Appendix A

Watershed Maps

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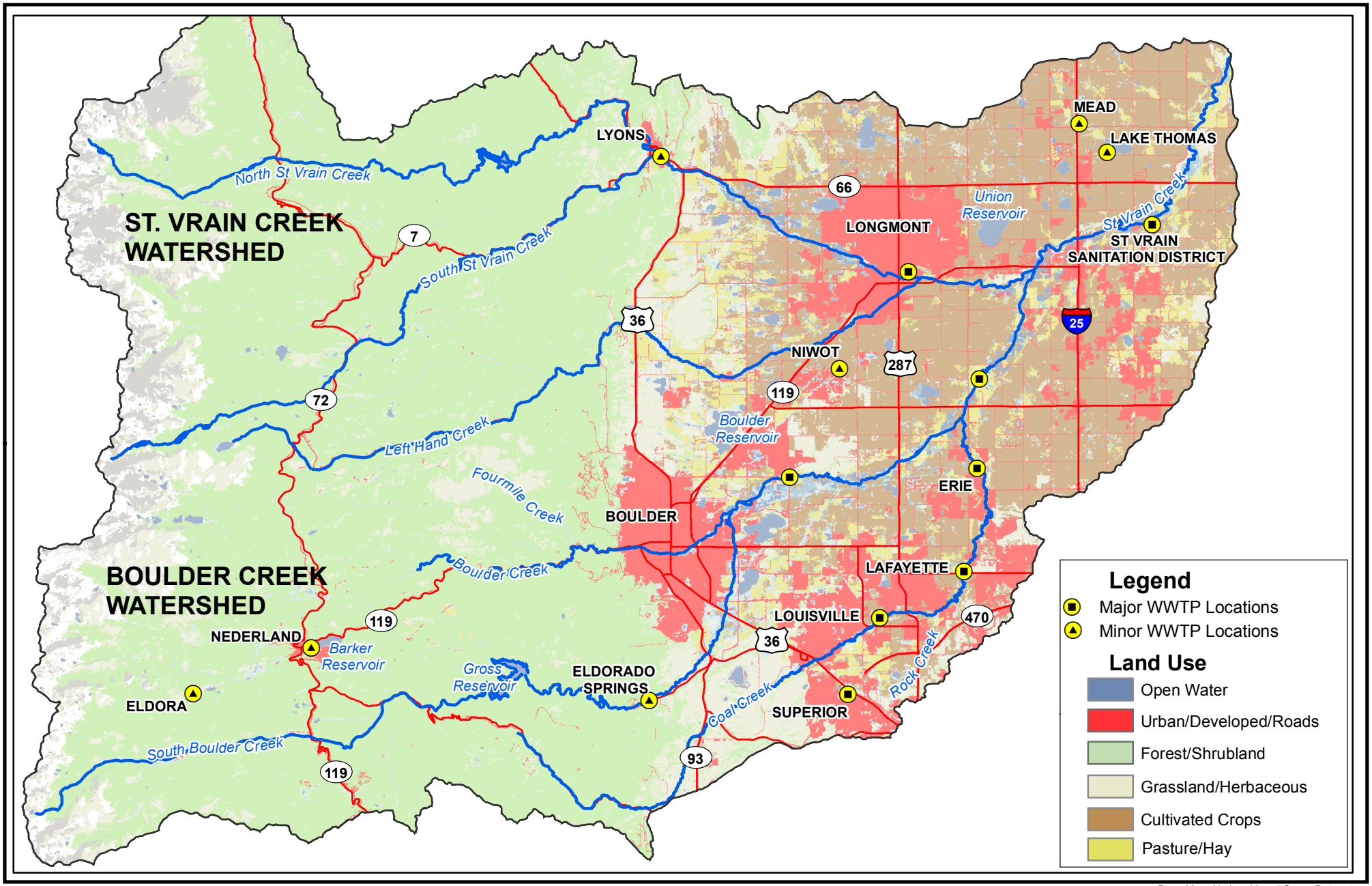

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Base Map: National Land Cover Dataset

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(303) 480-1700

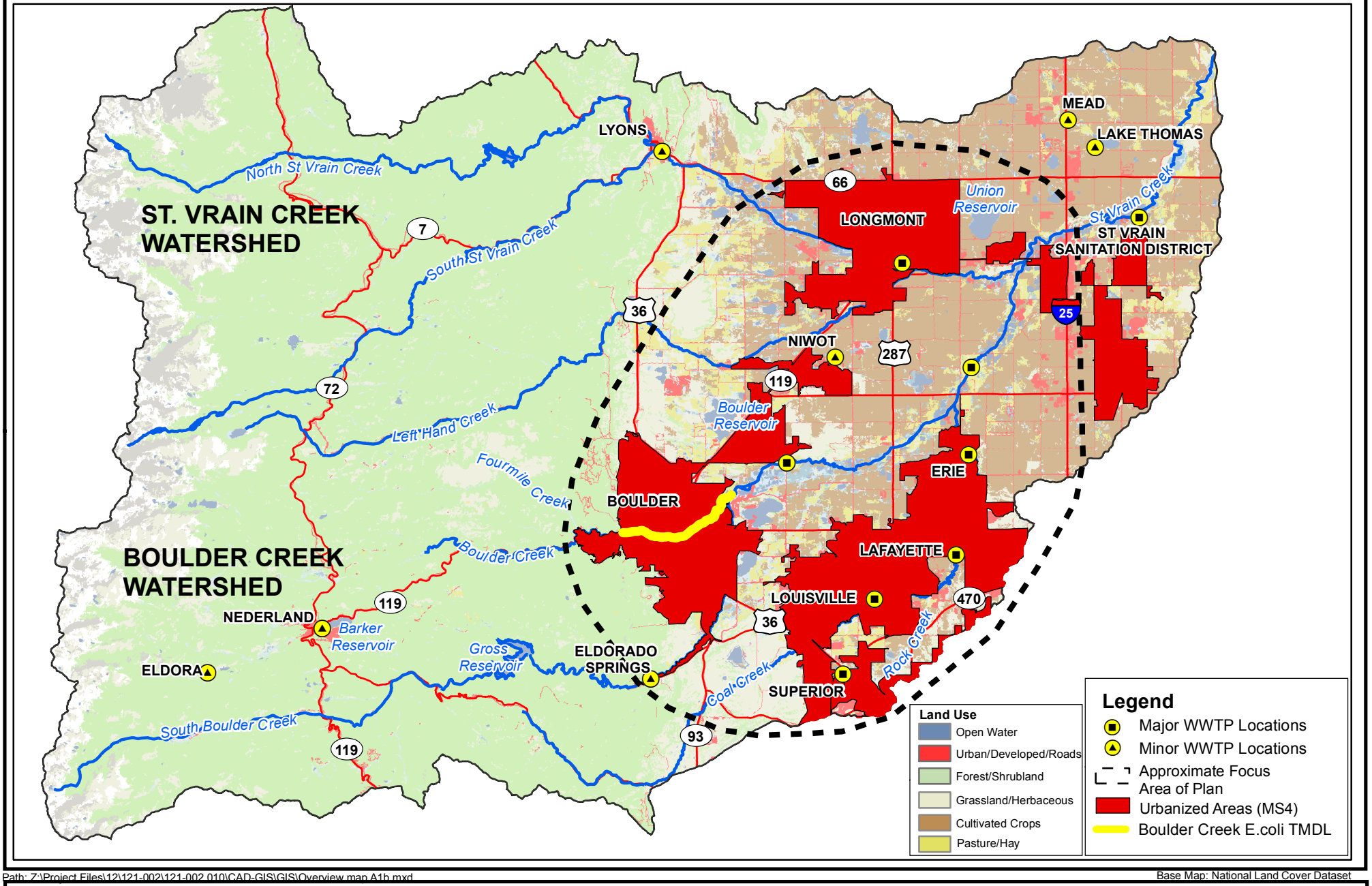
ST. VRAIN BASIN OVERVIEW MAP

N W E S

0 1.5 3 6
Miles

PROJECT NO. 121-002.010

FIGURE A-1a



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Base Map: National Land Cover Dataset

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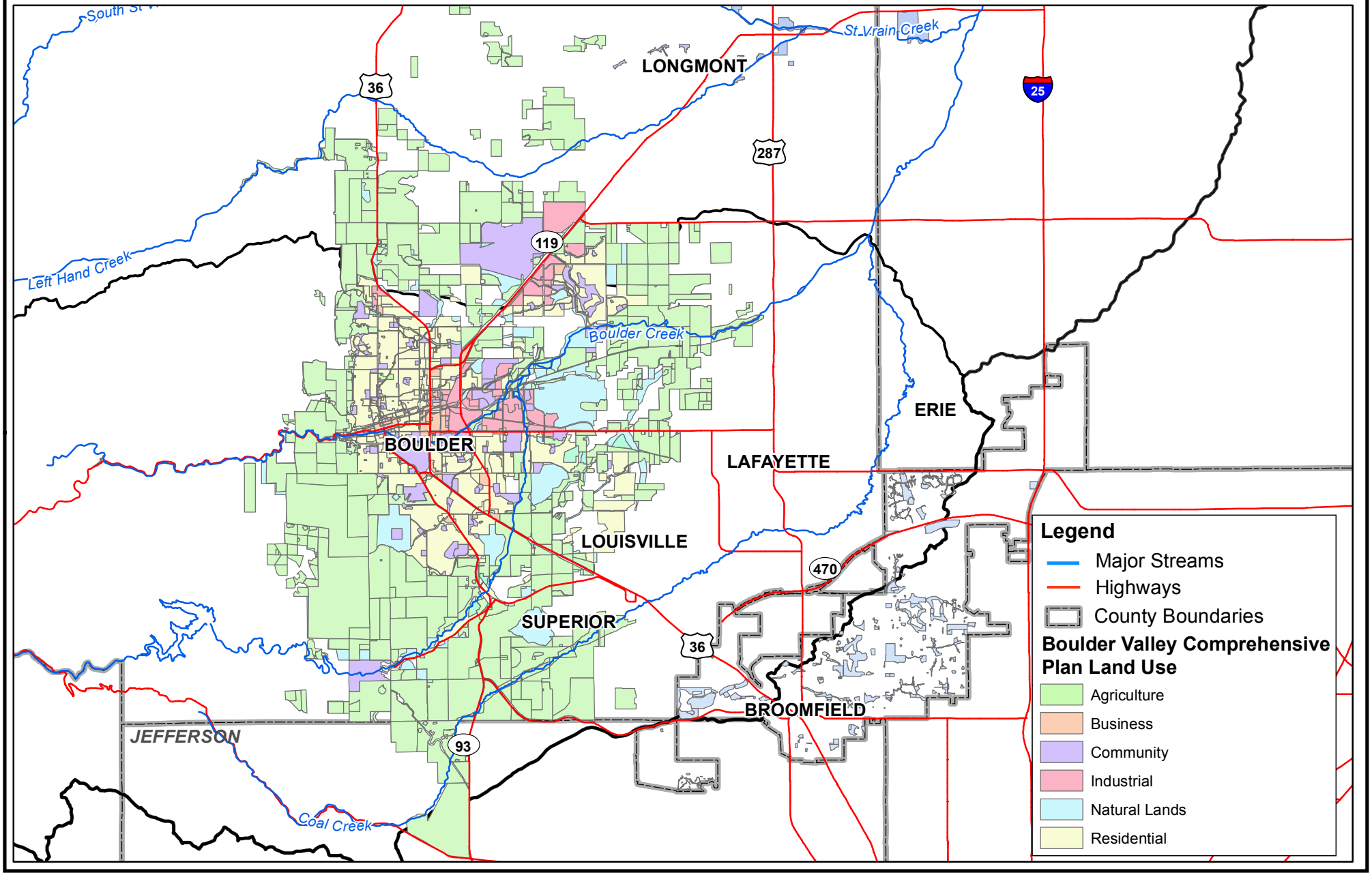
BOULDER CREEK-ST. VRAIN WATERSHED WITH REGULATORY BOUNDARIES AND AREA OF FOCUS

N
W E
S

0 1.5 3 6
Miles

PROJECT NO.
121-002.010

FIGURE
A-1b



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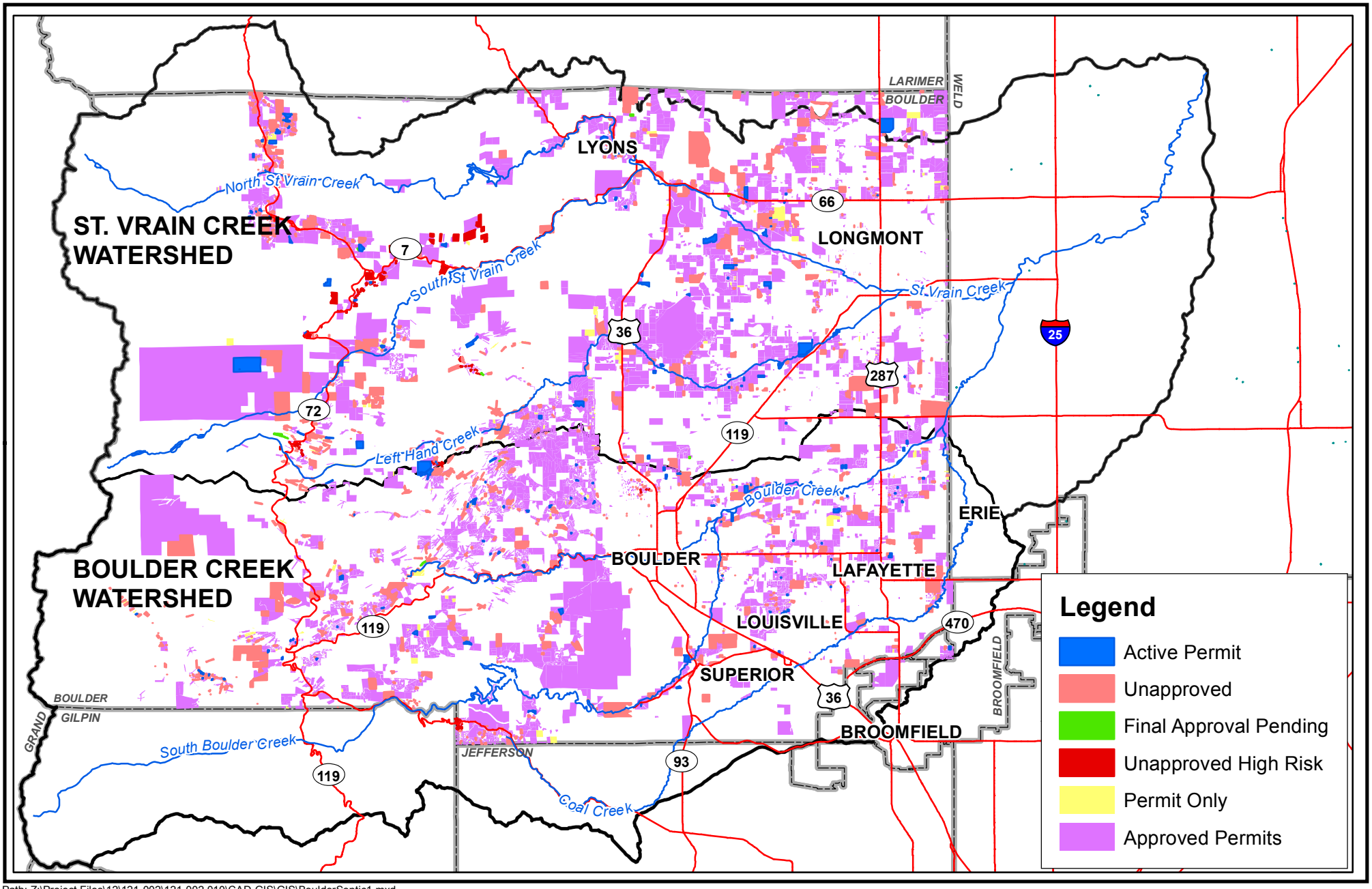
BOULDER VALLEY COMPREHENSIVE PLAN LAND USE

N W E S

0 1.5 3 Miles

PROJECT NO. 121-002.010

FIGURE A-2



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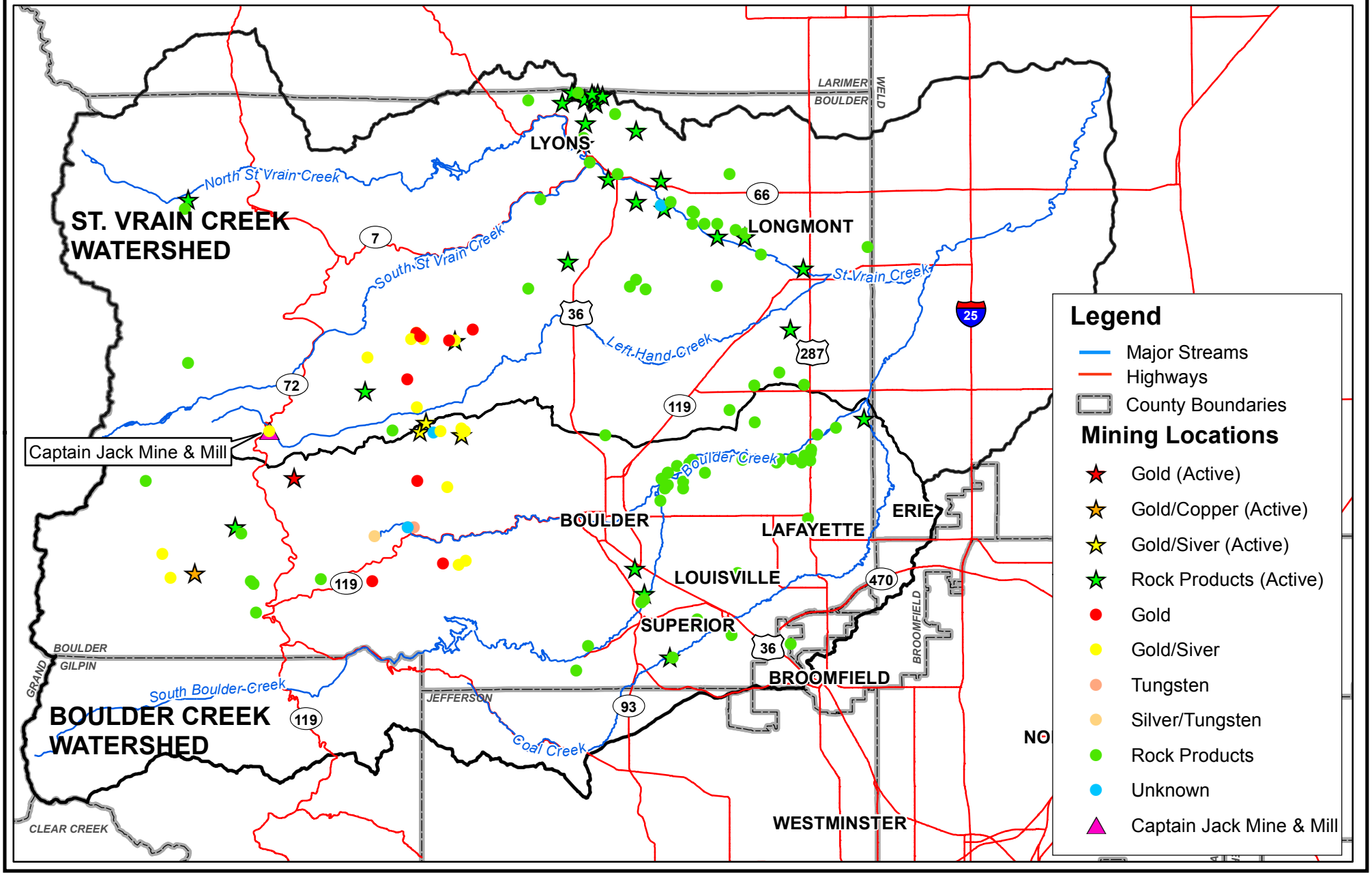
BOULDER COUNTY SEPTIC SYSTEMS
(from Septic Smart Database)

N W E S

0 2.5 5 Miles

PROJECT NO. 121-002.010

FIGURE A-3



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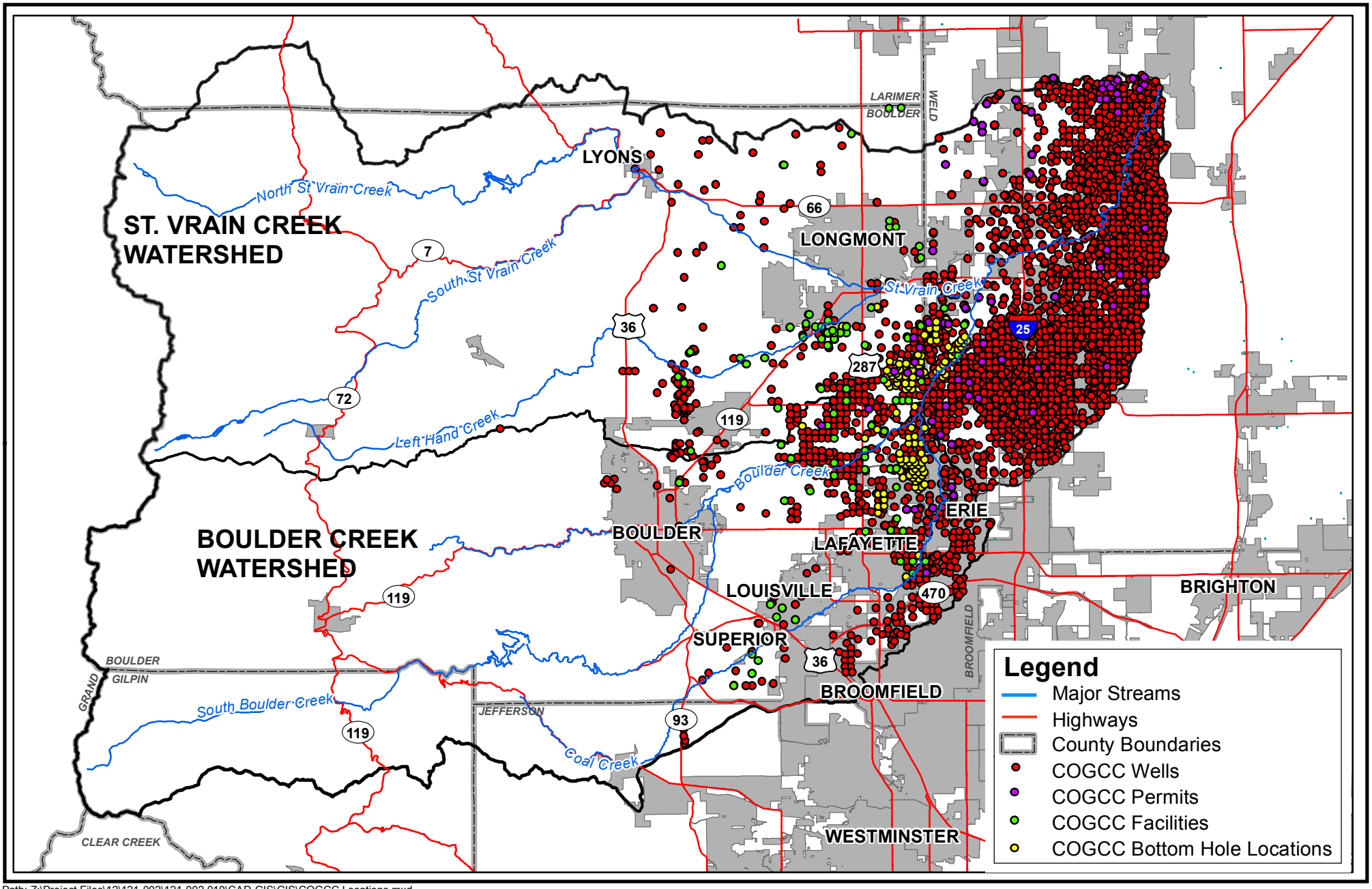
BOULDER COUNTY PERMITTED MINING LOCATIONS (1974-PRESENT)

N W E S

0 2.5 5 Miles

PROJECT NO. 121-002.010

FIGURE A-4



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ST. VRAIN BASIN

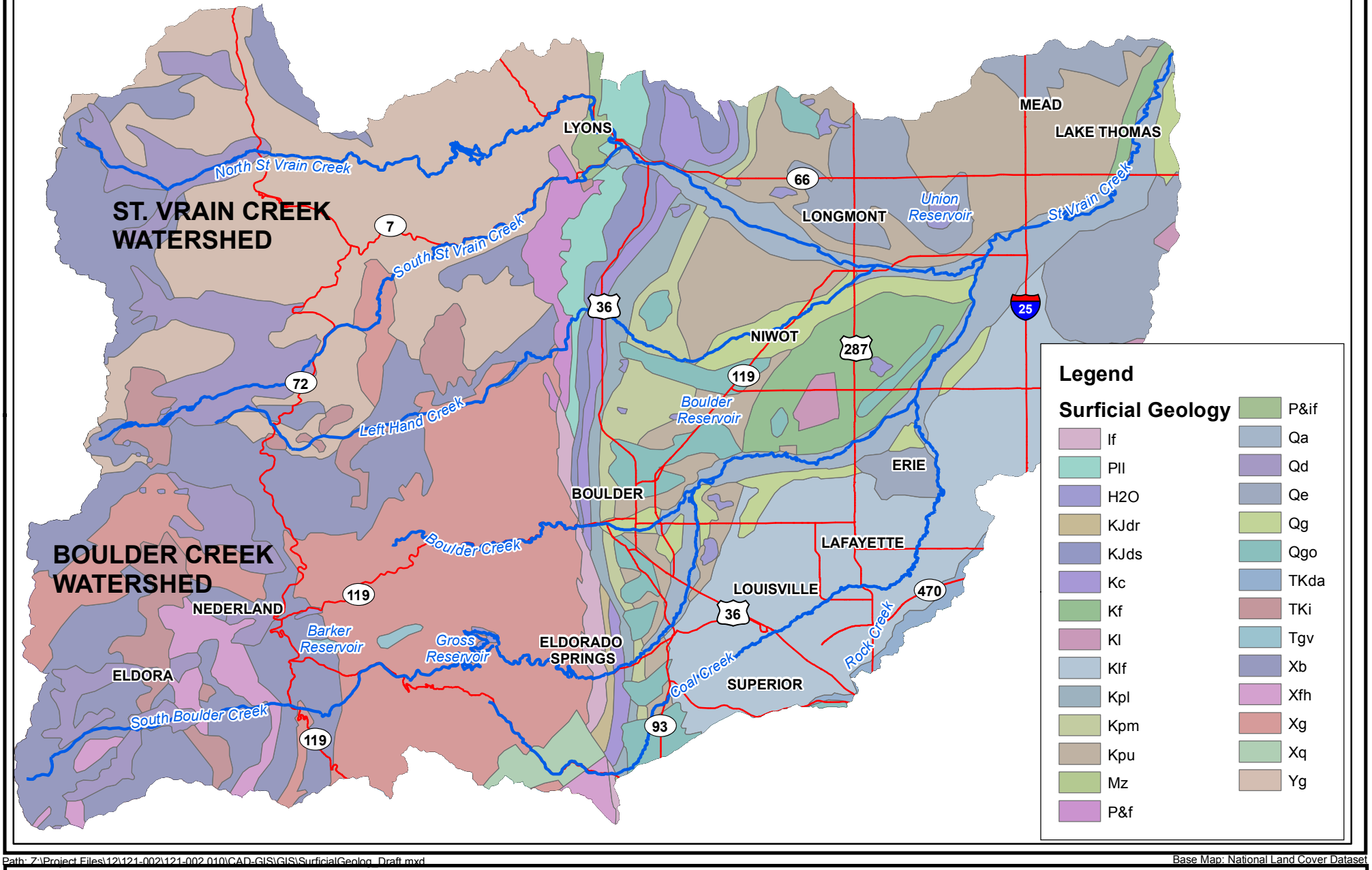
COLORADO OIL AND GAS
CONSERVATION COMMISSION WELL LOCATIONS & FACILITIES

N
W E
S

0 2.5 5 Miles

PROJECT NO. 121-002.010

FIGURE A-5



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Base Map: National Land Cover Dataset

