

## Platte River Basin Plan End of Chapter Exhibits

**Exhibit 11-1. in text**

**Exhibit 11-2. in text**

Exhibit 11-3. Platte River Basin and Major Tributaries

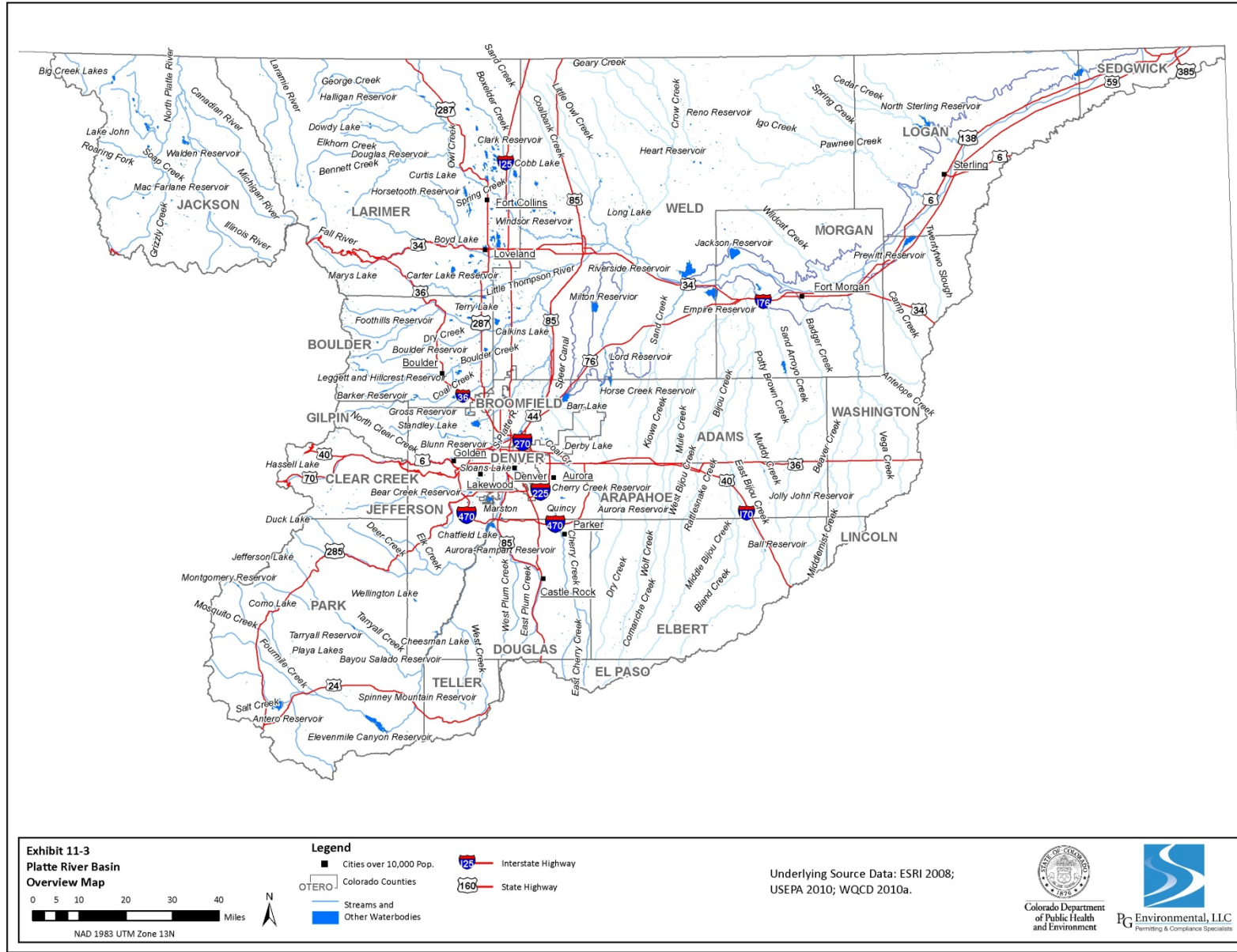


Exhibit 11-4. Platte River Basin Level III Ecoregions

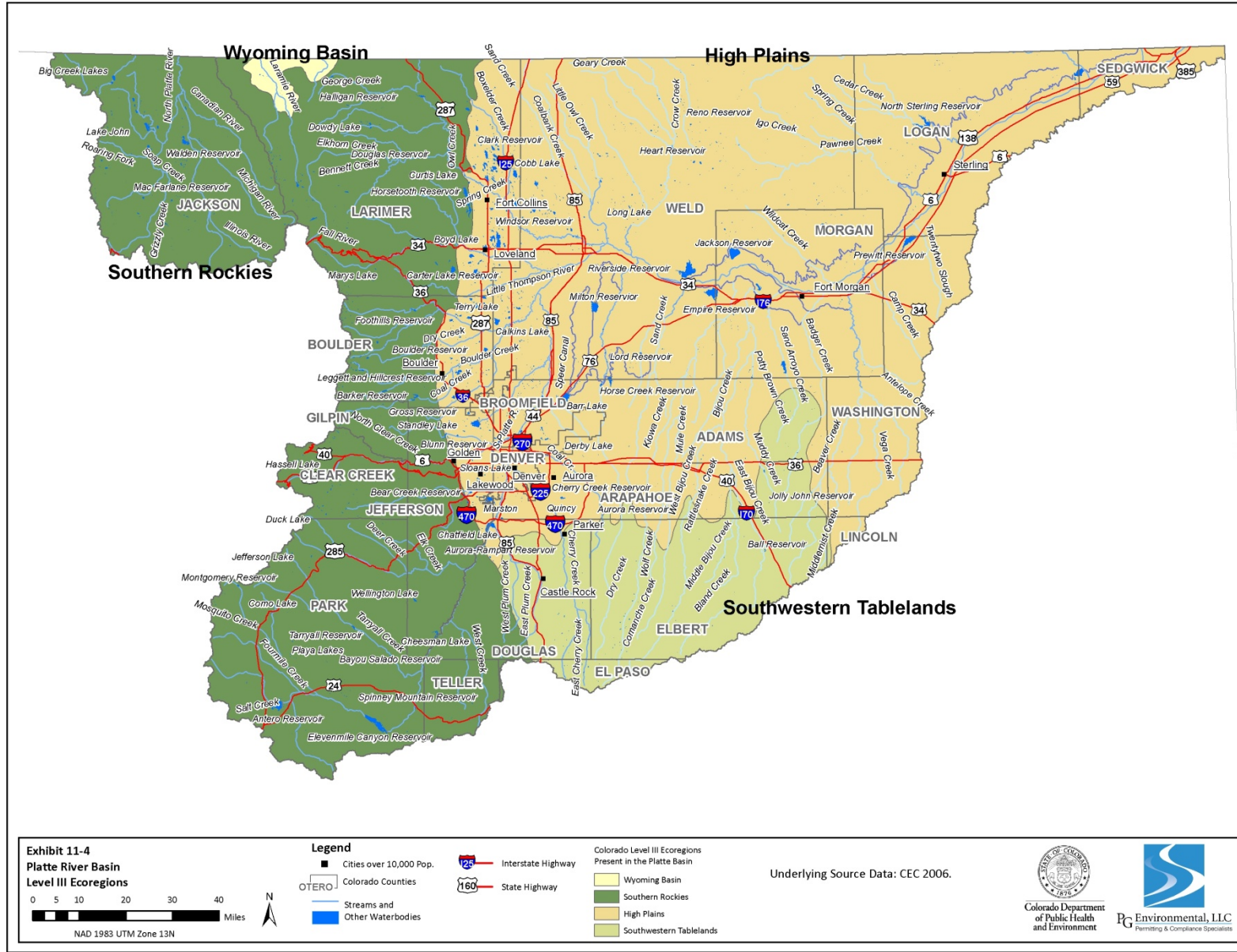




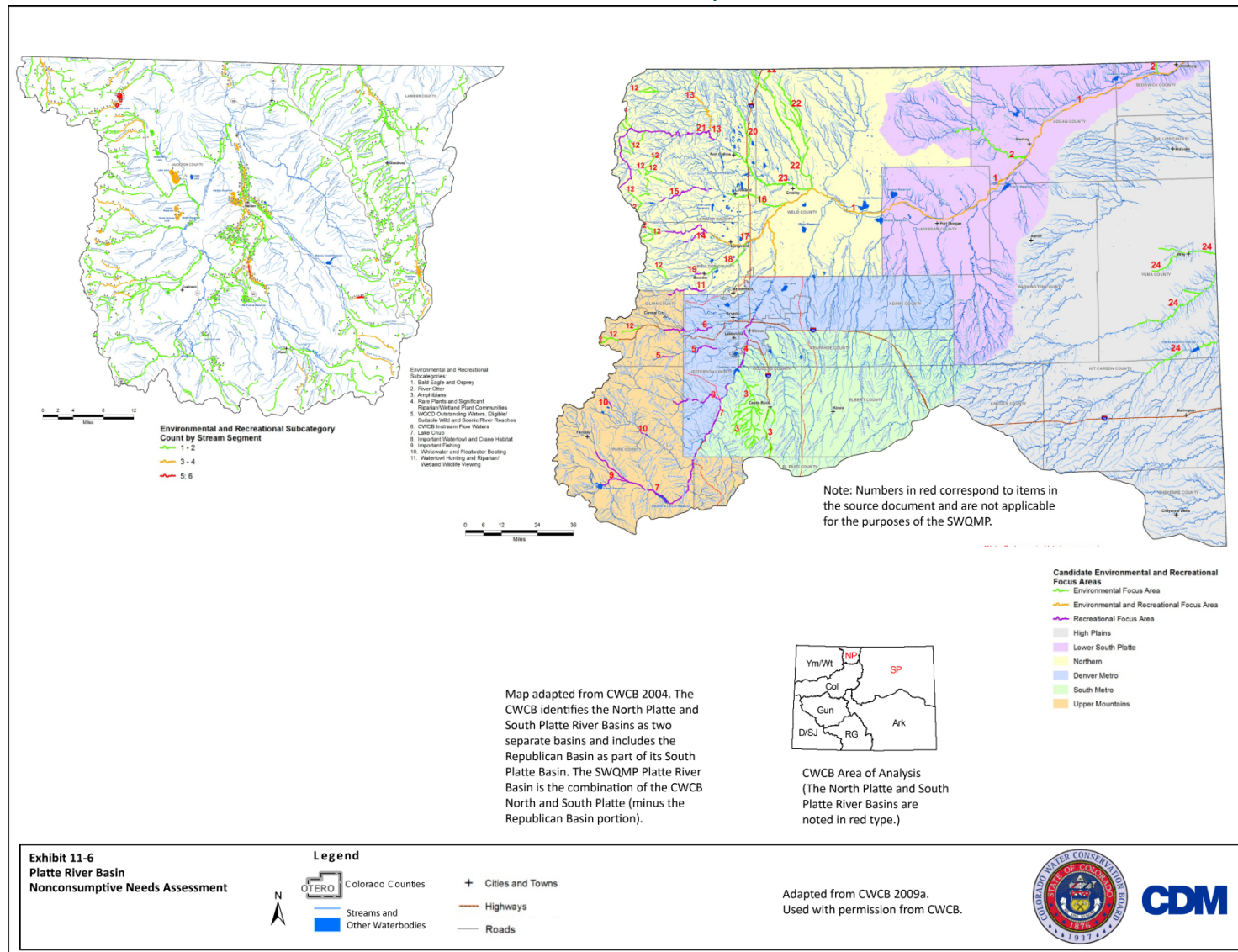
Exhibit 11-5. Platte River Basin Endangered and Threatened Species

Species		Status	
		Federal	State
<b>Endangered Species</b>		<b>Federal</b>	<b>State</b>
Fish	Lake Chub ( <i>Couesius plumbeus</i> )		√
	Northern Redbelly Dace ( <i>Phoxinus eos</i> )		√
	Plains Minnow ( <i>Hybognathus placitus</i> )		√
	Suckermouth Minnow ( <i>Phenacobius mirabilis</i> )		√
Birds	Whooping Crane ( <i>Grus Americana</i> )	√	√
	Least Tern ( <i>Sterna antillarum</i> )	√	√
	Southwestern Willow Flycatcher ( <i>Empidonax traillii extimus</i> )	√	√
	Plains Sharp-tailed Grouse ( <i>Tympanuchus phasianellus jamesii</i> )		√
Mammals	Lynx ( <i>Lynx canadensis</i> )	<i>On federal threatened list</i>	√
	Wolverine ( <i>Gulo gulo</i> )		√
	Black-footed Ferret ( <i>Mustela nigripes</i> )	√	√
Plants	North Park Phacelia ( <i>Phacelia formosula</i> )	√	
<i>Total Endangered Species</i>		5	11
<b>Threatened Species</b>		<b>Federal</b>	<b>State</b>
Fish	Greenback Cutthroat Trout ( <i>Oncorhynchus clarkia stomias</i> )	√	√
	Common Shiner ( <i>Luxilus cornutus</i> )		√
	Brassy Minnow ( <i>Hybognathus hankinsoni</i> )		√
Birds	Piping Plover ( <i>Charadrius melodus circumcinctus</i> )	√	√
	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	√	√
	Mexican Spotted Owl ( <i>Strix occidentalis lucida</i> )	√	√
	Burrowing Owl ( <i>Athene cunicularia</i> )		√
	Lesser Prairie-chicken ( <i>Tympanuchus pallidicinctus</i> )		√
Mammals	Preble's Meadow Jumping Mouse ( <i>Zapus hudsonius preblei</i> )	√	√
	Lynx ( <i>Lynx canadensis</i> )	√	<i>On state endangered list</i>
	River Otter ( <i>Lontra canadensis</i> )		√
Plants	Penland Alpine Fen Mustard ( <i>Eutrema penlandii</i> )	√	
	Colorado Butterfly Plant ( <i>Gaura neomexicana var. coloradensis</i> )	√	
	Ute Landies'-tresses ( <i>Spiranthesis diluvialis</i> )	√	
<i>Total Threatened Species</i>		9	10
<b>State Species of Special Concern (not a statutory category)</b>		<b>Federal</b>	<b>State</b>
Fish	Iowa Darter ( <i>Etheostoma exile</i> )		√
	Stonecat ( <i>Norturus flavus</i> )		√

Species		Status	
		Federal	State
Amph.	Wood Frog ( <i>Rana sylvatica</i> )		√
	Northern Cricket Frog ( <i>Acris crepitans</i> )		√
	Northern Leopard Frog ( <i>Rana pipiens</i> )		√
Reptiles	Midget Faded Rattlesnake ( <i>Crotalus viridis concolor</i> )		√
	Common Garter Snake ( <i>Thamnophis sirtalis</i> )		√
Gastropod	Rocky Mountain Capshell ( <i>Acroloxus coloradensis</i> )		√
Bivalve	Cylindrical Papershell ( <i>Anodontoidea ferussacianus</i> )		√
Birds	Greater Sandhill Crane ( <i>Crus Canadensis tabida</i> )		√
	American Peregrine Falcon ( <i>Falco peregrinus anatum</i> )		√
	Mountain Plover ( <i>Charadrius montanus</i> )		√
	Western Yellow-billed Cuckoo ( <i>Coccyzus americanus</i> )		√
	Ferruginous Hawk ( <i>Buteo regalis</i> )		√
	Greater Sage Grouse ( <i>Centrocercus urophasianus</i> )		√
	Western Snowy Plover ( <i>Charadrius alexandrinus</i> )		√
	Long-billed Curlew ( <i>Numenius americanus</i> )		√
Mammals	Black-tailed Prairie Dog ( <i>Cynomys ludovicianus</i> )		√
	Townsend's Big-eared Bat ( <i>Corynorhinus townsendii pallescens</i> )		√
	Northern Pocket Gopher ( <i>Thomomys talpoides macrotis</i> )		√
	Swift Fox ( <i>Vulpes velox</i> )		√
<i>Total State Species of Special Concern</i>		NA	21

Sources: CDOW 2010; CWCB 2004.

Exhibit 11-6. Platte River Basin Nonconsumptive Needs Assessment<sup>1</sup>



<sup>1</sup> The nonconsumptive needs assessment map focuses on environmental and recreational areas for the following purposes: (1) to serve as a guide for water supply planning to avoid future conflicts over environmental and recreational needs; (2) to assist in identifying environmental and recreational water needs status; (3) to help basins plan for the water needs of species of special concern; and (4) to provide opportunity for collaborative efforts for future multi-objective projects. There is a separate map for the CWCB North Platte and another for the CWCB South Platte. The two maps are integrated into this exhibit. The CWCB North Platte map was developed using stream and individual lake segments. The subcategories of environmental and recreational uses associated with the North Platte are shown in the North Platte section of the exhibit. The CWCB South Platte map was developed by splitting the basin into different geographic focus areas. The focus areas are color coded on the South Platte section of the exhibit. Additional information on the environmental and recreational areas included in both the CWCB North Platte and CWCB South Platte maps can be found in appendix D of CWCB 2009a.

Exhibit 11-7. Platte River Basin Precipitation

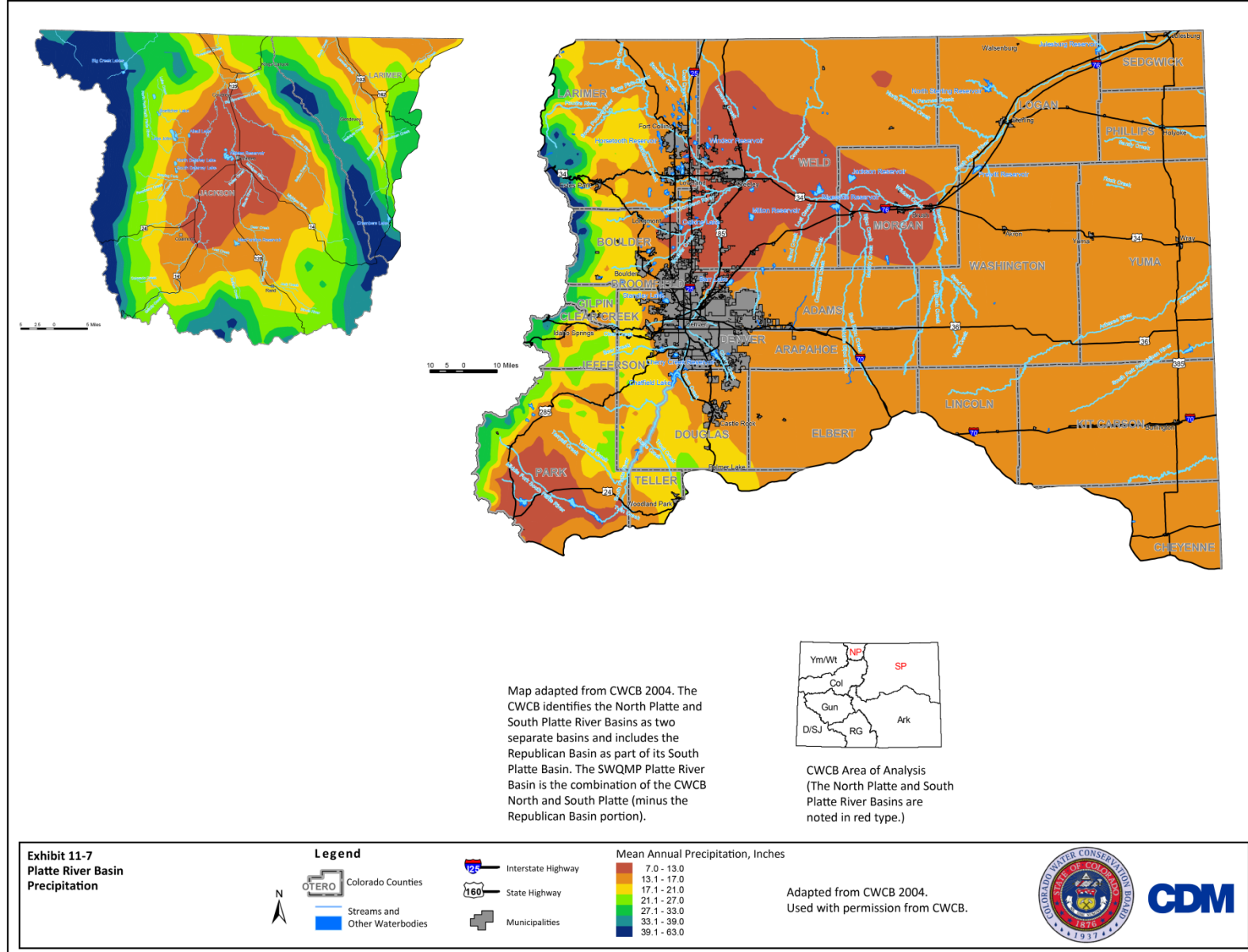




Exhibit 11-8. Platte River Basin Land Ownership

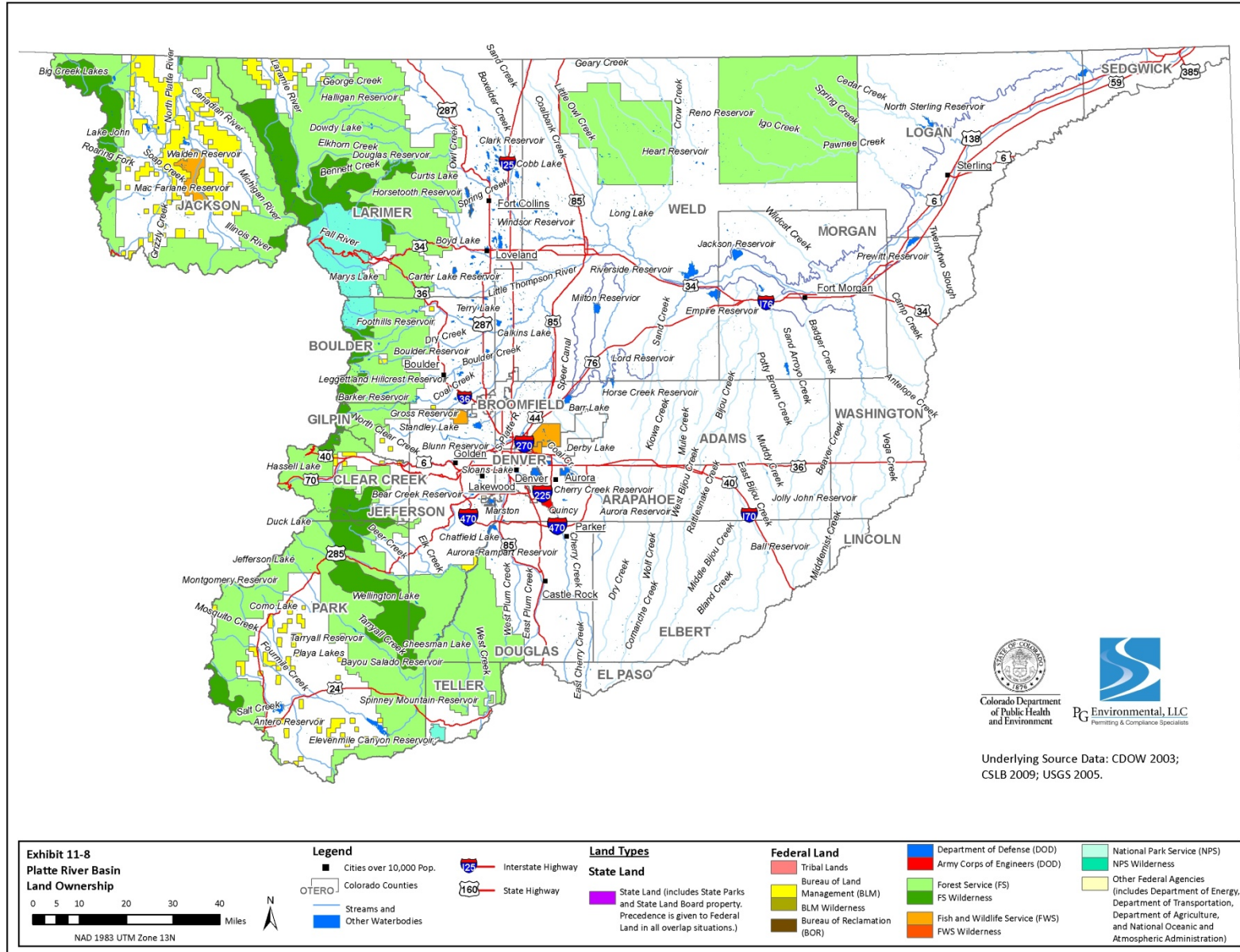
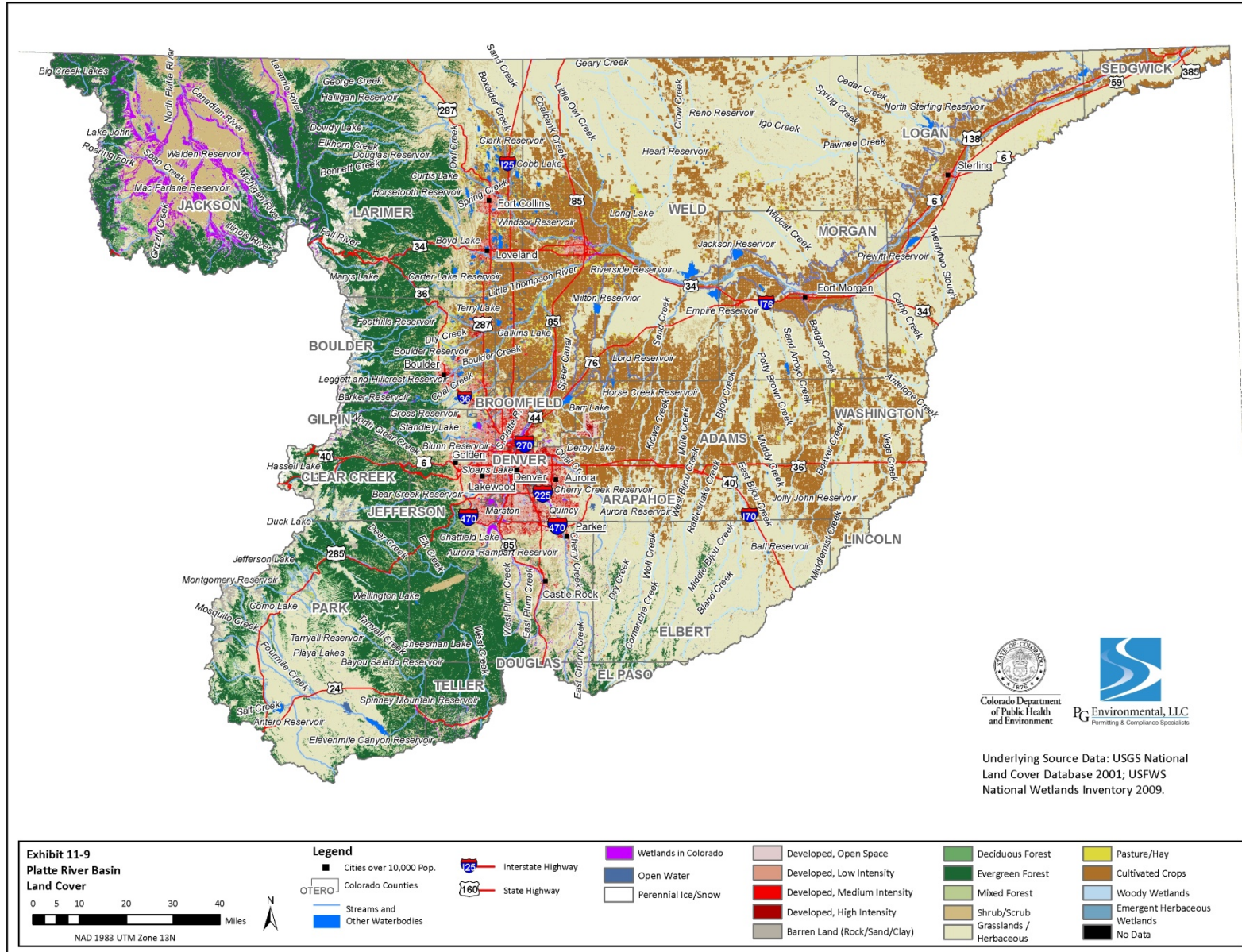


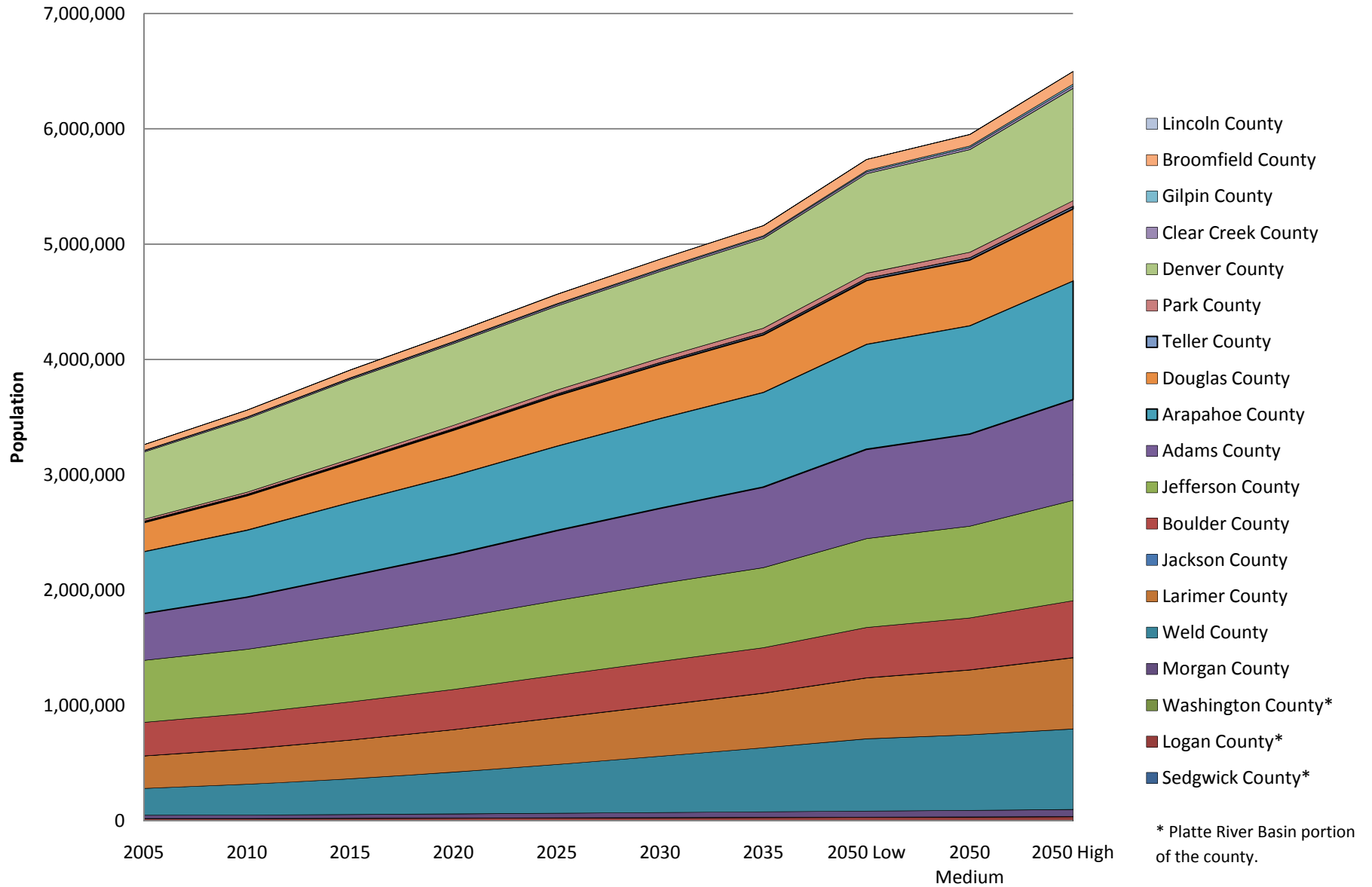


Exhibit 11-9. Platte River Basin Land Cover



**Exhibit 11-10 in text.**

Exhibit 11-11. Platte River Basin Population Projections



\* Platte River Basin portion of the county.

Source: CWCB 2010, DOLA 2010.

