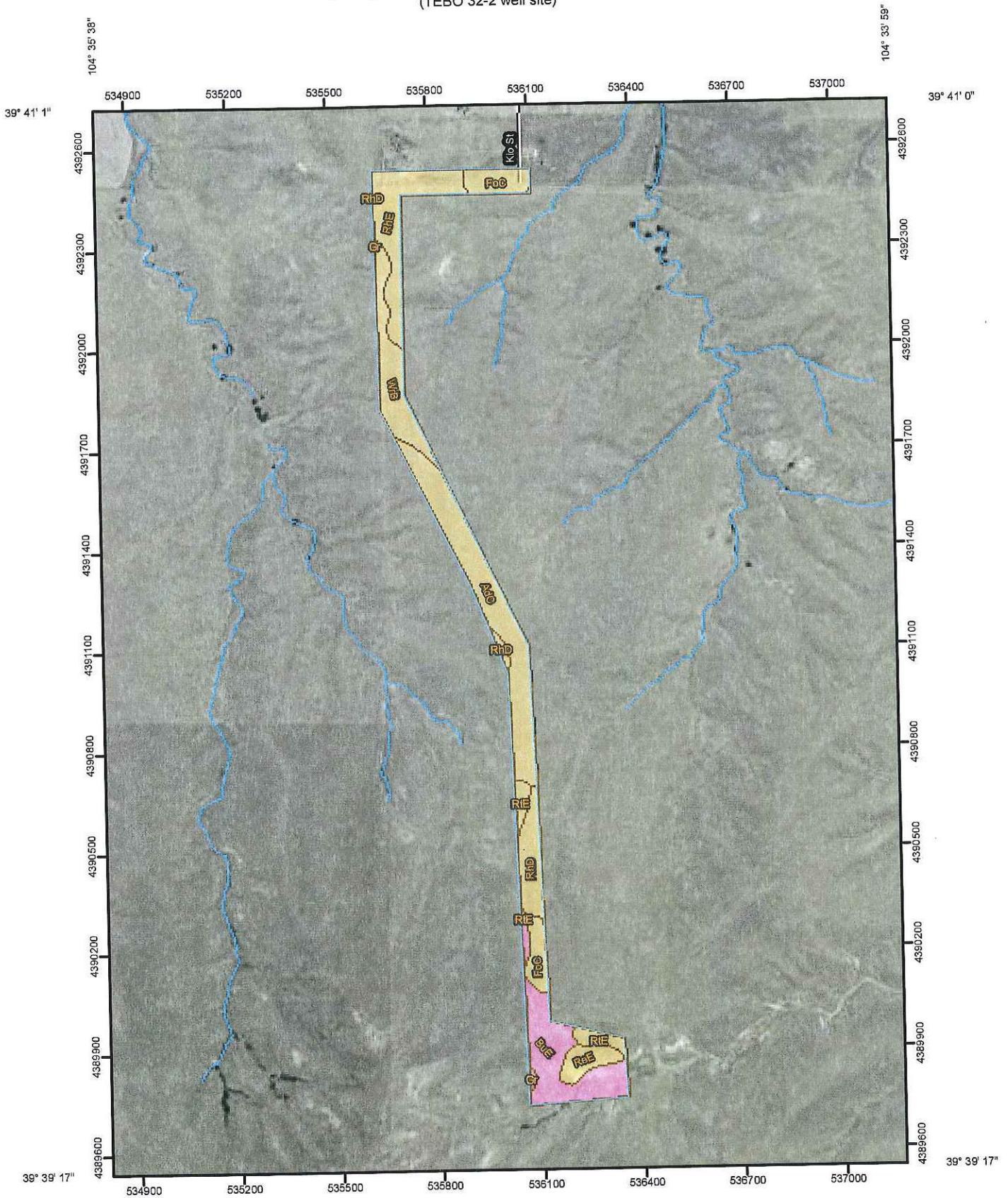
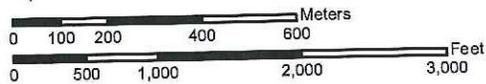


Hydrologic Soil Group—Arapahoe County, Colorado
(TEBO 32-2 well site)



Map Scale: 1:15,200 if printed on A size (8.5" x 11") sheet.