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ST. VRAIN BASIN

SURFICIAL GEOLOGY

N W E S

0 1.5 3 6

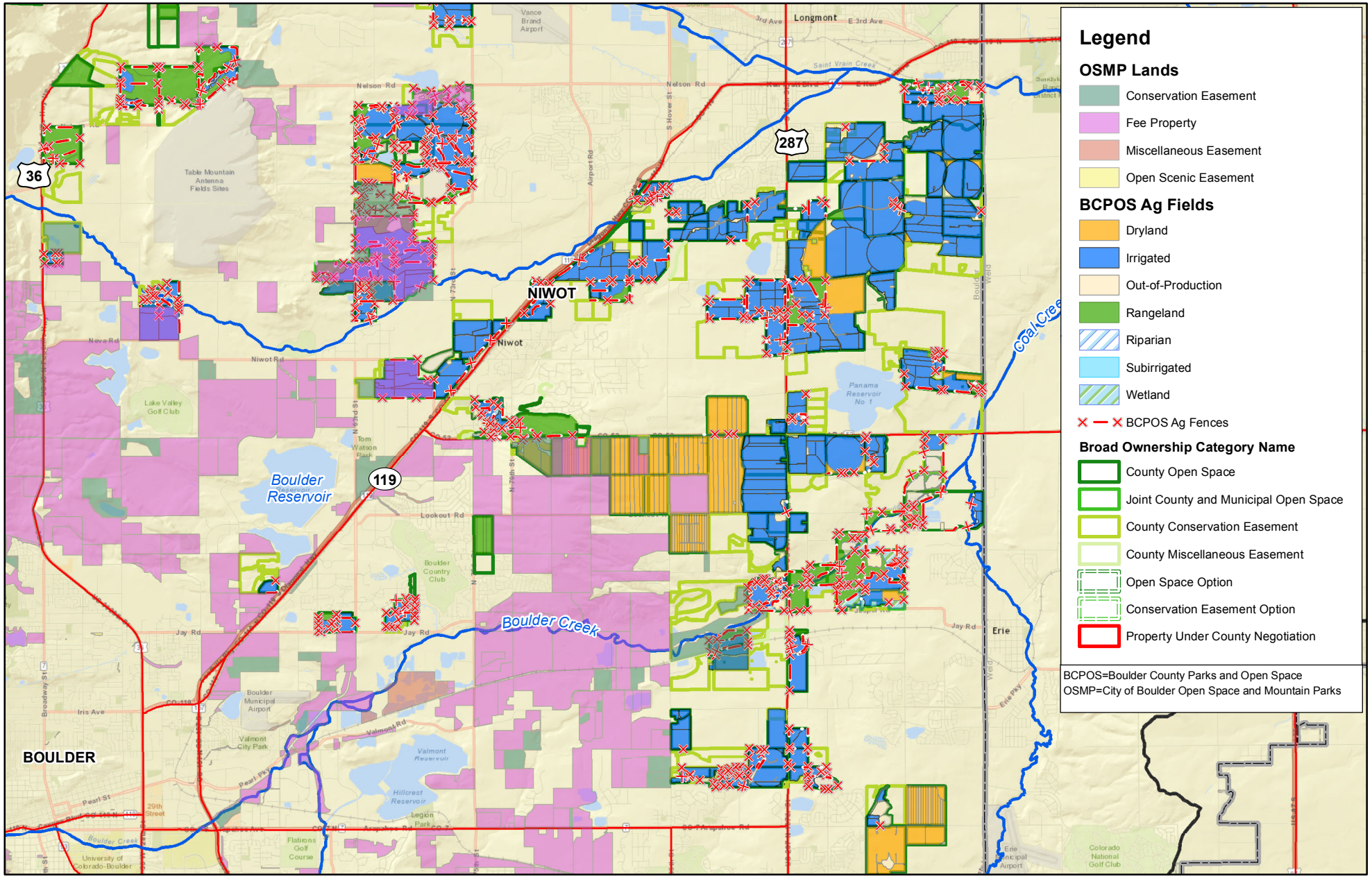
Miles

PROJECT NO. 121-002.010

FIGURE A-6

Figure A-6. Surficial Geology Legend Key

Map ID	Geologic Unit Age	Rock Type 1	Rock Type 2
lf	Triassic-Pennsylvanian	siltstone	sandstone
Pll	Triassic-Permian	sandstone	mudstone
H2O	N/A	water	
Kc	Cretaceous	shale	limestone
Kf	Cretaceous	sandstone	
KJdr	Cretaceous-Jurassic	sandstone	mudstone
KJds	Cretaceous-Jurassic	sandstone	mudstone
Kl	Cretaceous	shale	claystone
Klf	Cretaceous	sandstone	mudstone
Kpl	Cretaceous	shale	bentonite
Kpm	Cretaceous	shale	sandstone
Kpu	Cretaceous	shale	
Mz	Lower Cretaceous-Triassic	clastic	
P&f	Permian-Pennsylvanian	sandstone	conglomerate
P&if	Permian-Pennsylvanian	sandstone	limestone
Qa	Quaternary	alluvium	
Qd	Quaternary	glacial drift	
Qe	Quaternary	dune sand	silt
Qg	Quaternary	gravel	alluvium
Qgo	Quaternary	gravel	alluvium
Tgv	Tertiary	gravel	
TKda	Tertiary-Cretaceous	sandstone	mudstone
TKi	Tertiary-Cretaceous	granitoid	
Xb	Early Proterozoic	biotite gneiss	schist
Xfh	Early Proterozoic	felsic gneiss	mafic gneiss
Xg	Early Proterozoic	granite	granodiorite
Xq	Early Proterozoic	quartzite	conglomerate
Yg	Middle Proterozoic	granite	granodiorite



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AGRICULTURAL LAND IN BOULDER COUNTY UNDER PUBLIC OWNERSHIP

N
W E
S

0 0.5 1 2
Miles

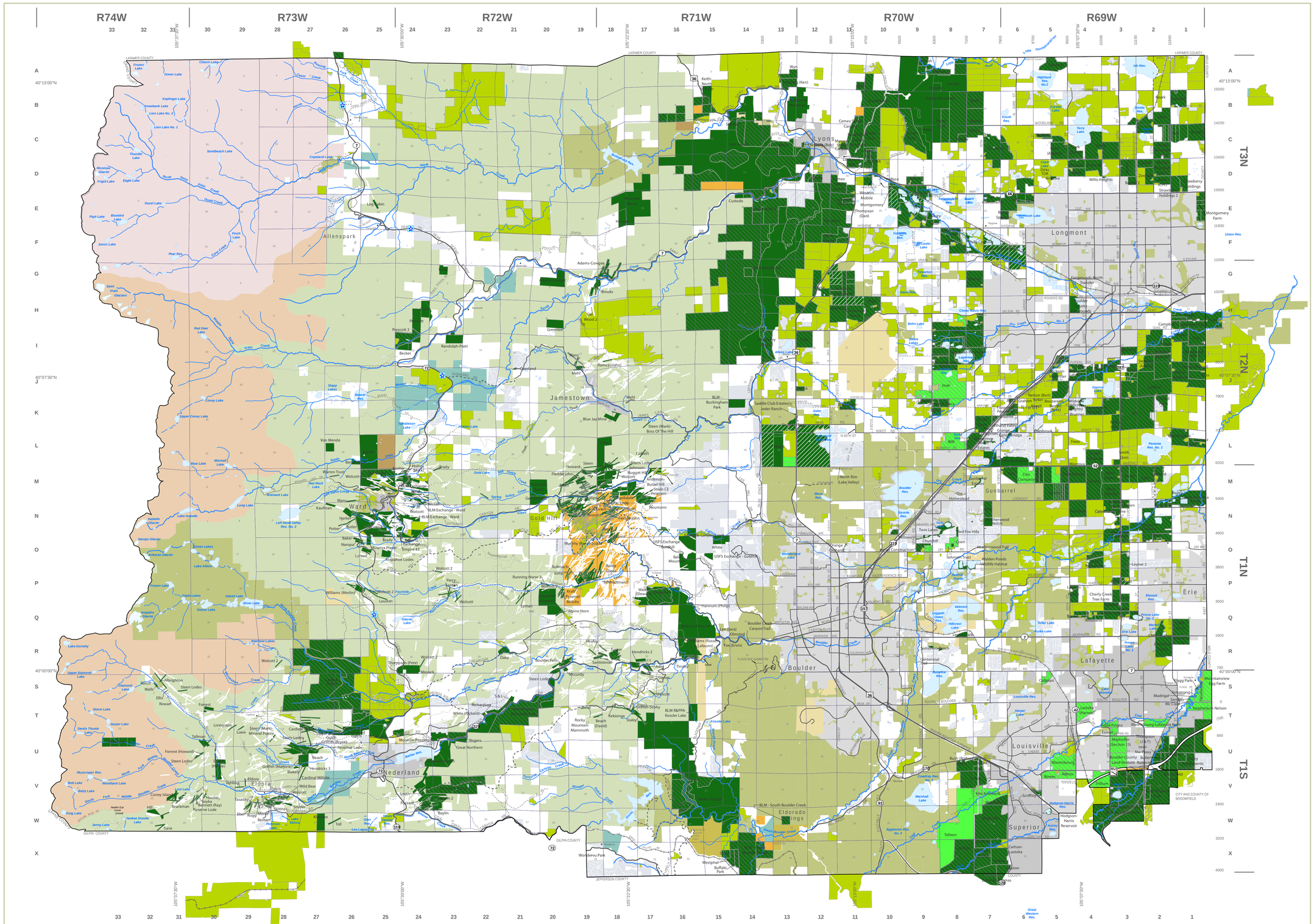
PROJECT NO. 121-002.010

FIGURE A-7

Figure A-8

Open Space in Boulder County

Boulder County Parks & Open Space



June 2015

- County Open Space
- Joint County/City Open Space
- County Conservation Easement
  Deed Restrictions & Restrictive Covenants
  Private Property, No Public Access
- County Option Parcels
- County Closed Areas
- County Seasonal and Temporary Closure Areas *

- City Parks and Open Space
- State Land Board
- State Parks
- Indian Peaks Wilderness
- USFS Land
- BLM Land
- Rocky Mountain National Park
- Other Public Lands
- Private Conservation Easements
- Subdivisions or Platted Area
- Incorporated Area

- U.S. / State Highway
- Northwest Parkway

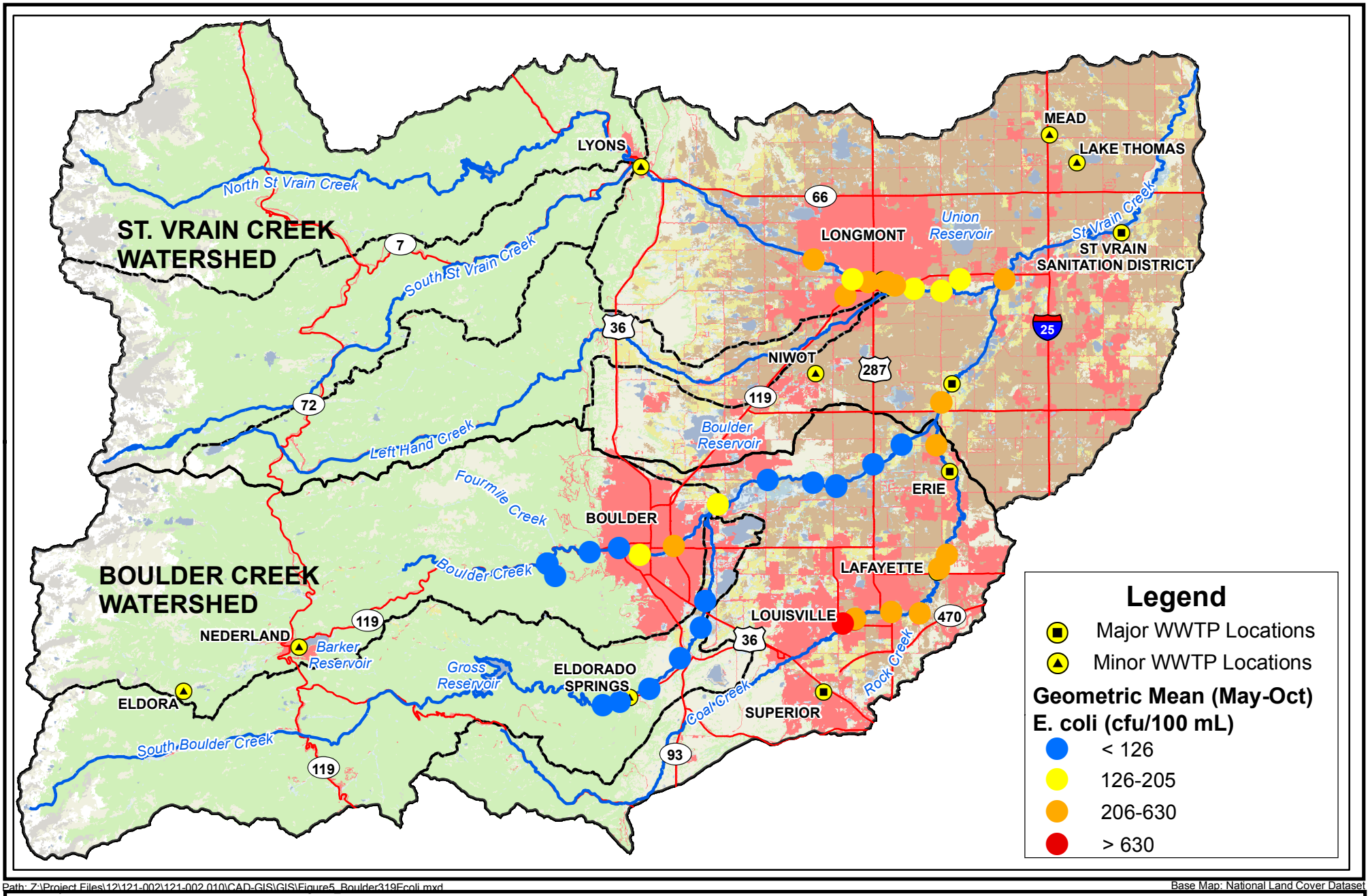
Unpaved / Paved
- Collector
- Local Access
- Jeep Trail

- Scenic Byways

* For individual property access and use details contact Boulder County Parks and Open Spaceat (303) 678-6200 or go to www.BoulderCountyOpenSpace.org/trails.

N

0 1 2
MILES



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Base Map: National Land Cover Dataset

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DENVER, CO. 80211
(303) 480-1700

ST. VRAIN BASIN

RECREATIONAL SEASON GEOMETRIC MEAN
E.coli (2010-2014)

0 1.5 3 6
Miles

PROJECT NO. 121-002.010

FIGURE A-9

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Appendix B

St. Vrain Basin Stream Gauge Locations and Hydrographs

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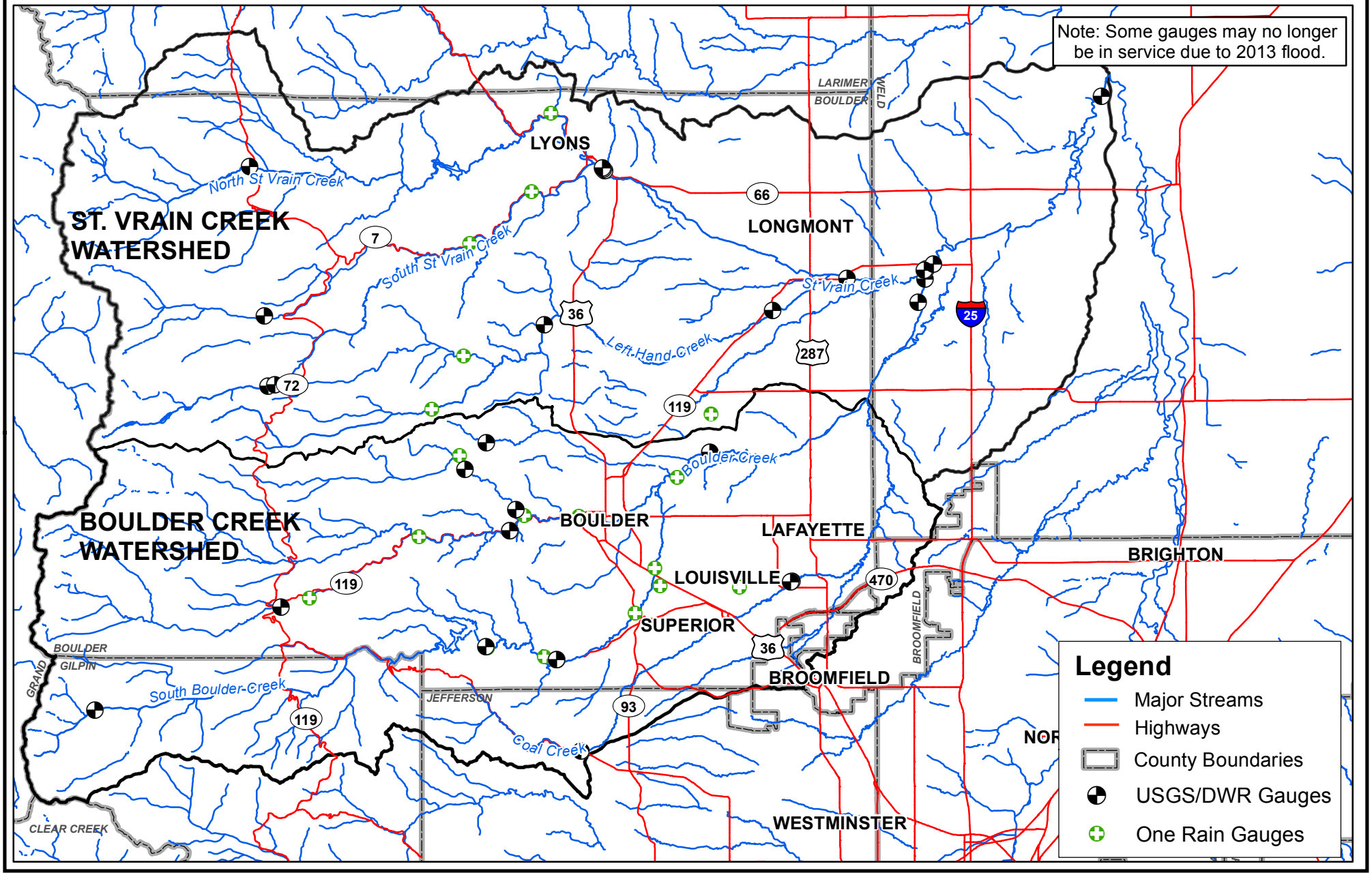
Table B-1. Stream Gauge Coordinates

USGS Station ID	Name	Station Name Desription	Type	Source	Latitude	Longitude
6721500	STALENCO	NORTH ST. VRAIN CREEK NEAR ALLENS PARK, CO. [*not active]*	Stream	USGS	40.218872	-105.52834
6722500	SSVWARCO	SOUTH ST. VRAIN CREEK NEAR WARD, CO.	Stream	DWR	40.09082	-105.51444
6724000	SVCLYOCO	ST. VRAIN CREEK AT LYONS, CO.	Stream	DWR	40.21804	-105.25999
6724500	LEFCRECO	LEFT HAND CREEK NEAR BOULDER	Stream	Other	40.126611	-105.30453
6724970	LEFTHOCO	LEFT HAND CREEK AT HOVER ROAD NEAR LONGMONT	Stream	USGS	40.134278	-105.13082
6725450	SVCBLOCO	ST. VRAIN CREEK BELOW LONGMONT, CO. [*Inactive post-2013 flood*]	Stream	USGS	40.158318	-105.01387
6725500	BOCMIDCO	MIDDLE BOULDER CREEK AT NEDERLAND, CO.	Stream	DWR	39.961655	-105.50444
6727000	BOCOROCO	BOULDER CREEK NEAR ORODELL, CO.	Stream	DWR	40.006374	-105.33083
6727410	FRMLMRCO	FOURMILE CREEK AT LOGAN MILL ROAD NEAR CRISMAN, CO	Stream	USGS	40.042028	-105.36492
6727500	FOUOROCO	FOURMILE CREEK AT ORODELL, CO	Stream	USGS	40.018667	-105.32625
6729450	BOCBGRCO	SOUTH BOULDER CREEK BELOW GROSS RESERVOIR	Stream	DWR	39.938598	-105.34916
6729500	BOCELSCO	SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, CO.	Stream	DWR	39.931099	-105.29582
6730160	-	FOURMILE CANYON CREEK NEAR SUNSHINE, CO	Stream	USGS	40.057611	-105.34878
6730200	BOCNORCO	BOULDER CREEK AT NORTH 75TH ST. NEAR BOULDER, CO	Stream	USGS	40.051652	-105.17888
6730300	COCREPCO	COAL CREEK NEAR PLAINVIEW, CO.	Stream	DWR	39.877766	-105.27721
6730400	COALOUCO, COC-1	COAL CREEK NEAR LOUISVILLE, CO; no longer managed by USGS/DWR	Stream	Other	39.976096	-105.11721
6730500	BOCLONCO	BOULDER CREEK AT MOUTH NEAR LONGMONT, CO	Stream	USGS	40.152207	-105.01498
6731000	SVCPLACO	ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO.	Stream	DWR	40.258038	-104.8797
9022500	MOFTUNCO	MOFFAT WATER TUNNEL AT EAST PORTAL, CO.	Canal/ Ditch	DWR	39.901653	-105.64556
-	BFCLYOCO	BOULDER CREEK FEEDER CANAL NEAR LYONS	Canal/ Ditch	DWR	40.216093	-105.25832
-	BOSDELCO	SOUTH BOULDER CREEK DIVERSION NEAR ELDORADO SPRINGS	Canal/ Ditch	DWR	39.931096	-105.29584
-	LEFTHDCO	LEFT HAND DIVERSION NEAR WARD	Canal/ Ditch	DWR	40.091372	-105.50917
-	SVSLYOCO	SAINT VRAIN SUPPLY CANAL NEAR LYONS, CO	Canal/ Ditch	DWR	40.2172	-105.25916
-	MIDSTECO	MIDDLE SAINT VRAIN AT PEACEFUL VALLEY	Stream	DWR	40.131924	-105.51722