**Exhibit 11-12. in text**

**Exhibit 11-13. in text**

**Exhibit 11-14. in text**

Exhibit 11-15. Platte River Basin Key Diversions and Streamflow Gauges

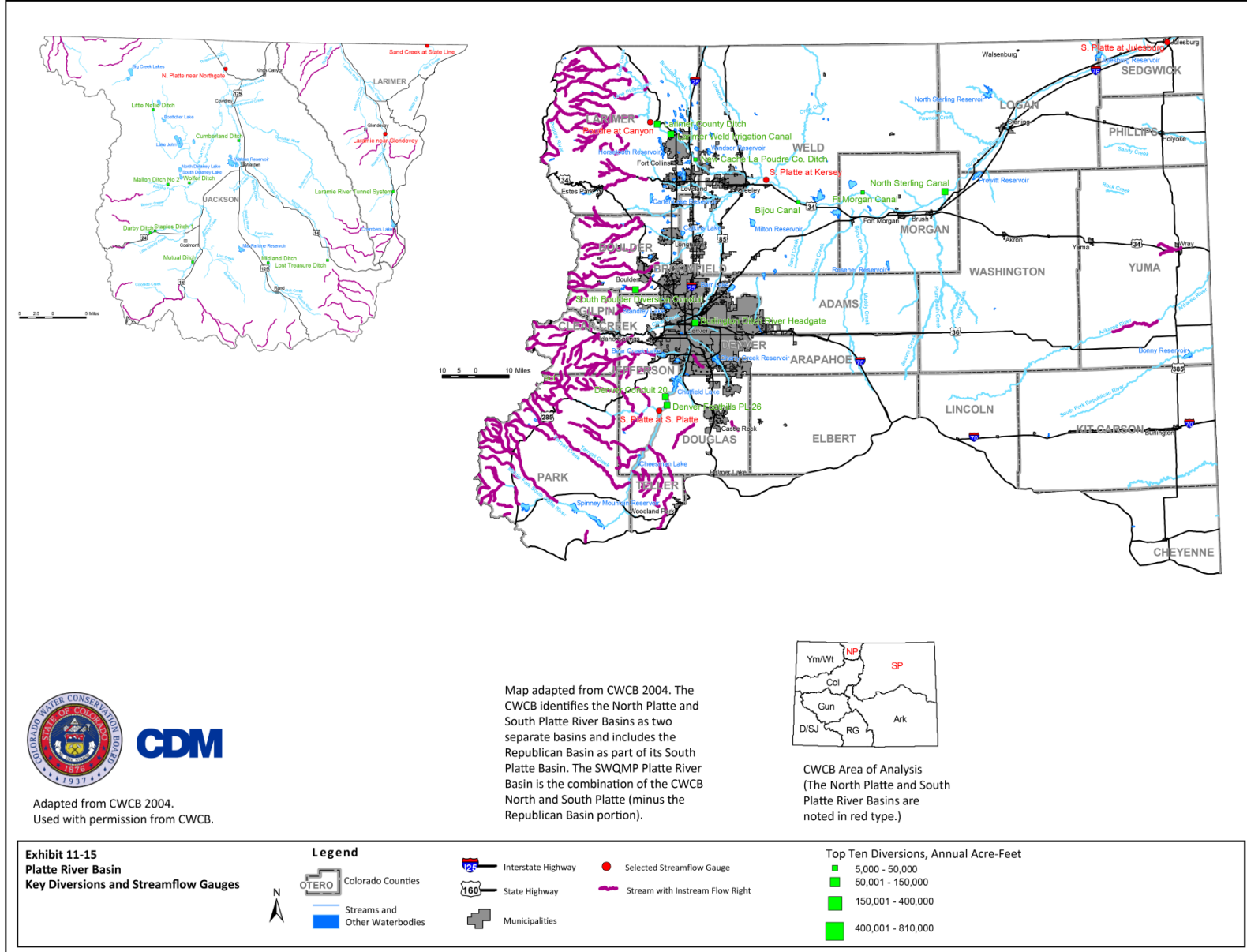




Exhibit 11-16. Platte River Basin Wells and Aquifers

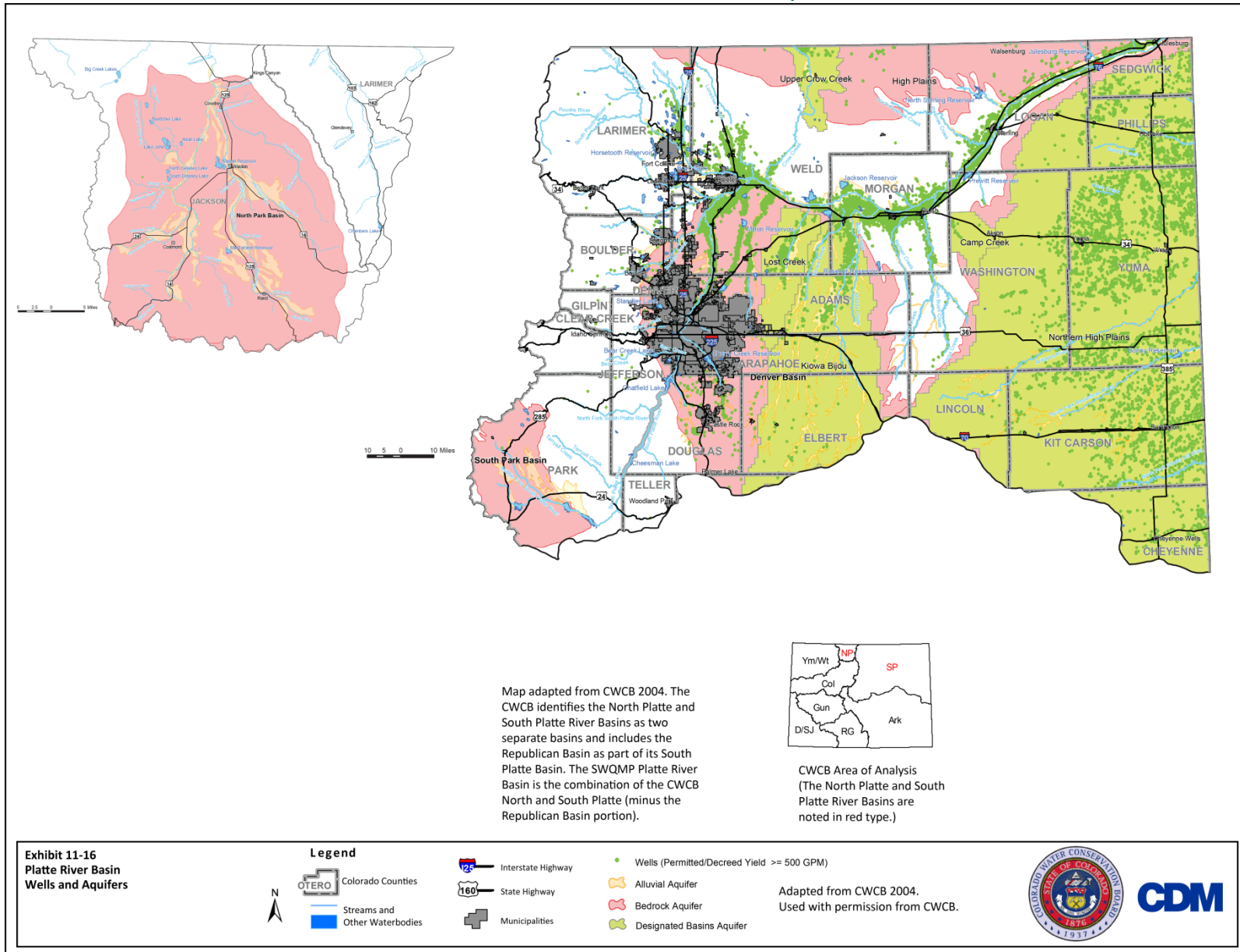


Exhibit 11-17. North Platte River Sub-Basin Classified Waterbody Segments

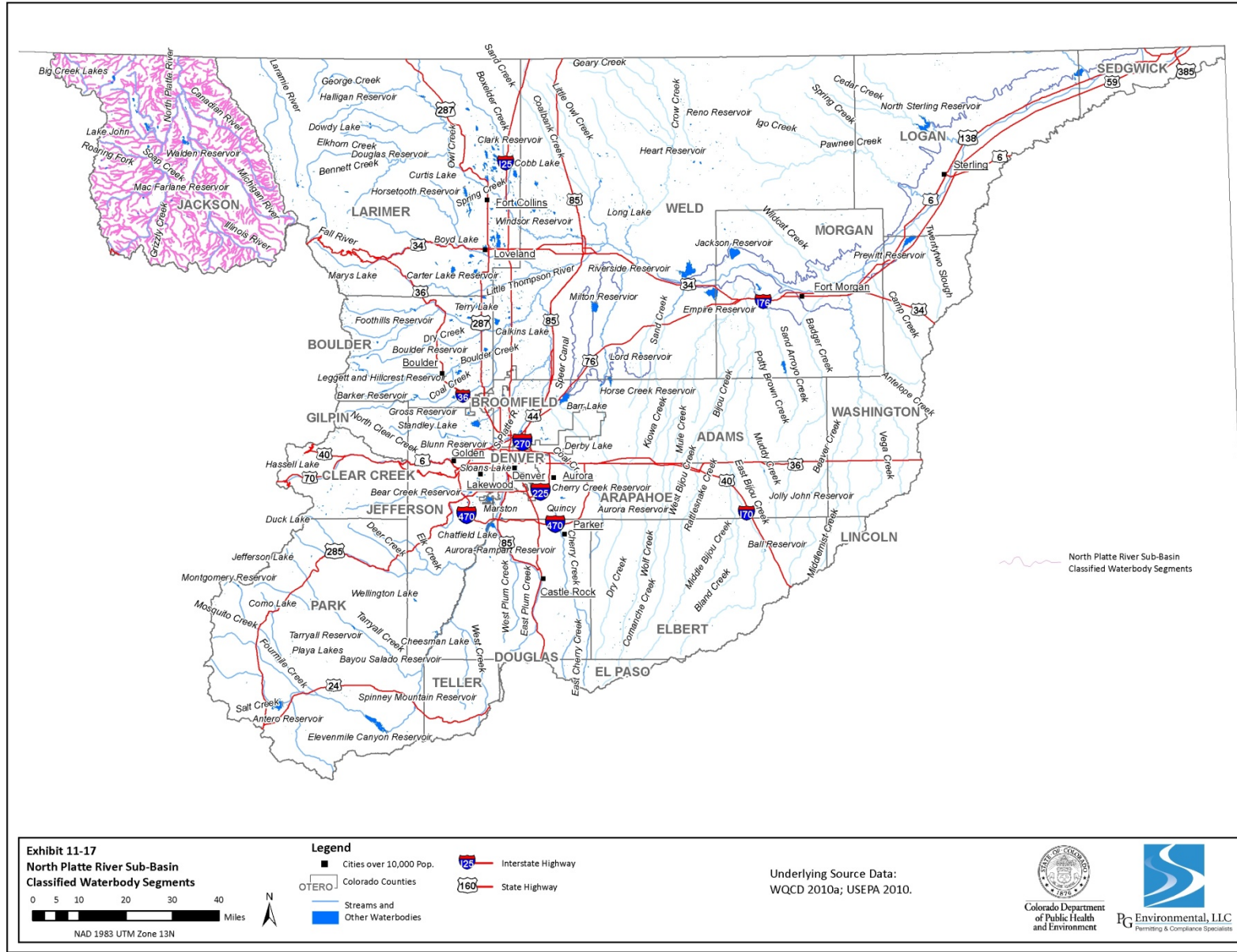


Exhibit 11-18. Upper South Platte River Sub-Basin Classified Waterbody Segments

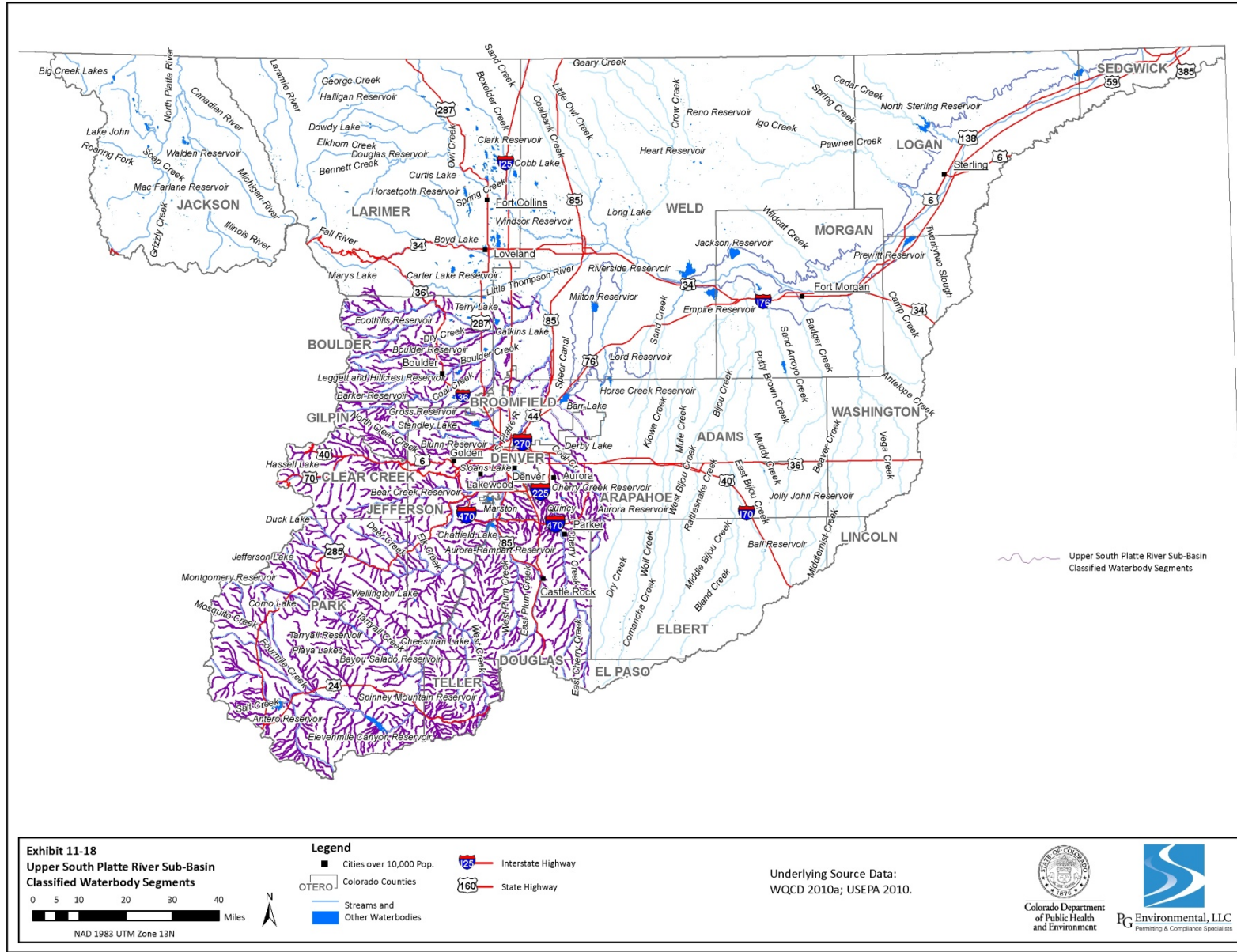




Exhibit 11-19. Middle South Platte River Sub-Basin Classified Waterbody Segments

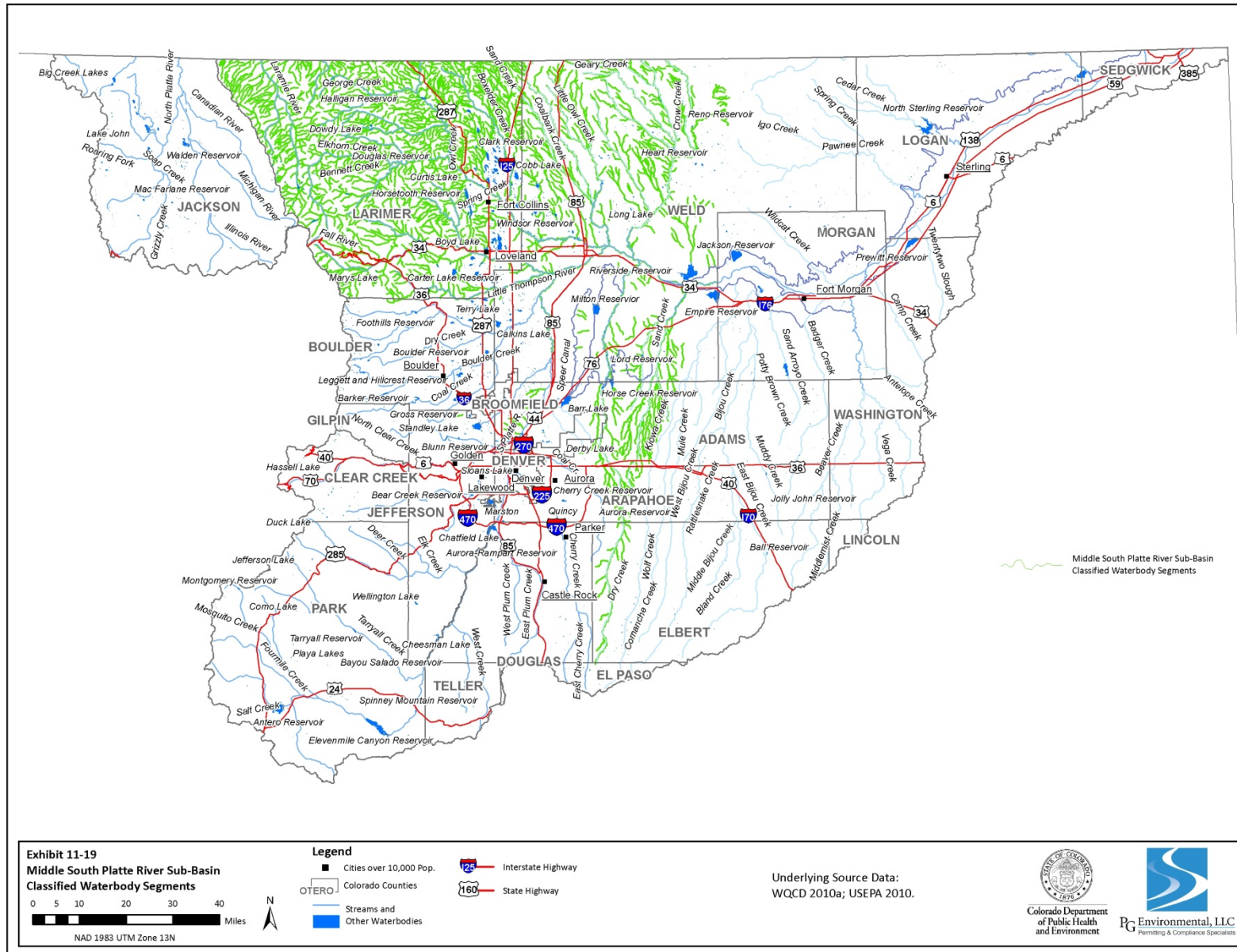


Exhibit 11-20. Lower South Platte River Sub-Basin Classified Waterbody Segments

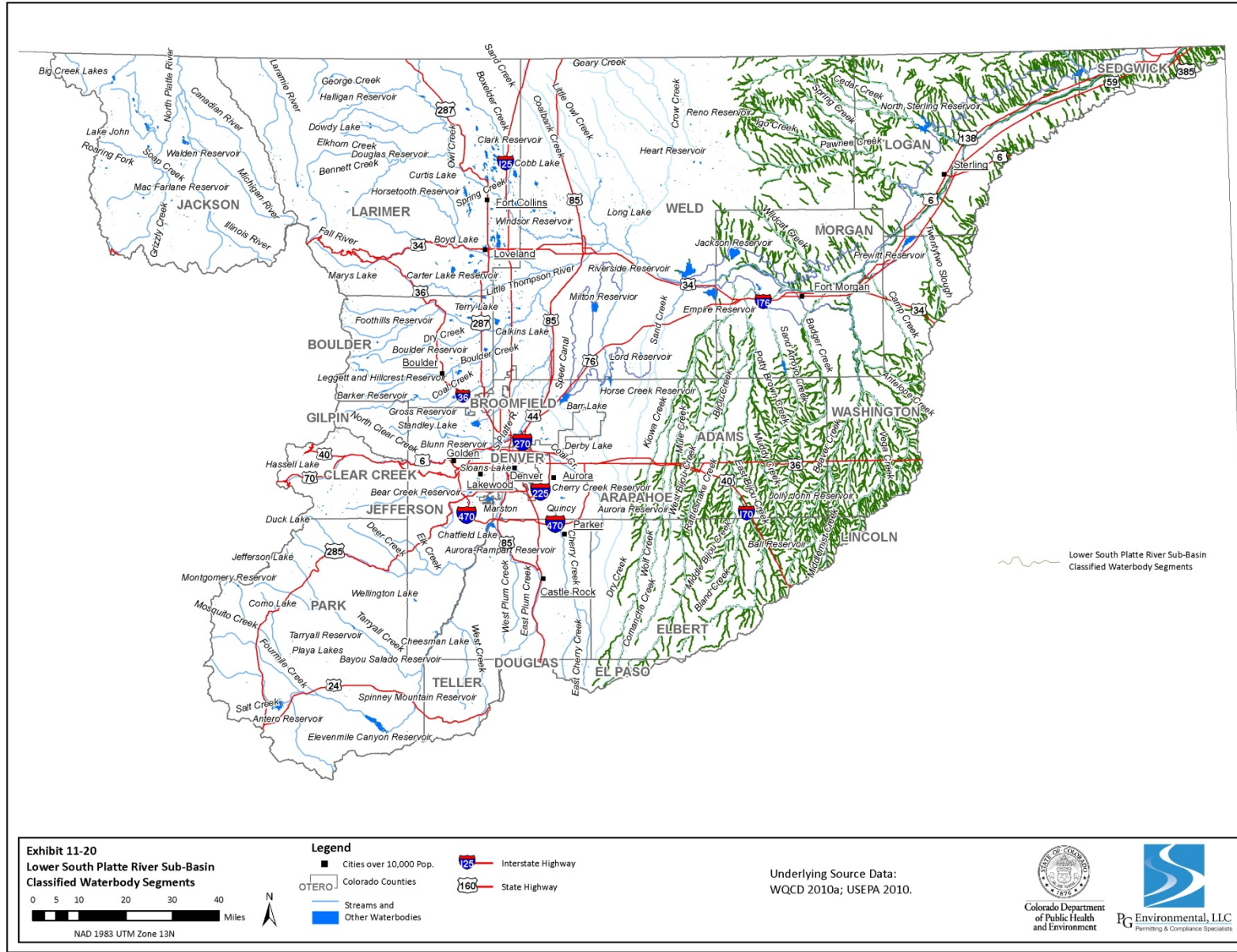




Exhibit 11-21. Platte River Basin Use Classifications for Waterbody Segments

Sub-Basin	Aquatic Life				Recreation				Water Supply	Agriculture	Designations	
	Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			Outstanding Waters	Use Protected
<b>North Platte River</b>												
Segments (n=12)	10	2	0	0	7	1	4	0	9	12	2	0
Miles (n=2,037.20)	2,019.30	17.90	0	0	1,885.20	50.20	101.80	0	2,005.40	2,037.20	101.50	0
<b>Upper South Platte River</b>												
Segments (n= 142)	61	18	19	44	126	3	8	5	112	140	10	34
Miles (n=5,059.23)	3,311.34	309.52	166.81	1,271.56	4,553.92	49.61	58.66	38.30	3,836.01	5,055.18	230.34	1,176.23
<b>Middle South Platte River</b>												
Segments (n=58)	23	7	3	25	52	2	9	0	41	58	6	12
Miles (n=5,270.61)	1,878.02	373.28	0	3,019.31	4,946.74	61.9	334.25	0	3,083.8	5,270.61	458.10	2,621.84
<b>Lower South Platte River</b>												
Segments (n=6)	0	0	1	5	4	0	1	1	3	6	0	3
Miles (n=6,222.66)	0	0	0	6,222.66	1129.16	0	5,093.50	0	306	6,222.66	0	5,916.66
<b>Totals Basin-Wide</b>												
Segments (n=218)	94	27	23	74	189	6	22	6	165	216	18	49
<i>Segments as Percent of Total</i>	43%	12%	11%	34%	87%	3%	10%	3%	76%	99%	8%	22%
Miles (n=18,589.70) <sup>1</sup>	7,208.66	700.7	166.81	10,513.53	12,515.02	161.71	5,588.21	38.3	9,231.21	18,585.65	789.94	9,714.73
<i>Miles as Percent of Total<sup>1</sup></i>	39%	4%	1%	57%	67%	1%	30%	0.2%	50%	99.9%	4%	52%

<sup>1</sup> Lake acres are not shown.

Sources: WQCC 2010a, 2010b; 2010c.

Exhibit 11-22. North Platte River Sub-Basin Use Classifications by Waterbody Segment

Stream Segment <sup>1</sup> (COUCNP)	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
1	All tributaries to the North Platte and Encampment Rivers, including all wetlands, within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.	101.50	•				•				•	•	OW <sup>2</sup>
2	Mainstem of the Encampment River, including all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1.	50.20	•					•			•	•	
3	Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.	62.70	•				•				•	•	
4a	All tributaries to the North Platte River system, including all wetlands, except for those tributaries included in Segment 1, and specific listings in Segments 4b, 6, 7a and 7b.	1,563.10	•				•				•	•	
4b	Mainstem of the Illinois River, including all tributaries and wetlands, from a point immediately below the confluence with Indian Creek to the confluence with the Michigan River except for specific listings in Segments 7a and 7b. Mainstem of the Canadian River below 12E Road to the confluence with the North Platte River. All tributaries which enter the mainstem of the Canadian River from the southwest side of the mainstem.	140.80	•				•				•	•	
5a	Mainstem of the Michigan River from the source to a point immediately below the confluence with the North Fork Michigan River.	17.10	•				•				•	•	
5b	Mainstem of the Michigan River from a point immediately below the confluence with the North Fork Michigan River to the confluence with the North Platte River.	70.00	•						•		•	•	
6	Mainstem of Pinkham Creek from the Routt National Forest boundary to the confluence with the North Platte River.	13.90	•						•			•	

Stream Segment <sup>1</sup> (COUCNP)	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
7a	Mainstem of Government Creek from the boundary of the Colorado State Forest to the confluence with the Canadian River. Mainstem of Spring Creek from the source to the outlet of Spring Creek (Number 31) Reservoir.	5.60		•						•		•	
7b	Mainstem of Spring Creek from the outlet of Spring Creek (Number 31) Reservoir to the confluence with the Illinois River.	12.30		•						•		•	
8	All lakes and reservoirs within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.	<sup>3</sup>	•				•				•	•	OW
9	All lakes and reservoirs tributary to the North Platte and Encampment Rivers except for specific listings in Segment 8.	<sup>4</sup>	•				•				•	•	
<b>Total Segments</b>		12	10	2	0	0	7	1	4	0	9	12	2
<b>Total Miles<sup>5,6</sup></b>		2,037.20	2,019.30	17.90	0	0	1,885.20	50.20	101.80	0	2,005.40	2,037.20	101.50

<sup>1</sup> WQCC 2010a, 2010b, 2010c.

<sup>2</sup> OW = Outstanding Waters

<sup>3</sup> Lake-only segment. Lake acres = 403.80.

<sup>4</sup> Lake-only segment. Lake acres = 4,933.00.

<sup>5</sup> Totals may not add due to rounding.

<sup>6</sup> All acres for lake-only segments and lakes that are part of a segment with streams or wetlands and that have been assessed have been individually footnoted and are not included in the segment miles.

Exhibit 11-23. Upper South Platte River Sub-Basin Use Classifications by Waterbody Segment

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
<b>Upper South Platte (COSBUS)</b>													
1a	Mainstem of the South Platte River from the source of the South and Middle Forks to the inlet of Cheesman Reservoir.	175.86	•				•				•	•	
1b	All tributaries to the South Platte River, including wetlands within the Lost Creek and Mt. Evans Wilderness Areas.	124.30	•				•				•	•	OW <sup>2</sup>
2a	All tributaries to the South Platte River system, including all wetlands from the headwaters of the South and Middle Forks to a point immediately below the confluence with Tarryall Creek except for specific listings in Segment 1b, 2b and 2c.	1,281.90	•				•				•	•	
2b	Mainstem of Mosquito Creek from the confluence with South Mosquito Creek to its confluence with the Middle Fork of the South Platte River.	8.63	•				•				•	•	UP <sup>3</sup>
2c	South Mosquito Creek from the source to confluence with Mosquito Creek and No Name Creek from the source to the confluence with South Mosquito Creek.	4.30	•				•				•	•	UP
3	All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with Tarryall Creek to a point immediately above the confluence with the North Fork of the South Platte River, except for specific listings in Segment 1b.	381.84	•				•				•	•	
4	Mainstem of the North Fork of the South Platte River, including all tributaries and wetlands from the source to the confluence with the South Platte River, except for specific listings in Segments 1b, 5a, 5b, and 5c.	286.48	•				•				•	•	



Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
5a	Mainstem of Geneva Creek from the source to the confluence with Scott Gomer Creek.	9.06	•				•					•	
5b	Mainstem of Geneva Creek from the confluence with Scott Gomer Creek to the confluence with the North Fork of the South Platte River; all tributaries of Geneva Creek including wetlands from source to confluence with the North Fork of the South Platte River.	28.9	•				•				•	•	
5c	Mainstem of Gooseberry Gulch and all tributaries from source to Sunset Trail.	2.40		•						•	•	•	
5d	Mainstem of Gooseberry Gulch and all tributaries from Sunset Trail to confluence with Elk Creek.	0.70		•						•	•	•	
6a	Mainstem of the South Platte River from the outlet of Cheesman Reservoir to the inlet of Chatfield Reservoir.	67.30	•				•				•	•	
6b	Chatfield Reservoir	<sup>4</sup>	•				•				•	•	
7	All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for specific listings in Segments 8, 9, 10, 11, 12, and 13.	103.40		•			•					•	
8	Mainstems of East and West Plum Creek from the source to the boundary of National Forest lands, including all tributaries and wetlands within the Plum Creek drainage which are on National Forest Lands, except for the specific listing in Segment 9.	52.90	•				•				•	•	
9	Mainstem of Bear Creek, including all tributaries and wetlands from the source to the inlet of Perry Park Reservoir (Douglas County).	8.75	•				•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
10a	Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.	58.80			•		•				•	•	
11a	All tributaries to the East Plum Creek system, including all wetlands which are not on national forest lands.	60.70				•	•					•	UP
11b	All tributaries to the West Plum Creek system, including all wetlands, which are not on national forest lands, except for specific listings in Segments 9 and 12.	48.10				•	•					•	UP
12	Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek.	12.00			•		•				•	•	
13	Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir.	31.00	•				•				•	•	
14	Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.	21.23			•		•				•	•	
15	Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek.	26.90				•	•				•	•	UP
16a	Mainstem of Sand Creek from the confluence of Murphy and Coal Creek in Arapahoe County to the confluence with the South Platte River.	14.30				•	•					•	
16b	Aurora Reservoir.	<sup>5</sup>			•		•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
16c	All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for specific listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, and 16h.	322.70				•	•					•	UP
16d	Second Creek from the source to the O'Brian Canal.	18.30				•	•					•	UP
16e	Third Creek from the source to the O'Brian Canal.	21.70				•	•					•	UP
16f	Barr Lake Tributary from the source to the Denver Hudson Canal.	7.71				•	•					•	UP
16g	Marcy Gulch, including all wetlands from the source to the confluence with the South Platte.	5.98				•	•					•	UP
16h	Mainstem of West Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with East Toll Gate Creek. Mainstem of East Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with West Toll Gate Creek. Mainstem of Toll Gate Creek, downstream of the confluence of East and West Toll Gate Creeks, to the confluence with Sand Creek.	41.47				•	•					•	
17a	Washington Park Lakes, City Park Lakes, Rocky Mountain Lake, Berkely Lake.	6			•		•					•	
17b	Sloan's Lake.	7			•		•					•	
17c	Bowles Lake, a.k.a. Patrick Reservoir or Bow Mar Lake.	8			•		•					•	
18	Lakes and reservoirs within the boundaries of the Lost Creek and Mt. Evans Wilderness areas.	9	•				•				•	•	OW

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
19	Lakes and reservoirs in the South Platte River system from headwaters to Chatfield Reservoir, except for specific listings in Segment 18. Includes Antero, Spinney Mountain, Elevenmile, Cheesman, and Strontia Springs.	10	•				•				•	•	
20	Lakes and reservoirs in the Plum Creek system within National Forest boundaries; and lakes and reservoirs in the Bear Creek drainage between the National Forest boundary and to the inlet of Perry Park Reservoir (Douglas County).	11	•				•				•	•	
21	Lakes and reservoirs in the Plum Creek system except for specific listings in Segment 20.	12				•	•				•	•	
22	Lakes and reservoirs in watersheds tributary to the South Platte River from the outlet of Chatfield Reservoir to a point immediately below the confluence with Big Dry Creek, except for specific listings in the subbasins of the South Platte River, and in Segments 16b, 17a, 17b, 17c, and 23.	13				•	•				•	•	
23	Lakes and reservoirs in watersheds tributary to the Upper South Platte River and within the City and County of Denver, except for specific listings in the other subbasins of the South Platte River and in Segments 17a and 17b.	14				•	•					•	
<b>Subtotal Segments</b>		40	17	3	7	13	38	0	0	2	25	40	12
<b>Subtotal Miles<sup>15</sup></b>		3,227.61	2,461.22	106.50	92.03	567.86	3,224.51	0	0	3.1	2,574.19	3,227.61	649.32
<b>Cherry Creek (COSPCC)</b>													
1	Mainstem of Cherry Creek from the source of East and West Cherry Creek to the inlet of Cherry Creek Reservoir.	33.70				•	•				•	•	
2	Cherry Creek Reservoir.	16			•		•				•	•	



Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
3	Mainstem of Cherry Creek from the outlet of Cherry Creek Reservoir to the confluence with the South Platte River.	11.90				•	•				•	•	
4	All tributaries to Cherry Creek, including all wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River.	325.12				•	•					•	UP
5	Lakes and reservoirs in the Cherry Creek system from the source of East and West Cherry Creeks to the confluence with the South Platte River, except for specific listings in Segments 2 and 6.	17				•	•				•	•	
6	Lakes and reservoirs in watersheds tributary to Cherry Creek within the City and County of Denver.	18				•	•					•	
<b>Subtotal Segments</b>		6	0	0	1	5	6	0	0	0	4	6	1
<b>Subtotal Miles<sup>15</sup></b>		370.72	0	0	0	370.72	370.72	0	0	0	45.60	370.72	325.12
<b>Bear Creek (COSPBE)</b>													
1a	Mainstem of Bear Creek from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake.	16.40	•				•				•	•	
1b	Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.	1.81		•			•				•	•	
1c	Bear Creek Reservoir.	19	•				•				•	•	
1d	Evergreen Lake.	11	•				•				•	•	
1e	Mainstem of Bear Creek from the outlet of Evergreen Lake to the Harriman Ditch.	11.90	•				•				•	•	
2	Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River.	8.00			•		•				•	•	
3	All tributaries to Bear Creek, including all wetlands, from the source to the outlet of Evergreen Lake. Except for specific listings in Segment 7.	41.70	•				•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
4a	All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b.	33.90				•	•				•	•	
5	Swede, Kerr, Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Cub Creek from the source to the confluence with Bear Creek.	29.50		•			•				•	•	
6a	Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for specific listings in Segment 6b.	22.20		•			•				•	•	
6b	Mainstem of North Turkey Creek, from the source to the confluence with Turkey Creek.	12.80	•				•				•	•	
7	Mainstem and all tributaries to Bear Creek, including wetlands, within the Mt. Evans Wilderness Area.	26.60	•				•				•	•	OW
8	Lakes and reservoirs in the Bear Creek system from the sources to the boundary of the Mt. Evans Wilderness area.	20	•				•				•	•	OW
9	Lakes and reservoirs in the Bear Creek system from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake.	21	•				•				•	•	
10	Lakes and reservoirs in drainages of Swede Gulch, Sawmill Gulch, Troublesome Gulch, and Cold Springs Gulch from source to confluence with Bear Creek.	22		•			•				•	•	
11	Lakes and reservoirs in the Bear Creek system from the outlet of Evergreen Lake to the confluence with the South Platte River, except as specified in Segments 1c, 10, and 12; includes Soda Lakes.	23				•	•				•	•	
12	Lakes and reservoirs in the Turkey Creek system from the source to the inlet of Bear Creek Reservoir.	24		•			•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
<b>Subtotal Segments</b>		17	9	5	1	2	17	0	0	0	17	17	2
<b>Subtotal Miles<sup>15</sup></b>		204.81	109.40	53.51	8.00	33.90	204.81	0	0	0	204.81	204.81	26.60
<b>Clear Creek (COSPCL)</b>													
1	Mainstem of Clear Creek, including all tributaries and wetlands, from the source to the I-70 bridge above Silver Plume.	29.30	•				•				•	•	
2a	Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for specific listings in Segments 3a and 3b.	6.20	•				•				•	•	
2b	Mainstem of Clear Creek, including all tributaries and wetlands, from the confluence with West Fork Clear Creek to a point just below the confluence with Mill Creek, except for specific listings in Segments 4 through 8.	13.06	•				•				•	•	
2c	Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for specific listings in Segments 9a, 9b, and 10.	24.15	•				•				•	•	
3a	Mainstem of South Clear Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for the specific listings in Segments 3b and 19.	9.47	•				•				•	•	
3b	Mainstem of Leavenworth Creek from source to confluence with South Clear Creek.	6.40		•			•				•	•	
4	Mainstem of West Clear Creek from the source to the confluence with Woods Creek.	4.17	•				•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
5	Mainstem of West Clear Creek from the confluence with Woods Creek to the confluence with Clear Creek.	9.23	•				•					•	
6	All tributaries to West Clear Creek, including all wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segments 7 and 8.	23.22	•				•				•	•	
7	Mainstem of Woods Creek from the outlet of Upper Urad Reservoir to the confluence with West Clear Creek, including Lower Urad Reservoir.	2.14		•						•			UP
8	Mainstem of Lion Creek from the source to the confluence with West Clear Creek.	1.91		•			•						UP
9a	Mainstem of the Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.	19.94	•				•				•	•	
9b	Mainstem of Trail Creek, including all tributaries and wetlands from the source to the confluence with Clear Creek.	4.00	•				•				•	•	
10	Mainstem of Chicago Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segment 19.	27.40	•				•				•	•	
11	Mainstem of Clear Creek from a point just above the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado.	21.00	•				•				•	•	UP
12	All tributaries to Clear Creek, including all wetlands, from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado, except for specific listings in Segments 13a and 13b.	62.20		•			•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
13a	Mainstem of North Clear Creek, including all tributaries and wetlands, from its source to its confluence with Chase Gulch. and Four Mile Gulch, including all tributaries and wetlands, from their sources to their confluence with North Clear Creek and Eureka Gulch, including all tributaries and wetlands, from its source to its confluence with Gregory Gulch.	31.00	•				•				•	•	
13b	Mainstem of North Clear Creek including all tributaries and wetlands from a point just below the confluence with Chase Gulch to the confluence with Clear Creek, except for the specific listings in Segment 13a.	25.76		•			•					•	UP
14a	Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing.	3.79				•				•		•	UP
14b	Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado.	0.52				•	•				•	•	UP
15	Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River.	11.90			•		•				•	•	
16a	Mainstem of Lena Gulch including all tributaries and wetlands from its source to the inlet of Maple Grove Reservoir.	6.73				•	•				•	•	UP
16b	All tributaries to Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for specific listings in Segments 16a, 17a, 17b, 18a and 18b.	5.34				•				•		•	UP
17a	Arvada Reservoir.	25		•						•		•	UP



Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
17b	Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.	35.20		•						•	•		
18a	Mainstem of Ralston Creek, including all tributaries and wetlands, from the outlet of Arvada Reservoir to the confluence with Clear Creek.	9.94				•	•				•	•	UP
18b	Mainstem of Leyden Creek and Van Bibber Creek from their source to their confluence with Ralston Creek. Mainstem of Little Dry Creek from its source to its confluence with Clear Creek.	33.50				•			•		•	•	UP
19	All tributaries to Clear Creek, including wetlands, within the Mt. Evans Wilderness Area.	5.74	•				•				•	•	OW
20	Lakes and reservoirs in the Clear Creek system that are within the boundary of the Mt. Evans Wilderness Area.	26	•				•				•	•	OW
21	Lakes and reservoirs in the Clear Creek system from sources to the Farmer's Highline Canal diversion in Golden, CO,, except as specified in Segments 7, 20, 22 and 25. Upper Long Lake.	27	•				•				•	•	
22	Lakes and reservoirs in the North Clear Creek drainage from a point just below the confluence with Chase Gulch to the confluence with Clear Creek.	28	•				•					•	
23	Ralston Reservoir	29		•						•	•	•	
24	Lakes and reservoirs in the Clear Creek system from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for specific listings in Segments 17a, 21 and 23.	30			•					•	•	•	
25	Guanella Reservoir	31	•				•					•	
<b>Subtotal Segments</b>		34	18	8	2	6	26	0	5	3	27	32	13

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
<b>Subtotal Miles<sup>15</sup></b>		433.21	227.88	133.61	11.90	59.82	353.24	0	44.77	35.20	388.83	429.16	116.37
<b>Big Dry Creek (COSPBD)</b>													
1	Mainstem of Big Dry Creek, including all tributaries and wetlands, from the source to the confluence with the South Platte River, except for specific listing in Segments 4a, 4b, 5 and 6.	48.20				•		•				•	UP
2	Standley Lake.	<sup>32</sup>			•		•				•	•	
3	Great Western Reservoir.	<sup>33</sup>				•			•		•	•	UP
4a	Mainstem and all tributaries to Woman and Walnut Creeks from sources to Standley Lake and Great Western Reservoir except for specific listings in Segments 4b and 5.	2.87				•	•				•	•	UP
4b	North and South Walnut Creek and Walnut Creek, from the eastern edge of the Central Operable Unit on Rocky Flats Property to Indiana Street and North Walnut Creek from its source to the western edge of the Central Operable Unit.	1.41				•		•			•	•	UP
5	North Walnut Creek from the western edge of the Central Operable Unit and South Walnut Creek from its source, including all tributaries, lakes, reservoirs and wetlands, to the eastern boundary of the Central Operable Unit and Pond C-2 on Woman Creek.	7.38				•			•		•	•	UP
6	Upper Big Dry Creek and South Upper Big Dry Creek, from their source to Standley Lake.	6.51				•			•		•	•	UP
7	Lakes and reservoirs in the Big Dry Creek system from the source to the confluence with the South Platte River, except for specific listings in Segments 2, 3, and 5.	<sup>34</sup>				•		•			•	•	
<b>Subtotal Segments</b>		8	0	0	1	7	2	3	3	0	7	8	6
<b>Subtotal Miles<sup>16</sup></b>		66.37	0	0	0	66.37	2.87	49.61	13.89	0	18.17	66.37	66.37

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
<b>Boulder Creek (COSPBO)</b>													
1	All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks Wilderness Area.	21.10	•				•				•	•	OW
2a	Mainstem of Boulder Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately below the confluence with North Boulder Creek, except for the specific listings in Segment 3.	50.50	•				•				•	•	
2b	Mainstem of Boulder Creek, including all tributaries and wetlands, from the a point immediately below the confluence with North Boulder Creek to a point immediately above the confluence with South Boulder Creek.	54.87	•				•				•	•	
3	Mainstem of Middle Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Barker Reservoir, except for specific listings in Segment 1.	20.10	•				•				•	•	
4a	Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir.	92.22	•				•				•	•	
4b	Mainstem of South Boulder Creek, including all tributaries and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d.	28.40	•				•				•	•	
4c	Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch.	1.00				•	•				•	•	UP
4d	Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek.	1.00				•	•				•	•	UP

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
5	Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek.	3.70			•		•				•	•	
6	Mainstem of Coal Creek, including all tributaries and wetlands, from the source to Highway 93.	15.90		•			•				•	•	
7a	Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike).	5.60			•		•					•	UP
7b	Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek.	16.60				•	•					•	
8	All tributaries to South Boulder Creek, including all wetlands from South Boulder Road to the confluence with Boulder Creek and all tributaries to Coal Creek, including all wetlands from Highway 93 to the confluence with Boulder Creek.	29.60				•	•					•	UP
9	Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.	11.50			•		•				•	•	
10	Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek.	6.78			•		•				•	•	
11	All tributaries to Boulder Creek, including all wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5, 7a and 7b.	38.90				•	•				•	•	UP
13	All lakes and reservoirs tributary to Boulder Creek that are within the boundary of the Indian Peaks Wilderness Area.	35	•				•				•	•	OW

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
14	All lakes and reservoirs tributary to Boulder Creek from the source to a point immediately above the South Boulder Creek confluence, except as specified in Segment 13. This segment includes Barker Reservoir.	36	•				•				•	•	
15	All lakes and reservoirs tributary to South Boulder Creek from the source to Highway 93. All lakes and reservoirs tributary to Coal Creek from the source to Highway 93. This segment includes Gross Reservoir.	37		•			•				•	•	
16	All lakes and reservoirs tributary to South Boulder Creek system from Highway 93 to the confluence with Boulder Creek. All lakes and reservoirs tributary to Coal Creek system from Highway 93 to the confluence with Boulder Creek.	38				•	•				•	•	
17	All lakes and reservoirs tributary to Boulder Creek from a point immediately below the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except as specified in Segments 15 and 16.	39				•	•				•	•	
<b>Subtotal Segments</b>		21	8	2	4	7	21	0	0	0	18	21	7
<b>Subtotal Miles<sup>15</sup></b>		397.77	267.19	15.90	27.58	87.10	397.77	0	0	0	345.97	397.77	97.20
<b>St. Vrain Creek (COSPSV)</b>													
1	All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.	52.60	•				•				•	•	OW
2a	Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to the eastern boundary of Roosevelt National Forest.	99.90	•				•				•	•	



Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
2b	Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.	31.90	•				•				•	•	
3	Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River.	27.30			•		•					•	
4a	Mainstem of Left Hand Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with James Creek, except for specific listings in Segment 4b.	21.50	•				•				•	•	
4b	Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek.	18.65	•				•				•	•	
4c	Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.	21.10	•				•				•	•	
5	Mainstem of Left Hand Creek, including all tributaries and wetlands from Highway 36 to the confluence with St. Vrain Creek.	12.80				•	•				•	•	
6	All tributaries to St. Vrain Creek, including wetlands from Hygiene Road to the confluence with the South Platte River, except for specific listings in the Boulder Creek subbasin and in Segments 4a, 4b, 4c and 5.	73.00				•	•					•	UP
7	Boulder Reservoir, Coot Lake, and Left Hand Valley Reservoir.	40			•		•				•	•	
8	All lakes and reservoirs tributary to St. Vrain Creek that are within the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park.	41	•				•				•	•	OW

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
9	All lakes and reservoirs tributary to St. Vrain Creek from sources to Hygiene Road, including Button Rock Reservoir, except as specified in Segment 8.	42	•				•				•	•	
10	All lakes and reservoirs tributary to Left Hand Creek from sources to Highway 36.	43	•				•				•	•	
11	Barbour Ponds.	44			•		•				•	•	
12	All lakes and reservoirs tributary to Left Hand Creek from Highway 36 to the confluence with St. Vrain Creek, except as specified in Segment 7.	45				•	•				•	•	
13	All lakes and reservoirs tributary to St. Vrain Creek from Hygiene Road to the confluence with the South Platte River, except as specified in Segments 7, 10, 11 and 12.	46				•	•				•	•	
<b>Subtotal Segments</b>		16	9	0	3	4	16	0	0	0	14	16	3
<b>Subtotal Miles<sup>15</sup></b>		358.75	245.65	0	27.30	85.80		0	0	0	258.45	358.75	125.60
<b>Total Segments</b>		142	61	18	19	44	126	3	8	5	112	140	44
<b>Total Miles<sup>47</sup></b>		5,059.23	3,311.34	309.52	166.81	1,271.56	4,553.92	49.61	58.66	38.30	3,836.01	5,055.18	1,406.57

<sup>1</sup> WQCC 2010a, 2010b, 2010c.

<sup>2</sup> OW = Outstanding Waters

<sup>3</sup> UP = Use Protected

<sup>4</sup> Lake-only segment. Lake acres = 1,392.70.

<sup>5</sup> Lake-only segment. Lake acres = 760.10.

<sup>6</sup> Lake-only segment. Lake acres = 121.40.

<sup>7</sup> Lake-only segment. Lake acres = 167.89.

<sup>8</sup> Lake-only segment. Lake acres = 87.90.

<sup>9</sup> Lake-only segment. Lake acres = 25.90.

<sup>10</sup> Lake-only segment. Lake acres = 10,709.30.

<sup>11</sup> Lake-only segment. Lake acres are not available.

<sup>12</sup> Lake-only segment. Lake acres = 75.20.

<sup>13</sup> Lake-only segment. Lake acres = 784.70.

<sup>14</sup> Lake-only segment. Lake acres = 1,138.10.

<sup>15</sup> Totals may not add due to rounding.

<sup>16</sup> Lake-only segment. Lake acres = 858.26.

<sup>17</sup> Lake-only segment. Lake acres = 446.60.

<sup>18</sup> Lake-only segment. Lake acres = 48.70.

<sup>19</sup> Lake-only segment. Lake acres = 116.70.

<sup>20</sup> Lake-only segment. Lake acres = 101.10.

<sup>21</sup> Lake-only segment. Lake acres = 1.00.

<sup>22</sup> Lake-only segment. Lake acres = 1.00.

<sup>23</sup> Lake-only segment. Lake acres = 437.90.

<sup>24</sup> Lake-only segment. Lake acres = 7.20.

<sup>25</sup> Lake-only segment. Lake acres = 186.20.

<sup>26</sup> Lake-only segment. Lake acres = 34.90.

<sup>27</sup> Lake-only segment. Lake acres = 389.80.

<sup>28</sup> Lake-only segment. Lake acres = 5.90.

<sup>29</sup> Lake-only segment. Lake acres = 153.50.

<sup>30</sup> Lake-only segment. Lake acres = 1,166.30.

<sup>31</sup> Lake-only segment. Lake acres = 58.90.

<sup>32</sup> Lake-only segment. Lake acres = 2,406.85.

<sup>33</sup> Lake-only segment. Lake acres = 140.00.

<sup>34</sup> Lake-only segment. Lake acres = 874.10.

<sup>35</sup> Lake-only segment. Lake acres = 379.50.

<sup>36</sup> Lake-only segment. Lake acres = 576.00.

<sup>37</sup> Lake-only segment. Lake acres = 709.70.

<sup>38</sup> Lake-only segment. Lake acres = 501.10.

<sup>39</sup> Lake-only segment. Lake acres = 1,469.90.

<sup>40</sup> Lake-only segment. Lake acres = 666.30.

<sup>41</sup> Lake-only segment. Lake acres = 362.60.

<sup>42</sup> Lake-only segment. Lake acres = 1,390.70.

<sup>43</sup> Lake-only segment. Lake acres = 135.50.

<sup>44</sup> Lake-only segment. Lake acres = 55.00.

<sup>45</sup> Lake-only segment. Lake acres = 272.70.

<sup>46</sup> Lake-only segment. Lake acres = 2,296.10.

<sup>47</sup> All acres for lake-only segments and lakes that are part of a segment with streams or wetlands and that have been assessed have been individually footnoted and are not included in the segment miles.

Exhibit 11-24. Middle South Platte River Sub-Basin Use Classifications by Waterbody Segment

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
<b>Middle South Platte (COSPMS)</b>													
1a	Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek.	18.90				•	•				•	•	UP <sup>2</sup>
1b	Mainstem of the South Platte River from a point immediately below the confluence with St. Vrain Creek to the Weld/Morgan County Line.	51.60				•	•				•	•	
3a+L	All tributaries to the South Platte River, including all wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for specific listings in the subbasins of the South Platte River, and in Segments 3b, 5a, 5b, 5c, and 6.	1,518.00 <sup>3</sup>				•	•					•	UP
3b	Hayesmount Tributaries including the Upper Hayesmount Tributary from the source to the confluence with Box Elder Creek and the Lower Hayesmount Tributaries from the source to the Denver Hudson Canal.	24.50				•	•					•	UP
4	Barr Lake and Milton Reservoir.	<sup>4</sup>				•	•				•	•	UP
5a	Mainstem of Lone Tree Creek from the source to the confluence with the South Platte River.	66.21				•						•	
5b	Mainstem of Boxelder Creek from the confluence with Coyote Run to the Denver Hudson Canal.	14.64				•						•	UP
5c	Mainstems of Crow Creek and Box Elder Creek from their sources to their confluences with the South Platte River, except for specific listings in Segment 5b.	139.42				•						•	
6	Lost Creek from Interstate 76 south, including all its tributaries, stock ponds and wetlands.	41.70				•						•	UP

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
7	All lakes and reservoirs tributary to the South Platte River from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for specific listings in the subbasins of the South Platte River, and in Segment 4.	5				•	•				•	•	
<b>Subtotal Segments</b>		10	0	0	0	10	6	0	4	0	4	10	6
<b>Subtotal Miles<sup>6</sup></b>		1,874.97	0	0	0	1,874.97	1,613.00	0	261.97	0	70.5	1,874.97	1,617.74
<b>Big Thompson River (COSPBT)</b>													
1	Mainstem of the Big Thompson River, including all tributaries and wetlands, within Rocky Mountain National Park, except for specific listings in Segment 2.	141.40	•				•				•	•	OW <sup>7</sup>
2	Mainstem of the Big Thompson River, including all tributaries and wetlands from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion, except for the specific listing in Segment 7; mainstem of Black Canyon Creek and Glacier Creek below Estes Park water treatment plant.	147.81	•				•				•	•	
3	Mainstem of the Big Thompson River from the Home Supply Canal diversion to the Big Barnes Ditch diversion.	5.45		•			•				•	•	
4a	Mainstem of the Big Thompson from the Big Barnes Ditch diversion to the Greeley-Loveland Canal diversion.	2.19		•			•8			•8	•	•	
4b	Mainstem of the Big Thompson from the Greeley-Loveland Canal diversion to County Road 11H.	4.11				•	•8			•8		•	
4c	Mainstem of the Big Thompson from County Road 11H to I-25.	4.08				•	•8			•8		•	
5	Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River.	18.90				•		•9	•9			•	



Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
6	All tributaries to the Big Thompson River, including all wetlands, from the Home Supply Canal diversion to the confluence with the South Platte River.	214.32				•	•					•	UP
7	Mainstem of the North Fork of the Big Thompson River from the boundary of Rocky Mountain National Park to the confluence with the Big Thompson River; mainstem of Buckhorn Creek from the source to the confluence with the Big Thompson River.	45.71	•				•				•	•	
8	Mainstem of the Little Thompson River, including all tributaries and wetlands, from the source to the Culver Ditch diversion.	99.20	•				•				•	•	
9	Mainstem of the Little Thompson River from the Culver Ditch diversion to the confluence with the Big Thompson River.	24.20				•	•					•	
10	All tributaries to the Little Thompson River, including all wetlands, from the Culver Ditch diversion to the confluence with the Big Thompson River.	27.78				•	•					•	UP
11	Carter Lake.	<sup>10</sup>	•				•				•	•	
12	Lake Loveland, Horseshoe Lake, Boyd Lake.	<sup>11</sup>			•		•				•	•	
13	Berthoud Reservoir, Johnstown Reservoir.	<sup>12</sup>				•	•				•	•	UP
14	Welch Reservoir, Lonetree Reservoir, Boedecker Lake, Lon Hagler Reservoir.	<sup>13</sup>			•		•				•	•	
15	All lakes and reservoirs tributary to the Big Thompson River within Rocky Mountain National Park.	<sup>14</sup>	•				•				•	•	OW
16	All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion. This segment includes Lake Estes.	<sup>15</sup>	•				•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
17	All lakes and reservoirs tributary to the Big Thompson River from the Home Supply Canal diversion to the confluence with the South Platte River, except for specific listings in Segments 12 and 14.	16				•	•				•	•	
18	All lakes and reservoirs tributary to the Little Thompson River from the source to the Culver Ditch diversion.	17	•				•				•	•	
19	All lakes and reservoirs tributary to the Little Thompson River from the Culver Ditch diversion to the confluence with the Big Thompson River, except for specific listings in Segments 11 and 13.	18				•	•				•	•	
<b>Subtotal Segments</b>		21	8	2	2	9	20	1	4	0	15	21	5
<b>Subtotal Miles<sup>6</sup></b>		735.15	434.12	7.64	0	293.39	716.25	18.90	29.28	0	441.76	735.15	383.50
<b>Cache La Poudre River (COSPCP)</b>													
1	Mainstem of the Cache La Poudre River, and all tributaries and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.	190.40	•				•				•	•	OW
2a	Mainstem of the Cache La Poudre River, including all tributaries and wetlands from the boundaries of Rocky Mountain National Park, and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to a point immediately below the confluence with the South Fork Cache La Poudre River.	228.30	•				•				•	•	
2b	Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from a point immediately below the confluence with the South Fork Cache La Poudre River to the Monroe Gravity Canal/North Poudre Supply canal diversion.	139.70	•				•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
6	Mainstem of the North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the source to the inlet of Halligan Reservoir.	320.80	•				•				•	•	
7	Mainstem of the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River.	23.54		•			•				•	•	
8	All tributaries to the North Fork of the Cache La Poudre River, including all wetlands from, the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for specific listings in Segment 9.	307.70		•			•				•	•	
9	Mainstem of Rabbit Creek and Lone Pine Creek from the source to the confluence with the North Fork of the Cache La Poudre River.	48.50	•				•				•	•	
10	Mainstem of the Cache La Poudre River from the Monroe Gravity Canal/North Poudre Supply Canal diversion to Shields Street in Ft. Collins, Colorado.	16.00		•			•				•	•	
11	Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to a point immediately above the confluence with Boxelder Creek.	8.05				•	•					•	
12	Mainstem of the Cache La Poudre River from a point immediately above the confluence with Boxelder Creek to the confluence with the South Platte River.	37.90				•	•					•	
13a	All tributaries to the Cache La Poudre River, including all wetlands, from the Monroe Gravity Canal/North Poudre Supply canal diversion to the confluence with the South Platte River, except for specific listings in Segments 6, 7, 8, 13b and 13c.	762.00				•	•				•	•	UP

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
13b	Mainstem of Boxelder Creek from its source to the confluence with the Cache La Poudre River.	43.00				•		•19	•19			•	
13c	Mainstems of South Branch of Boxelder Creek, North Branch of Boxelder Creek and Sand Creek from their sources to their confluences with the mainstem of Boxelder Creek.	18.40		•			•				•	•	
14	Horsetooth Reservoir.	<sup>20</sup>	•				•				•	•	
15	Watson Lake.	<sup>21</sup>	•				•				•	•	
16	Reservoir #4 (T 9 N, R 68 W), Water Supply Reservoir #3 (T 8 N, R 68 W), Claymore Lake, College Lake, Dixon Reservoir, Robert Benson Lake, Black Hollow Reservoir, Seeley Lake.	<sup>22</sup>			•		•					•	UP
17	All lakes and reservoirs tributary to the Cache La Poudre River within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Area.	<sup>23</sup>	•				•				•	•	OW
18	All lakes and reservoirs tributary to the Cache La Poudre River from the boundaries of Rocky Mountain National Park, and the Rawah, Neota, Comanche Peak and Cache La Poudre Wilderness Area to the Monroe Gravity Canal/North Poudre Supply canal diversion.	<sup>24</sup>	•				•				•	•	
19	All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the source to the inlet of Halligan Reservoir.	<sup>25</sup>	•				•				•	•	
20	All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River. This segment includes Halligan Reservoir and Seaman Reservoir.	<sup>26</sup>		•			•				•	•	

Stream Segment <sup>1</sup>	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
21	All lakes and reservoirs tributary to the Cache La Poudre River from the Monroe Gravity Canal/North Poudre Supply canal diversion to the confluence with the South Platte River, except for specific listings in Segments 14, 15, 16, 19, 20 and 22.	27				•	•				•	•	
22	Fossil Creek Reservoir.	28				•	•					•	UP
<b>Subtotal Segments</b>		22	10	5	1	6	21	1	1	0	17	22	5
<b>Subtotal Miles<sup>6</sup></b>		2,144.29	927.7	365.64	0	850.95	2,101.29	43	43	0	2,055.34	2,144.29	952.4
<b>Laramie River (COSPLA)</b>													
1	All tributaries to the Laramie River, including all wetlands, which are within the Rawah Wilderness Area.	126.30	•				•				•	•	OW
2a	Mainstem of the Laramie River from the source to the National Forest boundary, and all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for specific listings in Segment 1.	359.90	•				•				•	•	
2b	Mainstem of the Laramie River from the National Forest boundary to the Colorado/Wyoming border.	30.00	•				•				•	•	
3	All lakes and reservoirs tributary to the Laramie River within the Rawah Wilderness Area.	29	•				•				•	•	OW
4	All lakes and reservoirs tributary to the Laramie River from the source to the Colorado/Wyoming border, except for specific listings in Segment 3.	30	•				•				•	•	
<b>Subtotal Segments</b>		5	5	0	0	0	5	0	0	0	5	5	2
<b>Subtotal Miles<sup>6</sup></b>		516.2	516.2	0	0	0	516.2	0	0	0	516.2	516.2	126.3
<b>Total Segments</b>		58	23	7	3	25	52	2	9	0	41	58	18
<b>Total Miles<sup>31</sup></b>		5,270.61	1,878.02	373.28	0	3,019.31	4,946.74	61.9	334.25	0	3,083.8	5,270.61	3,079.94

<sup>1</sup> WQCC 2010a, 2010b, 2010c.

