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Final Report

Upper Clear Creek Erosion and Sediment Strategy And Erosion Inventory



2003

Prepared by
Western Shasta Resource Conservation District

This final erosion report was prepared as part of agreement No. 99-N16 between WSRCD and CALFED, administered by National Fish and Wildlife Foundation, and as part of agreement No. 11330-0-J100A between WSRCD and U.S. Fish and Wildlife Service.

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Background

The Upper Clear Creek erosion inventory was accomplished by leveraging funds from two grants. The Clear Creek Prescription grant No. 99-N16 from CALFED contained a task that called for an erosion inventory and on-the-ground treatment of priority erosion areas. At the same time, WSRCD received a grant from U.S. Fish and Wildlife Service through their Jobs-In-The-Woods Program, No. 11330-0-J100A, for an erosion inventory. The objective of the inventory was to locate, identify and quantify sources of erosion contributing sediment to upper Clear Creek. These two grants were leveraged to achieve the erosion inventory part of the CALFED grant on 43,000 acres, and leave enough funds in that grant to accomplish two separate erosion control projects. At the end of the reporting period for the CALFED grant, March 30, 2003, WSRCD crews had inventoried a total of 51,000 acres.

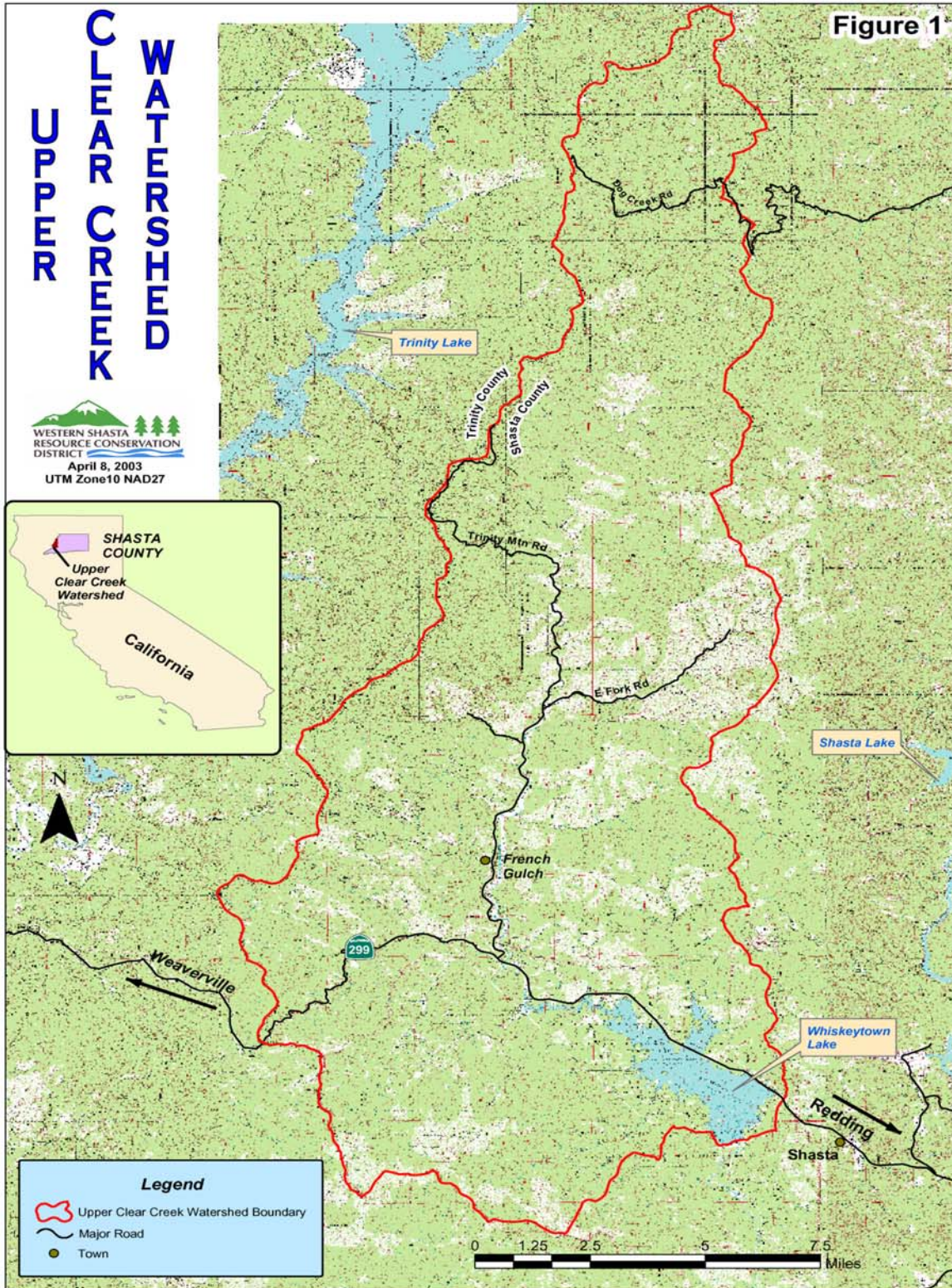
The Upper Clear Creek watershed is located in Shasta County, California, approximately six miles west of the City of Redding, and approximately 235 miles north of San Francisco. The watershed lies along the eastern flank of the Trinity Mountains, just east of the Trinity-Shasta County line. Clear Creek is part of the Upper Sacramento River Basin (Hydrologic Unit Code 18020112), and is an important tributary of the Sacramento River.

The Whiskeytown Dam divides the Clear Creek watershed into both upper and lower watershed areas. While the dam prevents the upstream migration of anadromous fish to historic spawning grounds located in the upper watershed, water quality and suspended sediments in releases from the dam can affect salmon and other aquatic resources downstream of the dam.

This final report was prepared as part of agreement No. 99-N16 between WSRCD and CALFED, and as part of agreement No. 11330-0-J100A between WSRCD and U.S. Fish and Wildlife Service to present the results of the erosion inventory efforts.

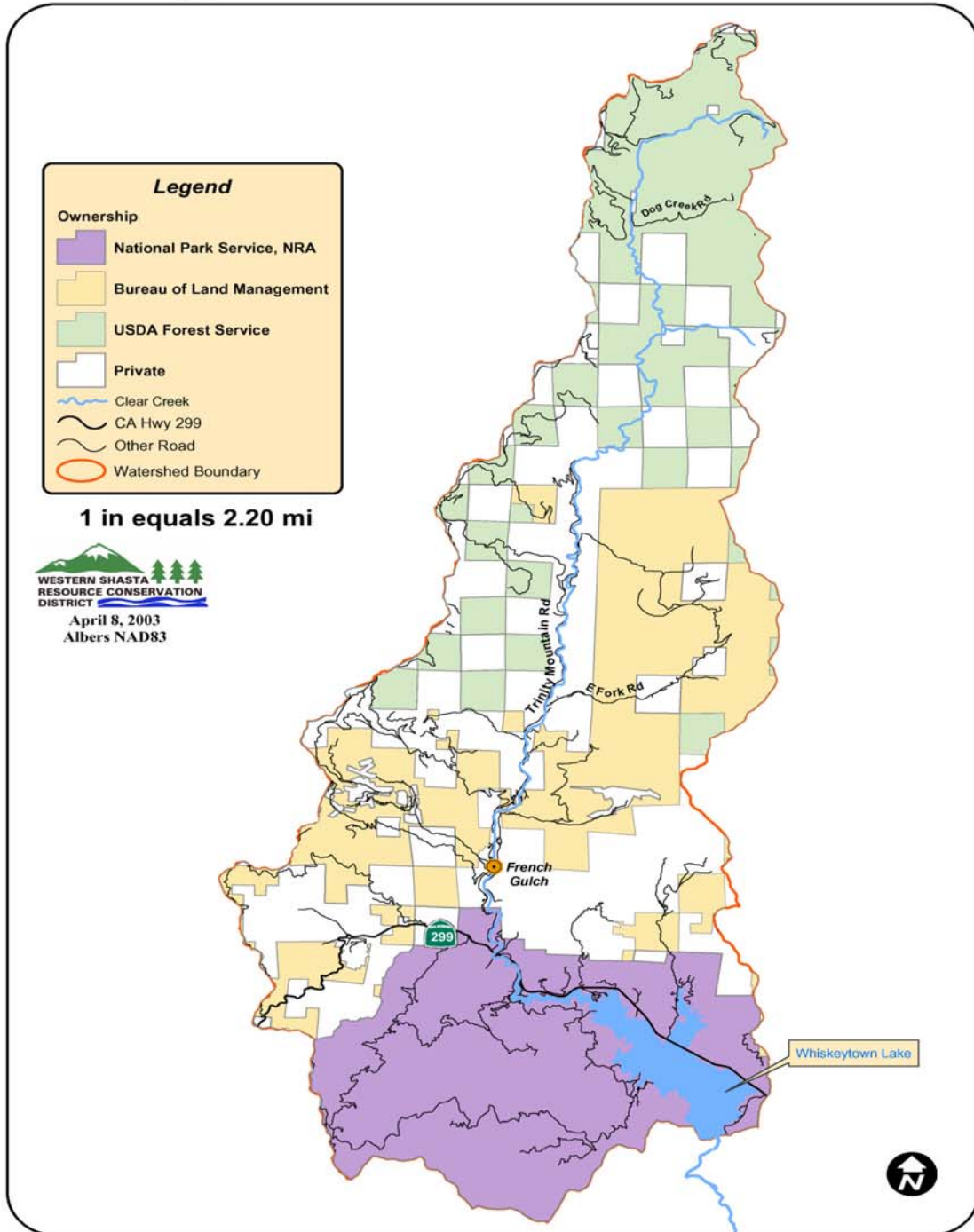
Project Location

The Upper Clear Creek watershed occupies nearly 200 square miles upstream of Whiskeytown Dam (Figure 1). The upper watershed consists of approximately 127,916 acres, which includes approximately 86,188 acres of publicly-owned land and 41,728 acres of privately-owned land (Figure 2). Publicly-owned land includes land managed by three main federal agencies: the Forest Service, the Bureau of Land Management, and the National Park Service. Privately-owned land includes private lands zoned by Shasta County for timber production, and private lands zoned for Agricultural Preserves, residential, commercial, and other uses. This project was conducted on all public and private lands where access was granted by the landowner.



Public and Private Land Ownership Upper Clear Creek Watershed

Figure 2



Methodology

The methodology for this erosion inventory was based on a similar inventory conducted in the Lower Clear Creak watershed by the Western Shasta Resource Conservation District.

A Technical Advisory Committee (TAC) was formed consisting of The Bureau of Land Management (BLM), Whiskeytown National Recreation Area (NRA), United States Forest Service (USFS), Sierra Pacific Industry (SPI), Natural Resources Conservation Service (NRCS) and two private landowners from within the watershed.

The TAC determined that assessment of both larger (100-year) and lesser (25-year) storm events was needed. The inventory focused on site-specific sediment sources such as roads, skid trails, landings, mining sites and residential development. The TAC's focus was on event driven erosion not annual erosion, therefore hillside sheet, rill, and stream bank erosion were not addressed, as the focus was on human-related disturbances.

One of the main requests of the USFS was that all culverts be inventoried regardless of sedimentation as this was a major interest to them. It was felt by the entire TAC that culverts do present the most likely source for sedimentation; therefore, it was decided to inventory all culverts. Culverts were to be given GPS coordinates along with other information regardless of the sedimentation possibilities.

Color infrared aerial photographs at a scale of 1:40,000 and black and white aerial photos at a scale of 1:40,000 were used to identify potential erosion sites and road networks. The aerial photos were flown in 1998, and were purchased from the United States Geological Survey. Shasta County Tax Assessors maps were used to assemble land ownership patterns. Landowners identified through the Assessors database were then sent a letter providing background information on the project's goals and objectives, as well as a postcard for the landowner to fill out and mail back granting or denying access to their property.

Landowners who granted access were contacted prior to the site visit and inventory. When possible, the crewmembers met with the landowners on their property to gather information regarding known erosion problems, boundaries, history, and possible hazards located on their property. An initial reconnaissance survey was then conducted on the property.

Once an erosion site was located, information was recorded on a standardized datasheet (Appendix A). In addition to general information, specific data included accessibility, the cause and nature of the problem, future erosion volume, a sketch of the site and problem, and possible treatments. Photos were taken at each large magnitude erosion site, and when possible, a Global Positioning System (GPS) was utilized at each site to record the precise location in Universal Transverse Mercator (UTM) coordinates. The locations of erosion sites were mapped on a large topographical map of the watershed, and erosion volume estimates were made using a direct volume calculation (gully, prism, or conical method). Ocular estimates were made on some of the smaller sites. Future erosion estimates were based on the amount of material expected to erode assuming no treatment was applied.

The information collected was then compiled into a Microsoft Access database (Appendix E), while the key to the abbreviations used in that table is included as Appendix B. The database will allow the information to be queried in order to prioritize restoration efforts. It was felt that using the Lesser Event data and Bigger Event data comparatively helped the prioritization process.

Data Summary

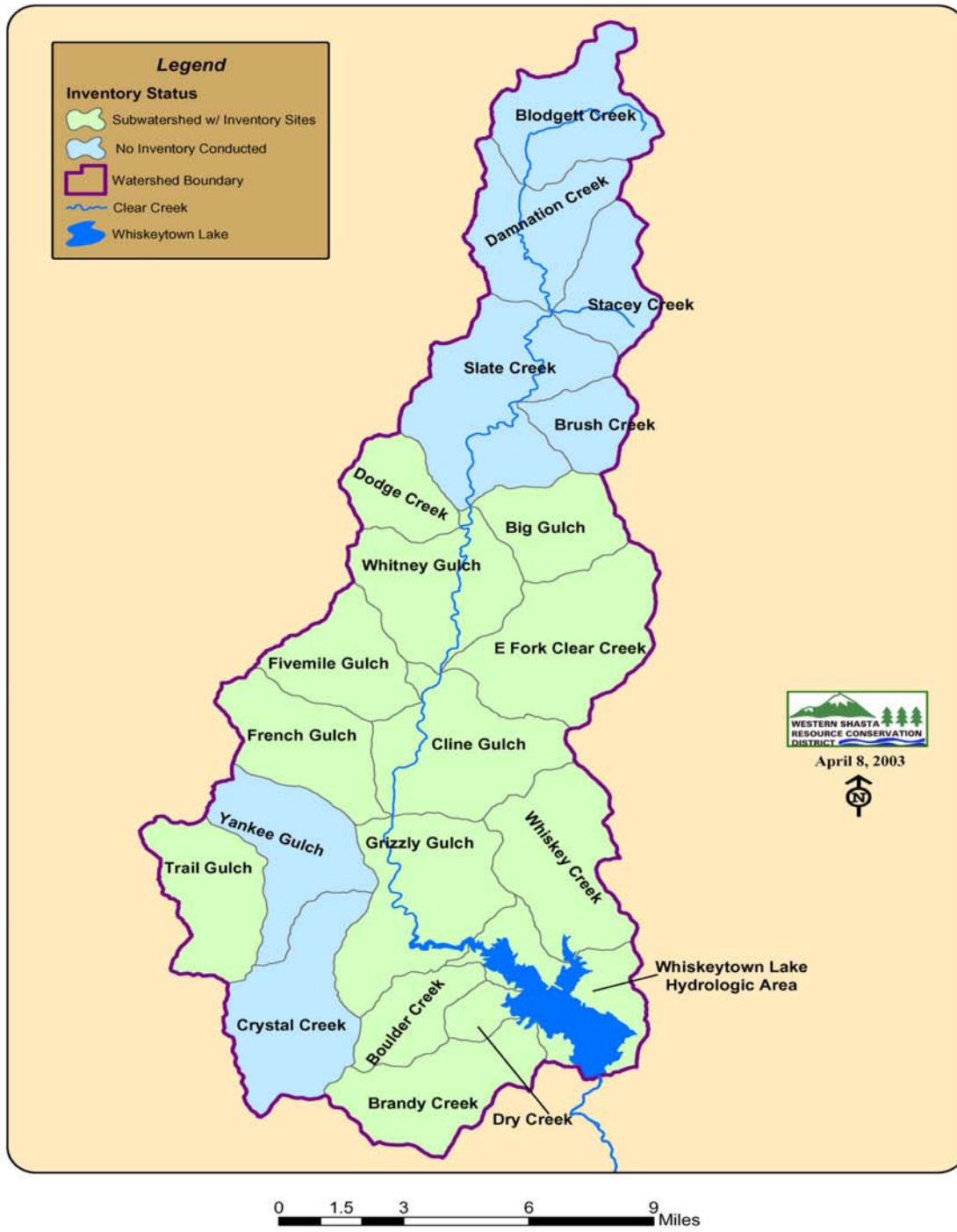
Approximately 51,000 acres were inventoried through 531 sites. Per a USFS request, eight sites inventoried included only culvert data collected from the culvert section on Appendix A. These eight sites had no current erosion problem, bringing the total number of sites having potential for sediment delivery to 523. Total estimated potential for erosion in the "lesser event" for the 531 sites inventoried is 51,585 cubic yards while the total estimated potential for the "big event" for these problems is 111,317 cubic yards. Table 1 shows the distribution of erosion and sediment by feature and erosion potential, based on event size. Totals for erosion and sediment potential in relation to event size are also included in Table 1. A total of 70 sites from the 531 sites inventoried were recommended for immediate attention, as the inventory team believed more normal storm events would produce significant erosion at these problems (See Appendix C).