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ST. VRAIN BASIN

GAUGE LOCATIONS

N W E S

0 2.5 5 Miles

PROJECT NO. 121-002.010

FIGURE B-1

Figure B-2. Boulder Creek near Orodell 2014 Hydrograph

Figure B-3. South Boulder Creek near Eldorado Springs 2014 Hydrograph

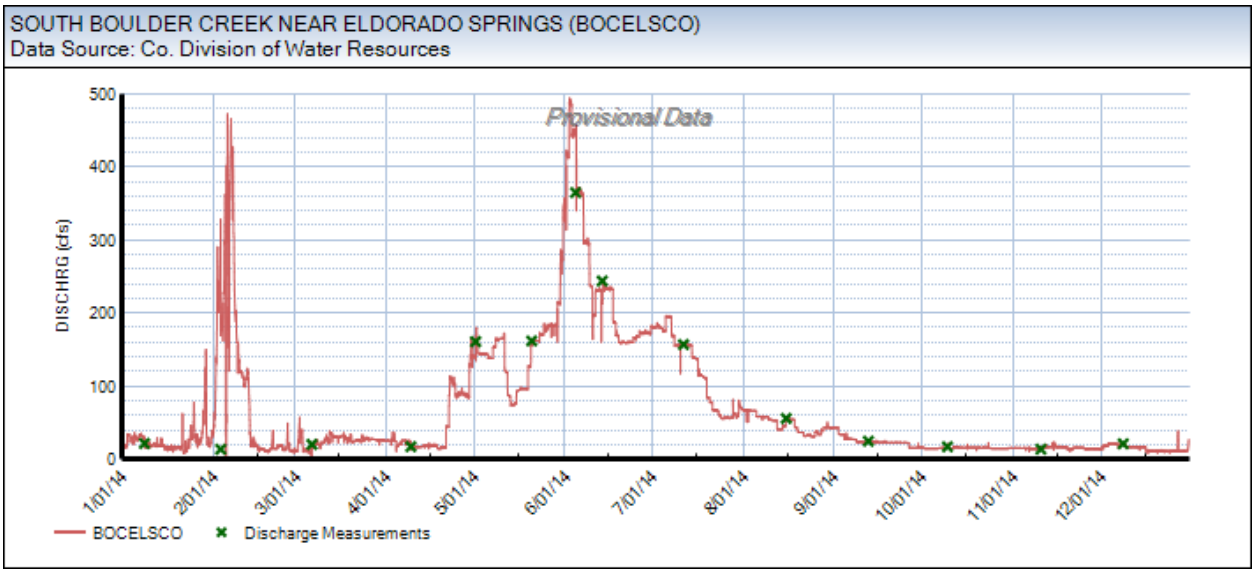


Figure B-4. Boulder Creek at North 75th Street 2014 Hydrograph

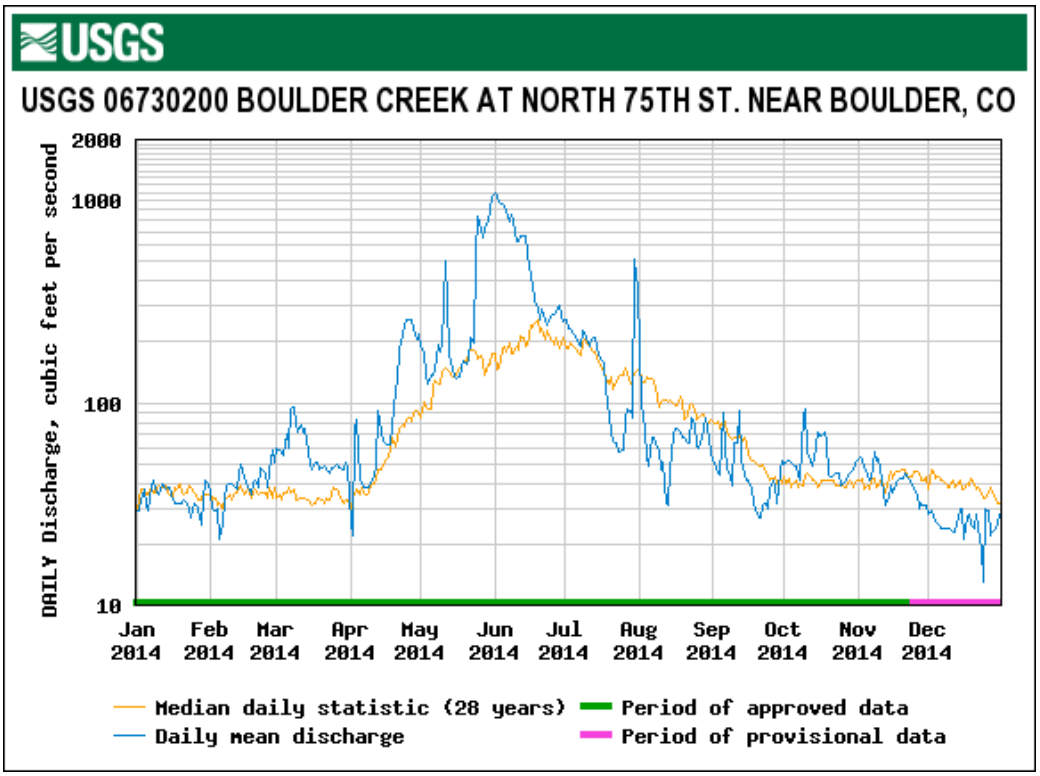


Figure B-5. Boulder Creek at Mouth near Longmont 2014 Hydrograph

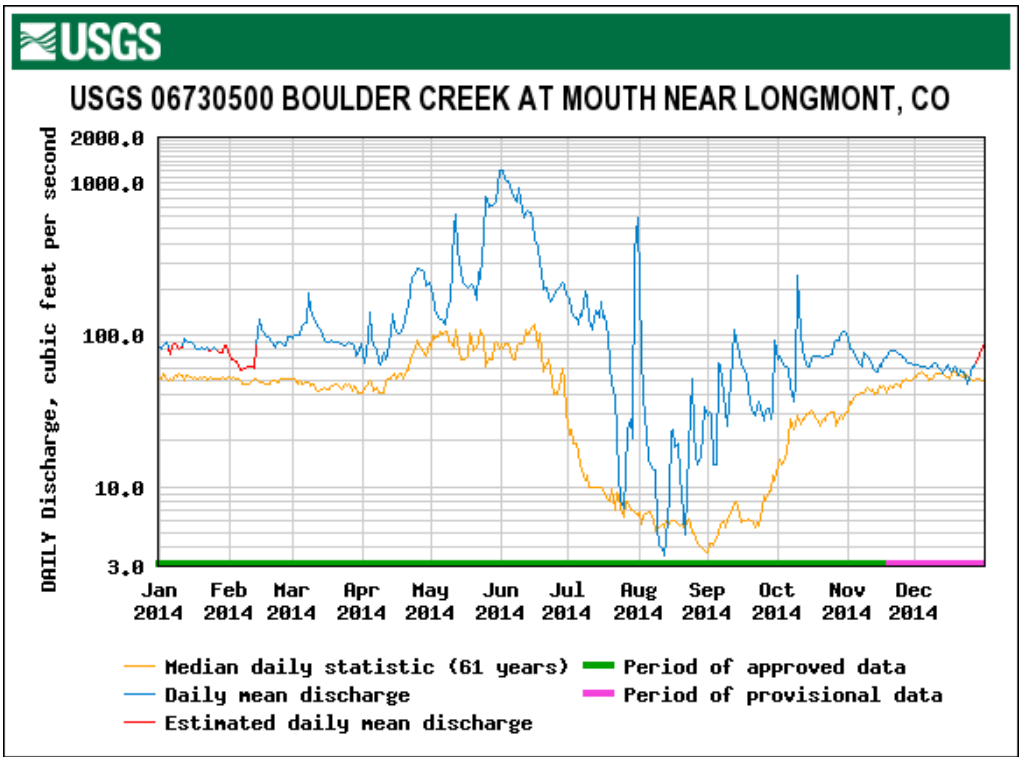


Figure B-6. Left Hand Creek at Hover Road near Longmont 2014 Hydrograph

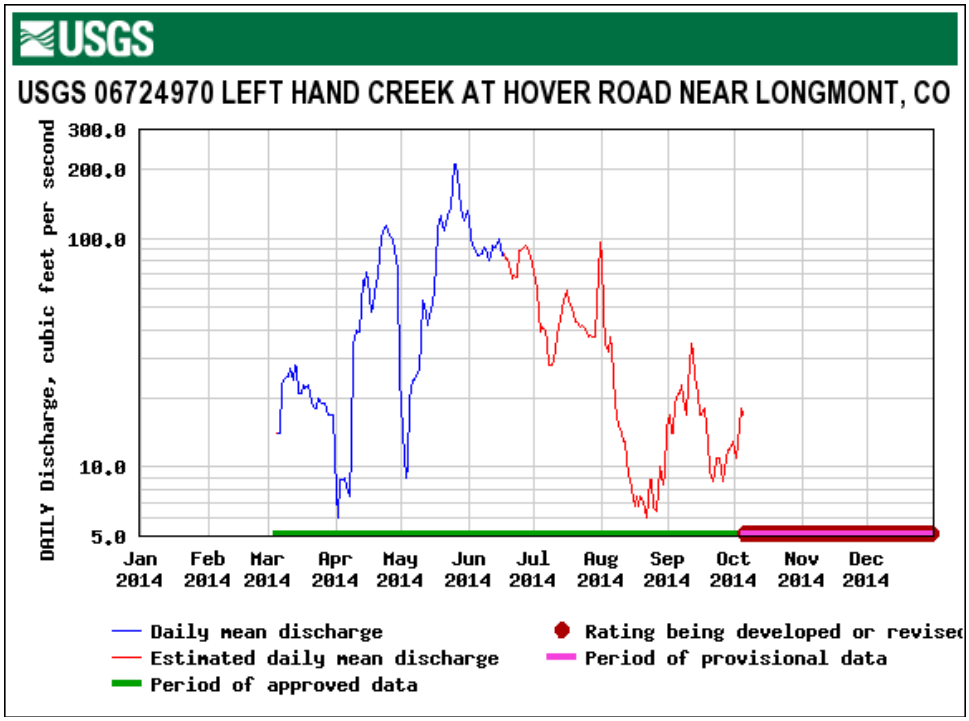


Figure B-7. St. Vrain Creek below Longmont 2014 Hydrograph

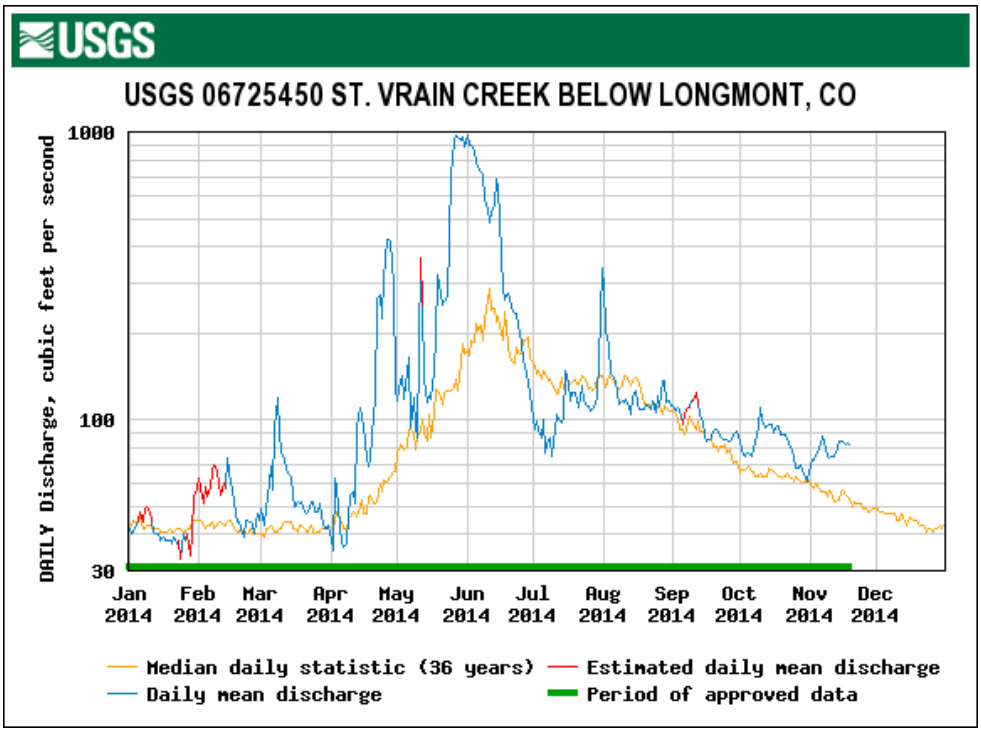


Figure B-8. St. Vrain Creek below Boulder Creek at Hwy 119 Near Longmont 2014 Hydrograph

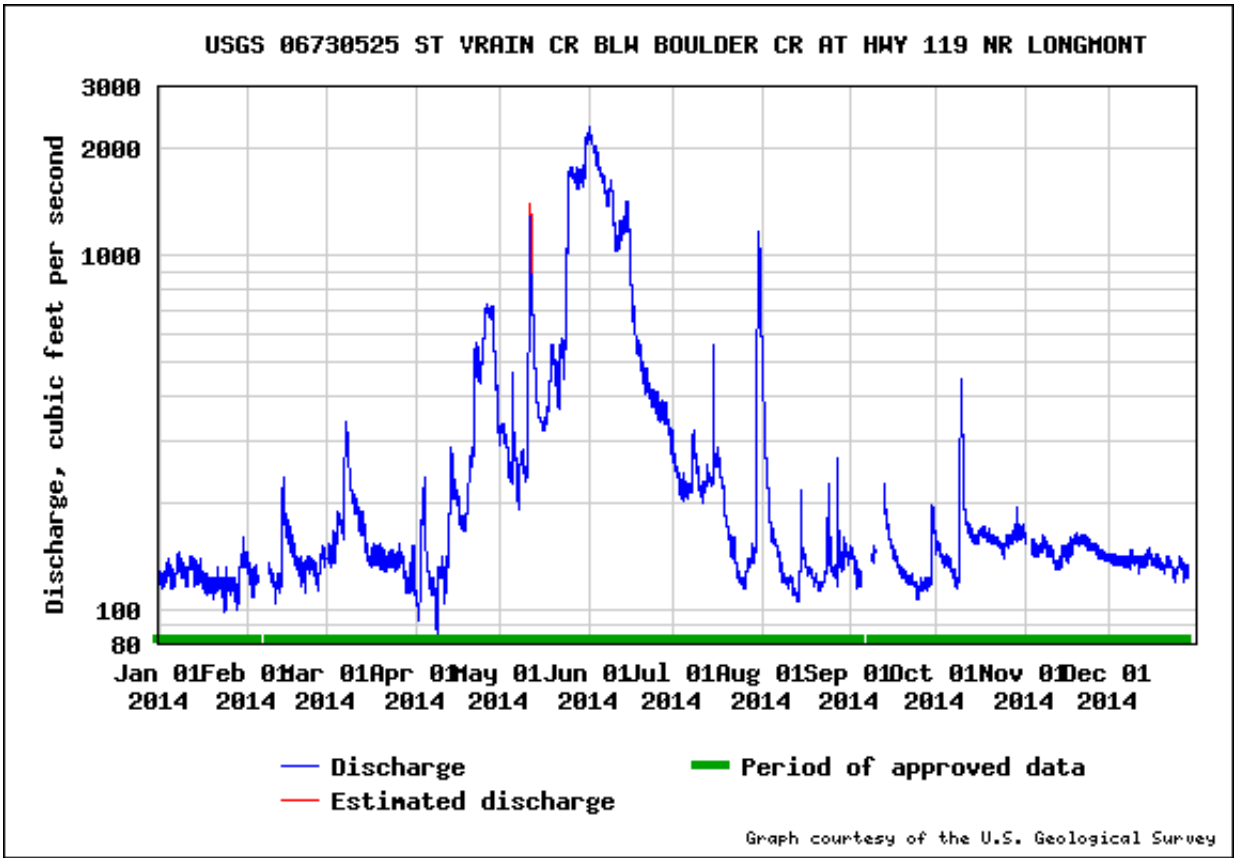


Figure B-9. St. Vrain Creek below Ken Pratt Blvd at Longmont 2014 Hydrograph

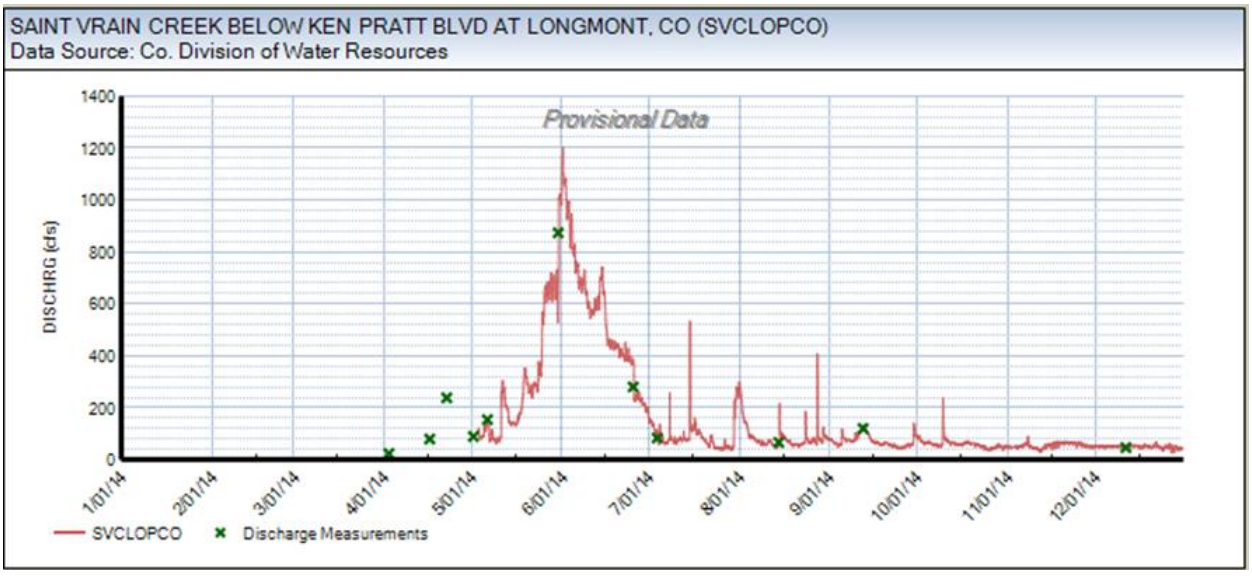
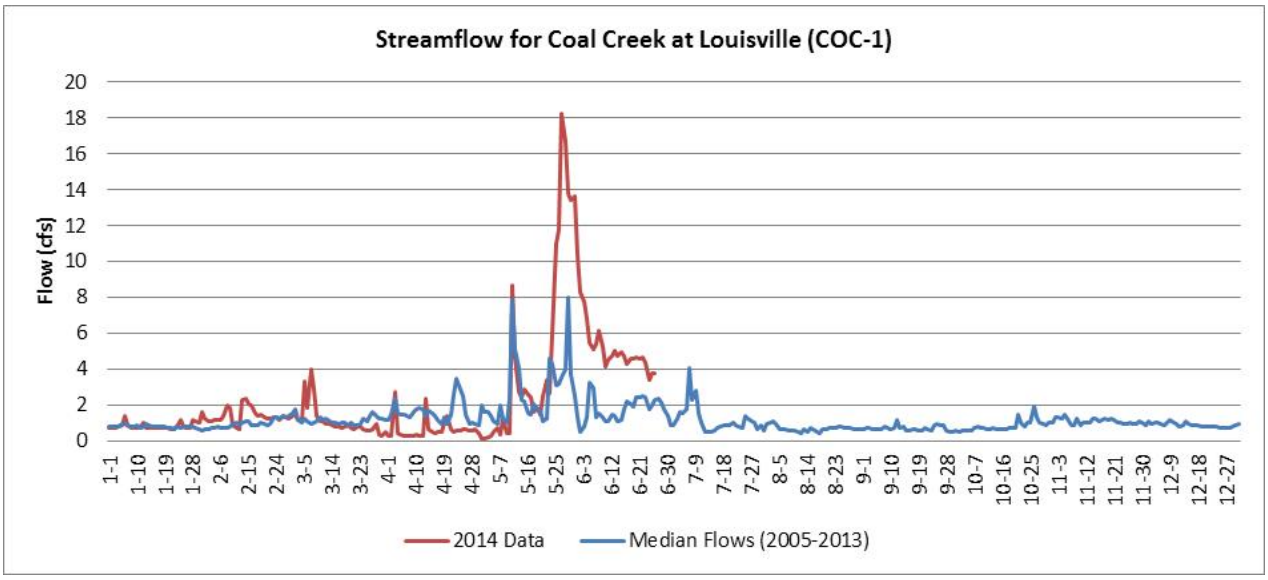


Figure B-10. Coal Creek at Louisville (COC-1) 2014 Hydrograph



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Appendix C

Boulder Creek-St. Vrain Creek Watershed Coordinated Monitoring Framework

(selected Figures and Tables)

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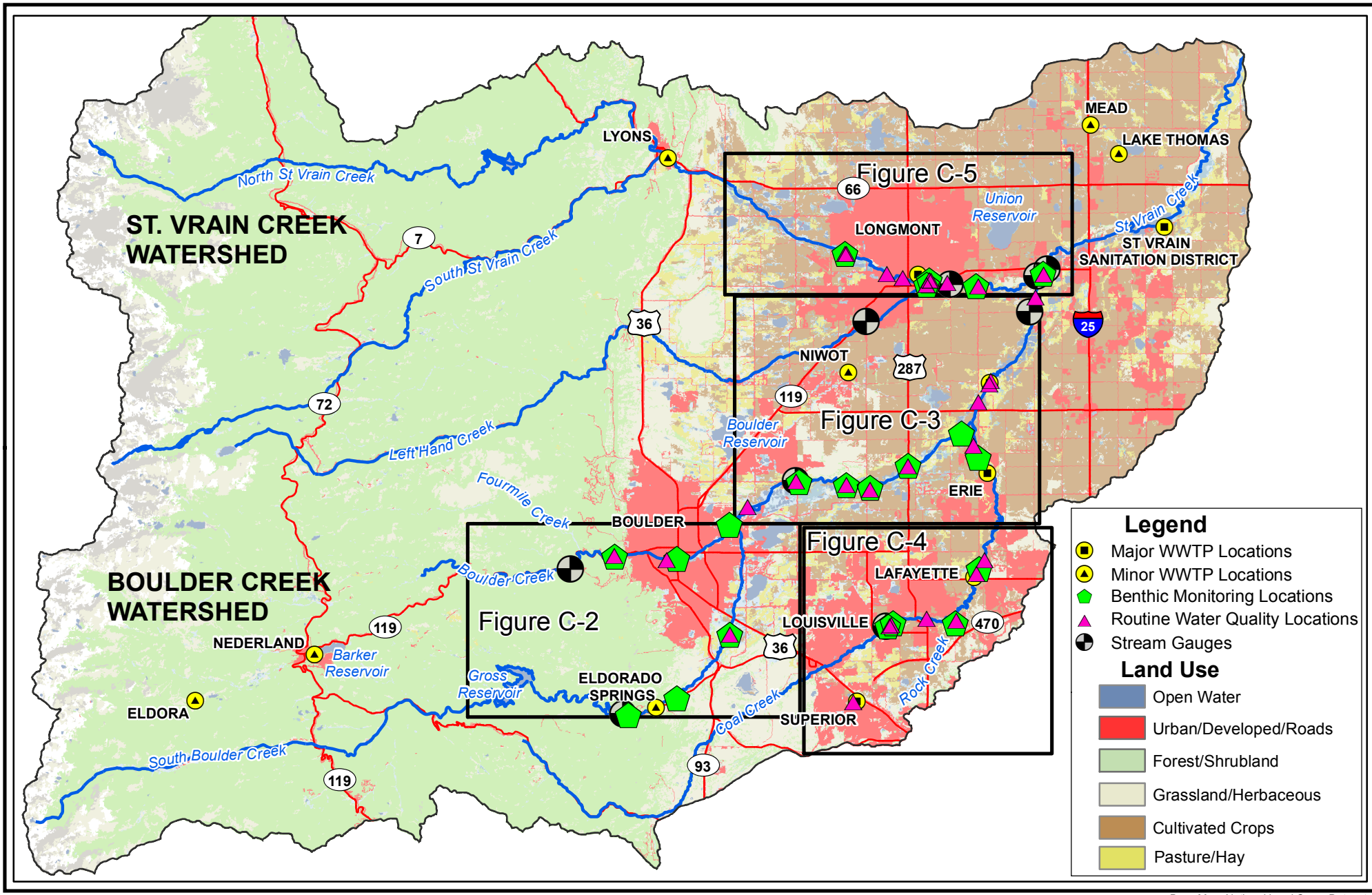
Table C-1. KICP Cooperative Monitoring Program Locations

Plot_ID	Instream Monitoring Location Description	Stream Name	Data Provider	DD_Lat	DD_Long	Flow Monitoring Type (or closest gauge)	Anticipated Monthly Sample Date
BC-Can	Pool area at Anderson Ditch head gate	Boulder Creek	City of Boulder	40.0132	-105.3015	USGS 06727000 aka BOCOROCO; BOULDER CREEK NEAR ORODELL, CO	Second Tuesday of month
BC-CU	Under foot bridge connecting Folsom Field with dirt parking lot to the North	Boulder Creek	City of Boulder	40.0111	-105.2661		Second Tuesday of month
BC-61	Just West of 61st St. bridge	Boulder Creek	City of Boulder	40.0381	-105.2116		Second Tuesday of month
BC-aWWTP	Under bridge at 75th St. Western side	Boulder Creek	City of Boulder	40.0515	-105.1786	USGS 06730200 aka BOCNORCO; BOULDER CREEK AT NORTH 75TH ST. NEAR BOULDER, CO	Second Tuesday of month
BC-aDC	Above Dry Creek	Boulder Creek	City of Boulder	40.0495	-105.1449	Flow Meter	Second Tuesday of month
BC-95	Downstream of Lower Boulder Ditch headgate 0.87 miles below BC-aDC sample site.	Boulder Creek	City of Boulder	40.0472	-105.1288		Second Tuesday of month
BC-107	Bridge at 107th Street	Boulder Creek	City of Boulder	40.0592	-105.1030		Second Tuesday of month
BC-bCC	Bridge where Boulder Creek goes under East County Line Road 2.13 miles below BC-Ken sample site.	Boulder Creek	City of Boulder	40.0921	-105.0553		Second Tuesday of month
SBC-3.5	Open Space at McGuinn Ditch gate	South Boulder Creek	City of Boulder	39.9722	-105.2236	USGS 06729500 aka BOCELSCO; SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, CO	Second Tuesday of month
CC-Ken	Bridge where Coal Creek goes under Kenosha Rd. 0.89 miles upstream from Boulder Creek confluence.	Coal Creek	City of Boulder	40.0695	-105.0590		Second Tuesday of month
9-BC	Boulder Creek above the North Erie WWTP discharge	Boulder Creek	Erie	40.1012	-105.0480		1st week of month
10-BC	Boulder Creek below the North Erie WWTP discharge	Boulder Creek	Erie	40.1030	-105.0470		1st week of month
11-BC	Boulder Creek Gage 06730500	Boulder Creek	Erie	40.1522	-105.0144	USGS 06730500 aka BOCLONCO; BOULDER CREEK AT MOUTH NEAR LONGMONT, CO	1st week of month
1-CC	Coal Creek above the Lousiville WWTP discharge	Coal Creek	Louisville	39.9761	-105.1164	USGS 06730400 aka COALOUCO; COAL CREEK NEAR LOUISVILLE, CO; aka COC-1	1st week of month
2-CC	Coal Creek below the Lousiville WWTP discharge	Coal Creek	Louisville	39.9765	-105.1160		1st week of month
3-CC	Coal Creek above the confluence with Rock Creek	Coal Creek	Lafayette	39.9799	-105.0909		1st week of month
6-CC	Coal Creek above the Lafayette WWTP discharge	Coal Creek	Lafayette	40.0032	-105.0574		1st week of month
7-CC	Coal Creek below the Lafayette WWTP	Coal Creek	Lafayette	40.0103	-105.0519		1st week of month
4-RC	Rock Creek above the Superior WWTP discharge	Rock Creek	Superior	39.9369	-105.1377		1st week of month
5-RC	Rock Creek above the confluence with Coal Creek	Rock Creek	Superior	39.9790	-105.0711		1st week of month
T11-LH	T-11, Lefthand Creek @ St Vrain	Left Hand Creek	Longmont	40.1551	-105.0874	Flow Meter	3rd Week of Month
M8.9-SV	M-8.9, St Vrain @ Golden Ponds	St. Vrain Creek	Longmont	40.1693	-105.1442	Flow Meter	3rd Week of Month
M8-SV	M-8, St Vrain @ Above Effluent	St. Vrain Creek	Longmont	40.1553	-105.0878	Flow Meter	3rd Week of Month
M7-SV	M-7, St Vrain @ 119	St. Vrain Creek	Longmont	40.1530	-105.0741	SAINT VRAIN CREEK BELOW KEN PRATT BLVD AT LONGMONT, CO (SVCLOPCO); also use flow meter	3rd Week of Month
M4-SV	M-4, St Vrain @ Above Boulder Creek Confluence	St. Vrain Creek	Longmont	40.1582	-105.0108	Flow Meter; (historic data from damaged gauge is USGS 06725450 ST. VRAIN CREEK BELOW LONGMONT, CO or SVBLOCO on the CDWR webpage)	3rd Week of Month
Planned Additions							
0-CC	Location above urbanized area	Coal Creek	Superior	39.9400	-105.1928	No flow gauge. WQ site may be added in the future. Approximate location.	1st week of month
LH-HOV	Left Hand Creek at Hover Gauge	Left Hand Creek	Longmont	40.1343	-105.1308	USGS 06724970 aka LEFTHOCO; LEFT HAND CREEK AT HOVER ROAD NEAR LONGMONT, CO. WQ site may be added in the future. Approximate location.	3rd Week of Month

Notes:

Samples are also collected at WWTP discharges, ideally corresponding to instream sample date.

