARAI - 2% Isolated to corner of wetland area

CEDI - 1%

CIINI - <1%

Comments/Notes:

Area dry today

Jake Nash — Print Name

J K Nash — Signature

8/14/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jeff State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: BI Pond Transect ID: — Plot ID: A

% Actual Veg Cov

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
168 65	1. TYLA1	H		9.	SPPE1	H		<1 176
169 5	2. ELMA1	H		10.	PODE1	T		<1 177
170 1	3. SCVA1	H		11.	ROSC1	H		1 178
171 <1	4. LASE1	H		12.	SAIB1	H		<1 179
172 1	5. CIAR1	H		13.	BRJA1	H		<1 180
173 2	6. AGSM1	H		14.	ECCR1	H		<1 181
174 <1	7. AGCA1	H		15.	GRSQ1	H		<1 182
175 <1	8. HEAN1	H		16.	PDAR1	H		<1 183
	~~SCVA1~~ 8/27/08 H				AMAR1	H		<1 184

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

Remarks: PAVI1 - H 8/27/08 <1 185 JUTO1 - H - <1 188 AGSTI - H - <1 191
CEDI - H - <1 186 ASLA1 - H - <1 189 PRAM1 - S - <1 192
SCPA1 - H - <1 187 HOJU1 - H - <1 190

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-6 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated in plain
X Saturated in Upper 12 Inches in plain
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID B1 Pond - A

Photographs taken today? (Y) N

Are desired wetland plant species present? Y N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no - TYLA1 established across bottom.

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	Stem Count	1	2	3	1	2	3
POBE1	Too numerous	8"	6"	4"	2"	2"	2"
SAEX1	"	4'	5'	3'	2'	3'	1'
PRAM1	2	8"	10"		2'	3"	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

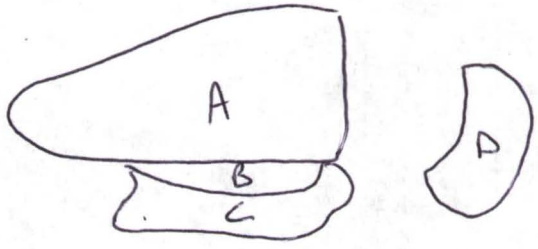
4

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

All TYLA1.



Completed by: Joy K Nash Joy K Nash Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE 2m Investigator: Jody Nelson	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: BI Pond Transect ID: — Plot ID: B

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. 85 SAEXI	S	
2. 5 CIARI	H	
3. <1 POGRI	H	
4. 10 BRINI	H	
5. <1 HYPEI	H	
6. 4 JUBAI	H	
7. 1 AMPSI	H	
8. 1 VETHI	H	
8 ASFAI	H	
9. CYOFI	H	
10. VEBRI	H	
11. NECAI	H	
12. ASSPI	H	
13. SYOCI	S	
14. GAPAI	H	
15. OEVII	H	
16. AGSTI	H	
TRAI	H	

193 194 195 196 197 198 199 200 201

<1 <1 <1 <1 5 <1 <1 <1 5

202 203 204 205 206 207 208 209 1292

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches — lower edge
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)		(Circle)
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No		Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID B1 Pond - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

ye

Woody Plant Counts

Species	Stem Count	Height			Width		
		1	2	3	1	2	3
SAEXI	Too numerous To count	7'	8'	5'	5'	6'	4'
SYOCI		2'	2'	2'	1'	1'	1'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch For weeds - control as needed

Other comments:

SAEXI doing well.

Completed by: [signature] Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nets	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? (No) Is the site significantly disturbed (Atypical Situation)? (Yes) Is the area a potential Problem Area? (No) (If needed, explain on reverse.)	Community ID: B1 Pond Transect ID: — Plot ID: C

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
210 80	1. JUBAI	H		9.	NECAI	H		<1 219
211 10	2. BRINI	H		10.	SYOCI	H		1 220
212 <1	3. VEBLI	H		11.	SAEXI	H		<1 221
213 1	4. VETHI	H		12.	SIALI	H		<1 222
214 <1	5. ASFAI	H		13.	CYOFI	H		<1 223
215 <1	6. BAVUI	H		14.	LASEI	H		<1 224
216 <1	7. OEVII	H		15.	DEPII	H		<1 225
217 <1	8. CANUI	H		16.	ROSCI	H		1 226
218 <1	RUMEI	H			ALMII	H		<1 227

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

Remarks: CALAI - H - 1 228

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: dry now

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) KN
Location ID B1 Pond C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SYOC1	Too numerous	2'	2'	2'	1'	1'	1'
SAEX1	1	2.5'			10"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Mow old SAEXI stem at edges.

Other comments:

Completed by: Joyce Nash Joyce Nash Date 8/27/08

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 6/18/08
Location B-1 Pond

Noxious Weed Species Present:

CIARI - 1%
SOARI - <1%
CEDII - <1%

Comments/Notes:

Jody Nels 6/18/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Judy Nals Date 7/17/08
Location B-1 Pond

Noxious Weed Species Present:

CIAR1 - 1%
CEDI1 - <1%

Comments/Notes:

All TYLA1.

Judy Nals — Judy Nals — 7/17/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKW Date 8/14/08

Location B-1 Pond

Noxious Weed Species Present:

CIARI - <1%

CEDII - <1%

Comments/Notes:

All TYLAI across pond bottom - dry right now.

JKW JKW 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Metz	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B2 Pond Transect ID: — Plot ID: A

VEGETATION

	% Actual Cover	Dominant Plant Species	Stratum	Indicator
1.	45	TYLA1	H	
2.	2	SCVA1	H	
3.	20	CHE (chenopod sp.)	H	
4.	<1	POAR1	H	
5.	1	SAEX1	S	
6.	<1	HOJU1	H	
7.	<1	JUTO1	H	
8.	<1	POMO1	H	
9.	<1	POPE1	T	
10.	<1	SAAM1	T	
11.	2	ELCA1	H	
12.	15	AGSM1	H	
13.	1	SPPE1	H	
14.	2	KOSC1	H	
15.	<1	TARA1	S	
16.	<1	DISP1	H	
1	3	CLAR1	H	
		ELMA1	H	

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

Remarks: ECCR1-H-<1 POPE2-H <1
PLLA1-H-<1 EUMA1-H-<1
SOAR1-H-<1 AGST1-H-<1

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-10 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID B2 Pond - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	Too numerous	5'	4	3'	3'	2'	3'
TARAI	10 ~~6~~ 8/27/08	8"	5"	6"	2"	3"	10"
PODEI	3	1'	1'	8"	3"	1'	2"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

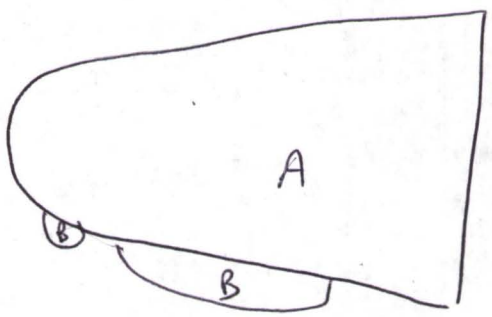
Control TARAI (all cut off today)

Watch for weeds - control as needed.

Other comments:

Slowly filling in - either no water or lots.

N



Completed by: Joy K Nelson Joy K Nelson Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nets	Date: 8/27/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B2 Pond Transect ID: — Plot ID: B

90 Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator
261 90	1. SAEXI	S	
262 40	2. ELCAI	H	
263 1	3. TYLAI	H	
264 4	4. ELMAI	H	
265 2	5. CIARI	H	
266 <1	6. AGCAI	H	
267 2	7. SYOCI	H	
268 <1	8. JUTOI	H	
269 <1	SCPAI	H	

	Dominant Plant Species	Stratum	Indicator	
270	9. VETHI	H		<1
271	10. OEVII	H		<1
272	11. SPPEI	H		<1
273	12. BRINI	H		<1
274	13. PAVII	H		<1
275	14. LIDAI	H		<1
276	15. GLLEI	H		<1
	16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches — in places
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/06
Observer(s) JKW
Location ID B2 Pond - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	> ~~to numerous to count~~	8'	6'	5'	5'	4'	3'
SYOC1		2'	2.5'	2'	1'	1.5'	1'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Put additional seed above SAEX1 along S. side of pond.

Other comments:

Filling in w/ SAEX1 very well.

Completed by: Jody KMK Jy KMK Date 8/27/08

303-291-7135

Wetland Noxious Weed Survey Form

Observer Jody Nels — Date 6/18/08
Location B-2 Pond

Noxious Weed Species Present:

SOARI - <1%
CIARI - <1%
TARAI - pulled (7 plants)

Comments/Notes:

Jody K Nels — Print Name
Signature
6/18/08 Date

Wetland Noxious Weed Survey Form

Observer Bob Nals Date 7/14/08
Location B-2 Pond Wetland

Noxious Weed Species Present:

SOARI - <1%
CIARI - <1%
TARA1 - <1%

Comments/Notes:

Mostly all TYLA1 - bottom of wetland.

Print Name | Signature | Date

7/14/08

Wetland Noxious Weed Survey Form

Observer JKW Date 8/14/08

Location B-2 Pond

Noxious Weed Species Present:

CIAR1 - <1%

TARA1 - <1% - pulled all of it I found

Comments/Notes:

All TYLA1 across pond bottom for most part.

JKW JKW 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Judy Nolan	Date: 8/27/08 County: Jeffers- State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B3 Pond Transect ID: – Plot ID: A

% Actual cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator					
277	1. SAEXI	S		286	9. ECCRI	H		<1
278	2. TYLAI	H		287	10. CHE (unknown sp)	H		<1
279	3. SCVAI	H		288	11. KOSCI	H		<1
280	4. SCPUI	H		289	12. LASEI	H		<1
281	5. SPPEI	H		290	13. HEANI	H		<1
282	6. ELMAI	H		291	14. AGSMI	H		<1
283	7. POMOI	H		292	15. TARAI	S		<1
284	8. CIARI	H		293	16. XASTI	H		<1
285	AMARI	H		294	HOJUI	H		<1

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

Remarks: PAUII - H <1 (295) TYANI - H - 2 (298)
CANUI - H <1 (296)
JUTOI - H - <1 (297)

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)		(Circle)
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No		Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID B3 Pond - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	too numerous	1.5'	2'	2.5	8"	1'	2'
TARA	4	6'	1.5'	2.5	3'	10"	2'

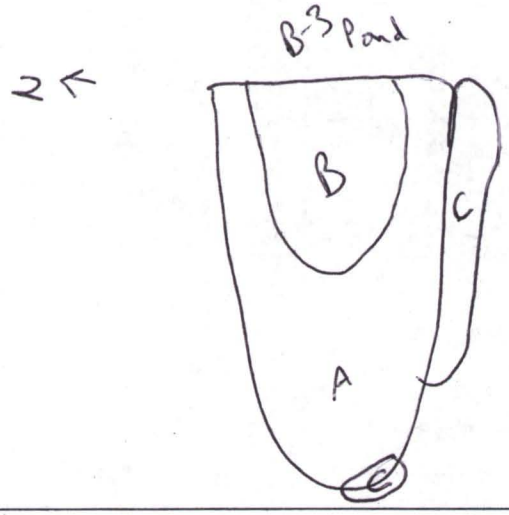
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control TARA1 + other weeds as needed.

Other comments:

Slowly Filling in across both. Are saturated today



Completed by: _____ Date 8/27/10

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: B3 Pond Transect ID: — Plot ID: B

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA1	H		9.		
2. SCVA1	H		10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

299 <1
300 <1

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

Remarks:
mostly mud flat & saturated soil w/ small pool right now.

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-2' (in.) 8/27/08
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 9/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID B3 Pond – B

Photographs taken today? (Y) N

Are desired wetland plant species present? Y (N)

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes – See below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes – but has either been no water – pond of lots so hard for veg to establish

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Either too wet or too dry for veg to establish. Perhaps after dam is breached this fall will work better.

Completed by: Jody K Nelson JKN Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: 63 Pond Transect ID: — Plot ID: C

VEGETATION

	% Actual Cover	Dominant Plant Species	Stratum	Indicator
301	75	1. SAEXI	S	
302	<1	2. PODEI	T	
303	<1	3. ECCRI	H	
304	1	4. AGCAI	H	
305	2	5. SAAMI	~~8/27/08~~ ST	
306	<1	6. JUTOI	H	
307	15	7. ELCAI		
308	1	8. PRVII		
309	2	CYOCI		

	% Actual Cover	Dominant Plant Species	Stratum	Indicator
	<1 310	9. SCPUI	H	
	3 311	10. ELMAI	H	
	25 312	11. CIARI	H	
	<1 313	12. GEMAI	H	
	<1 314	13. LYAMI	H	
	20 315	14. PAVII	H	
	<1 316	15. SCVAI	H	
	4 317	16. MEOFI	H	
	<1 318	XASTI	H	

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

Remarks: AMPSI-H-<1 319; SOCAI-H-<1 320; TYLAI-H-<1 321; VETHI-H-<1 322; ASFAI-H-<1 323; ANGEI-H-<1 324; GLLEI-H-<1 325; CIVUI-H-<1 326; BOGRI-H-<1 327; OEVII-H-<1 328; MECAI-H-<1 329; HYPEI-H-<1 330

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- X Saturated in Upper 12 Inches - in places
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID B3 Pond - C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing well

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAM1	9	2'	15'	9'	1'	12'	5'
PODE1	1	10"			3"		
PRVI1	Too numerous to count	7'	5'	2'	4'	3'	1'
STOC1		2'	2'	1'	1'	1'	8"
SAEX1		10'	8'	7'	12'	6'	5'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.
Cannot really control CIAR1 w/ out killing lot of SAEX1.

Other comments:

SAEX1 filling in along S slope to pond very well
SAEX1 planted on N pond edge doing well + spreading - not very tall yet.

Completed by: [signature] [signature] Date 8/27/08

Wetland Noxious Weed Survey Form

Observer Jody Nolan Date 6/18/08
Location B-3 Pond

Noxious Weed Species Present:

CIARI - <10%

SOARI - <10%

Comments/Notes:

Found green racer (snake) on top of B-2 dam today.

Jody Nolan — Jody Nolan — 6/18/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 7/14/08
Location B-3 Pond wetland

Noxious Weed Species Present:

CIARI - <1%
CANUI - <1%
XASTI - <1%

Comments/Notes:

Open water area drying up.

SAEXI on N side wetland coming in very well.

Jody Nelson — 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08
Location B3 Pond

Noxious Weed Species Present:

CEDII - <1
VETHI - <1
XASTI - <1
TARAI - <1 - pulled all Found.

Comments/Notes:

Central bottom of B-3 Dry.