MAP INFORMATION

Map Scale: 1:15,200 if printed on A size (8.5" x 11") sheet.
The soil surveys that comprise your AOI were mapped at 1:20,000.
Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Arapahoe County, Colorado
Survey Area Data: Version 8, May 1, 2009

Date(s) aerial images were photographed: 7/29/2005; 6/22/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)
Soils		Soil Map Units
Soil Ratings		A
		A/D
		B
		B/D
		C
		C/D
		D
		Not rated or not available
Political Features		Cities
Water Features		Streams and Canals
Transportation		Rails
		Interstate Highways
		US Routes
		Major Roads
		Local Roads

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Arapahoe County, Colorado (CO005)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AdC	Adena-Colby silt loams, 1 to 5 percent slopes	C	19.2	26.7%
BuE	Bresser-Stapleton sandy loams, 9 to 20 percent slopes	D	13.0	18.1%
FoC	Fondis-Colby silt loams, 3 to 5 percent slopes	C	6.4	9.0%
Gr	Gravelly land	A	0.3	0.4%
ReE	Renohill loam,reddish variant, 5 to 20 percent slopes	C	3.2	4.5%
RhD	Renohill-Buick loams, 3 to 9 percent slopes	C	6.2	8.6%
RhE	Renohill-Buick loams, 9 to 20 percent slopes	C	11.3	15.7%
RtE	Renohill-Little-Thedalund complex, 9 to 30 percent slopes	C	3.3	4.5%
WrB	Weld-Deertrail silt loams, 0 to 3 percent slopes	C	8.9	12.5%
Totals for Area of Interest			71.8	100.0%