Due to the inability of WSRCD GPS equipment to reach satellites in the canyons of the watershed, GPS coordinates for all of the sites inventoried are not complete at this time.

The erosion inventory database within the subwatersheds with their attributes is included as Appendix E. A map showing the inventoried watersheds is included as Figure 3.

Erosion Inventory Status in the Upper Clear Creek Watershed

Figure 3



Project Identification

A. Listing

After several subwatersheds had been inventoried during the winter of 2000-2001, the TAC met in April 2001 to identify, list, and prioritize potential projects for erosion control. Economy of construction (grouping of several sites in an area), and high visual accessibility were also major considerations.

The TAC determined the following criteria: Any sites having the potential of producing 200 yards or more of sediment would warrant consideration for listing as a priority erosion control project. The database was queried as requested by the TAC and it generated a list of 70 sites that met the criteria (See Appendix C). The TAC determined road segments best suited for erosion control consideration. Several factors were used to determine the feasibility for successful erosion control, including geographic location, landowner cooperation, and cost per cubic yard of sediment saved. The TAC felt additional cooperation from landowners would be forthcoming once local landowners were able to conduct a visual assessment of work, and had a better understanding of the outcome of the inventory and resulting erosion control projects.

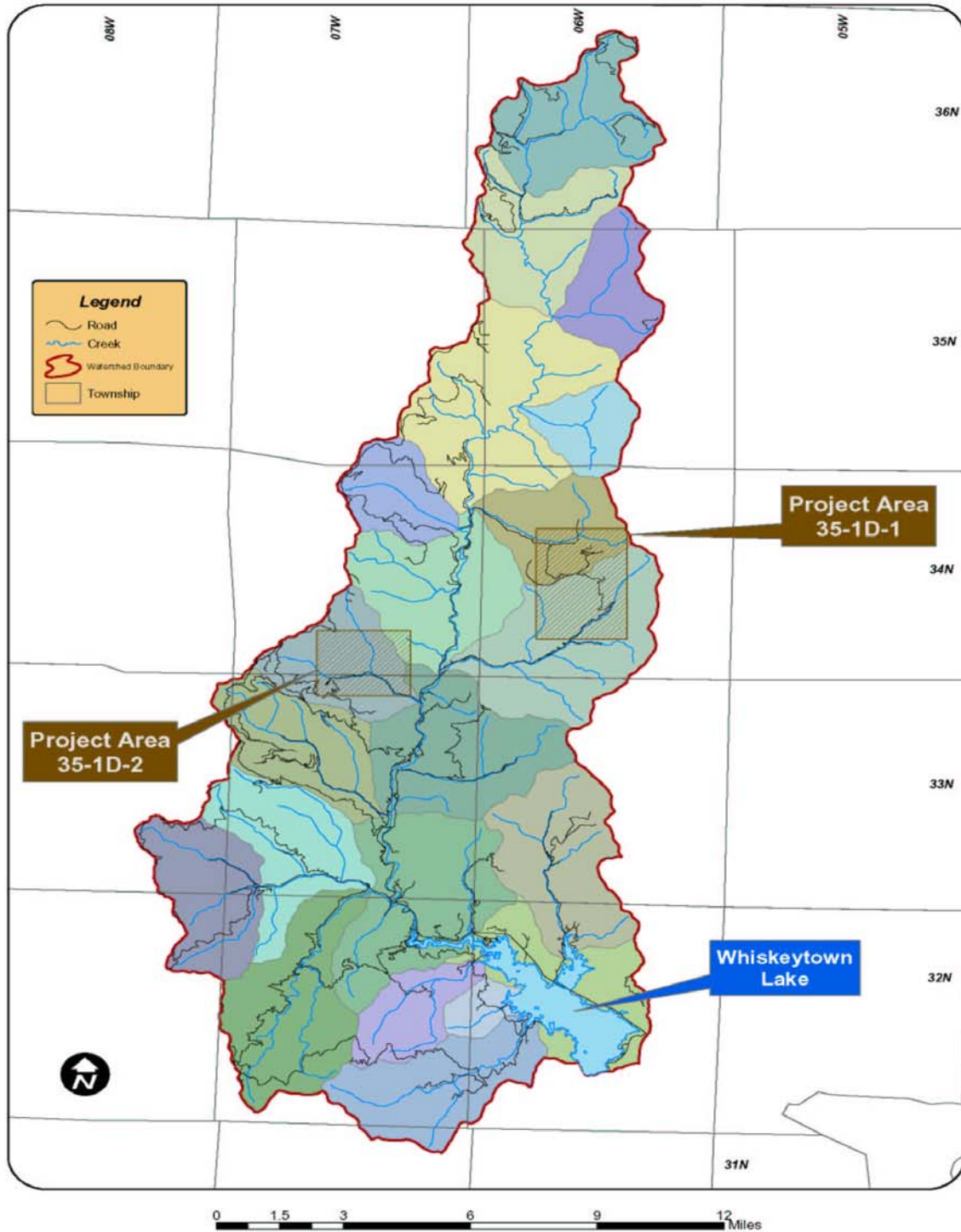
Appendix C shows Road Segment 06A as having a high sediment potential. However, 06A is on private land where post inventory entry permission was not available, and is an isolated location. This site has two drawbacks: geographic location, and landowner cooperation. Therefore, the TAC chose to omit Site 06A and other similar sites from consideration for erosion control at this time.

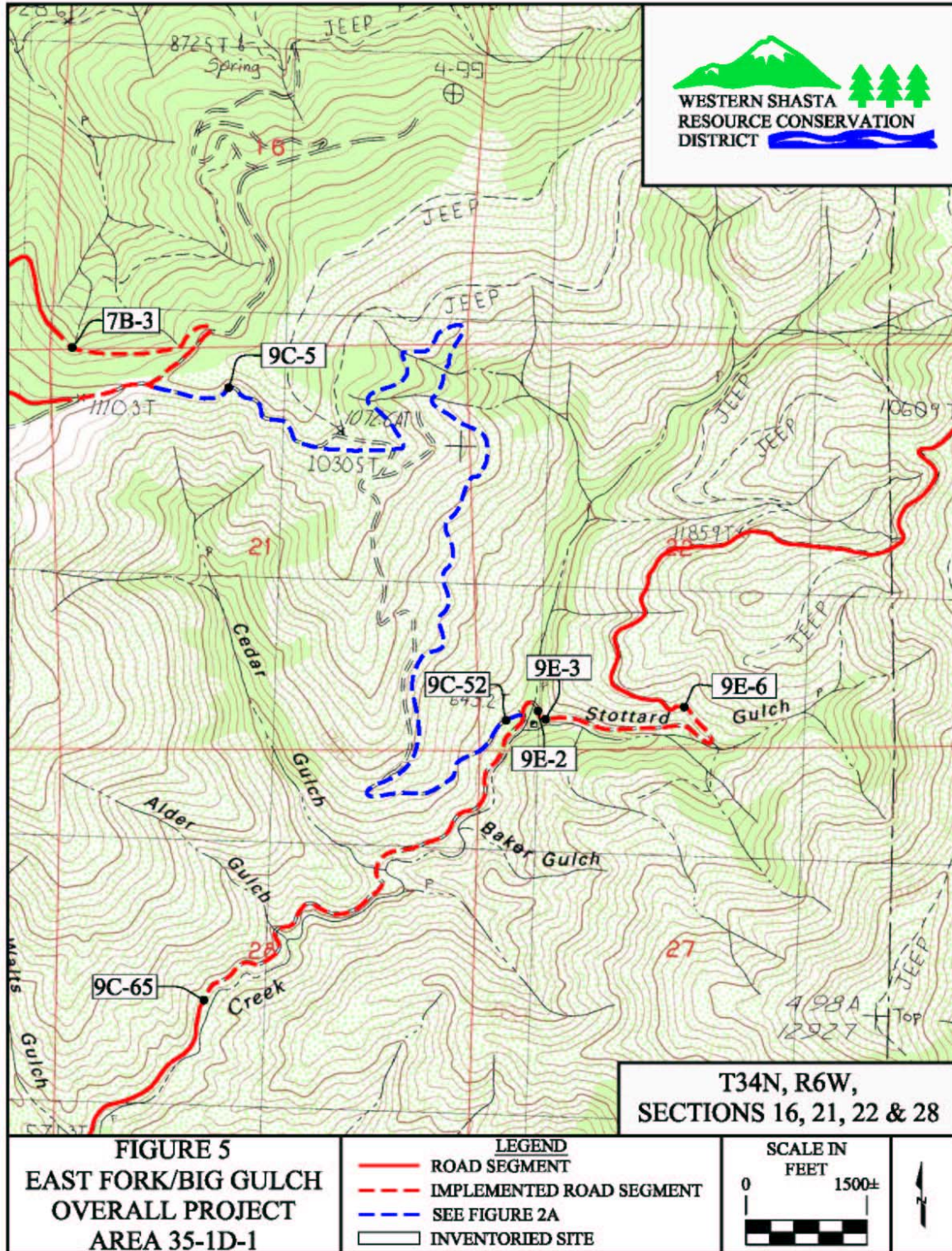
B. Project Selection

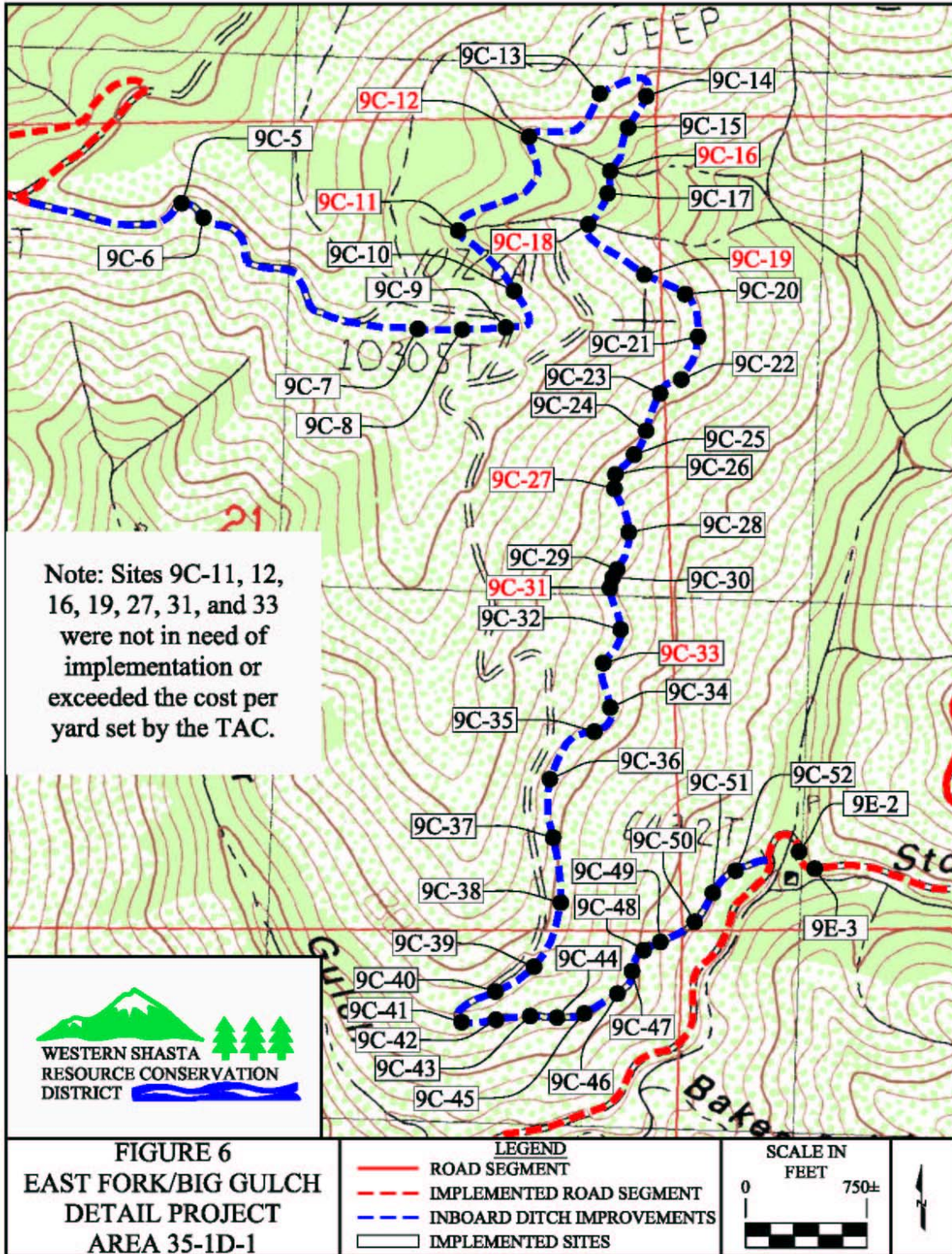
As mentioned above, grant agreement No. 99-N16 included funds for priority project implementation. Two key sites were chosen by the TAC. The first site, Project 35-1D1, the TAC selected road segments in the East Fork, and Big Gulch subwatersheds for the following reasons: (a) the results of the query, Appendix C, (b) high public access and visibility, and (c) erosion control measures constructed in this location would have direct benefit to water quality in the East Fork of Clear Creek. Economy of construction and design engineering dictated treating one high sediment site from Appendix C, and combining it with treatment of the 36 lesser sites on the road segment (see Figures 4, 5 and 6). The benefits derived from installing erosion control at site 07B-3 (See Figure #5) and treating the inboard ditch connecting the 36 (Sites 9C-5 to 9C-52, see Figure #6) crossings on the remaining segment of road, are greater than the benefits to be derived from treating other high sediment yielding sites. Once the TAC approved this segment of road for construction, WSRCD then made a request to the Natural Resources Conservation Service (NRCS) for engineering and design assistance for the complete erosion control project. The NRCS engineer visited the area with one of the inventorying staff prior to beginning the design process. Annual erosion was reviewed and taken into consideration in the design process at this time, and out sloping of a portion of the road surface was added to the project design as a cost-effective measure to ameliorate a portion of the annual erosion.