Additional routine monitoring is also conducted by others; this table is limited to KICP monitoring locations.



Path: Z:\Project Files\12\121-002\121-002.010\CAD-GIS\GIS\Monitoring Plan Series\Figure 1_Boulder St Vrain Monitoring Locations_C1.mxd

Base Map: National Land Cover Dataset

WWE
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2490 W 26TH AVE 100A
DENVER, CO. 80211
(303) 480-1700

ST. VRAIN-BOULDER WATERSHED

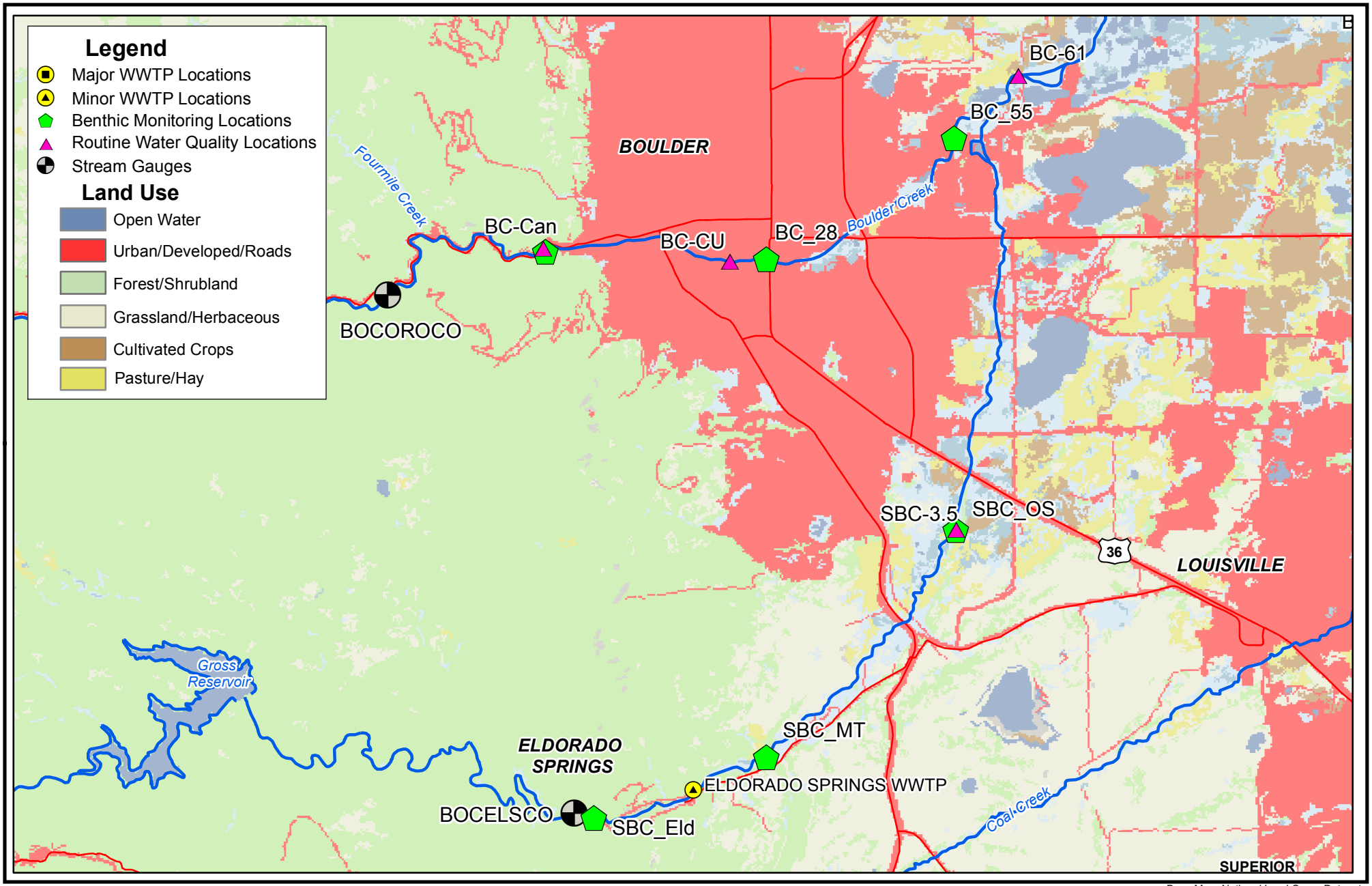
JOINT MONITORING PLAN LOCATIONS

N W E S

0 1.5 3 6
Miles

PROJECT NO. 121-002.010

FIGURE C-1



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Base Map: National Land Cover Dataset

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2490 W 26TH AVE 100A
DENVER, CO. 80211
(303) 480-1700

BOULDER CREEK WATERSHED

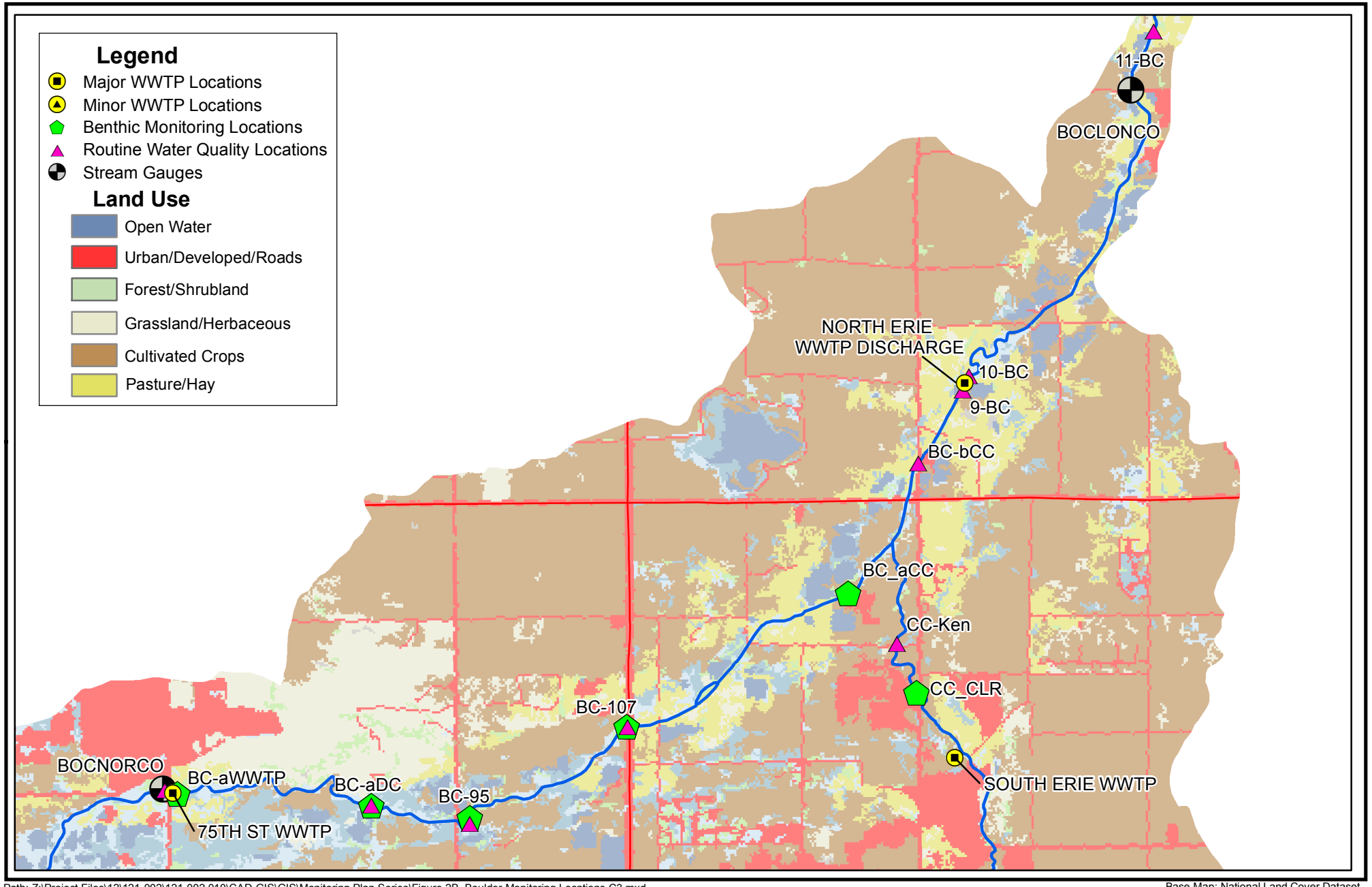
JOINT MONITORING PLAN LOCATIONS

N W E S

0 0.375 0.75 1.5
Miles

PROJECT NO. 121-002.010

FIGURE C-2



Path: Z:\Project Files\12\121-002\121-002.010\CAD-GIS\GIS\Monitoring Plan Series\Figure 2B_Boulder Monitoring Locations C3.mxd

Base Map: National Land Cover Dataset

WWE
WRIGHT WATER ENGINEERS, INC.
2490 W 26TH AVE 100A
DENVER, CO. 80211
(303) 480-1700

BOULDER CREEK WATERSHED

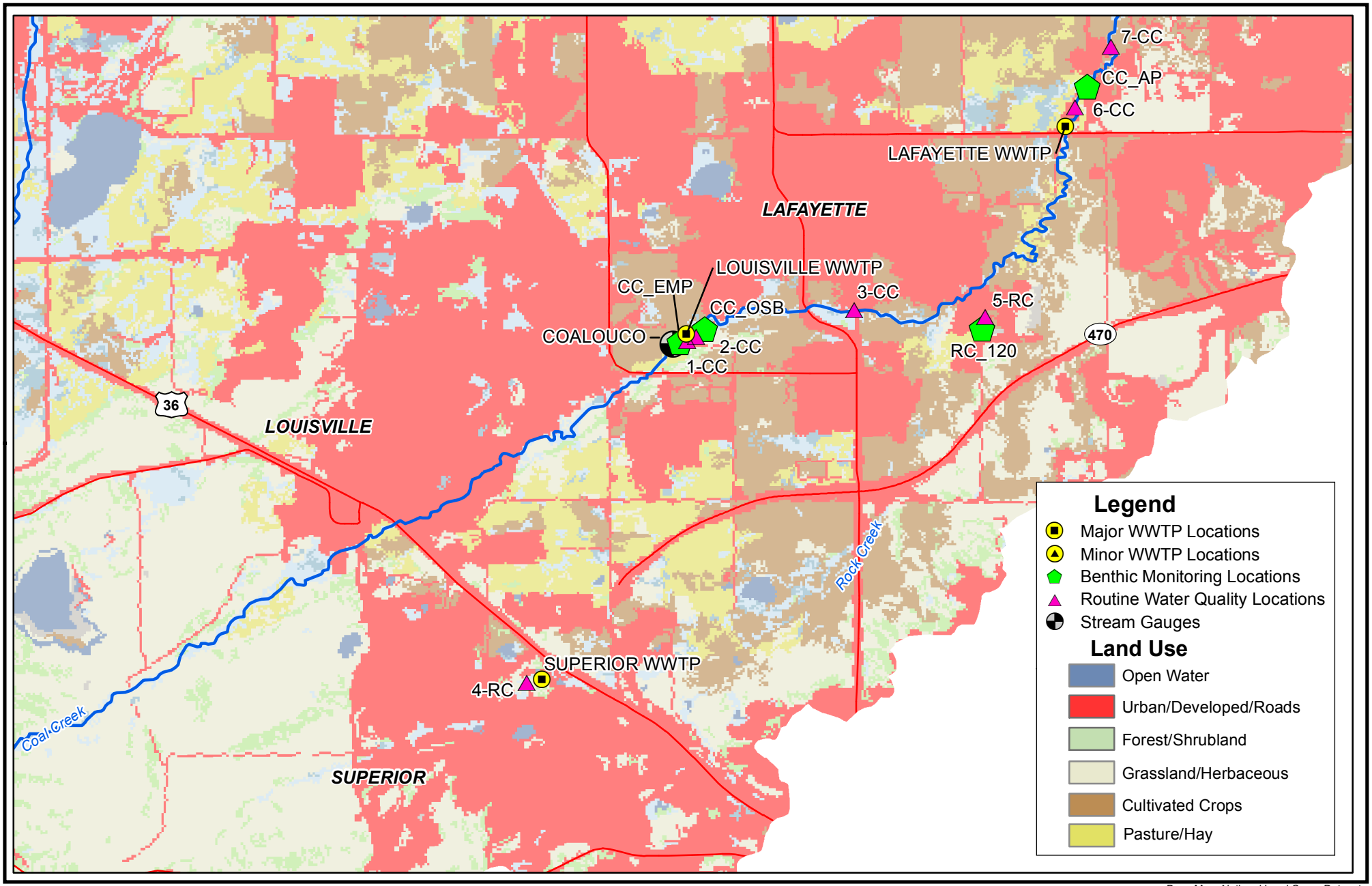
JOINT MONITORING PLAN LOCATIONS

N W E S

0 0.375 0.75 1.5
Miles

PROJECT NO. 121-002.010

FIGURE C-3



Path: Z:\Project Files\12\121-002\121-002.010\CAD-GIS\GIS\Monitoring Plan Series\Figure 2C_Boulder Monitoring Locations C4.mxd

Base Map: National Land Cover Dataset

WWE
WRIGHT WATER ENGINEERS, INC.
2490 W 26TH AVE 100A
DENVER, CO. 80211
(303) 480-1700

BOULDER CREEK WATERSHED

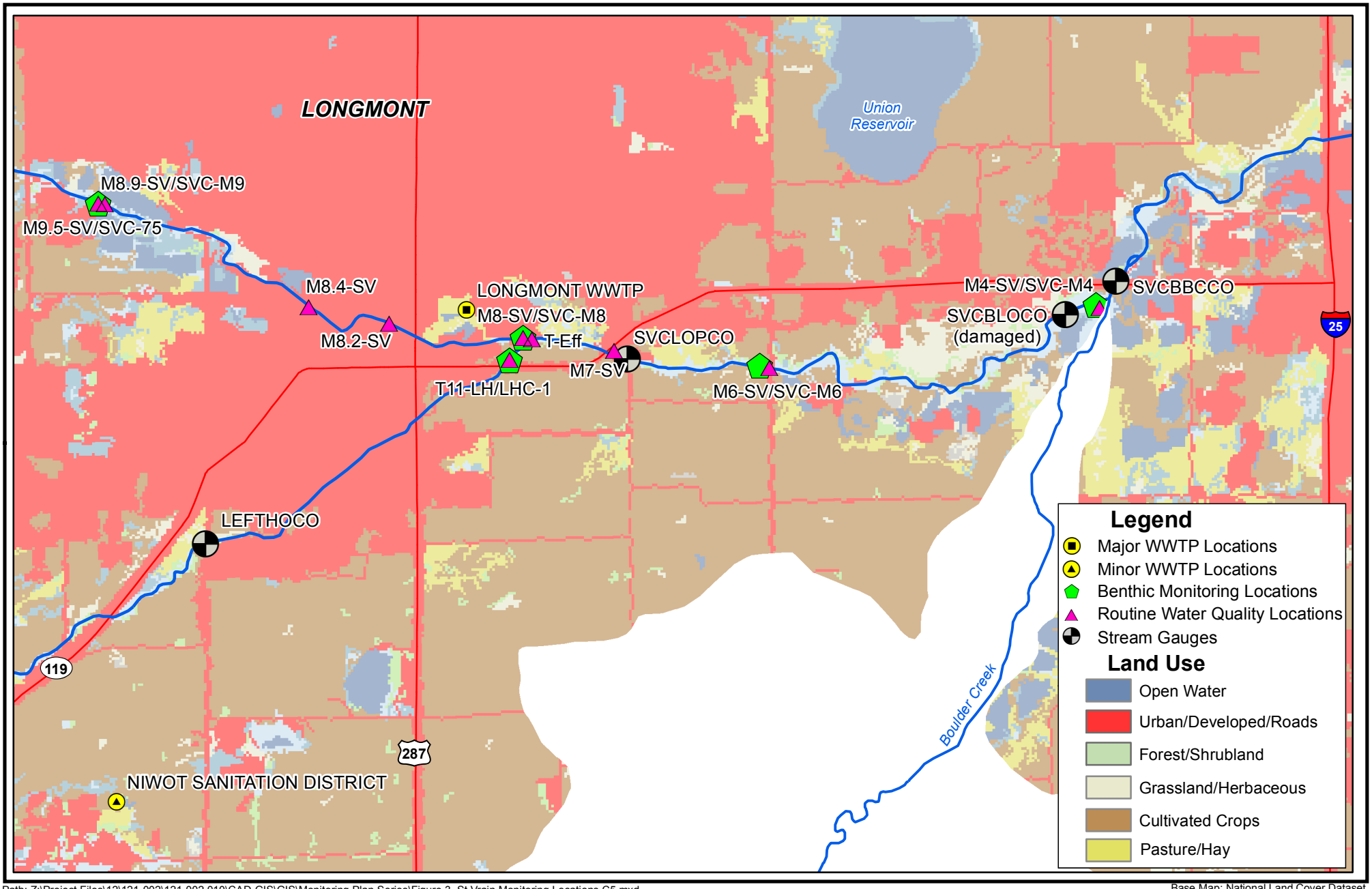
JOINT MONITORING PLAN LOCATIONS

N
W E
S

0 0.375 0.75 1.5
Miles

PROJECT NO.
121-002.010

FIGURE
C-4



Path: Z:\Project Files\12\121-002\121-002.010\CAD-GIS\GIS\Monitoring Plan Series\Figure 3_St Vrain Monitoring Locations C5.mxd

Base Map: National Land Cover Dataset

WWE
WRIGHT WATER ENGINEERS, INC.
2490 W 26TH AVE 100A
DENVER, CO. 80211
(303) 480-1700

ST. VRAIN CREEK WATERSHED

JOINT MONITORING PLAN LOCATIONS

N W E S

0 0.25 0.5 1
Miles

PROJECT NO. 121-002.010

FIGURE C-5

Appendix D

Regulation 38 Stream Standard Tables for St. Vrain Basin

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REGION: 3 AND 4 BASIN: **BOULDER CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS μg/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
1. All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks and James Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4a. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir except for specific listings in Segment 1.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: **BOULDER CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
4c. Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS P=170ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4d. Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS P=170ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
6. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to Highway 93.		Aq Life Cold 2 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7a. Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike).	~~UP~~	Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10~~0~~ Cl= 250 SO_4=WS P=170ug/l (tot)	As(ac)=340 As(ch)=~~7.60~~.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(~~ac~~/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS (dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS (dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek.		Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10~~0~~ Cl=250 SO_4=WS	As(ac)=340 As(ch)=~~100~~0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(~~ac~~/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS (dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS (dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
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.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2[C]	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=100 ~~Cl=250~~ ~~SO_4=250~~ P=170ug/l (tot)[C]	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS ~~CrIII(ac)=50(Trec)~~ CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	~~Fe(ch)=WS(dis)~~ Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS ~~Mn(ch)=WS(dis)~~ Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: Se(ch)=current condition Expiration date of 12/31/~~2015~~20.

REGION: 3 AND 4 BASIN: **BOULDER CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modifications: ~~Cu (ac/ch)=Current Condition. (Type iii).~~ ~~Expiration date of 12/31/2015.~~ T=current condition, Dec-Feb Expiration date of 12/31/20. As(ch)=hybrid Expiration date of 12/31/21.
10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.	UP	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
12. Deleted.									
13. All lakes and reservoirs tributary to Boulder Creek that are within the boundary of the Indian Peaks and James Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla= 8 ug/l[B]	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P= 25ug/l (tot)[B]	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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 and Lakewood Reservoir.		Aq Life Cold 1 Recreation E Water Supply Agriculture DUWS*	T=TVS(CL,CLL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla= 8 ug/l[B,C]	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P= 25ug/l(tot)[B,C]	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	*DUWS applies to Lakewood Reservoir only. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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 except for specific listings in segments 13 and 18.		Aq Life Cold 2 Recreation E Water Supply Agriculture DUWS*	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla= 8 ug/l[B,C]	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=25ug/l (tot)[B,C]	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	*DUWS applies to Kossler Lake only.

REGION: 3 AND 4 BASIN: **BOULDER CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS μg/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
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.		Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
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.		Aq Life Warm 2 Recreation E Water Supply Agriculture DUWS*	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Water + Fish Standards *DUWS applies to Baseline, Marshall, Thomas and Waneka Reservoirs only.
18. Gross Reservior		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C Gross Reservoir April-Dec T(WAT)=19.4°C[D] D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla= 8 ug/l [B,C]	NH3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS P=25ug/l (tot)[B,C]	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec))	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: **ST. VRAIN CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
1. All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m$^{2\,C}$	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)^C	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	~~Temporary modification:~~ ~~Cu(ch)=6.0 µg/l (dis).~~ ~~(Type iii).~~ ~~Expiration date of 12/31/2015.~~ Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River.		Aq Life Warm 1 Recreation E Agriculture	T=TVS(WS-I) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
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.	UP	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4b. Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION: 3 AND 4 BASIN: **ST. VRAIN CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS µg/l			
4c. Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5. Mainstem of Left Hand Creek, including all tributaries and wetlands from Highway 36 to the confluence with St. Vrain Creek.		Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-I) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m^2	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS P=170ug/l (tot)	As(ac)=340 As(ch)=0.02-10(Trec)[A] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
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.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS ~~Mn(ch)=WS(dis)~~ Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	~~Temporary modifications: Se(ch)=6.6µg/l (dis). (Type ii). Expiration date of 12/31/2015~~
7. Boulder Reservoir, Coot Lake, ~~and~~ Left Hand Valley Reservoir and Spurgeon Reservoir.		Aq Life Warm 1 Recreation E Water Supply Agriculture DUWS*	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	*DUWS applies to Boulder, Spurgeon and Left Hand Valley Reservoirs only. Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10. All lakes and reservoirs tributary to Left Hand Creek from sources to Highway 36.		Aq Life Cold 1 Recreation E Water Supply Agriculture DUWS*	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=8ug/l [B,C]	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.05 NO_3=10 Cl=250 SO_4=WS P=25ug/l (tot)[B,C]	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	*DUWS applies to Joder Reservoir only.

REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION: 3 AND 4 BASIN: **ST. VRAIN CREEK** Stream Segment Description	DESIG	CLASSIFICATIONS	NUMERIC STANDARDS PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS μg/l			TEMPORARY MODIFICATIONS AND QUALIFIERS
11. Barbour Ponds.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(~~ac/~~ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
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.		Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-~~10~~(Trec) Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Water + Fish Standards
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.		Aq Life Warm 2 Recreation E Water Supply Agriculture DUWS*	T=TVS(WL) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH_3(ac/ch)=TVS Cl_2(ac)=0.019 Cl_2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO_2=0.5 NO_3=10 Cl=250 SO_4=WS	As(ac)=340 As(ch)=0.02-10(Trec)[Δ] Cd(ac)=5.0(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(~~ac/~~ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=50(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Tot) Mo(ch)=150(Trec)	Ni(ac/ch)=TVS Ni(ch)=100(Trec) Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	*DUWS applies to Burch lake only.

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Appendix E

Keep It Clean Partnership Intergovernmental Agreement

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Intergovernmental Agreement for Implementation of the Keep it Clean Partnership Plan

This Intergovernmental Agreement ("Agreement"), is made and entered into this **9th day of March, 2013**, by and between BOULDER COUNTY, a body politic and corporate, and the CITIES OF BOULDER, LAFAYETTE, LONGMONT, and LOUISVILLE; and the TOWNS OF ERIE AND SUPERIOR, each a municipal corporation, collectively known as the "KEEP IT CLEAN PARTNERSHIP" and referred to herein individually as a "PARTY" or collectively as the "PARTIES."