<sup>2</sup> UP = Use protected

<sup>3</sup> Assessed lakes in this segment total 168.30 acres.

<sup>4</sup> Lake-only segment. Lake acres = 3,328.62.

<sup>5</sup> Lake-only segment. Lake acres = 8,164.50.

<sup>6</sup> Totals may not add due to rounding.

<sup>7</sup> OW = Outstanding Waters

<sup>8</sup> Segment is not suitable for recreational uses from October 16 to April 30 and has existing recreational uses from May 1 to October 15 annually.

<sup>9</sup> Segment is not suitable for recreational uses from October 16 to April 30 and is potentially suitable for recreational uses from May 1 to October 15 annually.

<sup>10</sup> Lake-only segment. Lake acres = 1,119.93.

<sup>11</sup> Lake-only segment. Lake acres = 3,106.89.

<sup>12</sup> Lake-only segment. Lake acres = 83.44.

<sup>13</sup> Lake-only segment. Lake acres = 1,440.90.

<sup>14</sup> Lake-only segment. Lake acres = 525.40.

<sup>15</sup> Lake-only segment. Lake acres = 188.30.

<sup>16</sup> Lake-only segment. Lake acres = 1,843.90.

<sup>17</sup> Lake-only segment. Lake acres = 1.00.

<sup>18</sup> Lake-only segment. Lake acres = 1,392.50.

<sup>19</sup> Segment is not suitable for recreational uses from September 16 to May 14 and is potentially suitable for recreational uses from May 15 to September 15 annually.

<sup>20</sup> Lake-only segment. Lake acres = 1,810.30.

<sup>21</sup> Lake-only segment. Lake acres = 39.03.

<sup>22</sup> Lake-only segment. Lake acres = 1,068.80.

<sup>23</sup> Lake-only segment. Lake acres = 174.60.

<sup>24</sup> Lake-only segment. Lake acres = 1,100.70.

<sup>25</sup> Lake-only segment. Lake acres = 892.10.

<sup>26</sup> Lake-only segment. Lake acres = 120.50.

<sup>27</sup> Lake-only segment. Lake acres = 10,707.80.

<sup>28</sup> Lake-only segment. Lake acres = 664.70.

<sup>29</sup> Lake-only segment. Lake acres = 300.40.

<sup>30</sup> Lake-only segment. Lake acres = 215.30.

<sup>31</sup> All acres for lake-only segments and lakes that are part of a segment with streams or wetlands and that have been assessed have been individually footnoted and are not included in the segment miles.



Exhibit 11-25. Lower South Platte River Sub-Basin Use Classifications by Waterbody Segment

Stream Segment <sup>1</sup> (COSPLS)	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
1	Mainstem of the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border.	306.00				•	•				•	•	
2a	All tributaries to the South Platte River, including all wetlands, from the Weld/Morgan County line to the Colorado/Nebraska border, except for the specific listings in Segment 2b.	5,093.50				•				•		•	UP <sup>2</sup>
2b	All tributaries to the South Platte River, including all wetlands, north of the South Platte River and below 4,500 feet in elevation in Morgan County, north of the South Platte River in Washington County, north of the South Platte River and below 4,200 feet in elevation in Logan County, north of the South Platte River and below 3,700 feet in elevation in Sedgwick County, and the mainstems of Beaver Creek, Bijou Creek and Kiowa Creek from their sources to the confluence with the South Platte River, except for the portion of Beaver Creek from its source to the Fort Morgan Canal.	823.16				•	•					•	UP
3	Jackson Reservoir, Prewitt Reservoir, North Sterling Reservoir, Jumbo (Julesburg), Riverside Reservoir, Empire Reservoir, and Vancil Reservoir.	3			•		•					•	UP
4	All lakes and reservoirs tributary to the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border, except for specific listings in Segments 3 and 5.	4				•				•	•	•	

Stream Segment <sup>1</sup> (COSPLS)	Segment Description <sup>1</sup>	Stream Miles <sup>1</sup>	Aquatic Life <sup>1</sup>				Recreation <sup>1</sup>				Water Supply <sup>1</sup>	Agriculture <sup>1</sup>	Designation <sup>1</sup>
			Cold 1	Cold 2	Warm 1	Warm 2	Existing	Potential	Not Suitable	Undetermined			
5	All lakes and reservoirs tributary to the South Platte River north of the South Platte River and below 4,500 feet in elevation in Morgan County, north of the South Platte River in Washington County, north of the South Platte River and below 4,200 feet in elevation in Logan County, north of the South Platte River and below 3,700 feet in elevation in Sedgwick County, and the mainstems of Beaver Creek, Bijou Creek and Kiowa Creek from their sources to the confluence with the South Platte River, except for those specific listings in Segment 3.	5				•	•				•	•	
<b>Total Segments</b>		6	0	0	1	5	4	0	1	1	3	6	3
<b>Total Miles<sup>6,7</sup></b>		6222.66	0	0	0	6,222.66	1129.16	0	5,093.50	0	306	6222.66	5,916.66

<sup>1</sup> WQCC 2010a, 2010b, 2010c.

<sup>2</sup> UP = Use protected

<sup>3</sup> Lake-only segment. Lake acres = 14,720.90.

<sup>4</sup> Lake-only segment. Lake acres = 3,102.60.

<sup>5</sup> Lake-only segment. Lake acres = 2,463.10.

<sup>6</sup> Totals may not add due to rounding.

All acres for lake-only segments and lakes that are part of a segment with streams or wetlands and that have been assessed have been individually footnoted and are not included in the segment miles.

**Exhibit 11-26. in text**

**Exhibit 11-27. in text**

**Exhibit 11-28. in text**

**Exhibit 11-29. in text**

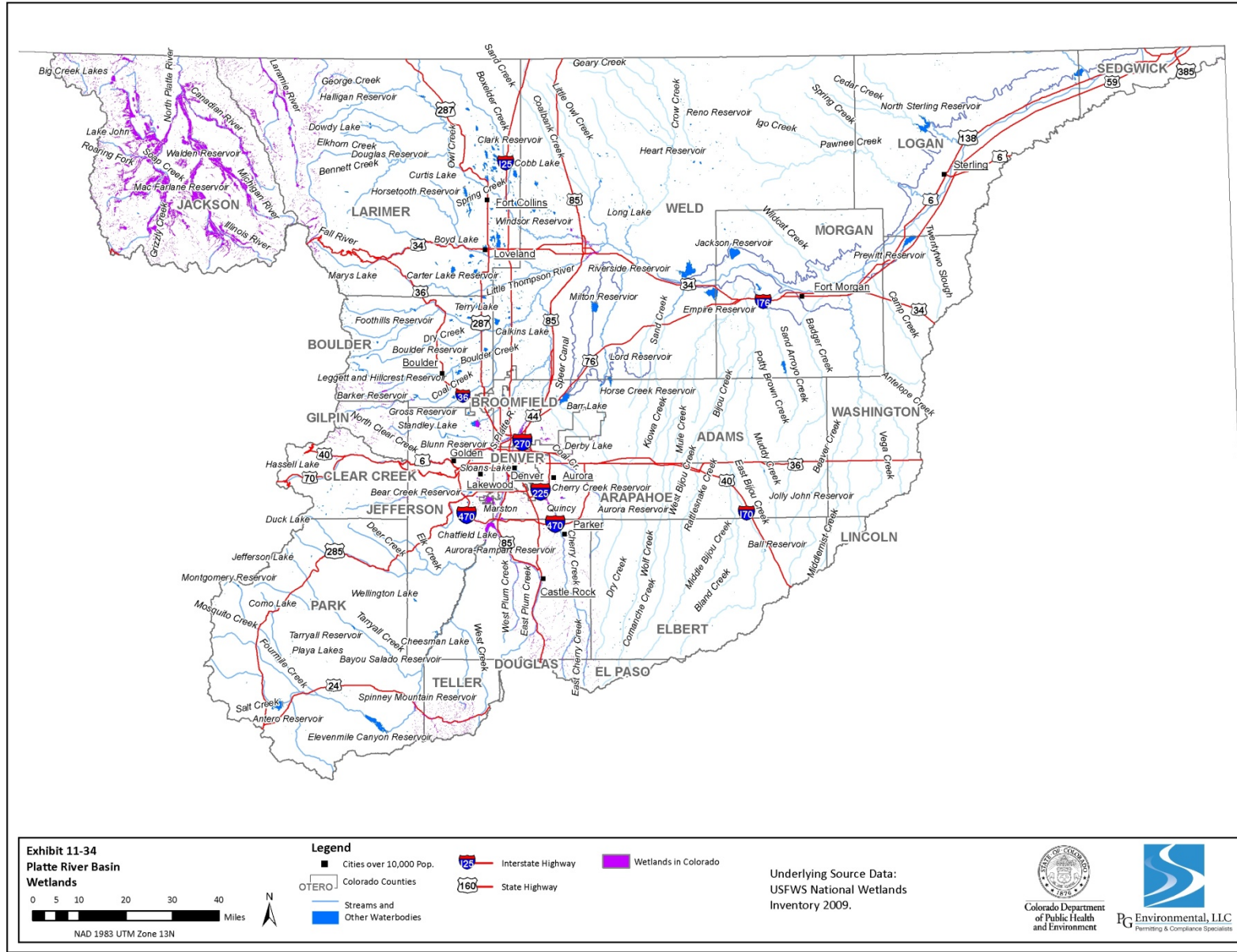
**Exhibit 11-30. in text**

**Exhibit 11-31. in text**

**Exhibit 11-32. in text**

**Exhibit 11-33. in text**

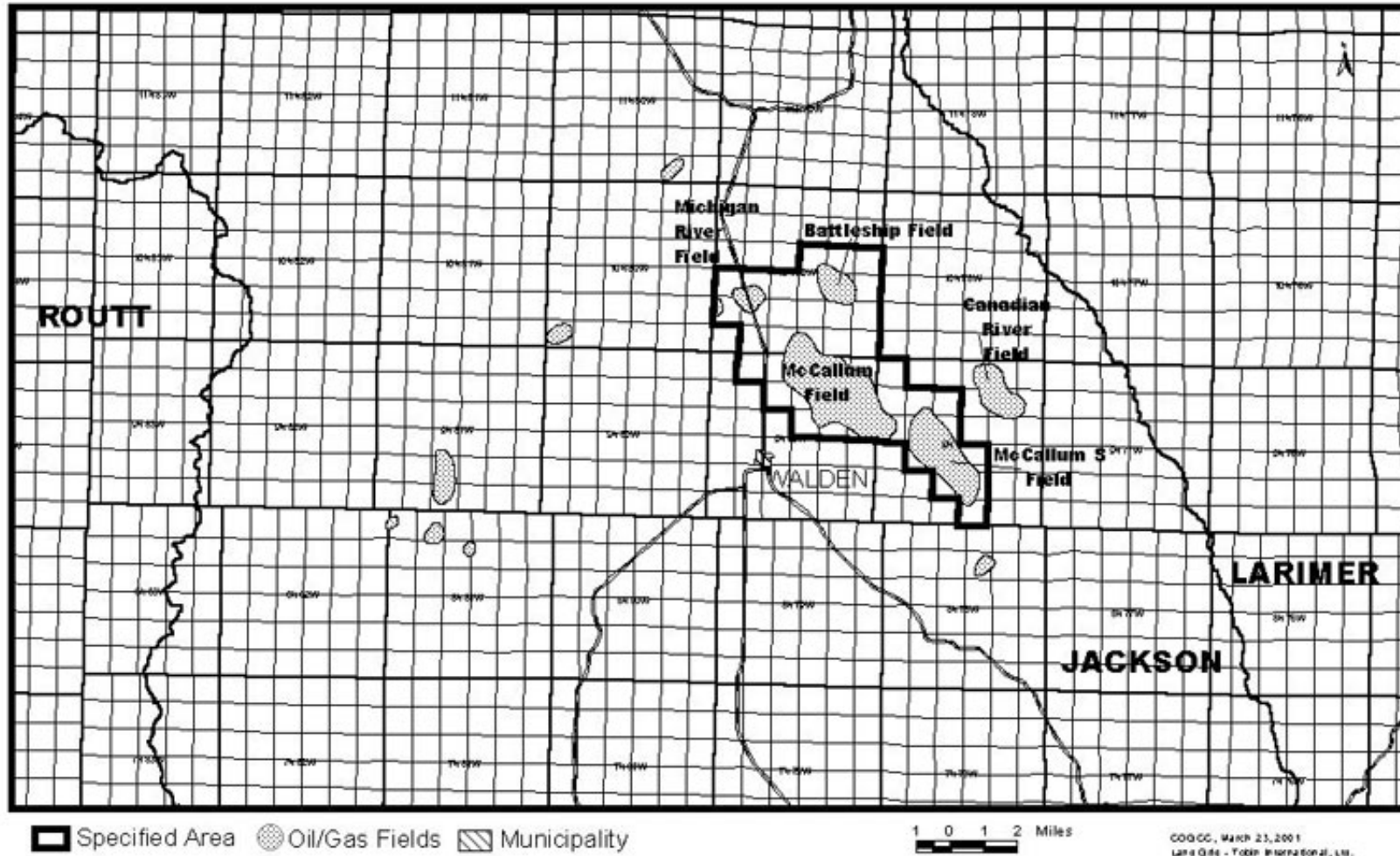
Exhibit 11-34. Platte River Basin Wetlands



**Exhibit 11-35. in text**

**Exhibit 11-36 in text**

Exhibit 11-37. North Platte River Sub-Basin; Oil and Gas Fields of East-Central Jackson County



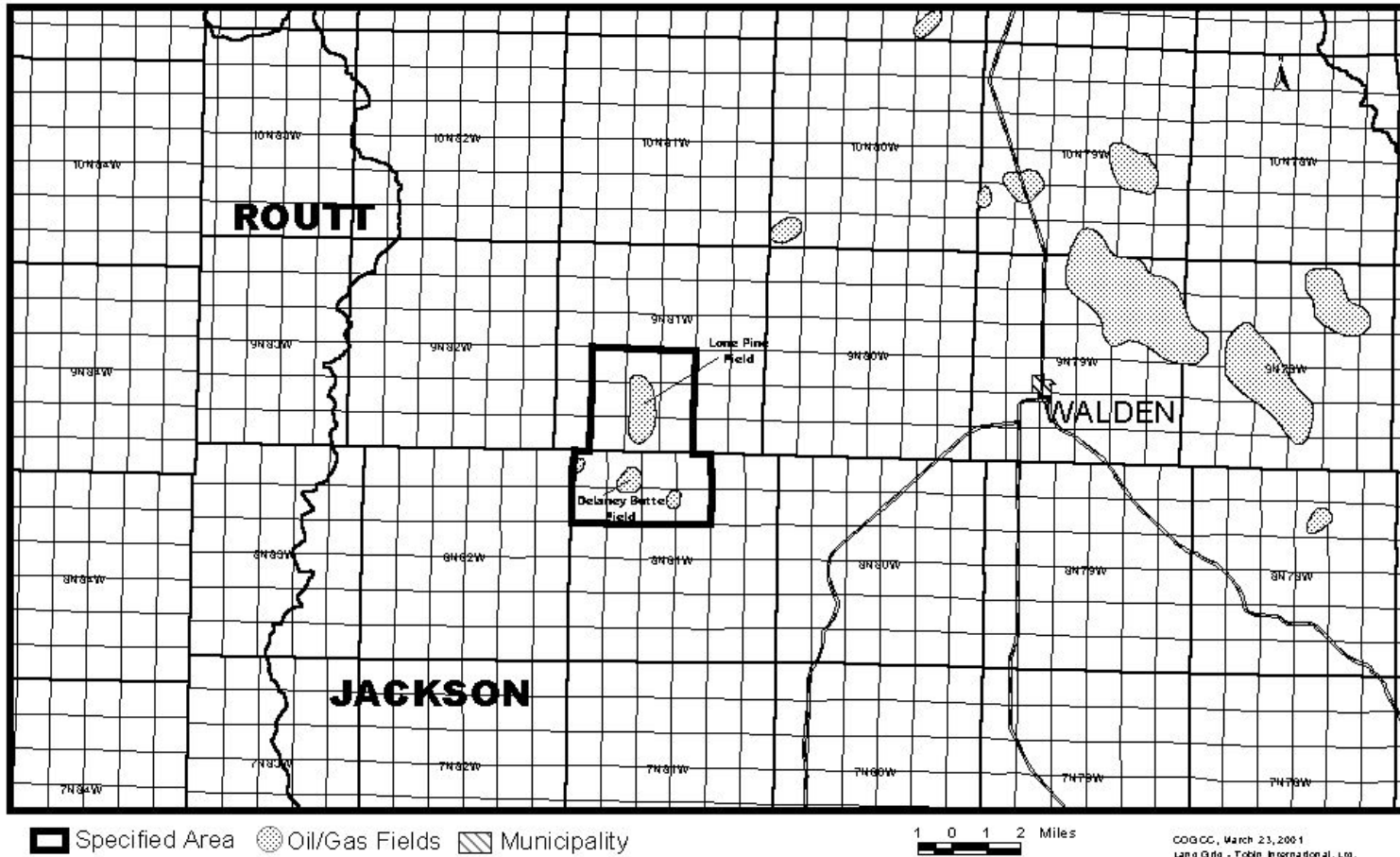
**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, JACKSON COUNTY, COLORADO**

SECTIONS 6-9, 16-18, 20-22, 27-28, AND 34, T9N, R78W;  
 SECTIONS 1-5, 9-15, T9N, R79W;  
 SECTIONS 13-15, 19-30, 32-36, T10N, R79W

Source: WQCC 2006



Exhibit 11-37a. North Platte River Sub-Basin; Oil and Gas Fields of West Jackson County

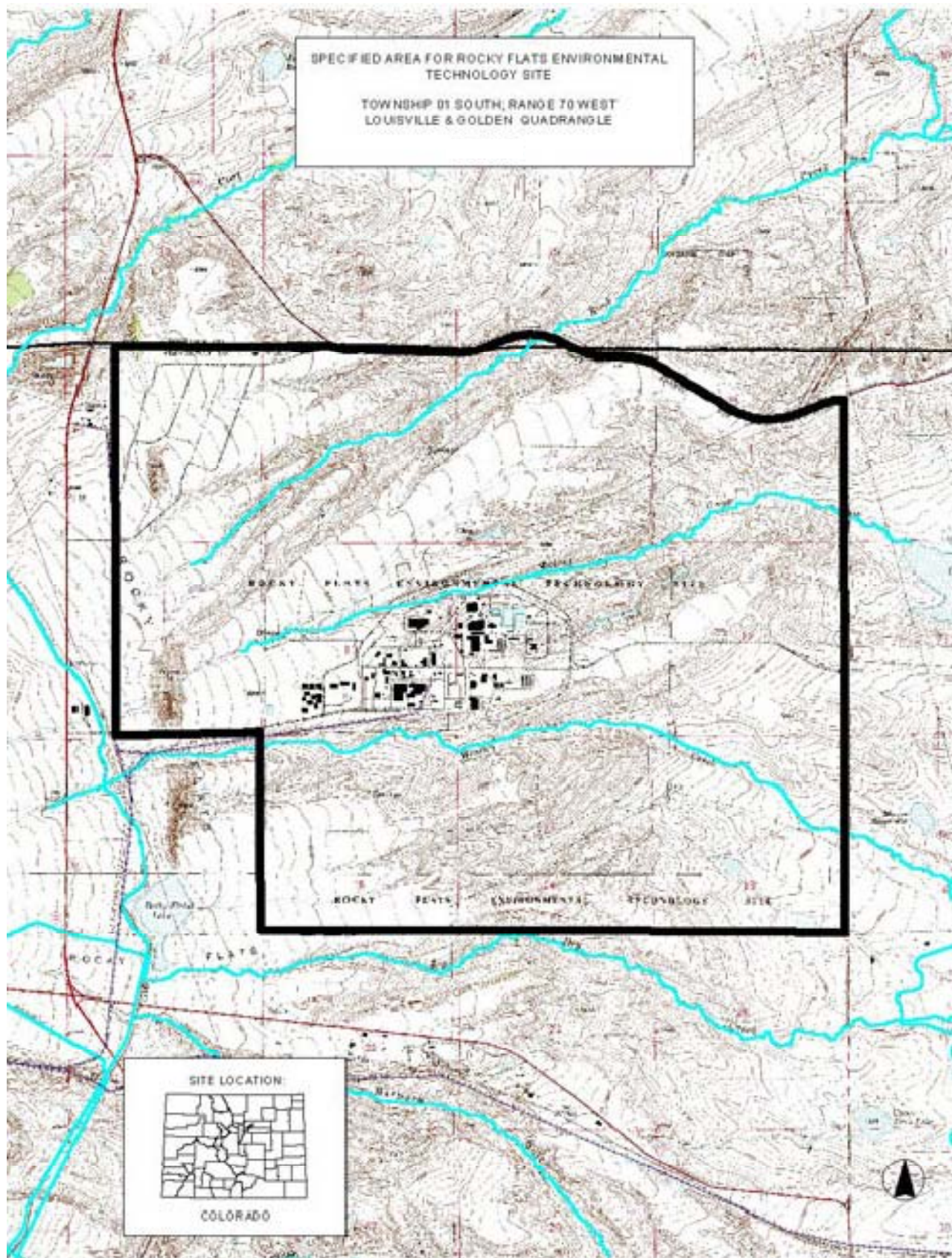


**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, JACKSON COUNTY, COLORADO**

SECTIONS 3-10, T8N, R81W;  
SECTIONS 20-22, 27-29, 32-34, T9N, R81W

Source: WQCC 2006

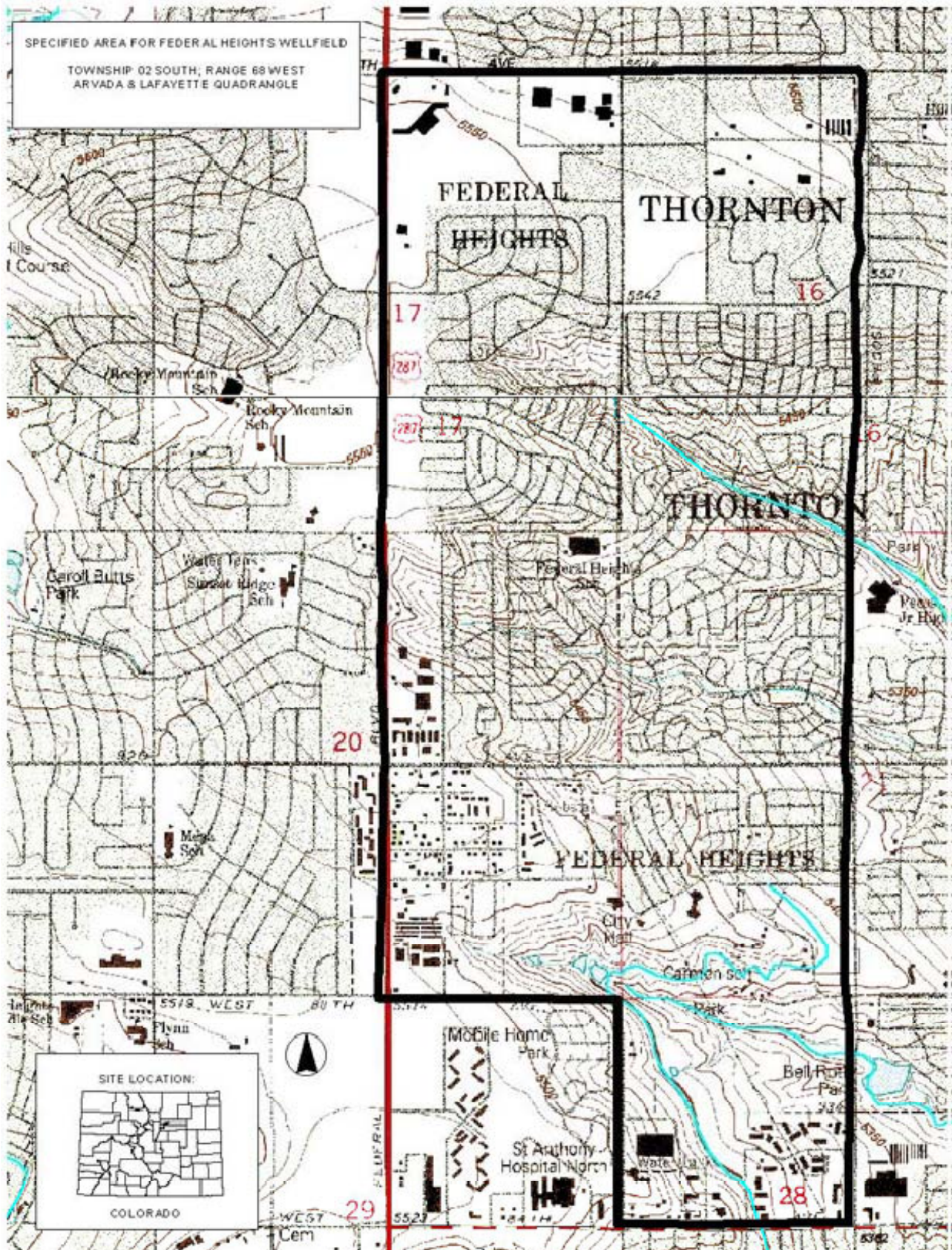
Exhibit 11-38. Upper South Platte River Sub-Basin; Rocky Flats Area, Jefferson and Boulder Counties



Source: WQCC 2006



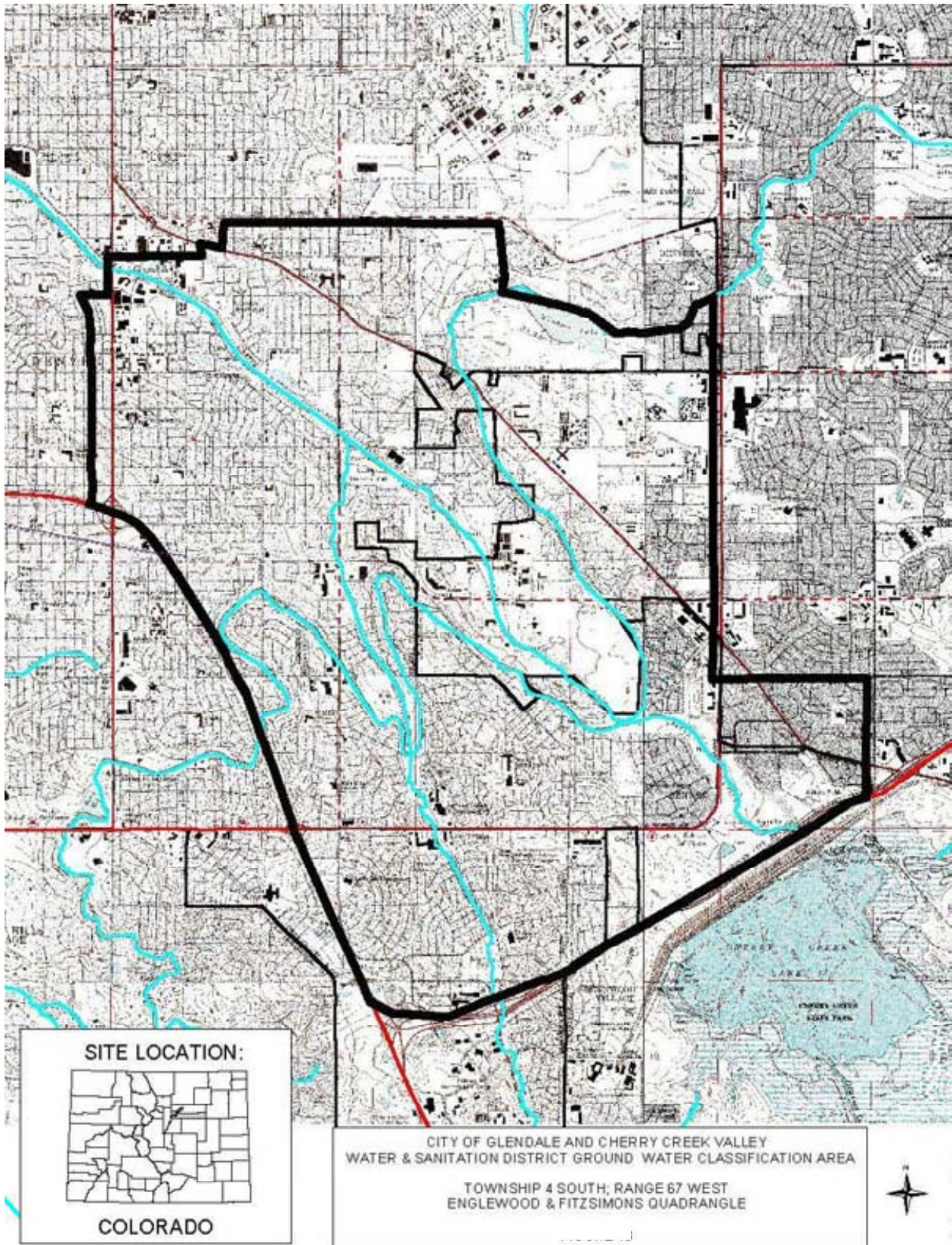
Exhibit 11-39. Upper South Platte River Sub-Basin; Federal Heights Water District Wellfield, Adams County



Source: WQCC 2006



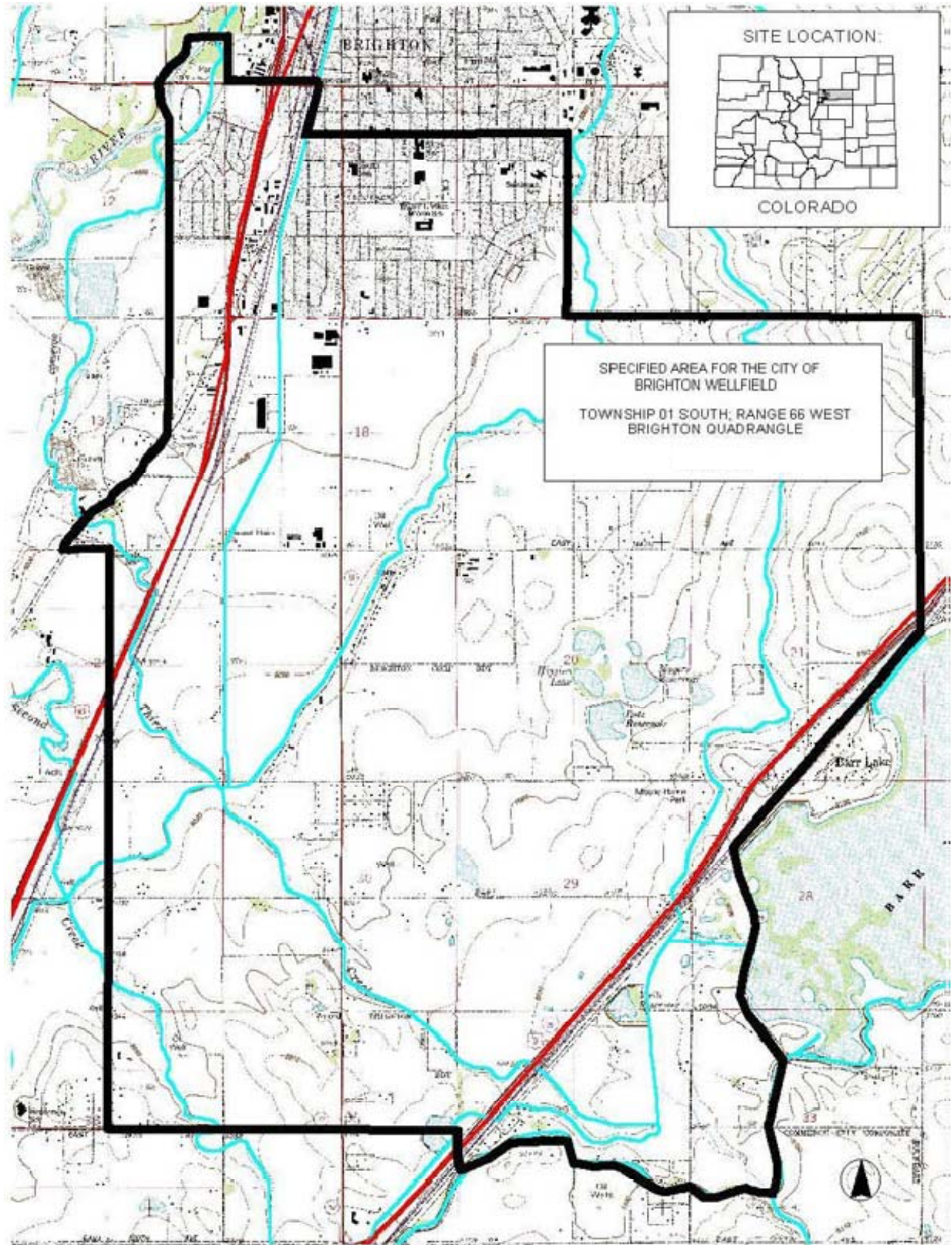
**Exhibit 11-40. Upper South Platte River Sub-Basin; City Of Glendale and Cherry Creek Valley Water and Sanitation District Ground Water Classification Area, Arapahoe County**



Source: WQCC 2006



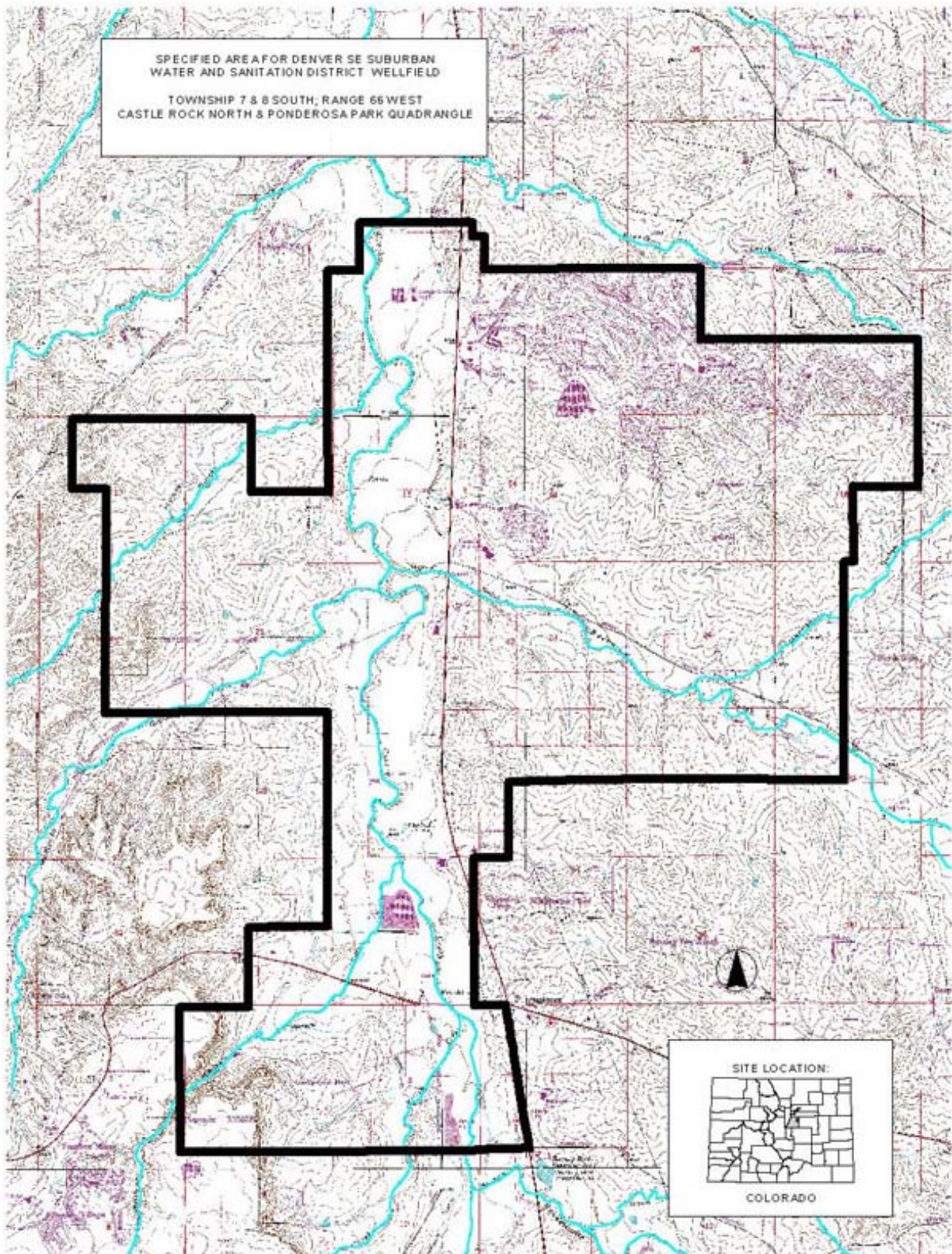
Exhibit 11-41. Upper South Platte River Sub-Basin; City Of Brighton Wellfield, Adams County



Source: WQCC 2006



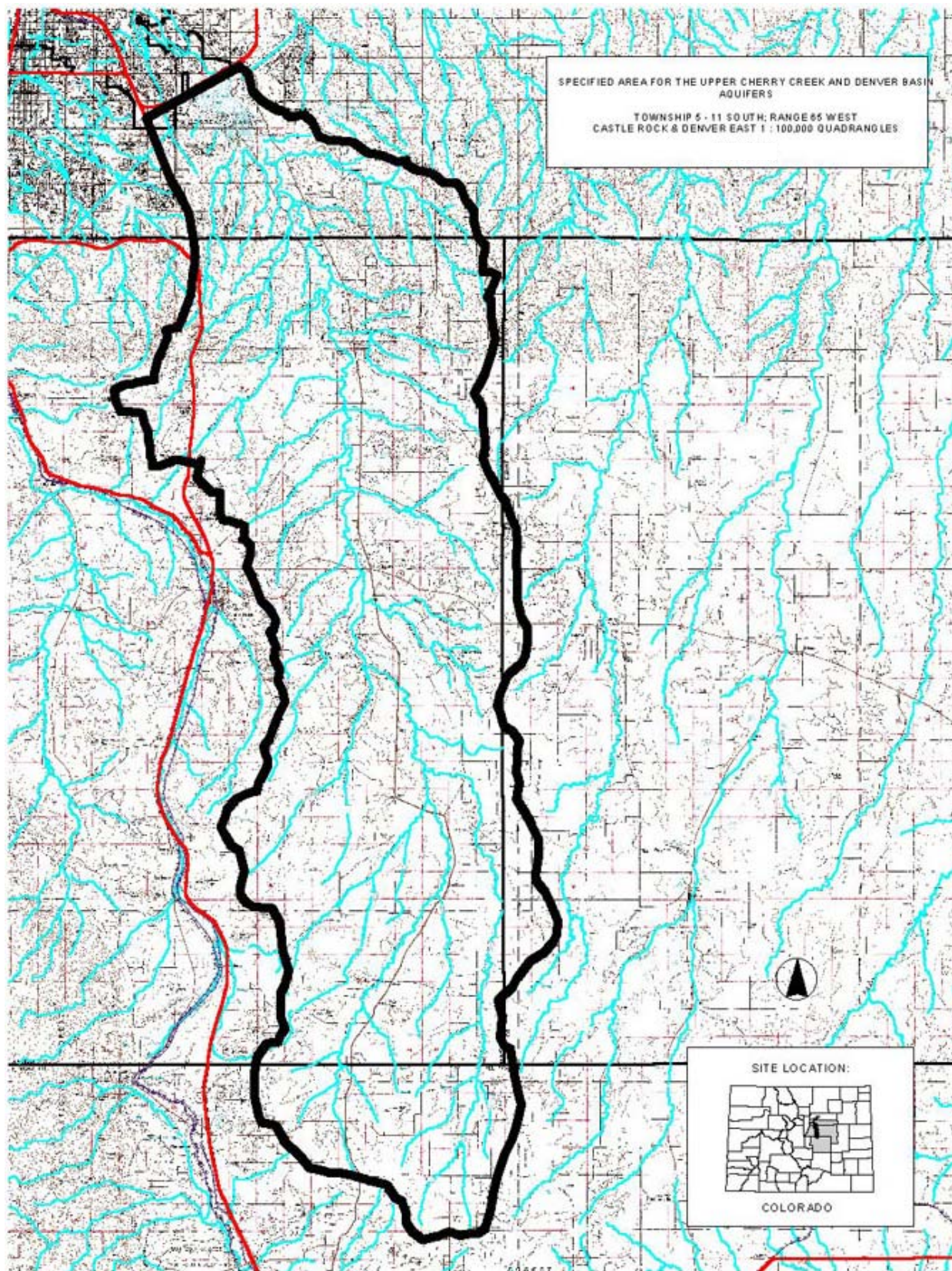
Exhibit 11-42. Upper South Platte River Sub-Basin; Denver Southeast Suburban Water and Sanitation District Wellfield, Douglas County



Source: WQCC 2006



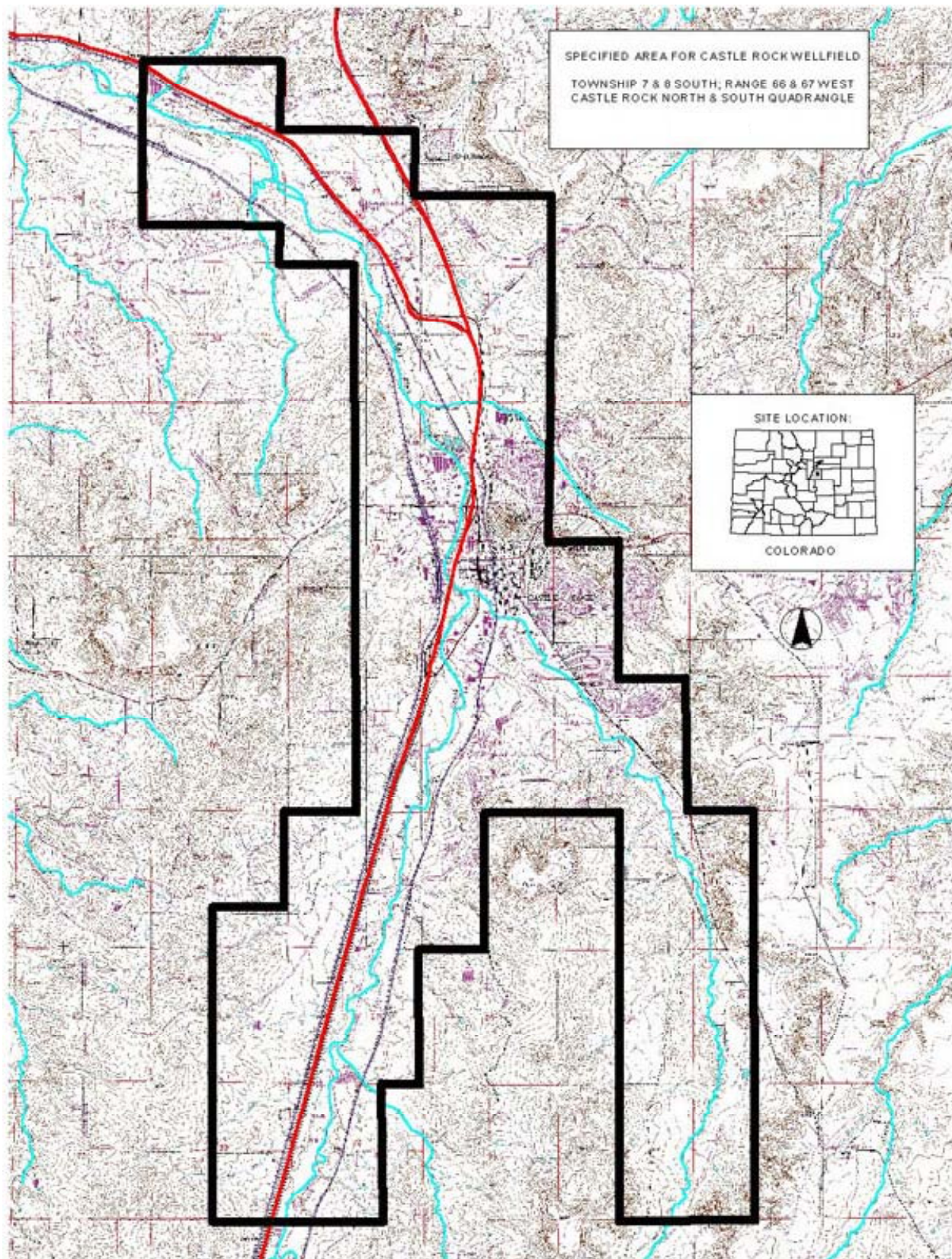
Exhibit 11-43. Upper South Platte River Sub-Basin; Upper Cherry Creek Basin and Denver Basin Alluvial Aquifers and Tributaries, Portions of El Paso, Douglas and Arapahoe Counties