N edge veg = SCVAI

S edge veg = TYLAI

SAEXI Filling in around N edge.

Jon KN — Print Name
JKN — Signature
8/14/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels-	Date: 8/26/08 County: Jeffrey State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: C1-Pond - Lines Transect ID: — Plot ID: A

Do Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Actual Cover
1. SAEX	S		60
2. ECCR	H		20
3. TYLA	H		60
4. AMPS	H		1
5. XAST	H		3
6. BRJA	H		<1
7. ELMA	H		15
8. GRSQ	H		<1
JULO	H		<1

Dominant Plant Species	Stratum	Indicator	Actual Cover
9. CIAR	H		5
10. AGSM	H		1
11. CEDI	H		<1
12. PODE	H		2
13.	J 8/26/08		
14.			
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/20/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID C1 Pond - West - A

Photographs taken today? Y (N) Earlier

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - along pond edge

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	Too numerous	5'	5'	6'	6'	5'	5'
PODE1	1	8'			4'		

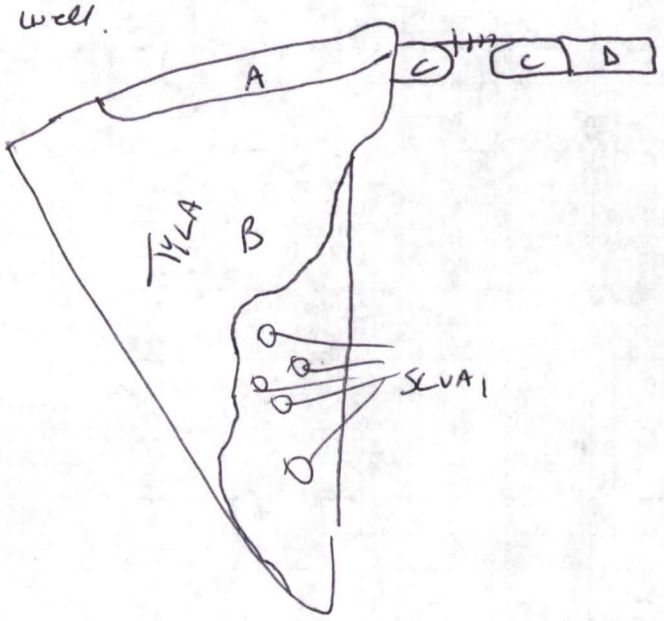
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weed control as needed.

Other comments:

SAEXI doing very well.



Completed by: Jody K Nelson Jody K Nelson Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: C1 Pond - pond ar Transect ID: — Plot ID: B

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA 1	H		9.		
2. SCVA1	H		10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

546 45
547 3

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

Remarks:
rest of area is open water - 0-3' deep.

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 0-3' (in.) 8/24/08
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID C1 Pond - pond area - B

Photographs taken today? Y (N) Earlier

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Seed wetland mix across pond bottom.

Other comments:

TYLA1 Filling in across pond bottom.

Completed by: Jody Knels Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE 2M Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: C1 Pond - spillway Transect ID: — Plot ID: C

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. TYLA1	H	
2. ELCR1	H	
3. VETH1	H	
4. XAST1	H	
5. PODE1	H T	
6. RUCR1	H	
7. SCVA1	H	
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

548 10
549 8
550 <1
551 <1
552 <1
553 <1
554 2

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-7 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Water Flowing Through spillway today

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID C-1 Pond - spillway - C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	1	4"			2"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch For weed - control as needed.

Seed w/ wetland mix.

Other comments:

Completed by: Jody Knols - JK Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nolan	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: C1 Pond - East Transect ID: — Plot ID: D

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
555	1. TYLAI	H		9. HAPPEI	H		21	564
556 20	2. CIARI	H		10.				
557 21	3. JUDUI	H		11.				
558 60	4. SAEXI	S		12.				
559 <1	5. SAAMI	T		13.				
560 <1	6. ~~SPCH~~ VEANI	H		14.				
561 21	7. POCOI	H		15.				
562 25	8. POAC1	T		16.				
563 <1	CIVUI	H						

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-2 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated - in places
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID C1-Pond-East - D

Photographs taken today? Y (N) Earlier

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Yes/no - area is somewhat dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - water flow - creek - upper area around creek known Support SAEX1, POAE1, POAC1

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX	too numerous	8'	7'	7'	5'	5'	4'
SAAM1	1	2'			10"		
POAC1	too numerous	5'	6'	6.5'	2'	3'	2.5'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Water for weeds - control as needed.

Other comments:

SAEXI + POACI starting to fill in open areas where it occurred before project happened.

Completed by: Joy K Nelson Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/18/08
Location GI Pond

Noxious Weed Species Present:

CEDI1 - 1%
CIAR1 - 1%
SOAR1 - <1%

Comments/Notes:

CEDI1 + CIAR1 along upper edge of riprap - both sides
Also N of SAEX1 along N pond edge - hillslope.

Jody K Nds — Print Name
Signature
6/18/08 Date

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 7/14/08
Location C-1 Pond Wetland

Noxious Weed Species Present:

CEDI - 1%
CIARI - 1%

Comments/Notes:

N edge of C-1 coming in nice w/ SAEXI + ELMAI (compacting SAEXI)

Jody K Nelson JKN 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location C1 Pond

Noxious Weed Species Present:

CIARI – 1%

XASTI – 1%

Comments/Notes:

CIARI mostly on upland side of SAEXI – backyard spring.

Need to seed pond area – grout rip rap w/ wetland species.

Jay K Nash — JKN — 8/14/08

Print Name — Signature — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: East Shooting Range Transect ID: — Plot ID: —

Do Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Actual cover
1. PODE1	T		1
2. SAAM	T		25
3. SAEX1	S		20
4. CANE1	H		5
5. CIAR1	H		5
6. AMFR1	S		25
7. SCAS1	H		<1
8. ELCA1	H		4
9. JUTO1	H		1
10. CAPR1	H		2
11. SCPA1	H		5
12. AGST1	H		<1
13. VEAN1	H		1
14. GEMA1	H		<1
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Stream Flowing

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID East Shooting Range

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODE1	1	4'			2'		
SAAM1	too numerous to count	5'	4'	4'	3'	3'	3'
AMFR1		4'	3'	5'	6'	3'	4'
SAEX1		4'	4'	5'	3'	3'	4'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking good.

Completed by: Jody K Nelson Jody K Nelson Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/18/08

Location East Shooting Range Wetland

Noxious Weed Species Present:

CIAR1 - <1%

Comments/Notes:

Area looks good.

Jody K Nels- | | 6/18/08

Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer Jay Nels Date 7/17/08
Location East Shooting Range

Noxious Weed Species Present:

CIARI - 2%

Comments/Notes:

SAEXI, SAAMI, & AmFRI are filling in nicely along stem.

Jay K Nels — Jay K Nels — 7/17/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer Jody Knols — Date 8/13/08

Location East Shooting Range

Noxious Weed Species Present:

CIAR1 - 5%.

Comments/Notes:

Area looking good - SAEX1 + AMFR1 filling in.
+ SAAM1

Jody Knols — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: East Trenches Wetland Transect ID: — Plot ID: —

VEGETATION

% Actual Cover

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1244 25	1. TYLAI	H		9.	GLLEI	H		<1 1252
1245 1	2. CIARI	H		10.	OEVII	H		<1 1253
1246 25	3. JUBAI	H		11.	ASFAI	H		<1 1254
1247 7	4. SCPAI	H		12.				
1248 <1	5. SYOCI	S		13.				
1249 <1	6. CYOFI	H		14.				
1250 7	7. RUCRI	H		15.				
1251 <1	8. EPCII	H		16.				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 1 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
X Sediment Deposits
X Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 6/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

Is this Sampling Point Within a Wetland? (Circle) Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKW
Location ID East Trenches Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - good source of abundant water for ETGTP

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SYOCI	3	8"	8"	8"	6"	2"	3"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed,

Plant shrubs along edge of wetland.

Other comments:

Look good - has filled in nicely since new discharge pipe was installed.

Completed by: Jody K Nelson Jeff K Nelson Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/18/08

Location East Trenches Wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

Jody K Nelson — 6/18/08

Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer Jody K Nolz Date 7/14/08

Location East Trench Wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

Jody K Nolz JKN 7/14/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location East Trenches Wetland

Noxious Weed Species Present:

CIARI - <1%

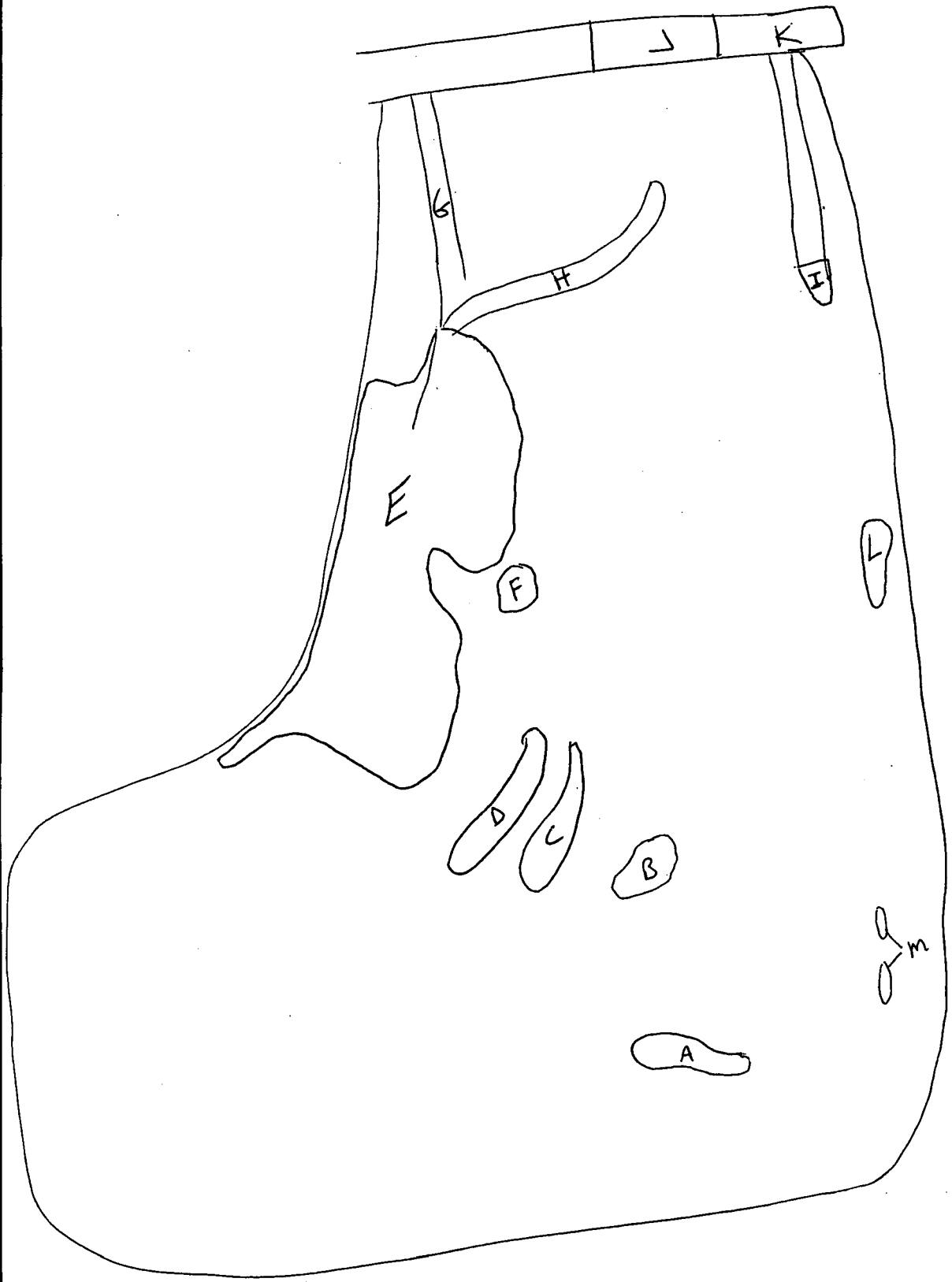
Comments/Notes:

Plant SAEXI along east edge next year.

Jody Knell JKN 8/13/08

Print Name Signature Date

FC1 Wetland 2008 Monitoring Map



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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Bay Nels-	Date: 8/22/08 County: Jeffers- State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: - Plot ID: A

Do Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator		
1. PAVI1	H		755 15	9. CIARI	H		<1	764
2. AGSCI	H		756 2	10. AGSTI	H		<1	765
3. AGSMI	H		757 1	11. CANEI	H		<1	766
4. AGCAI	H		758 15	12.				
5. MEOFI	H		759 2	13.				
6. ELCAI	H		760 1	14.				
7. AMERI	S		761 1	15.				
8. HOLI	H		762 <1	16.				
MELUI	H		8/22/08 763 1					

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	0	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)		(Circle)
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKN
Location ID FCI Wetland - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

See below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - could use more water - Comes out of seep/wet area on hillside - wet today after last weeks rain - typically dryer but wetland species are present & establishing

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
AmFRI	~~2~~ 3	1'	3'	1'	1'	2'	1'
	JE 8/22/08						

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Starting to establish. Pretty good considering the dry year we have had. AMFRI starting to come up + around area. May fill in eventually.

Completed by: Jay K Mick Jay K Mick Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nels—	Date: 8/22/08 County: Jeffers— State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: — Plot ID: B

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Cover
1. PAVI	H		10
2. ELCA1	H		8
3. SPPE1	H		1
4. MEOF1	H		1
5. AGCA1	H		10
6. AGSC1	H		2
7. CIAR1	H		1
8. AGST1	H		<1
SAEX1	S		<1
9. JUTO1	H		25
10. CANE1	H		<1
11. SCVA1	H		1
12. AMAR1	H		<1
13. PODE1	T		1
14. POCO1	H		1
15. TYLA1	H		<1
16. POMO1	H		<1
LASE1	H		<1

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

Remarks: ELAN1 -T-<1

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) KN
Location ID FCI Wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - establishing fine

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	1	1'			4"		
PODEI	numerous	1'	1'	1.5'	3"	3"	5"
ELANI	1	3"			1"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Filling in well w/ hydric species.

Completed by: [signature] [signature] Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/22/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 wetland Transect ID: — Plot ID: C

% Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. JUBAI	H		9. PODEI	T	
2. SCVAI	H		10. TYLAI	H	
3. SPPEI	H		11. AGSCI	H	
4. ELCAI	H		12. CIARI	H	
5. PAVII	H		13.		
6. CANEI	H		14.		
7. JUTOI	H		15.		
8. SCPUI	H		16.		
AGCAI	H				

786 15 · 787 15 · 788 1 · 789 4 · 790 4 · 791 1 · 792 2 · 793 21 · 794 2

1 795 · 4 796 · 4 797 · 21 798

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/20/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - coming in nicely

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODE1	20	8"	3"	3"	2"	1"	1"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking good - lots of diversity here.