RECITALS:

A. WHEREAS, the Code of Federal Regulations (CFR) Section 40 CFR 122.26 requires that operators of small municipal storm sewer systems ("MS4s") obtain permits for discharging stormwater from their systems. The PARTIES are all small MS4 operators, as defined in the Code of Federal Regulations. In Colorado, stormwater discharge permits are issued by the Water Quality Control Division (the "Division") of the Colorado Department of Public Health and Environment (CDPHE) under Water Quality Control Regulation No. 61, "Colorado Discharge Permit System Regulations" (CDPS). Small MS4s are covered under the Division's General Permit for stormwater discharges ("MS4 permit."); and

B. WHEREAS, the PARTIES have all been issued certifications to discharge stormwater under the general stormwater permit issued by the CDPHE; and

C. WHEREAS, the PARTIES have agreed to collaborate as the KEEP IT CLEAN PARTNERSHIP ("KICP"), in jointly developing and implementing a plan to assist the PARTIES in complying with the requirements of their MS4 permits and protecting water quality in the Boulder Creek and St. Vrain Creek watersheds; and

D. WHEREAS, on January 23, 2003, the initial Intergovernmental Agreement ("IGA") for implementation of the WATERSHED APPROACH TO STREAM HEALTH ("WASH," which subsequently became the KICP) Plan was entered into by and between Boulder County; the cities of Boulder, Longmont, and Louisville; and the towns of Erie and Superior (the "2003 WASH IGA"); and

E. WHEREAS, on January 1, 2008, the second IGA became effective for a term of five years; and

F. WHEREAS, on April 1, 2011, the third IGA became effective with the inclusion of the City of Lafayette; and

G. WHEREAS, the PARTIES are individually responsible for ensuring compliance with the terms and conditions of their MS4 permits within their respective jurisdictions; and

H. WHEREAS, the PARTIES are authorized to enter into this Agreement pursuant to Colorado Revised Statutes (C.R.S.) §29-1-201, *et seq.*

NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

SECTION 1. The Keep it Clean Partnership and Keep it Clean Partnership Plan

1.01 The PARTIES will participate in the KICP to jointly identify and address stormwater quality requirements in each of their MS4 permits.

1.02 The PARTIES will participate in implementation of the KICP Plan ("the Plan"). The Plan is developed and maintained by the PARTIES and identifies the joint activities and programs that can help meet the minimum control measures ("MCM's") in the PARTIES' respective MS4 permits and, if agreed upon by the PARTIES, may also address other stormwater-related water quality issues in the PARTIES' jurisdictions. The Plan will be periodically revised by the PARTIES to reflect changes in MS4 permit requirements or new or modified strategies or programs agreed to by the PARTIES. Revisions to the Plan will be approved by all of the members of the Steering Committee as defined in Section 2 of this Agreement.

1.03 In implementing the Plan, the PARTIES will jointly develop annual work plans and budgets, identify funding needs and apportionment of funds, and define and maintain a management structure for the KICP.

SECTION 2. Steering Committee

2.01 The Steering Committee is the official management and oversight body for implementing the Plan. The Steering Committee shall consist of representatives from each of the PARTIES and shall direct and guide the shared components of the Plan and review and approve a collective budget for the shared portions of the Plan ("Plan Budget"). The Steering Committee shall consider permit compliance as a primary objective in approving Plan tasks and corresponding budgets.

2.02 The Steering Committee shall periodically re-evaluate the implementation of the Plan and determine the annual contributions of each PARTY in funding the Plan and related administrative costs.

2.03 The voting membership of the Steering Committee shall consist of one designated voting representative from each of the PARTIES. An alternate voting representative may be appointed by each of the PARTIES.

2.04 A quorum of the Steering Committee shall consist of more than fifty percent of the voting membership. Although it is anticipated that decisions will be made by group discussion to reach general agreement, any of the PARTIES may require that a formal vote be taken. A formal vote requires that a quorum must be present, and except for measures requiring a greater or lesser majority under this Agreement, the affirmative vote of at least two-thirds of all voting representatives present of the Steering Committee shall be required to approve any measure brought to a formal vote before the Steering Committee.

2.05 The Steering Committee shall have the authority to adopt and amend bylaws with a two-thirds vote of a quorum of all voting representatives present.

2.06 The Steering Committee shall be responsible for selecting any consultant(s) or contractor(s) to be paid from Plan funds ("Outside Contractor"), and for reviewing and approving contracts with Outside Contractors, including the scope(s) of work, schedules of performance, use of subcontractors, and compensation for such Outside Contractors. Award of contracts to Outside Contractors will be administered according to procedures outlined in Section 4.02 and 4.03 of this Agreement.

2.07 The Steering Committee shall select an employee of one of the PARTIES or an Outside Contractor to act as KICP Coordinator ("Coordinator") for the Plan. An individual employee selected as the Coordinator shall at all times be managed by the employee policies of the respec-

tive PARTY. The Coordinator shall be responsible for Plan management and administration and technical project management in accordance with the Plan, this Agreement, the Steering Committee's bylaws, and as directed by the Steering Committee in the best interest of the PARTIES as a whole and individually. The Coordinator shall be paid from Plan funds in accordance with the adopted Plan Budget for providing the services described hereunder. The Coordinator shall not be responsible for providing program management services related to individual PARTY'S KICP Plan programs, but may provide such services under a separate contract with any one or more of the PARTIES if allowed by personnel policies of the PARTY employing the Coordinator.

2.08 The Steering Committee shall establish timelines and budgets for completion of Plan tasks. The Steering Committee shall periodically evaluate the Plan and the performance of the activities and programs in the Plan, including those performed by Outside Contractors, in meeting the goals and objectives of the KICP. The Plan and Plan Budget will be revised as necessary to meet the goals and objectives.

2.09 The Steering Committee shall annually rate the performance of the Coordinator in managing the Plan, including directing the activities defined in the Plan, coordinating the PARTIES' joint responsibilities and meeting the timelines and Plan Budget. If the Coordinator is an employee of one of the PARTIES, the Steering Committee's rating shall be submitted to that PARTY for consideration in the performance review of the Coordinator.

2.10 The Steering Committee, through its bylaws, shall establish procedures for tracking, accounting for, and auditing the Plan funds.

SECTION 3. Plan Budget

3.01 The PARTIES will jointly develop and fund a Plan Budget to implement the Plan. The Plan Budget may be based upon a projection of two consecutive calendar year cycles, but shall be adopted for only one calendar year cycle.

3.02 Subject to annual appropriation, the PARTIES shall each pay a yearly assessment into a fund established for the Plan operations for their assigned portion of the then current year Plan Budget. The share of the Plan Budget that each PARTY shall pay is the prorated share of the costs proportional to the population within each PARTY'S permitted area based on the most current U.S. Census Bureau Population Estimates.

3.03 In addition to the Plan Budget, individual PARTIES may also contract for additional services through the KICP if the additional administrative fees are also allocated from the requesting PARTY.

3.04 Except as provided in Section 6.03 of this Agreement, after all program expenses have been accrued for each calendar year, the actual costs will be reconciled with the funds already provided by each PARTY. Any differences will be reflected in assessments for the next calendar year.

3.05 Nothing in this Agreement is intended to create a multiple year fiscal obligation of any PARTY, or a pledge or lien on any source of funds or accounts of any PARTY.

SECTION 4. Contracting/Fiscal Agent

4.01 The Contracting/Fiscal Agent shall be the treasurer of Plan funds. The Contracting/Fiscal Agent, in accordance with generally accepted accounting procedures, shall keep the Plan funds segregated from any other funds administered by the Contracting/Fiscal Agent; shall credit the Plan with appropriate interest income earned on Plan funds in each calendar year; and shall not expend any funds except in accordance with the annual Plan Budget approved by the Steering Committee or as otherwise directed by the Steering Committee.

4.02 Unless otherwise decided by a majority vote of the Steering Committee, or as otherwise outlined in this Agreement, BOULDER COUNTY PUBLIC HEALTH ("BCPH") shall serve as the Contracting/Fiscal Agent for the Plan.

4.03 In the event that the Contracting/Fiscal Agent withdraws from providing Contracting/Fiscal services to the Plan or the Steering Committee chooses to discontinue the services of the Contracting/Fiscal Agent, another PARTY may serve as a successor Contracting/Fiscal Agent. One hundred and twenty (120) days written notice shall be provided to the PARTIES in the event of withdrawal or discontinuation of the services of the Contracting/Fiscal Agent. Selection of a Contracting/Fiscal Agent must be by majority vote of the Steering Committee.

4.04 The Contracting/Fiscal Agent shall execute contracts which have been requested and approved by the Steering Committee.

4.05 The governing body of the Contracting/Fiscal Agent, at its discretion, may delegate the authority to execute agreements and contracts approved by the Steering Committee to a designated employee. Notice of any such delegation of authority shall be provided to the Steering Committee.

4.06 The Contracting/Fiscal Agent may request, as part of the annual Plan Budget, reimbursement for administrative costs incurred in providing the services described in this section and in the bylaws.

SECTION 5. Ancillary Rights and Duties of the PARTIES

5.01 In addition to participation in the Steering Committee, each PARTY accepts and agrees to perform the operational and administrative tasks specific to the PARTY identified in the Plan.

SECTION 6. Effective Date and Term of Agreement

6.01 This Agreement shall take effect and commence on **March 9, 2013**, provided it has been executed by a duly authorized representative of each of the PARTIES. This Agreement supersedes and replaces any prior KICP agreements between the PARTIES.

6.02 The initial term of this Agreement shall be for five years from the date of its execution. After the initial term, this Agreement shall be automatically renewed for an additional five-year term, unless terminated as provided in Section 6.04.

6.03 A new PARTY may initiate its participation in this Agreement by giving the Steering Committee at least ninety (90) days' written notice and upon a formal vote of the Steering Committee accepting their participation. Any PARTY to this Agreement must be a governmental agency with authority to enter into this Agreement under C.R.S. §29-1-201, *et seq.* and must execute this Agreement prior to commencing participation. A new PARTY shall be admitted to participation only upon approval of the Steering Committee, under such conditions as the Steering Committee in each case or from time-to-time establishes in furtherance of the purposes and provisions of this Agreement.

6.04 Any PARTY may terminate its participation in this Agreement by giving the Steering Committee at least thirty (30) days' written notice. Termination shall constitute forfeiture of the terminating PARTY'S entire share of the Plan Budget for the fiscal year in which the termination occurred (including both paid and obligated but unpaid amounts) and of the terminating PARTY'S share of any unexpended, unencumbered funds remaining from all previous fiscal years. The cost allocations for the remaining PARTIES shall be recalculated for the following fiscal year by the remaining PARTIES without the withdrawing PARTY'S participation.

SECTION 7. General Legal Provisions

7.01 This Agreement may be amended or terminated by unanimous written agreement of the PARTIES. All PARTIES agree to submit to their Council or Board for approval of any proposed amendments to this Agreement, as applicable, within three (3) months following acceptance by the Steering Committee. No Plan Budget amendment which increases the Plan Budget will be effective unless approved by a unanimous vote of a quorum of the Steering Committee.

7.02 No PARTY shall, by entering into this Agreement, participating in the Steering Committee, or agreeing to serve as Fiscal/Contracting Agent or Coordinator, be deemed to assume responsibility for any other PARTY'S obligations to comply with the requirements of the that PARTY'S MS4 permit. This Agreement is intended solely for the convenience and benefit of the PARTIES hereto and shall not be deemed to be for the benefit of any third party and may not be enforced by any third party, including, but not limited to, the U.S. Environmental Protection Agency, the Division, or any person acting on their behalf or in their stead.

7.03 Nothing in this Agreement shall be construed to waive or cede any jurisdiction that any of the PARTIES may possess.

7.04 Nothing in this Agreement shall create any joint or several liability or joint and several exposure to any participating PARTY for statutory or administrative violations associated with illicit discharges or compliance responsibilities. Joint action under this Agreement is strictly limited to the permitting, planning, and other related processes as described herein, unless otherwise agreed.

7.05 By entering into this Agreement, no PARTY waives or intends to waive, as to any person not a party to this Agreement, the monetary limitations or any other rights, immunities, and protections which are provided to the PARTY under the Colorado Governmental Immunity Act, Section 24-10-101, *et seq.*, C.R.S.

7.06 This Agreement may be executed in any number of counterparts each of which, when taken together, shall constitute one agreement. This Agreement shall only be effective when counterparts are signed by all the PARTIES.

IN WITNESS WHEREOF, the PARTIES hereto have executed this Agreement as of the dates shown below.

Signature Pages Not Provided in Appendix.

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Appendix F

Left Hand Creek TMDL Prioritized Projects (from LWOG 2005)

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Table 10. Best Management Practices applicable to the reclamation of abandoned mine lands in the Lefthand Creek watershed.			
Site Name	**Impacted Stream**	**Description**	**Best Management Practices**
Medium Priority Mine Sites			
Loder Smelter	Lefthand Creek	Small/medium waste rock and tailings pile	(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			(6) Stream Diversion
			(7) Chemical amendment (neutralization)
Slide Mine	Lefthand Creek	Very large tailings and waste rock pile; flow of water through and over piles	*Waste Rock BMPs*
			(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			Water BMPs
			(1) Diversion ditches
			(2) Aeration and settling ponds
			(3) Sulfate-reducing wetlands
			(4) Anoxic limestone drain
			(5) Chemical amendment (neutralization)
Castle Gulch	James Creek	Waste rock and tailings piles; adit flow	*Waste Rock BMPs*
			(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			Water BMPs
			(1) Diversion ditches
			(2) Aeration and settling ponds
			(3) Sulfate-reducing wetlands
			(4) Anoxic limestone drain
			(5) Chemical amendment (neutralization)

Table 10. Best Management Practices applicable to the reclamation of abandoned mine lands in the Lefthand Creek watershed.			
Site Name	**Impacted Stream**	**Description**	**Best Management Practices**
Evening Star Mine	Little James Creek	Small waste rock pile; deep open pit; occasional adit flow	*Waste Rock BMPs*
			(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			Water BMPs
			(1) Diversion ditches
			(2) Aeration and settling ponds
			(3) Sulfate-reducing wetlands
			(4) Anoxic limestone drain
			(5) Chemical amendment (neutralization)
Argo Mine	Little James Creek	Small/medium waste rock piles; many subsidence pits; large open stope (may be 200' deep); upwelling of spring with high metals concentrations	*Waste Rock BMPs*
			(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			(6) Stream Diversion
			(7) Chemical amendment (neutralization)
			Water BMPs
			(1) Diversion ditches
			(2) Aeration and settling ponds
			(3) Sulfate-reducing wetlands
			(4) Anoxic limestone drain
			(5) Chemical amendment (neutralization)

Table 10. Best Management Practices applicable to the reclamation of abandoned mine lands in the Lefthand Creek watershed.			
Site Name	**Impacted Stream**	**Description**	**Best Management Practices**
Low Priority Mine Sites			
Emmett Adit and Mine	Little James Creek	Very low flow from adit opening with very high metals concentrations; medium waste rock and tailings pile; large (~300'wide x ~100' deep) glory hole	*Waste Rock BMPs*
			(1) Diversion Ditches
			(2) Removal, consolidation, stabilization
			(3) Regrading
			(4) Capping
			(5) Vegetation
			(6) Chemical amendment (neutralization)
			Water BMPs
			(1)Diversion ditches
			(2)Aeration and settling ponds
			(3) Sulfate-reducing wetlands
			(4) Anoxic limestone drain
			(5) Chemical amendment (neutralization)
John Jay Mine	James Creek	Waste rock and adits (needs more characterization)	Further characterization and monitoring needed prior to BMP development
Indiana Gulch	Lefthand Creek	Stream that drains mine workings in town of Ward	Further characterization and monitoring needed prior to BMP development
Nugget Gulch	Lefthand Creek	Stream that drains mine workings downstream of Rowena	Further characterization and monitoring needed prior to BMP development
"Lee Hill Gulch"	Lefthand Creek	Unknown mining activity in area. Very high hardness in this stream.	Further characterization and monitoring needed prior to BMP development
Sixmile Creek	Lefthand Creek	No known mining activity. Can probably be dropped from consideration as a contaminant source.	Further characterization and monitoring needed prior to BMP development
Non-Mining Sites			
Carnage Canyon	Lefthand Creek	Heavy OHV usage; no metals from mining	

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Appendix G

Cost Estimates for BMPs

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BMP/Project	DESCRIPTION	COST PER UNIT	REPORT	AUTHOR	YEAR
Urban Stormwater BMPs					
Constructed Wetland Basin	Construction Costs	$21,368 + $0.89*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Constructed Wetland Channel	Construction Costs	$6,700 + $102.70*Design Flow Rate (cfs)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Extended Detention Basin (Water Quality Control Volume)	Construction Costs	$23,897 + $.89 * Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Extended Detention Basin (EURV)	Construction Costs	$26,196 + $0.55*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Hydrodynamic Separator	Construction Costs	$16,639 + $13,337* Design Flow Rate (cfs)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Inlet Inserts	Construction Costs	$393.32 + $1,967*Design Flow Rate (cfs)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Media Filter Vault	Construction Costs	$30,373 + $57,880*Design Flow Rate (cfs)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Porous Landscape Detention	Construction Costs	$10,729 + $9.93*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Retention (wet) Pond (Water Quality Control Volume)	Construction Costs	$23,082 + $0.71*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Retention (Wet) Pond (EURV)	Construction Costs	$27,884 + $0.46*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Sand Filter Basin	Construction Costs	$9,861 + $3.55*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Sand Filter Vault	Construction Costs	$27046 + $36.26*Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Sediment/Oil/Grease Separator	Construction Costs	$8,851+ $17,960* Design Flow Rate (cfs)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Vault with Capture Volume	Construction Costs	$16,616 + $19.49* Storage Volume ($ft^3$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Concrete Grid Pavers (Modular Blocks)	Construction Costs	$102.86 + $10.10* Surface Area ($ft^2$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Permeable Interlocking Concrete Pavers (Cobblestone Blocks)	Construction Costs	$7,257 + $14.23* Surface Area ($ft^2$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Porous Concrete Pavement	Construction Costs	$14,409 + $16.49* Surface Area ($ft^2$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Porous Gravel Pavement	Construction Costs	$7,258 + $6.87* Surface Area ($ft^2$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Reinforced Grass Pavement	Construction Costs	$13,236 + $11.82* Surface Area ($ft^2$)	BMP-REALCOST User's Manual and Documentation Version 1.21	Chris Olson, Larry Roesner, Ben Urbonas, and Ken McKenzie	2013
Revegetation	Unit costs for reclamation and reseeding	$1,100 per acre	Big Dry Creek Major Drainageway Play Alternative Analysis Report	Wright Water Engineers	2011
Channel-related Practices					
Routine Channel Maintenance		$1 per linear foot	Big Dry Creek Major Drainageway Play Alternative Analysis Report	Wright Water Engineers	2011

BMP/Project	DESCRIPTION	COST PER UNIT	REPORT	AUTHOR	YEAR
Channel and Riprap Restoration	Costs per length of restoration	$1.5 to million per mile	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Channel and Riprap Restoration	Basic stability monitoring	$10,000 to $15,000 per year	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Channel and Riprap Restoration	Chemical and biological monitoring	$40,000 to $50,000 per year	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Channel Improvements: Boulder Edging	From 12” to 36” high	$70 to $105 per linear foot	Coal Creek Master Drainage Plan	UDFCD and Boulder County, City of Louisville, Towns of Superior and Erie, and City and County of Broomfield	2013
Channel Improvements: Conc. Low Flow Channel		$46 per linear foot	Coal Creek Master Drainage Plan	UDFCD and Boulder County, City of Louisville, Towns of Superior and Erie, and City and County of Broomfield	2013
Channel Improvements: Grouted Boulders	12” to 48”	$151 to $233 per square yard	Coal Creek Master Drainage Plan	UDFCD and Boulder County, City of Louisville, Towns of Superior and Erie, and City and County of Broomfield	2013
Channel Improvements: Riprap	6” to 24”	$52 to $99 per cubic yard	Coal Creek Master Drainage Plan	UDFCD and Boulder County, City of Louisville, Towns of Superior and Erie, and City and County of Broomfield	2013
Stream stability structures	Targeted landuse: Stream	$125,000/structure	Wahoo Creek Watershed Water Quality Management Plan	JEO Consulting Group Inc	2013
Sanitary Sewer					
Sanitary Sewer System Observation Studies	MS4 System video camera inspections	$1,200 to $15,000	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Sanitary Sewer System Observation Studies	Exfiltration to infiltration Studies- Optical Probe Setup	$7,000 plus labor	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Wastewater Collection System Line Replacement		$100,000/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Wastewater Collection System Line Replacement		$250,000/biennium	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Wastewater Collection System Study		$50,000 /study	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Sanitary Sewer Inspection Program		$20,000/camera	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Non-structural Urban Practices					
Trash Removal	Education and trash pick-up	Varies greatly with jurisdiction size	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Smart Gardening Practices	Incentive Programs	$40,000 to $100,000 annually	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Street Sweeping	Range of costs to purchase a mechanical or a vacuum sweeper Operation and Maintenance Costs	$100,000 to $203,000 per sweeper $12 per curb mile	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013

BMP/Project	DESCRIPTION	COST PER UNIT	REPORT	AUTHOR	YEAR
Elimination of Groundwater Inflows	Retrofit sealing of pipe 8" to 48" Lateral Lining Spot Repairs	$35 to $633 $5000 $2,000 to $7,000	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
MS4 Cleaning	Drain Inlet Cleaning Conveyance Area Cleaning	$550 per Inlet annually $880 for use of vactor truck, dump truck and front loader per location	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Expand Street Sweeping Program		$280,000/Vacuum-camera truck	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Animal Waste Management Practices	Pet Waste Station	$50 to $950 per station	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Pet Waste Collection stations	Installation	$620/station	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Pet Waste Collection Stations	Maintenance	$85/station/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Pet Waste Awareness		$35,000 total	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Resident Waterfowl Relocation		$1,000/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Develop and Implement Feral Cat Management Program		$5,000/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Septic System/Onsite Sanitary Facility (OSSF)					
Septic System Education	Targeted mailers and follow-up as necessary	$2,500 to $15,000 for a 500 septic system jurisdiction	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Septic System Incentive Program	Includes administrative/processing time, $100 to $500 for pump outs, and 10% rebate for each pumping the owner conducts	$25,000 to $45,000 for a 500 septic system jurisdiction	San Diego River Watershed Comprehensive Load Reduction Plan - Phase II	City of San Diego/ Tetra Tech	2013
Septic System Inspections and Retrofits	Targeted landuse: Entire Watershed	$5,500	Wahoo Creek Watershed Water Quality Management Plan	JEO Consulting Group Inc	2013
OSSF Inventory and Database Development		$42,000/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
OSSF Inspector		$42,000/yr	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
OSSF Repair/ Replacement		$5,000-$10,000/system	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Education and Outreach					
Public Health Signage		$450 per sign	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Watershed Video	Low-tech video	$3,000-$5,000 one time	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Articles/Advertising	Newspaper articles and inexpensive advertising	$1,500 per year	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Interpretive Ecological Exhibits		$850 per sign	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Social Media		$8,300 per year	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Hold events along the creek		$5,000 per event	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014
Outreach to groups outside watershed who are interested in the creek		$3,300 per year	Lower Bear Creek Watershed Plan	Groundwork Denver and the Lower Bear Creek Steering Committee	2014

BMP/Project	DESCRIPTION	COST PER UNIT	REPORT	AUTHOR	YEAR
Displays at Local Events		$3,000 total	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Tributary and Roadway Signage		$3,600 total	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Water Quality in Classroom Kits		$8,000 total	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013
Agriculture Field Days		$1,000 total	Lampasas River Watershed Protection Plan	Lampasas River Watershed Partnership	2013

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Appendix G. 2015 EQIP Cost List

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
102	EQIP	Comprehensive Nutrient Management Plan	Non-Dairy Operation Less Than 300 AU with Land Application	Number	6922.99	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Non-Dairy Operation Less Than 300 AU with Land Application	Number	8307.58	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Dairy Operation Less Than 300 AU with Land Application	Number	8598.06	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Dairy Operation Less Than 300 AU with Land Application	Number	10317.67	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Non-Dairy Operation Greater Than or Equal to 300 AU and Less Than 700 AU with Land Application	Number	8805.69	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Non-Dairy Operation Greater Than or Equal to 300 AU and Less Than 700 AU with Land Application	Number	10566.83	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Dairy Operation Greater Than or Equal to 300 AU and Less Than 700 AU with Land Application	Number	9783.32	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Dairy Operation Greater Than or Equal to 300 AU and Less Than 700 AU with Land Application	Number	11739.98	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Non-Dairy Operation Greater Than or Equal to 700 AU with Land Application	Number	10528.86	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Non-Dairy Operation Greater Than or Equal to 700 AU with Land Application	Number	12634.63	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Dairy Operation Greater Than or Equal to 700 AU with Land Application	Number	10819.55	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Dairy Operation Greater Than or Equal to 700 AU with Land Application	Number	12983.46	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Livestock Operation Less Than 300 AU without Land Application	Number	6356.2	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Livestock Operation Less Than 300 AU without Land Application	Number	7627.44	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	Livestock Operation Greater Than 300 AU without Land Application	Number	7816.33	PR	100
102	EQIP	Comprehensive Nutrient Management Plan	HU-Livestock Operation Greater Than 300 AU without Land Application	Number	9379.59	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP Less Than or Equal to 100 Acres (Not part of a CNMP)	Number	1652.62	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP Less Than or Equal to 100 Acres (Not part of a CNMP)	Number	1983.15	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP 101 - 300 Acres (Not part of a CNMP)	Number	2203.5	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP 101 - 300 Acres (Not part of a CNMP)	Number	2644.2	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP Greater Than 300 Acres (Not part of a CNMP)	Number	2754.38	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP Greater Than 300 Acres (Not part of a CNMP)	Number	3305.25	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP Less Than or Equal to 100 Acres (Element of a CNMP)	Number	2754.38	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP Less Than or Equal to 100 Acres (Element of a CNMP)	Number	3305.25	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP 101 - 300 Acres (Element of a CNMP)	Number	3856.12	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP 101 - 300 Acres (Element of a CNMP)	Number	4627.35	PR	100
104	EQIP	Nutrient Management Plan	Nutrient Management CAP Greater Than 300 Acres (Element of a CNMP)	Number	4682.44	PR	100
104	EQIP	Nutrient Management Plan	HU-Nutrient Management CAP Greater Than 300 Acres (Element of a CNMP)	Number	5618.92	PR	100
106	EQIP	Forest Management Plan	FMP Less Than or Equal to 50 acres	Number	624.06	PR	100
106	EQIP	Forest Management Plan	HU-FMP Less Than or Equal to 50 acres	Number	748.87	PR	100
106	EQIP	Forest Management Plan	FMP 51 to 100 acres	Number	884.09	PR	100
106	EQIP	Forest Management Plan	HU-FMP 51 to 100 acres	Number	1060.9	PR	100
106	EQIP	Forest Management Plan	FMP 101 to 200 acres	Number	1352.13	PR	100
106	EQIP	Forest Management Plan	HU-FMP 101 to 200 acres	Number	1622.56	PR	100
106	EQIP	Forest Management Plan	FMP 201 to 400 acres	Number	2028.19	PR	100
106	EQIP	Forest Management Plan	HU-FMP 201 to 400 acres	Number	2433.83	PR	100
106	EQIP	Forest Management Plan	FMP 401 to 600 acres	Number	2860.27	PR	100
106	EQIP	Forest Management Plan	HU-FMP 401 to 600 acres	Number	3432.33	PR	100
106	EQIP	Forest Management Plan	FMP 601 to 1000 acres	Number	3692.35	PR	100
106	EQIP	Forest Management Plan	HU-FMP 601 to 1000 acres	Number	4430.83	PR	100
106	EQIP	Forest Management Plan	FMP Greater Than 1000 acres	Number	4420.42	PR	100
106	EQIP	Forest Management Plan	HU-FMP Greater Than 1000 acres	Number	5304.51	PR	100
108	EQIP	Feed Management Plan	Feed Management Plan Less Than 100 Acres	Number	883.92	PR	100
108	EQIP	Feed Management Plan	HU-Feed Management Plan Less Than 100 Acres	Number	1060.7	PR	100
108	EQIP	Feed Management Plan	Feed Management Plan 100 to Less Than 1500 Acres	Number	2320.29	PR	100
108	EQIP	Feed Management Plan	HU-Feed Management Plan 100 to Less Than 1500 Acres	Number	2784.35	PR	100
108	EQIP	Feed Management Plan	Feed Management Plan 1500 - 5000 Acres	Number	3867.15	PR	100
108	EQIP	Feed Management Plan	HU-Feed Management Plan 1500 - 5000 Acres	Number	4640.58	PR	100
108	EQIP	Feed Management Plan	Feed Management Plan Greater Than 5000 Acres	Number	4972.05	PR	100
108	EQIP	Feed Management Plan	HU-Feed Management Plan Greater Than 5000 Acres	Number	5966.46	PR	100
110	EQIP	Grazing Management Plan	Grazing Management Plan Less Than 100 Acres	Number	883.92	PR	100
110	EQIP	Grazing Management Plan	HU-Grazing Management Plan Less Than 100 Acres	Number	1060.7	PR	100
110	EQIP	Grazing Management Plan	Grazing Management Plan 100 to Less Than 1500 Acres	Number	2320.29	PR	100
110	EQIP	Grazing Management Plan	HU-Grazing Management Plan 100 to Less Than 1500 Acres	Number	2784.35	PR	100