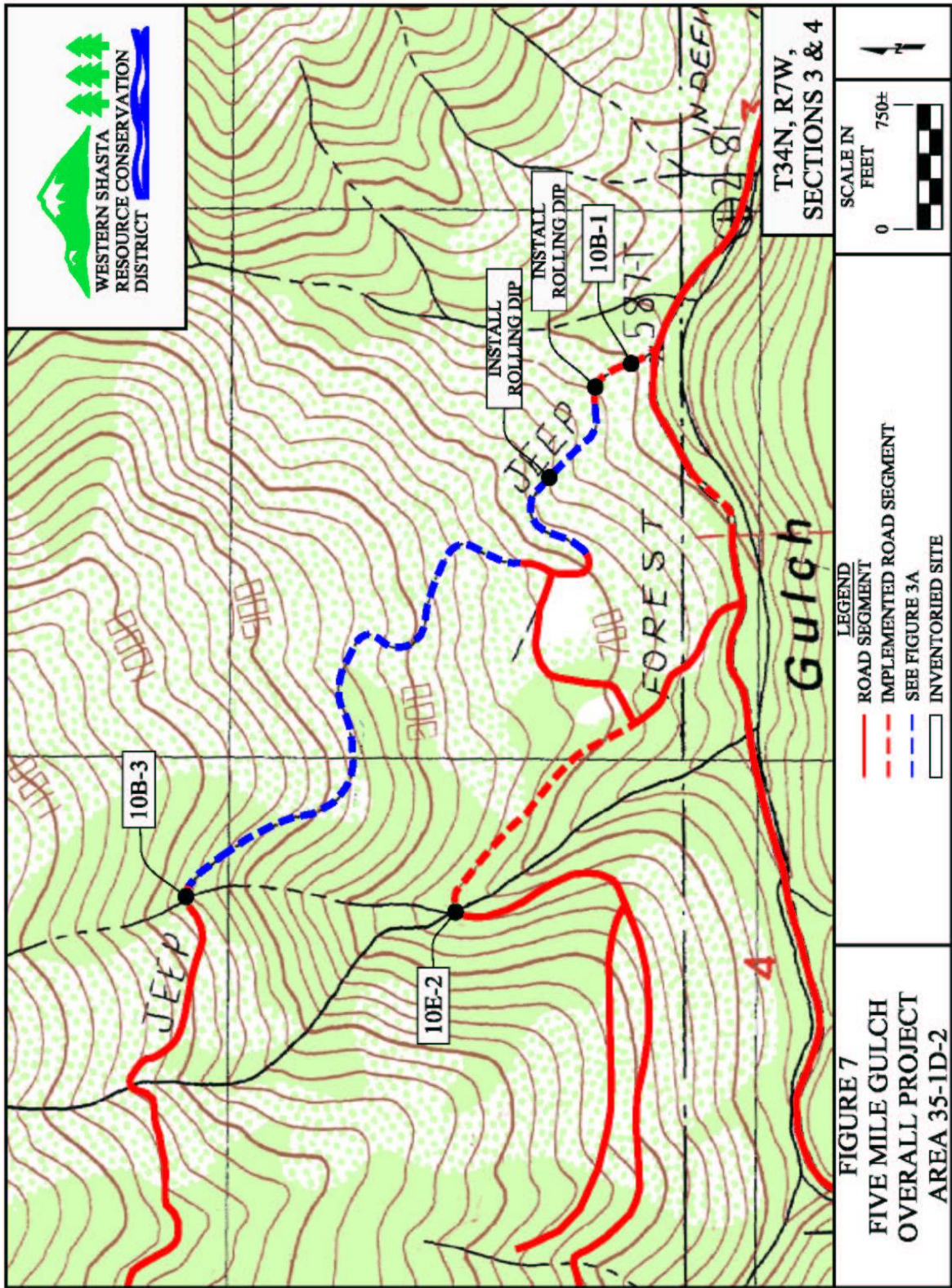
Erosion Project Area Locations

Figure 4









C. Project Implementation

1) East Fork and Big Gulch: Erosion control practices consisted of culvert replacements and improvements, inboard ditch improvements, out sloping a section of road segment, and installing several rolling dips with over the side flumes. The total cost of implementation and improvements was \$36,794.00 for all of the East Fork and Big Gulch road segments. Economic benefits are an estimated cost per cubic yard saved equaling \$7.40 for the "lesser event," and \$6.30 for the "big event." These erosion control practices addressed road segments and Site 07B-3, which was identified from the 200 yards or more query (Appendix C).

2) Five Mile Gulch: Upon completion of the construction in East Fork and Big Gulch, the WSRCD received a request from a private landowner in Five Mile Gulch to participate in the implementation phase of sites inventoried in that subwatershed (see Figures 4, 7 and 8). The TAC agreed that erosion control was necessary and beneficial because erosion control treatment would have a beneficial effect on the entire Five Mile Gulch subwatershed, which flows directly into Clear Creek. The inventoried area contained sites on road segments and Site 10B-3 had also met the 200 yards of sediment requirements set by the TAC and is presented in Appendix C. The selection of the major site combined with the treatment of lesser erosion sites and annual erosion led to a greater favorable impact on the water quality of the area than if two larger sites, farther apart, had been selected.

The WSRCD again relied on the NRCS for their engineering assistance, and a method of implementation was designed. Annual erosion was reviewed and taken into consideration in the design process at the time.

Erosion control practices consisted of, reestablishing rolling dips, installing new rolling dips, out sloping a section of road segment, installing a rocked crossing, and rocking a section of road segment. The total cost for implementation: \$13,750.00 for an estimated cost per cubic yard saved equaling \$8.79 for the "lesser event," and \$5.75 for the "big event." These erosion control practices addressed road segment 10B-3, which was identified in Appendix C. Annual erosion was addressed when it was felt to be beneficial to the resource, and cost effective.

Sites addressed in these erosion control projects appear in Figures 5, 6, 7, and 8.

Recommendations

Inventory data shows the largest contributor of sediment to the streams is fill material from stream crossings associated with road systems. Crossings, with or without culverts, include large amounts of fill material needed to construct a functioning road system. Intensity of rainfall in isolated areas and gradient of the terrain, contribute to increased likelihood of fill failures attributable to road construction.

It is recommended that the agencies and private landowners of road systems intersecting a watercourse maintain or re-construct the road system to accommodate at least a "“lesser event” storm. This may require upgrading to larger culverts, and/or proper placement of the existing culverts.

To ensure continued function of culverts and other crossings, it is recommended an event-driven strategic plan for road maintenance be put into place by all the cooperators in the road system. Many of the roads in East Fork/Big Gulch are owned cooperatively by multiple agencies and landowners. All cooperators of these co-op roads should share the cost of carrying out a maintenance plan, which should be devised by all members of the cooperative.

One method to minimize maintenance costs is to replace culverts with rocked crossings wherever possible. In addition, the landowner may consider decommissioning or closing a road. This can be done on a permanent or temporary basis, and can consist of pulling the fill material away from the watercourse and placing it at a secure location where chance of erosion is greatly reduced.

The TAC determined that the road segments identified in Appendix C are still in need of erosion control treatment. These remaining road segments may be addressed using U.S. Fish and Wildlife Service Jobs-In-The-Woods funds if willing private landowners are found. Some of the road segments in Appendix C are not on private land. These sites will need future funding for the installation of erosion control measures on those road segments. The TAC also determined additional funding to expand the inventory area would be helpful, as a significant portion of the watershed remains to be inventoried.

The TAC encourages WSRCD to seek grant funding to complete the recommended tasks listed in Appendix D.

Funding Sources:

Table 2, Potential Funding Sources, lists programs available from various sources for funding assistance for erosion control projects. Grant funding is also available from various sources, and will be pursued as the opportunity arises.

TABLE 1
Upper Clear Creek Watershed
Inventory Results
Event Size

FEATURE	SITES INVENTORIED	LESSER EVENT				BIG EVENT			
		HIGH	MED.	LOW	NONE	HIGH	MED.	LOW	NONE
CUTBANK	10	0	0	1	9	1	0	1	8
FILLSLOPE	361	10	73	157	121	76	101	171	13
LANDING	24	1	1	2	20	4	3	16	1
ROAD SURFACE	13	2	5	5	1	4	8	1	0
STREAM CROSSING	82	17	15	25	25	42	18	20	2
SWALE	34	2	2	10	20	4	17	12	1
OTHER	7	0	3	3	1	4	2	1	0
TOTALS	531	32	99	203	197	135	149	222	25
SEDIMENT YIELD		9,235	20,405	21,945	0	46,625	28,255	36,437	0
SEDIMENT TOTALS		51,585 cu. yd.				111,317 cu. yd.			

Note: sediment yield and sediment totals are represented in cubic yards.

Table 2
POTENTIAL FUNDING SOURCES

The following table (Table 2) of cost share programs was provided by the University of California, Cooperative Extension Service (UCCE).

TABLE 2 – FUNDING SOURCES AND COST SHARE PROGRAMS

Program	Goals	Services	Will Fund	Agency	Who	Limitations
Emergency Watershed Protection	Helps safeguard people and property following natural disasters.	Technical and financial assistance	Up to 75%	NRCS	Public agencies, non-profits, community groups	25% cost share. Must obtain necessary permits
Environmental Quality Incentives Program	To address significant natural resource needs and objectives	Cost sharing, technical and educational assistance	Up to 75% set by local working group	NRCS, FSA	Agricultural producers having significant natural resource needs	Approved practices up to \$10,000 per producer per year. Must have Conservation Plan approved by RCD.
Forest Stewardship Program	Assist California communities to more actively manage their watershed resources, to keep forests and associated resources productive and healthy	Technical, educational and financial assistance	Cost share up to \$50,000. 100% match is required.	CDF	RCDs, RC&Ds, special districts, Indian tribes, and community non-profit organizations.	Projects that involve activities that may lead to changes in the environment are required to comply with CEQA. Projects must be on NIPF land & address one of the major categories: pre-fire fuels mgmt, forest & woodland health, water quality, or wildlife & fisheries habitat.
California Forest Improvement Program	Forestry, watershed and riparian protection and enhancement	Reforestation, site prep, land conservation, and fish & wildlife habitat improvements	75% up to \$30,000 per contract, rehab after natural disaster up to 90%	CDF	Landowners	Plan (can be cost shared) required, 20-50,000 acres of forestland
Forest Land Enhancement Program	Encourage sustainable forest management on non-industrial forest land	Natural resource professionals work with individuals to develop multi-resource management plans	Up to 75% of the costs may be reimbursed to a maximum of \$50,000 per year	CDF	Landowners and tribes	Private non-industrial landowners owning between 20 and 1,000 acres. Cannot earn the majority of income from timber manufacture

Appendix A

Upper Clear Creek Watershed Road/Culvert Inventory Data Sheet 02-26-02

Road Segment: _____ Problem number: _____
 GPS: E _____ N _____ Err+/- _____
 Date mapped: _____ By: _____
 Land Ownership: _____
 Roll of film # (if used): _____ Frame number (read off of camera): _____

I. Access Information Same as previous sheet

Road condition: Maintained/driveable Unmaintained/driveable Undriveable Abandoned Trail
 Access: 2WD 4WD Equipment only Walk only

Access Comments:

II. Erosion Site Data

Type of soil: DG Non DG

A. ROAD _____% Insloped Outsloped Crowned Flat w/Berm Other _____

Type: Skid Haul Access Maintained _____
 Surfaced _____

1. Feature: Cut Bank Road Surface Fill Slope Stream Crossing Landing Swale
2. Cause: Inboard Ditch Road Drainage Stream Diversion Stream Channel Mass Movement
 No Culvert Culvert (see below) Swale Other _____

Channel Gradient: _____ %

Culvert Size: _____ Culvert Length: _____ In Channel Road drainage relief Abandoned
 Headwall measurement (top of cmp to top of road): _____ inches

Culvert Condition: Good Fair Poor Existing Culvert is: Working Failed Other _____

Evidence of Culvert Overtopping: Yes No Evidence of Past Diversion: Yes No

Culvert Inlet Control: Rocked Flared On Grade None Plugged Other: _____

Culvert Outlet Control: Rocked Shotgunned On Grade None Plugged Other: _____

Stored Sediment Quantities Estimated: Inlet: _____ yds³ Outlet: _____ yds³

Plugging potential: High Medium Low

Diversion Potential: >50' <50' None Crossing Volume: _____ yds³

$$\text{Length}^2 \times 3.14 \times \text{Width of road} \div 648 = \text{yds}^3$$

Receiving feature of diversion: Adjacent cross drain Adjacent stream crossing Hill slope Fill slope
 Not Applicable Other _____

B. CHANNEL

1. Feature: Head Cut Stream Bank Other _____

2. Cause: Road Construction Mining Logging

Other _____

C. Hillslope

1. Feature: Gully Mass Movement Other _____

2. Cause: Road Drainage Other _____

Comments

III. Future Erosion Potential

A. Gully Method: $Length \times Width \times Depth \div 27 = yds^3$

B. Prism Method: $Length \times Width \times Depth \div 54 = yds^3$

C. Conical Volume Method: $1) Length^2 \times 3.14 \times Width \text{ of road} \div 648 = yds^3$

(LESSER EVENT)

(BIG EVENT)



Comments on future erosion:

IV. Sediment Delivery Data:

A. Estimated potential for future erosion (Lesser event): High Medium Low None

B. Estimated potential for future erosion (Big event): High Medium Low None

C. Estimated distance from main sediment contributor or to substantial channel which sediment will enter (ft.)
_____ (enter zero if in channel)

D. Will sediment enter the channel Yes No

E. Total sediment (Lesser event) _____ yds^3

F. Total sediment (Big Event) _____ yds^3

G. Attention recommended 1 2 3 (1 needing immediate attention)

V. Treatment Data (use numerical value one through three, one being the preferred):

A. Treat Class: 1 2 3 Equipment 1 2 3 Hand Work Only 1 2 3 Combination

B. Possible Treatment: 1 2 3 Excavation 1 2 3 Road Drainage 1 2 3 Head Cut 1 2 3 Grade Stabilization
1 2 3 Slope Stabilization 1 2 3 Stream Crossing 1 2 3 Other _____

C. Description: 1 2 3 Crossing 1 2 3 Road 1 2 3 Stream bank 1 2 3 Sediment basin 1 2 3 Sediment removal
1 2 3 Pullback 1 2 3 Culvert maintenance 1 2 3 Water bar 1 2 3 Rolling dip 1 2 3 Out slope
1 2 3 Rock surface 1 2 3 Rock crossing 1 2 3 New culvert w/overflow 1 2 3 Culvert overflow
1 2 3 Outlet protection 1 2 3 Decommission 1 2 3 Road Closure 1 2 3 Other _____