Completed by: Jody K Nelson Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/22/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: — Plot ID: A

Do Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator				
799	1. JUBAI	H		12	808	9. SCVAI	H		8
800	2. POAEI	T		<1	809	10. AGSTI	H		<1
801	3. ELCAI	H		8	810	11. TYLAI	H		15
802	4. AGCAI	H		7	811	12. ELMAI	H		1
803	5. MEOFI	H		<1	812	13. PRVU	H		1
804	6. AGSCI	H		10	813	14. AGSMI	H		<1
805	7. SPPEI	H		1	814	15. SAIBI	H		<1
806	8. JUTOI	H		5	815	16. POMOI	H		<1
807	CANEI	H		1					

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/6/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	
Wetland Hydrology Present?	Yes	No		(Circle)
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKN
Location ID FCI Wetland D

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing well

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PRVI1 (planted)	7 (surviving)	2.5	1'	1'	8"	6"	6"
PODE1	Too numerous to count	8"	6"	3"	3"	1"	1"
PRAM1 (west side planted) outside wetland	7 (surviving)	2'	2'	1'	3"	3"	10"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area looking good. Most of PRV11 & PRAM1 planted last Spring around perimeter of wetland doing well.

Completed by: Jody K Nds — JK Nds Date 8/22/08

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

Project/Site: Rocky Flats	Date: 8/22/08
Applicant/Owner: DOE LM	County: Jefferson
Investigator: Katy Nelson	State: CO
Do Normal Circumstances exist on the site? Yes (No)	Community ID: FCL wetland
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: —
Is the area a potential Problem Area? Yes (No)	Plot ID: E
(If needed, explain on reverse.)	

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Cover
1. PODE1	T		816 1
2. SAEX1	S		817 1
3. AMFR1	S		818 <1
4. PRVI1	S		819 <1
5. PAVI1	H		820 20
6. CANE1	H		821 2
7. JUBA1	H		822 20 ~~15~~ (8/21/08)
8. SCVA1	H		823 5
SPPE1	H		824 <1
9. AGSC1	H		15 825
10. AGCA1	H		4 826
11. MEOF1	H		1 827
12. CIAR1	H		<1 828
13. TARA1	S		<1 829
14. CANU1	H		<1 830
15. TYLA1	H		5 831
16. ELCA1	H		10 832
JUTO1	H		8 833

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

Remarks: HOJU1 - H - <1 834; EPCI - H - <1 837; MEAL1 - H - <1 841; AGST1 - H - <1 845; POPE2 - H - <1 835; TRPR1 - H - <1 838; HEAN1 - H - <1 842; ~~CIAR1 - H - <1~~ (8/21/08); LASE1 - H - <1 839; SCPA1 - H - <1 843; MURA1 - H - <1 836; AMAR1 - H - <1 840; PRAM1 - S - <1 844

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-2 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

PRVI1 - 12 > S end
B2 PRAM1 - 11
SAAM1 - 11 - E side
PRAM - 16 - N end

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - E

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looks great

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	Too numerous	2'	3'	6"	8"	10"	2"
SAAMI	4 (in wetland)	2'	2.5	2'	6"	6"	6"
PRAMI	11	1'	2'	2'	6"	6"	6"
SAEXI	Too numerous	4'	3'	2'	3'	2'	1'
TARAI	1	2'			6"		
PRVII	12	1'	1.5'	1'	6"	8"	6"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looks great. Spreading + increasing in size. Lots of diversity.

Completed by: Jody Kruse Jody Kruse Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nels	Date: 8/22/08 County: Jefferson State: Co
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wet land Transect ID: Plot ID: F

VEGETATION

Dominant Plant Species	Stratum	Indicator	No. Actual Cover	
1. PAVI1	H		25	846
2. SCVA1	H		3	847
3. CANE1	H		7	848
4. ELCA1	H		15	849
5. MEOF1	H		1	850
6. AGCA1	H		5	851
7. AMAR1	H		<1	852
8. AGST1	H		<1	853
PODE1	T		<1	854
9. JUTO1	H		<1	855
10. BRJA1	H		<1	856
11. SAAM1	~~S~~ T		<1	857
12. AGSC1	H		<1	858
13.				
14.				
15.				
16.				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - F

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looking good

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	6	10"	6"	5"	2"	2"	2"
~~SAAM~~I	1	1'			2"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Area looks great. Filling in nicely.

Will probably connect to larger area (E) in time.

Completed by: Joy K Nolan Date 8/22/08

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

Project/Site: Rocky Flts Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/22/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: — Plot ID: G

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator	% Actual Cover	
1.	JUTO1	H		3	859
2.	SCVA1	H		20	860
3.	SAEX1	S		5	861
4.	PODE1	T		<1	862
5.	POPR1	H		<1	863
6.	AGSC1	H		<1	864
7.	EPCI1	H		<1	865
8.	ELCA1	H		1	866
	CIAR1	H		1	867
9.	PRVI1	S		<1	868
10.	AMFR1	S		<1	869
11.	TYLA1	H		8	870
12.	SPPE1	H		<1	871
13.	PAVI1	H		1	872
14.	LEFA1	H		<1	873
15.	AMAR1	H		<1	874
16.	JUBA1	H		15	875
	ELMA1	H		3	876

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

Remarks: JUNU1 - H - <1 877

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-12 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - G

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looking good

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PRVI	17	2'	2'	2'	6"	6"	6"
SAEXI	too numerous	2'	2.5'	4'	2'	2.5	3'
AMFRI	5	10"	8"	1'	10"	6"	8"
PODEI	too numerous	1'	2'	1'	3"	1'	6"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds control as needed.

Other comments:

Looking good - planted shrubs are establishing - SAEXJ + PRVII.

Completed by: Jody K Nds — Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels-	Date: 8/22/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: — Plot ID: H

Do Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
878 1	1. PODEI	T		9. AGSCI	H		1	887
879 2	2. SAEXI	S		10. AmARI	H		<1	888
880 2	3. AmFRI	S		11. JUTOI	H		1	889
881 12	4. AGCAI	H		12. HEANI	H		<1	890
882 1	5. SCVAI	H		13.				
883 <1	6. JYLAI	H		14.				
884 15	7. ELCAI	H		15.				
885 <1	8. CIARI	H		16.				
886 1	JUBAI	H						

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated (upper end only)
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Much of length in area is dry

AGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKN
Location ID FCI Wetland - H

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - see below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Maybe - mostly dry branch except after precip events

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	too numerous to count	6"	8"	7"	2'	2'	2'
SAEXI		1'	1.5'	3'	10"	6"	1'
AMFRI		1'	1'	10"	1.5'	1.5'	10"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Possibly free water eastward w/ additional board.

Other comments:

Quite dry - although AMFRI may eventually fill - small ditch area.

Completed by: Jody K Nel JK Nel Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels-	Date: 8/22/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 wet land Transect ID: Plot ID: 1

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual Cover
1. SAEX	S		5
2. AGCA	H		2
3. AMAR	H		<1
4. LASE	H		<1
5. PODE	T		2
6. BRIA	H		<1
7. COAR	H		<1
8. ELCA	H		<1
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - I

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - lack of water

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - very dry this year - but SAEXI is expanding

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	33	2'	1.5'	2.5'	1'	2'	2'
PODEI	14	1.5'	1'	1.5'	1'	8"	1'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Very dry - SAEXI slowly spreading - needs more water.

Completed by: Joy Knox Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Judy Nels-	Date: 8/22/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCI wetland Transect ID: — Plot ID: 1

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual Cover
1. SCVA1	H		899 1
2. TYLA1	H		900 10
3. ECCR1	H		901 <1
4. AGSC1	H		902 <1
5. JUBA1	H		903 1
6. AMFR1	S		904 1
7. LEFA1	H		905 1
8. RUCR1	H		906 <1
SAEX1	S		907 15
9. PODE1	T		1 908
10. CIAR1	H		<1 909
11. HYPE1	H		<1 910
12. CEDI1			<1 911
13.			
14.			
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 12/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKN
Location ID FCI Wetland -1

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

NO

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looks good

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	too numerous to count	4'	6"	4"	3'	2"	2"
SAEXI		7'	6'	3'	10'	6'	3'
AMFRI		1'	10"	8"	6"	8"	6"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Filling in well on bottom of channel

Completed by: Joy K Nel JK Nel Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Lady Nicks	Date: 8/22/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 Wetland Transect ID: — Plot ID: K

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator				
912	30	1. CENE1	Aguter - H		9. HOJU1	H		<1	920
913	3	2. TYLA1	H		10. EPC11	H		<1	921
914	1	3. SCVA1	H		11.				
915	<1	4. ALTR1	H		12.				
916	<1	5. ELMA1	H		13.				
917	<1	6. AGST1	H		14.				
918	<1	7. BRIN1	H		15.				
919	<1	8. SAEX1	S		16.				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-24 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH
12/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - K

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - lots of water here

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX	3	4'	2'	1'	6'	2'	10"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Completed by: Jody K Nelson Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Aels	Date: 8/22/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC1 - Wetland Transect ID: - Plot ID: 1

VEGETATION

	% Actual Cover	Dominant Plant Species	Stratum	Indicator
922	5	1. SCVA1		
923	4	2. AGSM1		
924	3	3. ELCA1		
925	5	4. AGCA1		
926	<1	5. CALE2		
927	<1	6. POPE2		
928	<1	7. ECCR1		
929	<1	8. PAVI1		
930	<1	SCPU1		
931	<1	9. POAR1		
932	<1	10. MEOF1		
933	2	11. JUBA1		
934	2	12. JUTO1		
935	<1	13. PODE1		
936	<1	14. KOSC1		
937	2	15. MURA1		
938	<1	16. LASE1		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) JKW
Location ID FCI Wetland - L

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Probably - even in dry year the area has begun to establish hydric species

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODE1	1	8"			2"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch For weeds - control as needed

Other comments:

Area starting off good. See what happens over next few years.

Completed by: J. J K Nels— J K Nels Date 8/22/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nolds	Date: 8/22/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCI wetland Transect ID: — Plot ID: M

90 Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. SCVAI			939 5	9. ELCAI			<1 947
2. SAIBI			940 21	10. KOSCI			<1 948
3. AGCAI			941 2	11. JUBAI			2 949
4. POARI			942 <1	12.			
5. TYLAI			943 1	13.			
6. JUTOI			944 2	14.			
7. POCOI			945 <1	15.			
8. AGSMI			946 <1	16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	0	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

Is this Sampling Point Within a Wetland? (Circle) Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/22/08
Observer(s) KW
Location ID FC1 Wetland - M

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

on often dry hillside

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - hydric species have established however

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch For weeds - control as needed

Reseed w/ wetland - use harrow.

Other comments:

New area not seen before

Completed by: Jody Knods - [signature] Date 8/22/08

Wetland Noxious Weed Survey Form

Observer Josh Nelson Date 6/18/08
Location FCI wetland

Noxious Weed Species Present:

CIAR1 - <1%
HYPE1 - <1%
CED11 - <1%
VETH1 - <1%
SOAR1 - <1%

Comments/Notes:

West site looks very good.

East side has lots of grass seedlings now.
Also some KOSC1 + SAIB1.

Josh Nelson — Print Name
[signature] — Signature
6/18/08 — Date

Wetland Noxious Weed Survey Form

Observer Jody Nolan Date 7/14/08
Location FCI wetland area

Noxious Weed Species Present:

CIAR1 - few galls on stem of plant - <1%

Comments/Notes:

LOCO1 - in middle of wetland area - flower

Jody K Nolan — K K N — 7/14/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location FCL wetlands

Noxious Weed Species Present:

CIARI - <1%

ELANI - <1%

Comments/Notes:

Wetlands looking very nice this year.

JKN 8/17/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCL Road Crossing Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator	% Actual Cover
1	SAEXI	S		1234 40
2	AMFRI	S		1235 30
3	ELCAI	H		1236 25
4	VEBLI	H		1237 1
5	AGCAI	H		1238 5
6	SOARI	H		1239 <1
7	RUCRI	H		1240 <1
8	CIARI	H		1241 8
9	AGSTI	H		<1 1242
10	GRSQI	H		<1 1243
11				
12				
13				
14				
15				
16				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Area Fairly dry now - although soil is saturated.

MGH 9/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID FCI Road Crossing

Photographs taken today? Y (N) Taken earlier

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

No

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - SAEXI & AMFRI are filling in drainage bottom very nicely.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	> too many to count	3'	5'	5'	3'	7'	6'
AMFRI		1'	1.5'	1.5'	6"	1.5'	1'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Two thirds of area was turned back into a road crossing in 2008. A culvert was placed back in the channel & the road was re-established on top of it.

Portion left undisturbed is doing very well however.

Completed by: Jody K Rue Jody K Rue Date 8/19/08

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location FC1 Road Crossing

Noxious Weed Species Present:

CIARI - 2%

Comments/Notes:

Road was reinstalled across creek - so wetland area is smaller now.

Jody K Nelson — JK Nelson — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats	Date: 8/25/08
Applicant/Owner: DOE LM	County: Jeffco
Investigator: Jay Nels	State: CO
Do Normal Circumstances exist on the site? Yes (No)	Community ID: FC2 Wetland
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: —
Is the area a potential Problem Area? Yes (No)	Plot ID: A
(If needed, explain on reverse.)	

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1.	JUBAI	H	
2.	SPPEI	H	
3.	TYLAI	H	
4.	SCVAI	H	
5.	ELCAI	H	
6.	AGSMI	H	
7.	HOJUI	H	
8.	SAEXI	S	
	ANGEI	H	
9.	HEANI	H	
10.	PAVII	H	
11.	SCPUI	H	
12.	SPMEI	H	
13.	KOSCI	H	
14.	CIARI	H	
15.	SOARI	H	
16.	ELMAI	H	
	SAAMI	T	

708 40 709 3 710 30 711 1 712 1 713 2 714 <1 715 1 716 <1

<1 717 <1 718 <1 719 <1 720 <1 721 1 722 <1 723 <1 724 <1 725

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

Remarks: CEDI1 - H - <1 726
AGCAI - H - <1 727
AGST1 - H - <1 728

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-6 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Water in much of wetland now.