Appendix G. 2015 EQIP Cost List

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
110	EQIP	Grazing Management Plan	Grazing Management Plan 1500 - 5000 Acres	Number	3867.15	PR	100
110	EQIP	Grazing Management Plan	HU-Grazing Management Plan 1500 - 5000 Acres	Number	4640.58	PR	100
110	EQIP	Grazing Management Plan	Grazing Management Plan Greater Than 5000 Acres	Number	4972.05	PR	100
110	EQIP	Grazing Management Plan	HU-Grazing Management Plan Greater Than 5000 Acres	Number	5966.46	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan Less Than or Equal to 20 Acres	Number	260.02	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan Less Than or Equal to 20 Acres	Number	312.03	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan 21-100 Acres	Number	416.04	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan 21-100 Acres	Number	499.25	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan 101-250 Acres	Number	624.06	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan 101-250 Acres	Number	748.87	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan 251-500 Acres	Number	832.08	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan 251-500 Acres	Number	998.5	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan 501-1000 Acres	Number	1040.1	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan 501-1000 Acres	Number	1248.12	PR	100
112	EQIP	Prescribed Burning Plan	Prescribed Burning Plan Greater Than 1000 Acres	Number	1248.12	PR	100
112	EQIP	Prescribed Burning Plan	HU-Prescribed Burning Plan Greater Than 1000 Acres	Number	1497.74	PR	100
114	EQIP	Integrated Pest Management Plan	IPM Management CAP Small-Specialty Less Than 50 Acres	Number	1377.19	PR	100
114	EQIP	Integrated Pest Management Plan	HU-IPM Management CAP Small-Specialty Less Than 50 Acres	Number	1652.62	PR	100
114	EQIP	Integrated Pest Management Plan	IPM Management CAP Medium 51 - 250 Acres	Number	1762.8	PR	100
114	EQIP	Integrated Pest Management Plan	HU-IPM Management CAP Medium 51 - 250 Acres	Number	2115.36	PR	100
114	EQIP	Integrated Pest Management Plan	IPM Management CAP Large - Greater Than 250 Acres	Number	2754.38	PR	100
114	EQIP	Integrated Pest Management Plan	HU-IPM Management CAP Large - Greater Than 250 Acres	Number	3305.25	PR	100
118	EQIP	Irrigation Water Management Plan	Irrigation Water Management Conservation Activity Plan CAP	Number	2307.38	PR	100
118	EQIP	Irrigation Water Management Plan	HU-Irrigation Water Management Conservation Activity Plan CAP	Number	2768.85	PR	100
130	EQIP	Drainage Water Management Plan	DWMP - Tile Map Available	Number	1940.07	PR	100
130	EQIP	Drainage Water Management Plan	HU-DWMP - Tile Map Available	Number	2328.08	PR	100
130	EQIP	Drainage Water Management Plan	DWMP - No Tile Map Available	Number	2355.63	PR	100
130	EQIP	Drainage Water Management Plan	HU-DWMP - No Tile Map Available	Number	2826.76	PR	100
142	EQIP	Fish and Wildlife Habitat Management Plan	Fish and Wildlife Habitat Management CAP	Number	2365.33	PR	100
142	EQIP	Fish and Wildlife Habitat Management Plan	HU-Fish and Wildlife Habitat Management CAP	Number	2838.4	PR	100
146	EQIP	Pollinator Habitat Enhancement Plan	Pollinator Habitat Enhancement Plan CAP	Number	2365.33	PR	100
146	EQIP	Pollinator Habitat Enhancement Plan	HU-Pollinator Habitat Enhancement Plan CAP	Number	2838.4	PR	100
146	EQIP	Pollinator Habitat Enhancement Plan	Pollinator Habitat Enhancement Plan CAP - No Local TSP	Number	3435.37	PR	100
146	EQIP	Pollinator Habitat Enhancement Plan	HU-Pollinator Habitat Enhancement Plan CAP - No Local TSP	Number	4122.44	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	IPM Herbicide Resistance Weed Management CAP Small-Specialty Less Than or Equal to 50 Acres	Number	1652.62	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	HU-IPM Herbicide Resistance Weed Management CAP Small-Specialty Less Than or Equal to 50 Acres	Number	1983.15	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	IPM Herbicide Resistance Weed Management CAP Medium 51 - 250 Acres	Number	2148.41	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	HU-IPM Herbicide Resistance Weed Management CAP Medium 51 - 250 Acres	Number	2578.09	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	IPM Herbicide Resistance Weed Management CAP Large - Greater Than 250 Acres	Number	3305.25	PR	100
154	EQIP	Integrated Pest Management Herbicide Resistance Weed Conservation Plan	HU-IPM Herbicide Resistance Weed Management CAP Large - Greater Than 250 Acres	Number	3966.3	PR	100
309	EQIP	Agrichemical Handling Facility	Enclosed building for storage and handling	SqFt	24.64	PR	100
309	EQIP	Agrichemical Handling Facility	HU-Enclosed building for storage and handling	SqFt	29.57	PR	100
309	EQIP	Agrichemical Handling Facility	Agrichemical Handling Pad under a Roof	SqFt	20.49	PR	100
309	EQIP	Agrichemical Handling Facility	HU-Agrichemical Handling Pad under a Roof	SqFt	24.59	PR	100
309	EQIP	Agrichemical Handling Facility	Concrete Pad For Mixing and Loading	SqFt	9.96	PR	100
309	EQIP	Agrichemical Handling Facility	HU-Concrete Pad For Mixing and Loading	SqFt	11.95	PR	100
309	EQIP	Agrichemical Handling Facility	Portable Poly Pad For Handling < 65 SF	SqFt	16.06	PR	100
309	EQIP	Agrichemical Handling Facility	HU-Portable Poly Pad For Handling < 65 SF	SqFt	19.27	PR	100
313	EQIP	Waste Storage Facility	Earthen Storage Facility less than 50K ft3 Storage	CuFt	.23	PR	100
313	EQIP	Waste Storage Facility	HU-Earthen Storage Facility less than 50K ft3 Storage	CuFt	.27	PR	100
313	EQIP	Waste Storage Facility	Earthen Storage Facility greater than 50K ft3 Storage	CuFt	.18	PR	100
313	EQIP	Waste Storage Facility	HU-Earthen Storage Facility greater than 50K ft3 Storage	CuFt	.21	PR	100
313	EQIP	Waste Storage Facility	Dry stack, earthen floor, wood wall	SqFt	1.31	PR	100
313	EQIP	Waste Storage Facility	HU-Dry stack, earthen floor, wood wall	SqFt	1.57	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
313	EQIP	Waste Storage Facility	Dry Stack, concrete floor, wood wall, existing columns	SqFt	2.8	PR	100
313	EQIP	Waste Storage Facility	HU-Dry Stack, concrete floor, wood wall, existing columns	SqFt	3.36	PR	100
313	EQIP	Waste Storage Facility	Tank, less than 5K cu.ft. of waste stored	CuFt	4.09	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, less than 5K cu.ft. of waste stored	CuFt	4.9	PR	100
313	EQIP	Waste Storage Facility	Tank, 5Kcu.ft.to 15Kcu.ft. of waste stored	CuFt	1.43	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, 5Kcu.ft.to 15Kcu.ft. of waste stored	CuFt	1.71	PR	100
313	EQIP	Waste Storage Facility	Tank, 15Kcu.ft.to 25Kcu.ft. of waste stored	CuFt	1.08	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, 15Kcu.ft.to 25Kcu.ft. of waste stored	CuFt	1.29	PR	100
313	EQIP	Waste Storage Facility	Tank, 25K to 50K cu.ft. of waste stored	CuFt	1.08	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, 25K to 50K cu.ft. of waste stored	CuFt	1.3	PR	100
313	EQIP	Waste Storage Facility	Tank, 50Kto 75K cu.ft. of waste stored	CuFt	.85	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, 50Kto 75K cu.ft. of waste stored	CuFt	1.03	PR	100
313	EQIP	Waste Storage Facility	Tank 75Kto 110K cu.ft. of waste stored	CuFt	.75	PR	100
313	EQIP	Waste Storage Facility	HU-Tank 75Kto 110K cu.ft. of waste stored	CuFt	.9	PR	100
313	EQIP	Waste Storage Facility	Tank, 110K cu.ft. of waste stored or greater	CuFt	.69	PR	100
313	EQIP	Waste Storage Facility	HU-Tank, 110K cu.ft. of waste stored or greater	CuFt	.82	PR	100
314	EQIP	Brush Management	Mechanical, Hand tools	Ac	125	PR	100
314	EQIP	Brush Management	HU-Mechanical, Hand tools	Ac	150	PR	100
314	EQIP	Brush Management	Mechanical, light Infestation	Ac	117.34	PR	100
314	EQIP	Brush Management	HU-Mechanical, light Infestation	Ac	140.81	PR	100
314	EQIP	Brush Management	Mechanical, medium Infestation	Ac	149.07	PR	100
314	EQIP	Brush Management	HU-Mechanical, medium Infestation	Ac	178.88	PR	100
314	EQIP	Brush Management	Mechanical, heavy Infestation	Ac	194.29	PR	100
314	EQIP	Brush Management	HU-Mechanical, heavy Infestation	Ac	233.15	PR	100
314	EQIP	Brush Management	Mechanical & Chemical	Ac	170.43	PR	100
314	EQIP	Brush Management	HU-Mechanical & Chemical	Ac	204.51	PR	100
314	EQIP	Brush Management	Mechanical & Chemical, chip debris	Ac	257.21	PR	100
314	EQIP	Brush Management	HU-Mechanical & Chemical, chip debris	Ac	308.66	PR	100
314	EQIP	Brush Management	Chemical, Individual Plant Treatment	Ac	67.72	PR	100
314	EQIP	Brush Management	HU-Chemical, Individual Plant Treatment	Ac	81.27	PR	100
314	EQIP	Brush Management	Chemical - Ground Applied	Ac	46.85	PR	100
314	EQIP	Brush Management	HU-Chemical - Ground Applied	Ac	56.22	PR	100
314	EQIP	Brush Management	Chemical, Aerial Applied	Ac	28.93	PR	100
314	EQIP	Brush Management	HU-Chemical, Aerial Applied	Ac	34.72	PR	100
314	EQIP	Brush Management	Mechanical - bush hog	Ac	29.22	PR	100
314	EQIP	Brush Management	HU-Mechanical - bush hog	Ac	35.07	PR	100
314	EQIP	Brush Management	Mechanical - heavy disking	Ac	12.04	PR	100
314	EQIP	Brush Management	HU-Mechanical - heavy disking	Ac	14.44	PR	100
314	EQIP	Brush Management	Mechanical Chem, Cut Stump	Ac	264.43	PR	100
314	EQIP	Brush Management	HU-Mechanical Chem, Cut Stump	Ac	317.31	PR	100
314	EQIP	Brush Management	Grapevine Control	Ac	61.8	PR	100
314	EQIP	Brush Management	HU-Grapevine Control	Ac	74.16	PR	100
314	EQIP	Brush Management	Cut Stump, 2 year followup spray	Ac	344.69	PR	100
314	EQIP	Brush Management	HU-Cut Stump, 2 year followup spray	Ac	413.63	PR	100
314	EQIP	Brush Management	Spray Treatment-3yr Completion	Ac	358.59	PR	100
314	EQIP	Brush Management	HU-Spray Treatment-3yr Completion	Ac	430.3	PR	100
314	EQIP	Brush Management	Hack and Squirt	Ac	171.29	PR	100
314	EQIP	Brush Management	HU-Hack and Squirt	Ac	205.55	PR	100
315	EQIP	Herbaceous Weed Control	Hand Removal	Ac	51.06	PR	100
315	EQIP	Herbaceous Weed Control	HU-Hand Removal	Ac	61.27	PR	100
315	EQIP	Herbaceous Weed Control	Hand removal and chemical	Ac	106.3	PR	100
315	EQIP	Herbaceous Weed Control	HU-Hand removal and chemical	Ac	127.56	PR	100
315	EQIP	Herbaceous Weed Control	Mechanical	Ac	34.73	PR	100
315	EQIP	Herbaceous Weed Control	HU-Mechanical	Ac	41.68	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
315	EQIP	Herbaceous Weed Control	Mechanical and Chemical	Ac	77.37	PR	100
315	EQIP	Herbaceous Weed Control	HU-Mechanical and Chemical	Ac	92.84	PR	100
315	EQIP	Herbaceous Weed Control	Chemical, Spot	Ac	44.62	PR	100
315	EQIP	Herbaceous Weed Control	HU-Chemical, Spot	Ac	53.55	PR	100
315	EQIP	Herbaceous Weed Control	Chemical, Ground	Ac	42.15	PR	100
315	EQIP	Herbaceous Weed Control	HU-Chemical, Ground	Ac	50.58	PR	100
315	EQIP	Herbaceous Weed Control	Chemical, Aerial	Ac	60.82	PR	100
315	EQIP	Herbaceous Weed Control	HU-Chemical, Aerial	Ac	72.99	PR	100
316	EQIP	Animal Mortality Facility	Incineration, < 400 lbs. Capacity	Ea	8214.15	PR	100
316	EQIP	Animal Mortality Facility	HU-Incineration, < 400 lbs. Capacity	Ea	9856.98	PR	100
316	EQIP	Animal Mortality Facility	Incineration 400 - 600 lbs. Capacity	Ea	9545.46	PR	100
316	EQIP	Animal Mortality Facility	HU-Incineration 400 - 600 lbs. Capacity	Ea	11454.55	PR	100
316	EQIP	Animal Mortality Facility	Incineration > 600 lbs. Capacity	Ea	10929.71	PR	100
316	EQIP	Animal Mortality Facility	HU-Incineration > 600 lbs. Capacity	Ea	13115.65	PR	100
316	EQIP	Animal Mortality Facility	Freezer	CuFt	51.59	PR	100
316	EQIP	Animal Mortality Facility	HU-Freezer	CuFt	61.91	PR	100
316	EQIP	Animal Mortality Facility	Gasifier	Ea	51462.65	PR	100
316	EQIP	Animal Mortality Facility	HU-Gasifier	Ea	61755.18	PR	100
316	EQIP	Animal Mortality Facility	Composter with Storage, Nursery	Lb/Day	104.97	PR	100
316	EQIP	Animal Mortality Facility	HU-Composter with Storage, Nursery	Lb/Day	125.96	PR	100
316	EQIP	Animal Mortality Facility	Composter with Storage, Finisher	Lb/Day	290.21	PR	100
316	EQIP	Animal Mortality Facility	HU-Composter with Storage, Finisher	Lb/Day	348.25	PR	100
316	EQIP	Animal Mortality Facility	Composter with Storage, Sow	Lb/Day	375.56	PR	100
316	EQIP	Animal Mortality Facility	HU-Composter with Storage, Sow	Lb/Day	450.68	PR	100
316	EQIP	Animal Mortality Facility	Composter with Storage, Poultry	Lb/Day	64.4	PR	100
316	EQIP	Animal Mortality Facility	HU-Composter with Storage, Poultry	Lb/Day	77.28	PR	100
316	EQIP	Animal Mortality Facility	Composter with Storage, Turkey	Lb/Day	135.53	PR	100
316	EQIP	Animal Mortality Facility	HU-Composter with Storage, Turkey	Lb/Day	162.64	PR	100
319	EQIP	On-Farm Secondary Containment Facility	Concrete or Masonry Containment Wall	SqFt	9.34	PR	100
319	EQIP	On-Farm Secondary Containment Facility	HU-Concrete or Masonry Containment Wall	SqFt	11.21	PR	100
319	EQIP	On-Farm Secondary Containment Facility	Double Wall Tank	Gal	.8	PR	100
319	EQIP	On-Farm Secondary Containment Facility	HU-Double Wall Tank	Gal	.96	PR	100
327	EQIP	Conservation Cover	Introduced Species	Ac	155.21	PR	100
327	EQIP	Conservation Cover	HU-Introduced Species	Ac	186.25	PR	100
327	EQIP	Conservation Cover	Native Species	Ac	228.46	PR	100
327	EQIP	Conservation Cover	HU-Native Species	Ac	274.15	PR	100
327	EQIP	Conservation Cover	Native Shrubs, NWSGs and Forbs	Ac	399.57	PR	100
327	EQIP	Conservation Cover	HU-Native Shrubs, NWSGs and Forbs	Ac	479.48	PR	100
327	EQIP	Conservation Cover	Conventional Pollinator Habitat single herb. applic. site prep.	Ac	283.73	PR	100
327	EQIP	Conservation Cover	HU-Conventional Pollinator Habitat single herb. applic. site prep.	Ac	340.48	PR	100
327	EQIP	Conservation Cover	Conventional Pollinator Habitat twice applied herb. site prep.	Ac	299.9	PR	100
327	EQIP	Conservation Cover	HU-Conventional Pollinator Habitat twice applied herb. site prep.	Ac	359.88	PR	100
327	EQIP	Conservation Cover	Renovate NWSG Stands	Ac	340.81	PR	100
327	EQIP	Conservation Cover	HU-Renovate NWSG Stands	Ac	408.97	PR	100
328	EQIP	Conservation Crop Rotation	Improve rotation diversity	Ac	11.17	PR	100
328	EQIP	Conservation Crop Rotation	HU-Improve rotation diversity	Ac	13.41	PR	100
328	EQIP	Conservation Crop Rotation	Row crop to perennial	Ac	193.46	PR	100
328	EQIP	Conservation Crop Rotation	HU-Row crop to perennial	Ac	196.26	PR	100
328	EQIP	Conservation Crop Rotation	Continuous Live Roots	Ac	46.55	PR	100
328	EQIP	Conservation Crop Rotation	HU-Continuous Live Roots	Ac	55.86	PR	100
329	EQIP	Residue and Tillage Management - No-Till	No-Till/Strip-Till	Ac	14.58	PR	100
329	EQIP	Residue and Tillage Management - No-Till	HU-No-Till/Strip-Till	Ac	17.5	PR	100
332	EQIP	Contour Buffer Strips	Native grass buffer strip	Ac	294.73	PR	100
332	EQIP	Contour Buffer Strips	HU-Native grass buffer strip	Ac	311.7	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
332	EQIP	Contour Buffer Strips	Introduced grass strip	Ac	266.07	PR	100
332	EQIP	Contour Buffer Strips	HU-Introduced grass strip	Ac	277.31	PR	100
332	EQIP	Contour Buffer Strips	Pollinator habitat strip	Ac	415.34	PR	100
332	EQIP	Contour Buffer Strips	HU-Pollinator habitat strip	Ac	456.43	PR	100
338	EQIP	Prescribed Burning	Understory Burn	Ac	42.58	PR	100
338	EQIP	Prescribed Burning	HU-Understory Burn	Ac	51.09	PR	100
338	EQIP	Prescribed Burning	Site Preparation	Ac	41.49	PR	100
338	EQIP	Prescribed Burning	HU-Site Preparation	Ac	49.78	PR	100
338	EQIP	Prescribed Burning	Native Grass Burn	Ac	50.6	PR	100
338	EQIP	Prescribed Burning	HU-Native Grass Burn	Ac	60.72	PR	100
340	EQIP	Cover Crop	Soil Protection N Scavenging Cover	Ac	72.23	PR	100
340	EQIP	Cover Crop	HU-Soil Protection N Scavenging Cover	Ac	86.68	PR	100
340	EQIP	Cover Crop	Nitrogen Fixing Cover	Ac	66.21	PR	100
340	EQIP	Cover Crop	HU-Nitrogen Fixing Cover	Ac	79.45	PR	100
340	EQIP	Cover Crop	Soil Health Cover	Ac	91.61	PR	100
340	EQIP	Cover Crop	HU-Soil Health Cover	Ac	109.93	PR	100
340	EQIP	Cover Crop	Orchard/Vineyard Annual Cover Crop	Ac	56.06	PR	100
340	EQIP	Cover Crop	HU-Orchard/Vineyard Annual Cover Crop	Ac	67.28	PR	100
342	EQIP	Critical Area Planting	Grass/legume mix-normal tillage	Ac	411.09	PR	100
342	EQIP	Critical Area Planting	HU-Grass/legume mix-normal tillage	Ac	493.31	PR	100
342	EQIP	Critical Area Planting	Native seeding - normal tillage	Ac	372.15	PR	100
342	EQIP	Critical Area Planting	HU-Native seeding - normal tillage	Ac	446.58	PR	100
342	EQIP	Critical Area Planting	Grass/legume mix-moderate grading	Ac	880.92	PR	100
342	EQIP	Critical Area Planting	HU-Grass/legume mix-moderate grading	Ac	1057.1	PR	100
342	EQIP	Critical Area Planting	Native seeding-moderate grading	Ac	841.98	PR	100
342	EQIP	Critical Area Planting	HU-Native seeding-moderate grading	Ac	1010.38	PR	100
342	EQIP	Critical Area Planting	Grass/legume mix-heavy grading	Ac	1291.81	PR	100
342	EQIP	Critical Area Planting	HU-Grass/legume mix-heavy grading	Ac	1550.18	PR	100
342	EQIP	Critical Area Planting	Native seeding-heavy grading	Ac	1252.88	PR	100
342	EQIP	Critical Area Planting	HU-Native seeding-heavy grading	Ac	1503.45	PR	100
342	EQIP	Critical Area Planting	Hydroseeding	Ac	650.41	PR	100
342	EQIP	Critical Area Planting	HU-Hydroseeding	Ac	780.49	PR	100
342	EQIP	Critical Area Planting	Hydroseeding with Grading	Ac	1316.14	PR	100
342	EQIP	Critical Area Planting	HU-Hydroseeding with Grading	Ac	1579.36	PR	100
342	EQIP	Critical Area Planting	Bermudagrass	Ac	368.32	PR	100
342	EQIP	Critical Area Planting	HU-Bermudagrass	Ac	441.98	PR	100
342	EQIP	Critical Area Planting	Streambank Vegetation	SqFt	.21	PR	100
342	EQIP	Critical Area Planting	HU-Streambank Vegetation	SqFt	.25	PR	100
351	EQIP	Water Well Decommissioning	Drilled well	Ea	2650.51	PR	100
351	EQIP	Water Well Decommissioning	HU-Drilled well	Ea	3180.62	PR	100
355	EQIP	Well Water Testing	Basic Water Test	Ea	37.08	PR	100
355	EQIP	Well Water Testing	HU-Basic Water Test	Ea	44.5	PR	100
360	EQIP	Waste Facility Closure	Liquid Waste Impoundment Closure with 95% Liquids and 5% Solids	CuFt	.14	PR	100
360	EQIP	Waste Facility Closure	HU-Liquid Waste Impoundment Closure with 95% Liquids and 5% Solids	CuFt	.17	PR	100
360	EQIP	Waste Facility Closure	Liquid Waste Impoundment Closure with 50% Liquids and 50% Solids	CuFt	.21	PR	100
360	EQIP	Waste Facility Closure	HU-Liquid Waste Impoundment Closure with 50% Liquids and 50% Solids	CuFt	.25	PR	100
362	EQIP	Diversion	Diversion	LnFt	1.69	PR	100
362	EQIP	Diversion	HU-Diversion	LnFt	2.03	PR	100
367	EQIP	Roofs and Covers	Post Frame Roof, less than 30ft wide	SqFt	10.84	PR	100
367	EQIP	Roofs and Covers	HU-Post Frame Roof, less than 30ft wide	SqFt	13.01	PR	100
367	EQIP	Roofs and Covers	Post Frame Roof, 30-60ft wide	SqFt	4.13	PR	100
367	EQIP	Roofs and Covers	HU-Post Frame Roof, 30-60ft wide	SqFt	4.95	PR	100
367	EQIP	Roofs and Covers	Flexible Membrane Cover with Flare	SqFt	1.68	PR	100
367	EQIP	Roofs and Covers	HU-Flexible Membrane Cover with Flare	SqFt	2.02	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
380	EQIP	Windbreak/Shelterbelt Establishment	1 row windbreak, shrubs, hand planted	Ft	.41	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-1 row windbreak, shrubs, hand planted	Ft	.49	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	1 row windbreak, trees, hand planted	Ft	.2	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-1 row windbreak, trees, hand planted	Ft	.24	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	2-row windbreak, shrubs, machine planted	Ft	.4	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-2-row windbreak, shrubs, machine planted	Ft	.48	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	2-row windbreak, trees, machine planted, no tubes	Ft	.49	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-2-row windbreak, trees, machine planted, no tubes	Ft	.59	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	3 or more row windbreak, shrub, machine planted	Ft	.92	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-3 or more row windbreak, shrub, machine planted	Ft	1.1	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	3 or more tree rows machine planted windbreak, no tubes	Ft	.49	PR	100
380	EQIP	Windbreak/Shelterbelt Establishment	HU-3 or more tree rows machine planted windbreak, no tubes	Ft	.59	PR	100
381	EQIP	Silvopasture	Commercial thinning, establish native grasses	Ac	538.55	PR	100
381	EQIP	Silvopasture	HU-Commercial thinning, establish native grasses	Ac	646.26	PR	100
381	EQIP	Silvopasture	Commercial thinning, establish introduced grasses	Ac	410.05	PR	100
381	EQIP	Silvopasture	HU-Commercial thinning, establish introduced grasses	Ac	492.06	PR	100
381	EQIP	Silvopasture	Non-commercial thinning, establish native grasses	Ac	652.04	PR	100
381	EQIP	Silvopasture	HU-Non-commercial thinning, establish native grasses	Ac	782.44	PR	100
381	EQIP	Silvopasture	Non-commercial thinning, establish introduced grasses	Ac	523.54	PR	100
381	EQIP	Silvopasture	HU-Non-commercial thinning, establish introduced grasses	Ac	628.25	PR	100
381	EQIP	Silvopasture	Establish hardwood trees and native grasses in an abandoned field	Ac	974.66	PR	100
381	EQIP	Silvopasture	HU-Establish hardwood trees and native grasses in an abandoned field	Ac	1169.6	PR	100
381	EQIP	Silvopasture	Establish conifer trees, introduced grasses and legumes in an abandoned field	Ac	459.17	PR	100
381	EQIP	Silvopasture	HU-Establish conifer trees, introduced grasses and legumes in an abandoned field	Ac	551	PR	100
381	EQIP	Silvopasture	Establish hardwood trees and native grasses in an open field	Ac	917.92	PR	100
381	EQIP	Silvopasture	HU-Establish hardwood trees and native grasses in an open field	Ac	1101.5	PR	100
381	EQIP	Silvopasture	Establish conifer trees, introduced grasses and legumes in an open field	Ac	402.42	PR	100
381	EQIP	Silvopasture	HU-Establish conifer trees, introduced grasses and legumes in an open field	Ac	482.91	PR	100
381	EQIP	Silvopasture	Establish hardwood trees in an existing pasture with adequate forage	Ac	458.09	PR	100
381	EQIP	Silvopasture	HU-Establish hardwood trees in an existing pasture with adequate forage	Ac	549.71	PR	100
381	EQIP	Silvopasture	Establish conifer trees in an existing pasture with adequate forage	Ac	70.56	PR	100
381	EQIP	Silvopasture	HU-Establish conifer trees in an existing pasture with adequate forage	Ac	84.67	PR	100
382	EQIP	Fence	Exclusion, electric	Ft	1.83	PR	100
382	EQIP	Fence	HU-Exclusion, electric	Ft	2.19	PR	100
382	EQIP	Fence	Exclusion, electric, mountain site	Ft	2.28	PR	100
382	EQIP	Fence	HU-Exclusion, electric, mountain site	Ft	2.74	PR	100
382	EQIP	Fence	Exclusion, barbed wire	Ft	1.95	PR	100
382	EQIP	Fence	HU-Exclusion, barbed wire	Ft	2.34	PR	100
382	EQIP	Fence	Interior	Ft	1.47	PR	100
382	EQIP	Fence	HU-Interior	Ft	1.76	PR	100
382	EQIP	Fence	Interior, mountain site	Ft	1.74	PR	100
382	EQIP	Fence	HU-Interior, mountain site	Ft	2.09	PR	100
382	EQIP	Fence	Woven wire	Ft	2.36	PR	100
382	EQIP	Fence	HU-Woven wire	Ft	2.83	PR	100
382	EQIP	Fence	Polywire, no charger	Ft	.17	PR	100
382	EQIP	Fence	HU-Polywire, no charger	Ft	.21	PR	100
382	EQIP	Fence	Polywire, with charger	Ft	.36	PR	100
382	EQIP	Fence	HU-Polywire, with charger	Ft	.43	PR	100
382	EQIP	Fence	Confinement	Ft	4.04	PR	100
382	EQIP	Fence	HU-Confinement	Ft	4.85	PR	100
382	EQIP	Fence	Safety	Ft	4.86	PR	100
382	EQIP	Fence	HU-Safety	Ft	5.84	PR	100
386	EQIP	Field Border	Field Border, native species, forgone income included	Ac	409.4	PR	100
386	EQIP	Field Border	HU-Field Border, native species, forgone income included	Ac	446.45	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
386	EQIP	Field Border	Field Border, introduced species, forgone income included	Ac	309.14	PR	100
386	EQIP	Field Border	HU-Field Border, introduced species, forgone income included	Ac	326.14	PR	100
386	EQIP	Field Border	Field Border, pollinator species, forgone income included	Ac	437.52	PR	100
386	EQIP	Field Border	HU-Field Border, pollinator species, forgone income included	Ac	480.2	PR	100
390	EQIP	Riparian Herbaceous Cover	Warm Season Grass with Forbs	Ac	470.83	PR	100
390	EQIP	Riparian Herbaceous Cover	HU-Warm Season Grass with Forbs	Ac	564.99	PR	100
390	EQIP	Riparian Herbaceous Cover	Cool Season Grasses with Forbs	Ac	508.33	PR	100
390	EQIP	Riparian Herbaceous Cover	HU-Cool Season Grasses with Forbs	Ac	610	PR	100
390	EQIP	Riparian Herbaceous Cover	Pollinator Habitat	Ac	1139.86	PR	100
390	EQIP	Riparian Herbaceous Cover	HU-Pollinator Habitat	Ac	1367.84	PR	100
391	EQIP	Riparian Forest Buffer	Bare-root, hand planted, conifers, hrdwds, shrubs	Ac	567.05	PR	100
391	EQIP	Riparian Forest Buffer	HU-Bare-root, hand planted, conifers, hrdwds, shrubs	Ac	632.71	PR	100
391	EQIP	Riparian Forest Buffer	Bare-root, machine planted, conifers, hrdwds, shrubs	Ac	609.74	PR	100
391	EQIP	Riparian Forest Buffer	HU-Bare-root, machine planted, conifers, hrdwds, shrubs	Ac	683.95	PR	100
391	EQIP	Riparian Forest Buffer	Bare root shrubs, 300 stems per acre, no tubes	Ac	407.92	PR	100
391	EQIP	Riparian Forest Buffer	HU-Bare root shrubs, 300 stems per acre, no tubes	Ac	441.76	PR	100
391	EQIP	Riparian Forest Buffer	Shrub Planting, 871 stems per acre, no tubes	Ac	695.28	PR	100
391	EQIP	Riparian Forest Buffer	HU-Shrub Planting, 871 stems per acre, no tubes	Ac	786.59	PR	100
391	EQIP	Riparian Forest Buffer	Bare Root Hardwoods with tubes, 300 trees per acre	Ac	1331.18	PR	100
391	EQIP	Riparian Forest Buffer	HU-Bare Root Hardwoods with tubes, 300 trees per acre	Ac	1549.67	PR	100
393	EQIP	Filter Strip	Filter Strip, Native species: Forgone Income Included	Ac	320.88	PR	100
393	EQIP	Filter Strip	HU-Filter Strip, Native species: Forgone Income Included	Ac	340.22	PR	100
393	EQIP	Filter Strip	Filter Strip, Introduced species: Forgone Income Included	Ac	333.6	PR	100
393	EQIP	Filter Strip	HU-Filter Strip, Introduced species: Forgone Income Included	Ac	355.49	PR	100
393	EQIP	Filter Strip	Filter Strip, Native Species w/ Land Shaping: Forgone Income Included	Ac	453.46	PR	100
393	EQIP	Filter Strip	HU-Filter Strip, Native Species w/ Land Shaping: Forgone Income Included	Ac	499.32	PR	100
393	EQIP	Filter Strip	Filter Strip, Introduced Species w/ Land Shaping: Forgone Income Included	Ac	461.45	PR	100
393	EQIP	Filter Strip	HU-Filter Strip, Introduced Species w/ Land Shaping: Forgone Income Included	Ac	508.91	PR	100
393	EQIP	Filter Strip	Filter Strip, Native species	Ac	96.74	PR	100
393	EQIP	Filter Strip	HU-Filter Strip, Native species	Ac	116.08	PR	100
394	EQIP	Firebreak	FireBreak-Disked	Ft	.07	PR	100
394	EQIP	Firebreak	HU-FireBreak-Disked	Ft	.09	PR	100
394	EQIP	Firebreak	Constructed - Medium equipment, flat-medium slopes	Ft	.34	PR	100
394	EQIP	Firebreak	HU-Constructed - Medium equipment, flat-medium slopes	Ft	.41	PR	100
394	EQIP	Firebreak	Constructed - Medium equipment, steep slopes	Ft	.99	PR	100
394	EQIP	Firebreak	HU-Constructed - Medium equipment, steep slopes	Ft	1.18	PR	100
394	EQIP	Firebreak	Constructed - Wide, bladed or disked firebreak	Ft	1.83	PR	100
394	EQIP	Firebreak	HU-Constructed - Wide, bladed or disked firebreak	Ft	2.2	PR	100
394	EQIP	Firebreak	FireBreak-Dozer-Fire Plow	Ft	.2	PR	100
394	EQIP	Firebreak	HU-FireBreak-Dozer-Fire Plow	Ft	.24	PR	100
395	EQIP	Stream Habitat Improvement and Management	Instream wood placement	Ac	12229.91	PR	100
395	EQIP	Stream Habitat Improvement and Management	HU-Instream wood placement	Ac	14675.89	PR	100
395	EQIP	Stream Habitat Improvement and Management	Instream rock placement	Ac	12233.68	PR	100
395	EQIP	Stream Habitat Improvement and Management	HU-Instream rock placement	Ac	14680.42	PR	100
395	EQIP	Stream Habitat Improvement and Management	Rock and wood structures	Ac	21432.08	PR	100
395	EQIP	Stream Habitat Improvement and Management	HU-Rock and wood structures	Ac	25718.5	PR	100
396	EQIP	Aquatic Organism Passage	Stream Simulation Culvert without Headwall	LnFt	986.64	PR	100
396	EQIP	Aquatic Organism Passage	HU-Stream Simulation Culvert without Headwall	LnFt	1183.97	PR	100