Comments on Treatment

VI. SKETCH w/north arrow & labels:

Appendix B Abbreviation Key

Seg	=	Road Segment
Prb	=	Problem Number
GPS_E	=	Eastern GPS coordinates in UTM (NAD27)
Gps_N	=	Northern GPS coordinates in UTM (NAD27)
Owner	=	Landowner
Access	=	Site access type
Soil	=	Soil type
Location	=	i.e.. Road, Channel, Hill slope
Rd Grd	=	Road grade in percent of slope
Road Construction	=	i.e.. Flat, Out sloped, Crowned, etc.
Rd Tp	=	Primary purpose of road
Feature	=	What is eroding
Cause	=	Primary cause of erosion
Ch Grd	=	Channel grade in percent of slope
CMP Sz	=	Diameter of CMP (corrugated metal pipe) or culvert
CMP Lng	=	Length of culvert
CMP Location	=	Placement of culvert, i.e., in channel, road drainage, etc
Head Wall	=	Top of culvert to top of road
CMP Cn	=	Condition of culvert
CMP is	=	Is the culvert working, failed, plugged, etc?
CMP OT	=	Is there evidence of past plugging and overtopping of the culvert?
CMP PD	=	Is there evidence of past plugging causing water to divert?
CMP In Cntrl	=	Is culvert inlet on grade, rocked, plugged, etc?
CMP Out Cntrl	=	Is culvert outlet on grade, rocked, plugged, etc?
Plug Pt	=	Culvert plugging potential, high, medium, or low?
Dv Pot	=	In the event the culvert plugs what is the diversion potential?
Xing Vlm	=	Estimated cubic yards of fill material in crossing
Receiving Feature	=	In the event the culvert plugs and diverts where will the water run to?
Ft to Chnl	=	Estimated distance from erosion feature to active stream channel
Enter Chnl	=	Will the sediment enter the channel?
<Sed Yld	=	Estimated cubic yards of erosion for lesser event
<Sed Pot	=	Estimated potential of erosion for lesser event
>Sed Yld	=	Estimated cubic yards of erosion for bigger event
>Sed Pot	=	Estimated potential of erosion for bigger event
Immed Att	=	Is immediate attention needed? 1 is immediate, 3 is not immediate

Appendix C
Upper Clear Creek Erosion
Sites Priority

Seg	Prb	Date	Xing Vol	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	* Immed Att
06A	3	10/05/99	2500	2500	High	2500	High	1
16CLN	26	04/19/01	0	1900	Medium	1900	High	1
08A	43	10/04/99	0	1500	Medium	1500	High	1
11A	1	03/06/01	0	1400	Low	1400	Medium	2
16CLN	28	04/19/01	1240	1240	Medium	1240	High	1
06K	2	11/11/99	1180	1120	High	1120	High	1
06G	3	11/08/99	1000	1000	Low	1000	Medium	2
15F	5	03/14/02	0	1000	Medium	2000	High	1
06G	5	11/09/99	700	900	Medium	900	High	1
16CLN	23	04/19/01	872	900	Medium	900	High	1
08A	42	10/04/99	820	850	Low	850	High	2
07B1A	1	10/12/00	0	800	Medium	800	High	1
08A	58	09/29/99	775	800	Medium	800	High	1
06C	9	10/25/99	0	780	Low	780	Medium	2
16CLN	1	04/19/01	196	650	Medium	650	High	1
16CLN	8	04/19/01	0	550	Medium	740	High	1
06H	1	11/11/99	525	525	High	525	High	2
15G	60	03/29/02	0	520	High	670	High	1
08A	39	10/04/99	470	500	Low	500	High	2
15SS	43	02/26/02	712	500	Medium	700	High	2
16CLN	25	04/19/01	0	475	Low	475	Medium	2
08A	36	10/05/99	430	465	High	465	High	2
06K	3	11/11/99	440	460	Low	460	Medium	3
08A	49	09/28/99	350	450	High	450	High	1
15G	41	03/27/02	0	450	Medium	830	High	1
08A	51	10/04/99	365	400	Medium	400	High	2
15A1	5	02/06/02	393	400	Low	400	High	1
15G	2	03/19/02	409	400	High	460	High	1
16CLN	6	04/19/01	61	400	High	500	High	1
10A	15	05/08/02	270	395	Low	520	Low	3
06D	2	11/01/99	160	385	Medium	385	High	1
06G3	4	11/09/99	0	365	Low	725	Low	3
09C	12	12/19/00	360	360	Low	360	Low	3
08A	35	10/05/99	300	355	High	425	High	2
06D	4	11/01/99	170	300	Low	485	Medium	2
07B	3	10/11/00	0	300	Medium	300	High	1
08A	64	09/29/99	300	300	Low	300	High	2
09C	16	12/20/00	300	300	Low	300	Low	3
09C	58	02/21/01	303	300	Low	300	Low	2
09E	1	03/02/01	314	300	Low	300	Low	2
15F	4	03/14/02	712	300	Low	700	Medium	2
15G	49	03/29/02	293	300	Low	300	Medium	2
08A	31	10/05/99	220	290	High	290	High	2
08A6	1	10/06/99	0	275	Medium	275	High	1
16CLN	4	04/19/01	148	270	Low	360	Medium	2
06D	6	11/01/99	0	265	High	265	High	1

Appendix C Continued

Seg	Prb	Date	Xing Vol	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	* Immed Att
19SS	10	02/19/02	242	250	Low	250	Medium	2
06G	4	11/09/99	240	245	Low	245	Medium	2
08A	33	10/05/99	20	240	Medium	240	Medium	1
08A	38	10/04/99	0	240	High	450	High	2
10A	21	05/08/02	0	240	Medium	360	High	1
15G	3	03/19/02	237	240	Medium	240	High	1
15G	34	03/27/02	155	240	Medium	300	High	2
08E1	9	09/30/99	180	225	High	225	High	1
06C	6	10/20/99	155	220	Medium	220	High	1
08C	3	10/06/99	200	220	Low	220	Medium	3
10B	3	04/29/02	140	215	Medium	325	High	1
06D1	1	10/25/99	170	210	Medium	320	High	2
07B1A	2	10/02/00	0	200	Low	200	High	2
10A	19	05/08/02	196	200	Low	200	Medium	2
10A	20	05/08/02	0	200	Medium	350	High	1
15G	56	03/29/02	87	200	High	200	High	1
15G	57	03/29/02	196	200	Medium	200	High	1
15SS	38	02/26/02	712	200	Medium	350	High	2
16CLN	2	04/19/01	55	200	High	200	High	1
16CLN	7	04/19/01	194	200	Low	200	Low	3
16CLN	10	04/19/01	194	200	Medium	200	High	2
16CLN	19	04/19/01	194	200	Medium	200	High	2
16CLN	21	04/19/01	194	200	Medium	200	High	2
16CLN	24	04/19/01	194	200	Medium	200	High	1

- * Immediate Attention
 1= Likely to fail during normal storm event
 2= Failure likely in 'lesser' to 'bigger' storm event
 3= Failure less likely in any storm event

Appendix D
Summary of
Recommended Future Projects

<u>Ranking</u>	<u>Ownership</u>	<u>Sediment Yield (cubic yards)</u>	<u>Estimated Repair Cost \$</u>
1.	USDA Forest Service	2,500	15,100
2.	USDI Bureau of Land Management	1,900	10,465
3.	Private	1,500	6,820
4.	USDI Bureau of Land Management (This site completed)	1,400	unavailable
5.	USDI Bureau of Land Management	1,240	16,600
6.	Private	1,120	13,425
7.	Private	1,000	6,000
8.	USDI National Park Service	900	15,000
9.	Private	900	7,300
10.	USDI Bureau of Land Management	900	13,570
11.	Private	850	6,025
	Totals	8,410	110,305

Appendix D Recommended Future Projects

Ranking: 1

Road segment: 06A

Landownership: United States Forest Service

Problem: 03 ***Sediment yield:** 2,500 cubic yards.

Description:

The location consists of an existing culvert that shows past damage to its inlet. The culvert outlet was not found, and appears to be plugged because of mass wasting of the fill slope. This is likely caused by the fill material becoming saturated during storm events.

Proposed Solution:

Remove and replace existing 18" culvert with a 36" or larger culvert designed to carry the typical storm event. New culvert to be installed on grade with natural channel and will have a flared inlet or slotted riser. The installation of a critical rolling dip on the road surface just below the culvert crossing will greatly reduce future diversion of the channel in the event that the culvert should plug again.

Estimated cost: \$15,100.00



The photo to the left shows the inlet of the culvert. You can notice a piece of the inlet in the lower right hand corner that was cut off and discarded.



The photo to the right shows the projected outlet of the culvert. Notice that there is no visible culvert at the outlet. Water is seeping out through the material that has plugged the outlet in two locations indicating a possible separation of joint in the culvert approximately twenty feet up from projected outlet. The proposed solution is to remove and replace the existing culvert with a larger culvert and an improved inlet.

* Sediment yield is for the 'lesser event' storm event.

Road segment and Problem can also be found within the first 11 entries in Appendix C

Appendix D Continued

Ranking: 2

Road segment: 16CLN

Landownership: Bureau of Land Management

Problem: 26 *Sediment yield: 1,900 cubic yards.

Description:

The site consists of mass wasting at the cut bank of the road. Because of the large amount of mass wasting from the cut bank the entire road prism has failed resulting in a very unstable cut bank and road surface. The mass wasting at this site occurs on a regular basis as the result of the cut bank becoming to wet to support its own weight. The landowner has indicated that yearly failure generally occurs at this site.

Proposed Solution:

One solution to the problem at this site would be to relocate this segment of road to a stable area and decommission the existing road segment. Because of the high cost to relocate the road and decommission the existing road (approximately \$100,000.00) an alternative practice would be routine maintenance on a storm event basis to insure that road drainage does not become impaired from the mass wasting causing an even larger failure.

Estimated cost: \$10,465.00

- Note: This is an estimated cost for one maintenance practice. Estimated cost would elevate, as more maintenance is required per storm event.



Photo shows the mass wasting at the cut bank that causes regular road failure. Routine maintenance to insure that the mass wasting does not affect road drainage is imperative to reduce the likelihood of a large failure.

* Sediment yield is for the lesser event/storm event

Appendix D Continued

Ranking: 3

Road segment: 8A

Landownership: Private

Problem: 43 *Sediment yield: 1,500 cubic yards.

Description:

Appendix D Continued

Ranking: 4

Road segment: 11A

Landownership: Bureau of Land Management

Problem: 1 ***Sediment yield:** 1,400 cubic yards.

Description:

The site was the result of relocating an existing road segment to reduce the grade of the road to make travel easier. One of the problems that occurred in the construction was

Ranking: 5

Road segment: 16CLN

Landownership: Bureau of Land Management

Problem: 28 ***Sediment yield:** 1,240 cubic yards.

Description:

Log landing at the edge of the road shows signs of erosion from road drainage and an existing culvert plugging and overtopping causing a gully to form in the fill material used

Appendix D Continued

Ranking: 6

Landownership: Private

Road segment: 6K

Problem: 2 ***Sediment yield:** 1,120 cubic yards.

Description:

Logs placed in the fill slope to widen corner to accommodate logging trucks have decayed, causing a significant failure in the fill slope. In addition to the logs that decayed, woody debris appears to have plugged the inlet of the culvert, which eroded

Appendix D Continued

Ranking: 7

Landownership: Private

Road segment: 6G

Problem: 3 ***Sediment yield:** 1,000 cubic yards.

Description:

This site consists of a culvert having a large amount of fill material to construct the road prism. Because of past logging that has been done in the area the possibility of the culvert plugging from woody debris in the channel is likely.

Appendix D Continued

Ranking: 8

Road segment: 15F

Landownership: National Parks Service

Problem: 5 ***Sediment yield:** 1,000 cubic yards.

Description:

A large gully has formed in the hill slope from a culvert above. The concentrated flows from the outlet of the culvert are the primary cause of the gully. Water from two small streams that flow during storm events, have been diverted via an inboard ditch to the culvert. In addition to the stream diversions, road drainage also concentrates in the ditch adding to the flows at the outlet of the culvert. Sediment buildup from the gully will have a negative impact on site 15E 4 by elevating the plugging potential of the culvert that is

Appendix D Continued

Ranking: 9

Road segment: 6G

Landownership: Private

Problem: 5 ***Sediment yield:** 900 cubic yards.

Description:

Road drainage has saturated the fill slope causing erosion at the edge of the road. Additionally, woody debris in the stream increases the potential for the culvert to plug and overtop, eroding the fill material used to construct the road.

Proposed Solution:

Install a rolling dip to improve road drainage, and install a flared inlet on the existing

Appendix D Continued

Ranking: 10

Landownership: Bureau of Land Management

Road segment: 16CLN

Problem: 23 ***Sediment yield:** 900 cubic yards.

Description:

Road drainage, and a severely undersized culvert affect the integrity of the cut bank and the road prism. Existing culvert plugs during regular storm events and diverts water via the inboard ditch. A small storm event driven stream channel also diverts into the inboard ditch.

Proposed Solution:

Remove the existing culvert and install two new culverts with flared inlets, one at each

Appendix D Continued

Ranking: 11

Landownership: Private

Road segment: 8A

Problem: 42 ***Sediment yield:** 850 cubic yards.

- Note: This site was added to the top ten sites because the site that was ranked number four had already been addressed by the landowner.

Description:

Large amounts of woody debris in the stream system from past logging have increased the likelihood that this culvert will plug. At the time of the inventory, the culvert was partially plugged with debris. In the event the culvert plugs, water will overtop and erode the fill material used to construct the road.