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FL2 Wetland - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looks great

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	Too numerous	4'	4'	4'	1'	2'	3'
SAAMI	2	2'	3'		10"	1'	
PRAMI	2	1.5	1.5		6"	6"	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

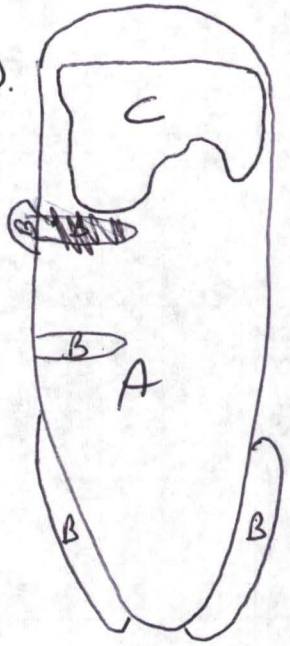
Suggestions for management:

Watch for weeds - control as needed

Other comments:

No Form completed for area "C".

Just open water 0-6" deep.



Completed by: Jody Knols — JKNols Date 8/25/10

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Judy Nolte	Date: 8/25/08 County: Jeffer State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2 Wetland Transect ID: — Plot ID: B

90 Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator		
1. SAEX1	S		729 55	9. ~~RUMA1~~ 8/25/08 CIAR	H		5	738
2. CEDI1	H		730 3	10. VETH1	H		<1	739
3. ELCA1	H		731 5	11. OEVI1	H		<1	740
4. MEOF1	H		732 1	12. BRIN1	H		<1	741
5. MEAL1	H		733 1	13. PHAR1	H		<1	742
6. JUBA1	H		734 2	14. BRJA1	H		<1	743
7. AGCA1	H		735 3	15. SPCR1	H		<1	744
8. AGSM1	H		736 3	16. SAAM1	T		20	745
TYLA1	H		737 1	CANE1	H		<1	746

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

Remarks: AGST1 - H - <1 747 HOLA1 - H - <1 750 SCVA1 - H - <1 754
LASE1 - H - <1 748 CANU1 - H - <1 751
SOAR1 - H - <1 749 SPPE1 - H - <1 752
SPME1 - H - <1 753

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	0	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)		(Circle)
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No		Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC2 Wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	too numerous to count	7'	8'	5'	5'	10'	4'
SAAM1		7'	6'	7'	10'	4'	6'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control PHARI.

Watch for weeds - control as needed.

Other comments:

SAEXI + SAAMI expanding nicely.

Completed by: [signature] [signature] Date 8/25/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: J. Nels	Date: 8/25/06 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2W3M Transect ID: — Plot ID: C

90 Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. none present			9.		
2. —Open water area			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-6 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC2 Wetland - C

Photographs taken today? (Y) N

Are desired wetland plant species present? Y (N)

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no veg growing here - area is under water ~6" & so seems to be either under water & dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

maybe in time - area seems to be either totally unindated & dry

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**

8/25/08

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control if needed.

Perhaps create lower outlet to let water drain out of area.

Other comments:

Completed by: Joy K Nash JKN Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location FC2 wetland

Noxious Weed Species Present:

CIAR1 - 1% - scattered
CEDI1 - <1%
ELAN1 - <1% - west side of wetland edge

Comments/Notes:

Problem w/ CIAR1 is it is very close to water +/- to SAEX1. Perhaps spraying individual plants would work. Between water + pond edge + along N. edge between FC2 + FC2/FC3

SAEX1 + SAAM1 spreading very well.

Jody K Nelson — JKN — 6/11/08
Print Name — Signature — Date

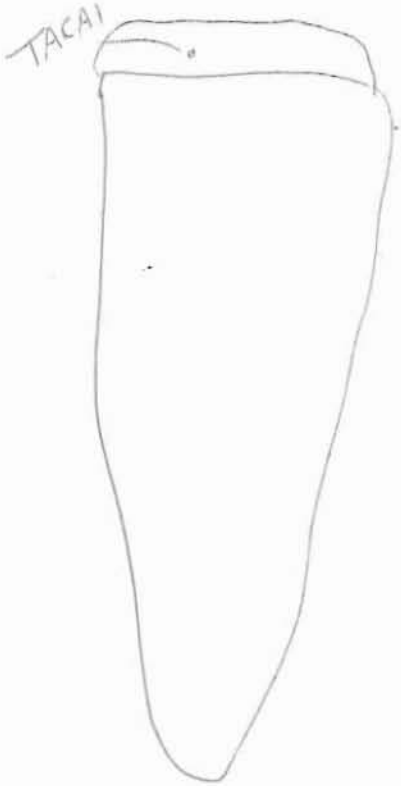
Wetland Noxious Weed Survey Form

Observer Jody Nels — Date 7/17/08
Location FCE wetland

Noxious Weed Species Present:

CIARI - 1% TARAI - <1%
SOARI - <1%
CANUI - <1%
ELANI - <1% - out of ht

Comments/Notes:



Jody Nels — 7/17/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location FC2 wetland

Noxious Weed Species Present:

CIARI - <1%

TARAI - <1% pulled up

CEDII - <1%

Comments/Notes:

N end dry now.

S end with water.

JKN JKN 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator:	Date: 8/25/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2 Hillside Wetland Transect ID: — Plot ID: A

90 Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator		
1. TYLA1	H		589 40	9. VERI	H		<1	598
2. CANE1	H		590 1	10. ELAN1	T		<1	599
3. CIAR1	H		591 1	11. SOAR1	H		<1	~~598~~ 600
4. JUBA1	H		592 2	12. SAEX1	S		4	601
5. SCVA1	H		593 40	13. AMPS1	H		<1	602
6. JUTO1	H		594 1	14. VEBR1	H		<1	603
7. AGCA1	H		595 <1	15. ELMA1	H		2	604
8. SPPE1	H		596 <1	16. AMFR1	S		<1	605
BRJA1	H		597 <1	SONU1	H		<1	606

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

Remarks: POCO1 - H - <1 607; AGSM1 - H - <1 608; PODE1 - T - <1 609; VETH1 - H - <1 610; ASSP1 - H - <1 611; POMO1 - H - <1 612; HEAN1 - H - <1 613; HOJU1 - H - <1 614; POPE2 - H - <1 615

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-6 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC2 Hillside - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing well - lots of water today

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	6	3'	2'	1.5'	1'	1'	1.5'
SAEXI	too many to count	3'	4'	3'	3'	2'	3'
ELANI	1	4'			3'		
AMFRI	3	8"	10"	1'	4"	6"	8"

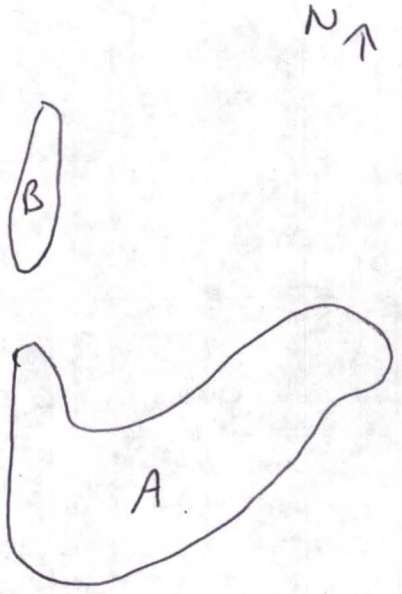
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Area looks great.



Completed by: Jody K Nelson Date 8/25/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody K Nelson	Date: 8/25/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2 Hillside wetland Transect ID: ____ Plot ID: B

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator					
616	1. Pomo1	H		<1	625	9. POAE1	T	
617	2. SpME1	H		5	626	10. CIAR1	H	
618	3. VITO1	H		<1	627	11. JUBA1	H	
619	4. ~~Am~~ ROSC1 (8/25/08)	H		<1	628	12. SAEX1 (8/25/08)	S	
620	5. AGCA1	H		13	629	13. SCVA1	H	
621	6. BUDA1	H		<1	630	14. CHE (chenopod sp.)	H	
622	7. POAR1 (8/25/08)	H		1	631	15. SPPE1	H	
623	8. AGSM1	H		<1	632	16. AGST1	H	
624	XAST1	H		<1				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-1 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MBH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

Is this Sampling Point Within a Wetland? Yes No (Circle)

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC2 Hillside Wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

ye - probly too dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - some hydric spec in estab slope - too dry needing to.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	1	6"			3"		
PODEI	~~8/25/08 7~~	3'	6"	1'	1'	2"	3"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Barely much wetland species here.

Completed by: [signature] [signature] Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08

Location FC2 Hillside wetland

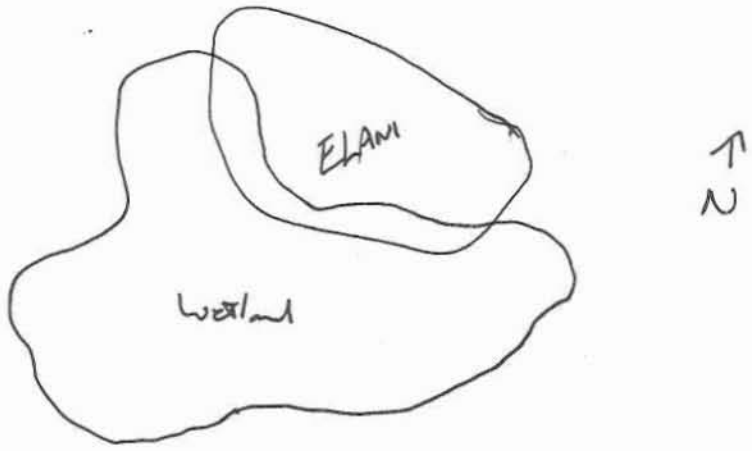
Noxious Weed Species Present:

ELAN1 - Many young ones coming up, - 1%

CIAR1 - 1% scattered

CEDI1 - < 1%

Comments/Notes:



Jody K Nelson — Print Name

Signature

6/11/08 — Date

Wetland Noxious Weed Survey Form

Observer Jodi Nels— Date 7/14/08

Location FC2 Hillside

Noxious Weed Species Present:

CEDI –

CIARI –

ELANI – cut off - <1%

Comments/Notes:

Area looks good.

Jodi Nels— JKNels— 7/17/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location FC2 Hillside Wetland

Noxious Weed Species Present:

ELANI - <10%
CIARI - <10%
VETHI - <10%
TARAI - <10% - pulled up

Comments/Notes:

ELANI were cut off earlier this summer. They are growing back already this year. Will have them sprayed.

Jody K Wells — JKW — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/25/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2/FC3 Con Flume Transect ID: F Plot ID: A

90 Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator				
690	60	1. SAEXI	S		9. PODEI	T	<1	699
691	5	2. AGCAI	H		10. ELMAI	H	<1	700
692	<1	3. BOGRI	H		11. SAAMI	S/T	<1	701
693	1	4. MEOFI	H		12. PLLAI	H	<1	702
694	3	5. AGSMI	H		13. PAVII	H	<1	703
695	3	6. CIARI	H		14. AMFRI	S	<1	704
696	<1	7. ECCRI	H		15. ELANI	T	<1	705
697	<1	8. BRINI	H		16. FEPRI	H	<1	706
698	5	TYLAI	H					

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-5' ~~(in.)~~
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/01/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKP
Location ID FC2/FC3 Confluence - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PONE1	~~8/25/08 4~~ too numerous to count	2'	1'	1'	2'	3"	3"
ELAN1	7	4'	1'	3'	2'	1'	2'
SAEX1	too numerous	4'	4'	6'	5'	5'	5'
JARA1	1	8"			10"		
SAAM1	2	3'	1.5'		1'	1'	
AMFR1	2	1'	10"		1'	6"	

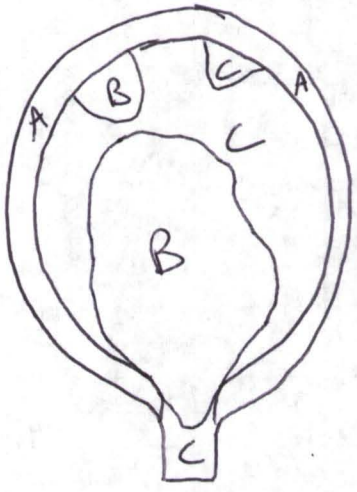
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

No forms completed for area "C". Open water habitat - 0-5' deep.



Completed by: Joy Knox Date 8/25/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/25/08 County: Jeff State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC2/FC3 Confluence Transect ID: — Plot ID: B

9 Actual Veg
707 98

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA1	H		9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

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

Remarks: OUT in standing water - OFF shore

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-5' ~~(in.)~~
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC2 / FC3 Confluence - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for agronomic weeds - control as needed.

Other comments:

Lotus TYLAI

Completed by: [signature] [signature] Date 8/25/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nelson	Date: 8/25/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? No Is the site significantly disturbed (Atypical Situation)? Yes Is the area a potential Problem Area? No (If needed, explain on reverse.)	Community ID: FC2/FC3 Confluence Transect ID: — Plot ID: C

No Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. no veg growing			9.		
2. -Open Water			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water: (estimate) 3-7 ~~(in.)~~ Ft

Depth to Free Water in Pit: 0 (in.)

Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKW
Location ID FC2/FC3 Confluence C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - water too deep - TYLA1 may eventually

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

probably too much water - too deep

Woody Plant Counts

Species	Stem Count	Height			Width		
		1	2	3	1	2	3

8/25/08

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

none

Other comments:

Completed by: Joy Knuth Date 8/25/08

Wetland Noxious Weed Survey Form

Observer Jody Nels— Date 6/11/08
Location FC2/FC3 confluence

Noxious Weed Species Present:

CIARI - 1%

CEBI - <1%

Comments/Notes:

Spry CIARI w/ backpack around edge + up slopes

CIARI near concrete drop structure - S side

Jody K Nels— Jody K Nels— 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nels- Date 7/14/08
Location FC2/FC3 wetland

Noxious Weed Species Present:

CIARI - <1%

ELAN1 - cut off - <1%

Comments/Notes:

SAEX dry well dry edge of pond.

Jody Nels- | [signature] | 7/14/08

Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location FC2/FC3

Noxious Weed Species Present:

CIARI - <1%.

ELAN1 - <1%.

Comments/Notes:

JKN 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nels—	Date: 8/25/08 County: Jeff State: Co.
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC3 Upper wetland Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SAEXI	S		9. ELMAI	H	
2. CIARI	H		10. AGSMI	H	
3. HOJUI	H		11. PLLAI	H	
4. ELANI	T		12. VETHI	H	
5. ~~AMFRI~~	~~S~~ J 8/25/08		13. BOGRI	H	
6. ELCAI	H		14.		
7. AGCAI	H		15.		
8. MEOFI	H		16.		
MEALI	H				

677 80
678 1
679 <1
680 <1
681 <1
682 4
683 1
684 1

1 685
2 686
<1 687
<1 688
<1 689

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MSH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/25/08
Observer(s) JKN
Location ID FC3 Upper Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - lots of SAEXI

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	~numerous	4'	5'	6'	3'	4'	5'
ELAN1	2						

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Looking great - SAEXI filling in nicely.