Source: WQCC 2006



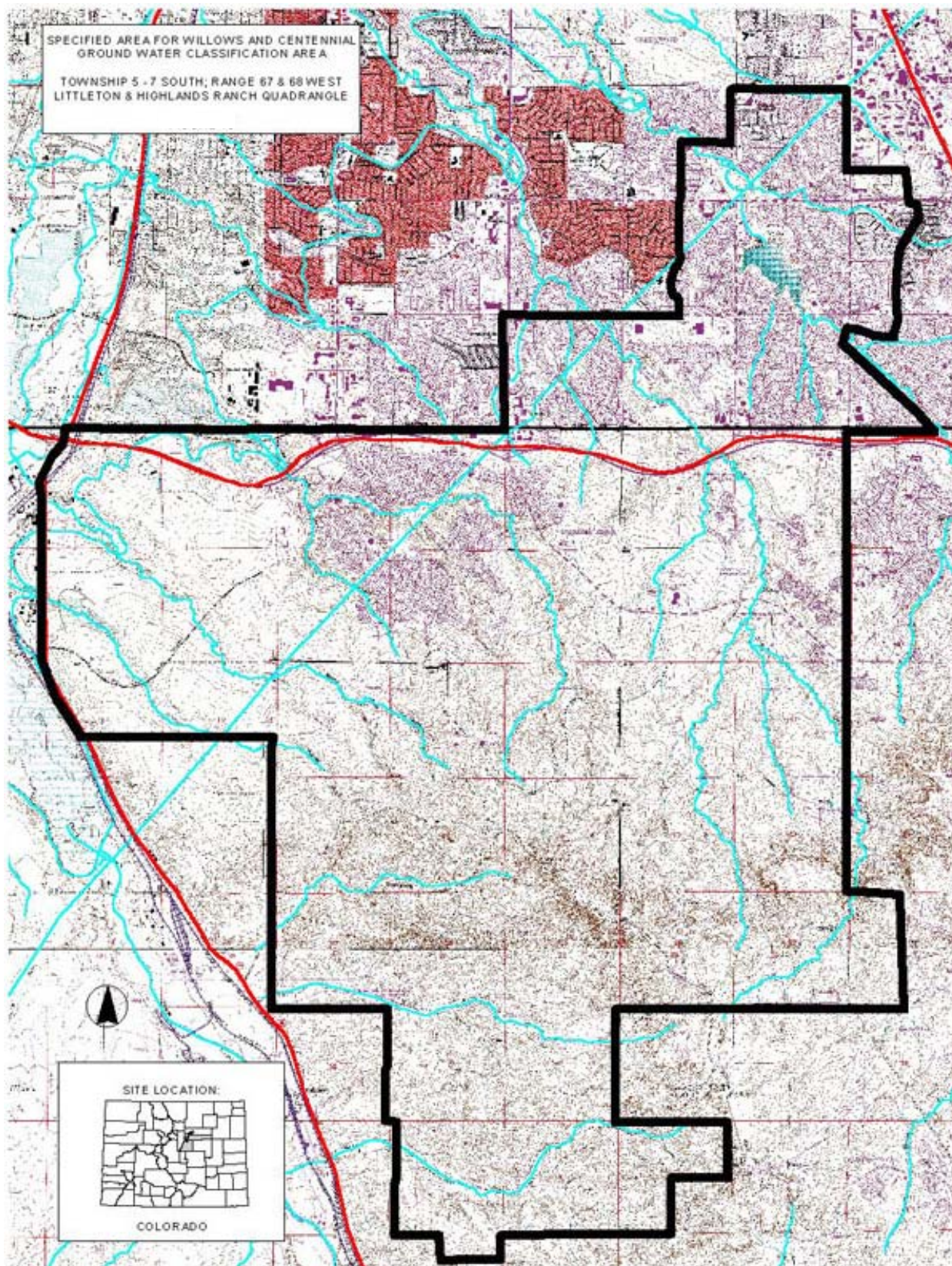
Exhibit 11-44. Upper South Platte River Sub-Basin; Town Of Castle Rock Wellfield, Douglas County



Source: WQCC 2006



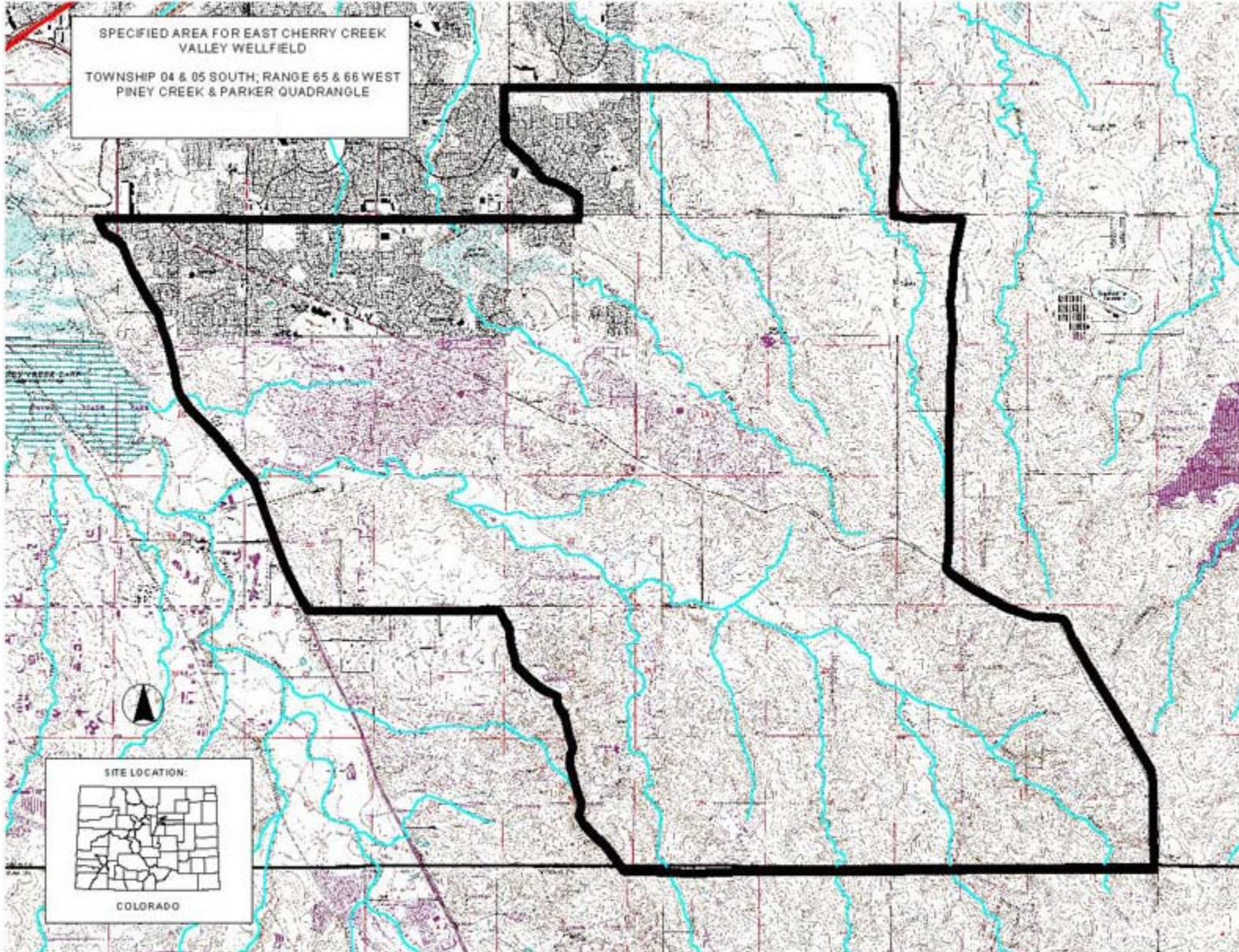
Exhibit 11-45. Upper South Platte River Sub-Basin;  
Willows and Centennial Ground Water Classification Area, Arapahoe and Douglas Counties



Source: WQCC 2006



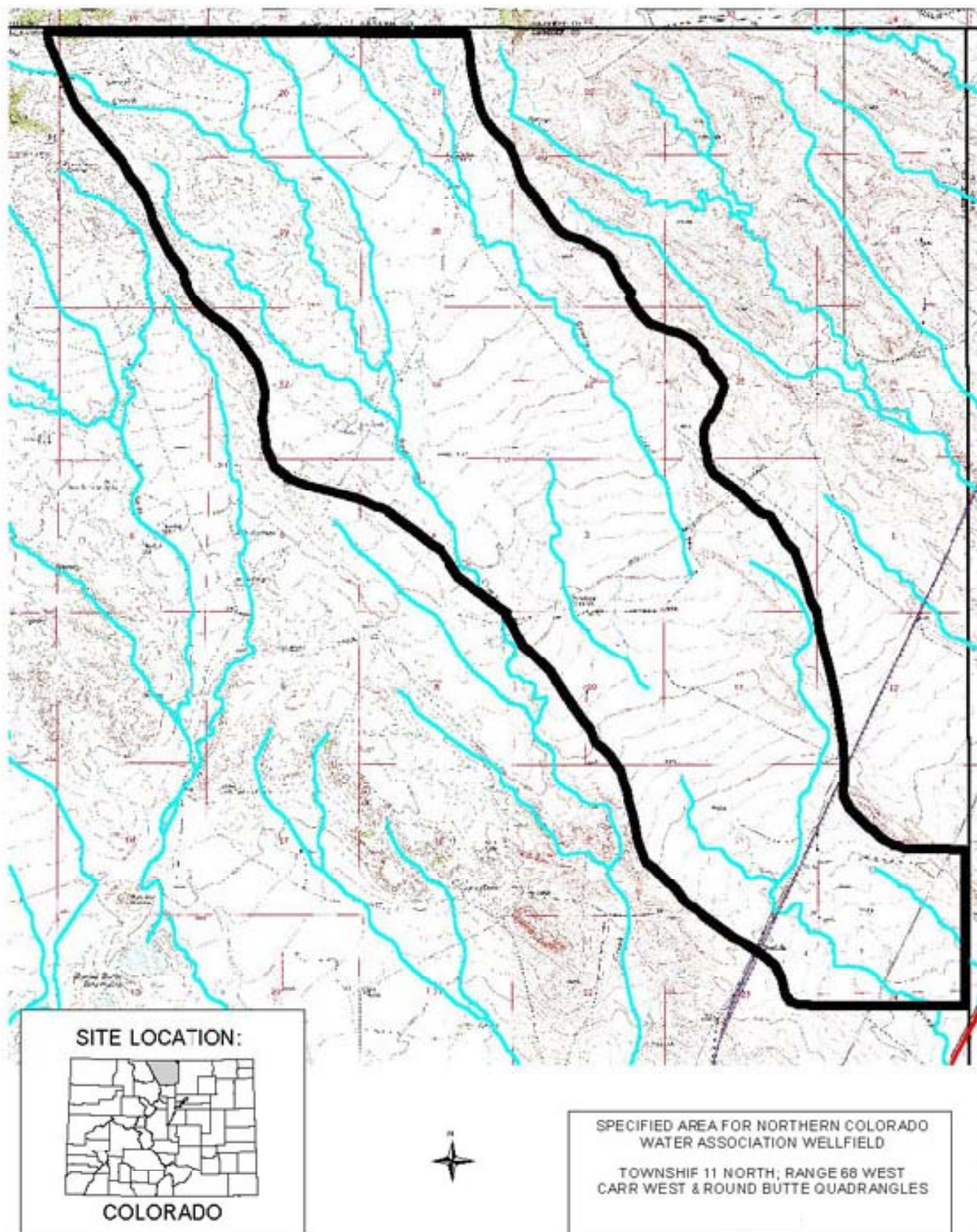
Exhibit 11-46. Upper South Platte River Sub-Basin; East Cherry Creek Valley Water and Sanitation District, Arapahoe County



Source: WQCC 2006



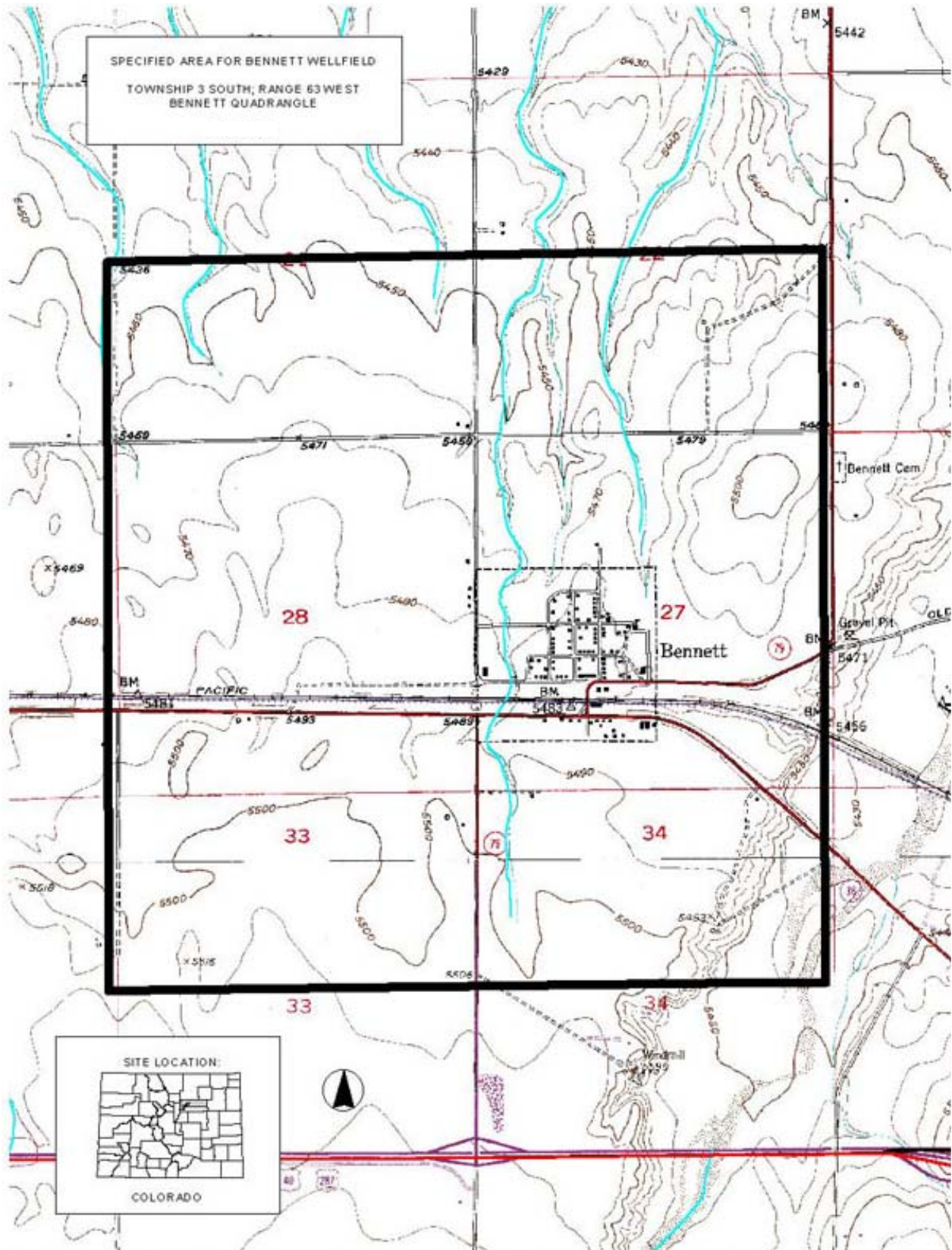
Exhibit 11-47. Middle South Platte River Sub-Basin Northern Colorado Water Association Wellfield, Larimer County



Source: WQCC 2006



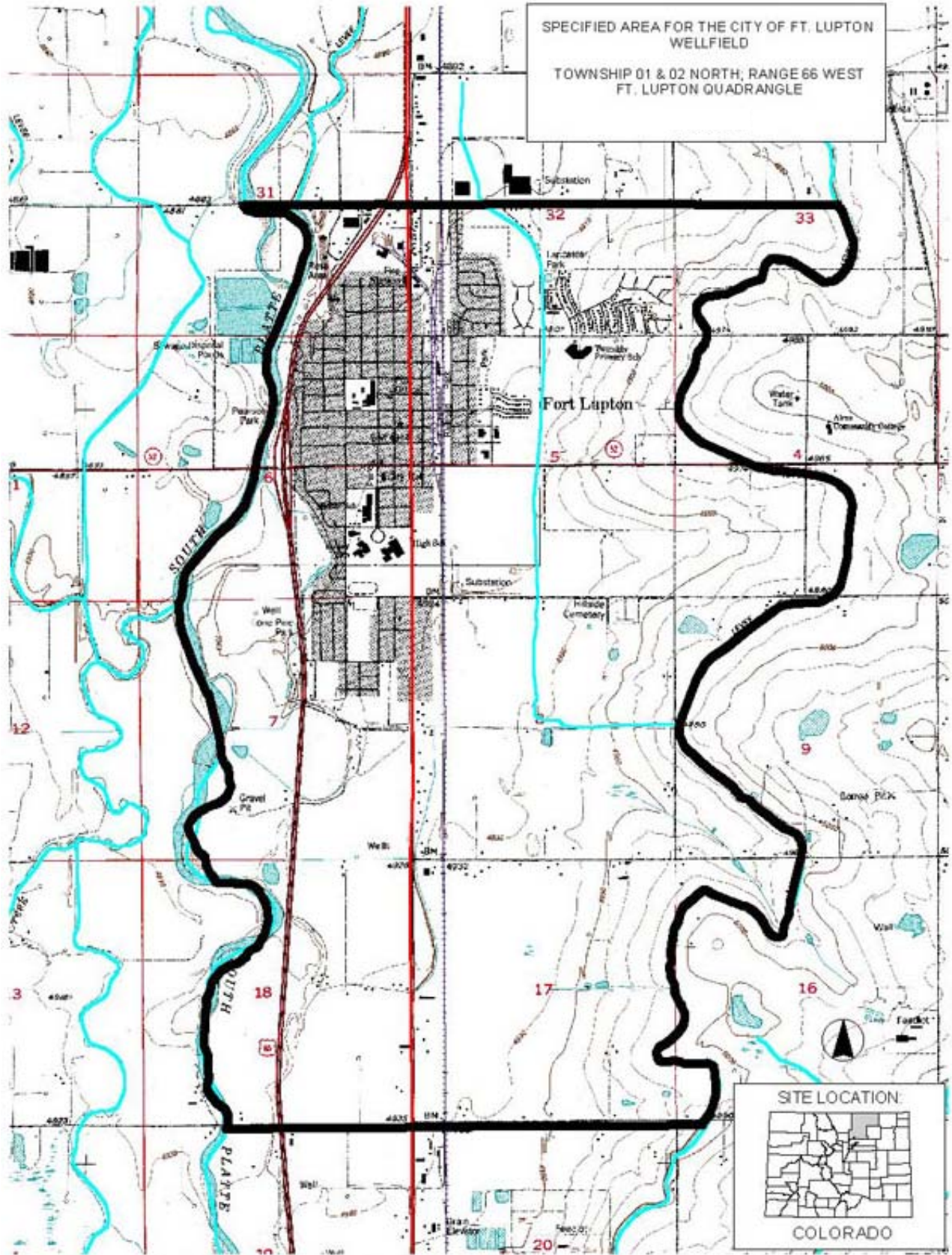
Exhibit 11-48. Middle South Platte River Sub-Basin;  
Town Of Bennett Wellfield, Adams County



Source: WQCC 2006

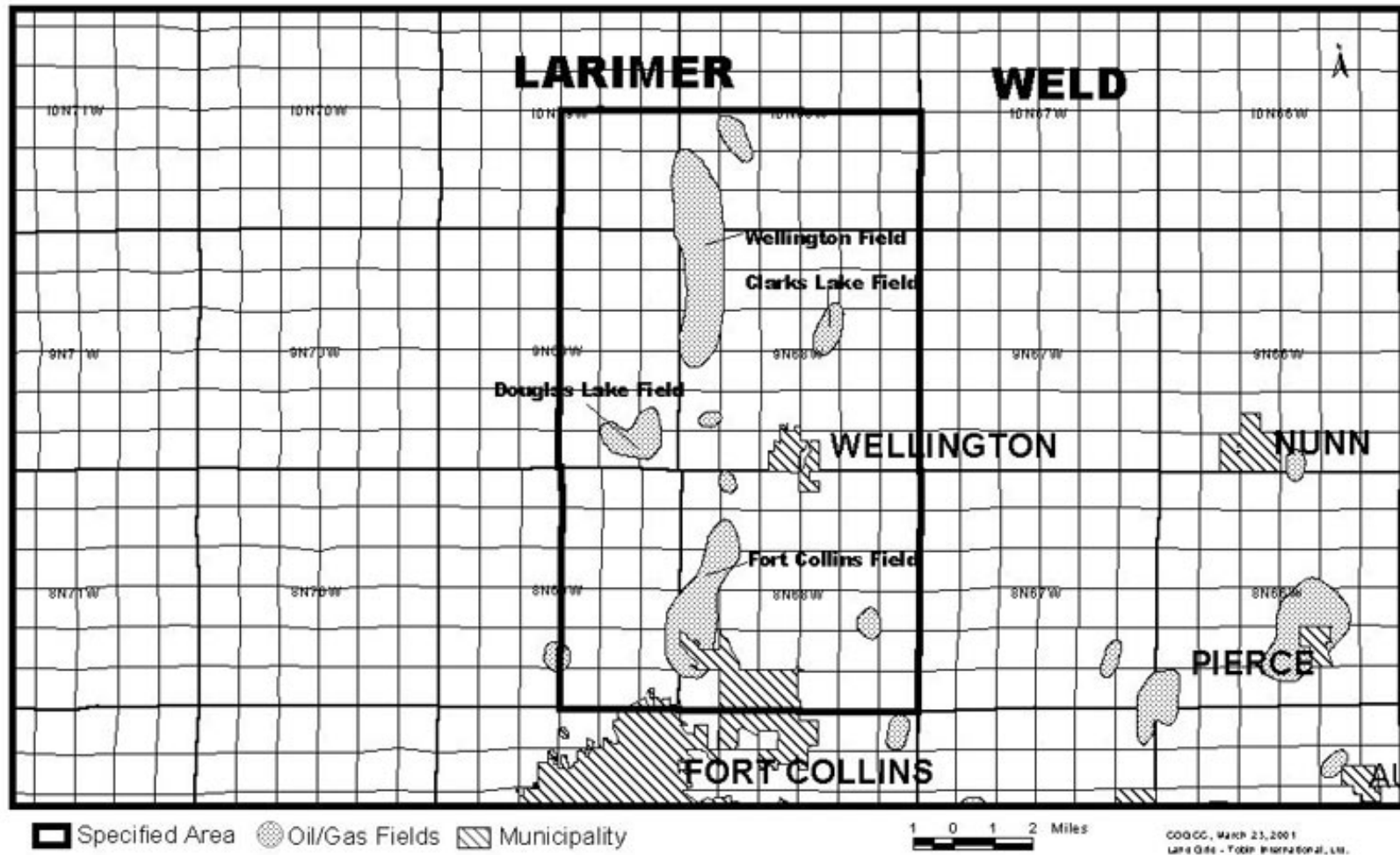


Exhibit 11-49. Middle South Platte River Sub-Basin; City of Fort Lupton Wellfield, Weld County



Source: WQCC 2006

Exhibit 11-50. Middle South Platte Colorado; Oil and Gas Fields of Eastern Larimer County, Colorado



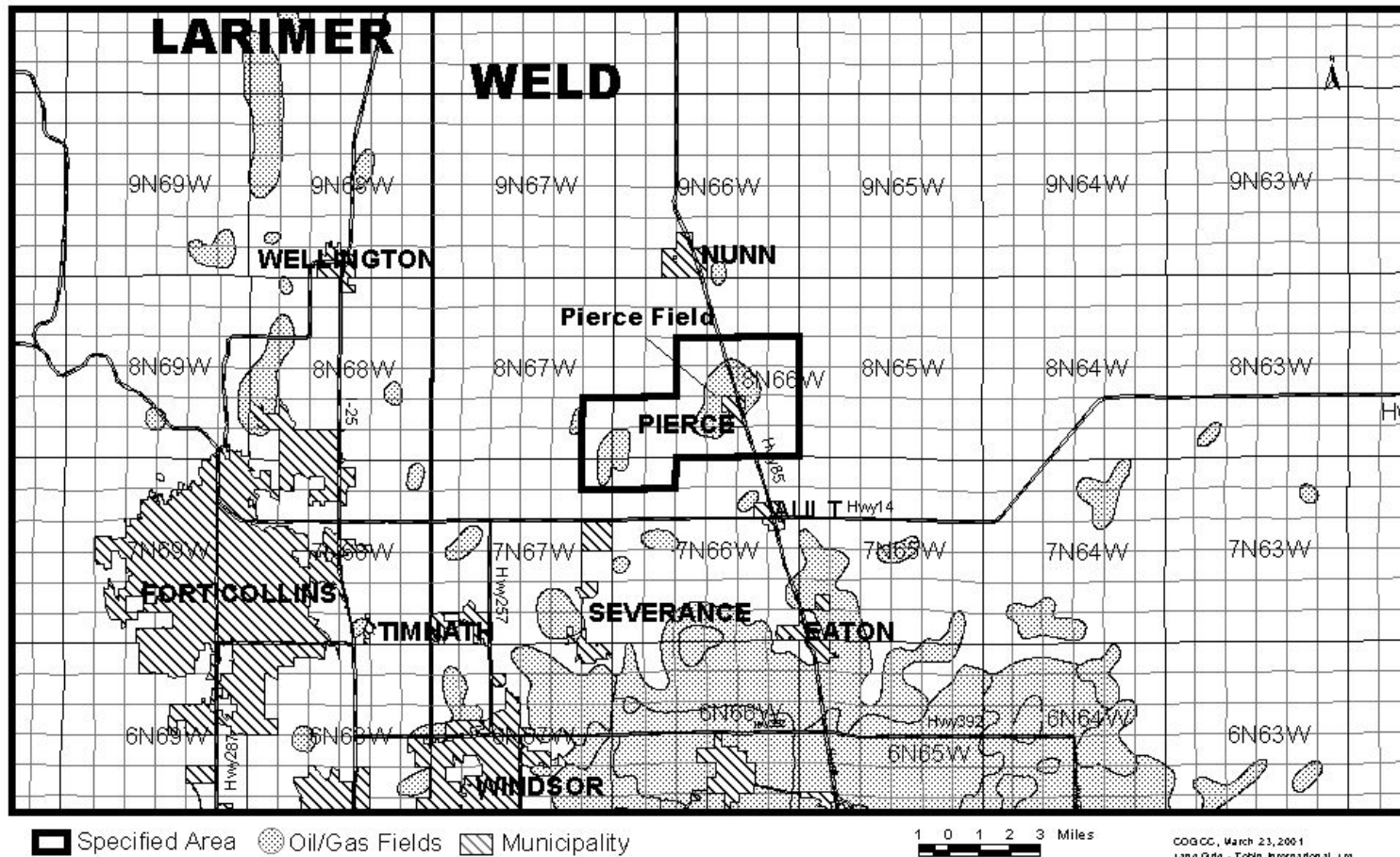
**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, LARIMER COUNTY, COLORADO**

ALL OF T8N, R68W; E/2 OF T8N, R69W;  
 ALL OF T9N, R68W; E/2 OF T9N, R69W;  
 S/2 OF T10N, R68W; SE/4 OF T10N, R69W

Source: WQCC 2006



Exhibit 11-50a. Middle South Platte Colorado; Oil and Gas Fields of Western Weld County, Colorado

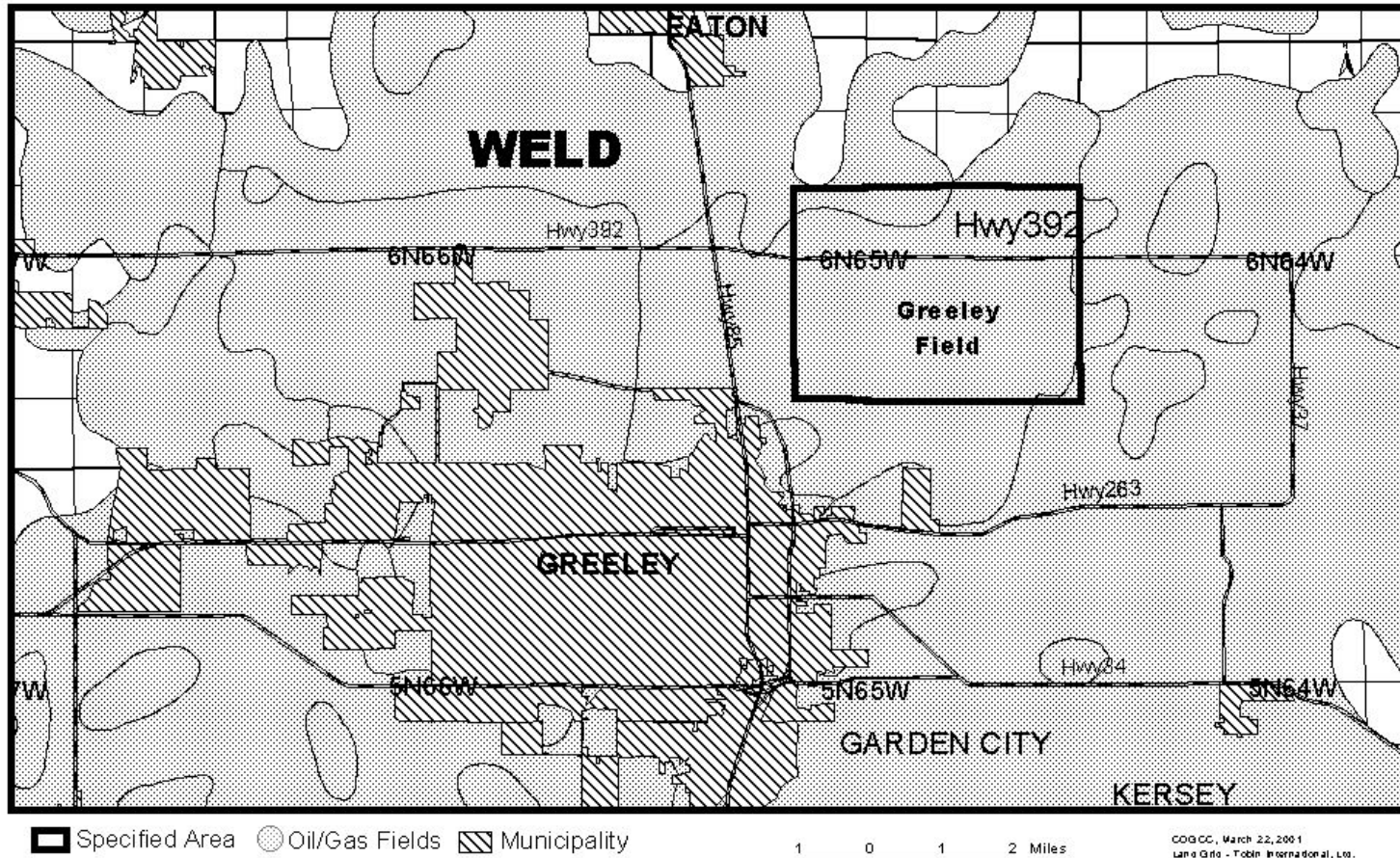


**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, WELD CO.**

Sections 5-6, T7N, R66W;  
 Section 1, T7N, R67W;  
 Sections 13-16 and 21-36, T8N, R66W;  
 Sections 25 and 36, T8N, R67W

Source: WQCC 2006

Exhibit 11-50b. Middle South Platte Colorado; Oil and Gas Fields of Central Weld County, Colorado



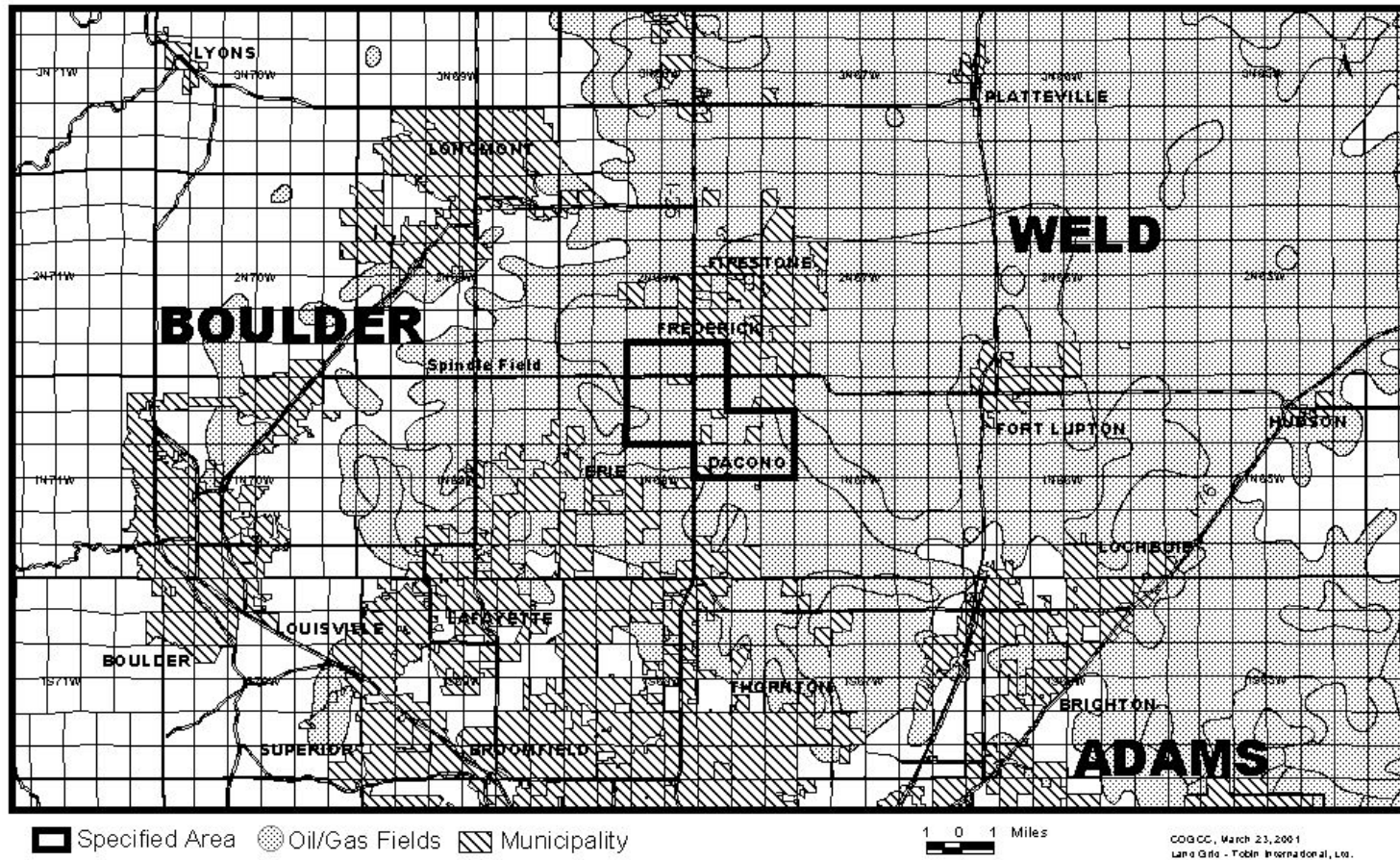
**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, WELD CO.**

Sections 13-16 and 21-28, T6N, R65W

Source: WQCC 2006



Exhibit 11-50c. Middle South Platte Colorado; Oil and Gas Fields of Southwestern Weld County, Colorado

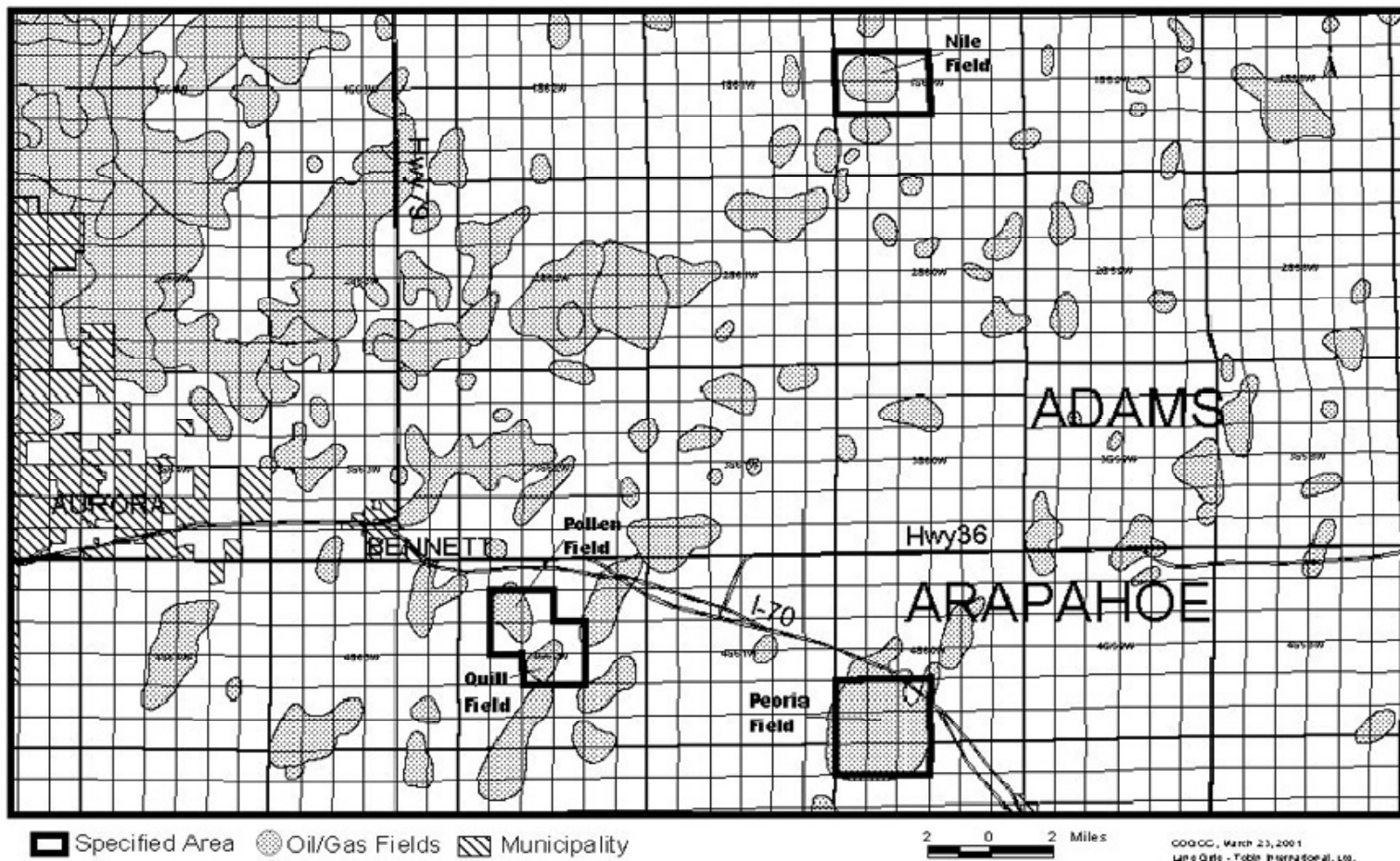


**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, WELD CO.**

Sections 7 and 18, T1N, R67W;  
 Sections 2-4 and 9-14, T1N, R68W;  
 Sections 33-35, T2N, R68W

Source: WQCC 2006

Exhibit 11-51. Middle South Platte River Sub-Basin (Adams and Arapahoe Counties); Oil and Gas Fields of Adams, Arapahoe, Morgan, Washington, and Weld Counties, Colorado



**SPECIFIED AREA FOR COLORADO  
OIL AND GAS FIELDS, ADAMS CO.**

Sections 16-21, T1 S, R60W

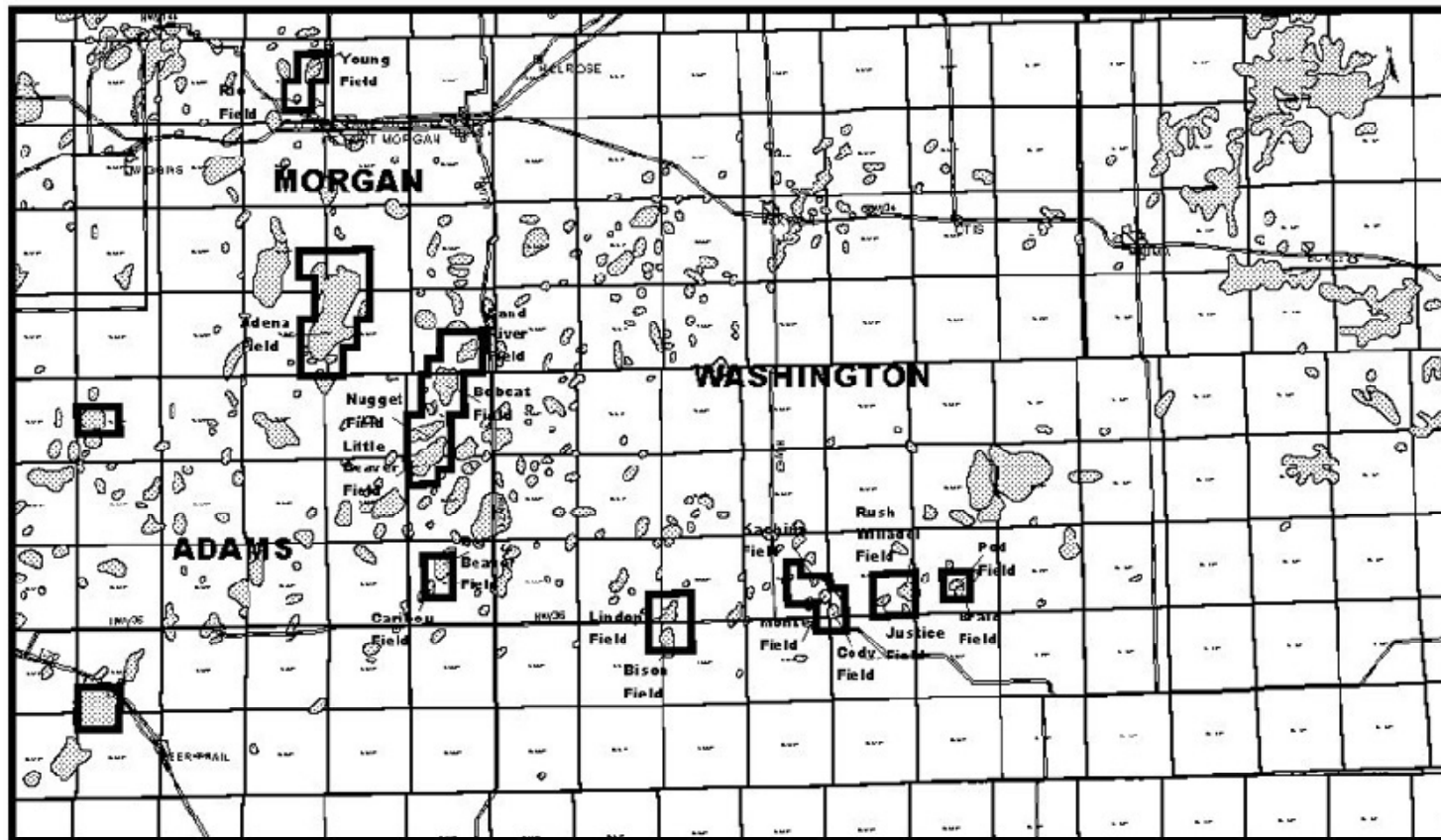
**SPECIFIED AREA FOR COLORADO  
OIL AND GAS FIELDS, ARAPAHOE CO.**

Sections 27-29 and 32-34, T4S, R60W;  
Sections 4-6, T5S, R60W;  
Sections 8-9, 15-17, and 21-22, T4S, R62W

Source: WQCC 2006



Exhibit 11-52. Middle South Platte River Sub-Basin (Morgan, Adams, and Washington Counties); Oil And Gas Fields of Adams, Arapahoe, Morgan, Washington, and Weld Counties, Colorado



Specified Area
  Oil/Gas Fields
  Municipality

6
0
6
 Miles
 COGCC, March 23, 2001  
Lane Geo - Tobin International, Ltd.