Proposed Solution:

Appendix E

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
06A	1	10/05/99	0	0	USFS	2WD	Non-DG	Road	7	Flat	Haul
06A	2	10/05/99	0	0	USFS	2WD	Non-DG	Road	5	Flat	Haul
06A	3	10/05/99	530098	4417761	USFS	2WD	Non-DG	Road	5	Outsloped with Berm	Haul
06A	4	10/05/99	0	0	USFS	2WD	Non-DG	Road	6	Outsloped with Berm	Haul
06A	5	10/05/99	0	0	USFS	2WD	Non-DG	Road	6	Outsloped with Berm	Haul
06A	6	10/05/99	0	0	USFS	2WD	Non-DG	Road	8	Outsloped with Berm	Haul
06A	7	10/05/99	0	0	USFS	2WD	Non-DG	Road	8	Outsloped with Berm	Haul
06A	8	10/05/99	0	0	USFS	2WD	Non-DG	Road	8	Outsloped with Berm	Haul
06A	9	10/05/99	0	0	USFS	2WD	Non-DG	Road	4	Outsloped	Haul
06A	10	10/05/99	0	0	USFS	2WD	Non-DG	Road	4	Outsloped with Berm	Haul

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
06A	1	Stream Crossing	Culvert	35	18	50	In Channel	50	Good
06A	2	Fill Slope	FLUME	N/A	N/A	N/A	N/A	N/A	N/A
06A	3	Stream Crossing	Culvert	60	18	N/A	In Channel	156	Poor
06A	4	Fill Slope	FLUME	N/A	N/A	N/A	N/A	N/A	N/A
06A	5	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
06A	6	Cut Bank	Culvert	N/A	18	40	Abandon	N/A	N/A
06A	7	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
06A	8	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
06A	9	Cut Bank	Culvert	N/A	N/A	N/A	Abandon	N/A	N/A
06A	10	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
06A	11	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
06A	1	Hill Slope	0	Yes	0	None	20	Low	3
06A	2	N/A	100	Yes	0	None	30	Low	3
06A	3	Hill Slope	0	Yes	2500	High	2500	High	1
06A	4	N/A	1500	Yes	0	None	15	Medium	3
06A	5	N/A	0	Yes	75	Medium	175	High	2
06A	6	N/A	0	No	0	None	0	None	3
06A	7	N/A	400	Yes	0	None	30	Low	3
06A	8	N/A	200	Yes	0	None	35	Medium	3
06A	9	N/A	0	No	0	None	0	None	3
06A	10	N/A	200	Yes	0	None	15	Low	3
06A	11	N/A	0	Yes	0	None	15	Medium	3
06A	12	N/A	0	No	0	None	0	None	3
06A	13	N/A	200	Yes	0	None	20	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
06D	4	11/01/99	0	0	USFS	Walking Only	Non-DG	Road	11	Flat with Berm	Haul
06D	5	11/01/99	0	0	USFS	Walking Only	Non-DG	Road	4	Flat	Haul
06D	6	11/01/99	0	0	USFS	Walking Only	Non-DG	Road	5	Flat	Haul
06D	7	11/01/99	0	0	USFS	Walking Only	Non-DG	Road	5	Flat	Haul
06D1	1	10/25/99	0	0	USFS	2WD	Non-DG	Road	6	Flat with Berm	Haul
06D1	2	10/25/99	0	0	USFS	2WD	Non-DG	Road	8	Outsloped	Haul
06E	4	11/02/99	0	0	USFS	2WD	Non-DG	Road	11	Insloped	Haul
06E	5	11/02/99	0	0	PRIVATE	2WD	Non-DG	Road	8	Crowned	Haul
06E	6	11/02/99	0	0	PRIVATE	2WD	Non-DG	Road	10	Flat	Haul
06E	7	11/02/99	0	0	PRIVATE	2WD	Non-DG	Road	4	Outsloped	Haul
06E	8	11/02/99	0	0	PRIVATE	2WD	Non-DG	Road	22	Flat	Haul
06E2	1	11/04/99	0	0	PRIVATE	4WD	Non-DG	Road	12	Flat with Berm	Haul
06E2	2	11/04/99	0	0	PRIVATE	4WD	Non-DG	Road	0	Outsloped	Haul
06E2	3	11/04/99	0	0	PRIVATE	4WD	Non-DG	Road	0	Flat with Berm	Haul

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
06D	4	Stream Crossing	Culvert	30	18	60	In Channel	0	Poor
06D	5	Stream Crossing	Stream Channel	30	N/A	N/A	N/A	N/A	N/A
06D	6	Stream Crossing	Stream Channel	50	N/A	N/A	N/A	N/A	N/A
06D	7	Stream Crossing	Stream Channel	40	N/A	N/A	N/A	N/A	N/A
06D1	1	Stream Crossing	Culvert	40	24	80	In Channel	8	Good
06D1	2	Stream Crossing	Culvert	25	18	40	In Channel	3	Good
06E	4	Swale	Swale	35	N/A	N/A	N/A	N/A	N/A
06E	5	Swale	Swale	35	N/A	N/A	N/A	N/A	N/A
06E	6	Swale	Swale	20	N/A	N/A	N/A	N/A	N/A
06E	7	Stream Crossing	Culvert	20	18	30	In Channel	11	Fair
06E	8	Swale	Swale	20	N/A	N/A	N/A	N/A	N/A
06E2	1	Road Surface	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
06E2	2	Swale	Swale	30	N/A	N/A	N/A	N/A	N/A
06E2	3	Swale	Swale	40	N/A	N/A	N/A	N/A	N/A
06E3	1	DAM	DRAFTING POND	N/A	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
06D	4	Failed	Yes	No	Plugged	Shotguned	High	None	170
06D	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06D	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06D	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06D1	1	Working	No	No	On Grade	Shotguned	High	None	170
06D1	2	Working	No	No	On Grade	On Grade	Low	None	60
06E	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E	7	Failed	Yes	No	On Grade	Plugged	High	None	125
06E	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E2	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E2	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E2	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06E3	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06G	1	Working	No	No	On Grade	On Grade	High	None	65

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
06D	4	N/A	0	Yes	300	Low	485	Medium	2
06D	5	N/A	0	Yes	75	High	75	High	2
06D	6	N/A	0	Yes	265	High	265	High	1
06D	7	N/A	0	Yes	60	Low	60	Medium	3
06D1	1	N/A	0	Yes	210	Medium	320	High	2
06D1	2	N/A	0	Yes	0	None	60	Low	3
06E	4	N/A	0	Yes	60	Low	60	Medium	3
06E	5	N/A	0	Yes	20	Low	45	Low	3
06E	6	N/A	100	Yes	0	None	15	Low	3
06E	7	N/A	0	Yes	40	Low	125	Low	3
06E	8	N/A	0	Yes	0	None	65	Medium	3
06E2	1	N/A	20	Yes	25	High	75	High	2
06E2	2	N/A	0	Yes	0	None	90	Low	3
06E2	3	N/A	0	Yes	0	None	35	Low	3
06E3	1	N/A	0	Yes	135	Low	135	Medium	3
06G	1	N/A	0	Yes	65	Low	65	High	2
06G	2	N/A	400	Yes	0	None	260	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
07A	3	09/07/00	537388	4517972	BLM	2WD	Non-DG	Road	3	Flat	Haul
07A	4	09/07/00	537466	4517836	BLM	2WD	Non-DG	Road	8	Outsloped	Haul
07A	5	09/27/00	536948	4516976	BLM	2WD	Non-DG	Road	8	Flat with Berm	Haul
07A	6	09/27/00	536715	4516910	BLM	2WD	Non-DG	Road	6	Insloped with Berm	Haul
07A	7	09/27/00	535828	4517034	BLM	2WD	Non-DG	Road	4	Insloped with Berm	Haul
07A	8	09/27/00	535519	4517229	BLM	2WD	Non-DG	Road	10	Outsloped	Haul
07A	9	09/27/00	535267	4517319	BLM	2WD	Non-DG	Road	6	Insloped with Berm	Haul
07A	10	09/27/00	534820	4517520	BLM	2WD	Non-DG	Road	12	Insloped with Berm	Haul
07A	11	10/09/00	534620	4517691	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
07A	12	10/09/00	534482	4517860	BLM	2WD	Non-DG	Road	4	Insloped with Berm	Haul
07B	1	10/11/00	536696	4516322	BLM	2WD	Non-DG	Road	3	Insloped with Berm	Haul
07B	2	10/11/00	536618	4515791	BLM	2WD	Non-DG	Road	4	Insloped with Berm	Haul
07B	3	10/11/00	537188	4515820	BLM	2WD	Non-DG	Road	7	Flat	Haul
07B1A	1	10/12/00	536138	4516566	BLM	2WD	Non-DG	Hillslope	15	N/A	N/A
07B1A	2	10/02/00	536018	4516756	BLM	2WD	Non-DG	Hillslope	15	N/A	N/A
07B1A	3	12/06/00	535936	4516171	BLM	2WD	Non-DG	Road	4	Outsloped	Skid
07C	1	10/09/00	534788	4517408	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
07C	2	10/10/00	534295	4517237	BLM	2WD	Non-DG	Road	6	Flat	Haul

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
07A	3	Fill Slope	Culvert	N/A	18	20	Spring Relief	2	Poor
07A	4	Fill Slope	Culvert	32	18	40	In Channel	15	Poor
07A	5	Stream Crossing	Culvert	12	72	40	In Channel	46	Good
07A	6	Stream Crossing	Culvert	10	72	40	In Channel	36	Good
07A	7	Stream Crossing	Culvert	8	72	40	In Channel	40	Good
07A	8	Fill Slope	Culvert	42	18	20	In Channel	0	Poor
07A	9	Stream Crossing	Culvert	12	36	40	In Channel	24	Good
07A	10	Stream Crossing	Culvert	28	18	40	In Channel	3	Good
07A	11	Stream Crossing	Culvert	25	18	30	In Channel	15	Good
07A	12	Stream Crossing	Culvert	28	18	unknown	In Channel	12	Fair
07B	1	Stream Crossing	Culvert	18	54	60	In Channel	60	Good
07B	2	Stream Crossing	Culvert	20	42	60	In Channel	72	Good
07B	3	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	1	Mass Movement	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	2	Mass Movement	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	3	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
07C	1	Stream Crossing	Culvert	35	18	60	In Channel	8	Poor
07C	2	Fill Slope	Culvert	N/A	24	60	Road Draining Relief	10	Good
07C	3	Fill Slope	Culvert	18	24	20	Channel Relief	24	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
07A	3	Plugging	No	No	Plugged	None	Medium	None	6
07A	4	Failed	Yes	Yes	Plugged	Eroded	High	>50	40
07A	5	Working	No	No	Flared On Grade	On Grade	Medium	None	220
07A	6	Working	No	No	Flared On Grade	On Grade	Low	None	175
07A	7	Working	No	No	Flared On Grade	On Grade	Low	None	170
07A	8	Failed	Yes	Yes	Plugged	Plugged	High	>50	10
07A	9	Working	No	No	On Grade	On Grade	Low	None	60
07A	10	Working	No	No	None	None	High	>50	30
07A	11	Working	No	No	None	None	High	>50	75
07A	12	Working	No	No	None	None	High	None	75
07B	1	Working	No	No	Flared On Grade	On Grade	Low	None	250
07B	2	Working	No	No	Flared On Grade	On Grade	Low	None	400
07B	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
07B1A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
07C	1	Working	No	No	CRUSHED	Plugged	High	>50	110
07C	2	Working	No	No	None	Shotguned	Low	>50	20
07C	3	Working	No	No	Drop Inlet	Shotguned	Medium	<50	5
07C	4	Working	No	No	None	None	Low	>50	10

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
07A	3	N/A	0	Yes	0	None	15	Low	3
07A	4	Fill Slope	0	Yes	100	High	100	High	2
07A	5	N/A	0	Yes	0	None	200	Medium	3
07A	6	N/A	0	Yes	0	None	175	Low	3
07A	7	N/A	0	Yes	0	None	170	Low	3
07A	8	Fill Slope	0	Yes	0	None	25	Low	3
07A	9	N/A	0	Yes	0	None	60	Low	3
07A	10	Fill Slope	0	Yes	0	None	200	Medium	3
07A	11	Adjacent Stream Crossing	0	Yes	0	None	140	High	3
07A	12	N/A	0	Yes	0	None	75	High	3
07B	1	N/A	0	Yes	0	None	0	None	3
07B	2	N/A	0	Yes	0	None	0	None	3
07B	3	N/A	0	Yes	300	Medium	300	High	1
07B1A	1	N/A	500	Yes	800	Medium	800	High	1
07B1A	2	N/A	500	Yes	200	Low	200	High	2
07B1A	3	N/A	400	Yes	50	Low	50	Medium	3
07C	1	Fill Slope	0	Yes	0	None	150	High	3
07C	2	Fill Slope			0	None	0	None	3
07C	3	Fill Slope			0	None	0	None	3
07C	4	Hill Slope	500	Yes	0	None	15	Low	3
07C1	1	N/A			0	None	0	None	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
08A	33	10/05/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Outsloped with Berm	Haul
08A	34	10/05/99	0	0	PRIVATE	2WD	Non-DG	Road	9	Flat	Haul
08A	35	10/05/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Outsloped with Berm	Haul
08A	36	10/05/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Flat with Berm	Haul
08A	37	10/05/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Flat with Berm	Haul
08A	38	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Flat	Haul
08A	39	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Flat with Berm	Haul
08A	40	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Flat with Berm	Haul
08A	41	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Outsloped	Haul
08A	42	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Outsloped with Berm	Haul
08A	43	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	3	Flat with Berm	Haul
08A	44	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	1	Outsloped	Haul
08A	45	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	1	Flat	Haul
08A	46	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	5	Outsloped with Berm	Haul
08A	47	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	5	Flat with Berm	Haul
08A	48	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Outsloped	Haul
08A	49	09/28/99	529579	4515689	PRIVATE	2WD	Non-DG	Road	2	Flat with Berm	Haul
08A	50	10/04/99	529725	4515688	PRIVATE	2WD	Non-DG	Road	4	Flat	Haul
08A	51	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Flat with Berm	Haul
08A	52	09/30/99	0	0	PRIVATE	2WD	Non-DG	Road	2	Flat	Haul
08A	53	09/28/99	529956	4515037	PRIVATE	2WD	Non-DG	Road	5	Flat	Haul
08A	54	09/28/99	530205	4515682	PRIVATE	2WD	Non-DG	Road	6	Outsloped with Berm	Haul

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
08A	33	Stream Crossing	Culvert	25	18	50	In Channel	30	Fair
08A	34	Swale	Swale	30	N/A	N/A	N/A	N/A	N/A
08A	35	Stream Crossing	Culvert	38	18	60	In Channel	72	Fair
08A	36	Stream Crossing	Culvert	25	18	60	In Channel	120	Fair
08A	37	Stream Crossing	Culvert	45	18	60	In Channel	40	Fair
08A	38	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	39	Stream Crossing	Culvert	25	18	50	In Channel	90	Fair
08A	40	Cut Bank	Mass Movement	N/A	N/A	N/A	N/A	N/A	N/A
08A	41	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	42	Stream Crossing	Culvert	32	48	60	In Channel	38	Fair
08A	43	Fill Slope	SPRING	N/A	N/A	N/A	N/A	N/A	N/A
08A	44	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	45	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	46	Stream Crossing	Culvert	48	18	50	In Channel	30	Poor
08A	47	Stream Crossing	Culvert	25	48	60	In Channel	168	Good
08A	48	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	49	Stream Crossing	Culvert	22	24	60	In Channel	120	Poor
08A	50	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	51	Stream Crossing	Culvert	25	24	60	In Channel	160	Poor
08A	52	Stream Crossing	Culvert	32	18	50	In Channel	40	Good
08A	53	Stream Crossing	Culvert	50	18	60	In Channel	30	Good
08A	54	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A	55	Stream Crossing	Culvert	30	18	60	In Channel	15	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
08A	33	Working	No	No	On Grade	On Grade	High	>50	20
08A	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	35	Working	No	No	On Grade	On Grade	High	None	300
08A	36	Plugging	No	No	On Grade	On Grade	High	None	430
08A	37	Working	No	No	None	On Grade	High	>50	830
08A	38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	39	Working	No	No	On Grade	Shotguned	High	None	470
08A	40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	42	Plugging	No	No	On Grade	On Grade	High	None	820
08A	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	46	Working	No	Yes	CRUSHED	On Grade	High	>50	220
08A	47	Working	No	No	On Grade	On Grade	High	None	830
08A	48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	49	Failed	Yes	No	Plugged	On Grade	High	None	350
08A	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	51	Plugging	No	No	On Grade	On Grade	High	None	365
08A	52	Failed	No	No	BELOW GRADE	Plugged	High	>50	220
08A	53	Working	No	No	On Grade	On Grade	High	>50	240
08A	54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08A	55	Working	No	No	On Grade	On Grade	High	None	80
08A	56	Working	No	No	On Grade	Shotguned	Low	None	20