Completed by: Jody K Nels- JKN Date 8/25/09

Wetland Noxious Weed Survey Form

Observer Jody Neds— Date 6/11/08
Location FC3 upper wetland

Noxious Weed Species Present:

ELAN1 - 1 plant - west end
CIAR1 - along S. sideslope <1%

Comments/Notes:

Spray S. side slope w/ backpack

Jody Neds— Jody Neds— 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nels- Date 7/14/08
Location FC3 Upper Wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

SAEXI filling in very well. Looks great.

Jodi K Nels — JKNels — 7/14/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location FC3 Upper Wetland

Noxious Weed Species Present:

CIARI - <1%

VETHI - <1%

Comments/Notes:

JK Nick JK Nick 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC3 Lower Wetland Transect ID: — Plot ID: —

No Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. SAEXI	S		1280 25	9. JUDU1	H		<1 1289
2. TYLAI	H		1281 85	10. AGCAI	H		<1 1290
3. JUTOI	H		1282 1	11. ELMAI	H		<1 1291
4. AGSTI	H		1283 <1	12.			
5. AGSMI	H		1284 <1	13.			
6. CIARI	H		1285 <1	14.			
7. VEBRI	H		1286 <1	15.			
8. JUBAI	H		1287 1	16.			
SAAMI	T		1288 <1				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 2-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID FC3 Lower Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing well

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	too many to count now	4'	5'	6'	3'	2'	3'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch Fr weeds - control as needed. Side banks were sprayed w/ Milestone - 2008.

Other comments:

Area has come - very well. SAEXI starting to fill in + out along edge of TYLA1.

Completed by: Jody K Nuck Jody K Nuck Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location FC3 lower wetland

Noxious Weed Species Present:

CIARI - 2%.

Comments/Notes:

SAEXI starting to fill in along edge

Jody K Nelson — 6/11/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 7/17/08
Location FC3 Lower Wetland

Noxious Weed Species Present:

CIAR1 - sprayed <1%
HYPE1 - <1%

Comments/Notes:

Lots of TYLA1 & SAEX1. Looks good.

Jody Nels JKNels 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location FC3 Lower Wetland

Noxious Weed Species Present:

CIARI - <1%

VETHI - <1%

Comments/Notes:

Side slopes with sprayed = 2008 for CIARI. Looking very good now.

Jody Nelson JKN 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/21/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? ~~Yes~~ No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCW wetland Transect ID: — Plot ID: A

90 Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. TYLA1	H		60 950	9. POPE1	T		<1 959
2. SPPE1	H		35 951 8/21/08	10. AGSC1	H		<1 960
3. JUBA1	H		20 952	11. SCVA1	H		2 961
4. ELAN1	T		<1 953	12. ELCA1	H		<1 962
5. CIAR1	H		2 954	13. AGST1	H		<1 963
6. JUTO1	H		1 955	14. BRIN1	H		<1 964
7. CEDI1	H		<1 956	15. SCPU1	H		<1 965
8. POMO1	H		<1 957	16. GRSQ1	H		1 966
SAEX1	S		1 958	KOSC1	H		<1 967

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

Remarks: TARA - S - <1 968 HOJU1 - H - <1 972 ~~BRIN1 - H - <1 976~~ deleted duplicate record 12/29/08
CANE1 - H - <1 969 SAAM1 - T - <1 973 COCA1 - H <1 977
SPME1 - H - <1 970 PLMA1 - H - <1 974
ELMA1 - H - <1 971 DEVI1 - H <1 975

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 0-10 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/1-/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC4 Wetland A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looking very good.

Woody Plant Counts

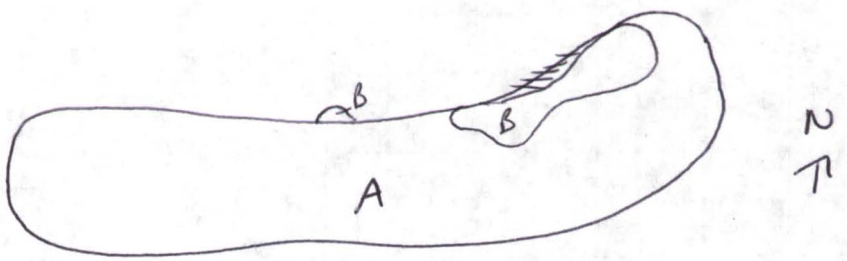
		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	Too many to count	5'	3'		7'	4'	
SAAMI	1	3'			1'		
PODEI	1	1'			6"		
ELANI	5-10	5'			2'		
TARAI	2	1'	2'		3"	6"	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:



Completed by: Jody K Rd JK Rd Date 8/21/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE 2m Investigator: Judy Nels~	Date: 8/21/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCW Wetland Transect ID: — Plot ID: B

% Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual cover	
1. SAEXI	S		60	978
2. SAAMI	T		2	979
3. ELANI	T		2	980
4. TYLAI	H		2	981
5. JUBAI	H		5	982
6. GRSQI	H		#3	983
7. BOLUI	H		<1	984
8. BOGRI	H		<1	985
ELMAI	H		<1	986
9. CIARI	H		25	987
10. SPPEI	H		2	988
11. JUTO1	H		<1	989
12. CEDII	H		<1	990
13. PODEI	H		<1	991
14. APCAI	H		<1	992
15. MEOFI	H		<1	993
16. NECAI	H		<1	994
HYPEI	H		<1	995

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

Remarks: AGCAI - H - <1 996

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	0	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC4 Wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - SAEXI filling in nicely.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
ELANI	2	4'	3'		4'	4'	
PODEI	Too numerous	6'	3'	3'	5'	2'	1'
SAEXI	to count	10'	7'	5'	14'	6'	6'
SAAMI	4	6'	4'	7'	6'	3'	8'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weed - control as needed.

Other comments:

Looking OK.

Completed by: Jody Kahl Date 8/21/08

Wetland Noxious Weed Survey Form

Observer Jody Nels— Date 6/18/08
Location FC4 wetland

Noxious Weed Species Present:

CIAR1 - <2%
TARA1 - <1% - pulled today
ELAN1 - <1% - NE + E edges of wetland

Comments/Notes:

Backyard spring N edge of FC4 wetland for CIAR1
+ little fig between FC4 + FC5

Jody K Nels— JK N 6/18/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Joey N. Date 7/14/08
Location FC4 Wetland

Noxious Weed Species Present:

ELANI - <1%. - scattered along NE edge
CIARI - 1%
VEBRI - <1%

Comments/Notes:

Put tallgrass mix w/ PAVI1 along all with 1 mowing.

Joey N. J K N 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location FC4 wetland

Noxious Weed Species Present:

CIARI - 1%

ELAN1 - <1%

TARA1 - <1% - pulled

Comments/Notes:

SPPE1 - looking very nice throughout wetland

Spot spray CIARI?

Jon K Nelson — JK Nelson — 8/13/08

Print Name — Signature — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/21/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC4 Hillside Wetland Transect ID: — Plot ID: A

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator		
1. TYLA1	H		9. FEPR1	H		1	1006
2. JUBA1	H		10. SCPU1	H		5	1007
3. SPPE1	H		11. JUTO1	H		3	8/21/08 1008
4. HEAN1	H		12. AGSM1	H		<1	1009
5. AGST1	H		13. MUAS1	H		<1	1010
6. BRIN1	H		14. MEOF1	H		<1	1011
7. AMAR1	H		15. ASSP1	H		<1	1012
8. CIAR1	H		16. CACA1	H		<1	1013
LASE1	H						

997 3
998 45
999 15
1000 4
1001 8
1002 1
1003 <1
1004 2
1005 <1

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC 4 Hillside Wetland - A

Photographs taken today? (Y) N

Are desired wetland plant species present? Y N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - wetland species are establishing very well.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

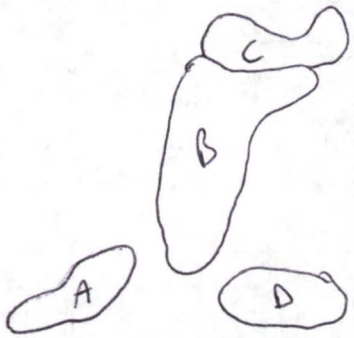
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - spray as needed.

Other comments:

Area is expanding up the hill from last year. Looking very good. Lots of hydrophytes.



Completed by: [signature] [signature] Date 8/21/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Judy Nels	Date: 8/21/08 County: Jeffer State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC4 Hillside wetland Transect ID: — Plot ID: B

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator					
1. SPPE1	H		1014	35			
2. AGST1	H		1015	10			
3. CIAR1	H		1016	<1			
4. HAJU1	H		1017	<1			
5. GRSQ1	H		1018	<1			
6. ~~ELMA1~~ FEOV1	H		1019	<1	8/21/08		
7. BRIN1	H		1020	1			
8. HEAN1	H		1021	<1			
SOAR1	H		1022	<1			

Dominant Plant Species	Stratum	Indicator			
9. CEDI1	H		<1	1023	
10. TAOF1	H		<1	1024	
11. JUBA1	H		30	1025	
12. ~~ERCO1~~ AGSC1	H		<1	1026	8/21/08
13. PLLA1	H		<1	1027	
14. LYCO1	H		<1	1028	
15. CACA1	H		<1	1029	
16. AMAR1	H		<1	1030	
MUAS1	H		5	1031	

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

Remarks: SCPU1 - H - 2 1032; PHPR1 - H - <1 1033; JUTO1 - H - <1 1034; RUCR1 - H - <1 1035; TYLA1 - H - 8 1036; ~~ELAN1 - H - 1~~ 8/21/08; AGRE1 - H - <1 1037; ELMA1 - H - <1 1038

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	1-2 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

none done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC4 Hillside Wetland - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing very well

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking great - lots of diversity. SPPE1 is doing great.

Completed by: [signature] [signature] Date 8/21/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/21/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC4 Hills Lowland Transect ID: — Plot ID: 6

% Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual cover
1. TYLAI	H		1039 60
2. ELANI	H		1040 2
3. JUBAI	H		1041 20
4. CIARI	H		1042 4
5. ASSPI	H		1043 1
6. OEVII	H		1044 <1
7. FEPRI	H		1045 <1
8. ELMA	H		1046 1
9. MUASI	H		<1 1047
10.			
11.			
12.			
13.			
14.			
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 2-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC4 Hillside Wetland - C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing fine

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
ELANI	9	11'	8'	5'	7'	5'	2'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area looks good - most of it was never disturbed - just very lowest end

Completed by: Jody K Nelson Jody K Nelson Date 8/21/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/21/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC4 Hillside Wetland Transect ID: — Plot ID: D

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual Cover
1. SPPE1	H		40
2. CACA1	H		5
3. BRIN1	H		3
4. EUMA1	H		<1
5. JUBA1	H		25
6. SCPU1	H		4
7. FEPR1	H		1
8. AGST1	H		1
9. JUTO1	H		<1
10. HOJU1	H		<1
11. AGSM1	H		<1
12. HEAN1	H		<1
13. KOSC1	H		<1
14. AGCA1	H		<1
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC4 Hillside Wetland - D

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - Filling in nicely

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control weeds as needed.

Other comments:

Looking very good. SPPEI filling in very well.

Completed by: Jody Knols Date 8/21/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/18/08
Location FC4 hillside wetland

Noxious Weed Species Present:

CIARI - 2%
CEDII - <1%
SOARI - <1%

ELANI - top of hill under PODEI

Comments/Notes:

LOCOI - on east side of sloped area - N of PODEI then <1%

Spring N side of riprap dam FC4 - CEDII, CIARI

Jody K Nelson
Print Name

Signature

6/16/08
Date

Wetland Noxious Weed Survey Form

Observer Jody Mels- Date 7/14/08
Location FC4 Hillside Wetland

Noxious Weed Species Present:

CIARI - <1%
SOLARI - <1%
ELANI - <1% (2 plants) - under POAE1 at top of hill.

Comments/Notes:

Lots of SPPE1. Looks great!

Jody KMels — KMels — 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location FC4 Hillside Wetland

Noxious Weed Species Present:

CEDI1 - <1%
CIAR1 - 1%
SOAR1 - <1%
ELAN1 - <1% - Top of hill above TYLA1

Comments/Notes:

LOCU1 - a east side small amt - spray next yr.

Spot spray CIAR1 ?

Jay KNL — Print Name

KNL — Signature

8/13/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nelson	Date: 8/21/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC5 East Wetland 1 Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SPPE1	H		9. KOSC1	H	
2. HOLU1	H		10.		
3. AGCA1	H		11.		
4. SCVA1	H		12.		
5. JUBA1	H		13.		
6. FERR1	H		14.		
7. CIAR1	H		15.		
8. AGST1	H		16.		

1062 8
1063 15
1064 2
1065 <1
1066 <1
1067 2
1068 1 ~~3~~ 8/21/08
1069 <1

<1 1070

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	NA	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/21/08
Observer(s) JKN
Location ID FC5 East Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

See below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Probably - area is fairly dry now, but there are several wetland species present - so there is enough water for them to have established. Have to see if - more normal precip year how things develop

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.
Area was sprayed - 2008 for CIARI.

Other comments:

New wetland area that had not been seen before.
Nice area.

Completed by: Jody K Nels — Date 8/21/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/20/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FC5 Wetland-West Transect ID: Plot ID:

VEGETATION

	Dominant Plant Species	Stratum	Indicator	% Actual Cover
1071	1. JUBA1	H		8
1072	2. SPPE1	H		12
1073	3. AGSM1	H		4
1074	4. KOSC1	H		10
1075	5. HOJU1	H		15
1076	6. POMO1	H		2
1077	7. TYLA1	H		1
1078	8. LASE1	H		<1
1079	PLMA1	H		<1
1080	9. CIAR1	H		<1
1081	10. SAEX1	S	& 8/20/08	1
1082	11. SOAR1	H		<1
1083	12. HEAN1	H		<1
1084	13. JUTO1	H		<1
1085	14. TARA1	S	& 8/20/08	<1
1086	15. POAR1	H		<1
1087	16. AGST1	H		<1
1088	AGSC1	H		<1

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

Remarks:
POCO1 - H - <1 1089 AGCA1 - H - <1 & 8/20/08 1092
SONU1 - H - <1 1090 ERCU1 - H - <1 1093
BUBA1 - H - <1 1091 DAGL1 - H - <1 1094

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/24/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/20/08
Observer(s) JKN
Location ID FC5 Wetland – West

Photographs taken today? Y (N) Later

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - area has done very well w/ no managmt

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	3	1.5	2'	2'	1'	2.5'	1.5'
TARA	3	3'	3'	8"	2'	1'	6"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - manage as needed.