Per Pat 10-26-11

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

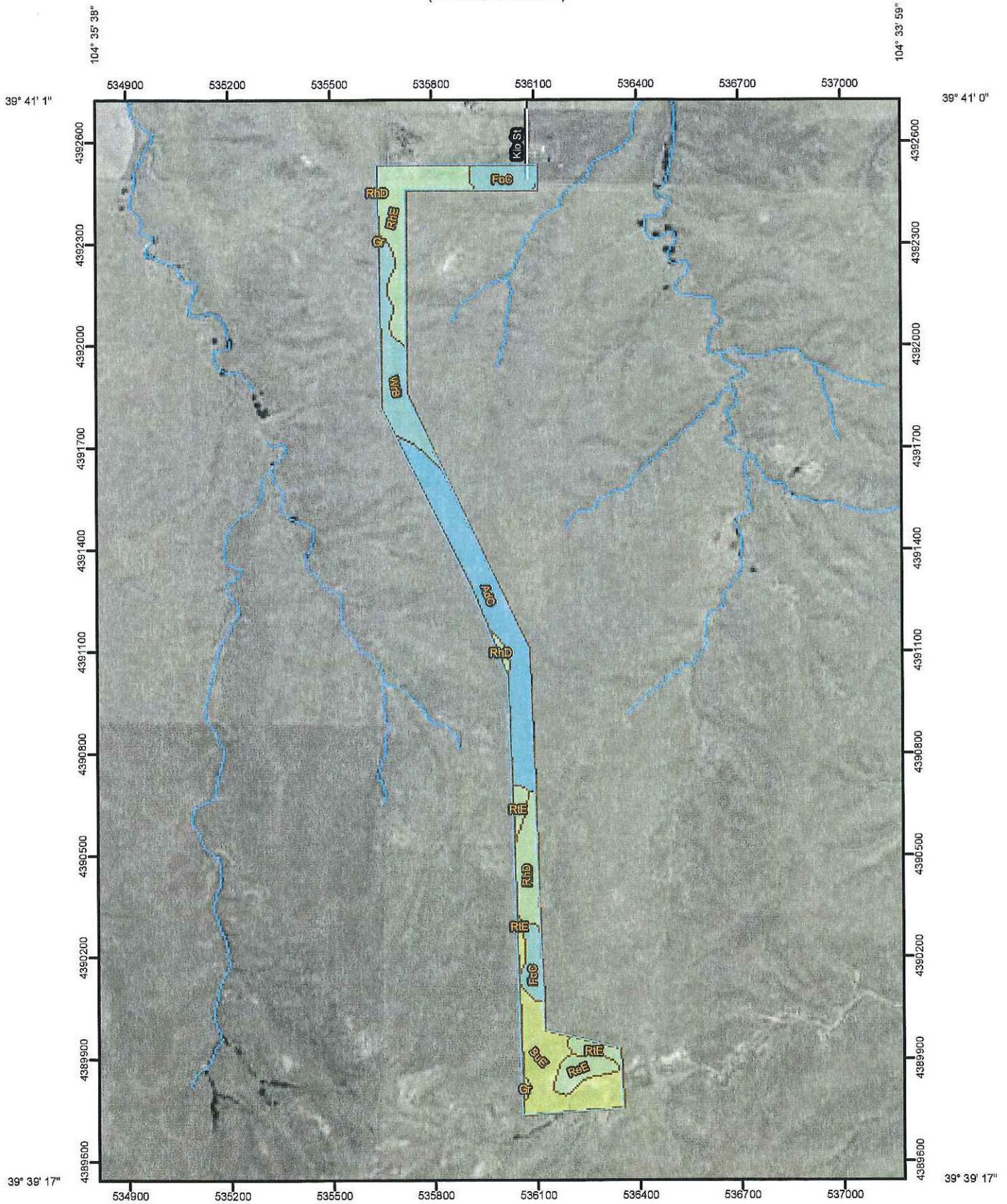
Rating Options

Aggregation Method: Dominant Condition

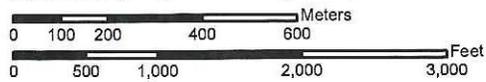
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

K Factor, Rock Free—Arapahoe County, Colorado
(TEBO 32-2 well site)



Map Scale: 1:15,200 if printed on A size (8.5" x 11") sheet.



MAP INFORMATION

Map Scale: 1:15,200 if printed on A size (8.5" x 11") sheet.
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 Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 13N NAD83
 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
 Soil Survey Area: Arapahoe County, Colorado
 Survey Area Data: Version 8, May 1, 2009
 Date(s) aerial images were photographed: 7/29/2005; 6/22/2005
 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

Area of Interest (AOI)	Interstate Highways
 Area of Interest (AOI)	 Interstate Highways
Soils	US Routes
 Soil Map Units	 US Routes
Soil Ratings	Major Roads
 .02	 Major Roads
 .05	 Local Roads
 .10	
 .15	
 .17	
 .20	
 .24	
 .28	
 .32	
 .37	
 .43	
 .49	
 .55	
 .64	
 Not rated or not available	
Political Features	
 Cities	
Water Features	
 Streams and Canals	
Transportation	
 Rails	

K Factor, Rock Free

K Factor, Rock Free— Summary by Map Unit — Arapahoe County, Colorado (CO005)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AdC	Adena-Colby silt loams, 1 to 5 percent slopes	.37	19.2	26.7%
BuE	Bresser-Stapleton sandy loams, 9 to 20 percent slopes	.24	13.0	18.1%
FoC	Fondis-Colby silt loams, 3 to 5 percent slopes	.32	6.4	9.0%
Gr	Gravelly land	.28	0.3	0.4%
ReE	Renohill loam,reddish variant, 5 to 20 percent slopes	.28	3.2	4.5%
RhD	Renohill-Buick loams, 3 to 9 percent slopes	.28	6.2	8.6%
RhE	Renohill-Buick loams, 9 to 20 percent slopes	.28	11.3	15.7%
RtE	Renohill-Little-Thedalund complex, 9 to 30 percent slopes	.28	3.3	4.5%
WrB	Weld-Deertrail silt loams, 0 to 3 percent slopes	.32	8.9	12.5%
Totals for Area of Interest			71.8	100.0%

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kf (rock free)" indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options: Surface Layer