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
08A	33	Fill Slope	0	Yes	240	Medium	240	Medium	1
08A	34	N/A	0	Yes	0	None	102	Low	3
08A	35	N/A	0	Yes	355	High	425	High	2
08A	36	N/A	0	Yes	465	High	465	High	2
08A	37	Fill Slope	0	Yes	65	High	865	High	2
08A	38	N/A	200	Yes	240	High	450	High	2
08A	39	N/A	0	Yes	500	Low	500	High	2
08A	40	N/A	100	Yes	170	Low	170	High	2
08A	41	N/A	100	Yes	0	None	1000	Medium	2
08A	42	N/A	0	Yes	850	Low	850	High	2
08A	43	N/A	20	Yes	1500	Medium	1500	High	1
08A	44	N/A	100	Yes	0	None	2100	High	2
08A	45	N/A	500	Yes	60	Low	3900	Low	3
08A	46	Fill Slope	0	Yes	45	High	265	High	2
08A	47	N/A	0	Yes	30	High	850	High	2
08A	48	N/A	0	Yes	50	Low	50	Medium	3
08A	49	N/A	0	Yes	450	High	450	High	1
08A	50	N/A	500	Yes	0	None	450	Low	3
08A	51	N/A	0	Yes	400	Medium	400	High	2
08A	52	Fill Slope	0	Yes	20	High	225	High	1
08A	53	Fill Slope	0	Yes	0	None	250	High	3
08A	54	N/A	200	Yes	0	None	25	Low	3
08A	55	N/A	0	Yes	0	None	100	Medium	3
08A	56	N/A	1000	Yes	0	None	20	Low	3
08A	57	N/A	500	Yes	0	None	25	Medium	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
08A2	2	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	8	Flat	Haul
08A2	3	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	6	Flat with Berm	Haul
08A2	4	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	10	Flat with Berm	Haul
08A2	5	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	6	Outsloped	Haul
08A2	6	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	4	INBOARD DITCH W/SPRING	Haul
08A2	7	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	4	Flat	Haul
08A2A	1	10/04/99	0	0	PRIVATE	2WD	Non-DG	Road	10	Flat with Berm	Haul
08A5	1	10/06/99	0	0	USFS	Walking Only	Non-DG	Road	4	Flat	Skid
08A6	1	10/06/99	0	0	PRIVATE	Walking Only	Non-DG	Road	10	Flat with Berm	Haul
08AE	1	09/30/99	0	0	PRIVATE	4WD	Non-DG	Road	23	Flat with Berm	Haul
08AE1	1	10/30/99	0	0	PRIVATE	4WD	Non-DG	Road	6	Insloped	Haul
08C	1	10/06/99	0	0	USFS	2WD	Non-DG	Road	1	Outsloped	Haul
08C	2	10/06/99	0	0	USFS	2WD	Non-DG	Road	4	Flat with Berm	Haul
08C	3	10/06/99	0	0	USFS	2WD	Non-DG	Road	3	Insloped	Haul
08C	4	10/06/99	0	0	USFS	2WD	Non-DG	Road	2	Outsloped with Berm	Haul
08C	5	10/06/99	0	0	USFS	2WD	Non-DG	Road	2	Outsloped with Berm	Haul
08C	6	10/06/99	0	0	USFS	2WD	Non-DG	Road	2	Flat	Haul
08C	7	10/06/99	0	0	USFS	2WD	Non-DG	Road	2	Flat	Haul
08C	8	10/06/99	0	0	USFS	2WD	Non-DG	Road	4	Outsloped	Haul
08C	9	10/06/99	0	0	PRIVATE	2WD	Non-DG	Road	7	Outsloped	Haul
08C	10	10/06/99	0	0	PRIVATE	2WD	Non-DG	Road	4	Insloped	Haul
08C	11	10/06/99	0	0	PRIVATE	2WD	Non-DG	Road	8	Outsloped	Haul
08D	1	10/05/99	0	0	PRIVATE	4WD	Non-DG	Road	2	Outsloped	Haul
08D	2	10/05/99	0	0	PRIVATE	4WD	Non-DG	Road	2	Flat	Haul
08D	3	10/05/99	0	0	PRIVATE	4WD	Non-DG	Road	4	Outsloped	Haul
08D1	1	10/05/99	0	0	PRIVATE	Equipment	Non-DG	Road	35	Outsloped	Skid

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
08A2	2	Landing	Swale	35	N/A	N/A	N/A	N/A	N/A
08A2	3	Stream Crossing	Culvert	30	18	60	In Channel	18	Fair
08A2	4	Stream Crossing	Culvert	45	18	60	In Channel	25	Fair
08A2	5	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08A2	6	Stream Crossing	Culvert	55	18	N/A	In Channel	15	Fair
08A2	7	Swale	Swale	45	N/A	N/A	N/A	N/A	N/A
08A2A	1	Fill Slope	Mass Movement	N/A	N/A	N/A	N/A	N/A	N/A
08A5	1	Swale	Swale	N/A	N/A	N/A	N/A	N/A	N/A
08A6	1	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08AE	1	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08AE1	1	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08C	1	Landing	HILLSIDE DRAIN/AGE	N/A	N/A	N/A	N/A	N/A	N/A
08C	2	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08C	3	Stream Crossing	Culvert	45	18	60	In Channel	16	Good
08C	4	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08C	5	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08C	6	Landing	HILLSIDE DRAIN/AGE	N/A	N/A	N/A	N/A	N/A	N/A
08C	7	Stream Crossing	Culvert	N/A	18	40	In Channel	60	Good
08C	8	Swale	Swale	38	N/A	N/A	N/A	N/A	N/A
08C	9	Swale	Swale	25	N/A	N/A	N/A	N/A	N/A
08C	10	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08C	11	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08D	1	Landing	HILLSIDE DRAIN/AGE	N/A	N/A	N/A	N/A	N/A	N/A
08D	2	Landing	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08D	3	Swale	Swale	60	N/A	N/A	N/A	N/A	N/A
08D1	1	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
08E	1	Road Surface	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
08A2	2	N/A	0	Yes	0	None	230	Low	3
08A2	3	Fill Slope	0	Yes	155	Low	155	High	2
08A2	4	N/A	0	Yes	175	Low	175	High	2
08A2	5	N/A	200	Yes	0	None	1330	High	2
08A2	6	N/A	20	Yes	60	High	125	High	2
08A2	7	N/A	0	Yes	20	Low	170	Medium	3
08A2A	1	N/A	0	Yes	0	None	1000	High	3
08A5	1	N/A	150	Yes	0	None	200	Medium	3
08A6	1	N/A	200	Yes	275	Medium	275	High	1
08AE	1	N/A	100	Yes	0	None	100	High	3
08AE1	1	N/A	100	Yes	40	High	175	High	2
08C	1	N/A	100	Yes	0	None	370	Low	3
08C	2	N/A	200	Yes	0	None	15	Low	3
08C	3	N/A	0	Yes	220	Low	220	Medium	3
08C	4	N/A	0	Yes	0	None	15	Low	3
08C	5	N/A	150	Yes	0	None	15	Medium	3
08C	6	N/A	100	Yes	0	None	1040	Low	2
08C	7	Fill Slope	0	Yes	25	Low	180	Low	3
08C	8	N/A	0	Yes	0	None	45	Medium	3
08C	9	N/A	0	Yes	130	Low	130	Medium	3
08C	10	N/A	100	Yes	0	None	1945	Low	2
08C	11	N/A	100	Yes	0	None	620	Low	3
08D	1	N/A	500	Yes	0	None	5700	Medium	2
08D	2	N/A	40	Yes	0	None	3000	Low	2
08D	3	N/A	0	Yes	25	Low	120	Medium	3
08D1	1	N/A	0	Yes	15	Low	15	Medium	3
08E	1	N/A	500	Yes	40	Low	60	Medium	3
08E	2	N/A	500	Yes	40	Low	55	Medium	3
08E	3	N/A	0	Yes	0	None	35	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
08E1	8	09/30/99	0	0	PRIVATE	2WD	Non-DG	Road	8	Flat with Berm	Haul
08E1	9	09/30/99	0	0	PRIVATE	2WD	Non-DG	Road	15	Outsloped	Haul
08E1	10	09/30/99	0	0	PRIVATE	2WD	Non-DG	Road	6	Flat with Berm	Haul
08E1A	1	09/30/99	0	0	PRIVATE	Equipment	Non-DG	Road	6	Outsloped with Berm	Skid
08E1A	2	09/30/99	0	0	PRIVATE	Equipment	Non-DG	Road	16	Insloped with Berm	Skid
08E1B	1	09/30/99	0	0	PRIVATE	Equipment	Non-DG	Road	15	Flat	Skid
09C	5	12/19/00	537786	4515719	BLM	2WD	Non-DG	Road	2	Outsloped	Haul
09C	6	12/19/00	537907	4515642	BLM	2WD	Non-DG	Road	4	Outsloped	Haul
09C	7	12/19/00	538229	4515493	BLM	2WD	Non-DG	Road	4	Flat	Haul
09C	8	12/19/00	538326	4515488	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	9	12/19/00	538422	4515500	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	10	12/19/00	538410	4515573	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	11	12/19/00	538317	4515694	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	12	12/19/00	538448	4515847	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	13	12/19/00	538578	4515922	BLM	2WD	Non-DG	Road	6	Outsloped	Haul
09C	14	12/20/00	538679	4515945	BLM	2WD	Non-DG	Road	8	Insloped	Haul
09C	15	12/20/00	538603	4515895	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	16	12/20/00	538580	4515812	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	17	12/20/00	538589	4515751	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	18	12/20/00	538566	4515687	BLM	2WD	Non-DG	Road	6	Flat with Berm	Haul
09C	19	12/20/00	538680	4515602	BLM	2WD	Non-DG	Road	10	Insloped with Berm	Haul
09C	20	12/20/00	538733	4515587	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	21	01/09/01	538763	4515481	BLM	2WD	Non-DG	Road	5	Insloped with Berm	Haul
09C	22	01/09/01	538762	4515424	BLM	2WD	Non-DG	Road	6	Insloped with Berm	Haul
09C	23	01/09/01	538705	4515380	BLM	2WD	Non-DG	Road	6	Outsloped with Berm	Haul
09C	24	01/09/01	538682	4515321	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	25	01/09/01	538639	4515249	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	26	01/09/01	538594	4515188	BLM	2WD	Non-DG	Road	6	Outsloped with Berm	Haul
09C	27	01/09/01	538594	4545188	BLM	2WD	Non-DG	Road	6	Outsloped with Berm	Haul
09C	28	01/10/01	538640	4515137	BLM	2WD	Non-DG	Road	6	Insloped	Haul

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
08E1	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08E1	9	Working	No	No	On Grade	Shotguned	High	None	180
08E1	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08E1A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08E1A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08E1B	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09C	5	Working	No	No	Drop Inlet	Half Pipe	Low	None	55
09C	6	Plugging	No	No	Drop Inlet	Half Pipe	High	<50	55
09C	7	Working	No	No	None	None	Low	>50	30
09C	8	Working	No	No	On Grade	On Grade	Low	>50	30
09C	9	Working	No	No	Drop Inlet	Plugging	Medium	>50	30
09C	10	Working	No	No	On Grade	On Grade	Low	>50	50
09C	11	Working	No	No	Flared On Grade	UNKNOWN	Low	None	120
09C	12	Working	No	No	Flared On Grade	On Grade	Low	None	360
09C	13	Working	No	No	Drop Inlet	Shotguned	Medium	None	55
09C	14	Working	No	No	On Grade	Shotguned	Low	>50	300
09C	15	Working	No	No	Drop Inlet	Half Pipe	Low	>50	30
09C	16	Working	No	No	Flared On Grade	On Grade	Low	>50	300
09C	17	Working	No	No	On Grade	On Grade	Medium	>50	30
09C	18	Working	Yes	No	On Grade	On Grade	Medium	>50	300
09C	19	Working	Yes	No	On Grade	On Grade	High	>50	50
09C	20	Working	No	No	Drop Inlet	Half Pipe	Low	>50	30
09C	21	Working	No	Yes	Drop Inlet	Half Pipe	Medium	>50	50
09C	22	Working	No	No	Drop Inlet	Half Pipe	Medium	>50	50
09C	23	Working	No	No	Drop Inlet	Half Pipe	Medium	>50	50
09C	24	Working	No	No	Drop Inlet	Half Pipe	High	>50	50
09C	25	Working	No	No	Drop Inlet	Half Pipe	High	>50	50
09C	26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09C	27	Working	No	No	On Grade	On Grade	Low	>50	120
09C	28	Working	No	Yes	Drop Inlet	Half Pipe	High	>50	50
09C	29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09C	30	Working	No	No	None	Half Pipe	Medium	>50	50