Other comments:

Never saw this new wetland before. Coming in very well.

Completed by: [signature] [signature] Date 8/20/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Melvin's Hay Wetland Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual Cover
1. HOJU	H		1255 70
2. AGSMI	H		1256 10
3. KOSCI	H		1257 2
4. GRSQ1	H		1258 5
5. POCOI	H		1259 <1
6. BRJA1	H		1260 <1
7. VEBRI	H		1261 <1
8. TAOFI	H		1262 <1
VETHI	H		1263 <1
9. CEDI1	H		1264 <1
10. BRIN1	H		1265 <1
11.			
12.			
13.			
14.			
15.			
16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Area wet now after weekend rain (2")

MGH 12/21-8

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Melvin's Way Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - area almost too dry to establish a good wetland

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - if at all. Only gets water from rain & snow melt. An isolated pool.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed. Most of area sprayed last spring when very dry.

Other comments:

Need more water for a good wetland to establish here.

Completed by: Joy K Nel JK Nel Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nals — Date 6/11/08

Location Melvins Way Wetland

Noxious Weed Species Present:

CEDII - <1%

ERCII - <1%

VETHI - <1%

Comments/Notes:

Area sprayed this year - totally dry now.

Jody K Nals — 6/11/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jay Nels Date 7/14/08
Location Medicine Way Wetland

Noxious Weed Species Present:

VETHI - <1%

Comments/Notes:

All ~~10 To 1~~ 7/14/08 Halo this year. Area totally dry.

Jay K Nels — JK Nels — 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location Melvins Way Wetland

Noxious Weed Species Present:

VETHI - <1%.

Comments/Notes:

Very dry this year - all HOJUL.

Jody K Nolz — JKN — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats
Applicant/Owner: DOE LM
Investigator: Jody Nelson

Date: 8/19/08
County: Jeffco
State: CO

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? (Yes) No
(If needed, explain on reverse.)

Community ID: Mound
Transect ID: —
Plot ID: —

East Wetland

% Actual cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator				
1141	70	1. TYLAI	H		9. ELMAI	H	5 1150
1142	10	2. SAAMI	T		10. ELANI	T	<1 1151
1143	3	3. SAEXI	S		11. HEANI	H	<1 1152
1144	4	4. AGSTI	H		12. VERLI	H	<1 1153
1145	4	5. CIARI	H		13. FEPRI	H	<1 1154
1146	<1	6. VETHI	H		14. PHPRI	H	<1 1155
1147	<1	7. AGCAI	H		15.		
1148	<1	8. SOARI	H		16.		
1149	3	JUTOI	H				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Mound East Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - area seems to have plenty of water even during a drought for the wetland to exist

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
ELAN1	1	1'			3"		
SAAM1	too many to count	6'	7'	8'	3'	4'	5'
SAEX1	"	1'	3'	4.5'	1'	2'	3'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area looking very good.

Completed by: Joy Kluck Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/18/08

Location Mound East Wetland

Noxious Weed Species Present:

CIARI - <1%

VETHI - <1%

Comments/Notes:

Jody K Nelson — [signature] — 6/18/08

Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer Jay Nels Date 7/14/08
Location Mound East Wetland

Noxious Weed Species Present:

CIARI - <1%
VETHI - <1%
VEBLI - <1%

Comments/Notes:

Looking very good.

Jay Nels — Jay Nels — 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location Mound East Wetland

Noxious Weed Species Present:

CIARI - 1%

VEBLI - <1%

VETHI - <1%

Comments/Notes:

Looking good.

Jody Knols — JKNols — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jeff State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Mound Transect ID: — Plot ID: —

West Wetland

Do Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator		
1. SAAM1	T		9. PHPR1	H		40	1121
2. SAEX1	S		10. CIAR1	H		25	1122
3. SALU1	S		11. VETH1	H		1	1123
4. PODE1	T		12. FEPR1	H		<1	1124
5. AGSM1	H		13. JUBA1	H		15	1125
6. AGCA1	H		14. PLMA1	H		2	1126
7. SCPU1	H		15. POCO1	H		8	1127
8. TYLA1	H		16. ELMA1	H		15	1128
JUTO1	H		OEVI1	H		10	1129

1130
2 & 8/19/08
10 & 8/19/08 1131
<1 1132
<1 1133
1 1134
1 1135
2 1136
1 1137
<1 1138

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

Remarks: AGST1 - H - 1 1139
BRIN1 - H - <1 1140

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/2/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Mound West Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes – even though a drought year area is much more dense w/ vegetation than previous years. Good subsurface moisture

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAm	> Too many to count	5'	7'	8'	4'	6'	12'
SAEXI		6'	5'	7'	6'	5'	5'
PODEI	1	15'			2'		
SALUI	2	2'	7'		2'		

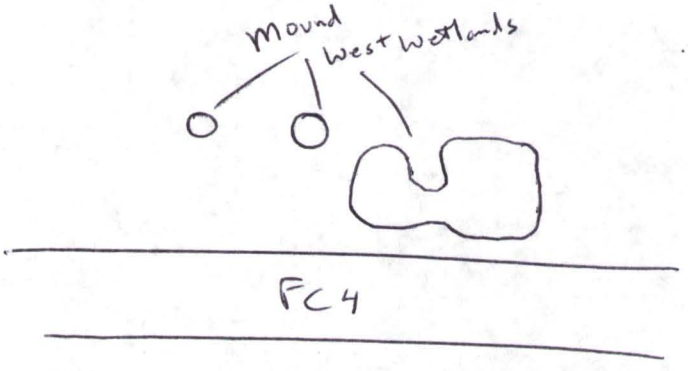
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area looking very good - even w/ drought this year.



Completed by: Jody Knols — Date 8/19/08

Wetland Noxious Weed Survey Form

Observer —Jody Nels— Date 6/18/08
Location Mound West

Noxious Weed Species Present:

CIARI- <2%

Comments/Notes:

Seed N side of FC4 riprap - between riprap + wattle - to FC4

Harrow area, seed, + mat area.

Jody K Nels — Jody K Nels — 6/18/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jay Huber Date 7/14/08
Location Mound West Wetland

Noxious Weed Species Present:

CIARI - 10.

Comments/Notes:

Lots of SAAMI - getting tall, 6-7' tall.

Jay Huber Jay Huber 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKW Date 8/13/08

Location Mound West Wetland

Noxious Weed Species Present:

CIARI - 1%

Comments/Notes:

Perhaps seed lower wet area.

Spot spray CIARI?

Jody K Nels — JKW — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jeffers— State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Mound SW wetland Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator	
1. POAE1	T		9. AGCA1	H		1 1108
2. SAEX1	S		10. TYLA1	H		7 1109
3. SAAM1	T		11. COCA1	H		<1 1110
4. ELMA1	H		12. GRSQ1	H		<1 1111
5. JUTO1	H		13. AGST1	H		2 1112
6. ECCR1	H		14. PLMA1	H		<1 1113
7. CIAR1	H		15. HEAN1	H		<1 1114
8. AGSM1	H		16. JUDU1	H		<1 1115
EUSE1	H					

1099 <1
1100 1
1101 <1
1102 25 ~~20~~ 8/19/08
1103 20
1104 1
1105 ~~8/19/08~~ 2
1106 15
1107 1

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 12/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKW
Location ID Mound SW wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - lots of ELMAI & JUTO coming up. Even in drought year the wetland species are doing OK.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	3	3'	1'	3"	1'	5"	3"
SAAMI	5	2.5'	1'	10"	8"	3"	2"
SAEXI	4	3'	1.5'	8"	2'	10"	4"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area doing very well for drought year. Should expand in normal precip. year.

Completed by: Joy K Nel JKNel Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jay Nds Date 6/18/08
Location Mound SW wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

Jay KNds — 6/18/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 7/14/08
Location Mound SW wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

JUTOI looking good this year.

Jody K Nels — Jody K Nels — 7/14/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location Mound SW Wetland

Noxious Weed Species Present:

CIARI - 1%

Comments/Notes:

Lots of JUTOI & ELMAI this year. Looks good even though area is dry now.

Jack Nods — Print Name

[signature] — Signature

8/13/08 — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nels	Date: 8/19/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Mound W-W Wetland Transect ID: — Plot ID: —

No Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. SCPU1	H		1116 70	9.			
2. AGSM1	H		1117 10	10.			
3. BOGR1	H		1118 <1	11.			
4. SAAM1	T		1119 5	12.			
5. SAEX1	S		1120 2	13.			
6.				14.			
7.				15.			
8.				16.			

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: area is dry now

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Mound W-W wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - SCPU1 doing very well - even in drought year

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAM1	2	3'	3.5'		2'	3'	
SAEX1	1	3.5'			1'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

W/ more water - normal year wetland area should enlarge in size. Area very lush + green right now.

Completed by: Jody K Nel Jody K Nel Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jay Nods — Date 6/18/08

Location Mound West - West

Noxious Weed Species Present:
none
Comments/Notes:

Jay Knods — 6/18/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Nolan Date 7/14/08
Location Mound West - West Wetland

Noxious Weed Species Present:
None

Comments/Notes:

Jody K Nolan — Jody K Nolan — 7/14/08

Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location Mound West-West Wetland

Noxious Weed Species Present:

None

Comments/Notes:

Area looks good

Jody Knoblauch — JKN — 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Mowed Lawn / Wetland Transect ID: — Plot ID: —

Do Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA1	H		9.		
2. AGST1	H		10.		
3. AGSM1	H		11.		
4. AGCA1			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

1095 40
1096 20
1097 30
1098 5

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	0	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Starting to dry out.

MGA 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID Mound Well Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

See below

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

more or less - area is saturated ~~today~~ - has been dry most of year due to drought. Looks smaller than last year.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Not very big for a wetland area - but may develop more in time w/ normal precipitation years.

Completed by: Jody Knels — Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 6/18/08

Location Mound Well Area Wetland

Noxious Weed Species Present:
none
Comments/Notes:

Jody K Nels — Print Name

[signature] — Signature

6/18/08 — Date

Wetland Noxious Weed Survey Form

Observer Jody Nels Date 7/14/08

Location Mound West Wetland

Noxious Weed Species Present:

None

Comments/Notes:

Area very dry this year - shrinking in size.

Jody K Nels JKN 7/14/08

Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location Mound Well Wetland

Noxious Weed Species Present:

none

Comments/Notes:

Very dry this year.

Jon Knoblock JKN 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Judy Nedds	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: OLF - East Channel Transect ID: – Plot ID: A

90 Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA1	H		9. SAEX1	S	
2. POCO1	H		10.		
3. ECCR1	H		11.		
4. SAAM1	T		12.		
5. HOJU1	H		13.		
6. AGCA1	H		14.		
7. JUTO1	H		15.		
8. SCI - Scirpus sp	H		16.		

403 30
404 2
405 5
406 5
407 30
408 5
409 5
410 21

2 411

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-2 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID OLF - East Channel - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAMI	3	3'	1.5'	2'	1'	10"	2'
SAEX1	1	3'			4'		

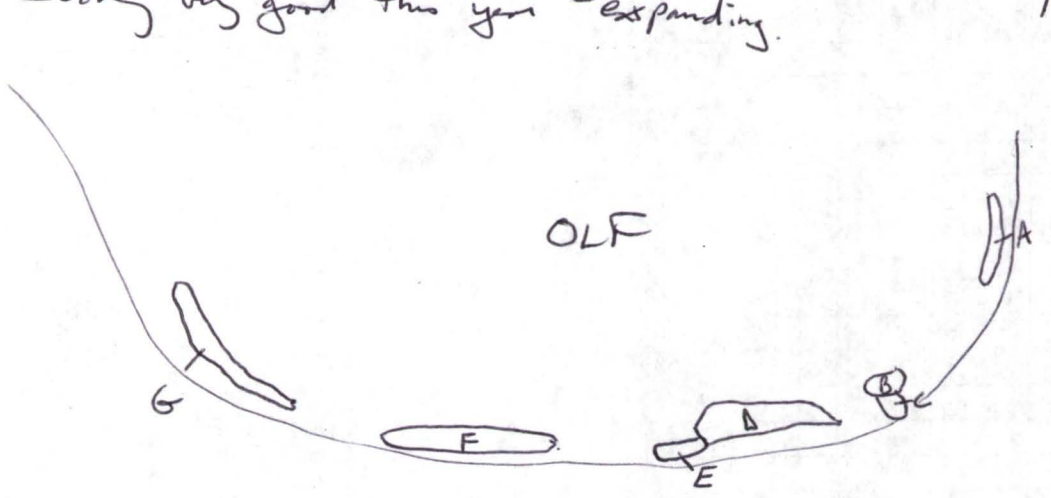
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking very good this year - expanding.



Completed by: [signature] [signature] Date 8/26/08

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

Project/Site: Rocky Flats	Date: 8/26/08
Applicant/Owner: DOE LM	County: Jeff
Investigator: Jody Nels	State: CO
Do Normal Circumstances exist on the site? Yes (No)	Community ID: OLF-SE cottonwood
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: —
Is the area a potential Problem Area? Yes (No)	Plot ID: B
(If needed, explain on reverse.)	

90% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. ELAN1	T		412 <1	9. BRJA1	H		<1 421
2. SAEX1	S		413 3	10. LEFA1	H		<1 422
3. PODE1	T		414 1	11. POMO1	H		<1 423
4. SPPE1	H		415 1	12. TYLA1	H		8 424
5. AGST1	H		416 <1	13. JUTO1	H		10 425
6. FEPR1	H		417 <1	14. SOAR1	H		<1 426
7. AGLA1	H		418 2	15. POCO1	H		<1 427
8. SCVA1	H		419 20	16. CANE1	H		<1 428
JUBA1	H		420 20	HEAN1	H		<1 429

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

Remarks: ASPO1-H-<1 430; CIIN1-H-<1 433; POPE2-H-<1 437; ASLA1-H-<1 441; HOJU1-H-<1 431; SEVI1-H-<1 434; PLLA1-H-<1 438; LASE4-H-<1 435; POPR1-H-<1 439; SAAM1-T-<1 432; SCPU1-H-1 436; CIAR1-H-1 440

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Seep flowing good today

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID OLF - SE Corner - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - doing very well

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI >	~~too numerous to count~~	8"	1.5'	1'	3"	1'	3"
SAEXI		3'	2'	3'	10"	10"	1'
SAAMI	3	6"	1'	1'	6"	3"	8"
ELANI	2	2'	4'		6"	2'	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking very good. Lots of Sedge + rush.