**SPECIFIED AREA FOR COLORADO  
OIL AND GAS FIELDS, MORGAN CO.**

Sections 21-23, 26-28, and 32-35, T1N, R56W;  
 Sections 4-9, 17-20, and 30-31, T1N, R57W;  
 Sections 1, 12-14, 23-26, and 35-36, T1N, R58W;  
 Sections 19-21, and 28-33, T2N, R57W;  
 Sections 23-26, and 36, T2N, R58W;  
 Sections 11-14, 22-23, and 26-27, T4N, R58W

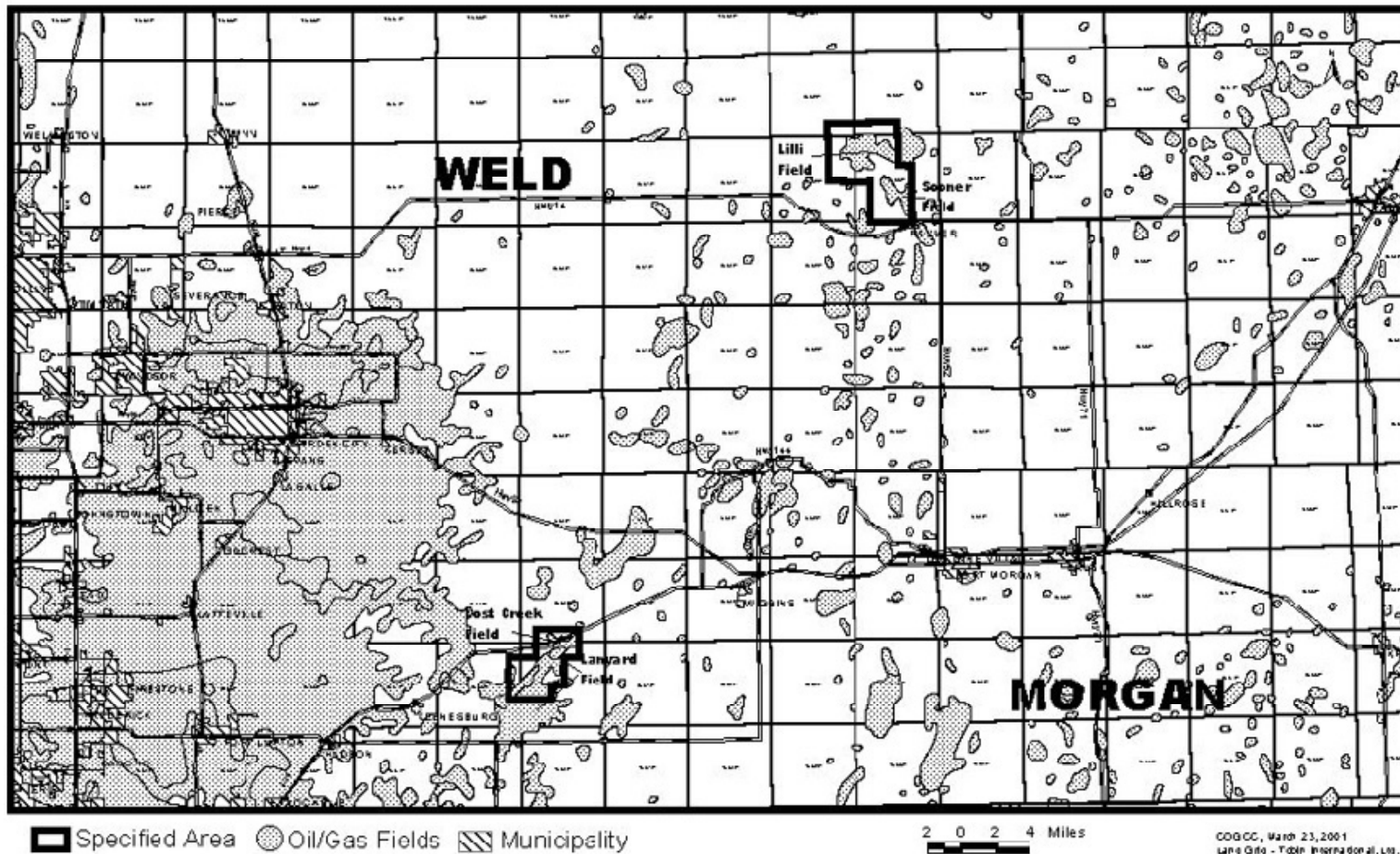
**SPECIFIED AREA FOR COLORADO  
OIL AND GAS FIELDS, WASHINGTON CO.**

Sections 3-5, 8-10, 15-17, 19-21,  
 and 28-33, T1S, R56W;  
 Sections 4-8, T2S, R56W;  
 Sections 21-22 and 27-28, T3S, R50W;  
 Sections 22-27, and 34-36, T3S, R51W;  
 Sections 30-31, T3S, R51W;  
 Sections 15, 22-27, and 36, T3S, R52W

Sections 29-32, T3S, R53W;  
 Sections 25 and 36, T3S, R54W;  
 Sections 8-9, 16-17, and 20-21, T3S, R56W;  
 Section 6, T4S, R51W;  
 Section 1, T4S, R52W;  
 Sections 6-8, 14S, R53W;  
 Sections 1 and 12, T4S, R54W

Source: WQCC 2006

Exhibit 11-53. Middle South Platte River Sub-Basin (Weld and Morgan Counties); Oil and Gas Fields of Adams, Arapahoe, Morgan, Washington, and Weld Counties, Colorado



**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS, WELD COUNTY**

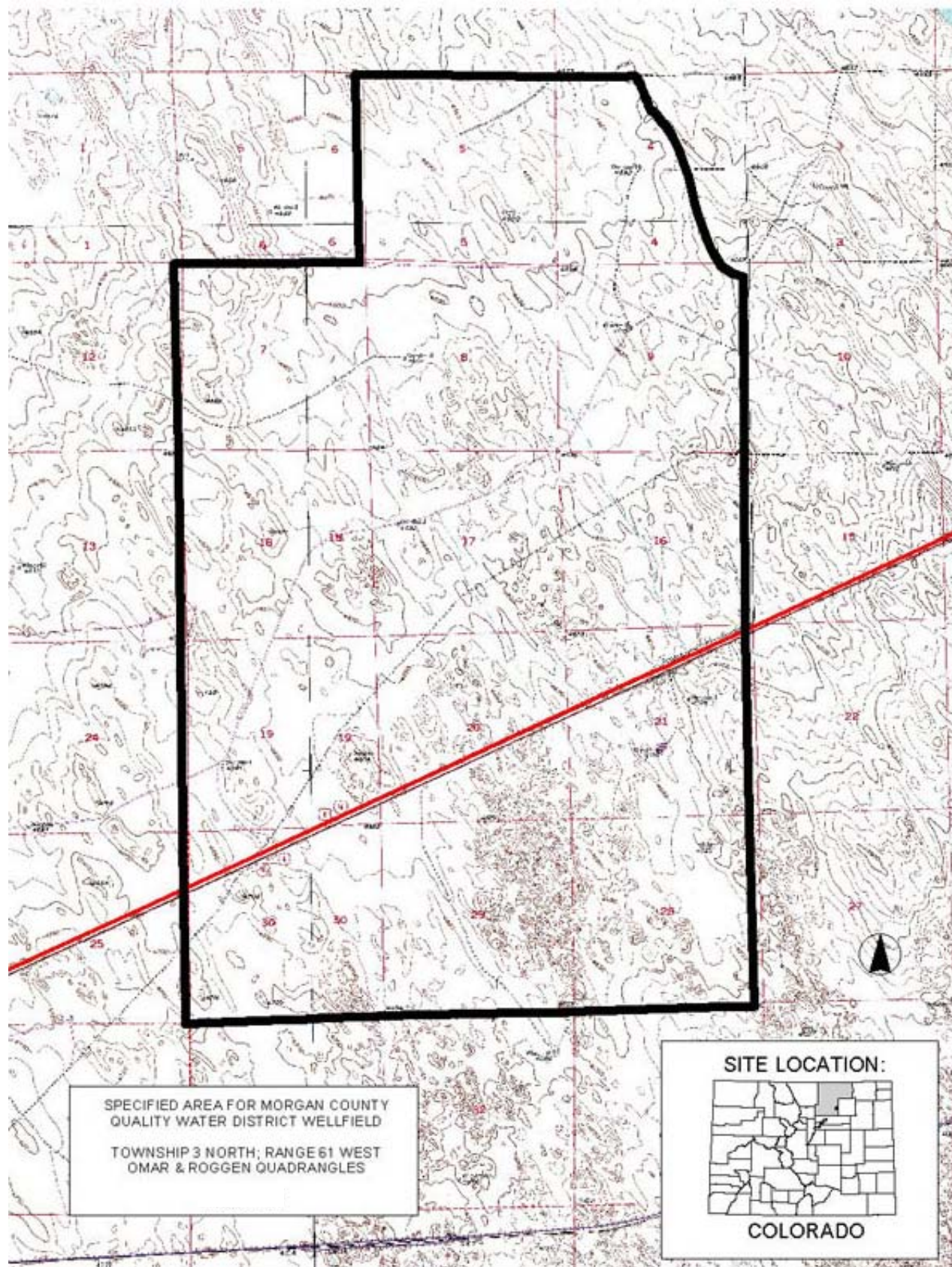
Sections 3-5, 7-9, and 16-20, T2N, R62W;  
 Sections 12-13 and 24, T2N, R63W;  
 Sections 32-34, T3N, R62W;  
 Sections 4-9, 15-18, 20-22, 27-29, and 32-34, T8N, R58W

Sections 1-2 and 11-14, T8N, R59W;  
 Sections 31-33, T9N, R58W;  
 Sections 35-36, T9N, R59W

Source: WQCC 2006



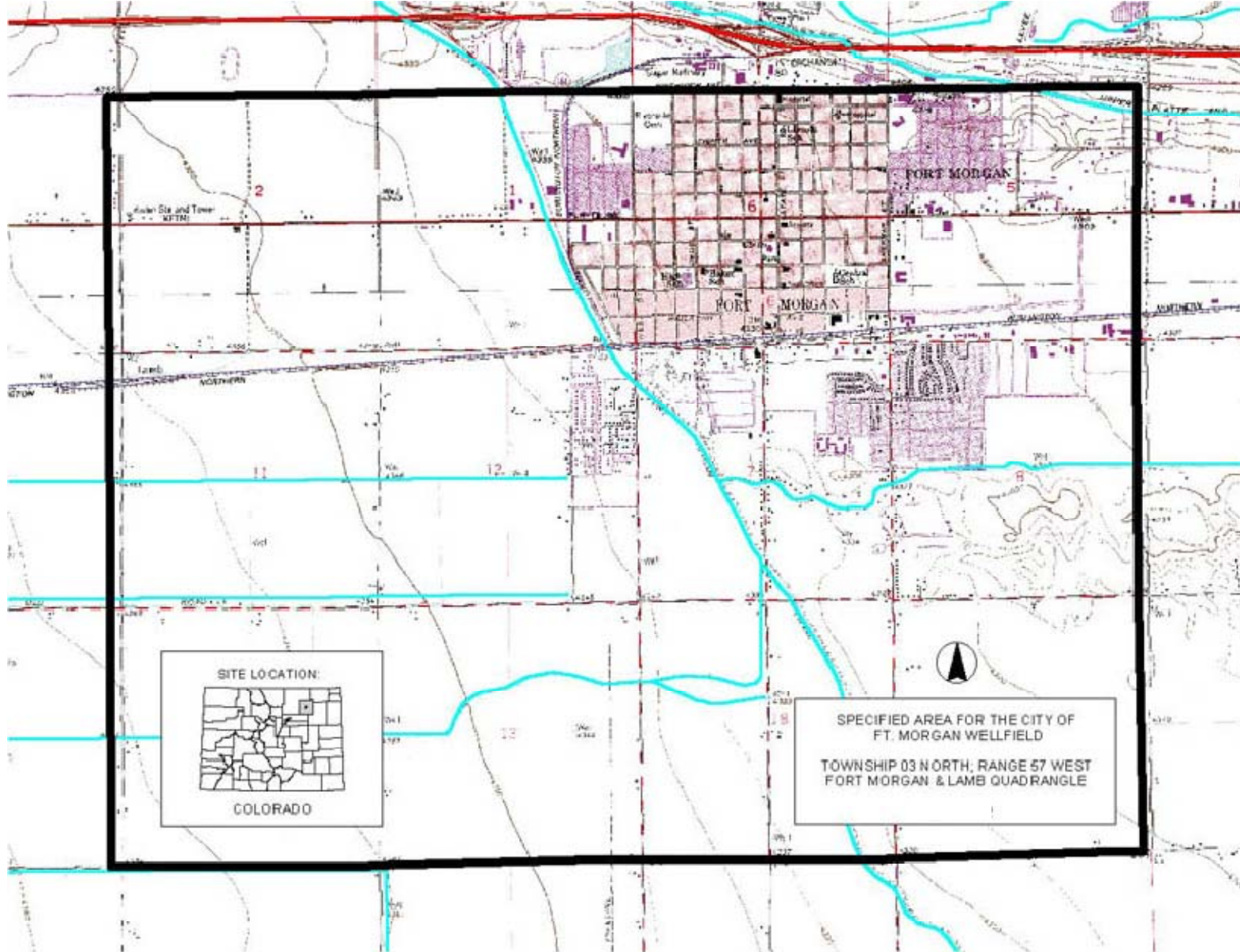
Exhibit 11-54. Lower South Platte River Sub-Basin; Morgan County Quality Water District Wellfield, Morgan County



Source: WQCC 2006

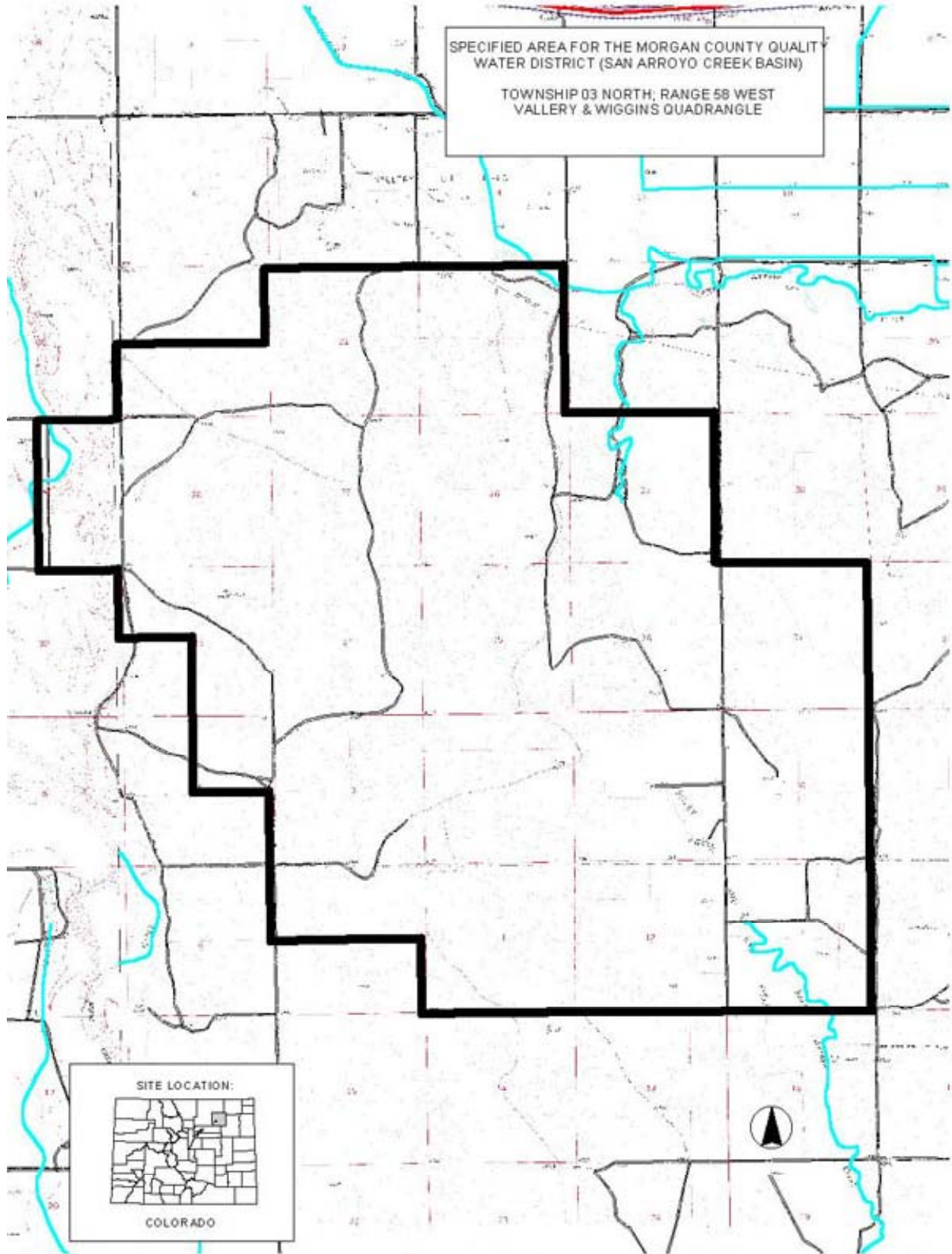


Exhibit 11-55. Lower South Platte River Sub-Basin; City of Fort Morgan Wellfield, Morgan County



Source: WQCC 2006

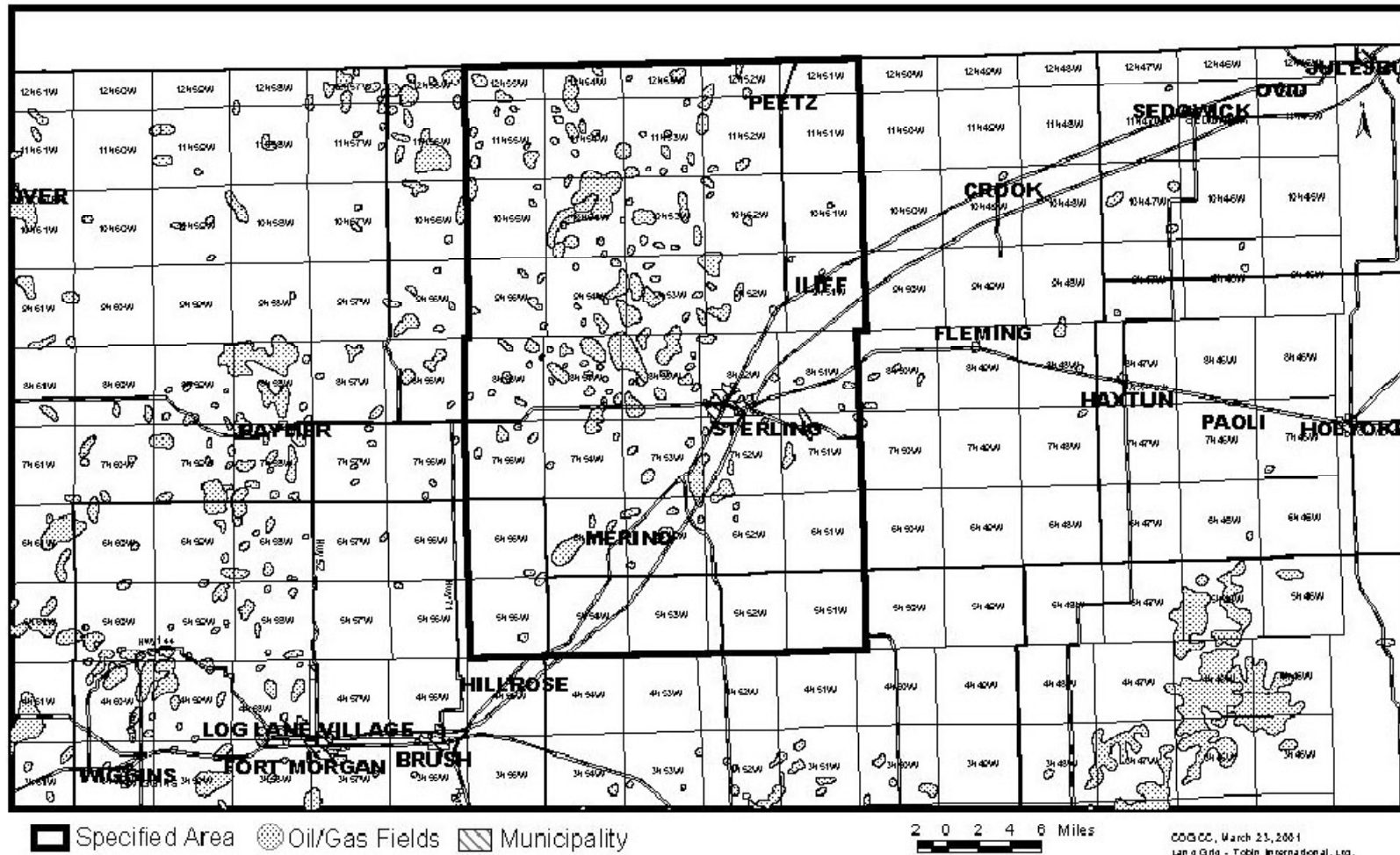
**Exhibit 11-56. Lower South Platte River Sub-Basin;  
Morgan County Quality Water District, (San Arroyo Creek Basin), Morgan County**



Source: WQCC 2006



**Exhibit 11-57. Lower South Platte River Sub-Basin;  
Colorado Oil and Gas Fields of Logan, Northern Washington, and Northeastern Morgan Counties**

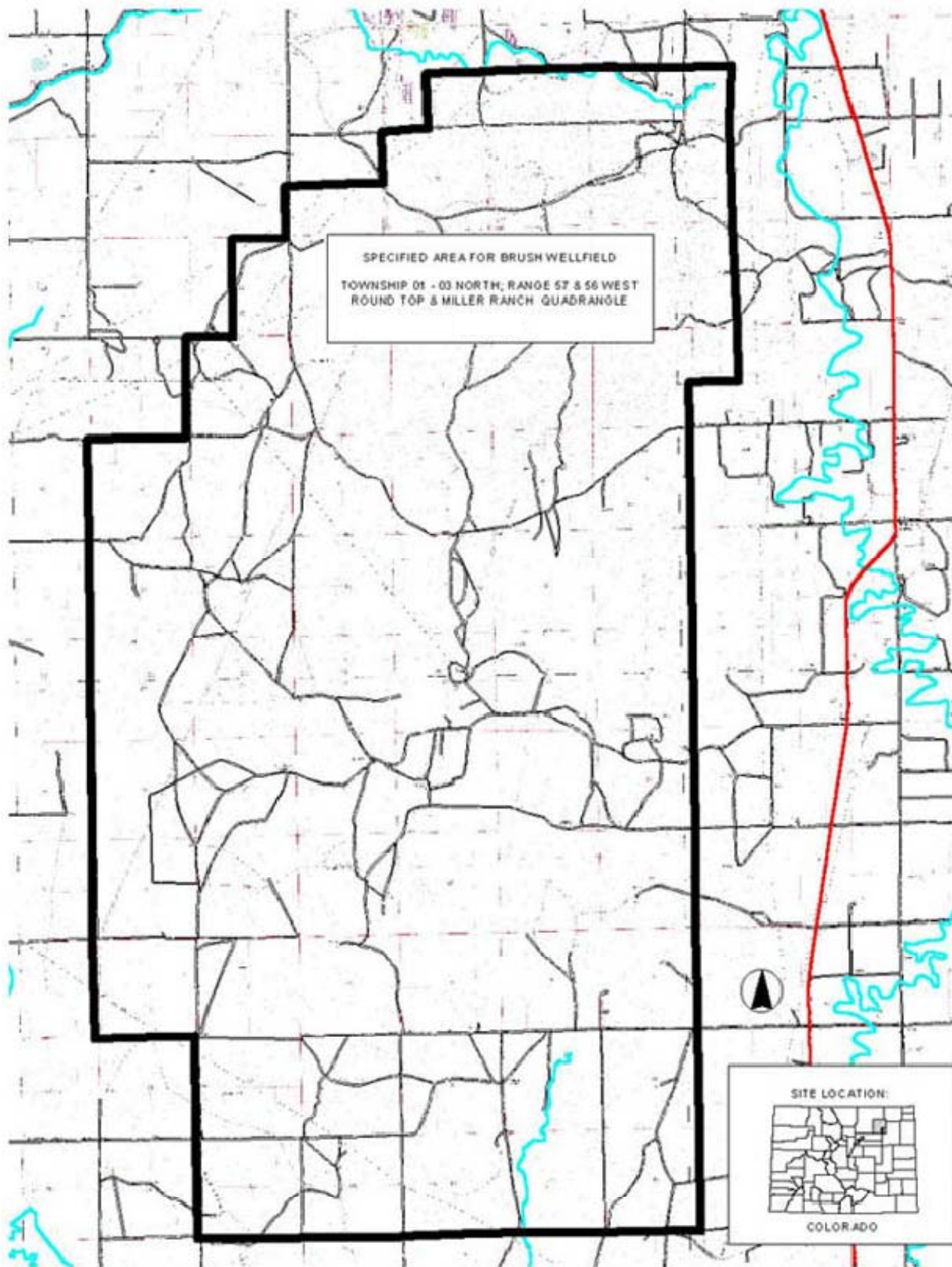


**SPECIFIED AREA FOR COLORADO OIL AND GAS FIELDS  
LOGAN, N WASHINGTON, AND NE MORGAN COUNTIES, CO**

ALL OF T5N THROUGH T12N AND R51W THROUGH R55W

Source: WQCC 2006

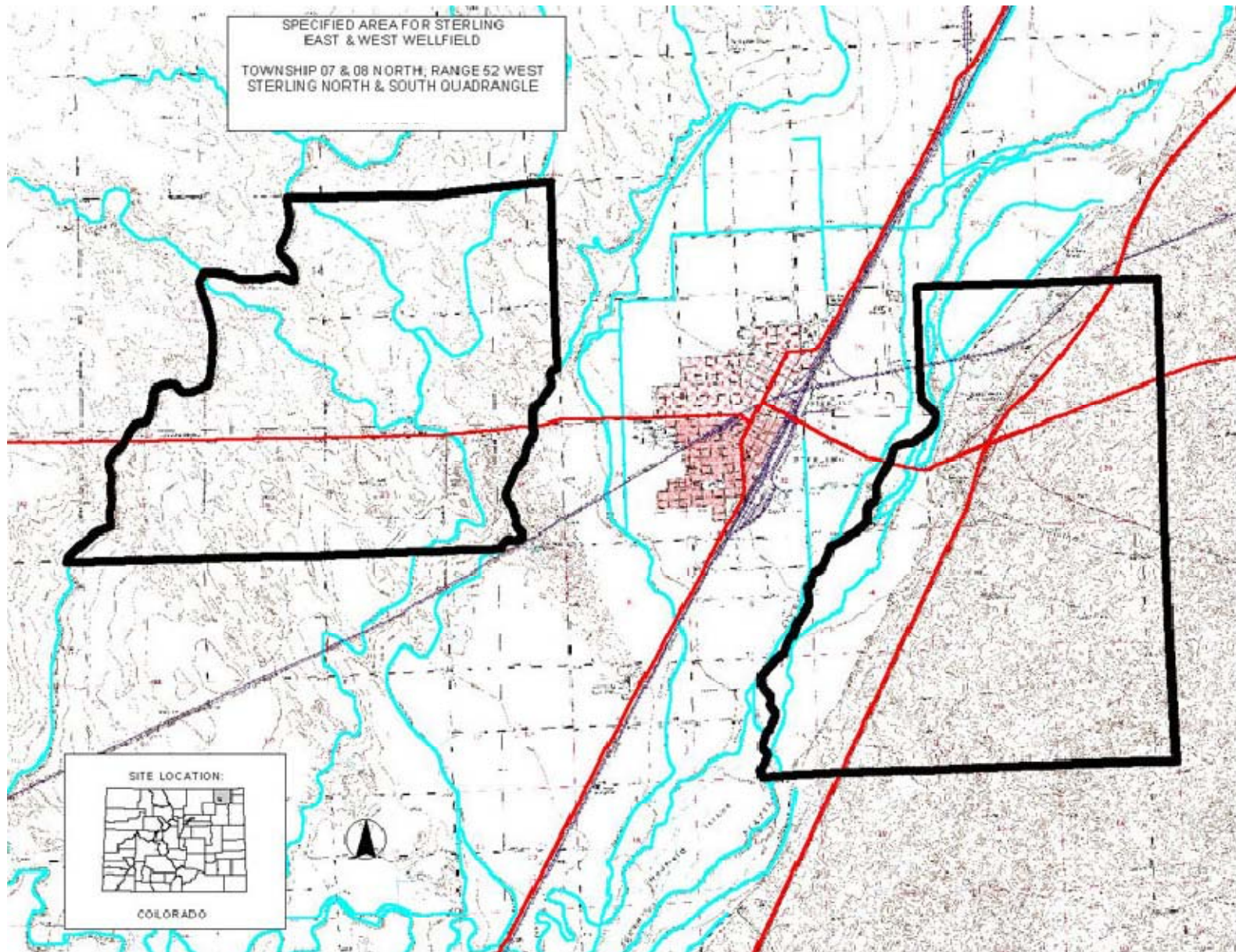
Exhibit 11-58. Lower South Platte River Sub-Basin; City of Brush Wellfield, Morgan County



Source: WQCC 2006



Exhibit 11-59. Lower South Platte River Sub-Basin; City of Sterling Wellfield, Logan County



Source: WQCC 2006

Exhibit 11-60. Platte River Basin Impaired Stream Segments

Number of Impaired Segments	Total Stream Miles Impaired	Use Categories Not Being Attained (Percent of Classified Uses by Category Basin Wide)						Parameters (number of impacted segments)
		Aquatic Life Cold Water (n=121)	Aquatic Life Warm Water (n=97)	Existing Recreation (n=189)	Not Suitable for Recreation (n=22)	Water Supply (n=165)	Agriculture (n=216)	
<b>North Platte (n=12 segments and 2,037.20 stream miles)</b>								
2	51.90	2 (2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	Iron (1) Dissolved Oxygen (1)
<b>Upper South Platte (n=142 segments and 5,059.23 stream miles)</b>								
41	11,037.55	26 (21%)	18 (19%)	14 (7%)	0 (0%)	2 (1%)	0 (0%)	E. coli (14) Cadmium (12) Copper (8) Selenium (7) Zinc (6) Arsenic (4) Organic Sediment (3) pH (3) Aquatic Life Use (2) Lead (2) Iron (1) Mercury (1) Ammonia (1) Temperature (1)
<b>Middle South Platte (n= 58 segments and 5,270.61 stream miles)</b>								
20	1,640.54	9 (7%)	13 (13%)	6 (3%)	0 (0%)	0 (0%)	0 (0%)	Selenium (10) Copper (7) E. coli (4) Temperature (3) Cadmium (2) Aquatic Life Use (1) Dissolved Oxygen (1) Lead (1) pH (1) Zinc (1)
<b>Lower South Platte (n= 6 segments and 6,222.66 stream miles)</b>								
2	366.80	0 (0%)	2 (2%)	1 (0.5%)	0 (0%)	0 (0%)	0 (0%)	Selenium (2) E. coli (1) Manganese (1)
<b>Basin-Wide (n= 218 segments and 18,589.70 stream miles)</b>								

Number of Impaired Segments	Total Stream Miles Impaired	Use Categories Not Being Attained <i>(Percent of Classified Uses by Category Basin Wide)</i>						Parameters (number of impacted segments)
		Aquatic Life Cold Water (n=121)	Aquatic Life Warm Water (n=97)	Existing Recreation (n=189)	Not Suitable for Recreation (n=22)	Water Supply (n=165)	Agriculture (n=216)	
65	13,096.79	37 (31%)	33 (34%)	21 (11%)	0 (0%)	2 (1%)	0 (0%)	E. coli (19) Selenium (19) Copper (15) Cadmium (14) Zinc (7) Arsenic (4) pH (4) Temperature (4) Aquatic Life Use (3) Lead (3) Organic Sediment (3) Dissolved Oxygen (2) Iron (2) Mercury (1) Ammonia (1) Manganese (1)
<b>Impaired Segments and Miles As Percent of Total Segments and Stream Miles in Basin</b>								
30%	70%							

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.



Exhibit 11-61. North Platte River Sub-Basin Impairments by Stream Segment<sup>1</sup>

Stream Segment (COUCNP)	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3</sup>								Desig	Parameter(s) Causing Impairments <sup>4</sup>		Source(s) <sup>5</sup>	TMDL Development Status <sup>6</sup>		
					C1	C2	W1	W2	RE	RNS	WS	AG		Fe	D.O.		L	M	H
					COUCNP 4b.	140.80	N	Illinois River	39.60	•									
COUCNP 7b.	12.30	N	Spring Creek	12.30		•									•	UK		•	
<b>Total Segments Impaired</b>			<b>2</b>																
<b>Total Stream Miles Impaired</b>			<b>51.90</b>																

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix A of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, RNS = Recreation Not Suitable, WS = Water Supply, and AG = Agriculture.

<sup>4</sup> Key to Parameters: Fe = iron and D.O. = dissolved oxygen.

<sup>5</sup> Key to Sources: M = mining, UK = unknown.

<sup>6</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.



Stream Segment	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3,4</sup>						Desig	Parameter(s) Causing Impairments <sup>5</sup>													Source <sup>6</sup>	TMDL Development Status <sup>7</sup>				
					C1	C2	W1	W2	RE	WS		Cd	Zn	As	Fe	Hg	pH	Cu	NH <sub>3</sub>	<i>E. coli</i>	Se	Pb	Aq. LU	Org. Sed.		Temp.	L	M	H	
					16c	322.70	N	Harvard, Harvard West, and Lakewood Gulches	13.90					•	•		UP									•				
<b>Subtotal Segments Impaired</b>			<b>12</b>																											
<b>Subtotal Miles Impaired</b>			<b>540.50</b>																											
<b>Cherry Creek (COSPPC)</b>																														
3	11.90	N	all	11.9				•											•	•							N/A	•		•
4	325.12	N	Goldsmith Gulch, Cottonwood Creek	9.11				•			UP									•							N/A	•		
<b>Subtotal Segments Impaired</b>			<b>2</b>																											
<b>Subtotal Miles Impaired</b>			<b>21.01</b>																											
<b>Bear Creek (COSPBE)</b>																														
2	8.00	N	below Kipling Parkway (CO 390)	4.20					•										•								UK			•
5	29.50	N	Swede/Kerr Gulch	5.90					•										•								UK	•		
<b>Subtotal Segments Impaired</b>			<b>2</b>																											
<b>Subtotal Miles Impaired</b>			<b>10.10</b>																											
<b>Clear Creek (COSPL)</b>																														
2a	6.20	N	all	6.20	•							•															M			•
2b	13.06	N	all	13.06	•							•	•														M			•
2c	24.15	N	all	5.65	•							•															M			•
3a	9.47	N	all	9.47	•											•											M			•
3b	6.40	N	all	6.40		•										•											M		•	
6	23.22	N	Mad Creek	3.42	•								•														M		•	
9a	19.94	N	Silver Creek	2.18	•											•						•					N/A			•
9b	4.00	N	all	4.00	•							•															UK			•
11	21.00	N	all	21.00	•						UP	•															UK, M			•



Stream Segment	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3,4</sup>						Desig	Parameter(s) Causing Impairments <sup>5</sup>												Source <sup>6</sup>	TMDL Development Status <sup>7</sup>				
					C1	C2	W1	W2	RE	WS		Cd	Zn	As	Fe	Hg	pH	Cu	NH <sub>3</sub>	E. coli	Se	Pb	Aq. LU		Org. Sed.	Temp.	L	M	H
13b	25.76	N	Mainstem of N. Clear Creek	7.56		•					UP	•													M		•		
14b	0.52	N	all	0.52				•			UP										•	•			UK	•			
15	11.90	N	all	11.90			•		•											•		•			UK	•		•	
18a	9.94	N	Ralston Creek	9.94					•		UP									•					UK			•	
<b>Subtotal Segments Impaired</b>			<b>13</b>																										
<b>Subtotal Miles Impaired</b>			<b>101.30</b>																										
<b>Big Dry Creek (COSPBD)</b>																													
1	48.20	N	all	48.20				•	•		UP										•	•				UK	•		•
<b>Subtotal Segments Impaired</b>			<b>1</b>																										
<b>Subtotal Miles Impaired</b>			<b>48.20</b>																										
<b>Boulder Creek (COSPBO)</b>																													
2b	54.87	N	below 13th Street in Boulder	4.17					•												•					UK			•
4a	92.22	N	Gamble Gulch	3.72	•							•														M			•
7	16.60	N	all	16.60					•												•					UK			•
8	29.60	N	Rock Creek	14.00				•			UP											•				UK		•	
9	11.50	N	Boulder Creek - S. Boulder Creek to Coal Creek	11.50			•																						
10	6.78	N	all	6.78			•		•												•					UK			•
<b>Subtotal Segments Impaired</b>			<b>6</b>																										
<b>Subtotal Miles Impaired</b>			<b>56.77</b>																										
<b>St. Vrain Creek (COSPSV)</b>																													
2a	99.90	N	all	99.90	•								•													N/A			•
2b	31.90	N	all	31.90	•											•								•		UK			•
3	27.30	N	St, Vrain Creek - Hygiene Rd. to S. Platte confluence	27.30			•																						

Stream Segment	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3,4</sup>						Desig	Parameter(s) Causing Impairments <sup>5</sup>											Source <sup>6</sup>	TMDL Development Status <sup>7</sup>				
					C1	C2	W1	W2	RE	WS		Cd	Zn	As	Fe	Hg	pH	Cu	NH <sub>3</sub>	<i>E. coli</i>	Se	Pb		Aq. LU	Org. Sed.	Temp.	L	M
4a	21.50	N	pH, Cu, Zn (Hwy 72 to James Ck);	21.50	•								•			•									M		•	
4b	18.65	N	Little James Creek	5.98	•											•					•				M		•	
4c	21.10	N	all	21.10	•									•											M			•
6	73.00	N	Dry Creek	4.80				•	•		UP								•						UK			•
6	73.00	N	all	73.00				•			UP									•					UK	•		
<b>Subtotal Segments Impaired</b>			<b>7</b>																									
<b>Subtotal Miles Impaired</b>			<b>280.68</b>																									
<b>Total Segments Impaired</b>			<b>41</b>																									
<b>Total Miles Impaired</b>			<b>11,037.55</b>																									

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix A of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, and WS = Water Supply.

<sup>4</sup> All uses for agriculture and recreation not suitable are being met.

<sup>5</sup> Key to Parameters: Cd = cadmium, Zn = zinc, As = arsenic, Fe = iron, Hg = mercury, pH = pH, NH<sub>3</sub> = ammonia, *E. coli* = *Escherichia coli*, Se = selenium, Pb = lead, Aq. LU = aquatic life use, Org. Sed. = organic sediment, and Temp. = temperature.

<sup>6</sup> Key to Sources: M = mining, UK = unknown, N/A = not assessed, and GW= groundwater.

<sup>7</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

<sup>8</sup> UP = Use protected.

<sup>9</sup> Parameter causing the impairment is listed as sediment.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.

Exhibit 11-63. Middle South Platte River Sub-Basin Impairments by Stream Segment

Stream Segment	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3,4</sup>					Desig	Parameter(s) Causing Impairments <sup>5</sup>										Source <sup>6</sup>	TMDL Development Status <sup>7</sup>			
					C1	C2	W1	W2	RE		E. coli	Se	Cu	pH	Cd	Zn	Temp.	D.O.	Aq. Life Use	Pb		L	M	H	
<b>Middle South Platte (COSPMS)</b>																									
1a	18.90	N	all	18.90				•	•	UP <sup>8</sup>	•											N/A			•
1b	51.60	N	all	51.60				•				•										N/A	•		
<b>Subtotal Segments Impaired</b>			<b>2</b>																						
<b>Subtotal Miles Impaired</b>			<b>70.50</b>																						
<b>Big Thompson River (COSPBT)</b>																									
1	141.40	N	all	141.40	•					OW <sup>9</sup>		•										N/A			•
2	147.81	N	Fish Creek below Marys Lake	3.41	•				•				•									UK			•
2	147.81	N	all	147.81	•							•		•	•	•						UK			•
3	5.45	N	all	5.45		•						•										N/A		•	
4a	2.19	N	all	2.19		•						•										N/A		•	
4b	4.11	N	all	4.11				•				•										UK		•	
5	18.90	N	all	18.9				•				•										UK	•		
6	214.32	N	all	214.32				•		UP		•										N/A		•	
7	45.71	N	North Fork of Big Thompson	13.88	•							•										N/A			•
8	99.20	N	all	99.20	•											•	•					N/A			•
9	24.20	N	all	24.20				•	•		•	•	•							•		UK	•	•	•
10	27.78	N	Big Hollow	4.68				•		UP		•										UK	•		
<b>Subtotal Segments Impaired</b>			<b>12</b>																						
<b>Subtotal Miles Impaired</b>			<b>679.55</b>																						
<b>Cache La Poudre (COSPCP)</b>																									
7	23.54	N	all	23.54		•								•							•	N/A		•	
10	16.00	N	all	16.00		•						•				•						UK		•	
11	8.05	N	all	8.05				•				•										N/A	•		



Stream Segment	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3,4</sup>					Desig	Parameter(s) Causing Impairments <sup>5</sup>										Source <sup>6</sup>	TMDL Development Status <sup>7</sup>		
					C1	C2	W1	W2	RE		E. coli	Se	Cu	pH	Cd	Zn	Temp.	D.O.	Aq. Life Use	Pb		L	M	H
12	37.90	N	all	37.90				•	•			•									UK	•		
12	37.90	N	all	37.90				•	•		•										UK			•
13a	762.00	N	all	762.00				•		UP		•									N/A, UK	•		
13a	762.00	N	Spring Creek and Fossil Creek	42.30				•	•		•										N/A, UK			•
13b	43.00	N	all	43.00				•				•									UK	•		
<b>Subtotal Segments Impaired</b>			<b>6</b>																					
<b>Subtotal Miles Impaired</b>			<b>890.49</b>																					
<b>Total Segments Impaired</b>			<b>20</b>																					
<b>Total Miles Impaired</b>			<b>1,640.54</b>																					

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix A of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, and WS = Water Supply.

<sup>4</sup> All uses for agriculture and recreation not suitable are being met.

<sup>5</sup> Key to Parameters: *E. coli* = *Escherichia coli*, Se = selenium, Cu = copper, pH = pH, Cd = cadmium, Zn = zinc, Temp. = temperature, D.O. = dissolved oxygen, Aq. Life Use = aquatic life use, and Pb = lead.

<sup>6</sup> Key to Sources: UK = unknown, and N/A = not assessed.

<sup>7</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

<sup>8</sup> UP = Use protected.

<sup>9</sup> OW = Outstanding Waters.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.

Exhibit 11-64. Lower South Platte River Sub-Basin Impairments by Stream Segment<sup>1</sup>

Stream Segment (COSPLS)	Stream Miles	Were All Uses Attained in 2010?	Segment Portion	Portion Miles <sup>2</sup>	Use(s) Not Attained <sup>3</sup>								Desig	Parameter(s) Causing Impairments <sup>4</sup>			Source <sup>5</sup>	TMDL Development Status <sup>6</sup>		
					C1	C2	W1	W2	RE	RNS	WS	AG		Se	Mn	E. coli		L	M	H
					1	306.00	N	all	306.00					•						
2b	823.16	N	Beaver Creek	60.80				•	1				UP <sup>7</sup>	•		•	N/A			•
<b>Total Segments Impaired</b>			<b>2</b>																	
<b>Total Miles Impaired</b>			<b>366.80</b>																	

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix A of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, RNS = Recreation Not Suitable, WS = Water Supply, and AG = Agriculture.

<sup>4</sup> Key to Parameters: Se = selenium, Mn = manganese, and E. coli = *Escherichia coli*.

<sup>5</sup> Key to Sources: N/A = not assessed.

<sup>6</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

<sup>7</sup> UP = Use protected.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.

Exhibit 11-65. Platte River Basin Impaired Lake/Reservoir Segments

Number of Impaired Segments	Total Acres Impaired	Use Categories Not Being Attained (Percent of Classified Uses by Category Basin Wide)						Parameters (number of impacted segments)
		Aquatic Life Cold Water (n=36)	Aquatic Life Warm Water (n=35)	Existing Recreation (n=65)	Not Suitable for Recreation (n=2)	Water Supply (n=60)	Agriculture (n=71)	
<b>North Platte (n=2 segments and 5,337 acres)</b>								
There are no impaired lakes in the North Platte River Sub-Basin.								
<b>Upper South Platte (n=43 segments and 31,507 acres)</b>								
6	1,109	2 (5%)	6 (17%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)	Dissolved Oxygen (5) Arsenic (1) Chlorophyll-a (1) Dissolved Oxygen (Temperature) (1) <i>E. coli</i> (1) Mercury (1) Phosphorus (1)
<b>Middle South Platte (n= 23 segments and 38,458 acres)</b>								
7	9,101	4 (11%)	5 (14%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	Ammonia (3) Dissolved Oxygen (3) Mercury (3) pH (3) Copper (1)
<b>Lower South Platte (n= 3 segments and 20,287 acres)</b>								
There are no impaired lakes in the Lower South Platte River Sub-Basin.								
<b>Basin-Wide (n= 71 segments and 95,588 acres)</b>								
13	10,210	6 (17%)	11 (31%)	1 (2%)	0 (0%)	0 (1%)	0 (0%)	Dissolved Oxygen (8) Mercury (4) Ammonia (3) pH (3) Arsenic (1) Chlorophyll-a (1) Copper (1) Dissolved Oxygen (Temperature) (1) <i>E. coli</i> (1) Phosphorus (1)
<b>Impaired Segments and Miles As Percent of Total Segments and Stream Miles in Basin</b>								
18%	11%							

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.



Exhibit 11-66. Upper South Platte River Sub-Basin Impairments by Lake/Reservoir Segment<sup>1</sup>

Lake Segment	Lake Acres <sup>1</sup>	Were All Uses Attained in 2010?	Segment Portion	Portion Lake Acres <sup>2</sup>	Use(s) Not Attained <sup>3</sup>								Desig	Parameter(s) Causing Impairments <sup>4</sup>						Source <sup>5</sup>	TMDL Development Status <sup>6</sup>				
					C1	C2	W1	W2	RE	RNS	WS	AG		Hg	D.O.	As	E.coli	Chlor-a	P		D.O. (Temp.)	L	M	H	
					<b>Upper South Platte (COSPUS)</b>																				
17a	121.4	N	Berkeley Lake, Rocky Mountain Lake	53.40			•								•							UK			•
17a	121.4	N	Berkeley Lake	30.40			•									•	•					UK	•		
17a	121.4	N	Duck Lake	6.00			•									•						N/A		•	
17b	167.89	N	all	167.89			•									•						N/A	•		
23	1138.1	N	Barnum Lake	7.30				•	•							•		•				N/A	•		•
23	1138.1	N	Garfield Lake, Harvey Lake, Parkfield Lake, Houston Lake	34.50					•								•					N/A		•	
<b>Subtotal Segments Impaired</b>			<b>3</b>																						
<b>Subtotal Acres Impaired</b>			<b>269.09</b>																						
<b>Bear Creek (COSPBE)</b>																									
1c	116.7	N	all	116.70	•													•	•			UK		•	
<b>Subtotal Segments Impaired</b>			<b>1</b>																						
<b>Subtotal Acres Impaired</b>			<b>116.70</b>																						
<b>Clear Creek (COSPCL)</b>																									
17a	186.2	N	all	186.20		•							UP <sup>7</sup>								•	N/A			•
<b>Subtotal Segments Impaired</b>			<b>1</b>																						
<b>Subtotal Acres Impaired</b>			<b>186.20</b>																						
<b>St. Vrain Creek (COSPSV)</b>																									
7	666.3	N	Boulder Reservoir	537.40			•																		

Lake Segment	Lake Acres <sup>1</sup>	Were All Uses Attained in 2010?	Segment Portion	Portion Lake Acres <sup>2</sup>	Use(s) Not Attained <sup>3</sup>								Desig	Parameter(s) Causing Impairments <sup>4</sup>						Source <sup>5</sup>	TMDL Development Status <sup>6</sup>		
					C1	C2	W1	W2	RE	RNS	WS	AG		Hg	D.O.	As	<i>E.coli</i>	Chlor-a	P		D.O. (Temp.)	L	M
<b>Subtotal Segments Impaired</b>			<b>1</b>																				
<b>Subtotal Acres Impaired</b>			<b>537.40</b>																				
<b>Total Segments Impaired</b>			<b>6</b>																				
<b>Total Acres Impaired</b>			<b>1,109.39</b>																				

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix B of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, RNS = Recreation Not Suitable, WS = Water Supply, and AG = Agriculture.

<sup>4</sup> Key to Parameters: Hg = mercury, D.O. = dissolved oxygen, As = arsenic, *E. coli* = *Escherichia coli*, Chlor-a = chlorophyll-a, P = phosphorus, and D.O. (Temp.) = dissolved oxygen (temperature).

<sup>5</sup> Key to Sources: UK = unknown and N/A = not assessed.

<sup>6</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

<sup>7</sup> UP = Use protected.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.

Exhibit 11-67. Middle South Platte River Sub-Basin Impairments by Lake/Reservoir Segment<sup>1</sup>

Lake Segment	Lake Acres	Were All Uses Attained in 2010?	Segment Portion	Portion Lake Acres <sup>2</sup>	Use(s) Not Attained <sup>3</sup>								Desig	Parameter(s) Causing Impairments <sup>4</sup>					Source <sup>5</sup>	TMDL Development Status <sup>6</sup>		
					C1	C2	W1	W2	RE	RNS	WS	AG		pH	NH <sub>3</sub>	D.O.	Hg	Cu		L	M	H
					<b>Middle South Platte (COSPMS)</b>																	
4	3,328.62	N	all	3,328.62				•						UP <sup>7</sup>	•	•			N/A	•	•	
4	3,328.62	N	Milton Reservoir	1,603.03				•									•		N/A	•		
7	8,164.50	N	Horse Creek Reservoir	702.90				•							•	•			UK	•		
7	8,164.50	N	Prospect Lake	369.70				•							•	•	•		N/A		•	
<b>Subtotal Segments Impaired</b>			<b>2</b>																			
<b>Subtotal Acres Impaired</b>			<b>4,401.22</b>																			
<b>Big Thompson River (COSPBT)</b>																						
11	1,119.93	N	all	1,119.93	•												•		UK			•
12	3,106.89	N	Boyd Lake	1,511.19			•										•		UK			•
16	188.30	N	Lake Estes	138.10	•													•	N/A			•
<b>Subtotal Segments Impaired</b>			<b>3</b>																			
<b>Subtotal Acres Impaired</b>			<b>2,769.22</b>																			
<b>Cache La Poudre (COSPCP)</b>																						
14	1,810.35	N	all	1,810.35	•												•		UK			•
20	120.50	N	Seaman Reservoir	120.50		•											•		N/A		•	
<b>Subtotal Segments Impaired</b>			<b>2</b>																			
<b>Subtotal Acres Impaired</b>			<b>1,930.85</b>																			
<b>Total Segments Impaired</b>			<b>7</b>																			
<b>Total Acres Impaired</b>			<b>9,101.29</b>																			

<sup>1</sup> The table includes all segments that are not attaining one or more of their classified uses as presented in appendix B of the 2010 Integrated Report. This can include segments for which a TMDL has been developed (which means the segment is not listed on the 2010 CWA section 303(d) list (Regulation No. 93) (WQCC 2010c; WQCD 2010a). For these segments it likely means that the full effects of TMDL implementation are yet to be realized and the segment has yet to attain its classified uses. The cells for “parameters causing impairments,” “source(s),” and “TMDL development status” are left blank in these cases.