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
08E1	8	N/A	0	Yes	45	High	110	High	1
08E1	9	N/A	0	Yes	225	High	225	High	1
08E1	10	N/A	0	Yes	190	Medium	455	High	2
08E1A	1	N/A	0	Yes	15	Medium	40	High	3
08E1A	2	N/A	0	Yes	30	Low	30	Medium	3
08E1B	1	N/A	0	Yes	0	None	135	Low	3
09C	5	N/A	0	Yes	55	Low	55	Low	3
09C	6	Fill Slope	0	Yes	55	Low	55	Medium	3
09C	7	Hill Slope	0	Yes	30	Low	30	Low	3
09C	8	Adjacent Cross Drain	0	Yes	30	Low	30	Low	3
09C	9	Adjacent Cross Drain	0	Yes	30	Low	30	Low	3
09C	10	Adjacent Stream Crossing	0	Yes	55	Low	55	Low	3
09C	11	N/A	0	Yes	0	None	120	Low	3
09C	12	N/A	0	Yes	360	Low	360	Low	3
09C	13	N/A	0	Yes	55	Low	55	Medium	3
09C	14	Adjacent Cross Drain	0	Yes	55	Low	55	Low	3
09C	15	Adjacent Stream Crossing	0	Yes	30	Low	30	Low	3
09C	16	Adjacent Cross Drain	0	Yes	300	Low	300	Low	3
09C	17	Adjacent Stream Crossing	0	Yes	30	Low	30	Low	3
09C	18	Fill Slope	0	Yes	150	Low	450	Medium	2
09C	19	Adjacent Cross Drain	0	Yes	50	High	50	High	2
09C	20	Adjacent Stream Crossing	0	Yes	30	Low	30	Low	3
09C	21	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	22	Adjacent Cross Drain	200	Yes	50	Low	50	Medium	2
09C	23	Adjacent Cross Drain	500	Yes	50	Low	50	Low	2
09C	24	Adjacent Cross Drain	500	Yes	50	Low	50	High	2
09C	25	Adjacent Stream Crossing	200	Yes	50	Low	50	High	2
09C	26	N/A	0	Yes	25	Medium	45	High	3
09C	27	Fill Slope	0	Yes	120	Low	120	Low	3
09C	28	Adjacent Cross Drain	200	Yes	50	Low	50	High	2
09C	29	N/A	0	Yes	20	Medium	55	High	3
09C	30	Adjacent Stream Crossing	0	Yes	50	Low	50	High	2
09C	31	Fill Slope	0	Yes	30	Low	270	Medium	2
09C	32	Adjacent Stream Crossing	0	Yes	50	Low	50	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
09C	35	01/10/01	538597	4515745	BLM	2WD	Non-DG	Road	2	Insloped	Haul
09C	36	01/10/01	538534	4514645	BLM	2WD	Non-DG	Road	4	Outsloped	Haul
09C	37	01/10/01	538529	4514512	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	38	01/10/01	538541	4514441	BLM	2WD	Non-DG	Road	5	Insloped	Haul
09C	39	01/10/01	538488	4514308	BLM	2WD	Non-DG	Road	4	Flat	Haul
09C	40	01/10/01	538403	4514243	BLM	2WD	Non-DG	Road	6	Crowned with Berm	Haul
09C	41	01/11/01	538365	4514191	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	42	01/11/01	538425	4514204	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	43	01/11/01	538476	4514216	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	44	01/11/01	538542	4514204	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	45	01/11/01	538594	4514214	BLM	2WD	Non-DG	Road	6	Outsloped	Haul
09C	46	01/11/01	538643	4514245	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	47	01/11/01	538680	4514289	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	48	01/11/01	538690	4514340	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	49	01/11/01	538747	4514361	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	50	01/11/01	538791	4514391	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	51	01/11/01	538822	4514451	BLM	2WD	Non-DG	Road	6	Flat	Haul
09C	52	01/11/01	538858	4514499	BLM	2WD	Non-DG	Road	6	Insloped	Haul
09C	53	02/21/01	538892	4515568	BLM	2WD	Non-DG	Road	2	Flat	Access
09C	54	02/21/01	538837	4515346	BLM	2WD	Non-DG	Road	4	Flat	Access
09C	55	02/21/01	538707	4514138	BLM	2WD	Non-DG	Road	4	FLAT	Access
09C	56	02/21/01	538466	4513990	BLM	2WD	Non-DG	Road	6	FLAT	Access
09C	57	02/21/01	538422	4513842	BLM	2WD	Non-DG	Road	6	FLAT	Access
09C	58	02/21/01	538411	4513901	BLM	2WD	Non-DG	Road	4	FLAT	Access
09C	59	02/22/01	538341	4513783	BLM	2WD	Non-DG	Road	2	FLAT	Access
09C	60	02/22/01	538240	4513746	BLM	2WD	Non-DG	Road	4	FLAT	Access
09C	61	02/22/01	538171	4513775	BLM	2WD	Non-DG	Road	4	FLAT	Access
09C	62	02/22/01	538139	4513776	BLM	2WD	Non-DG	Road	4	OUTSLOPED	Access
09C	63	02/22/01	538033	4513667	BLM	2WD	Non-DG	Road	4	OUTSLOPED	Access
09C	64	02/22/01	537791	4513453	BLM	2WD	Non-DG	Road	4	OUTSLOPED	Access
09C	65	02/22/01	537755	4513390	BLM	2WD	Non-DG	Road	4	OUTSLOPED	Access
09C	66	02/22/01	537678	4513180	BLM	2WD	Non-DG	Road	4	OUTSLOPED	Access
09C	67	02/22/01	537635	4513153	BLM	2WD	Non-DG	Road	5	INSLOPED	Access
09C	68	02/22/01	537399	4512996	BLM	2WD	Non-DG	Road	4	INSLOPED	Access
09C	69	01/17/01	538224	4515224	BLM	Walking	Non-DG	Road	12	Flat with Berm	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
09C	35	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	36	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	37	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	38	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	39	Fill Slope	Culvert	N/A	24	40	Road Draining Relief	24	Good
09C	40	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	41	Fill Slope	Culvert	N/A	24	60	Road Draining Relief	24	Good
09C	42	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	43	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	44	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	45	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	46	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	47	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	48	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	49	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	50	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	51	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	24	Good
09C	52	Stream Crossing	Culvert	24	24	40	Other	28	Good
09C	53	Fill Slope	Culvert	20	24	20	In Channel	6	Fair
09C	54	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	18	Good
09C	55	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	4	Good
09C	56	Fill Slope	Culvert	32	24	20	In Channel	24	Good
09C	57	Fill Slope	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09C	58	Fill Slope	Culvert	12	72	40	In Channel	80	Good
09C	59	Fill Slope	Culvert	N/A	18	35	Road Draining Relief	6	Fair
09C	60	Fill Slope	Culvert	35	24	20	In Channel	30	Good
09C	61	Fill Slope	Culvert	32	18	20	In Channel	16	Good
09C	62	Fill Slope	Culvert	28	30	30	In Channel	12	Good
09C	63	Fill Slope	Culvert	24	48	60	In Channel	96	Good
09C	64	Fill Slope	Culvert	25	12	20	In Channel	12	Fair
09C	65	Fill Slope	Culvert	28	18	20	In Channel	-8	POOR
09C	66	Fill Slope	Culvert	20	18	20	In Channel	30	Fair
09C	67	Fill Slope	Culvert	18	18	20	In Channel	-10	Good
09C	68	Fill Slope	Culvert	20	18	20	In Channel	-24	Fair
09D	1	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09D	2	ROAD SURFACE	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
09C	35	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	36	Adjacent Cross Drain	200	Yes	60	Low	70	Medium	3
09C	37	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	38	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	39	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	40	Adjacent Cross Drain	0	Yes	50	Low	50	Medium	3
09C	41	Adjacent Cross Drain	0	Yes	75	Low	75	Low	3
09C	42	N/A	0	Yes	50	Medium	50	High	3
09C	43	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	44	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	45	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	46	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	47	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	48	Adjacent Cross Drain	100	Yes	50	High	50	High	1
09C	49	Adjacent Cross Drain	100	Yes	50	Low	50	Low	2
09C	50	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	51	Adjacent Stream Crossing	0	Yes	50	Low	50	Low	3
09C	52	Adjacent Stream Crossing	0	Yes	35	Medium	60	Medium	3
09C	53	Adjacent Cross Drain	0	Yes	55	Low	55	Low	3
09C	54	N/A	0	Yes	55	Low	55	Medium	3
09C	55	Fill Slope	0	Yes	55	Low	55	Low	3
09C	56	Adjacent Stream Crossing	0	Yes	55	Low	55	Low	3
09C	57	N/A	0	Yes	30	Medium	30	High	3
09C	58	N/A	0	Yes	300	Low	300	Low	2
09C	59	Fill Slope	0	Yes	20	Medium	20	High	3
09C	60	N/A	0	Yes	55	Low	55	Low	3
09C	61	N/A	0	Yes	55	Low	55	Low	3
09C	62	N/A	0	Yes	75	Low	75	Low	3
09C	63	N/A	0	Yes	150	Low	150	Low	3
09C	64	Fill Slope	0	Yes	100	Medium	100	High	2
09C	65	N/A	0	Yes	50	Medium	50	High	3
09C	66	N/A	0	Yes	50	Low	50	Medium	3
09C	67	Adjacent Stream Crossing	0	Yes	50	Low	50	Low	2
09C	68	N/A	0	Yes	50	Low	50	Low	2
09D	1		0	Yes	40	Medium	120	High	2
09D	2		>100	NO	20	Medium	20	Medium	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
09C	35	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	36	Adjacent Cross Drain	200	Yes	60	Low	70	Medium	3
09C	37	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	38	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	39	Adjacent Cross Drain	200	Yes	50	Low	50	Low	3
09C	40	Adjacent Cross Drain	0	Yes	50	Low	50	Medium	3
09C	41	Adjacent Cross Drain	0	Yes	75	Low	75	Low	3
09C	42	N/A	0	Yes	50	Medium	50	High	3
09C	43	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	44	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	45	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	46	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	47	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	48	Adjacent Cross Drain	100	Yes	50	High	50	High	1
09C	49	Adjacent Cross Drain	100	Yes	50	Low	50	Low	2
09C	50	Adjacent Cross Drain	100	Yes	50	Low	50	Low	3
09C	51	Adjacent Stream Crossing	0	Yes	50	Low	50	Low	3
09C	52	Adjacent Stream Crossing	0	Yes	35	Medium	60	Medium	3
09C	53	Adjacent Cross Drain	0	Yes	55	Low	55	Low	3
09C	54	N/A	0	Yes	55	Low	55	Medium	3
09C	55	Fill Slope	0	Yes	55	Low	55	Low	3
09C	56	Adjacent Stream Crossing	0	Yes	55	Low	55	Low	3
09C	57	N/A	0	Yes	30	Medium	30	High	3
09C	58	N/A	0	Yes	300	Low	300	Low	2
09C	59	Fill Slope	0	Yes	20	Medium	20	High	3
09C	60	N/A	0	Yes	55	Low	55	Low	3
09C	61	N/A	0	Yes	55	Low	55	Low	3
09C	62	N/A	0	Yes	75	Low	75	Low	3
09C	63	N/A	0	Yes	150	Low	150	Low	3
09C	64	Fill Slope	0	Yes	100	Medium	100	High	2
09C	65	N/A	0	Yes	50	Medium	50	High	3
09C	66	N/A	0	Yes	50	Low	50	Medium	3
09C	67	Adjacent Stream Crossing	0	Yes	50	Low	50	Low	2
09C	68	N/A	0	Yes	50	Low	50	Low	2
09D	1		0	Yes	40	Medium	120	High	2
09D	2		>100	NO	20	Medium	20	Medium	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
09D	3	03/29/01	538483	4514341	BLM	Walking Only	Non-DG	OHV	5	Flat with Berm	SKID
09D	4	03/29/01	538369	4514229	BLM	Walking Only	Non-DG	OHV	9	Flat with Berm	SKID
09E	1	03/02/01	538983	4514573	BLM	2WD	Non-DG	Road	6	Outsloped with Berm	Access
09E	2	03/02/01	538984	4514554	BLM	2WD	Non-DG	Road	10	Outsloped with Berm	Access
09E	3	03/02/01	539024	4514508	BLM	2WD	Non-DG	Road	10	Outsloped with Berm	Access
09E	4	03/02/01	539644	4514469	BLM	2WD	Non-DG	Road	6	Flat with Berm	Access
09E	5	03/07/01	539588	4514509	BLM	2WD	Non-DG	Road	8	Flat with Berm	Access
09E	6	03/07/01	539539	4514577	BLM	2WD	Non-DG	Road	14	Outsloped with Berm	Access
09E	7	03/07/01	539525	4514563	BLM	2WD	Non-DG	Road	10	OUTSLOPED	Access
09E	8	03/09/01	539393	4514923	BLM	2WD	Non-DG	Road	10	FLAT	Access
09E	9	03/09/01	539689	4515184	BLM	2WD	Non-DG	Road	8	Flat with Berm	Access
09E	10	03/26/01	540474	4515493	BLM	2WD	Non-DG	Road	2	OUTSLOPED	Access
09E	11	03/26/01	540569	4515795	BLM	2WD	Non-DG	Road	5	Outsloped with Berm	Access
09E1	1	03/27/01	539910	4515331	BLM	Walking Only	Non-DG	Road	N/A	FLAT	Haul
09E1	2	03/27/01	539921	4515348	BLM	Walking Only	Non-DG	Road	N/A	FLAT	Haul
09E1	3	03/27/01	530762	4515371	BLM	Walking Only	Non-DG	Road	5	Flat with Berm	Haul
09E1	4	03/27/01	539655	4515766	BLM	Walking Only	Non-DG	Road	5	Outsloped with Berm	Haul
10A	1	01/03/02	531284	4510398	PRIVATE	2WD	Non-DG	Road	8	Flat	Haul
10A	2	01/03/02	531124	4510448	PRIVATE	2WD	Non-DG	Road	8	Flat	Haul
10A	3	01/03/02	530997	4510469	PRIVATE	2WD	Non-DG	Road	4	FLAT	Haul
10A	4	01/18/00	530967	4510489	PRIVATE	2WD	Non-DG	Road	2	OUTSLOPED	Haul
10A	5	01/18/00	530947	4510490	PRIVATE	2WD	Non-DG	Road	2	FLAT	Haul
10A	6	01/18/00	5300881	4510520	PRIVATE	2WD	Non-DG	Road	2	OUTSLOPED	Haul
10A	7	04/29/02	530859	4510509	PRIVATE	2WD	Non-DG	Road	4	FLAT	Access
10A	7	01/18/00	530867	4510506	PRIVATE	2WD	Non-DG	Road	4	OUTSLOPED	Haul
10A	8	04/29/02	530464	4510834	PRIVATE	2WD	Non-DG	Road	6	OUTSLOPED	Access
10A	9	04/29/02	530394	4510917	PRIVATE	2WD	Non-DG	Road	10	OUTSLOPED	Access
10A	10	04/29/02	530213	4511090	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	11	05/07/02	529993	4511236	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	12	05/07/02	529800	4511312	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	13	05/07/02	529476	4511399	PRIVATE	2WD	Non-DG	Road	5	FLAT	Access
10A	14	05/07/02	528952	4511244	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	15	05/08/02	528701	4511149	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	16	05/08/02	528644	4511152	PRIVATE	2WD	Non-DG	Road	6	FLAT	Access
10A	17	05/08/02	528428	4511087	PRIVATE	2WD	Non-DG	Road	10	Flat with Berm	Access
10A	18	05/08/02	528052	4510868	PRIVATE	2WD	Non-DG	Road	8	FLAT	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
09D	3	ROAD SURFACE	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09D	4	ROAD SURFACE	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09E	1	Fill Slope	Culvert	4	78	20	In Channel	8	Good
09E	2	Fill Slope	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09E	3	Fill Slope	N/A	N/A	N/A	N/A	N/A	N/A	N/A
09E	4	Fill Slope	Culvert	12	18	20	In Channel	4	Good
09E	5	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09E	6	Fill Slope	Culvert	38	18	40	IN CHANNEL	34	Fair
09E	7	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09E	8	Fill Slope	Culvert	18	18	40	IN CHANNEL	30	FAIR
09E	9	Fill Slope	Culvert	42	18	40	IN CHANNEL	46	Fair
09E	10	Fill Slope	SWALE, SPRING	22	N/A	N/A	N/A	N/A	N/A
09E	11	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
09E1	1	Fill Slope	Culvert	3	30	40	IN CHANNEL	18	Fair
09E1	2	Fill Slope	STREAM DRAIN/AGE	15	N/A	N/A	N/A	N/A	N/A
09E1	3	Fill Slope	SWALE, SPRING	25	N/A	N/A	N/A	N/A	N/A
09E1	4	Fill Slope	STREAM DIVERSION	25	N/A	N/A	N/A	N/A	N/A
10A	1	Fill Slope	Stream Channel	28	N/A	N/A	N/A	N/A	N/A
10A	2	Fill Slope	Culvert	28	18	30	In Channel	22	Good
10A	3	Fill Slope	STREAM DIVERSION	20	N/A	N/A	N/A	N/A	N/A
10A	4	Fill Slope	Culvert	N/A	12	20	Road Draining Relief	4	Fair
10A	5	Fill Slope	STREAM DIVERSION	20	N/A	N/A	N/A	N/A	N/A
10A	6	Fill Slope	STREAM CHANNEL	34	N/A	N/A	N/A	N/A	N/A
10A	7	STREAM CROSSING	NO CULVERT	20	N/A	N/A	N/A	N/A	N/A
10A	7	Fill Slope	STREAM CHANNEL	30	N/A	N/A	N/A	N/A	N/A
10A	8	Fill Slope	NO CULVERT	15	N/A	N/A	N/A	N/A	N/A
10A	9	Fill Slope	NO CULVERT	30	N/A	N/A	N/A	N/A	N/A
10A	10	Fill Slope	Culvert	14	42	60	In Channel	16	Good
10A	11	Fill Slope	Culvert	12	36	20	In Channel	12	Good
10A	12	STREAM CROSSING	NO CULVERT	15	N/A	N/A	N/A	N/A	N/A
10A	13	Fill Slope	Culvert	18	18	20	In Channel	36	Fair
10A	14	Fill Slope	Culvert	20	56	40	In Channel	18	Good
10A	15	Fill Slope	Culvert	4	72	40	In Channel	30	Good
10A	16	Fill Slope	Culvert	15	24	20	In Channel	7	Good
10A	17	Fill Slope	Culvert	22	12	20	In Channel	10	Fair
10A	18	Fill Slope	Culvert	6	24	40	In Channel	15	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
09D	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09D	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	1	Working	No	No	On Grade	On Grade	Low	None	314
09E	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	4	Working	No	No	On Grade	Shotguned	Low	>50	35
09E	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	6	Working	Yes	Yes	On Grade	Shotguned	Medium	>50	61
09E	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	8	Working	No	No	On Grade	On Grade	Medium	<50	87
09E	9	Working	Yes	Yes	On Grade	Shotguned	Medium	<50	87
09E	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E1	1	Working	Yes	No	NO	Shotguned	High	None	138
09E1	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E1	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
09E1	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	2	Working	Yes	Yes	NONE	None	Medium	>50	148
10A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	4	Working	No	No	NONE	ROCKED	High	None	76
10A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	155
10A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	233
10A	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87
10A	10	Working	No	No	NONE	Shotguned	High	None	177
10A	11	Working	Yes	No	NONE	Shotguned	Low	None	155
10A	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	242
10A	13	PLUGGED	Yes	No	PLUGGED	PLUGGED	High	None	87
10A	14	Working	No	No	On Grade	Shotguned	Medium	>50	349
10A	15	Working	No	No	On Grade	On Grade	Low	None	270
10A	16	Working	No	No	On Grade	Shotguned	Low	<50	61
10A	17	Working	Yes	Yes	PLUGGING	Shotguned	High	>50	39
10A	18	Working	No	No	On Grade	Shotguned	Low	None	155