Completed by: Jody KNK JKNK Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jeffco State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: OLF-SE corner Transect ID: — Plot ID: C

Do Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator		
1. TYLA1	H		442 8	9. GEMA1	H		<1	451
2. LUBA1	H		443 75	10. SOAR1	H		<1	452
3. SYOC1	S		444 8	11. HEAN1	H		<1	453
4. RUCR1	H		445 <1	12. PLLA1	H		<1	454
5. EPCI1	H		446 1	13. FEPR1	H		<1	455
6. CIAR1	H		447 1	14. BOGR1	H		<1	456
7. PAVI1	H		448 <1	15. ERCI1	H		<1	457
8. VETH1	H		449 <1	16. BRIA1	H		<1	458
VEBL1	H		450 <1	POCO1	H		<1	459

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

Remarks: BRIN1 - H - <1 460
AGSM1 - H - 1 461
SAEX1 - S - <1 462

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-2 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MBH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID OLF SE Corner - C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - looking good + expanding

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SYOC1	Too numerous	3'	3'	2.5'	1'	1'	1'
SAEX1	9	3'	3'	2'	1'	1'	8"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Looks very good. Filling in nicely + expanding.

Completed by: [signature] [signature] Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nelson	Date: 8/26/08 County: Jeff State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: OLF-SAEX Buttress Transect ID: — Plot ID: A

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SAEXI	S		9. CIARI	H	
2. AGSMI	H		10. OXOII	H	
3. VETH	H		11. ASLAI	H	
4. BAVUI	H		12.		
5. LYOFI	H		13.		
6. ~~8/26/08~~ OEVII	H		14.		
7. AGCAI	H		15.		
8. AMPSI	H		16.		

463 98 | 464 <1 | 465 <1 | 466 <1 | 467 <1 | 468 <1 | 469 1 | 470 <1

1 471 | <1 472 | <1 473

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: appears dry beneath solid canopy of SAEXI

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)		(Circle)
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID OLF SAEXI Buttress - D

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - Solid canopy of SAEXI is present

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	too numerous to count	6'	7'	8'	6'	6'	5'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

none

Other comments:

SAEXI has filled back in across disturbed area + now is a solid canopy like along rest of stream.

Completed by: Jody KM JKM Date 8/26/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: OLF - Buttress Transect ID: — Plot ID: E

VEGETATION

Dominant Plant Species	Stratum	Indicator	% Actual Cover	% Estimated
1. JUBAI	H		55	60
2. CIARI	H		25	
3. NECAI	H		1	
4. THRHI	H		<1	
5. CYOFI	H		2	
6. BAVUI	H		2	
7. ACMII	H		<1	
8. GEMAI	H		<1	
THARI	H			

Dominant Plant Species	Stratum	Indicator	% Actual Cover	% Estimated
9. SYOCI	S		10	483
10. SIALI	H		<1	484
11. HYPEI	H		<1	485
12. POGRI	H		<1	486
13.				
14.				
15.				
16.				

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: dry now

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

Is this Sampling Point Within a Wetland? (Circle) Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID OLF - Buttress - E

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SYOC1	Too numerous to count	2'	2'	3'	8"	10"	10"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking pretty good.

Completed by: Jody K Nelson Date 8/26/10

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: OLF-SAEX1 Buffalo Wet Transect ID: — Plot ID: F

VEGETATION

	% Actual Cover	Dominant Plant Species	Stratum	Indicator
487	90	1. SAEXI	S	
488	10	2. AGCAI	H	
489	1	3. SYOCI	S	
490	<1	4. GEMAI	H	
491	3	5. CIARI	H	
492	1	6. VETHI	H	
493	<1	7. TYLAI	H	
494	<1	8. JUTOI	H	
495	<1	SCPAI	H	
		9. HYPEI	H	
		10. AMFRI	S	
		11. COMAI	H	
		12. AMPSI	H	
		13. BOGRI	H	
		14. CYOFI	H	
		15. SAAMI	H	
		16. SOCAI	H	
		PRVII	S	

<1	496	
2	497	
<1	498	
<1	499	
<1	500	
<1	501	
4	502	
<1	503	
1	504	

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

Remarks: RUCRI - H - <1 505
PODEI - T 4 506
VEBLI - H - <1 507

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-2 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JRN
Location ID OLF - SAEXI Buttress West - F

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - SAEXI is solid canopy - just like along rest of stream

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	Too numerous	10'	10'	8'	5'	6'	4'
PODEI	3	5'	5'	10'	6'	5'	5'
SAAMI	3	7'	7'	4'	6'	6'	3'
PRVII	2	1'	1'		10"	10"	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking very good - SAEXI has grown well & taken over area.

Completed by: [signature] [signature] Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nds — Date 6/18/08
Location OLF Wetlands

Noxious Weed Species Present:

CEDI1, <1%
CIARI <1%
CIINI <1%

Comments/Notes:

Jody K Nds — 6/18/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer —Jody Nels— Date 7/14/08
Location OLF Wetlands

Noxious Weed Species Present:

SAAM1 - <1%
SAEX1 - <1% > Boom 3
VETH1 - <1%
CIAR1 - <1%

Comments/Notes:

This year may expansion of SAEX1 at bottom of buttress.

Jody K Nels — JKN — 7/14/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/14/08

Location OLF

Noxious Weed Species Present:

ELANI - <1%
CIARI - <1%
VETHI - <1%
HYPE1 - <1%

Comments/Notes:

Areas looking good.

Jake Neds — JKN — 8/14/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Joy Nelson	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF-N. Channel Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1.	TYLAI	H	
2.	HOJUI	H	
3.	PAVII	H	
4.	VERLI	H	
5.	JUDUI	H	
6.	ELMAI	H	
7.	AGSTI	H	
8.	POCOI	H	
	JUTOI	H	
9.	SAAMI	T	
10.	SAEXI	S	
11.	SONUI	H	
12.	OEVII	H	
13.	DAGLI	H	
14.	ASLAI	H	
15.	AGCAI	H	
16.	FEPRI	H	
	ECCRI		

63 15
64 5
65 20
66 <1
67 5
68 1
69 1
70 <1
71 <1

4 72
1 73
<1 74
<1 75
<1 76
<1 77
<1 78
<1 79
1 80

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

Remarks: AGSMI-H-<1 81; AMARI-H-<1 82; SPCRI-H-<1 83; SPNEI-H-<1 84; ANGEI-H-<1 85

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID PLF - N. Channel

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAM1	Too numerous	3.5'	2'	2'	2'	1'	1'
SAEX1	3	2'	3'	2'	1.5'	1'	10"
PODE1	1	3'			2'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed

Other comments:

Looks good for such a dry year.

Completed by: Joyce Nelson Joyce Nelson Date 8/27/08

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

Project/Site: Rocky Flats	Date: 8/27/08
Applicant/Owner: DOE LM	County: Jefferson
Investigator: Jody Nelson	State: CO

Do Normal Circumstances exist on the site?	Yes (No)	Community ID: PLF-5 Channel
Is the site significantly disturbed (Atypical Situation)?	(Yes) No	Transect ID: —
Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes (No)	Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
86 10	1. SAEXI	S		9. JUNUI	H		<1	95
87 30	2. SAAMI	T		10. TYLAI	H		1	96
88 1	3. JUDUI	H		11. SCVAI	H		<1	97
89 15	4. BUDAI	H		12. FEPRI	H		<1	98
90 25	5. AGCAI	H		13. OEVII	H		<1	99
91 5	6. ANGEI	H		14. TAOFI	H		<1	100
92 3	7. POLOI	H		15. AGSMI	H		<1	101
93 5	8. JUTOI	H		16. BRINI	H		<1	102
94 H	PACAI	H		SONUI	H		<1	103

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

Remarks: MEOFI-H-<1 104; MEALI-H-<1 105; SAIRI-S-<1 106; PLLAI-H-<1 107; PAVII-H-<1 108; SPCRI-H-<1 109; CIARI-H-<1 110; AMART-H-<1 111; PODEI-T-<1 112

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)		(Circle)
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No		Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID PLF - S. Channel

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Yes - drying out too much - weeds mostly BUDA1 + AGCA1

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - too dry this year.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	> Too numerous to count	3'	2'	4'	1'	1'	#1 ✓ 8/27/08
SAAM1		5'	4'	3'	4'	3'	2'
PODE1	2	8"	2'		4"	8"	
SAIR1	1	4'			3'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Dry this year - wetland area much smaller than in past.

Completed by: [signature] [signature] Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF-N side E Fen Transect ID: — Plot ID: —

Do Actual veg

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. TYLA1	H		9.		
2. JUBA1	H		10.		
3. HYPE1	H		11.		
4. CIAR1	H		12.		
5. POPR1	H		13.		
6. ~~Cound 8/27/08~~	H		14.		
7. JUTO1			15.		
8.			16.		

132 45
133 3
134 6
135 6
136 21
137 21

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)		(Circle)
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No		Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID PLF - N side E. Fork

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - most ~~not~~ of 8/27/08 hydrophytic species are dead

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Body - too dry - now about ½ size as before

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

CIAR1 sprayed in 2008 - all dead here.

Other comments:

Area has dried up in 2008 w/ no rain. Smaller than in past.

Completed by: Jay K N K N Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF - west wetland on E. fen Transect ID: — Plot ID: —

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1.	LEFA1	H	
2.	JUTO1	H	
3.	HOLA1	H	
4.	FEPR1	H	
5.	BUDA1	H	
6.	SPCR1	H	
7.	CANE1	H	
8.	POMO1	H	
	AGSM1	H	
9.	SCVA1	H	
10.	PAVI1	H	
11.	JUAU1	H	
12.	AGCA1	H	
13.	TYLA1	H	
14.	JUBA1	H	
15.	CIAR1	H	
16.	SAAM1	T	
	SPPE1	H	

113 2 114 30 115 1 116 <1 117 <1 118 1 119 3 120 3 121 3

<1 122 3 123 10 124 3 125 3 126 2 127 <1 128 <1 129 <1 130

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

Remarks: ELCAT H - <1 131

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID PLF - West wetland on E. fork

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

Species	Stem Count	Height			Width		
		1	2	3	1	2	3
~~none here~~ 8/27/08							
SAAM1	1	6"			2"		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Dry year - area has shrunk it seems.

Completed by: Jody K Nel Jody K Nel Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jeffers— State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF SAEX1 area Transect ID: — Plot ID: —

0% Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. SAEX1	S		55	9. ELCA1	H		5
2. ELAN1	T		7	10. NECA1	H		<1
3. SOMI1	H		<1	11. HYPE1	H		<1
4. AGCA1	H		20	12. TYLA1	H		<1
5. CEDI1	H		<1	13. GRSQ1	H		<1
6. AGSM1	H		2	14. PODE1	T		<1
7. CIAR1	H		2	15. ASSP1	H		<1
8. VETH1	H		<1	16.			

153 154 155 156 157 158 159 160 — 161 162 163 164 165 166 167

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0	(in.)
Depth to Free Water in Pit:	NA	(in.)
Depth to Saturated Soil:	NA	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
dry on hillside

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID PLF - SAEXI Hillside

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

Yes - very dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - barely - SAEXI has not increased in height much slowly filling in, but understory is non wetland speci

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	X too numerous to count	7'	6'	5'	5'	3'	2'
ELANI		4'	5'	3'	2'	4'	2'
POOEI	3	8"	1.5'	1'	8"	4"	3"

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control ELANI + other weeds.

Other comments:

Area very dry.

Completed by: Jody K Nels — JKN Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/27/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF-SW Transect ID: — Plot ID: —

Hillcrest Wetland

Do Actual cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1.	SAAM1	T		9.	AMPS1	H		<1 145
2.	SAEX1	S		10.	SCVA1	H		<1 146
3.	TYLA1	H		11.	ELAN1	T		<1 147
4.	CIAR1	H		12.	GRSQ1	H		<1 148
5.	AGCA1	H		13.	GLLE1	H		2 149
6.	(Crepis)	H		14.	SYOC1	S		10 150
7.	OSMO1	H		15.	SOMI1	H		1 151
8.	CEDI1	H		16.	ASFA1	H		<1 152

138 70
139 45
140 25
141 2
142 5
143 <1
144 <1

8/27/08

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

Not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKN
Location ID PLF - SW Hillside

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAM1	2	20'	5'		25'	3'	
SAEX1	too numerous	6'	7'	3'	3'	4'	2'
ELAN1	1	3'			2'		
SYOL1	too numerous	2'	2'	2.5'	1'	1.5'	2'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Completed by: Jody K Nelson Jody K Nelson Date 8/27/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nobs	Date: 8/27/08 County: Jeff State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF Pond Transect ID: – Plot ID: A

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1 85	1. TYLA1	H	
2 <1	2. JUBA1	H	
3 1	3. SAAM1	T	
4 <1	4. CANE1	H	
5 <1	5. CIAR1	H	
6 <1	6. OEVI1	H	
7 5	7. PAVI1	H	
8 1	8. AGCA1	H	
9 <1	GAPA1	H	

	Dominant Plant Species	Stratum	Indicator
<1 10	9. VETH1	H	
1 11	10. SAEX1	S	
<1 12	11. SCVA1	H	
<1 13	12. ELMA1	H	
<1 14	13. VEBR1	H	
<1 15	14. ASSP1	H	
<1 16	15. DYPA1	H	
<1 17	16. JUTO1	H	
<1 18	EUSE1	H	

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

Remarks: MOJU1 – H – <1 19
SCPU1 H- <1 20

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/27/08
Observer(s) JKW
Location ID PLF Pond - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

8/27/08 yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAAm1	3	3'	3'	7'	3'	1'	5'
SAEx1	14	4'	1.5'	2'	3'	1'	10"

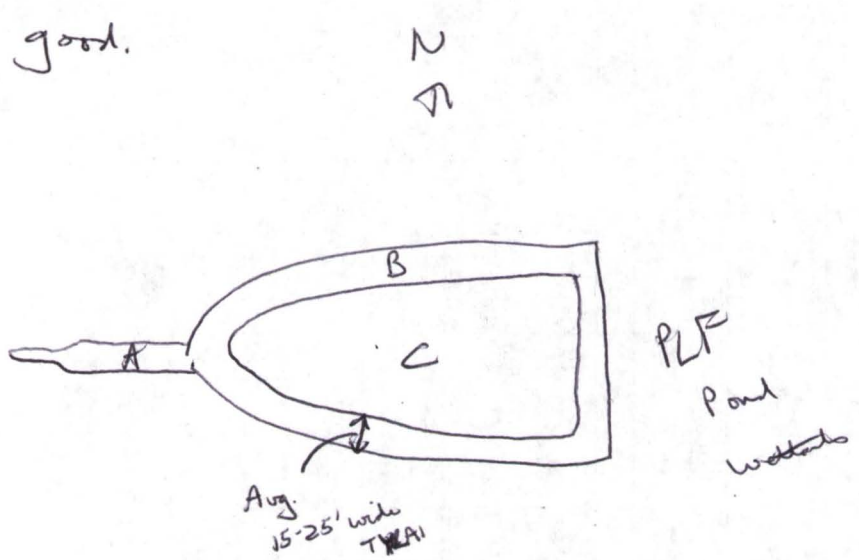
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking good.