396	EQIP	Aquatic Organism Passage	Concrete Box Culvert	LnFt	1467.94	PR	100
396	EQIP	Aquatic Organism Passage	HU-Concrete Box Culvert	LnFt	1761.53	PR	100
410	EQIP	Grade Stabilization Structure	Embankment, Pipe <= 6"	CuYd	3.56	PR	100
410	EQIP	Grade Stabilization Structure	HU-Embankment, Pipe <= 6"	CuYd	4.27	PR	100
410	EQIP	Grade Stabilization Structure	Embankment, Pipe 8"-12"	CuYd	4.19	PR	100
410	EQIP	Grade Stabilization Structure	HU-Embankment, Pipe 8"-12"	CuYd	5.03	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
410	EQIP	Grade Stabilization Structure	Embankment, Pipe >12"	CuYd	5.4	PR	100
410	EQIP	Grade Stabilization Structure	HU-Embankment, Pipe >12"	CuYd	6.48	PR	100
410	EQIP	Grade Stabilization Structure	Pipe Drop, Plastic	SqFt	18.38	PR	100
410	EQIP	Grade Stabilization Structure	HU-Pipe Drop, Plastic	SqFt	22.05	PR	100
410	EQIP	Grade Stabilization Structure	Pipe Drop, Steel	SqFt	10.23	PR	100
410	EQIP	Grade Stabilization Structure	HU-Pipe Drop, Steel	SqFt	12.27	PR	100
410	EQIP	Grade Stabilization Structure	Weir Drop Structures	SqFt	63.03	PR	100
410	EQIP	Grade Stabilization Structure	HU-Weir Drop Structures	SqFt	75.63	PR	100
410	EQIP	Grade Stabilization Structure	Rock Drop Structures	SqFt	100.32	PR	100
410	EQIP	Grade Stabilization Structure	HU-Rock Drop Structures	SqFt	120.39	PR	100
410	EQIP	Grade Stabilization Structure	Log Drop Structures	Ea	3822.25	PR	100
410	EQIP	Grade Stabilization Structure	HU-Log Drop Structures	Ea	4586.7	PR	100
410	EQIP	Grade Stabilization Structure	Chute Structure	Ton	43.66	PR	100
410	EQIP	Grade Stabilization Structure	HU-Chute Structure	Ton	52.39	PR	100
410	EQIP	Grade Stabilization Structure	Pipe Inlet	Ft	36.47	PR	100
410	EQIP	Grade Stabilization Structure	HU-Pipe Inlet	Ft	43.77	PR	100
412	EQIP	Grassed Waterway	GWW < 1000ft long	SqFt	.04	PR	100
412	EQIP	Grassed Waterway	HU-GWW < 1000ft long	SqFt	.05	PR	100
412	EQIP	Grassed Waterway	GWW > 1,000ft long	Ac	1475.11	PR	100
412	EQIP	Grassed Waterway	HU-GWW > 1,000ft long	Ac	1770.13	PR	100
412	EQIP	Grassed Waterway	GWW with geotextile or stone checks	Ac	2109.98	PR	100
412	EQIP	Grassed Waterway	HU-GWW with geotextile or stone checks	Ac	2531.97	PR	100
422	EQIP	Hedgerow Planting	Wildlife, Warm Season Grass	SqFt	.02	PR	100
422	EQIP	Hedgerow Planting	HU-Wildlife, Warm Season Grass	SqFt	.03	PR	100
422	EQIP	Hedgerow Planting	Wildlife Cool Season	SqFt	.02	PR	100
422	EQIP	Hedgerow Planting	HU-Wildlife Cool Season	SqFt	.02	PR	100
430	EQIP	Irrigation Pipeline	Buried Pipe Less Than or Equal to 2 Inch Diameter	LnFt	1.96	PR	100
430	EQIP	Irrigation Pipeline	HU-Buried Pipe Less Than or Equal to 2 Inch Diameter	LnFt	2.35	PR	100
430	EQIP	Irrigation Pipeline	Surface HDPE	LnFt	1.17	PR	100
430	EQIP	Irrigation Pipeline	HU-Surface HDPE	LnFt	1.41	PR	100
436	EQIP	Irrigation Reservoir	Plastic Tank	Gal	1.06	PR	100
436	EQIP	Irrigation Reservoir	HU-Plastic Tank	Gal	1.27	PR	100
441	EQIP	Irrigation System, Microirrigation	Surface Tape <5 acres	Ac	1857.9	PR	100
441	EQIP	Irrigation System, Microirrigation	HU-Surface Tape <5 acres	Ac	2229.48	PR	100
441	EQIP	Irrigation System, Microirrigation	Surface Tape > 5 acres	Ac	1823.25	PR	100
441	EQIP	Irrigation System, Microirrigation	HU-Surface Tape > 5 acres	Ac	2187.9	PR	100
441	EQIP	Irrigation System, Microirrigation	Hoop House Surface Microirrigation	SqFt	.14	PR	100
441	EQIP	Irrigation System, Microirrigation	HU-Hoop House Surface Microirrigation	SqFt	.17	PR	100
442	EQIP	Sprinkler System	Center Pivot System	LnFt	56.56	PR	100
442	EQIP	Sprinkler System	HU-Center Pivot System	LnFt	67.87	PR	100
442	EQIP	Sprinkler System	Linear Move System	LnFt	71.77	PR	100
442	EQIP	Sprinkler System	HU-Linear Move System	LnFt	86.13	PR	100
442	EQIP	Sprinkler System	Renovation of Existing Sprinkler System	LnFt	4.66	PR	100
442	EQIP	Sprinkler System	HU-Renovation of Existing Sprinkler System	LnFt	5.59	PR	100
449	EQIP	Irrigation Water Management	Basic IWM ≤ 30 acres	Ac	14.96	PR	100
449	EQIP	Irrigation Water Management	HU-Basic IWM ≤ 30 acres	Ac	17.96	PR	100
449	EQIP	Irrigation Water Management	Basic IWM > 30 acres	Ac	6.74	PR	100
449	EQIP	Irrigation Water Management	HU-Basic IWM > 30 acres	Ac	8.09	PR	100
468	EQIP	Lined Waterway or Outlet	Turf Reinforced Matting	SqFt	.68	PR	100
468	EQIP	Lined Waterway or Outlet	HU-Turf Reinforced Matting	SqFt	.81	PR	100
468	EQIP	Lined Waterway or Outlet	Rock Lined, 12 inch	SqFt	2.94	PR	100
468	EQIP	Lined Waterway or Outlet	HU-Rock Lined, 12 inch	SqFt	3.53	PR	100
472	EQIP	Access Control	Animal exclusion from riparian zone	Ac	22.48	PR	100
472	EQIP	Access Control	HU-Animal exclusion from riparian zone	Ac	23.89	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
472	EQIP	Access Control	Animal exclusion from other sensitive areas such as wetlands and sinkholes	Ac	12.88	PR	100
472	EQIP	Access Control	HU-Animal exclusion from other sensitive areas such as wetlands and sinkholes	Ac	15	PR	100
472	EQIP	Access Control	Animal exclusion from woodland areas	Ac	2.48	PR	100
472	EQIP	Access Control	HU-Animal exclusion from woodland areas	Ac	2.67	PR	100
484	EQIP	Mulching	Natural Material - Full Coverage	Ac	366.84	PR	100
484	EQIP	Mulching	HU-Natural Material - Full Coverage	Ac	440.21	PR	100
484	EQIP	Mulching	Erosion Control Blanket	SqFt	.14	PR	100
484	EQIP	Mulching	HU-Erosion Control Blanket	SqFt	.17	PR	100
484	EQIP	Mulching	Synthetic Material	SqFt	.17	PR	100
484	EQIP	Mulching	HU-Synthetic Material	SqFt	.21	PR	100
484	EQIP	Mulching	Tree and Shrub	Ea	1.54	PR	100
484	EQIP	Mulching	HU-Tree and Shrub	Ea	1.85	PR	100
490	EQIP	Tree/Shrub Site Preparation	Ground Applied Herbicide, Forestland	Ac	55.98	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Ground Applied Herbicide, Forestland	Ac	67.17	PR	100
490	EQIP	Tree/Shrub Site Preparation	Aerial Applied Herbicide, Forestland	Ac	70.57	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Aerial Applied Herbicide, Forestland	Ac	84.68	PR	100
490	EQIP	Tree/Shrub Site Preparation	Hand Applied Herbicide, Forestland	Ac	138.9	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Hand Applied Herbicide, Forestland	Ac	166.68	PR	100
490	EQIP	Tree/Shrub Site Preparation	Rollerchop, Forest	Ac	98.79	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Rollerchop, Forest	Ac	118.55	PR	100
490	EQIP	Tree/Shrub Site Preparation	Rollerchop and Spray, Forest	Ac	172.78	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Rollerchop and Spray, Forest	Ac	207.34	PR	100
490	EQIP	Tree/Shrub Site Preparation	Shear and Pile, Forest, Dozer	Ac	313.89	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Shear and Pile, Forest, Dozer	Ac	376.66	PR	100
490	EQIP	Tree/Shrub Site Preparation	Mow and Spray, NonForest	Ac	66.39	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Mow and Spray, NonForest	Ac	79.67	PR	100
490	EQIP	Tree/Shrub Site Preparation	Mow and Disk, NonForest	Ac	63.67	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Mow and Disk, NonForest	Ac	76.4	PR	100
490	EQIP	Tree/Shrub Site Preparation	Furrow or Scalp and spray	Ac	85.22	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Furrow or Scalp and spray	Ac	102.26	PR	100
490	EQIP	Tree/Shrub Site Preparation	Spray, Furrow or Scalp and Spray	Ac	101.39	PR	100
490	EQIP	Tree/Shrub Site Preparation	HU-Spray, Furrow or Scalp and Spray	Ac	121.66	PR	100
511	EQIP	Forage Harvest Management	Improved Forage Quality	Ac	1.9	PR	100
511	EQIP	Forage Harvest Management	HU-Improved Forage Quality	Ac	2.27	PR	100
512	EQIP	Forage and Biomass Planting	Native warm season grass	Ac	210.31	PR	100
512	EQIP	Forage and Biomass Planting	HU-Native warm season grass	Ac	231.69	PR	100
512	EQIP	Forage and Biomass Planting	Native warm season grass mix	Ac	316.53	PR	100
512	EQIP	Forage and Biomass Planting	HU-Native warm season grass mix	Ac	359.15	PR	100
512	EQIP	Forage and Biomass Planting	Cool season grass and legume forage	Ac	381.44	PR	100
512	EQIP	Forage and Biomass Planting	HU-Cool season grass and legume forage	Ac	457.73	PR	100
512	EQIP	Forage and Biomass Planting	Warm season, introduced forage	Ac	388.93	PR	100
512	EQIP	Forage and Biomass Planting	HU-Warm season, introduced forage	Ac	466.72	PR	100
512	EQIP	Forage and Biomass Planting	Overseeding Legumes	Ac	322.01	PR	100
512	EQIP	Forage and Biomass Planting	HU-Overseeding Legumes	Ac	386.42	PR	100
512	EQIP	Forage and Biomass Planting	Overseeding Legumes-No Fertilizer	Ac	56.06	PR	100
512	EQIP	Forage and Biomass Planting	HU-Overseeding Legumes-No Fertilizer	Ac	67.28	PR	100
512	EQIP	Forage and Biomass Planting	Annuals in conversion to desireable cool season grass-legume mix	Ac	438.18	PR	100
512	EQIP	Forage and Biomass Planting	HU-Annuals in conversion to desireable cool season grass-legume mix	Ac	525.81	PR	100
512	EQIP	Forage and Biomass Planting	Annuals in conversion to NWSG Mix	Ac	408.01	PR	100
512	EQIP	Forage and Biomass Planting	HU-Annuals in conversion to NWSG Mix	Ac	489.61	PR	100
516	EQIP	Livestock Pipeline	Buried Pipeline, all diameters	LnFt	2.02	PR	100
516	EQIP	Livestock Pipeline	HU-Buried Pipeline, all diameters	LnFt	2.42	PR	100
521A	EQIP	Pond Sealing or Lining, Flexible Membrane	Flexible Membrane - Uncovered with liner drainage or venting	SqYd	9.49	PR	100
521A	EQIP	Pond Sealing or Lining, Flexible Membrane	HU-Flexible Membrane - Uncovered with liner drainage or venting	SqYd	11.39	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
521B	EQIP	Pond Sealing or Lining, Soil Dispersant	Soil Dispersant - Covered	CuYd	5.35	PR	100
521B	EQIP	Pond Sealing or Lining, Soil Dispersant	HU-Soil Dispersant - Covered	CuYd	6.42	PR	100
521C	EQIP	Pond Sealing or Lining, Bentonite Sealant	Bentonite Treatment - Covered	Ton	545.98	PR	100
521C	EQIP	Pond Sealing or Lining, Bentonite Sealant	HU-Bentonite Treatment - Covered	Ton	655.18	PR	100
521C	EQIP	Pond Sealing or Lining, Bentonite Sealant	Bentonite Treatment - Uncovered	Ton	516.55	PR	100
521C	EQIP	Pond Sealing or Lining, Bentonite Sealant	HU-Bentonite Treatment - Uncovered	Ton	619.86	PR	100
521D	EQIP	Pond Sealing or Lining, Compacted Clay Treatment	Material haul < 1 mile	CuYd	7.61	PR	100
521D	EQIP	Pond Sealing or Lining, Compacted Clay Treatment	HU-Material haul < 1 mile	CuYd	9.13	PR	100
528	EQIP	Prescribed Grazing	Pasture Standard (minimum of 4 paddocks)	Ac	11.92	PR	100
528	EQIP	Prescribed Grazing	HU-Pasture Standard (minimum of 4 paddocks)	Ac	14.3	PR	100
528	EQIP	Prescribed Grazing	Pasture Intensive (5 or more paddocks)	Ac	19.93	PR	100
528	EQIP	Prescribed Grazing	HU-Pasture Intensive (5 or more paddocks)	Ac	23.91	PR	100
533	EQIP	Pumping Plant	Pump <= 1.5 HP	Ea	1819.11	PR	100
533	EQIP	Pumping Plant	HU-Pump <= 1.5 HP	Ea	2182.93	PR	100
533	EQIP	Pumping Plant	Water Ram	Ea	1128.88	PR	100
533	EQIP	Pumping Plant	HU-Water Ram	Ea	1354.66	PR	100
533	EQIP	Pumping Plant	Pump >1.5 HP and <= 5 HP	BHP	917.67	PR	100
533	EQIP	Pumping Plant	HU-Pump >1.5 HP and <= 5 HP	BHP	1101.2	PR	100
533	EQIP	Pumping Plant	Pump >5 and <= 10 HP	BHP	527.26	PR	100
533	EQIP	Pumping Plant	HU-Pump >5 and <= 10 HP	BHP	632.72	PR	100
533	EQIP	Pumping Plant	Pump >10 and <= 20 HP	BHP	527.37	PR	100
533	EQIP	Pumping Plant	HU-Pump >10 and <= 20 HP	BHP	632.84	PR	100
533	EQIP	Pumping Plant	Photovoltaic <= 0.5 HP Pump	Ea	3217.96	PR	100
533	EQIP	Pumping Plant	HU-Photovoltaic <= 0.5 HP Pump	Ea	3861.55	PR	100
554	EQIP	Drainage Water Management	Drainage Water Management (DWM)	Ea	55.13	PR	100
554	EQIP	Drainage Water Management	HU-Drainage Water Management (DWM)	Ea	66.16	PR	100
558	EQIP	Roof Runoff Structure	Gutters and downspouts	LnFt	4.05	PR	100
558	EQIP	Roof Runoff Structure	HU-Gutters and downspouts	LnFt	4.86	PR	100
558	EQIP	Roof Runoff Structure	Drip pad	LnFt	2.91	PR	100
558	EQIP	Roof Runoff Structure	HU-Drip pad	LnFt	3.49	PR	100
560	EQIP	Access Road	New 6" gravel road in level terrain	Ft	11.08	PR	100
560	EQIP	Access Road	HU-New 6" gravel road in level terrain	Ft	13.3	PR	100
560	EQIP	Access Road	Rehabilitation of existing gravel road in level terrain	Ft	5.41	PR	100
560	EQIP	Access Road	HU-Rehabilitation of existing gravel road in level terrain	Ft	6.49	PR	100
561	EQIP	Heavy Use Area Protection	Rock/Gravel on Geotextile	SqFt	1.3	PR	100
561	EQIP	Heavy Use Area Protection	HU-Rock/Gravel on Geotextile	SqFt	1.57	PR	100
561	EQIP	Heavy Use Area Protection	Concrete(reinforced) Curb on existing slab	LnFt	10.27	PR	100
561	EQIP	Heavy Use Area Protection	HU-Concrete(reinforced) Curb on existing slab	LnFt	12.32	PR	100
561	EQIP	Heavy Use Area Protection	Concrete Slab, not rebar reinforced	SqFt	3.11	PR	100
561	EQIP	Heavy Use Area Protection	HU-Concrete Slab, not rebar reinforced	SqFt	3.73	PR	100
574	EQIP	Spring Development	Small Spring with Compacted Clay Cutoff Wall	Ea	928.15	PR	100
574	EQIP	Spring Development	HU-Small Spring with Compacted Clay Cutoff Wall	Ea	1113.78	PR	100
574	EQIP	Spring Development	Small Spring with Compacted Clay Cutoff Wall with Tank	Ea	2025.25	PR	100
574	EQIP	Spring Development	HU-Small Spring with Compacted Clay Cutoff Wall with Tank	Ea	2430.31	PR	100
575	EQIP	Trails and Walkways	Rock/Gravel on Geotextile, Walkway	SqFt	1.12	PR	100
575	EQIP	Trails and Walkways	HU-Rock/Gravel on Geotextile, Walkway	SqFt	1.35	PR	100
575	EQIP	Trails and Walkways	Rock/Gravel in GeoCell on Geotextile, Walkway	SqFt	3.04	PR	100
578	EQIP	Stream Crossing	Bridge	SqFt	37.65	PR	100
578	EQIP	Stream Crossing	HU-Bridge	SqFt	45.18	PR	100
578	EQIP	Stream Crossing	Hard armored low water crossing	SqFt	6.76	PR	100
578	EQIP	Stream Crossing	HU-Hard armored low water crossing	SqFt	8.11	PR	100
578	EQIP	Stream Crossing	Culvert installation	DiaInFt	3.3	PR	100
578	EQIP	Stream Crossing	HU-Culvert installation	DiaInFt	3.96	PR	100
578	EQIP	Stream Crossing	Low water crossing using prefabricated products	SqFt	6.07	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
578	EQIP	Stream Crossing	HU-Low water crossing using prefabricated products	SqFt	7.28	PR	100
580	EQIP	Streambank and Shoreline Protection	Vegetative	SqFt	.59	PR	100
580	EQIP	Streambank and Shoreline Protection	HU-Vegetative	SqFt	.71	PR	100
580	EQIP	Streambank and Shoreline Protection	Bioengineered	SqFt	1.67	PR	100
580	EQIP	Streambank and Shoreline Protection	HU-Bioengineered	SqFt	2	PR	100
580	EQIP	Streambank and Shoreline Protection	Structural-Riprap,Block,Gabions	Ton	47.26	PR	100
580	EQIP	Streambank and Shoreline Protection	HU-Structural-Riprap,Block,Gabions	Ton	56.71	PR	100
580	EQIP	Streambank and Shoreline Protection	Structural-J Hook, Cross Vane	Ton	47.45	PR	100
580	EQIP	Streambank and Shoreline Protection	HU-Structural-J Hook, Cross Vane	Ton	56.94	PR	100
584	EQIP	Channel Bed Stabilization	Bio-engineering	SqFt	2.72	PR	100
584	EQIP	Channel Bed Stabilization	HU-Bio-engineering	SqFt	3.26	PR	100
584	EQIP	Channel Bed Stabilization	Rock structures	CuYd	75.57	PR	100
584	EQIP	Channel Bed Stabilization	HU-Rock structures	CuYd	90.69	PR	100
584	EQIP	Channel Bed Stabilization	Wood structures	Ea	2453.51	PR	100
584	EQIP	Channel Bed Stabilization	HU-Wood structures	Ea	2944.22	PR	100
584	EQIP	Channel Bed Stabilization	Structural- J Hook, Cross Vane, etc.requiring boulders	CuYd	76.87	PR	100
584	EQIP	Channel Bed Stabilization	HU-Structural- J Hook, Cross Vane, etc.requiring boulders	CuYd	92.24	PR	100
585	EQIP	Stripcropping	Stripcropping - water erosion	Ac	3.35	PR	100
585	EQIP	Stripcropping	HU-Stripcropping - water erosion	Ac	4.03	PR	100
585	EQIP	Stripcropping	Stripcropping - wind erosion	Ac	1.41	PR	100
585	EQIP	Stripcropping	HU-Stripcropping - wind erosion	Ac	1.69	PR	100
587	EQIP	Structure for Water Control	Inlet Flashboard Riser, Metal	DiaInFt	3.59	PR	100
587	EQIP	Structure for Water Control	HU-Inlet Flashboard Riser, Metal	DiaInFt	4.3	PR	100
587	EQIP	Structure for Water Control	Flashboard Riser w/ Single Headwall	DiaInFt	5.65	PR	100
587	EQIP	Structure for Water Control	HU-Flashboard Riser w/ Single Headwall	DiaInFt	6.78	PR	100
587	EQIP	Structure for Water Control	Flashboard Riser w/ Double Headwall	DiaInFt	7.93	PR	100
587	EQIP	Structure for Water Control	HU-Flashboard Riser w/ Double Headwall	DiaInFt	9.51	PR	100
587	EQIP	Structure for Water Control	Inline Flashboard Riser, Metal	DiaInFt	2.59	PR	100
587	EQIP	Structure for Water Control	HU-Inline Flashboard Riser, Metal	DiaInFt	3.1	PR	100
587	EQIP	Structure for Water Control	Commercial Inline Flashboard Riser	DiaInFt	3.82	PR	100
587	EQIP	Structure for Water Control	HU-Commercial Inline Flashboard Riser	DiaInFt	4.59	PR	100
587	EQIP	Structure for Water Control	Culvert <30 inches HDPE	DiaInFt	1.47	PR	100
587	EQIP	Structure for Water Control	HU-Culvert <30 inches HDPE	DiaInFt	1.76	PR	100
587	EQIP	Structure for Water Control	Culvert <30 inches CMP	DiaInFt	1.63	PR	100
587	EQIP	Structure for Water Control	HU-Culvert <30 inches CMP	DiaInFt	1.95	PR	100
587	EQIP	Structure for Water Control	Flap Gate	Ft	1268.1	PR	100
587	EQIP	Structure for Water Control	HU-Flap Gate	Ft	1521.72	PR	100
587	EQIP	Structure for Water Control	Flap Gate w/ Concrete Wall	CuYd	805.24	PR	100
587	EQIP	Structure for Water Control	HU-Flap Gate w/ Concrete Wall	CuYd	966.29	PR	100
587	EQIP	Structure for Water Control	Flow Meter with Mechanical Index	In	145.02	PR	100
587	EQIP	Structure for Water Control	HU-Flow Meter with Mechanical Index	In	174.03	PR	100
590	EQIP	Nutrient Management	Basic NM System--Inorganic Fertilizer	Ac	3.2	PR	100
590	EQIP	Nutrient Management	HU-Basic NM System--Inorganic Fertilizer	Ac	3.84	PR	100
590	EQIP	Nutrient Management	Diversified/Specialty Crop Nutrient Mangement Plan	Ea	76.96	PR	100
590	EQIP	Nutrient Management	HU-Diversified/Specialty Crop Nutrient Mangement Plan	Ea	92.35	PR	100
590	EQIP	Nutrient Management	Basic NM system with manure	Ac	5.34	PR	100
590	EQIP	Nutrient Management	HU-Basic NM system with manure	Ac	6.41	PR	100
590	EQIP	Nutrient Management	Enhanced Nutrient Mgt	Ac	22.74	PR	100
590	EQIP	Nutrient Management	HU-Enhanced Nutrient Mgt	Ac	27.29	PR	100
590	EQIP	Nutrient Management	Precision NM System	Ac	14.95	PR	100
590	EQIP	Nutrient Management	HU-Precision NM System	Ac	17.93	PR	100
590	EQIP	Nutrient Management	Advanced NM Precision System	Ac	19.39	PR	100
590	EQIP	Nutrient Management	HU-Advanced NM Precision System	Ac	23.27	PR	100
590	EQIP	Nutrient Management	Adaptive NM	Ea	1340.42	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
590	EQIP	Nutrient Management	HU-Adaptive NM	Ea	1608.5	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Field 1RC	Ac	11.43	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Field 1RC	Ac	13.71	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Field >1RC	Ac	15.38	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Field >1RC	Ac	18.46	PR	100
595	EQIP	Integrated Pest Management	Advanced Field All RCs	Ac	22.86	PR	100
595	EQIP	Integrated Pest Management	HU-Advanced Field All RCs	Ac	27.43	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Fruit/Veg 1RC	Ac	63.3	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Fruit/Veg 1RC	Ac	75.96	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Fruit/Veg >1RC	Ac	80.89	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Fruit/Veg >1RC	Ac	97.07	PR	100
595	EQIP	Integrated Pest Management	Advanced IPM Fruit/Veg All RCs	Ac	123.11	PR	100
595	EQIP	Integrated Pest Management	HU-Advanced IPM Fruit/Veg All RCs	Ac	147.73	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Orchard 1RC	Ac	80.89	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Orchard 1RC	Ac	97.07	PR	100
595	EQIP	Integrated Pest Management	Basic IPM Orchard >1RC	Ac	123.11	PR	100
595	EQIP	Integrated Pest Management	HU-Basic IPM Orchard >1RC	Ac	147.73	PR	100
595	EQIP	Integrated Pest Management	Advanced IPM Orchard All RCs	Ac	184.73	PR	100
595	EQIP	Integrated Pest Management	HU-Advanced IPM Orchard All RCs	Ac	221.67	PR	100
595	EQIP	Integrated Pest Management	IPM S-Farm 1RC	Ea	386.82	PR	100
595	EQIP	Integrated Pest Management	HU-IPM S-Farm 1RC	Ea	464.18	PR	100
595	EQIP	Integrated Pest Management	IPM S-Farm >1RC	Ea	492.42	PR	100
595	EQIP	Integrated Pest Management	HU-IPM S-Farm >1RC	Ea	590.9	PR	100
595	EQIP	Integrated Pest Management	Advanced IPM S-Farm All RCs	Ea	738.63	PR	100
595	EQIP	Integrated Pest Management	HU-Advanced IPM S-Farm All RCs	Ea	886.36	PR	100
600	EQIP	Terrace	Broadbased	Ft	1.67	PR	100
600	EQIP	Terrace	HU-Broadbased	Ft	2.01	PR	100
600	EQIP	Terrace	Flat Channel	Ft	2.73	PR	100
600	EQIP	Terrace	HU-Flat Channel	Ft	3.27	PR	100
606	EQIP	Subsurface Drain	Corrugated Plastic Pipe (CPP), Single-Wall, ≤ 6 Inches	Ft	2.7	PR	100
606	EQIP	Subsurface Drain	HU-Corrugated Plastic Pipe (CPP), Single-Wall, ≤ 6 Inches	Ft	3.24	PR	100
606	EQIP	Subsurface Drain	Enveloped Corrugated Plastic Pipe (CPP), Single-Wall, ≤ 6 Inches	Ft	4.06	PR	100
606	EQIP	Subsurface Drain	HU-Enveloped Corrugated Plastic Pipe (CPP), Single-Wall, ≤ 6 Inches	Ft	4.87	PR	100
612	EQIP	Tree/Shrub Establishment	Plug Conifers, hand plant	Ac	111.92	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Plug Conifers, hand plant	Ac	134.31	PR	100
612	EQIP	Tree/Shrub Establishment	Bare root confiers, hand plant	Ac	56.88	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Bare root confiers, hand plant	Ac	68.25	PR	100
612	EQIP	Tree/Shrub Establishment	Bare Root Conifers, machine plant	Ac	58.09	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Bare Root Conifers, machine plant	Ac	69.7	PR	100
612	EQIP	Tree/Shrub Establishment	Hand plant bare root hardwoods, no tubes	Ac	176.71	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Hand plant bare root hardwoods, no tubes	Ac	212.05	PR	100
612	EQIP	Tree/Shrub Establishment	Bare Root Hardwood, machine plant, no tubes, 300	Ac	166.9	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Bare Root Hardwood, machine plant, no tubes, 300	Ac	200.28	PR	100
612	EQIP	Tree/Shrub Establishment	Planting Bare Root Shrubs, no tubes	Ac	1311.7	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Planting Bare Root Shrubs, no tubes	Ac	1574.05	PR	100
612	EQIP	Tree/Shrub Establishment	Hand Plant Containerized with Protection from Wildlife (per plant), w tubes	Ea	2.4	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Hand Plant Containerized with Protection from Wildlife (per plant), w tubes	Ea	2.88	PR	100
612	EQIP	Tree/Shrub Establishment	Potted, each, tube	Ea	18.16	PR	100
612	EQIP	Tree/Shrub Establishment	HU-Potted, each, tube	Ea	21.79	PR	100
612	EQIP	Tree/Shrub Establishment	BRHdwds w tubes, 110 per acre	Ac	407.64	PR	100
612	EQIP	Tree/Shrub Establishment	HU-BRHdwds w tubes, 110 per acre	Ac	489.16	PR	100
612	EQIP	Tree/Shrub Establishment	BRHdwds w tubes, 300 per acre	Ac	1119.71	PR	100
612	EQIP	Tree/Shrub Establishment	HU-BRHdwds w tubes, 300 per acre	Ac	1343.66	PR	100
614	EQIP	Watering Facility	2-hole freeze-proof watering trough	Ea	957.18	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
614	EQIP	Watering Facility	HU-2-hole freeze-proof watering trough	Ea	1148.62	PR	100
614	EQIP	Watering Facility	4-hole freeze-proof watering trough	Ea	1191.03	PR	100
614	EQIP	Watering Facility	HU-4-hole freeze-proof watering trough	Ea	1429.24	PR	100
614	EQIP	Watering Facility	Tank, 500 to 1000 gallons	Ea	1307.25	PR	100
614	EQIP	Watering Facility	HU-Tank, 500 to 1000 gallons	Ea	1568.7	PR	100
614	EQIP	Watering Facility	Portable Trough, less than 100 gallons	Ea	89.51	PR	100
614	EQIP	Watering Facility	HU-Portable Trough, less than 100 gallons	Ea	107.42	PR	100
614	EQIP	Watering Facility	Water Ramp,Rock on Geotextile	SqFt	1.37	PR	100
614	EQIP	Watering Facility	HU-Water Ramp,Rock on Geotextile	SqFt	1.64	PR	100
620	EQIP	Underground Outlet	Pipe, no inlet, 6 inch or less	Ft	3.74	PR	100
620	EQIP	Underground Outlet	HU-Pipe, no inlet, 6 inch or less	Ft	4.49	PR	100
620	EQIP	Underground Outlet	Pipe, no inlet, 12 inch or less	Ft	7.09	PR	100
620	EQIP	Underground Outlet	HU-Pipe, no inlet, 12 inch or less	Ft	8.51	PR	100
620	EQIP	Underground Outlet	Pipe, no inlet, greater than 12 inch	Ft	10.86	PR	100
620	EQIP	Underground Outlet	HU-Pipe, no inlet, greater than 12 inch	Ft	13.04	PR	100
620	EQIP	Underground Outlet	Pipe, riser, 6 inch or less	Ft	3.8	PR	100
620	EQIP	Underground Outlet	HU-Pipe, riser, 6 inch or less	Ft	4.56	PR	100
620	EQIP	Underground Outlet	Pipe, riser, 12 inch or less	Ft	7.01	PR	100
620	EQIP	Underground Outlet	HU-Pipe, riser, 12 inch or less	Ft	8.41	PR	100
620	EQIP	Underground Outlet	Pipe, riser, greater than 12 inch	Ft	12.56	PR	100
620	EQIP	Underground Outlet	HU-Pipe, riser, greater than 12 inch	Ft	15.07	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, 6 inch or less	Ft	7.97	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, 6 inch or less	Ft	9.56	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, 12 inch or less	Ft	8.75	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, 12 inch or less	Ft	10.5	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, 18 inch or less	Ft	16.03	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, 18 inch or less	Ft	19.24	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, 24 inch or less	Ft	23.88	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, 24 inch or less	Ft	28.66	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, 30 inch or less	Ft	32.52	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, 30 inch or less	Ft	39.02	PR	100
620	EQIP	Underground Outlet	Pipe, drop inlet, greater than 30 inch	Ft	41.19	PR	100
620	EQIP	Underground Outlet	HU-Pipe, drop inlet, greater than 30 inch	Ft	49.42	PR	100
634	EQIP	Waste Transfer	Medium sized wastewater reception pit with 6 inch conduit transfer pipe to waste storage pond	Gal	2.72	PR	100
634	EQIP	Waste Transfer	HU-Medium sized wastewater reception pit with 6 inch conduit transfer pipe to waste storage pond	Gal	3.27	PR	100
634	EQIP	Waste Transfer	Concrete Channel	SqFt	7.21	PR	100
634	EQIP	Waste Transfer	HU-Concrete Channel	SqFt	8.65	PR	100
634	EQIP	Waste Transfer	Concrete Channel, push-off wall at pond and safety gate	SqFt	8.91	PR	100
634	EQIP	Waste Transfer	HU-Concrete Channel, push-off wall at pond and safety gate	SqFt	10.69	PR	100
634	EQIP	Waste Transfer	30 inch HDPE conduit, gravity flow, from an existing inlet structure to site of treatment or storage.	Ft	58.91	PR	100
634	EQIP	Waste Transfer	HU-30 inch HDPE conduit, gravity flow, from an existing inlet structure to site of treatment or storage.	Ft	70.69	PR	100
634	EQIP	Waste Transfer	6 inch diameter, Pressure flow PVC pipeline, from waste storage pond to land application site.	Ft	9.53	PR	100
634	EQIP	Waste Transfer	HU-6 inch diameter, Pressure flow PVC pipeline, from waste storage pond to land application site.	Ft	11.44	PR	100
638	EQIP	Water & Sediment Control Basin	WASCOB topsoil	CuYd	2.06	PR	100
638	EQIP	Water & Sediment Control Basin	HU-WASCOB topsoil	CuYd	2.47	PR	100
642	EQIP	Water Well	Steel casing for consolidated geologic sites with stable rock formations	LnFt	11.53	PR	100
642	EQIP	Water Well	HU-Steel casing for consolidated geologic sites with stable rock formations	LnFt	13.84	PR	100
643	EQIP	Restoration and Management of Rare and Declining Habitats	Habitat Monitoring and Management, Low Intensity and Complexity	Ac	2.45	PR	100
643	EQIP	Restoration and Management of Rare and Declining Habitats	HU-Habitat Monitoring and Management, Low Intensity and Complexity	Ac	2.94	PR	100
645	EQIP	Upland Wildlife Habitat Management	Habitat Monitoring and Management, Low Intensity and Complexity	Ac	2.45	PR	100
645	EQIP	Upland Wildlife Habitat Management	HU-Habitat Monitoring and Management, Low Intensity and Complexity	Ac	2.94	PR	100
647	EQIP	Early Successional Habitat Development and Management	Habitat Mowing	Ac	92.62	PR	100
647	EQIP	Early Successional Habitat Development and Management	HU-Habitat Mowing	Ac	111.15	PR	100
647	EQIP	Early Successional Habitat Development and Management	Habitat Disking	Ac	77.92	PR	100