<sup>2</sup> Totals might not add due to rounding.

<sup>3</sup> Key to Classified Uses: C1 = Aquatic Life Cold Water 1, C2 = Aquatic Life Cold Water 2, W1 = Aquatic Life Warm Water 1, W2 = Aquatic Life Warm Water 2, RE = Recreation Existing, RNS = Recreation Not Suitable, WS = Water Supply, and AG = Agriculture.

<sup>4</sup> Key to Parameters: pH = pH, NH<sub>3</sub> = ammonia, D.O. = dissolved oxygen, Hg = mercury, and Cu = copper.

<sup>5</sup> Key to Sources: UK = unknown, and N/A = not assessed.

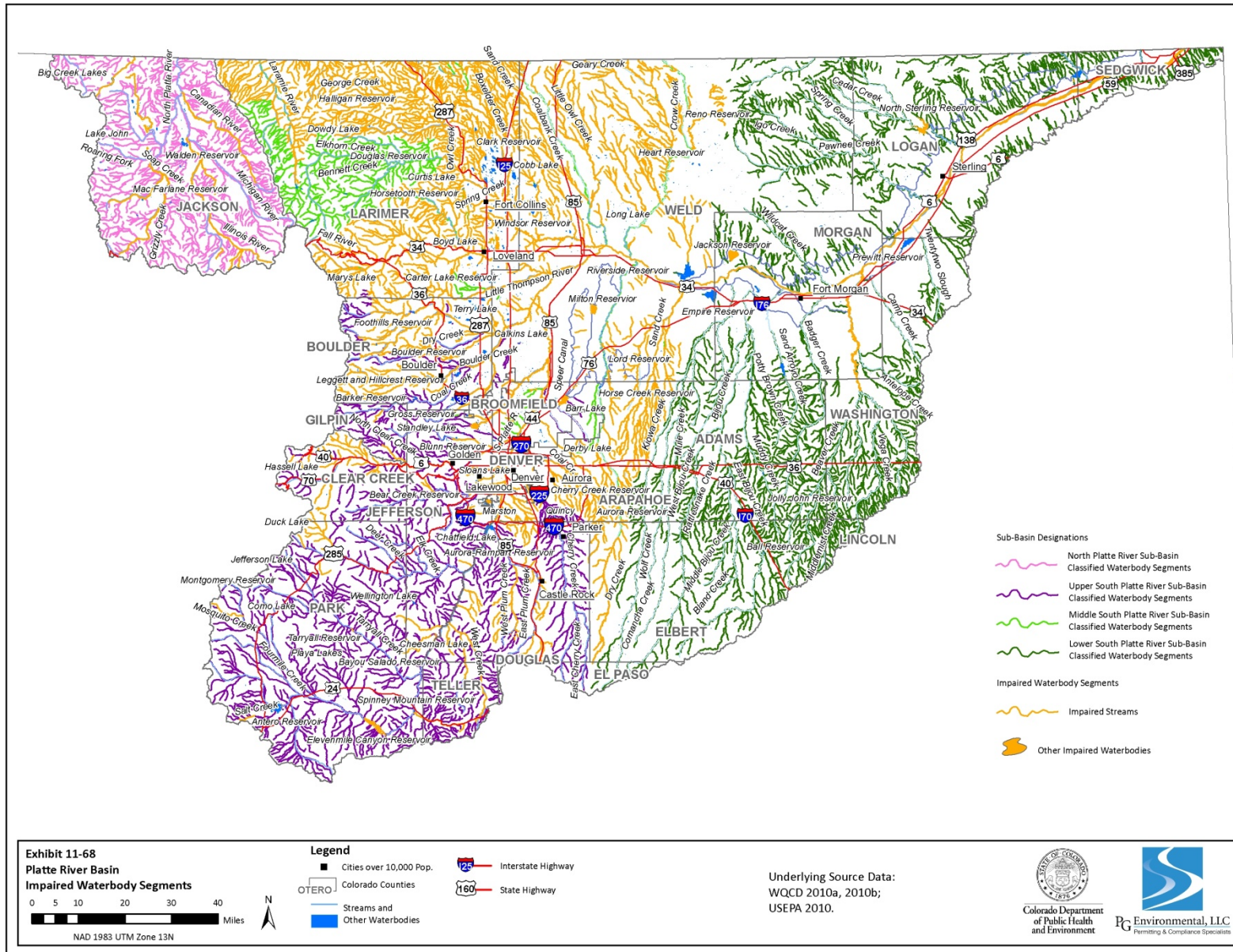
<sup>6</sup> Key to TMDL Development Status: L = low priority, M = medium priority, and H = high priority.

<sup>7</sup> UP = Use protected.

Sources: WQCC 2010c; WQCD 2010a, appendices A to D.



Exhibit 11-68. Platte River Basin Impaired Waterbody Segments



**Exhibit 11-69. Platte River Basin Summary of Waterbody Segments Listed for Further Monitoring and Evaluation**

Number of Segments <sup>1</sup>	Number of Segments as Percent of Total Segments in Sub-Basin or Basin	Parameters of Concern <sup>2</sup>																	
		Cu	<i>E. coli</i>	Iron (dissolved)	Aquatic Life Use	Iron (total recoverable)	pH	Temp.	Sediment	Cd	Se	D.O.	As	Hg	Pb	Ammonia	Zn	Mn	Sulfide
<b>North Platte (12 total segments in sub-basin)</b>																			
3	25%	1	3	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0
<b>Upper South Platte (142 total segments in sub-basin)</b>																			
34	24%	6	2	0	4	6	6	2	3	8	3	15	2	1	4	1	3	1	0
<b>Middle South Platte (58 segments in sub-basin)</b>																			
14	24%	3	2	0	1	0	1	0	0	1	0	5	3	0	2	0	0	0	1
<b>Lower South Platte (6 segments in sub-basin)</b>																			
2	33%	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0
<b>Basin-Wide (218 total segments in basin)</b>																			
53	24%	10	7	1	7	8	10	2	3	9	4	21	5	1	6	1	3	1	1

<sup>1</sup> Segments include combined stream and lake/reservoir segments.

<sup>2</sup> Key to Parameters: Cu = copper, *E. coli* = *Escherichia coli*, Temp. = temperature, Cd = cadmium, Se = selenium, D.O. = dissolved oxygen, As = arsenic, Hg = mercury, Pb = lead, Zn = zinc, and Mn = manganese.

Sources: WQCC 2010c; WQCD 2010a, appendix D.

**Exhibit 11-70. North Platte River Sub-Basin Waterbody Segments Listed for Further Monitoring and Evaluation**

Segment (COUCNP)	Segment Portion(s)	Parameters of Concern and Source(s) if Known					
		Copper	E. coli	Iron (Dis)	Aquatic Life Use	Iron (Trec)	pH
1	South Fork Big Creek	•	•				
4a	Canadian River		•	•			
4a	Grizzly Creek, Little Grizzly Creek				•		
4a	Little Grizzly Creek		•			•	
4a	Lake Creek					•	•
9	Lake John, North Delaney Lake						•
Total Segments with One or More Portions on M&E List	3	1	3	1	1	2	2
Total as Percent of All Segments in Sub-basin, n=12	25%	8%	25%	8%	8%	17%	17%

Sources: WQCC 2010c; WQCD 2010a, appendix D.

Exhibit 11-71. Upper South Platte River Sub-Basin Waterbody Segments Listed for Further Monitoring and Evaluation

Segment	Segment Portion(s)	Parameters of Concern and Source(s) if Known															
		Temperature	Sediment	Cadmium	Selenium	Dissolved Oxygen	Iron (Trec)	Arsenic	Mercury	pH	Aquatic Life Use	Lead	E. coli	Copper	Ammonia	Zinc	Manganese
Upper South Platte (COSPLUS)																	
2a	Salt Creek d/s of N. Fork, on USFS Land	•															
2a	Twin Creek, on USFS Land	•															
3	Pine Creek, on USFS Land		•														
3	Fourmile Creek		•														
3	Sugar Creek, on USFS Land		•														
3	Hawkins Gulch			•	•												
3	Horse Creek					•	•										
3	West Creek							•	•								
3	Goose Creek					•											
3	Trail and Wigwam Creeks						•										
7	Willow Creek				•		•										
9	Bear Creek					•											
11a	all						•			•							
11b	Spring Creek, Bear Creek										•						
12	Jackson Creek											•					
16b	all					•							•				
16c	Weir Gulch												•				
17a	Rocky Mountain Lake									•				•			
17a	Ferril Lake, Smith Lake									•							
17a	Grasmere Lake													•			
17a	Duck Lake									•					•		
17b	all						•										



Segment	Segment Portion(s)	Parameters of Concern and Source(s) if Known															
		Temperature	Sediment	Cadmium	Selenium	Dissolved Oxygen	Iron (Trec)	Arsenic	Mercury	pH	Aquatic Life Use	Lead	E. coli	Copper	Ammonia	Zinc	Manganese
19	Tarryall Reservoir, Cheesman Reservoir, Elevenmile Reservoir, Spinney Mountain Reservoir					•											
22	Marston Reservoir, Quincy Reservoir					•											
23	Vanderbilt Lake					•											
23	Overland Lake, Parkfield Lake, Houston Lake, Aqua Golf Lake									•							
23	Garfield Lake, Harvey Lake, Aqua Golf Lake						•										
<b>Cherry Creek (COSPCC)</b>																	
2	all					•											
6	Lollipop Lake				•												
<b>Bear Creek (COSPBE)</b>																	
1c	all					•											
<b>Clear Creek (COSPCL)</b>																	
6	Mad Creek									•							
6	Hoop Creek			•								•				•	
9a	Fall River					•										•	
14b	all																•
15	all											•					
<b>Big Dry Creek (COSPBD)</b>																	
2	all					•											
<b>Boulder Creek (COSPBO)</b>																	
1	all											•				•	

Segment	Segment Portion(s)	Parameters of Concern and Source(s) if Known															
		Temperature	Sediment	Cadmium	Selenium	Dissolved Oxygen	Iron (Trec)	Arsenic	Mercury	pH	Aquatic Life Use	Lead	E. coli	Copper	Ammonia	Zinc	Manganese
2a	all			•										•			
2b	all			•										•			
3	all			•										•			
8	Rock Creek												•				
9	all			•				•					•				
10	all			•									•				
14	Barker Reservoir			•		•								•			
<b>St. Vrain Creek (COSPSV)</b>																	
3	all												•				
7	Boulder Reservoir					•											
9	Union Reservoir					•											
13	Lake Thomas					•											
<b>Total Segments with One or More Portions on M&amp;E List</b>																	
	34	2	3	8	3	15	6	2	1	6	4	4	2	6	1	3	1
<b>Total as Percent of All Segments in Sub-basin, n=142</b>																	
	24%	1%	2%	6%	2%	11%	4%	1%	1%	4%	3%	3%	1%	4%	1%	2%	1%

Source: WQCC 2010d, WQCC 2010a, appendix D.

Exhibit 11-72. Middle South Platte River Sub-Basin Segments Listed for Further Monitoring and Evaluation

Segment No.	Segment Portion(s)	Parameters of Concern and Source(s) if Known								
		Dissolved Oxygen	Sulfide	E. coli	Copper	Arsenic	Lead	Cadmium	Aquatic Life Use	pH
<b>Middle South Platte (COSPMS)</b>										
4	Barr Lake	•								
7	Horse Creek Reservoir	•								
<b>Big Thompson River (COSPBT)</b>										
2	all		•							
6	Dry Creek			•						
11	all				•	•				
12	all	•								
14	Lon Hagler Reservoir and Lonetree Reservoir	•								
16	Lake Estes					•	•			
<b>Cache La Poudre (COSPCP)</b>										
6	all				•					
8	all			•						
9	all						•	•		
10	all								•	
14	all	•			•	•				
<b>Laramie River (COSPLA)</b>										
2a	all									•
<b>Total Segments with One or More Portions on M&amp;E List</b>										
	14	5	1	2	3	3	2	1	1	1
<b>Total as Percent of All Segments in Sub-basin, n=58</b>										
	24%	9%	2%	3%	5%	5%	3%	2%	2%	2%

Sources: WQCC 2010c; WQCD 2010a, appendix D.

**Exhibit 11-73. Lower South Platte River Sub-Basin Waterbody Segments Listed for Further Monitoring and Evaluation**

Segment No. (COSPLS)	Segment Portion(s)	Parameters of Concern and Source(s) if Known			
		Aquatic Life Use	Dissolved Oxygen	Selenium	pH
1	all	•			
3	North Sterling Reservoir		•		
3	North Sterling, Jackson and Jumbo Reservoirs			•	•
Total Segments with One or More Portions on M&E List	2	1	1	1	1
<i>Total as Percent of All Segments in Sub-basin, n=6</i>	33%	17%	17%	17%	17%

Sources: WQCC 2010c; WQCD 2010a, appendix D.



**Exhibit 11-74. in text**

**Exhibit 11-75. in text**

**Exhibit 11-76. in text**

Exhibit 11-77. Platte River Basin Completed and Approved TMDLs

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
<b>North Platte River Sub-Basin</b>				
<i>Currently, no TMDLs have been completed and approved for segments in the North Platte River Sub-Basin.</i>				
<b>Upper South Platte River Sub-Basin</b>				
<p><b>COSPUS01a</b> Mainstem of South Platte River, Elevenmile Dam to Cheesman Reservoir</p> <p><i>The listed segment has been recognized by the Pike and San Isabel National Forest, Cimarron and Comanche National Grasslands (PSICC) as being eligible for inclusion into the Wild and Scenic River system; a suitability analysis was underway at time of TMDL development. The listed portion of the river can be segmented into three reaches, which also coincide with the segments discussed in the Wild and Scenic River Study Report and Draft Legislative Environmental Impact Statement.</i></p> <p>Source: WQCD 2002b.</p>	<p>Sediment (2002)</p> <p><i>Segment was not in attainment for sediment standards according to 2010 Integrated Report.</i></p>	<p>Runoff from roadways and recreational sites; erosion prone soils.</p>	<p>Segment 1A of the South Platte River includes the mainstem of the South Platte River from the source of the South and Middle Forks to a point immediately above the confluence with the North Fork of the South Platte River, including all mainstem reservoirs. The segment is located in east central Colorado, and is part of the Platte River drainage. The headwaters are high in the Southern Rocky Mountain Range on the Continental Divide, and drain eastward through the Front Range with elevations ranging from over 14,000 to 6,850 feet.</p> <p>The portion of segment 1A included on the section 303(d) list extends from the outlet of the Elevenmile Dam at 8,460 feet to Cheesman Reservoir at 6,850 feet. It is located in the South Platte Headwaters (Hydrologic Unit Code 10190001) and Upper South Platte (HUC 10190002) watersheds. This 26.8 mile portion of the river runs towards the north-northeast. Major tributaries include Twin Creek, Tarryall Creek, and Beaver Creek. The listed portion is located in Park, Teller, Jefferson and Douglas Counties southeast of Denver. Lake George and Sportsman’s Paradise are small communities along the river.</p> <p>The U.S. Forest Service is the primary landowner in this watershed, some 76 % of the South Platte River corridor lies within the Pike National Forest boundaries. The geology of the area, including Elevenmile Canyon is dominated by Precambrian Pikes Peak Granite. This is coarse-grained biotite and hornblende-biotite granite, very susceptible to weathering. This geology is the parent material for the two predominant soils in the watershed, Sphinx and Legault. Both are gravelly coarse sandy loams, with moderate to rapid runoff, and moderate to severe water erosion hazards. An estimated 87% of the area has a moderate or severe potential erosion hazard. On slopes greater than 35%, which occur along the river corridor, the erosion potential is severe. Examples of sheet, rill and gully erosion are readily observable throughout the drainage.</p>	<p><b>Current Strategies:</b></p> <ul style="list-style-type: none"> <li>◆ Implement alternate road management options in Elevenmile Canyon identified through modeling under Water Erosion Prediction Program. The options include various buffer treatments such as recontouring of fillslopes and armoring or vegetating roadside ditches. Management options include maintaining or increasing buffer widths to 4 feet minimum, recontouring of fill to less than 15 % slopes, armoring or vegetating ditches. Implement U.S. Forest Service recommendations to reduce sediment delivered via the Sportsman’s Paradise roads. The recommendations included improvement of maintenance practices, application of a biodegradable roadbase stabilizaion product, cleaning of ditches, and installation of additional culverts. Close and remediate portions of roads in the vicinity of Corral Creek crossing. Close illicitly reopened roads.</li> <li>◆ Make additional improvements to FDR 540, the Corral Creek Road, including realignment of steep or poorly located sections of the road and installation of 3,352 feet of post and cable fencing.</li> <li>◆ Install fencing to prevent four-wheel drive vehicle access to the river itself and to protect riparian areas.</li> </ul> <p><b>Future Strategies:</b></p> <p>One of the primary activities performed during TMDL development was modeling using the Water Erosion Prediction Program (USDA 1999, cited in WQCD 2002b). The modeling was used to identify specific pollutant sources and to predict possible loading reductions based on various land management options. The TMDL report indicates that remediation is and will continue to be directed at Elevenmile Canyon Road, constructed recreational facilities, streambank erosional areas, and areas impacted by grazing (if necessary). A number of pullouts along the road, especially those located in proximity to the river, are to be closed and rehabilitated. Additionally, improvements are slated to be made in riparian habitat, including planting of willows and installation of erosion barriers in the Elevenmile Canyon and Happy Meadows reaches. Finally, campgrounds are to be rehabilitated to conform to USFS BMP standards.</p>

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
<p><b>COSPUS02b</b> Mosquito Creek and South Mosquito Creek</p>	<p>Cadmium Lead Zinc</p>	<p>There is one TMDL report covering the three pollutants. The TMDL is archived.<sup>2</sup> <i>Segment was not in attainment for cadmium and lead standards according to 2010 Integrated Report.</i></p>		
<p><b>COSPUS02c</b> Mosquito Creek and South Mosquito Creek</p>	<p>Cadmium Iron Manganese Zinc</p>	<p>There is one TMDL report covering the four pollutants. The TMDL is archived.<sup>2</sup> <i>Segment was not in attainment for cadmium, iron, manganese, or zinc standards according to 2010 Integrated Report.</i></p>		
<p><b>COSPUS03</b> Trout Creek and tributaries on National Forest Lands – Phase 1  Source: WQCD 2008d.</p>	<p>Sediment  <i>Segment was not in attainment for sediment standards according to 2010 Integrated Report.</i></p>	<p>The sources of sediment to Trout Creek are similar to those in the mainstem of the Upper South Platte River and are mostly nonpoint. The sources include roads, logging, grazing, off-road vehicle use, and bank and natural erosion. Portions of Trout Creek lay within National Forest lands that have a variety of mixed recreational uses such as camping, off-road vehicle use, and hiking. In addition, historic overgrazing and logging have reduced vegetation in the watershed and riparian corridor leading to increased erosion rates along Trout Creek. The TMDL report also notes that nutrient loading from a wastewater treatment facility in the area may be further exacerbating the sediment loading problems in Trout Creek.</p>	<p>The South Platte River headwaters are located high in the Southern Rocky Mountain Range on the Continental Divide, and drain eastward through the Front Range. Segment 3 of the South Platte River includes those tributaries to the South Platte River located between the Tarryall Creek confluence to immediately above the confluence with the North Fork of the South Platte River. The TMDL addresses the portion of the segment that includes the Trout Creek mainstem and its tributaries that lie within the Pike National Forest boundaries.  Trout Creek and its tributaries rise in the mountains west of Colorado Springs, Colorado, at an elevation of approximately 9,800 to 9,900 feet. The segment portion is located within the Upper South Platte watershed, Hydrologic Unit Code (HUC) 10190002. The Trout Creek watershed lies between the Rampart Range to the east and the West Creek Range to the west. Trout Creek flows northward, joining West Creek to form Horse Creek some 4 to 5 miles above its confluence with the South Platte River. Two impoundments, Manitou Lake and Rainbow Park Lake, are located on the mainstem of Trout Creek. The Trout Creek watershed occupies approximately 33,350 acres and lies, for the most part, within the Pike National Forest. The Forest is managed for multiple uses including recreation, grazing and timber production. A significant portion of the watershed is situated above the forest boundary and includes a mix of rural and urban development including the Town of Woodland Park.  Precambrian Pikes Peak Granite dominates the geology of the area. This is coarse-grained biotite and hornblende-biotite granite, very susceptible to weathering. This geology is the parent material for the predominant soils in the watershed. The lower reaches and much of the tributary upland portions of the watershed are composed of the Sphinx and Legault soils series. Both are gravelly, coarse, sandy loams, with moderate to rapid runoff, and moderate to severe water erosion hazards. Soils found along the upper mainstem of Trout Creek include the Boyette, Frenchcreek and Pendant series. Again, these are</p>	<p><b>Current and Future Activities:</b> A detailed Sampling and Analysis Plan is being jointly developed by the U.S. Forest Service and the Division.  The U.S. Forest Service, in their 2003 Environmental Assessment of the Pikes Peak National Forest proposed the development of an adaptive management plan for the grazed allotments in the project area. This plan would focus on practices that would maintain and improve rangeland and watershed health in areas with degraded conditions. This would be accomplished by changing current grazing management practices by application of the three most important factors of the Grazing Response Index: frequency of grazing, intensity of grazing, and time and duration of grazing.  The U.S. Forest Service has proposed to manage livestock grazing to promote riparian area health, improve stream conditions, and stabilize stream banks. These goals would be accomplished using a combination of shorter-duration grazing, application of stubble height standards in riparian areas, fencing or intensive herding where needed, and resting areas to prevent overgrazing and encourage additional plant growth. Cattle use would be largely reduced in riparian corridors using salting, caking, off-stream watering, riding, herding or temporary fencing. During periods of upland use in the allotments, cattle would be prevented from congregating in the riparian corridor.  The Rocky Mountain Forest and Range Experiment Station proposed to conduct research to compare the different grazing strategies within the Manitou Allotment. Results of the research would be used to establish better grazing strategies and to better define adaptive management principles applicable to the project area.  Growth in and around the area also means greater numbers of forest users and recreationists. Unauthorized off highway vehicle and motorcycle use off of designated roads/trails would continue to impact the riparian areas of Trout Creek. Social trails and semi-permanent camping areas have developed along many creeks in the area. These may have an overall negative effect on the integrity of riparian ecosystems; therefore some increased form of management for this system may be required.</p>

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			<p>fairly course soils, but the predominant soil type in this portion of the drainage, the Boyette series, is rated as a slight to moderate erosion hazard. The Frenchcreek and Pendant series are rated moderate and severe, respectively. Examples of sheet, rill and gully erosion are readily observable throughout the drainage.</p> <p>Beaver activity within the watershed is very evident. The large number of beaver dams acts to entrain sediment as well as attenuate instream flows. Fish species present in the Trout Creek watershed include brook trout (<i>Savelinus fontinalis</i>), white sucker (<i>Catostomus commersoni</i>), longnose sucker (<i>Catostomas catostomas</i>), fathead minnow (<i>Pimephales promelas</i>), stoneroller (<i>Campostoma anomalum</i>), sand shiner (<i>Notropis stramineus</i>), and speckled dace (<i>Rhinichthys osculus</i>). Rainbow trout (<i>Oncorhynchus mykiss</i>) have been stocked in Manitou Reservoir and are sometimes found instream below the Reservoir.</p>	
<p><b>COSPUS04</b> Hall Valley to Geneva Creek  Source: WQCD 2008c</p>	<p>Copper  <i>Segment was not in attainment for copper standards according to 2010 Integrated Report.</i></p>	<p>Hall Valley to Geneva Creek has one TMDL for copper. The TMDL report indicates that historic mining in Hall Valley is the predominant cause of the impairments in the segment. Whale Mine was discovered in 1869 and mined for silver as well as lead and copper. In addition Missouri Mine located approximately half a mile from Whale Mine was discovered in the 1870s and was one of the larger mines in the area, spanning 2,100 feet over three levels. Production at both Whale Mine and Missouri Mine ended in the 1920s. Seepage from the mines into the groundwater has led to low pH levels and high dissolved copper downstream.</p>	<p>The headwaters of the North Fork of the South Platte River include the Hall Valley and Handcart Gulch watersheds that lie on the northwest edge of Park County in central Colorado. The Hall Valley/Handcart Gulch watershed covers approximately 11.2 square miles and is bounded by the Continental Divide on the north and west and the Hall Valley/Jefferson Creek watershed divide to the south. The Handcart Gulch watershed divide is to the north and east of the upper portion of Hall Valley.</p> <p>The headwaters of the North Fork of the South Platte River including Hall Valley and Handcart Gulch are located in an area known as the Colorado mineral belt. The Colorado mineral belt is a geologic name for a region extending from near Durango in the southwestern part of the state to Boulder in the Front Range. Topography of Hall Valley and Handcart Gulch is extremely rugged. The headwaters of the valley and gulch are at approximately 12,600 feet above mean sea level (amsl) and are located near the Continental Divide to the west and north. The confluence of Handcart Gulch with the North Fork of the South Platte River is at approximately 9,846 feet amsl. The confluence is above the Hall Valley Campground in the Pike National Forest.</p> <p>The Red Cone Peak area of which Hall Valley and Handcart Gulch are a portion have been identified by the Colorado Geological Survey as an area with naturally-occurring acid rock drainage. Handcart Gulch is an unmined, naturally</p>	<p><b>Current Activities:</b> The TMDL report indicates that historic mining in Hall Valley is the predominant cause of the impairments in the segment. Few remediation activities are noted in the TMDL report. Colorado’s Hazardous Materials and Waste Management Division prepared an Analytical Results Report of the Hall Valley under Superfund. EPA was not expected to pursue any remedial activities to improve water quality in the valley.</p> <p>Natural attenuation mechanisms are helping remediate the effects from the naturally-occurring acid rock drainage in the basin. The TMDL report indicates that analyses of new and old precipitate show that trace metals are incorporated and remain immobile (Meyer 1997, cited in WQCD 2008b, 2008e).</p> <p>The TMDL report indicates that the WQCD was considering a proposal to modify the aquatic life standards for the segment portion to reflect the ambient conditions in the basin.</p> <p><b>Future Activities:</b> None were identified in the report.</p>



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			<p>generated acidic stream from surface flow across and metal seeps from pyritically altered quartz monzonites of the Oligocene-age Montezuma stock. Upstream of Handcard Gulch on the North Fork of the South Platte River, historic mining activities have affected surface water quality. The Montezuma stock straddles the Continental Divide in Park, Clear Creek and Summit Counties. Degraded water quality associated with the altered rocks affects stream basins on both sides of the Continental Divide.</p>	
<p><b>COSPUS04</b> Hall Valley to Geneva Creek</p> <p>Source: WQCD 2008c</p>	<p>pH</p> <p><i>Segment was not in attainment for pH standards according to 2010 Integrated Report.</i></p>	<p>Hall Valley to Geneva Creek has a public notice draft TMDL for pH. The report cites the same sources as contained in TMDL for copper for same segment (see previous row of exhibit).</p>	<p>See above.</p>	<p><b>Current Activities:</b> The Coalition for the Upper South Platte, a watershed group formed to address the portion of the South Platte drainage above the Front Range urban corridor, was recently (2010) awarded a \$15,000 Healthy Rivers grant (administered by the Colorado Water Conservation Board) for the identification and quantification of natural versus anthropogenic pH sources in the Upper North Fork (Hall Valley and Handcart Gulch), as well as remediation planning.</p> <p><b>Future Activities:</b> None were identified in the report.</p>
<p><b>COSPUS05a</b> Geneva Creek, source to Scott Gomer Creek</p> <p>Source: WQCD 2010d.</p>	<p>Cadmium Copper Manganese Zinc</p> <p><i>Segment was not in attainment for cadmium, copper and zinc standards according to 2010 Integrated Report.</i></p>	<p>There is one report containing TMDLs for cadmium, copper, manganese and zinc in each of the two segments: 05a and 05b. The majority of Geneva Creek is located within the Pike National Forest. No anthropogenic sources for the metals could be found and investigations into point sources for the metals found that any effects from historical mining are minimal. As a result, the high metal concentrations have been attributed to natural geologic conditions. It is believed that the iron fen area and its associated geological processes are the major contributors of metals to</p>	<p>Geneva Creek rises in Geneva Basin near the Continental Divide in Clear Creek County and flows southeasterly through Park County towards its confluence with the North Fork South Platte River at Grant, Colorado. Geneva Creek has been split into two segments for regulatory purposes. The upper segment (Upper South Platte segment 5a) is from the source of Geneva Creek to the confluence with Scott Gomer Creek, and is roughly 9 miles in length. The lower segment (Upper South Platte segment 5b) is from Scott Gomer Creek to the confluence with the North Fork of the South Platte River, and is roughly 4 miles in length.</p>	<p><b>Current Activities:</b> The TMDL report indicates that there is no known restoration planning for the Geneva Creek watershed. There are no known point source discharges associated with legacy mining features. The Iron Fen area is protected as a Colorado State Natural Area. Given these factors, the TMDL report indicates that it is unlikely the metals loadings to the basin will be ameliorated.</p> <p><b>Future Activities:</b> No future remediation activities were identified in the TMDLs for Geneva Creek.</p>
<p><b>COSPUS05b</b> Geneva Creek, Scott Gomer Creek to North Fork South Platte River</p> <p>Source: WQCD 2010d.</p>	<p>Cadmium Copper Manganese Zinc</p> <p><i>Segment was not in attainment for cadmium and zinc standards according to 2010 Integrated Report.</i></p>	<p>investigations into point sources for the metals found that any effects from historical mining are minimal. As a result, the high metal concentrations have been attributed to natural geologic conditions. It is believed that the iron fen area and its associated geological processes are the major contributors of metals to</p>	<p>The Geneva Creek watershed lies within hydrothermally altered terrain associated with the Montezuma Stock. The Montezuma Stock and associated hydrothermal ore deposits were heavily mined on the western side of the Continental Divide in the Snake River and Peru Creek drainages. Mining on the eastern side of the Continental Divide in areas dominated by Montezuma Stock alteration appears to be minimal (CGS 2000 as cited in WQCD 2010d).</p> <p>The majority of the Geneva Creek Basin is owned by the U.S. Forest Service as part of the Pike National Forest; therefore it is unlikely that any new discharges will occur in the next 20 years. The Iron Fen area, which is located in</p>	

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		<p>Geneva Creek. An iron fen is a unique geochemical feature of the watershed and is a wetland area where metal laden groundwater comes to the surface producing a red substrate of precipitated iron. Iron fens are particularly rare and have high pH levels with high mineral content. Colorado is the only place in the world with iron fens and a total of eight are located in the state.</p>	<p>the headwaters of Geneva Creek (segment COSPUS05a) is owned by Clear Creek County and is registered as a Colorado State Natural Area with the Department of Natural Resources. At the time the TMDLs were developed, there were no current Colorado Discharge Permit System (CDPS) or National Pollutant Discharge Elimination System (NPDES) permits that discharged to Geneva Creek or its tributaries.</p>	
<p><b>COSPUS14</b> South Platte River, Bowles Ave. to Burlington Ditch Source: WQCD N.d.-b</p>	<p><i>E. coli</i>  <i>Segment was not in attainment for E. coli standards according to 2010 Integrated Report.</i></p>	<p>The segment is located within the city and county of Denver. The exceedances for <i>E. coli</i> and nitrate occur under low flow conditions. In particular, high nitrate concentrations had been identified under low flow and high wastewater discharge scenarios. At the time the TMDL reports were completed, the sources for <i>E. coli</i> had not been confirmed, but sanitary sewer seepage, cross connections, wildlife, and pets were suspected contributors.</p>	<p>The Urban South Platte Watershed is part of the South Platte Middle Basin - Hydrologic Unit Codes (HUC) 10190002 and 10190003. South Platte River Segment 14 is located in Arapahoe and Denver Counties, within the Urban South Platte Watershed. Segment 14 begins at Bowles Avenue in Arapahoe County and flows north. The reach between Oxford and the Burlington Ditch is considered urban. The urban section of the reach has been straightened and realigned; it has a narrow and deep channel. Except during low flow, there are few exposed bars. The riparian vegetation is much less extensive than in the suburban and rural areas. Many bank and channel structures have been constructed in Segment 14 to manage the changing elevation of the riverbed.</p>	<p><b>Current Activities:</b> The first iteration of the TMDL will address municipal separate storm sewer system (MS4) permitted outfalls that have dry weather flows with elevated <i>E. coli</i> levels. The TMDL will be re-evaluated once all dry weather flows from stormwater collection systems that drain to segment 14 are considered to be controlled through BMPs. Ten year compliance schedules will likely be provided where needed.</p>
<p><b>COSPUS14</b> South Platte River, Bowles Ave. to Burlington Ditch Source: WQCD 2004</p>	<p>Nitrate</p>	<p>The segment is located within the city and county of Denver. The exceedances for <i>E. coli</i> and nitrate occur under low flow conditions. In particular, high nitrate concentrations had been identified under low flow and high wastewater discharge scenarios. At the time the TMDL reports were completed, the sources for <i>E. coli</i> had not been confirmed, but sanitary sewer seepage, cross connections, wildlife, and pets were suspected contributors.</p>	<p>The river flows by Englewood and Overland golf courses prior to entering commercial and highly industrialized areas of metropolitan Denver. Bear Creek, which enters adjacent to the Englewood Golf Course, and Cherry Creek, which enters in the vicinity of 14th Street, influence the segment. Water diversions take place at the Allen Diversion, the Xcel Arapahoe power plant (previously known as Public Service Arapahoe power plant), Overland Golf Course, the Farmers and Gardeners Ditch, and the Burlington Ditch. The Allen Diversion and the Burlington Ditch are the only municipal water supply intakes in the segment. The Burlington Ditch Headgate marks the end of Segment 14.</p> <p>Land use in the Urban South Platte Watershed is approximately 85% residential and open space; 15% is</p>	<p><b>Future Activities:</b> The reports associated with the above TMDLs indicates that the WQCD would begin requiring its applicable permittees to implement BMPs to identify and remove illicit discharges to the MS4 to ensure that dry weather discharges do not potentially contribute to an exceedance of water quality standards. The reports indicate that the Division would work with stakeholders in the segment, such as the Denver Department of Environmental Health, South Platte Coalition for Urban River Evaluation, and Urban Drainage and Flood Control District to maintain and improve the current level of sampling on the segment.</p>

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<p><b>COSPUS15</b> South Platte River, Burlington Ditch to Big Dry Creek</p> <p>Sources: WQCD 2000, 2006d, 2010e.</p>	<p>Dissolved oxygen (DO)</p>	<p>The WQCD has completed TMDLs for segment COSPUS15 for cadmium and DO. At the time the TMDLs were prepared, further monitoring in the segment showed that DO standards were being met. Modeling performed at the same time, however, suggested that if all point sources in the segment were to discharge simultaneously at the levels authorized in their discharge permits, the DO standards would be exceeded. As a result, the WQCD completed a TMDL for DO instead of delisting the segment from the CWA section 303(d) list. The Division attributed the source of the cadmium impairment in the segment to groundwater plumes that originate under or near the Globeville ASARCO facility, a metal smelting site, and the Argo site, a mine drainage site.</p>	<p>commercial and industrial. Industrial and commercial areas are adjacent to the river.</p> <p>Segment 15 of the South Platte River begins in the northern portion of the Denver metropolitan area and flows northward into Weld County. Specifically, the segment begins at the headgate of the Burlington Ditch (near 52nd Avenue and near the border between the City and County of Denver and Adams County) and ends at the confluence with Big Dry Creek in Weld County (about 1 mile south of the City of Fort Lupton). The Hydrologic Unit Code is 10190003.</p> <p>Segment 15 is surrounded by a variety of land uses. Segment 14, immediately upstream, is intensely urbanized. The upstream portion of segment 15 is within the northern part of the metropolitan Denver area and is also urbanized, but less intensively. As the river nears 96th Avenue, it enters a transition from urban open space and agricultural uses with dispersed residential development. Between 64th Avenue and the Weld County line, there are also intensive gravel extraction activities immediately adjacent to the river. As the river passes through the City of Brighton, it passes through a small urban zone and then returns to agricultural land uses further downstream.</p> <p>The flow in segment 15 is largely controlled for agricultural and municipal uses of water. During winter months, the entire upstream flow of the South Platte River is often diverted at the Burlington headgate for agricultural uses in Adams and Weld Counties. At such times, over 90% of the flow in the river comes from wastewater treatment plant discharges, groundwater seepage, and very small ungaged tributaries. The largest discharger to segment 15 is the Metro Wastewater Reclamation District which discharges about 2 miles downstream of the Burlington headgate (near the confluence of the South Platte River with Sand Creek). The South Adams County Water and Sanitation District and the City of Brighton also discharge treated effluent to the river.</p> <p>There are two major tributaries to the South Platte in segment 15: Sand Creek and Clear Creek. Big Dry Creek marks the end of the segment. Historically, Sand Creek was an intermittent stream, but recently it has discharged steadily because of urbanization, which has led to increased wastewater discharges and groundwater seepage into Sand Creek. Most of the flow in Clear Creek is diverted for municipal and agricultural uses before</p>	<p><b>Current Strategies:</b></p> <ul style="list-style-type: none"> <li>◆ DO—The Metro Wastewater Reclamation District will construct all reaeration structures and other physical improvements in the channel that are necessary to meet the DO standards. The requirement will be included in the discharger’s permit. The structures are to be constructed in an upstream to downstream progression that will facilitate monitoring of the performance achieved by each set of improvements.</li> <li>◆ DO—Require all dischargers to segment to have permit limits for total ammonia based on levels specified in the TMDL.</li> <li>◆ DO—Evaluate discharges into Segment 14, Clear Creek and Sand Creek. If the potential discharge of ammonia from a discharger or set of dischargers would cause the ammonia concentration in the tributary at the confluence with Segment 15 to exceed 2 mg/L total ammonia at the regulatory low flow used for the tributary in the TMDL model, then the same total ammonia permit limits in the TMDL would be applied to the dischargers unless more stringent limits apply based on other water quality assessments.</li> <li>◆ DO—Limit biochemical oxygen demand to the secondary treatment maximum of 30 mg/L and 25 mg/L as a monthly average or the current permit limits where those limits are more stringent.</li> </ul> <p><b>Future Strategies:</b> No future remediation activities were identified in the TMDL reports for Segment 15 of the South Platte River.</p>
<p><b>COSPUS15</b> South Platte River, Burlington Ditch to Big Dry Creek</p> <p>Sources: WQCD 2000, 2006d, 2010e.</p>	<p>Cadmium</p>	<p>The WQCD has completed TMDLs for segment COSPUS15 for cadmium and DO. At the time the TMDLs were prepared, further monitoring in the segment showed that DO standards were being met. Modeling performed at the same time, however, suggested that if all point sources in the segment were to discharge simultaneously at the levels authorized in their discharge permits, the DO standards would be exceeded. As a result, the WQCD completed a TMDL for DO instead of delisting the segment from the CWA section 303(d) list. The Division attributed the source of the cadmium impairment in the segment to groundwater plumes that originate under or near the Globeville ASARCO facility, a metal smelting site, and the Argo site, a mine drainage site.</p>	<p>commercial and industrial. Industrial and commercial areas are adjacent to the river.</p> <p>Segment 15 of the South Platte River begins in the northern portion of the Denver metropolitan area and flows northward into Weld County. Specifically, the segment begins at the headgate of the Burlington Ditch (near 52nd Avenue and near the border between the City and County of Denver and Adams County) and ends at the confluence with Big Dry Creek in Weld County (about 1 mile south of the City of Fort Lupton). The Hydrologic Unit Code is 10190003.</p> <p>Segment 15 is surrounded by a variety of land uses. Segment 14, immediately upstream, is intensely urbanized. The upstream portion of segment 15 is within the northern part of the metropolitan Denver area and is also urbanized, but less intensively. As the river nears 96th Avenue, it enters a transition from urban open space and agricultural uses with dispersed residential development. Between 64th Avenue and the Weld County line, there are also intensive gravel extraction activities immediately adjacent to the river. As the river passes through the City of Brighton, it passes through a small urban zone and then returns to agricultural land uses further downstream.</p> <p>The flow in segment 15 is largely controlled for agricultural and municipal uses of water. During winter months, the entire upstream flow of the South Platte River is often diverted at the Burlington headgate for agricultural uses in Adams and Weld Counties. At such times, over 90% of the flow in the river comes from wastewater treatment plant discharges, groundwater seepage, and very small ungaged tributaries. The largest discharger to segment 15 is the Metro Wastewater Reclamation District which discharges about 2 miles downstream of the Burlington headgate (near the confluence of the South Platte River with Sand Creek). The South Adams County Water and Sanitation District and the City of Brighton also discharge treated effluent to the river.</p> <p>There are two major tributaries to the South Platte in segment 15: Sand Creek and Clear Creek. Big Dry Creek marks the end of the segment. Historically, Sand Creek was an intermittent stream, but recently it has discharged steadily because of urbanization, which has led to increased wastewater discharges and groundwater seepage into Sand Creek. Most of the flow in Clear Creek is diverted for municipal and agricultural uses before</p>	<p><b>Current Strategies:</b></p> <ul style="list-style-type: none"> <li>◆ Cadmium—Perform monthly water quality monitoring at 64<sup>th</sup> Avenue on the South Platte River and the contaminated groundwater adjacent to the South Platte River.</li> <li>◆ Cadmium—a third Five-Year Review for the ASARCO Globeville site was completed in September 2009. The remedy for Groundwater and Surface Water, Operable Unit 2 is expected to be protective of human health and the environment upon attainment of groundwater cleanup goals through continued extraction and treatment as well as natural attenuation which is expected to require several decades to achieve.</li> <li>◆ Cadmium—Finalize process with the Colorado Division of Water Resources State Engineer office to notify the Colorado Department of Public Health and Environment before well permits are issued.</li> </ul> <p><b>Future Strategies:</b> No future remediation activities were identified in the TMDL reports for Segment 15 of the South Platte River.</p>

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
			<p>reaching the confluence with the South Platte River; this is especially true during the fall, winter, and early spring. As there are no major reservoirs along Clear Creek, it exhibits some characteristics of a free-flowing stream during spring snowmelt (i.e., it is not uncommon to have high flows from Clear Creek into the South Platte from May into July). There are also a number of irrigation diversions along segment 15 (Fulton, Brantner, Brighton, and Lupton Bottoms). These are direct diversion rights and currently operate only during the agricultural irrigation season (April to September).</p> <p>Over the next 50 years, much of the land along the downstream section of segment 15 is expected to urbanize. The flow regime in the river is also likely to change as agricultural uses of water are converted to municipal use. There is potential for increased discharges of effluent to segment 15 and potential for smaller volumes of water to be carried through segment 15. Over time, these changes could affect DO in the segment, but the nature of the changes is difficult to predict.</p>	
<p><b>COSPUS15</b> South Platte River between Burlington Ditch and confluence with Clear Creek</p> <p>Sources: WQCD 2000, 2006d, 2010e.</p>	<p>Cadmium</p> <p><i>Segment was not in attainment for cadmium standards according to 2010 Integrated Report.</i></p>		<p>That portion of segment 15 that fails to attain standards for cadmium extends from the Burlington Ditch headgate to a point immediately below the confluence with Clear Creek. The aquatic life use-based chronic cadmium standard is exceeded in the South Platte River mainstem from about 58th Avenue until below the confluence with Clear Creek. However, even with the dilution provided by the Metro Wastewater Reclamation District (MWRD) discharge and Sand Creek, the standard is not attained until further dilution with Clear Creek, approximately a mile downstream. MWRD discharges to the South Platte downstream of the weir at 64th Avenue.</p> <p>Flows in the South Platte River are highly regulated; it is subject to a number of diversions as it flows through the metropolitan area, including a major diversion to the Burlington Ditch (also called the O'Brien Canal) at 52nd Avenue. Numerous other ditches divert flows for agricultural and domestic water supply uses. Frequently most of the flow at the upper end of segment 15 is diverted, leaving relatively little flow below the Burlington Ditch. A mile and a half below the Burlington Ditch headgate is the Xcel Energy Cherokee Power Plant discharge point. Another half mile downstream is the MWRD discharge. A contaminated groundwater plume intersects the river near the Cherokee Power Plant outfall, but above MWRD's discharge. The source of</p>	<p><b>Current and Future Strategies:</b></p> <p>Water quality monitoring will determine the extent to which the TMDL implementation plans achieve the compliance goals. Monthly sampling at 64th Avenue on the South Platte River and the contaminated groundwater adjacent to the South Platte River will demonstrate the effectiveness of the load allocations.</p> <p>A third Five-Year Review for the ASARCO Globeville site was recently completed in September of 2009. The remedy for Groundwater and Surface Water, Operable Unit 2 (OU2), is expected to be protective of human health and the environment upon attainment of groundwater cleanup goals through continued extraction and treatment as well as natural attenuation, which is expected to require several decades to achieve. Exposure pathways that could result in unacceptable risk to people drinking contaminated groundwater are expected to be controlled when the remedy is complete. A process is being formulated with the Colorado Division of Water Resources State Engineer office to notify the Colorado Department of Public Health and Environment before permits are issued for wells.</p> <p>The area to the east of the Globeville Plant Site to the South Platte River has been identified as having contaminated groundwater. Long-term protectiveness of the OU2 remedial action is in the process of being verified by monitoring of groundwater to fully evaluate the natural attenuation and potential migration of the floodplain plume towards the South Platte River. Current data indicate that levels of arsenic and cadmium exceed the Maximum Contaminant Levels (MCLs). Current</p>



Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
			contamination had been thought to be associated exclusively with the ASARCO Globeville Plant. More recent investigations indicate that a second site, the Argo site, also contributes a portion of the cadmium entering the affected reach. The Argo site is located upgradient of the ASARCO site and the groundwater plume originating under the Argo site flows below the ASARCO site, commingling with contaminated groundwater resulting from operations at the latter site.	monitoring data indicate that the components of the remedy that are in place are functioning as expected, to achieve groundwater cleanup goals. Once full implementation of the remedy is complete, natural attenuation should occur.
<p><b>COSPCL02</b> Mainstem of Clear Creek</p> <p>Source: WQCD 2008a.</p>	<p>Copper Lead Zinc</p> <p><i>Segment was not in attainment for copper and zinc standards according to 2010 Integrated Report.</i></p>	<p>Mining in the watershed began in 1859 and continues today. The Division attributes the high concentration of metals to the historical and current mining activities.</p>	<p>The mainstem Clear Creek headwaters are located at the Continental Divide (elevation 12,000-14,000 feet) near the Eisenhower/Johnson Tunnels and follow Interstate 70 (I-70) east through the towns of Silver Plume, Georgetown, Lawson, Downieville, Dumont, and Idaho Springs. At the junction of I-70 and U.S. 6, Clear Creek continues eastward along U.S. 6 to Golden (elevation 5,500 ft). The headwaters of Clear Creek and its tributaries drain high mountain peaks, alpine tundra, and forested lands within Arapaho National Forest and the Mount Evans Wilderness. The watershed also drains numerous abandoned and a few active mines that discharge water containing metals. Within the mountain valleys, Clear Creek receives runoff from roads and urban areas from the I-70 corridor, Highways 6 and 40, and effluent from several wastewater treatment plants and other permitted operations. There are six major tributaries: South Clear Creek, West Clear Creek, Fall River, Chicago Creek, North Clear Creek, Beaver Brook/Soda Creek, and numerous minor tributaries including Trail Creek. The entire Clear Creek watershed lies within the USGS hydrologic unit code 10190004.</p>	<p><b>Current Activities:</b> Several water quality improvement projects have been undertaken in the watershed per the TMDL reports. Some of these improvements are summarized below:</p> <ul style="list-style-type: none"> <li>◆ In 1983 EPA established the Clear Creek/Central City Superfund Study Area and placed it on the National Priority List for cleanup.</li> <li>◆ In 1987 EPA completed a study of mine tunnel drainages. The TMDL report indicates that numerous studies followed. The studies led to the development of an extensive network of water quality monitoring stations.</li> <li>◆ The Clear Creek Watershed Forum was established in 1990 to bring stakeholders together to develop cooperative water quality improvement strategies and projects.</li> <li>◆ The Forum led to the establishment of the Clear Creek Watershed Initiative in 1991 as a joint project between Coors Brewing Company and the Center for Resource Management to provide leadership and coordination of ecological and recreational improvements in the Clear Creek Basin. Long-term improvement projects have focused on four critical areas: water quality, fish and wildlife, public utilization and stream flow augmentation.</li> <li>◆ The nonprofit Clear Creek Watershed Foundation (CCWF) was founded in 1997. In addition to remediation, the CCWF promotes and facilitates improved water quality through sustainable watershed management, which integrates ecological, economic, and social perspectives. EPA Region 8 awarded the organization with a Regional Priorities grant in 2008 to enable the group to research and develop a sustainable watershed management strategy for the Clear Creek Watershed.</li> <li>◆ The Argo Tunnel in Idaho Springs was the largest single source of metals contamination to the mainstem of Clear Creek. In 1998, a 700 gallon per minute (gpm) treatment facility was constructed and began full-time operation. The plant prevents approximately 1,200 pounds of metals being discharged to Clear Creek each day.</li> </ul>
<p><b>COSPCL03a</b> Mainstem of South Clear Creek</p> <p>Source: WQCD 2008a.</p>	<p>Zinc</p> <p><i>Segment was not in attainment for zinc standards according to 2010 Integrated Report.</i></p>			
<p><b>COSPCL03b</b> Mainstem of Leavenworth Creek</p> <p>Source: WQCD 2008a.</p>	<p>Lead Zinc</p> <p><i>Segment was not in attainment for lead and zinc standards according to 2010 Integrated Report.</i></p>		<p>The tributaries included in the TMDL are South Clear Creek, Leavenworth Creek, Mad Creek (tributary to West Clear Creek), Fall River, and Trail Creek. Leavenworth and South Clear Creek drain several high mountain lakes (13,000 feet) near Guanella Pass, and flow north to their confluence above Georgetown (WQCC 2006a as cited in WQCD 2008a). Nine mine tunnels are known to exist within the watershed of South Clear Creek, and six are known within the watershed of Leavenworth Creek (EPA 2004 as cited in WQCD 2008a). Mad Creek drains the mountains of the Continental Divide (13,000 feet) near Berthoud Pass and then flows southeast to its confluence with the West Fork Clear Creek above the town of Empire. The mouth of West Fork Clear Creek is located at the junction of U.S. 40 and I-70 where it flows into the mainstem.</p>	
<p><b>COSPCL06</b> Mad Creek</p> <p>Source: WQCD 2008a.</p>	<p>Zinc</p> <p><i>Segment was not in attainment for zinc standards according to 2010 Integrated Report.</i></p>			
<p><b>COSPCL09a</b> Mainstem of Fall River</p> <p>Source: WQCD 2008a.</p>	<p>Copper</p> <p><i>Segment was not in</i></p>			

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
	<i>attainment for copper standards according to 2010 Integrated Report.</i>			
<p><b>COSPCL09b</b> Trail Creek and tributaries</p> <p>Source: WQCD 2008a.</p>	<p>Cadmium Copper Lead Zinc</p> <p><i>Segment was not in attainment for cadmium, copper, lead or zinc standards according to 2010 Integrated Report.</i></p>		<p>Fall River drains numerous high mountain lakes near the Continental Divide as well as St. Mary’s glacier and the town of Alice. Fall River flows southeast to its confluence with the mainstem between the towns of Dumont and Idaho Springs. Nineteen mine tunnels are known to exist within the watershed of Fall River. The Fall River is also known to have reproducing brook and brown trout populations. The headwaters of Trail Creek are located south of the town of Lawson. Trail Creek then flows east to its confluence with the mainstem just downstream of Fall River. Twelve mine tunnels are known to exist within the small watershed of Trail Creek.</p>	<ul style="list-style-type: none"> <li>◆ Superfund cleanup work on the mainstem of Clear Creek has been completed. Continuing efforts are focused on North Clear Creek and include capping and removal of priority tailings/waste rock piles in the North Fork; treatment of discharges from the Gregory Incline and National Tunnels; collection and treatment of the drainage/groundwater in Gregory Gulch; and sediment control to North Clear Creek and its tributaries.</li> <li>◆ Remediation of the Castleton Mine Dump began in 2008. The objective of the project is to remove mine waste from drainages and consolidate waste in on-site disposal areas within the Virginia Canyon watershed. The disturbed areas are to then be re-seeded and re-vegetated.</li> <li>◆ In 2008, the CCWF sponsored the Gilson Gulch Orphan Mine remediation project, which involved installation of sediment traps, run-on/run-off controls, and removal of waste piles from the drainage.</li> <li>◆ The Clear Creek Watershed Association drafted a proposal for changes to ambient water quality standards in both the North Fork Clear Creek and mainstem Clear Creek for the Temporary Modification Hearing in December 2008.</li> </ul> <p><b>Future Activities:</b> The report associated with the Clear Creek TMDLs for copper, lead, zinc and cadmium identifies ongoing Comprehensive Environmental Response, Compensation, and Liability Act remediation as the likely future activities in the watershed. The specific remediation activities, however, are not identified beyond those already noted.</p>
<p><b>COSPCL11</b> Mainstem of Clear Creek</p> <p>Source: WQCD 2008a.</p>	<p>Cadmium Lead Zinc</p> <p><i>Segment was not in attainment for cadmium, lead or zinc standards according to 2010 Integrated Report.</i></p>			
<p><b>COSPCL13b</b> North Fork Clear Creek</p> <p>Source: WQCD 2008c.</p>	<p>Cadmium Iron Manganese Zinc</p> <p><i>Segment was not in attainment for cadmium, iron, manganese or zinc standards according to 2010 Integrated Report.</i></p>	<p>The Division has completed a TMDL for the North Fork of Clear Creek (segment COSPCL13b) addressing cadmium, iron, manganese, and zinc. The TMDL identifies historical mining in the watershed as the predominate source of the heavy metals.</p>	<p>The headwaters of North Clear Creek are northwest of Central City and Black Hawk (elevation 12,000 feet). The creek then flows southeast 17.3 miles to its confluence with mainstem Clear Creek (elevation 7,000 feet). Several tributaries flow into the mainstem including Chase Gulch, Russell Gulch and Four-Mile Gulch. The larger North Clear Creek watershed is separated into two segments based on the water quality impacts from historical mining activities. The upper portions of the watershed (Segment 13a), which includes the mainstem and all tributaries above the lowest water supply intakes, have better water quality than the lower portion of the watershed (Segment 13b). The North Clear Creek drainage basin is characterized by steep-walled canyons and narrow valley floors, and the stream channel is typically 10-20 feet wide (Tetra Tech 2004 as cited in WQCD 2008c). North Clear Creek flows along Highway (Hwy.) 119 through</p>	<p><b>Current and Future Activities:</b> The report associated with the North Clear Creek TMDLs for the referenced pollutants and aquatic life use indicates that ongoing Superfund activities will be the primary means through which the metals concentrations will be addressed</p>

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
			<p>the town of Black Hawk to the Hwy. 119/Hwy. 6 junction where North Clear Creek flows into the mainstem Clear Creek. Numerous abandoned mines discharge water containing metals into North Clear Creek and its tributaries. Discharge from the operational Bates Hunter Mine is treated. Within the mountain valley, North Clear Creek receives road runoff from Hwy. 119, urban runoff from Central City and Black Hawk, and effluent from a wastewater treatment plant and other permitted operations.</p> <p>The Clear Creek/Central City area is one of the most extensively mined areas in Colorado. Mining activities began in the area in 1859, when placer gold was found at the mouth of Chicago Creek and in Gregory Gulch between Central City and Black Hawk. As the surficial ore zones were depleted, underground mining and workings were required to access the Tertiary age veins and stocks that contain the sulfide-rich ores, which are host to the precious metals, gold and silver. The sulfide ores also contain other metals such as iron, copper, lead, nickel, zinc, cadmium, and manganese. Drainage became a significant problem to the area mines as mining depths increased. Like other mining districts in Colorado, the drainage problems were alleviated by driving tunnels below the level of most mine workings. These historical mining operations have resulted in numerous inactive mines and waste piles that permeate the landscape throughout the Clear Creek basin (Tetra Tech 2004 as cited in WQCD 2008c).</p>	
<p><b>COSPBO04a</b> Gamble Gulch  Source: WQCD 2009.</p>	<p>Copper Zinc pH  <i>Segment was not in attainment for copper, zinc or pH standards according to 2010 Integrated Report.</i></p>	<p>The TMDL report identifies the source of the metals to be historical mining activity in the watershed since the 1850s. The inactive Tip Top Mine near Rollinsville in Gilpin County, Colorado appears to be the primary mine source.</p>	<p>This listed portion of the South Platte Watershed is part of the South Platte Boulder Creek Basin, Hydrologic Unit Code 10190005 and is located in Gilpin County. The upper basin of the Boulder Creek watershed, which includes South Boulder Creek and Gamble Gulch, is composed primarily of Precambrian siliceous metamorphic and granitic rocks. These rocks consist of gneisses and schists (1,800 million years old) that were intruded by the Boulder Creek Granodiorite (1,700 million years old) and the Silver Plume Granite (1,400 million years old). In addition, early- and middle-Tertiary (30 to 60 million years old) deposits of metallic ores associated with intrusive dikes and sills are found in the upper basin. Deposits of gold, silver, tungsten, copper, lead, zinc, tin, and uranium were mined in the upper watershed beginning in 1859 (Lovering and Goddard 1950; Bilodeau et al 1987; USGS 2000 as cited in WQCD 2009).</p>	<p><b>Current Activities:</b> The TMDL report notes that from 1994 to 1999, River Watch and the Logan School for Creative Learning received nonpoint source funding to construct a wetland in Gamble Gulch to treat metals through phytoremediation. The project was not ongoing.</p> <p><b>Future Activities:</b> While the TMDL report indicates that additional monitoring is not planned, it does recommend such monitoring if remediation for cadmium, copper and zinc is undertaken in the watershed. The report also suggests that it would be beneficial if additional water quality and flow monitoring of the drainage from the Tip Top Mine and from Gamble Gulch upstream and downstream of the mine were undertaken. The information would inform future remediation and restoration activities.</p>
<p><b>COSPBO04a</b> Gamble Gulch  Source: WQCD 2010c</p>	<p>Cadmium Zinc  <i>Segment was not in attainment for</i></p>			

Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
	cadmium or zinc standards according to 2010 Integrated Report.		<p>South Boulder Creek is part of the headwaters reach of the Boulder Creek watershed, and it receives transbasin water diverted from Denver Water’s collection systems in the Fraser and Williams Fork basins via the Moffat Tunnel. The headwater region is sparsely populated, but can be affected by recreation, air pollution, historical mining activity, road runoff, and mountain cabins (USGS 2000 as cited in WQCD 2009).</p> <p>The drainage area of the South Boulder Creek watershed is 338 kilometers squared and has a mean elevation of 2,620 meters. The mean annual precipitation is approximately 582.9 millimeters. The headwaters region, of which Gamble Gulch is a component, is snowmelt dominated. Heavy metal pollution results from combination of both natural and anthropogenic sources, heavily dominated by acid mine drainage from the Tip Top Mine, an abandoned mine site.</p>	
<p><b>COSPBO09</b> Boulder Creek, South Boulder Creek to Coal Creek</p>	<p>Ammonia</p> <p><i>Segment was not in attainment for ammonia standards according to 2010 Integrated Report.</i></p>	The TMDL is archived. <sup>2</sup>		
<p><b>COSPBO10</b> Boulder Creek, Coal Creek to St. Vrain</p>	<p>Ammonia</p> <p><i>Segment was not in attainment for ammonia standards according to 2010 Integrated Report.</i></p>	The TMDL is archived. <sup>2</sup>		
<p><b>COSPSV03</b> St. Vrain Creek, Hygiene Road to South Platte River</p>	<p>Ammonia</p> <p><i>Segment was not in attainment for ammonia standards according to 2010 Integrated Report.</i></p>	The TMDL is archived. <sup>2</sup>		
<p><b>COSPSV04</b> Little James Creek</p> <p>Source: WQCD 2002a.</p>	<p>pH Cadmium Iron Manganese Zinc</p>	<p>The TMDL report identifies historical mining as the primary culprit for the high metals concentrations. Burlington Mine, Argo</p>	<p>James and Little James Creeks are part of the Colorado Headwaters Hydrologic Unit Code 10190005. Both are located in Boulder County just north of Boulder, Colorado. Little James Creek flows into James Creek, which flows into Left Hand Creek. Left Hand Creek enters the St. Vrain River near Longmont, Colorado. The water quality in James</p>	<p><b>Current Activities:</b> The TMDL report indicates that voluntary remediation activities are planned or underway within the Balarat Gulch but does not go into detail on the activities.</p> <p><b>Future Activities:</b> The TMDL report indicates that if the voluntary remediation activities</p>



Segment No. and Portion Description	Pollutant(s) Addressed (TMDL Date)	Source(s)	Watershed Description	Current and Possible Future Strategies Identified in TMDL Reports <sup>1</sup>
	<p><i>Segment was not in attainment for pH, manganese or zinc standards according to 2010 Integrated Report.</i></p>	<p>Mine, and Emmit Mine have been identified as contributing metals-laden drainages to Little James Creek.</p>	<p>Creek and Little James Creek is affected by the discharges from various mines, waste rock and mine tailings in the area. The drainage area encompasses the historical Captain Jack and Golden Age mining districts. These areas were mined for gold, lead, silver, flourspar (calcium fluoride), and uranium.</p> <p>The James Creek watershed covers approximately 36 square miles from its source above the Peak-to-Peak Highway near Ward to its confluence with Left Hand Creek. The Golden Age Mining District contributes runoff to James Creek. While Jenks Gulch, Castle Gulch, Hill Gulch and other drainages may be contributing metals to James Creek, there are no discrete flows from these areas to the stream. James Creek and Little James Creek converge at the western edge of Jamestown. The Little James Creek watershed area only encompasses about 3 square miles. Little James Creek is affected by high concentrations of dissolved metals and low pH waters.</p>	<p>undertaken in Balarat Gulch are insufficient to reduce the metals concentration and pH to standards attainment levels, additional remediation activities will need to be developed. These would likely entail chemical/physical treatment for metals removal involving pH adjustment and/or removal of low pH contributions from adits and waste piles. The TMDL report recommends monitoring to evaluate improvements in site conditions as remediation is undertaken. Specifically, it advocates at least quarterly sampling for pH, total suspended solids, and the dissolved metals (aluminum, cadmium, copper, iron, lead, manganese, and zinc), and total recoverable iron. The minimum sampling sites recommended include waters in Balarat Gulch, the Burlington Mine effluent, upstream and downstream of the Argo, the Emmet (when flow is adequate), and at the mouth of Little James Creek.</p> <p>The report further suggests that attainment of standards should be measured below the confluence of Balarat Gulch and Little James Creek (and/or at the outfall from a diversion/treatment system) and at the mouth of Little James Creek. Attainment should be evaluated at the end of cleanup/remedial activities at the site and after any treatment facilities have been installed and allowed to operate for 3 or 4 years. This timeframe allows for treatment system optimization and stabilization to occur after remedial activities.</p>
<p><b>Middle South Platte River Sub-Basin</b></p>				
<p><b>COSPCP07</b> North Fork Cache la Poudre River, Hall Reservoir to Cache la Poudre River</p>	<p>Sediment</p>	<p>The TMDL is archived.<sup>2</sup></p>		
<p><b>Lower South Platte River Sub-Basin</b></p>				
<p><i>Currently, no TMDLs have been completed and approved for segments in the Lower South Platte River Sub-Basin.</i></p>				

<sup>1</sup>The strategies indicated are those noted in the TMDL reports as those taking place at the time the TMDL was developed and those projected for the future. The exhibit does not report on the current status of any of these activities as this information was not readily available for the first SWQMP.

<sup>2</sup> Archived TMDLs may be obtained by sending an email to [comments.wqcd@state.co.us](mailto:comments.wqcd@state.co.us). Due to time and resource constraints, these TMDLs were not accessed and reviewed for the first SWQMP.

**Exhibit 11-78. in text**

**Exhibit 11-79. in text**

**Exhibit 11-80. North Platte River Sub-Basin Point Source Projects and Scheduled Improvements<sup>1</sup>**

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Jackson	CO0020788	NPDES 9/30/2009 Effective	Walden, Town of 50 First Street Walden, CO 80480	CWNS, NPDES, and IUP <sup>3</sup>	050059W	B	WWT	New or Improvements to Biosolids Handling Facility	\$400,000	750
	COG650011	NPDES Gen. 10/19/2012 Effective								
<b>Total for Jackson County</b>									<b>\$400,000</b>	
<b>Total Estimated Cost All Projects</b>									<b>\$400,000</b>	

<sup>1</sup> Note that this table identifies only NPDES facilities as contained in the publicly available data sources evaluated. Therefore, it should not be considered an all-inclusive list.

<sup>2</sup> For a review of the various NPDES permit types issued by Colorado, consult chapter 3 of the SWQMP.

<sup>3</sup> USEPA 2010a, 2010d; WQCD 2010b.

<sup>4</sup> IUP = Intended Use Plan (WQCD 2010b).

<sup>5</sup> The 2010 IUP contains several appendices containing listings of projects. Appendix B is a list of the current construction needs for all identified eligible water quality projects (i.e., project eligibility list) including point source treatment, nonpoint source, stormwater, and source water assessment projects. Appendix C lists projects that are likely to be funded with Water Pollution Control Revolving Funds loans in 2010. For those projects included in appendix A, the loan value is sometimes lower than the estimated cost. Only the estimated cost as shown in appendix B is shown in this table.

<sup>6</sup> Project type categories include the following: WWT = advanced or secondary wastewater treatment, including infiltration and inflow correction, NPS = nonpoint source control project, StW = stormwater project, and SWP = source water protection project.

Exhibit 11-81. Upper South Platte River Sub-Basin Point Source Projects and Scheduled Improvements<sup>1</sup>

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Adams	-		88th at Dahlia / Thornton	CWNS						
	-		Adams County NPS Conservation	CWNS and IUP	030001W	B	NPS	Nonpoint Source Project	\$1,000,000	363,857
	R050004	NPDES	Aggregate-Brighton Ready Mix Aggregate Industries-WCR Inc. Brighton, CO 80601	NPDES						
	G650024	NPDES Gen. 10/19/2012 Effective	Big Dry Creek WWTF <sup>7</sup> 13150 North Huron Street Westminster, CO 80234	NPDES						
	0024171	NPDES 8/31/2007 Expired		NPDES						
	0021547	NPDES 1/31/2007 Admin. Continued	Brighton, City of 325 North Kuner Road Brighton, CO 80601	CWNS and NPDES						
		NPDES 1/31/2007 Admin. Continued								
	G650030	NPDES Gen. 10/19/2012 Effective								
	-		Brighton Stormwater	CWNS						
	0026409	NPDES 7/31/2007 Expired	Broomfield WWTP <sup>8</sup>	CWNS						
	R230268	NPDES 2/16/2011 Effective	Dahlia Plant 4801 East 78th Avenue Commerce City, CO 80022	NPDES						
101055		Federal Heights, City of	CWNS and IUP	050020W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$1,308,000	13,000	
R090038				050021W	B	Stw	Stormwater Project	\$1,106,000	13,000	



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Adams	R106959		I-25/120th Bridge Replacement I-25 From Mile Marker 222 to Mile Marker 223 Adams County, CO	NPDES						
	0036757	NPDES 7/31/2007 Admin. Continued	Northglenn WWTF 5445 Weld County Road 2 Brighton, CO, 80603	CWNS, NPDES, and IUP	040034W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$8,800,000	35,827
	G650052	NPDES Gen. 10/19/2012 Effective								
	U000105	NPDES	Northglenn, City Of - DU123092	NPDES						
	G650173	NPDES Gen. 10/19/2012 Effective	Orica USA, Inc. 33101 East Quincy Avenue Watkins, CO 80137	NPDES						
	0046221	NPDES 3/31/2007 Admin. Continued		NPDES						
	0046728	NPDES 11/30/2012 Effective	Reverse Osmosis Treatment Facility 4350 East Bromley Lane Brighton, CO 80601	NPDES						
	R107606	NPDES	River Valley Village Subdivision Thornton Parkway and Colorado Boulevard Thornton, CO 80229	NPDES						
	0026662	NPDES 1/31/2007 Admin. Continued	South Adams County Water and Sanitation District 9702 Monaco Street Henderson, CO 80640	NPDES and IUP	090068W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$1,227,965	44,000
					090123W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$9,743,442	45,000
0001147	NPDES 10/31/2011 Effective	Suncor Energy (USA) Inc. 5801 Brighton Boulevard Commerce City, CO 80022	NPDES							

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Adams	R108456	NPDES	Turnberry Meadows East 104th Street and Reverse Street Commerce City, CO 80022	NPDES						
	R10A770	NPDES 3/3/2013 Effective	US and Church Ranch Park N Ride 10452 Town Center Driver Westminster, CO,	NPDES						
	R103760	NPDES 1/4/2006 Admin. Continued	Walnut Grove 10690 Hoyt Street Westminster, CO 80021	NPDES						
	G650085	NPDES Gen. 10/19/2012 Effective	Western Trails LLC-Sylman MHP 12365 Weld County Road 2 Brighton, CO 80601	NPDES						
	0024171	NPDES 8/31/2007 Expired	Westminster Big Dry Creek WWTF	CWNS and IUP	030284W	B	NPS	Nonpoint Source Project	\$5,000,000	110,000
					100071W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction	\$1,250,000	108,710
					100072W	B and C	WWT	Reuse Facility; Green Infrastructure, Water Efficiency, Energy Efficiency	\$1,890,000	108,710
					100073W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction	\$675,000	108,710
					100074W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction	\$1,500,000	108,710
					100075W	B and C	WWT	Reuse Facility; Green Infrastructure, Water Efficiency, Energy Efficiency	\$16,000,000	108,710

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Adams	--		Westminster NPS Waterbody Protect	CWNS						
	G650027	NPDES Gen. 10/19/2012 Effective	Williams Monaco WWTP 9702 Monaco Street Henderson, CO 80640	NPDES						
<b>Total for Adams County</b>									<b>\$49,500,407</b>	
Arapahoe	G650029 (0040681)	NPDES Gen. 10/19/2012 Effective	Arapahoe County Water and Wastewater Authority 13031 East Caley Avenue Englewood, CO 80112	CWNS, NPDES, and IUP	040049W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation; Reuse Facility	\$31,500,000	20,000
					090116W	B	Stw	Stormwater Project	\$589,667	20,000
					090127W	B	WWT	Green Infrastructure, Water Efficiency, Energy Efficiency	\$4,760,900	20,000
	S000003	NPDES	Aurora, City Of - Municipal Stormwater Discharge Aurora, CO 80011	NPDES and IUP	100001W	B and C	WWT	Pier Point 7 Master Council GID - Collection System and/or Interceptor Construction or Rehabilitation	\$3,220,000	1,040
					090086W	B	WWT	Potomac Sewer Line - Collection System and/or Interceptor Construction or Rehabilitation	\$3,000,000	314,000
					090087W	B	WWT	Sanitary Sewer Rehabilitation - Green Infrastructure, Water Efficiency, Energy Efficiency	\$5,000,000	314,000
					090085W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$4,500,000	314,000

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Arapahoe	--		Cherry Creek Basin Authority NPS	CWNS and IUP	100023W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$300,000	52
					090063W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$576,290	151
					030048W	B	NPS	Nonpoint Source Project	\$9,500,000	5,001
	0039845	NPDES 11/30/1994 Admin. Continued	Cottonwood Water and Sanitation District WWT 2 Inverness Drive East Englewood, CO 80112	NPDES						
	--		East Cherry Creek Valley Stormwater	CWNS and IUP	040016W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$500,000	50,000
	G650170	NPDES Gen. 10/19/2012 Effective	Foxridge Farm MHC WWTP 26900 East Colfax Aurora, CO 80018	NPDES						
	0028908	NPDES 9/30/2007 Expired	Foxridge Farms MH Community 26900 East Colfax Avenue Aurora, CO 80018	NPDES						
	G650016	NPDES Gen. 8/16/2007 Expired	Glendal, City Of 4360 East Virginia Avenue Glendale, CO 80246	NPDES						
	R090003	NPDES	Glendale Stormwater	CWNS and IUP	040044W	B	Stw	Stormwater Project	\$1,000,000	4,500
	R10B621	NPDES 7/27/2013 Effective	Glendale WWTR Decommissioning, Clermont and East Virginia Avenue Glendale, CO	NPDES						
	00040681	NPDES 12/31/2010 Effective	Inverness Water and Sanitation District 70 Inverness Lane East Englewood, CO, 80112	CWNS, NPDES, and IUP	080050W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$250,000	7,100
	0038679	NPDES 9/30/2000 Admin. Continued								
	G650109	NPDES Gen. 10/19/2012 Effective	Inverness Water and Sanitation District 96 Inverness Drive East, Site M Englewood, CO 80112	NPDES						



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Arapahoe	0047589	NPDES 8/31/2013 Effective	Joint Water Purification Plant 8021 South Jordan Road Centennial, CO 80112	NPDES						
	R104129	NPDES	I225 and Iliff Avenue Interchange State Highway I225 Mile Marker 5.2 to Mile Marker 5.7 Arapahoe County, CO	NPDES						
	0032999	NPDES 4/30/2006 Admin. Continued	Littleton/Englewood, Cities Of 2900 South Platte River Drive Englewood, CO 80110	NPDES and IUP	080016W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$14,000,000	300,000
	G650019	NPDES Gen. 10/19/2012 Effective	Littleton/Englewood WWTP 2900 South Platte River Drive Englewood, CO 80110	NPDES and IUP	090119W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$4,500,000	100,000
	0040681	NPDES 12/31/2010 Effective	Lone Tree Creek WWTP 13031 East Caley Centennial, CO 80111	NPDES						
	G650017	NPDES Gen. 10/19/2012 Effective	Marcy Gulch WWTP 8700 South Santa Fe Drive Littleton, CO 80125	NPDES						
	G650176	NPDES Gen. 10/19/2012 Effective	Meridian Metropolitan District 12112 Belford Avenue Englewood, CO 80112	NPDES						
	R103975	NPDES 10/05/2005 Admin. Continued	Multi-Modal Project I-25 Between Broadway and Lincoln Centennial, CO,	NPDES						
	R104293	NPDES 2/25/2013 Effective	Pioneer Hills Subdivision Flg No. 1 5600 South Chambers Road Aurora, CO	NPDES						
R800366	NPDES 11/15/2006 Admin. Continued	Roadway Express Inc-Aurora 14700 Smith Road Aurora, CO 80011	NPDES							

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Arapahoe	G650050	NPDES Gen. 10/19/2012 Effective	Roxborough Park Metropolitan District 11060 West Waterton Road, Littleton, CO 80125	NPDES						
	0041645	NPDES 11/30/2007 Admin. Continued		NPDES						
	0026611	NPDES 10/31/2011 Effective	Sand Creek Water Reuse Facility 11405 East 30th Avenue Aurora, CO 80010	NPDES						
	G650095	NPDES Gen. 10/19/2012 Effective		NPDES						
	-		Sheridan, City of	CWNS and IUP	070017W	B and C	WWT	South Sheridan Industrial Area Sanitary Sewer - Collection System and/or Interceptor Construction or Rehabilitation; Connect to Existing Facility; Eliminate ISDS <sup>9</sup>	\$100,000	5,500
	0047686	NPDES Pending	Silver Leaf Subdivision South Kipling Parkway and West Coal Mine Avenue Littleton, CO, 80127	NPDES						
	G641000	NPDES Gen.	South Englewood #1 SD	CWNS and IUP	050054W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$1,000,000	12,500
	R104740	NPDES 6/30/2006 Admin. Continued	Super Target #T-1806 4301 East Virginia Glendale, CO 80222	NPDES						
	0001511	NPDES	Waterton Facility 12257 South Wadsworth Boulevard Littleton, CO, 80125	NPDES						
<b>Total for Arapahoe County</b>									<b>\$84,296,857</b>	
Boulder	R105933	NPDES	28 Street-Arapahoe Avenue Boulder County Road State Highway 36 from Mile Marker 36.53 to Mile Marker 37.6 Boulder County, CO	NPDES						

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Boulder	0024147	NPDES 1/31/2008 Expired	75th Street WWTP 4049 75th Street Boulder, CO, 80301	NPDES and IUP	090107W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$52,500,000	115,000
	G650038	NPDES Gen. 10/19/2012 Effective	Boulder City Of WWTP/RRS 4049 North 75th Street Boulder, CO 80301	CWNS and NPDES						
	-		Boulder County/Eldorado Springs	CWNS and IUP	030026W	B	WWT	Eldorado Springs LID <sup>10</sup> - New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$2,188,238	300
	0040819	NPDES 7/31/2013 Effective	Boulder Mountain Lodge 91 Fourmile Canyon Road Boulder, CO 80302	NPDES						
	0032751	NPDES 1/31/2011 Effective	Cross and Caribou Mines Caribou, CO 80466	NPDES						
	0047651	NPDES 8/31/2013 Effective	Eldorado Springs WWTF Eldorado Springs, CO 80025	NPDES and IUP	100081W	B and C	WWT	New Wastewater Treatment Plant; Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS; Green Infrastructure, Water Efficiency, Energy Efficiency	\$1,950,000	300
	0045926	NPDES 1/31/2008 Admin. Continued	Erie, Town Of 1000 Briggs Street Erie, CO 80516	NPDES						
	G650166	NPDES Gen.	Erie Water Reclamation Facility Erie, CO	NPDES						

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Boulder	G650014	NPDES Gen. 10/19/2012 Effective	Glacier View Ranch 8748 Overland Road Ward, CO 80481	NPDES						
	0030112	NPDES 8/31/2010 Effective		NPDES						
	G650094	NPDES Gen. 10/19/2012 Effective	Lafayette, City of Douglas Short Lafayette, CO 80026	NPDES						
	0023124	NPDES 1/31/2008 Admin. Continued,	Lafayette, City of 750 East County Line Road Lafayette, CO 80026	NPDES and IUP	090079W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$700,000	27,000
	0020010	NPDES 11/30/2006 Admin. Continued	Lake Eldora Water and Sanitation District 2861 Eldora Ski Road 140 Nederland, CO 80466	NPDES and IUP	030155W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$500,000	150
	G640090	NPDES Gen.	Left Hand Sewage Treatment Plant	CWNS and IUP	030164W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$250,000	150
	G650140	NPDES Gen. 10/19/2012 Effective	Liquid Waste Management, Inc. 204 South Bowen Street Longmont, CO, 80501	NPDES						
	G650009	NPDES Gen. 10/19/2012 Effective	Longmont, City Of 501 East First Avenue Longmont, CO 80501	NPDES and IUP	090133W	B	Stw	Stormwater Project	\$8,500,000	86,000
	0026671	NPDES 1/31/2008 Admin. Continued			090074W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Improvement / New Biosolids Handling Facility; Green Infrastructure, Water Efficiency, Energy Efficiency	\$61,605,000	86,000
100067W					B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$750,000	86,000	



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Boulder	G650010	NPDES Gen. 10/19/2012 Effective	Louisville, City of 1601 Empire Road Louisville, CO 80027	NPDES									
	0023078	NPDES 1/31/2008 Admin. Continued											
	0020877	NPDES 7/31/2007 Expired	Lyons WWTF 198 2nd Avenue Lyons, CO 80540	CWNS, NPDES, and IUP	030174W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$296,000	1,650			
	G650096	NPDES Gen. 10/19/2012 Effective						060007W	B	Stw	Stormwater Project	\$300,000	1,650
								090117W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$9,773,000	1,895
	G650143	NPDES Gen. 10/19/2012 Effective	Mcdonald Farms Enterprises, Inc. 7247 East County Line Road Longmont, CO 80501	NPDES									
	0020222	NPDES 9/30/2009 Effective	Nederland, Town of 343 East Street Nederland, CO 80466	CWNS, NPDES, and IUP	030195W	B and C	WWT	New Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$4,400,000	1,800			
	0021695	NPDES 7/31/2012 Effective	Niwot Sanitation District 7395 North 95th Street Niwot, CO 80504	NPDES									
	G650125	NPDES Gen.		NPDES									

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Boulder	G650144	NPDES Gen. 10/19/2012 Effective	San Lazano Mobile Home Park WWTF 5505 Valmont Road Boulder, CO 80301	NPDES						
	0020184	NPDES 12/31/2006 Admin. Continued		NPDES						
	R108055	NPDES	Sema Construction, Inc. Superior, CO	NPDES						
	R107786	NPDES 1/29/2011 Effective	State Highway 42/96th Street. Connection Dillon And 96th Street Louisville, CO 80027	NPDES						
	G650145	NPDES Gen. 10/19/2012 Effective	Superior Metropolitan District No. 1 2866 South 88th Street Superior, CO 80027	NPDES						
	0043010	NPDES 7/31/2006 Expired		NPDES						
	R10A002	NPDES 8/17/2011 Effective	US 36 and Mccaslin Boulevard Louisville/Superior, CO 80027	NPDES						
	R107962	NPDES 8/17/2011 Effective	US 36/Mccaslin Pedestrian Boulevard US 36 and Mccaslin Louisville/Superior, CO 80027	NPDES						
	R042002	NPDES	U.S. Dept. Of Commerce 325 Broadway Boulder, CO 80305	NPDES						
	0001112	NPDES 11/30/2009 Effective	Valmont Station 1800 North 63 Road Boulder, CO 80302	NPDES						
R108213	NPDES	Vista Ridge Filing 5 State Highway 7 And Mountain View Boulevard Erie, CO 80516	NPDES							
<b>Total for Boulder County</b>									<b>\$143,712,238</b>	

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Broomfield	G650063 (R090054)	NPDES Gen. 10/19/2012 Effective	Broomfield City and County of, WWTF 2985 West 124th Avenue, Broomfield, CO 80020	NPDES and IUP	030036W	B	Stw	Stormwater Project	\$1,500,000	46,000
	0026409	NPDES 7/31/2007 Expired		NPDES and IUP	040007W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility	\$35,000,000	46,000
<b>Total for Broomfield County</b>									<b>\$36,500,000</b>	
Clear Creek	-		Clear Creek/Arapahoe Park	CWNS and IUP	030051W	B	WWT	Arapahoe MHP - Connect to Existing Facility; Eliminate ISDS; Collection System and/or Interceptor Construction or Rehabilitation	\$625,000	325
	-		Clear Creek County/Floyd Hill	CWNS and IUP	030052W	B	WWT	Floyd Hill - New Wastewater Treatment Plant; Connect to Existing Facility; Eliminate ISDS; Collection System and/or Interceptor Construction or Rehabilitation	\$1,000,000	1,500
	G584000 (0020206)	NPDES Gen. 10/31/1999 Expired	Clear Creek Regional WWTP	CWNS and IUP	060019W	B	WWT	Regional Wastewater Initiative - New Regional Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$1,800,000	9,485
	0040835	NPDES 5/31/2009 Effective	Clear Creek Skiing Corporation 12 Miles West of Town Georgetown, CO 80444	NPDES						

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Clear Creek	R106202	NPDES	Colorado Forest Highway Project 7 Street And Argentine To Guanella Georgetown, CO 80444	NPDES						
	G650119 (G581065)	NPDES Gen. 10/19/2012 Effective	Empire, Town of PO Box 100 Empire, CO 80438	NPDES and IUP	030087W	B	WWT	New Regional Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$10,000,000	394
	G584000	NPDES Gen. 10/31/1999 Expired	Empire WWTP	CWNS						
	G650072	NPDES Gen. 10/19/2012 Effective	Georgetown WWTP 2900 Alvarado Road Georgetown, CO 80444	NPDES and IUP	100036W	B	SWP	Source Water Protection	\$50,000	1,080
	0027961	NPDES 8/31/2010 Effective		NPDES and IUP	030114W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$4,000,000	1,111
				NPDES and IUP	100082W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation;	\$1,125,000	1,080
	0041467	NPDES 1/31/2008 Admin. Continued	Henderson Mine Urad Minesite 1746 County Road 202 Empire, CO 80438	NPDES						



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Clear Creek	0041068	NPDES 11/30/2008 Admin. Continued	Idaho Springs, City of 980 County Road 314 Idaho Springs, CO 80452	CWNS, NPDES, and IUP	090118W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation; New or Improvements to Biosolids Handling Facility; Green Infrastructure, Water Efficiency, Energy Efficiency	\$1,100,000	1,885
					030142W	B	WWT	New Wastewater Treatment Plant;	\$9,000,000	1,885
					030141W	B	NPS	Nonpoint Source Project	\$500,000	1,885
					080025W	B	Stw	Stormwater Project	\$5,000,000	1,852
	G650097	NPDES Gen.								
	0047473	NPDES 6/30/2012 Effective	Shwayder Camp of Congregation Emmanuel 9118 State Highway 103 Idaho Springs, CO 80452	NPDES						
	G641000	NPDES Gen.	Silver Plume, Town of	CWNS and IUP	050051W	B	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction; Green Infrastructure, Water Efficiency, Energy Efficiency	\$400,000	200
0023094	NPDES 6/30/2006 Admin. Continued	St. Mary's Glacier Water Sanitation District 7599 Fall River Road Idaho Springs, CO 80452	NPDES							
<b>Total for Clear Creek County</b>									<b>\$34,600,000</b>	
Denver	R600140	NPDES	Adopt-A-Part, Inc. 5060 York Street Denver, CO 80216	NPDES						
	R200845	NPDES 9/06/2012 Effective	A.R. Wilfley And Sons, Inc. 2763 Blake Street Denver, CO 80205	NPDES						
	0001091	NPDES 12/31/2012 Effective	Arapahoe Station 2601 South Platte River Drive Denver, CO 80223	NPDES						

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Denver	R230302	NPDES 5/17/2005 Admin. Continued	Ardco Corporation 8250 East 40th Avenue Denver, CO 80207	NPDES						
	R201226	NPDES 9/6/2012 Effective	Banner Rebar, Inc. 5353 Franklin Street Denver, CO 80216	NPDES						
	R700481	NPDES 2/24/2013 Effective	Bioenergy Of Colorado 2 LLC 4875 National Western Drive Denver, CO 80216	NPDES						
	0001104	NPDES 1/31/2008 Expired	Cherokee Station 6198 Franklin Street Denver, CO 80216	NPDES						
	R150368	NPDES 2/25/2012 Effective	Colorado Paint Company 4747 Holly Street Denver, CO 80216	NPDES						
	R230684	NPDES 5/13/2012 Effective	Colorado Petroleum Products Company Denver, CO 80216	NPDES						
	R120879	NPDES 9/6/2012 Effective	Conagra Foods 3750 Wynkoop Street Denver, CO 80216	NPDES						
	S000001	NPDES	Denver, City and County of Stormwater Discharge Denver County, CO	NPDES						
	R230480	NPDES 3/03/2013 Effective	Denver Industrial Sales 850 South Lipan Street Denver, CO 80223	NPDES						
	S000008	NPDES	Denver International Airport 8500 Pena Boulevard Airport Office Building 7th Floor Denver, CO 80249	NPDES						
	0046329	NPDES 10/31/2011 Effective	Denver Works 1271 West Bayaud Avenue Denver, CO 80223	NPDES						
	R03F285	NPDES	Dia Taxiways 84 Avenue and Allium Street Denver, CO 80249	NPDES						

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Denver	R211167	NPDES 8/14/2012 Effective	Environmental Materials, LLC Environmental Stoneworks Denver, CO 80216	NPDES						
	R231020	NPDES 9/28/2011 Effective	Express Asphalt 1161 West 64th Avenue Denver, CO 80221	NPDES						
	R701016	NPDES 3/30/2011 Effective	Hebert Environmental 801 West 56th Avenue Denver, CO 80216	NPDES						
	R230287	NPDES 9/6/2012 Effective	Intertech Plastics, Inc. East 40th Warehouse Denver, CO 80239	NPDES						
	R600138	NPDES 4/25/2012 Effective	Iron And Metals, Inc. Denver, CO 80216	NPDES						
	R230127	NPDES 9/6/2012 Effective	Kik (Denver), LLC Denver, CO 80207	NPDES						
	R120761	NPDES 8/14/2012 Effective	Manna Pro Partners, L.P. Manna Pro Shop Denver, CO 80216	NPDES						
	0026638	NPDES 2/28/2013 Effective	Metro Wastewater Reclam District 6450 York Street Denver, CO 80229	NPDES and IUP	090027W	B and C	WWT	New Regional Wastewater Treatment Facilities; Consolidation of Wastewater Treatment Facilities; Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$300,000,000	1,600,000
	G650106	NPDES Gen. 10/19/2012 Effective								
	R120804	NPDES 8/14/2012 Effective	Mile Hi Express, Inc. Denver, CO, 80205	NPDES						
R230463	NPDES 9/6/2012 Effective	Quality Linings Company, Inc. 8250 East 40th Avenue Denver, CO 80207	NPDES							

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Denver	R230122	NPDES 9/6/2012 Effective	Siegel Oil Company 1380 Zuni Street Denver, CO 80204	NPDES						
	R140784	NPDES 4/25/2012 Effective	Tharco Containers Colorado Inc. Denver, CO, 80239	NPDES						
	0043427	NPDES 7/31/2012 Effective	Thermal Energy Distribution 1875 Delganey Street Denver, CO 80202	NPDES						
	R800747	NPDES 4/25/2012 Effective	Union Pacific Railroad Company Burnham Shops Denver, CO 80204	NPDES						
	R800748	NPDES	Union Pacific Railroad Company North Yard Denver, CO 80021	NPDES						
	R230296	NPDES 3/14/2012 Effective	Yard B 4090 Galapago Street Denver, CO 80216	NPDES						
	0001139	NPDES 1/31/2007 Admin. Continued	Zuni Plant 1335 Zuni Street Denver, CO 80204	NPDES						
<b>Total for Denver County</b>									<b>\$300,000,000</b>	
Douglas	0045993	NPDES 8/31/2006 Admin. Continued	Camp Shady Brook 8716 South Y Camp Road Sedalia, CO 80135	NPDES						
	R080012	NPDES	Castle Rock Storm Water	CWNS and IUP	030298W	B	Stw	Stormwater Project	\$400,000	20,224
	0042056	NPDES	Castle Rock, Town of	CWNS and IUP	030042W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Reuse Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$6,600,000	20,224
	0037966	NPDES 10/31/2012 Effective	Centennial Water And Sanitation District 8700 South Santa Fe Drive Highlands Ranch, CO 80125	NPDES						



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Douglas	0039845	NPDES 11/30/1994 Admin. Continued	Cottonwood Water and Sanitation District	CWNS and IUP	080043W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$250,000	1,200
	-		Douglas County - Louviers WWTP	CWNS						
	R108697	NPDES 2/5/2011 Effective	East Main Street Phase 3 Project East Main Street and Pine Parker, CO 80134	NPDES						
	R106424	NPDES	I-25 And Castle Pines Parkway Interstate I25 From Mile Marker 188.1 To Mile Marker 189.1 Douglas County, CO	NPDES						
	X035891	NPDES 12/31/2004 Expired	Larkspur Lagoon	CWNS and IUP	030160W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; New Regional Wastewater Treatment Facilities; Connect to Existing Facility; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	\$3,000,000	250
	0046710	NPDES 4/30/2010 Effective	Lost Valley Ranch 29555 Goose Creek Road Sedalia, CO 80135	NPDES						
	0039110	NPDES 6/30/2001 Admin. Continued	Meridian Metropolitan District	CWNS and IUP	080051W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$250,000	225

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Douglas	0046507	NPDES 9/30/2008 Admin. Continued	Parker Water and Sanitation District 10301 South Twenty Mile Road Parker, CO 80138	NPDES and IUP	090028W	B	WWT	New Wastewater Treatment Plant; New Regional Wastewater Treatment Facility; Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; New or Improvements to Biosolids Handling Facility; Reuse Facility; Collection System and/or Interceptor Construction or Rehabilitation; Elimination of Combined Sewer / Sanitary Sewer Overflow; Eliminate ISDS	\$40,000,000	39,060
	G650015	NPDES Gen. 10/19/2012 Effective	Parker Water and Sanitation District 18201 East Plaza Drive Parker, CO 80134	NPDES						
	0022551 (0043004)	NPDES 9/30/2010 Effective	Perry Park WWTP	CWNS and IUP	030215W	B	WWT	New Regional Wastewater Treatment Facilities; Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	\$4,800,000	3,400
	0041092	NPDES 9/30/2010 Effective	Pinery Water and Wastewater Reclamation Facility 6516 North State Highway 83 Parker, CO 80134	CWNS and NPDES						
G650026	NPDES Gen. 10/19/2012 Effective									