Completed by: Joy K Nash Joy K Nash Date 8/27/10

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Haynes	Date: 8/28/08 County: Jefferson State: Co
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF Pond Transect ID: — Plot ID: B

VEGETATION

% Actual Cover

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator	
1. TYLAI	H		65	9. OEVII	H		30
2. SCVAI	H		10	10. JUTOI	H		31
3. MEARI	H		1	11. PONAI	H		32
4. SAEXI	S		15	12. HOJUI	H		33
5. EUSEI	H		3	13. PAVII	H		34
6. POPE2	H		1	14. ELCRI	H		35
7. LYAMI	H		1	15. AGCAI	H		36
8. CIARI	H		1	16. AGSMI	H		37
ELMAI	H		1	ELCAI	H		38

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

Remarks: TYANI-H-3 39, PLLAI-H-1 44, HEANI-H-1 48, ALTRI-H-1 52, JUBAI-H-1 56, PAZAI-H-1 40, POMO-H-2 45, SPPEI-H-1 49, BRJAI-H-1 53, BUDAI-H-1 57, BRINI-H-1 41, PLMAI-H-1 46, BOGRI-H-1 50, VERLI-H-1 54, VEGRI-H-1 58, VETHI-H-1 42, XASTI-H-1 47, SAAM-T-1 51, EUMAI-H-1 55, PONEI-T-1 59, ELANI-T-1 43

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-3' ~~(in)~~ ft 8/28/08
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGT 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/28/08
Observer(s) JKN
Location ID ~~8/29/08~~ 8/28/08 PLF Pond - B

Photographs taken today? (Y) (N) Some earlier

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

ye

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	Too numerous	6'	5'	7'	3'	3'	3'
SAAMI	7	1'	1'	10"	4"	9"	3"
PODEI	1	1'			6"		
ELANI	1	6'			4'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Looking very good - SAEXI filling in around edge.

Completed by: Jodi K Nelson Date 8/28/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: bg Nels	Date: 8/28/08 County: Jeffers State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PLF Pond Transect ID: – Plot ID: C

90 Actual Cover

VEGETATION

60 1
61 1
62 4

Dominant Plant Species	Stratum	Indicator
1. TYLAI	H	
2. SCVAI	H	
3. PONAI	H	
4.		
5.		
6.		
7.		
8.		

Dominant Plant Species	Stratum	Indicator
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

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

Remarks:
OUT in pond

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water: 3'-6' 8/28/08 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
More open water area of pond.

MGH 10/9/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/28/08
Observer(s) JKW
Location ID PLF Pond -C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no - except perhaps water is too deep - middle of pond

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for aquatic weeds - control as needed.

Other comments:

Completed by: Jody K Nels— JKN Date 8/28/08

Wetland Noxious Weed Survey Form

Observer Jake Nelson Date 6/18/08
Location PLF

Noxious Weed Species Present:

CIAR1 - <1%
CEDI1 - <1%
ELAN1 - <1% along shore edges
HYPE1 - <1%
VETH1 - <1%
VEGL1 - <1%

Comments/Notes:

Jake Nelson — Jake Nelson — 6/18/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer Jody Nels- Date 7/15/08
Location P&F Wetland

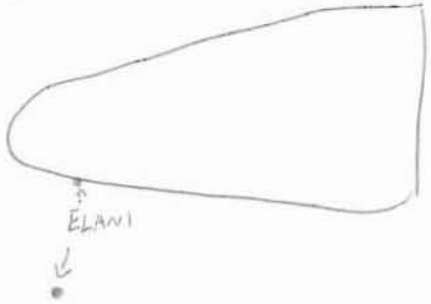
Noxious Weed Species Present:

CIARI - sprayed at most location <1%
HYPE1 - <1%
VETH1 - <1%
SOAR1 - <1%
ELAN1 - <1%
VEBL1 - <1%

Comments/Notes:

SAAM1 - on matting GE. Fen

Wetland around pond looks great.



Jody K Nels- JK NK 7/14/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer JRN Date 8/14/08

Location PLF wetlands

Noxious Weed Species Present:

CIARI - <1%
VETHIP <1%
HYPEI- <1%
XASTI <1%
ELANI <1%

Comments/Notes:

Wetland look good this year.

Jodi K Nash — JKN — 8/14/08

Print Name — Signature — Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SW093 Transect ID: — Plot ID: A

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator	% Actual Cover
1.	TYLAI	H		30
2.	ELMAI	H		22
3.	JUTOI	H		1
4.	ECCRI	H		<1
5.	PODEI	T		8
6.	SCVAI	H		2
7.	LASEI	H		<1
8.	HOLUI	H		<1
9.	POCOI	H		<1
10.	SAEXI	S		1
11.				
12.				
13.				
14.				
15.				
16.				

364
365

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0-4 (in.)
Depth to Free Water in Pit: 0 (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Water Flowing today

MGH 8/26/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID SW093 -A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
PODEI	to numerous to count	1'	1.5	1'	3"	3"	3"
SAEX	9	2'	3'	1'	1.5'	2'	8'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

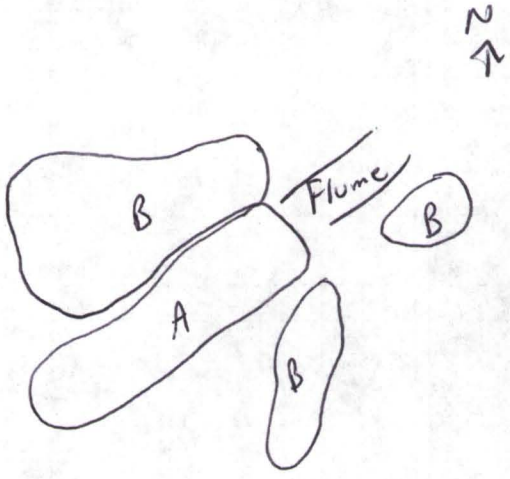
Suggestions for management:

Watch for weeds - control as needed

Seed w/ wetland mix

Other comments:

Looking better - Filling in across both.



Completed by: Jody Knods — JKN Date 8/26/08

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

Project/Site: Rock Flats Applicant/Owner: DOE LM Investigator: Jody Nadas	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SW093 — SAEXI area Transect ID: — Plot ID: B

% Actual Cov

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SAEXI	S		9. AGCAI		
2. CIARI	H		10.		
3. PODEI	T		11.		
4. BRINI	H		12.		
5. AGINI	H		13.		
6. SYOCI	S		14.		
7. AGSMI	H		15.		
8. TYLAI	H		16.		

366 80
367 5
368 5
369 15
370 3
371 8
372 10
373 <1

8/26/08 374
2

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: dry in SAEXI areas - on surface

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID SW093 - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX	too numerous	8'	4'	6'	6'	4'	5'
PODE	1	7'			4'		

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

SAEX doing very well

Completed by: Jody K Nelson Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location SW093 wetland

Noxious Weed Species Present:

None in wetland area

CIARI + CEBI1 above wetland on hillside + in grout.

Comments/Notes:

Jody K Nelson — Print Name
JKN — Signature
6/11/08 — Date

Wetland Noxious Weed Survey Form

Observer Josh Nels- Date 7/14/08

Location SW093 Wetland

Noxious Weed Species Present:

CEDI1 - <1%

SOAR1 - <1%

Comments/Notes:

Josh Nels- | [signature] | 7/14/08

Print Name | Signature | Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location SW093 Wetland

Noxious Weed Species Present:

SOARI - <10%

Comments/Notes:

Area filling in nicely among grouted rip rap.

JKN JKN 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/19/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SP Wetland Transect ID: — Plot ID: —

90 Actual cover

VEGETATION

Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator		
1. SPPE1	H		1266 5	9. AGSM1	H		15	1275
2. HOJU1	H		1267 40	10. SCPA1	H		<1	1276
3. HEAN1	H		1268 2	11. AGSC1	H		<1	1277
4. CACA1	H		1269 1	12. KOSC1	H		2	1278
5. JUBA1	H		1270 20	13. BRIN1	H		<1	1279
6. ELCA1	H		1271 <1	14.				
7. SCVA1	H		1272 <1	15.				
8. TRMA1	H		1273 <1	16.				
CIAR1	H		1274 <1					

Colonizing Triglochin

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Saturated on upper end (S side) of wetland - dries out going North.

MGH 10/12/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/19/08
Observer(s) JKN
Location ID SP Well Wetland

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Yes - even w/ drought the JUBA1, SPPE1, + HAJU1 have done well.

Woody Plant Counts

Species	Stem Count	Height			Width		
		1	2	3	1	2	3
none here							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds + control as needed. Much of area was sprayed ~ 2007(?)

Other comments:

Considering the drought this year it still looks pretty good. Needs to fill in more.

Completed by: [signature] [signature] Date 8/19/08

Wetland Noxious Weed Survey Form

Observer Jody Nelson Date 6/11/08
Location SP Wells Wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

Area Filling in very well in places.

Jody K Nelson — Print Name
Signature
6/11/08 — Date

Wetland Noxious Weed Survey Form

Observer Jody Nolan Date 7/14/08
Location SP with wetland

Noxious Weed Species Present:
None - sprayed.
Comments/Notes:

Jody K Nolan — Jody Nolan — 7/14/08
Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer JKN Date 8/13/08

Location SP well Wetland

Noxious Weed Species Present:

CIARI - <1%

Comments/Notes:

Very dry this year.

Judy K Nods — JKN 8/13/08

Print Name Signature Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jay Nelson	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SPD6 Transect ID: — Plot ID: A

% Actual Cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator					
331	1. TYLAI	H		340	9. HONU	H		15
332	2. CLARI	H		341	10. AMARI	H		<1
333	3. RUCRI	H		342	11. ROSCI	H		<1
334	4. THARI	H		343	12. SCVAI	H		<1
335	5. LECAI	H			13.			
336	6. ~~PHAVU~~ NECAI	H			14.			
337	7. SAEXI	S			15.			
338	8. POMOI	H			16.			
339	VEBRI							

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

Remarks:

HYDROLOGY

- X Recorded Data (Describe in Remarks):
  - ___ Stream, Lake, or Tide Gauge
  - ___ Aerial Photographs
  - ___ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0-3 (in.)
Depth to Free Water in Pit:	0 (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: S-106 Automated water collection meter + Flume

MBH 10/10/08

2

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	(Circle)
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID SPDG - A

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

no

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - dry year this year so less water throughout area.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	1	3.5'			3'		

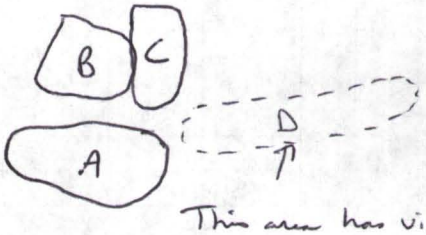
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area somewhat dry this year



This area has virtually no wetland veg anymore
All BRINI, NECAI, + SYOCI now.
Most of planted SAEXI are dead!

Completed by: Jody K Nelson Jody K Nelson Date

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nds -	Date: 8/26/08 County: Jefferson State: CO
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SPOG — N ditch area Transect ID: — Plot ID: B

90% Actual cover

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
344 85	1. HOJU1	H		9.			
345 4	2. SAEX1	S		10.			
346 1	3. LECA1	H		11.			
347 1	4. POMO1	H		12.			
348 1	5. CYOF1	H		13.			
349 1	6. CIAR1	H		14.			
350 21	7. BRIN1	H		15.			
	8.			16.			

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

Remarks: Area has dried up since water routed east.

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water:	0 (in.)
Depth to Free Water in Pit:	NA (in.)
Depth to Saturated Soil:	0 (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated in Upper 12 Inches — S.R. 9/08
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

MGH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKW
Location ID SPDG - N dita - B

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - too dry now

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Barely - water from SPDG goes east now so area has dried up.

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEXI	2	4'	4'		3'	3'	

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area has dried up.

Completed by: Jody K Nelson JKN Date 8/29/08

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

Project/Site: Rocky Flats Applicant/Owner: DOE LM Investigator: Jody Nelson	Date: 8/26/08 County: Jefferson State: Co
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: SPDG – SAEXI patch Transect ID: — Plot ID: C

% Actual Cover

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SAEXI	S		9.		
2. CIAR1	H		10.		
3. NECA1	H		11.		
4. LECA1	H		12.		
5. SYOC1	S		13.		
6.			14.		
7.			15.		
8.			16.		

351 75
352 60
353 30
354 5
355 5

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: NA (in.)
Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: dry

MSH 10/10/08

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

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:

not done

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

Wetland Qualitative Revegetation Evaluation Form Form #_____

Date 8/26/08
Observer(s) JKN
Location ID SPDG – SAEX1 patch – C

Photographs taken today? (Y) N

Are desired wetland plant species present? (Y) N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes – too dry

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

Bordy – needs more water

Woody Plant Counts

		Height			Width		
Species	**Stem Count**	**1**	**2**	**3**	**1**	**2**	**3**
SAEX1	~~too numerous~~ to count	6'	6.	5'	4'	5'	3'
SYOC1		2'	2'	2'	1'	1'	1'

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Watch for weeds - control as needed.

Other comments:

Area has dried up - only hydric species is SAEXI.

Completed by: Jody K Nelson Jody K Nelson Date 8/26/08

Wetland Noxious Weed Survey Form

Observer Jody Nels— Date 6/11/08
Location SP Discharge Gallery

Noxious Weed Species Present:

HEMA1 – 2% mowed & pulled this yr
CIAR1 – 3%
CYOF11 – <1%

Comments/Notes:

Jody K Nels— 6/11/08
Print Name Signature Date

Wetland Noxious Weed Survey Form

Observer Jody Reds — Date 7/14/08

Location SP Discing Gully

Noxious Weed Species Present:

CIARI – 2%

CYOFI – <1%

HEMAI – <1%

Comments/Notes:

Very dry this year.

Jody Reds — 7/14/08

Print Name — Signature — Date

Wetland Noxious Weed Survey Form

Observer ~KW Date 8/13/08

Location SP Discharge Gallery Wetland

Noxious Weed Species Present:

CIAR1 – 2%

Comments/Notes:

SAEX1 dying along tire ruts – ponding water.

Not sure why not surviving – too high gw?

Jody K Mols – JKM 8/13/08

Print Name Signature Date