Practice_Code	Cost_Share_Program	Practice_Name	Component	Unit_Type	Unit_Cost	Cost_Type	Share_Rate
647	EQIP	Early Successional Habitat Development and Management	HU-Habitat Disking	Ac	93.5	PR	100
647	EQIP	Early Successional Habitat Development and Management	Early Successional Habitat Forest Opening (Clearcut)	Ac	646.5	PR	100
647	EQIP	Early Successional Habitat Development and Management	HU-Early Successional Habitat Forest Opening (Clearcut)	Ac	775.8	PR	100
647	EQIP	Early Successional Habitat Development and Management	Edge Feathering (Cutback Borders)	Ac	358.32	PR	100
647	EQIP	Early Successional Habitat Development and Management	HU-Edge Feathering (Cutback Borders)	Ac	429.98	PR	100
647	EQIP	Early Successional Habitat Development and Management	Habitat Selective Herbicide	Ac	35.57	PR	100
647	EQIP	Early Successional Habitat Development and Management	HU-Habitat Selective Herbicide	Ac	42.69	PR	100
647	EQIP	Early Successional Habitat Development and Management	Habitat Non-Selective Herbicide	Ac	16.17	PR	100
647	EQIP	Early Successional Habitat Development and Management	HU-Habitat Non-Selective Herbicide	Ac	19.4	PR	100
654	EQIP	Road / Trail / Landing Closure and Treatment	Road/Trail Abandonment/Rehabilitation (Light)	Ft	2	PR	100
654	EQIP	Road / Trail / Landing Closure and Treatment	HU-Road/Trail Abandonment/Rehabilitation (Light)	Ft	2.4	PR	100
654	EQIP	Road / Trail / Landing Closure and Treatment	Road/Trail removal and restoration (Vegetative)	Ft	2	PR	100
654	EQIP	Road / Trail / Landing Closure and Treatment	HU-Road/Trail removal and restoration (Vegetative)	Ft	2.4	PR	100
655	EQIP	Forest Trails and Landings	Trail Erosion Control w/o Vegetation, Slopes < 35%	Ft	2.52	PR	100
655	EQIP	Forest Trails and Landings	HU-Trail Erosion Control w/o Vegetation, Slopes < 35%	Ft	3.02	PR	100
655	EQIP	Forest Trails and Landings	Trail Erosion Control w/o Vegetation, Slopes >35%	Ft	10.16	PR	100
655	EQIP	Forest Trails and Landings	HU-Trail Erosion Control w/o Vegetation, Slopes >35%	Ft	12.2	PR	100
655	EQIP	Forest Trails and Landings	Grading and Shaping with Vegetative Establishment	Ft	1.87	PR	100
655	EQIP	Forest Trails and Landings	HU-Grading and Shaping with Vegetative Establishment	Ft	2.24	PR	100
655	EQIP	Forest Trails and Landings	Temporary Stream Crossing	Ea	751.29	PR	100
655	EQIP	Forest Trails and Landings	HU-Temporary Stream Crossing	Ea	901.55	PR	100
666	EQIP	Forest Stand Improvement	Pre-commercial Thinning - Hand tools	Ac	197.95	PR	100
666	EQIP	Forest Stand Improvement	HU-Pre-commercial Thinning - Hand tools	Ac	237.54	PR	100
666	EQIP	Forest Stand Improvement	Timber Stand Improvement - Single Stem Treatment	Ac	201.49	PR	100
666	EQIP	Forest Stand Improvement	HU-Timber Stand Improvement - Single Stem Treatment	Ac	241.79	PR	100
666	EQIP	Forest Stand Improvement	Timber Stand Improvement - Chemical, Ground	Ac	36.56	PR	100
666	EQIP	Forest Stand Improvement	HU-Timber Stand Improvement - Chemical, Ground	Ac	43.88	PR	100
666	EQIP	Forest Stand Improvement	Timber Stand Improvement - Chemical, Aerial	Ac	60.82	PR	100
666	EQIP	Forest Stand Improvement	HU-Timber Stand Improvement - Chemical, Aerial	Ac	72.99	PR	100
666	EQIP	Forest Stand Improvement	Competition Control - Mechanical, Light Equipment	Ac	28.07	PR	100
666	EQIP	Forest Stand Improvement	HU-Competition Control - Mechanical, Light Equipment	Ac	33.69	PR	100
666	EQIP	Forest Stand Improvement	Competition Control - Mechanical, Heavy Equipment	Ac	463.96	PR	100
666	EQIP	Forest Stand Improvement	HU-Competition Control - Mechanical, Heavy Equipment	Ac	556.76	PR	100
666	EQIP	Forest Stand Improvement	Creating Patch Clearcuts	Ac	151.32	PR	100
666	EQIP	Forest Stand Improvement	HU-Creating Patch Clearcuts	Ac	181.58	PR	100
666	EQIP	Forest Stand Improvement	Forest Thinning for Wildlife and Health	Ac	229.23	PR	100
666	EQIP	Forest Stand Improvement	HU-Forest Thinning for Wildlife and Health	Ac	275.07	PR	100
798	EQIP	Seasonal High Tunnel for Crops	Quonset-style (arched roof)	SqFt	2.83	PR	100
798	EQIP	Seasonal High Tunnel for Crops	HU-Quonset-style (arched roof)	SqFt	3.39	PR	100
798	EQIP	Seasonal High Tunnel for Crops	Gothic-style (peaked roof)	SqFt	3.67	PR	100
798	EQIP	Seasonal High Tunnel for Crops	HU-Gothic-style (peaked roof)	SqFt	4.41	PR	100