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Douglas	G650032	NPDES Gen. 10/19/2012 Effective	Plum Creek Waste Water Authority 4255 North Highway 85 East Castle Rock, CO 80108	NPDES						
	0038547	NPDES 9/30/2008 Admin. Continued								
	0043044	NPDES 2/28/2010 Effective	Sageport WWTF 501 Tenderfoot Drive Larkspur, CO 80118	NPDES						
	G650174	NPDES Gen. 10/19/2012 Effective	Spring Valley Ranch Metropolitan District 9735 East Tom Tom Drive Parker, CO 80128	NPDES						
	0040291	NPDES 7/31/2008 Admin. Continued	Stonegate Village Metropolitan District 9145 South Jordan Road Parker, CO 80134	CWNS, NPDES, and IUP	080029W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities	\$28,500,000	8,500
	G650023	NPDES Gen. 10/19/2012 Effective		NPDES						
	G650121	NPDES Gen. 10/19/2012 Effective	Waucondah Wastewater Treatment Plant 5121 Country Club Drive Larkspur, CO 80118	NPDES						
	0022551	NPDES 9/30/2010 Effective		NPDES						
<b>Total for Douglas County</b>									<b>\$83,800,000</b>	
Gilpin	0043168	NPDES 3/31/2013 Effective	Bates Hunter Mine 422 Gregory Street Central City, CO 80427	NPDES						
	0046761	NPDES 8/31/2010 Effective	Black Hawk/Central City Sanitation District 1601 Highway 119 Black Hawk, CO 80403	NPDES and IUP	050005W	B	NPS	Nonpoint Source Project	\$2,250,000	117
	G650007	NPDES Gen. 10/19/2012 Effective	Black Hawk Central City Sanitation 470 Main Street Black Hawk, CO 80422	NPDES and IUP	090029W	B	SWP	Source Water Protection	\$770,000	108

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Gilpin	0043249	NPDES 8/31/2010 Effective	Bullwhackers Black Hawk 101 Gregory Street Black Hawk, CO 80422	NPDES						
	R105480	NPDES	Central City Southern Access 615 Lake Gulch Road Central City, CO 80427	NPDES						
	0046761	NPDES	Central City - Stormwater	CWNS and IUP	080003W	B	Stw	Stormwater Project	\$1,000,000	700
	0047554	NPDES 4/30/2013 Effective	E and W Portals of Moffat Tunnel Gilpin County, CO	NPDES						
	-		Gilpin County School District NPS	CWNS and IUP	030117W	B	NPS	Gilpin County School District RE-1 - Nonpoint Source Project	\$75,000	4,000
<b>Total for Gilpin County</b>									<b>\$4,095,000</b>	
Jefferson	X046591	NPDES 4/30/2009 Effective	Aspen Park Metropolitan District	CWNS and IUP	080041W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$250,000	350
	0631016	NPDES			100054W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$4,000,000	
	-		Aspen Park NPS	CWNS						
	0030856	NPDES 7/31/2013 Effective	Bear Creek Cabins 27400 Highway 74 Evergreen, CO 80439	NPDES						
	R109326	NPDES 5/29/2012 Effective	Bear Creek K-8 School 9601 West Dartmouth Place Lakewood, CO	NPDES						
	0130138	NPDES	Bear Creek Water and Sanitation District	CWNS and IUP	030018W	B	WWT	Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$650,694	500
	0030261	NPDES 6/30/2006 Admin. Continued	Brook Forest Inn 8136 South Brook Forest Road Evergreen, CO 80439	NPDES						

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Jefferson	-		Clear Creek county - West Empire	CWNS						
	0046574	NPDES 12/31/2008 Admin. Continued	Clear Creek WWTP 183 Beaver Brook Road Evergreen, CO 80439	NPDES						
	0044890	NPDES 4/30/2010 Effective	Clear Creek Valley Plant 17750 West 32nd Avenue Golden, CO 80401	NPDES						
	G650022	NPDES Gen. 10/19/2012 Effective	Columbia Sanitary Services Inc 20554 Skymeadow Lane Golden, CO 80401	NPDES						
	0044644	NPDES 6/30/2001 Admin. Continued	Conifer High School Wastewater Reclamation Plant 10441 County Highway 73 Conifer, CO 80433	NPDES						
	0047988	NPDES		NPDES						
	-		Conifer Metropolitan District	CWNS and IUP	080042W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$1,250,000	420
	G650120	NPDES Gen. 8/16/2007 Expired	Conifer Sanitation Association Highway 73 And Highway 285 Conifer, CO 80433	NPDES						
	0001163	NPDES 11/30/2007 Expired	Coors Brewing Company 12th And Ford Streets Golden, CO 80401	NPDES						
	R104096	NPDES	Coors Distribution Center State Highway 58 and McIntyre Street Golden, CO 80401	NPDES						
	R104029	NPDES 10/20/2009 Effective	Coors Golden Distribution Center 4430 McIntyre Street Golden, CO 80401	NPDES						
	G650134	NPDES Gen. 10/19/2012 Effective	Eco Resources, Inc., 6050 West 54th Avenue Arvada, CO 80002	NPDES						



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Jefferson	-		Edgewater, City of	CWNS and IUP	030085W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$2,500,000	5,407	
					070021W	B	Stw	Stormwater Project	\$100,000	5,445	
	G650068	NPDES Gen. 10/19/2012 Effective	Evergreen Metropolitan District WWTF 27897 Meadow Drive Evergreen, CO 80439	NPDES							
	0031429	NPDES 11/30/2007 Expired		NPDES and IUP	090019W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; New or Improvements to Biosolids Handling Facility	\$7,300,000	7,165	
	0037044	NPDES 8/31/2012 Effective	Forest Hills Metropolitan District 22933 Forest Hills Drive Golden, CO 80401	NPDES and IUP	090112W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$600,000	399	
	0034860	NPDES 9/30/2012 Effective	General Services Administration P.O. Box 25546, Box 41, Room 240 Lakewood, CO 80225	NPDES							
	0022951	NPDES 5/31/2013 Effective	Genesee Water and Sanitation District 2310 Bitterroot Lane Golden, CO 80401	CWNS, NPDES, and IUP	030112W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction	\$650,000	4,010	
					100010W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Green Infrastructure, Water Efficiency, Energy Efficiency	\$110,000	4,010	
	0042170	NPDES 11/30/2009 Effective	Golden, City Of (Pretreatment) Coors North Service Road And Vasquez Street Jefferson County, CO 80419	NPDES							
	R107187	NPDES	JC 73 Barkley Road to Shadow Mountain Drive Jefferson County, CO	NPDES							

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Jefferson	0023841	NPDES 11/30/2007 Expired	Kittredge Sanitation and Water District 25519 Highway 74 Kittredge, CO 80457	NPDES						
	G650071	NPDES Gen. 10/19/2012 Effective		NPDES						
	S000002	NPDES	Lakewood, City of - Municipal, Stormwater Discharge Lakewood, CO 80228	NPDES						
	0041432	NPDES 7/31/2006 Admin. Continued	Morrison, Town of 16101 Morrison Road Morrison, CO 80465	CWNS, NPDES, and IUP	030191W	B and C	WWT	New Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$4,200,000	1,000
	0022730	NPDES 5/31/2010 Effective	Mountain Water and Sanitation District 12365 Highway 285 Conifer, CO 80433	CWNS, NPDES, and IUP	040033W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$750,000	900
	G650117	NPDES Gen. 10/19/2012 Effective								
	G650127	NPDES Gen.	Northwest Lakewood Sanitation Lakewood, CO	NPDES						
	G641000	NPDES Gen.	Ralston Valley Water and Sanitation District	CWNS and IUP	100092W	B and C	WWT	Collection / Interceptor-Construction / Rehabilitation	\$800,000	1,440
	G650080	NPDES Gen. 10/19/2012 Effective	Sacred Heart of Mary Church 6050 West 54th Avenue Arvada, CO 80002	NPDES						
	0001244	NPDES 3/31/2010 Effective	Schwartzwalder Mine 8300 Glencoe Valley Road Golden, CO 80402	NPDES						
	G650136	NPDES Gen. 10/19/2012 Effective	Shwayder Camp Of Congregation 6050 West 64th Avenue Arvada, CO, 80002	NPDES						

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Jefferson	0035971	NPDES 10/31/2011 Effective	Singin' River Ranch WWTP 1000 Singin River Ranch Road Evergreen, CO 80439	NPDES						
	R104176	NPDES 2/25/2013 Effective	Tepees 1014 El Rancho Road Evergreen, CO	NPDES						
	0036129	NPDES 1/31/2013 Effective	Tiny Town Foundation 6249 South Turkey Creek Road Morrison, CO 80465	NPDES						
	G650078	NPDES Gen. 8/16/2007 Expired		NPDES						
	R105977	NPDES 5/17/2010 Effective	Van Bibber Creek Flood Control Garrison Street And 58th Avenue Arvada, CO 80002	NPDES						
	R108675	NPDES 8/24/2010 Effective	Wah Keeney Park - 2nd Filing 2960 Evergreen Parkway Evergreen, CO, 80439	NPDES						
	R105996	NPDES 9/28/2011 Effective	Water Tower Village, LLP Allison Sreet And Reno Drive Arvada, CO 80002	NPDES						
	G650069	NPDES Gen. 10/19/2012 Effective	West Jefferson County Metropolitan District 24847 Lewis Ridge Road Evergreen, CO 80437	NPDES						
	0020915	NPDES 11/30/2007 Expired		NPDES and IUP	090122W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$650,000	7,658
	-		Wheat Ridge, City of	CWNS and IUP	060012W	B	Stw	Stormwater Project	\$700,000	32,000
<b>Total for Jefferson County</b>									<b>\$24,510,694</b>	
Larimer	G650076	NPDES Gen. 10/19/2012 Effective	Aspen Lodge At Estes Park Corporation 6120 Highway 7 Estes Park, CO 80517	NPDES						
	0042820	NPDES 1/31/2013 Effective		NPDES						
	0030112	NPDES 8/31/2010 Effective	Glacier View Meadows WSA	CWNS						

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Larimer	0046787	NPDES 1/31/2011 Effective	Wind River Ranch 5770 South St. Vrain Road Estes Park, CO	NPDES						
<b>Total for Larimer County</b>									<b>\$0</b>	
Las Animas	G900007	NPDES Gen. 12/31/2006 Admin. Continued	Apache Canyon Coalbed Methane Facility 16920 Highway 12 Weston, CO 81091	NPDES						
<b>Total for Las Animas County</b>									<b>\$0</b>	
Park	0035769	NPDES 4/30/2010 Effective	Alma, Town Of East Of Town On State Highway 9 Alma, CO 80420	CWNS, NPDES, and IUP	030006W	B	NPS	Nonpoint Source Project	\$1,300,000	235
					050002W	B	WWT	New Wastewater Treatment Plant	\$2,500,000	235
	-		Alma Urban NPS	CWNS						
	0040088	NPDES 3/31/2010 Effective	Fairplay Sanitation District 1195 Castello Street Fairplay, CO 80440	CWNS, NPDES, and IUP	050018W	B	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Improvement / New Biosolids Handling Facility	\$4,700,000	700
	-		Fitzsimmons & Platte Canyon	CWNS						
	0045209	NPDES 1/31/2011 Effective	London Mine Extension Tunnel Approximately 12miles Northwest of Town And Park County Road 696 Fairplay, CO 80440	NPDES						
	0038334	NPDES 1/31/2011 Effective	London Water Tunnel 12 Northwest of Town on Mosquito Creek Fairplay, CO 80440	NPDES						
	-		Park County	CWNS						

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Park	-		Park County School District RE2	CWNS and IUP	050042W	B	WWT	Park County School District RE2 - Collection System and/or Interceptor Construction or Rehabilitation	\$30,000	6,000
	-				050043W	B	NPS	Park County School District RE2 - Nonpoint Source Project	\$50,000	6,000
	0041521	NPDES 8/31/2009 Effective	Will-O-Wisp Metropolitan District 956 Wisp Creek Drive Bailey, CO 80421	CWNS, NPDES, and IUP	050060W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$51,100	287
	G650079	NPDES Gen. 10/19/2012 Effective			NPDES					
<b>Total for Park County</b>									<b>\$8,631,100</b>	
Summit	G650163	NPDES Gen.	Arapahoe Basin Ski Area Silverthorne, CO	NPDES						
<b>Total for Summit County</b>									<b>\$0</b>	
Teller	0041416	NPDES 6/30/2010 Effective	Florissant Water and Sanitation District 2244 Highway 24 Florissant, CO 80816	CWNS, NPDES, and IUP	030096W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$500,000	43
	R10A560	NPDES	Tamarac Tech Park State Highway 67 And Tamarac Parkway Woodland Park, CO	NPDES						
	0044211	NPDES 3/31/2012 Effective	Teller County Wastewater Board 12047 West Highway 24, Divide, CO 80814	NPDES	100009W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$600,000	1,800
	G650062	NPDES Gen. 10/19/2012 Effective	Woodland Park WWTP North Highway 67 Woodland Park, CO 80813	NPDES						



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Teller	0043214	NPDES 5/31/2007 Admin. Continued	Woodland Park, City of 27601 North Highway 67 Woodland Park, CO 80863	NPDES						
<b>Total for Teller County</b>									<b>\$1,100,000</b>	
Weld	R109381	NPDES	Defalco Construction Company Raspberry Hill Business Park Frederick, CO	NPDES						
	0045926	NPDES 1/31/2008 Admin. Continued	Erie Sewage Treatment Plant	CWNS and IUP	030088W	B	WWT	New Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation; Reuse Facility; Green Infrastructure, Water Efficiency, Energy Efficiency	\$46,000,000	17,000
								100104W		
	0001121	NPDES 7/31/2013 Effective	Fort St. Vrain Station 16805 Weld County Road 19 ½ Platteville, CO 80651	NPDES						
	R10A247	NPDES 3/3/2013 Effective	Irwin Building 3764 Eureka Way Frederick, CO	NPDES						
	0046868	NPDES 11/30/2009 Effective	Lake Thomas Subdivision WWTF 5425 Weld County Road 32 Longmont, CO 80501	NPDES						
	0046876	NPDES 2/28/2014 Effective	Mead, Town of 4504 East Welker Avenue Mead, CO 80542	NPDES						
G650168	NPDES Gen. 10/19/2012 Effective									

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Weld	G650051	NPDES Gen. 10/19/2012 Effective	St. Vrain Sanitation District 6501 Weld County Road #26 Longmont, CO 80501	NPDES and IUP	090064W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility	\$31,000,000	25,000
	0041700	NPDES 6/30/2010 Effective			090012W	B and C	WWT	New Regional Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	\$45,000,000	24,500
	0046477 (G600463)	NPDES 1/31/2009 Admin. Continued	Wattenberg Water Treatment Plant 1615 Caroline Street Wattenberg, CO 80621	NPDES and IUP	030279W	B	WWT	Wattenburg Improve Assoc - New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$680,000	500
	0021580	NPDES 1/31/2011 Effective	Weld County Tri-Area Sanitation District 8500 Weld County Road 13 Frederick, CO 80530	CWNS and NPDES						
	G650146	NPDES Gen. 8/16/2007 Expired		NPDES						
<b>Total for Weld County</b>									<b>\$124,680,000</b>	

<b>Total Estimated Cost All Projects</b>	<b>\$895,426,296</b>
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<sup>1</sup> Note that this table identifies only NPDES facilities as contained in the publicly available data sources evaluated. Therefore, it should not be considered an all-inclusive list.

<sup>2</sup> Admin. Cont. = Administratively Continued (permit status). For a review of the various NPDES permit types issued by Colorado, consult chapter 3 of the SWQMP.

<sup>3</sup> USEPA 2010a,2010d; WQCD 2010a.

<sup>4</sup> IUP = Intended Use Plan (WQCD 2010b).

<sup>5</sup> The 2010 IUP contains several appendices containing listings of projects. Appendix B is a list of the current construction needs for all identified eligible water quality projects (i.e., project eligibility list) including point source treatment, nonpoint source, stormwater, and source water assessment projects. Appendix C lists projects that are likely to be funded with Water Pollution Control Revolving Funds loans in 2010. For those projects included in appendix A, the loan value is sometimes lower than the estimated cost. Only the estimated cost as shown in appendix B is shown in this table.

<sup>6</sup> Project type categories include the following: WWT = advanced or secondary wastewater treatment, including infiltration and inflow correction, NPS = nonpoint source control project, StW = stormwater project, and SWP = source water protection project.

<sup>7</sup> WWTF = wastewater treatment facility; this term means the same thing as WWTP below; the source document uses the terms interchangeably.

<sup>8</sup> WWTP = wastewater treatment plant; this term means the same thing as WWTF above; the source document uses the terms interchangeably.

<sup>9</sup> ISDS = individual sewage disposal systems.

<sup>10</sup> LID = low impact development.

Exhibit 11-82. Middle South Platte River Sub-Basin Point Source Projects and Scheduled Improvements<sup>1</sup>

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Adams	R230214	NPDES 2/16/2011 Effective	American Precision 11060 Irma Drive Northglenn, CO 80233	NPDES						
	R109342	NPDES 7/16/2013 Effective	Aspen Meadows 1701 West 84 Avenue Federal Heights, CO	NPDES						
	G582018	NPDES Gen. 7/31/2004 Admin. Continued	Bennett, Town of 47300 County Road No. 38 Bennett, CO, 80102	CWNS, NPDES, and IUP	090044W	B and C	WWT	Union Pacific Railroad Sewer Project - Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Reuse Facility	\$400,000	1,900
	G650114	NPDES Gen. 10/19/2012 Effective								
	R108749	NPDES 12/26/2011 Effective	Eagle Shadow 160th and Quebec Street Brighton, CO 80602	NPDES						
	0047741	Effective 2/28/2014 Effective	Front Range Airport WWTF <sup>7</sup> 5200 Front Range Parkway Watkins, CO 80137	NPDES						
	G582025	NPDES Gen. 7/31/2004 Admin. Continued	Hi-Land Acres Water and Sanitation District	CWNS and IUP	030135W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$41,000	352
	589000				100039W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$1,350,000	400
	R105563	NPDES 10/4/2009 Effective	Hyland Park Heights Stacy Drive And West 85th Avenue Federal Heights, CO 80127	NPDES						
	R104760	NPDES 6/29/2011 Effective	Reunion 104th Avenue And Buckley Road Commerce City, CO 80022	NPDES						

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Adams	0047341	NPDES 4/30/2012 Effective	Todd Creek Farms Metropolitan District No.1 Adams County, CO	NPDES						
<b>Total for Adams County</b>									<b>\$1,791,000</b>	
Boulder	-		Fairways Metropolitan District	CWNS and IUP	080044W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$504,000	850
	-		Lyons, Town of	CWNS						
	0047724	NPDES Pending	Willow And Mirror Lakes 109 Will Drive Lyons, CO 80540	NPDES						
<b>Total for Boulder County</b>									<b>\$504,000</b>	
Elbert	G380000 (G582033)	NPDES Gen. 12/31/2008 Admin. Continued	Elizabeth, Town of 303 Washington Street Elizabeth, CO 80107	CWNS, NPDES, and IUP	050017W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$5,125,000	1,500
	G650148	NPDES Gen. 10/19/2012 Effective								
	G650169	NPDES Gen.	Kiowa, Town of Kiowa, CO	NPDES						
	R105895	NPDES	State Highway 86 Improvement State Highway 86 From Mile Marker 18.0 To Mile Marker 20.2 Elbert County, CO	NPDES						
	R107238	NPDES 6/2/2013 Effective	Spring Valley Ranch Phase I 42350 County Road 17-21 Elizabeth, CO 80107	NPDES						
	R109612	NPDES	Spring Valley Ranch Project South Augusta And East Kingsmill Drive Elbert County, CO	NPDES						

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Elbert	0046965	NPDES	Spring Valley Ranch WWTF 5005 Augusta Avenue Elizabeth, CO 80107	NPDES						
<b>Total for Elbert County</b>									<b>\$5,125,000</b>	
Larimer	0046922	NPDES Pending	Ben Delatour Boy Scout Ranch 2331 West County Road 68c Red Feather Lakes, CO 80545	NPDES						
	0046663 (210083)	NPDES 8/31/2009 Effective	Berthoud, Town of 328 Massachusetts Avenue, Berthoud, CO 80513	CWNS, NPDES, and IUP	030023W	B	WWT	New Regional Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Facilities; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$5,000,000	5,043
	G650107	NPDES Gen. 10/19/2012 Effective								
	R090071									
	G650002	NPDES Gen. 10/19/2012 Effective	Berthoud Stormwater	CWNS and IUP	040004W	B	Stw	Stormwater Project	\$1,000,000	5,043
	0020478 (0020476)	NPDES 8/31/2013 Effective	Boxelder Sanitation District 2705 Southwest Frontage Road Fort Collins, CO 80524	CWNS, NPDES, and IUP	030031W	B and C	WWT	New Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$20,600,000	4,794



County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Larimer	0047627	NPDES 10/31/2013 Effective	Drake WWTP <sup>8</sup> 3036 Environmental Drive Fort Collins, CO 80525	NPDES						
	0020290	NPDES 7/31/2006 Admin. Continued	Estes Park Sanitation District 610 Big Thompson Avenue Estes Park, CO 80517	CWNS, NPDES, and IUP	030090W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$1,250,000	3,420
	G650006	NPDES Gen. 10/19/2012 Effective								
	0026425	NPDES 10/31/2013 Effective	Fort Collins Drake Wastewater Reclamation Facility	CWNS						
	0135315	NPDES	Glacier View Meadows Water and Sanitation Association	CWNS and IUP	070004W	B and C	WWT	New Wastewater Treatment Plant	\$500,000	400
					100012W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$350,000	500
	-		Hidden View Estates	CWNS and IUP	070016W	B and C	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$600,000	78
	G650156	NPDES Gen. 10/19/2012 Effective	Johnson's Corner 2842 Southeast Frontage Road Loveland, CO 80537	NPDES						
	-		Larimer County - Carter Lake	CWNS and IUP	040029W	B and C	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS <sup>9</sup>	\$1,300,000	100
-		Larimer County - NPS	CWNS							

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Larimer	0026701	NPDES 7/31/2007 Expired	Loveland, City of 920 South Boise Loveland, CO 80537	NPDES						
			Loveland, City of 1124 Old Airport Rd. Loveland, CO 80538	IUP	030173W	B	WWT	Improvement / Expansion of WWTP; New or Improvements to Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$21,520,000	63,000
	G650087	NPDES Gen. 10/19/2012 Effective	Loveland, City of 1124 Old Airport Rd. Loveland, CO 80538	Envirofacts and IUP	090097W	B	WWT	Improvement / Expansion of WWTP; Green Infrastructure, Water Efficiency, Energy Efficiency	\$17,500,000	63,000
					090134W	B	NPS	Nonpoint Source Project	\$100,000	63,000
	0047317	NPDES 3/31/2012 Effective	Magic Sky Ranch G.S. Camp Southeast 1/4, Northwest 1/4, Sec4,T9s,R72w Larimer County, CO	NPDES						
	0026425	NPDES 10/31/2013 Effective	Mulberry WWTP 520 Riverside Ave and 3036 East Drake Fort Collins, CO 80522	NPDES						
	0039977	NPDES 5/31/2013 Effective	Nutri-Turf, Inc. 44308 Weld County Road 15 Fort Collins, CO 80524	NPDES						
	0029742	NPDES 5/31/2010 Effective	Riverglen Homeowners Association 2 Miles South of Town on County Road 17 Berthoud, CO 80513	NPDES and IUP	100006W	B	WWT	Consolidation of Wastewater Treatment Facilities; Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation;	\$910,500	202
	R106582	NPDES 5/18/2011 Effective	Roadway Express I-25 And US Highway 34 Loveland, CO	NPDES						
0047325	NPDES 3/31/2012 Effective	Sky Ranch Lutheran Camp Northwest 1/4, Northeast 1/4, S17, T17nr73w Larimer County, CO	NPDES							

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Larimer	0020737	NPDES 1/31/2011 Effective	South Fort Collins Sanitation District 2560 East County Road 32 Fort Collins, CO 80528	NPDES						
	G650067	NPDES Gen. 10/19/1012 Effective								
	R106736	NPDES 3/30/2011 Effective	The Shops At Centerra 2400 Frontage Road Loveland, CO 80538	NPDES						
	-		Thompson Crossing No.1 Metropolitan District	CWNS						
	R10A954	NPDES 7/28/2013 Effective	Timnath Ranch Subdivision 3 FLG County Road 3 and County Road 36 Timnath, CO	NPDES						
	-		Town of Timnath	CWNS and IUP	030273W	B and C	WWT	New Wastewater Treatment Plant; Connect to Existing Facility; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$85,500,000	400
	G650004	NPDES Gen. 10/19/2012 Effective	Upper Thompson Sanitation District 2201 Mall Road Estes Park, CO 80517	NPDES and IUP						
	0031844	NPDES 7/31/2007 Admin. Continued			090096W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$2,700,000	10,800
	R103931		US 287 Berhtoud Bypass SEG #2, NH 2873-114 13393 US 287 Larimer County, CO	NPDES						
	G650179	NPDES Gen. 10/19/12012 Effective	Wellington WWTP 6190 Northeast Frontage Road Wellington, CO 80549	NPDES and IUP						
0046451	NPDES 8/31/2008 Admin. Continued	090062W			B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$9,461,907	6,450	
<b>Total for Larimer County</b>									<b>\$168,292,407</b>	

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Weld	R108330	NPDES	34 Transportation Center Southeast Corner of Highway 34 and Weld County Road 47 Kersey, CO 80644	NPDES						
	R109688	NPDES 8/17/2011 Effective	Appel Farms 13756 State Highway 52 Ft. Lupton, CO 80621	NPDES						
	0043711	NPDES 3/31/1999 Admin. Continued	Ault Lagoon	CWNS						
	U000135	NPDES Pending	Bella Holsteins, Inc. 13278 Road 32 Platteville, CO 80651	NPDES						
	0047708	NPDES Pending	Box Elder Creek Ranch Water 16373 Rayburn Street Hudson, CO 80642	NPDES						
	-		Brownsville Water and Sanitation District	CWNS						
	R10A818	NPDES 3/3/2013 Effective	Eaton Early Learning Center 25 South Cottonwood Avenue Eaton, CO	NPDES						
	COG650135	NPDES Gen. 10/19/2012 Effective	Eaton, Town of 800 East Collins Street Eaton, CO 80615	NPDES						
	0047414	NPDES 6/30/2012 Effective								
	R090058	NPDES	Evans Stormwater	CWNS and IUP	040018W	B	Stw	Stormwater Project	\$1,000,000	21,000
0020508	NPDES 9/30/2013 Effective	Evans, City of 3323 1st Avenue Evans, CO 80620	CWNS, NPDES, and IUP	040053W	B	NPS	Nonpoint Source Project	\$2,500,000	21,000	

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Weld	0021440	NPDES 5/31/2011 Effective	Fort Lupton, City of 12285 Highway 52 Fort Lupton, CO 80621	CWNS, NPDES, and IUP	030101W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$5,365,000	7,100
					100035W	B	Stw	Stormwater Project	\$500,000	7,100
	G650138	NPDES Gen. 10/19/2012 Effective	Fort Lupton, City of 130 South Mckinley Fort Lupton, CO 80621	NPDES						
	0043320	NPDES 4/30/2012 Effective	Galeton Water and Sanitation District Weld County Road 51 South of Weld County Road 74 Galeton, CO 80622	CWNS, NPDES, and IUP	090125W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$585,000	148
	0041653	NPDES 2/28/2010 Effective	Town Of Gilcrest 14949 County Road 42 and Highway 85 Gilcrest, CO 80623	CWNS, NPDES, and IUP	030115W	B	WWT	New Wastewater Treatment Plant	\$13,600,000	1,200
	G650130	NPDES Gen.								
	R090033	NPDES	Greeley, City of 300 East 8th Street Greeley, CO 80631	CWNS, NPDES, and IUP	050026W	B and C	Stw	Stormwater Project	\$6,700,000	89,000
	0040258	NPDES 1/31/2011 Effective			100060W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Improvement / New Biosolids Handling Facility	\$6,659,075	94,632
					100061W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$5,240,000	94,632



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Weld	-		Grover, Town of	CWNS and IUP	030127W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$40,000	154
					100062W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$2,300,000	154
	0047287 (0020508)	NPDES 7/31/2013 Effective	Hill-N-Park Sanitation District 3492 49th Street Greeley, CO 80634	NPDES and IUP	030091W	B	WWT	New Wastewater Treatment Plant; New Regional Wastewater Treatment Facility; Improvement / Expansion of Wastewater Treatment Plant; New or Improvements to Biosolids Handling Facility; Reuse Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$22,500,000	21,000
	G589013 (G581014)	NPDES Gen. 10/31/2010 Effective	Hudson Sewage Treatment Plant	CWNS and IUP	030139W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Improvement / New Biosolids Handling Facility	\$2,508,000	1,598
	0021156	NPDES 6/30/2010 Effective	Johnstown, Town of 101 Charlotte Street Johnstown, CO 80534	NPDES						
	G650150	NPDES Gen. 8/16/2007 Expired								
	0041254	NPDES 10/31/2011 Effective	Keenesburg, Town of 350 East Morgan Avenue Keenesburg, CO 80643	CWNS, NPDES, and IUP	040026W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$300,000	1,150
	G650147	NPDES Gen. 8/16/2007 Expired								
	0021954	NPDES 5/31/2012 Effective	Kersey, Town of 26911 Highway 34 Kersey, CO 80644	CWNS and NPDES						

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Weld	0032158	NPDES 12/31/2013 Effective	Kodak Colorado Division 9952 Eastman Park Drive Windsor, CO 80551	NPDES						
	G588058 (G581058)	NPDES Gen. 5/31/2010 Effective	La Salle WWTP	CWNS and IUP	030162W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$400,000	1,900
	G650137	NPDES Gen. 10/19/2012 Effective	Lambland Inc. DBA A1 Organics 16350 Weld County Road 76 Eaton, CO 80615	NPDES						
	G581000 (G581001)	NPDES Gen. 4/30/1999 Expired	Lochbuie, Town of 703 West County Road 39 Lochbuie, CO 80603	CWNS, NPDES, and IUP	030168W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$8,000,000	6,500
					060005W	B	Stw	Stormwater Project	\$300,000	6,500
					060006W	B	NPS	Nonpoint Source Project	\$1,000,000	6,500
	0047198	NPDES 12/31/2010 Effective								
	G650158	NPDES Gen. 10/19/2012 Effective								
	0027707	NPDES 8/31/2010 Effective	Lone Tree Facility 24750 Weld County Road 62 ½ Greeley, CO 80631	NPDES						
	0047058	NPDES 8/31/2010 Effective	Low Point WWTP 3269 High Plains Boulevard Johnstown, CO 80534	NPDES						
-		Lower South Platte Regional WWTP	CWNS							
R10A244	NPDES	Maplewood Commercial Phase II Colorado Parkway and US Highway 85 Eaton, CO	NPDES							

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Weld	G582036	NPDES Gen.	Mead, Town of	CWNS and IUP	050035W	B	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$2,985,000	2,500
	0046485	NPDES 8/31/2012 Effective	Milliken Reverse Osmosis Water Treatment Plant 400 Inez Boulevard Milliken, CO 80543	NPDES						
	0042528	NPDES 1/31/2007 Expired	Milliken Sanitation District 2681 Ash Street Milliken, CO 80543	CWNS, NPDES, and IUP						
	142528	NPDES			030186W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$2,900,000	6,000
					050037W	B	Stw	Stormwater Project	\$200,000	6,000
	-		Nunn, Town of	CWNS and IUP	030199W	B and C	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Eliminate ISDS	\$4,200,000	520
	X041211	NPDES 5/31/2009 Effective	Pierce, Town of	CWNS and IUP	060022W	B	WWT	New Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Plant	\$1,630,000	878
	R090037	NPDES	Platteville, Town of 400 Grand Avenue Platteville, CO 80651	CWNS, NPDES, and IUP	050044W	B	Stw	Stormwater Project	\$200,000	2,500
	0040355	NPDES 1/31/2012 Effective			030219W	B	WWT	New Wastewater Treatment Plant; Improvement / Expansion of Wastewater Treatment Plant	\$5,500,000	2,500
	-		PV Water and Sanitation Metropolitan District	CWNS						
	R106103	NPDES	Raspberry Hill I-25 Frontage Road and Weld County Road 18 Weld County, CO	NPDES						
0046779	NPDES Pending	Renewable Environmental Solutions 19028 Weld County Road 28 Platteville, CO 80651	NPDES							

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Weld	-		Resource Colorado Water and Sanitation	CWNS and IUP	050047W	B	WWT	New Regional Wastewater Treatment Facility; Reuse Facility	\$9,500,000	10,000
	0047007	NPDES 5/31/2010 Effective	Serenity Ridge WWTP N1/2,N1/2,S27,T4N,R68W Weld County, CO	NPDES						
	G589000	NPDES Gen.	Severance Lagoon	CWNS						
	R109282	NPDES 9/20/2011 Effective	South Gate Business Park Highway 34 and Weld County Road 17 Windsor, CO	NPDES						
	G650034	NPDES Gen. 10/19/2012 Effective	Water Pollution Control Facility 300 East 8th Street Greeley, CO 80631	NPDES						
	R090037	NPDES	Weld County Tri-Area Stormwater	CWNS and IUP	040040W	B	Stw	Stormwater Project	\$250,000	7,500
	0047635	Pending	Windsor Ethanol Production Facility 31375 Great Western Drive Windsor, CO 80550	NPDES						
	0020320	NPDES 1/31/2006 Admin. Continued	Windsor, Town of 30502 Highway 257 Windsor, CO 80550	NPDES and IUP	090020W	B and C	Stw	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation	\$6,937,800	15,000
	G650037	NPDES Gen. 10/19/2012 Effective								
<b>Total for Weld County</b>									<b>\$113,799,875</b>	
<b>Total Estimated Cost All Projects</b>									<b>\$289,512,282</b>	

<sup>1</sup> Note that this table identifies only NPDES facilities as contained in the publicly available data sources evaluated. Therefore, it should not be considered an all-inclusive list.

<sup>2</sup> Admin. Cont. = Administratively Continued (permit status). For a review of the various NPDES permit types issued by Colorado, consult chapter 3 of the SWQMP.

<sup>3</sup> USEPA 2010a, 2010d; WQCD 2010b.

<sup>4</sup> IUP = Intended Use Plan (WQCD 2010b).

<sup>5</sup> The 2010 IUP contains several appendices containing listings of projects. Appendix B is a list of the current construction needs for all identified eligible water quality projects (i.e., project eligibility list) including point source treatment, nonpoint source, stormwater, and source water assessment projects. Appendix C lists projects that are likely to be funded with Water Pollution Control Revolving Funds loans in 2010. For those projects included in appendix A, the loan value is sometimes lower than the estimated cost. Only the estimated cost as shown in appendix B is shown in this table.

<sup>6</sup> Project type categories include the following: WWT = advanced or secondary wastewater treatment, including infiltration and inflow correction, NPS = nonpoint source control project, StW = stormwater project, and SWP = source water protection project.

<sup>7</sup> WWTF = wastewater treatment facility; this term means the same thing as WWTP below; the source documents use the terms interchangeably.

<sup>8</sup> WWTP = wastewater treatment plant; this term means the same thing as WWTF above; the source documents use the terms interchangeably.

<sup>9</sup> ISDS = individual sewage disposal systems.



**Exhibit 11-83. Lower South Platte River Sub-Basin Point Source Projects and Scheduled Improvements<sup>1</sup>**

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Adams	G589035	NPDES Gen. 10/31/2010 Effective	Eastern Adams County Metropolitan District 3155 Pigott Mile Road Strasburg, CO 80136	CWNS						
	G650171 (G58250)	NPDES Gen. 10/19/2012 Effective		NPDES and IUP	040046W	B	WWT	New Regional Wastewater Treatment Plant; Consolidation of Wastewater Treatment Facilities; Reuse Facility; Collection System and/or Interceptor Construction or Rehabilitation	\$1,500,000	5,000
<b>Total for Adams County</b>									<b>\$1,500,000</b>	
Arapahoe	G650165	NPDES Gen. 10/19/2012 Effective	Deer Trail, Town of 1 1/2 Miles North of Deer Trail Highway 40 Arapahoe County, CO	NPDES						
	0042064	NPDES 12/31/2011 Effective	Treatment, Storage And Disposal 108555 East Highway 36 Deer Trail, CO 80501	NPDES						
<b>Total for Arapahoe County</b>									<b>\$0</b>	
Elbert	0046841	NPDES Pending	Agate School 41032 Second Avenue Agate, CO 80101	NPDES						
	0047456	NPDES 6/30/2013 Effective		NPDES						
	-		Clearwater Metropolitan District	CWNS and IUP	050010W	B	WWT	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Reuse Facility; Eliminate ISDS <sup>7</sup>	\$3,800,000	1,000
	0033405	NPDES 12/31/2010 Effective	Kiowa, Town of 1/4 Mile North Of Town Kiowa, CO 80117	NPDES and IUP	100017W	B and C	WWT	Collection System and/or Interceptor Construction or Rehabilitation; Sanitary Sewer Overflow Correction	\$490,000	630
	R106854	NPDES	Wild Pointe, Elbert and Highway 86 Elizabeth, CO 80107	NPDES						
<b>Total for Elbert County</b>									<b>\$4,290,000</b>	

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Logan	-		Iliff, Town of	CWNS and IUP	080034W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Green Infrastructure, Water Efficiency, Energy Efficiency	\$725,000	260
	G630034	NPDES Gen.			100088W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Green Infrastructure, Water Efficiency, Energy Efficiency	\$725,000	260
	X044873	NPDES 4/30/2004 Expired	Merino Sewage Treatment Plant	CWNS and IUP	030181W	B	WWT	New Wastewater Treatment Plant	\$500,000	246
	-		Peetz, Town of	CWNS						
	G650105	NPDES Gen.	Sage Pointe Water and Sanitation District	NPDES						
	0026247	NPDES 7/31/2008 Expired	Sterling, City of 15956 County Road 370 Sterling, CO 80751	NPDES and IUP	090010W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$3,650,000	13,500
	0047066	NPDES 11/30/2011 Effective	Sterling Ethanol LLC 450 Angus Avenue Sterling, CO 80751	NPDES						
<b>Total for Logan County</b>									<b>\$5,600,000</b>	
Morgan	0021245	NPDES 7/31/2007 Admin. Continued	Brush, City of 20503 Morgan County Road 28 Brush, CO 80723	CWNS, NPDES, and IUP	050009W	B and C	WWT	New Wastewater Treatment Plant	\$13,600,000	5,500
					090121W	B	Stw	Stormwater Project	\$2,410,000	5,471
	G650065	NPDES Gen.		NPDES						
	0044270	NPDES 7/31/2013 Effective	Fort Morgan Beef Plant 1505 East Burlington Avenue Fort Morgan, CO 80701	NPDES						

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Morgan	0043958	NPDES 6/30/2009 Effective	Fort Morgan Cheese Facility 2400 East Beaver Avenue Fort Morgan, CO 80701	NPDES						
	0044849	NPDES 7/31/2007 Expired	Fort Morgan, City of 18169 Road 22 Fort Morgan, CO 80701	NPDES and IUP	090073W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehabilitation; Green Infrastructure, Water Efficiency, Energy Efficiency	\$2,957,809	12,000
					090132W	B	Stw	Stormwater Project	\$50,000,000	12,000
	0041351	NPDES 1/31/2011 Effective	Fort Morgan Factory 18317 Highway 144 Fort Morgan, CO 80701	NPDES						
	G589030	NPDES Gen. 10/31/2010 Effective	Hillrose WWTP <sup>8</sup>	CWNS						
	G650021	NPDES Gen. 10/19/2012 Effective	Morgan Heights WWTF <sup>9</sup> 21400 Highway 52 Fort Morgan, CO 80701	NPDES						
	G584000	General, EXP 10/31/1999 Expired	Snyder Sanitation District	CWNS and IUP	050053W	B	WWT	Improvement / Expansion of Wastewater Treatment Plant	\$35,900	150
	G650102 (0630020)	NPDES Gen. 10/19/2012 Effective	Wiggins, Town of 304 Central Avenue Wiggins, CO, 80654	CWNS, NPDES, and IUP	080053W	B and C	WWT	Improvement / Expansion of Wastewater Treatment Plant; Improvement / New Biosolids Handling Facility	\$250,000	975
100013W					B	NPS	Nonpoint Source Project	\$250,000	975	
<b>Total for Morgan County</b>									<b>\$69,503,709</b>	
Otero	G650033	NPDES Gen. 10/19/1012 Effective	North La Junta Sanitation District Fruit Avenue La Junta, CO 81050	NPDES						
<b>Total for Otero County</b>									<b>\$0</b>	

County	Permit No.	Permit Type, Expiration Date & Status <sup>2</sup>	Facility or Authority Project Name Address (if available)	Source Info <sup>3</sup>	IUP <sup>4</sup> No.	Applicable IUP Appendices <sup>5</sup>	Project Type <sup>6</sup>	Project Description	Estimated Cost	Population to Benefit from Project
Sedgwick	0021113	NPDES 3/31/2012 Effective	Town Of Julesburg WWTF 15412 Colorado US Highway 385 Julesburg, CO 80737	CWNS, NPDES, and IUP	060004W	B	WWT	New or Improvements to Biosolids Handling Facility; Improvement / Expansion of Wastewater Treatment Plant	\$500,000	1,467
					090114W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$500,000	1,467
	G650025	NPDES Gen. 10/19/2012 Effective	Sedgwick WWTP	NPDES						
	-									
	-		Sedgwick, Town of - NPS	CWNS and IUP	100096W	B	WWT	Collection System and/or Interceptor Construction or Rehabilitation	\$2,500,000	183
<b>Total for Sedgwick County</b>									<b>\$3,500,000</b>	
Washington	0047970	NPDES	Woodlin School District R-104 15400 County Road L Woodrow, CO 80757	NPDES						
<b>Total for Washington County</b>									<b>\$0</b>	
Weld	0034789	NPDES 9/30/2010 Effective	USAF-F.E. Warren Air Force Base U.S. Highway 71, Stoneham, CO, 80754	NPDES						
<b>Total for Weld County</b>									<b>\$0</b>	
<b>Total Estimated Cost All Projects</b>									<b>\$84,393,709</b>	

<sup>1</sup> Note that this table identifies only NPDES facilities as contained in the publicly available data sources evaluated. Therefore, it should not be considered an all-inclusive list.

<sup>2</sup> Admin. Cont. = Administratively Continued (permit status). For a review of the various NPDES permit types issued by Colorado, consult chapter 3 of the SWQMP.

<sup>3</sup> USEPA 2010a, 2010d; WQCD 2010b.

<sup>4</sup> IUP = Intended Use Plan (WQCD 2010b).

<sup>5</sup> The 2010 IUP contains several appendices containing listings of projects. Appendix B is a list of the current construction needs for all identified eligible water quality projects (i.e., project eligibility list) including point source treatment, nonpoint source, stormwater, and source water assessment projects. Appendix C lists projects that are likely to be funded with Water Pollution Control Revolving Funds loans in 2010. For those projects included in appendix A, the loan value is sometimes lower than the estimated cost. Only the estimated cost as shown in appendix B is shown in this table.

<sup>6</sup> Project type categories include the following: WWT = advanced or secondary wastewater treatment, including infiltration and inflow correction, NPS = nonpoint source control project, StW = stormwater project, and SWP = source water protection project.

<sup>7</sup> ISDS = individual sewage disposal systems.

<sup>8</sup> WWTP = wastewater treatment plant; this term means the same thing as WWTF below; the source documents use the terms interchangeably.

<sup>9</sup> WWTF = wastewater treatment facility; this term means the same thing as WWTP above; the source documents use the terms interchangeably.

**Exhibit 11-84. Platte River Basin Summary of CWA Section 319 Nonpoint Source Grant Projects**

Number of Projects	Fiscal Year	GRTS Project Number	Project Title	Functional Categories	Primary NPS Categories	Secondary NPS Categories	Total Budget	CWA Section 319(h) Portion (percent of total budget)	Other Funding
<b>North Platte</b>									
1	2010		North Park Watershed Plan - Owl Mountain Partnership	Watershed Plan			Recommended for Funding		
<b>Upper South Platte</b>									
11	2005	03	Project: Neighborhood Water Stewardship Program	Local (Specific Target) Education/ Information Programs	Urban Runoff/ Stormwater	Residential (e.g. non-commercial automotive/pet waste/etc.)	\$38,000	\$25,000	\$13,000
	2005	10	Project: Lefthand Watershed Streambed Sediment Toxicity	Watershed Assessments	Resource Extraction	Abandoned Mine Drainage	\$83,300	\$50,000	\$33,300
	2005	11	Project: Coyote Gulch Restoration Project	Stream Bank Stabilization	Urban Runoff/ Stormwater	Channel Erosion/Incision	\$558,000	\$200,000	\$358,000
	2005	26	Project: Gilson Gulch Orphan Mine/Orphanage Remediation	BMP Design/Implementation	Resource Extraction	Abandoned Mine Drainage	\$50,000	\$50,000	\$0
	2006	03	Project: West Creek Water Quality Improvement	BMP Design/Implementation	Other NPS Pollution	Erosion From Derelict Land	\$124,595	\$74,757	\$49,838
	2006	04	Project: Gilson Gulch Orphan Mine/Orphanage Remediation	BMP Design/Implementation	Resource Extraction	Abandoned Mine Drainage	\$362,813	\$192,813	\$170,000
	2006	05	Project: Castleton Mine Dump Remediation	BMP Design/Implementation	Resource Extraction	---	\$134,521	\$80,713	\$43,808
	2007	10	Project: Upper Trail Creek Orphanage Remediation	Stream Bank Stabilization	Hydromodification	---	\$484,077	\$290,400	\$193,677
	2008	01	Project: Lefthand OHV Area Restoration II	Stream Bank Stabilization	Other NPS Pollution	---	\$250,000	\$150,000	\$100,000
	2010			2010 Upper South Platte Nonpoint Source Initiative - Coalition for the Upper South Platte (CUSP)	Stream Restoration			Recommended for Funding	



Number of Projects	Fiscal Year	GRTS Project Number	Project Title	Functional Categories	Primary NPS Categories	Secondary NPS Categories	Total Budget	CWA Section 319(h) Portion (percent of total budget)	Other Funding
	2010		Watershed Plan for the St. Vrain Creek Watershed - St. Vrain Left Hand Water Conservancy District	Watershed Plan			Recommended for Funding		
<b>Middle South Platte</b>									
3	2005	17	Project: BMW Watershed Plan - Phase II	Hydromodification	Municipal	Watershed Planning/ TMDLs	\$1,588,504	\$301,900	\$1,286,604
	2006	19	Project: Lower South Platte Watershed Plan (Cherry Creek)	Watershed Planning	All Sources	---	\$255,300	\$50,000	\$205,300
	2010		City of Fort Collins LID Monitoring Project (Union Place) - City of Fort Collins	Urban/Stormwater			Conditional Recommendation Pending Available Funding		
<b>Lower South Platte</b>									
2	2005	29	Project: Lower South Platte Watershed Plan	N/A	---	---	\$50,000	\$50,000	\$0
	2010		Lower South Platte Watershed Plan - Phase 2 - Colorado Department of Agriculture - Colorado State	Watershed Plan			Recommended for Funding		
<b>Basin Totals</b>									
17	2005-2010	--	--	--	--	--	\$3,979,110	\$1,515,583	\$2,453,527

Sources: USEPA 2010c; WQCD 2010a.