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
09D	3		>100	NO	20	Medium	20	Medium	3
09D	4		>100	NO	20	Medium	20	High	3
09E	1	N/A	0	Yes	300	Low	300	Low	2
09E	2		0	Yes	25	Low	30	Medium	3
09E	3		0	Yes	35	Medium	75	High	3
09E	4	Hill Slope	0	Yes	60	Low	70	Low	3
09E	5		200	Yes	40	Medium	60	High	3
09E	6	Hill Slope	0	Yes	60	Medium	90	High	2
09E	7		0	Yes	25	Low	55	Low	3
09E	8	Fill Slope	0	Yes	85	Medium	85	Medium	2
09E	9	Fill Slope	0	Yes	85	Medium	85	Medium	2
09E	10		0	Yes	25	Medium	25	Medium	3
09E	11	Fillsloped& hillsloped	0	Yes	25	Medium	25	Medium	3
09E1	1	STREAM	0	Yes	140	Low	140	Medium	2
09E1	2		0	Yes	15	Low	75	Medium	3
09E1	3		0	Yes	0	NONE	30	High	3
09E1	4		0	Yes	0	NONE	25	Medium	3
10A	1		0	Yes	15	Low	700	Low	3
10A	2	Adjacent Stream Crossing	0	Yes	170	Low	170	Medium	3
10A	3		0	Yes	55	High	100	High	2
10A	4	N/A	200	Yes	0	NONE	100	Low	3
10A	5		0	Yes	0	NONE	30	Low	3
10A	6		0	Yes	150	Low	330	Medium	2
10A	7		0	Yes	80	Low	150	Low	3
10A	7		0	Yes	125	Medium	200	Medium	2
10A	8		0	Yes	0	NONE	240	Low	3
10A	9		0	Yes	45	Low	90	Low	3
10A	10	N/A	0	Yes	175	Medium	175	High	1
10A	11	N/A	0	Yes	90	Low	150	Low	3
10A	12	N/A	0	Yes	0	NONE	240	Low	3
10A	13	N/A	0	Yes	20	Low	90	Medium	3
10A	14	Fill Slope	0	Yes	110	Low	520	Medium	2
10A	15	N/A	0	Yes	395	Low	520	Low	3
10A	16	Fill Slope	0	Yes	60	Low	60	Low	3
10A	17	Fill Slope	0	Yes	45	Medium	150	High	2
10A	18	N/A	0	Yes	150	Low	150	Medium	2

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
10A	19	05/08/02	527987	4510791	PRIVATE	2WD	Non-DG	Road	6	INSLOPED	Access
10A	20	05/08/02	528299	4510915	PRIVATE	2WD	DG	Road	10	FLAT	Access
10A	21	05/08/02	528330	4510852	PRIVATE	2WD	DG	Road	12	Flat with Berm	Access
10A	22	05/08/02	528460	4510658	PRIVATE	2WD	Non-DG	Road	4	FLAT	Access
10A	23	05/08/02	528386	4510270	PRIVATE	2WD	Non-DG	Road	8	FLAT	Access
10B	1	04/29/02	529612	4511457	PRIVATE	4WD	Non-DG	Road	18	INSLOPED	Access
10B	2	04/29/02	529236	4511584	PRIVATE	4WD	Non-DG	Road	15	FLAT	Access
10B	3	04/29/02	528647	4512302	PRIVATE	4WD	Non-DG	Road	12	FLAT	Access
10B	4	04/29/02	528325	4512382	PRIVATE	4WD	Non-DG	Road	12	FLAT	Access
10C	1	05/13/02	527909	4510251	PRIVATE	2WD	Non-DG	Road	6	OUTSLOPED	Access
10D	1	05/13/02	528413	4510472	PRIVATE	2WD	Non-DG	Road	2	OUTSLOPED	Access
10D	2	05/13/02	528454	4510473	PRIVATE	2WD	Non-DG	Road	2	OUTSLOPED	Access
10D	3	05/13/02	529731	4510553	PRIVATE	2WD	Non-DG	Road	6	Flat with Berm	Access
10D	4	05/13/02	529721	4510522	PRIVATE	2WD	Non-DG	Road	10	FLAT	Access
10D	5	05/23/02	530416	4510872	PRIVATE	2WD	Non-DG	Road	4	FLAT	Access
10E	1	06/04/02	529024	4511387	PRIVATE	2WD	Non-DG	Road	10	FLAT	Access
10E	2	06/04/02	528642	4511781	PRIVATE	2WD	Non-DG	Road	8	FLAT	Access
10E	3	06/04/02	527984	4511544	PRIVATE	2WD	Non-DG	Road	4	FLAT	Access
10F	1	06/10/02	530236	4510425	PRIVATE	2WD	Non-DG	Road	12	FLAT	Access
10G	1	06/10/02	528187	4510513	PRIVATE	2WD	Non-DG	Road	2	OUTSLOPED	Haul
11A	1	03/06/01	532937	4510188	BLM	2WD	DG	Road	6	INSLOPED WITH BERM	Access
11A	2	03/06/01	532987	4510097	BLM	2WD	Non-DG	Road	6	Outsloped with Berm	Access
11A	3	03/06/01	532958	4510045	BLM	2WD	Non-DG	Road	10	OUTSLOPED	Access
11A	4	03/06/01	532711	4510112	BLM	2WD	Non-DG	Road	5	Flat with Berm	Access
11A	5	03/06/01	532651	4510108	BLM	2WD	Non-DG	Road	6	Flat with Berm	Access
11A	6	03/06/01	532528	4510183	PRIVATE	2WD	Non-DG	Road	6	OUTSLOPED	Access
11B	1	03/06/01	532306	4510303	PRIVATE	2WD	Non-DG	Road	4	OUTSLOPED	Access
11B	2	03/06/01	532194	4510354	PRIVATE	2WD	Non-DG	Road	4	FLAT	Access
15A	1	05/25/01	531954	4500733	NPS	4WD	Non-DG	Road	12	FLAT	Access
15A	2	05/25/01	531969	4500770	NPS	4WD	Non-DG	Road	6	FLAT	Access
15A	3	05/25/01	532049	4500800	NPS	4WD	Non-DG	Road	2	FLAT	Access
15A	4	05/25/01	532024	4500731	NPS	4WD	Non-DG	Road	10	Flat with Berm	Access
15A	5	05/25/01	532315	4500796	NPS	4WD	Non-DG	Road	6	Flat with Berm	Access
15A	6	05/25/01	532322	4500798	NPS	4WD	Non-DG	Road	6	FLAT	Access
15A	7	05/25/01	532409	4500879	NPS	4WD	Non-DG	Road	8	Flat with Berm	Access
15A	8	02/05/02	532352	4501112	NPS	4WD	Non-DG	Road	8	Outsloped with Berm	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
10A	19	Fill Slope	Culvert	6	24	30	In Channel	24	Fair
10A	20	Fill Slope	SWALE	N/A	N/A	N/A	N/A	N/A	N/A
10A	21	Fill Slope	SWALE	N/A	N/A	N/A	N/A	N/A	N/A
10A	22	LANDING	SWALE	N/A	N/A	N/A	N/A	N/A	N/A
10A	23	Fill Slope	SPRING	15	12	20	In Channel	20	Fair
10B	1	ROAD SURFACE	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
10B	2	STREAM CROSSING	POND DRAIN/AGE	N/A	N/A	N/A	N/A	N/A	N/A
10B	3	Fill Slope	STREAM DIVERSION	38	N/A	N/A	N/A	N/A	N/A
10B	4	Fill Slope	STREAM DIVERSION	28	N/A	N/A	N/A	N/A	N/A
10C	1	LANDING	SWALE	N/A	N/A	N/A	N/A	N/A	N/A
10D	1	Fill Slope	Culvert	24	18	40	In Channel	8	Good
10D	2	Fill Slope	Culvert	N/A	18	UNKN	Road Draining Relief	4	Good
10D	3	Fill Slope	Culvert	25	18	60	In Channel	42	Good
10D	4	Fill Slope	Culvert	25	18	40	In Channel	20	Good
10D	5	Fill Slope	Culvert	4	72	30	IN CHANNEL	12	Good
10E	1	Fill Slope	Culvert	45	12	UNKN	IN CHANNEL	UNKN	Fair
10E	2	Fill Slope	Culvert	33	30	60	IN CHANNEL	42	Good
10E	3	Fill Slope	NO CULVERT	35	N/A	N/A	N/A	N/A	N/A
10F	1	Fill Slope	Culvert	10	42	60	IN CHANNEL	15	Good
10G	1	Fill Slope	OVERLAND H2O	N/A	N/A	N/A	N/A	N/A	N/A
11A	1	Fill Slope	Road Drainage	N/A	N/A	N/A	N/A	N/A	N/A
11A	2	Fill Slope	Culvert	22	30	40	In Channel	30	Fair
11A	3	Fill Slope	Culvert	33	24	40	In Channel	54	Good
11A	4	Fill Slope	Culvert	15	36	40	In Channel	36	Good
11A	5	Fill Slope	Culvert	12	36	20	In Channel	40	Good
11A	6	CHANNEL	ROAD CONSTRUCTION	8	N/A	N/A	N/A	N/A	N/A
11B	1	Fill Slope	Culvert	6	36	20	In Channel	12	Good
11B	2	Fill Slope	Culvert	6	36	20	In Channel	18	Good
15A	1	Fill Slope	SPRING	N/A	N/A	N/A	N/A	N/A	N/A
15A	2	Fill Slope	Culvert	4	18	10	IN CHANNEL	4	POOR
15A	3	Fill Slope	Culvert	4	24	20	In Channel	20	Good
15A	4	Fill Slope	SWALE, SPRING	40	N/A	N/A	N/A	N/A	N/A
15A	5	Fill Slope	STREAM DIVERSION	45	N/A	N/A	N/A	N/A	N/A
15A	6	Fill Slope	STREAM CROSSING	40	N/A	N/A	N/A	N/A	N/A
15A	7	Fill Slope	SWALE DIVERSION	40	N/A	N/A	N/A	N/A	N/A
15A	8	Fill Slope	SWALE DIVERSION	36	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
10A	19	Working	No	No	On Grade	Shotguned	Low	None	196
10A	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10A	23	Working	No	No	CRUSHED	On Grade	Low	None	39
10B	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10B	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10B	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	140
10B	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	155
10C	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10D	1	Working	No	No	On Grade	Shotguned	Medium	None	55
10D	2	FAILING	No	No	NONE	UNKN	High	None	35
10D	3	Working	No	No	On Grade	On Grade	Low	None	155
10D	4	Working	No	No	GRATE	NONE	Medium	>50	87
10D	5	Working	No	No	On Grade	On Grade	High	None	350
10E	1	FAILED	Yes	Yes	PLUGGED	Shotguned	High	<50	76
10E	2	Working	Yes	No	On Grade	On Grade	Medium	None	119
10E	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
10F	1	Working	No	No	On Grade	On Grade	Medium	>50	178
10G	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
11A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
11A	2	Working	No	No	On Grade	On Grade	Low	>50	55
11A	3	Working	No	No	On Grade	Shotguned	Low	<50	55
11A	4	Working	No	No	On Grade	Shotguned	Low	>50	119
11A	5	Working	No	No	On Grade	On Grade	Low	None	155
11A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35
11B	1	Working	Yes	No	On Grade	On Grade	Low	None	79
11B	2	Working	Yes	No	On Grade	On Grade	Low	None	39
15A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39
15A	2	PLUGGING	Yes	No	On Grade	Shotguned	High	None	39
15A	3	Working	No	No	On Grade	On Grade	Medium	None	79
15A	4	N/A	N/A	N/A	N/A	N/A	N/A	>50	35
15A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
15A	6	N/A	N/A	N/A	N/A	N/A	N/A	NONE	35
15A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	119
15A	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	79

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
10A	19	N/A	0	Yes	200	Low	200	Medium	2
10A	20		0	Yes	200	Medium	350	High	1
10A	21		0	Yes	240	Medium	360	High	1
10A	22		0	Yes	0	NONE	160	Low	3
10A	23	N/A	0	Yes	0	NONE	40	Low	3
10B	1		200	Yes	20	Low	50	Low	3
10B	2		500	Yes	40	Low	225	Low	3
10B	3		0	Yes	215	Medium	325	High	1
10B	4		0	Yes	20	Low	300	Low	3
10C	1		0	Yes	0	NONE	125	Low	3
10D	1	N/A	0	Yes	55	Low	55	Low	3
10D	2	N/A	100	Yes	0	NONE	35	Low	3
10D	3	N/A	0	Yes	90	Low	150	Low	3
10D	4	Fill Slope	0	Yes	100	Medium	140	Medium	2
10D	5	N/A	0	Yes	0	NONE	350	High	2
10E	1	Fill Slope	0	Yes	75	Medium	95	High	2
10E	2	N/A	0	Yes	15	Low	120	Medium	3
10E	3		0	Yes	0	NONE	25	Low	3
10F	1	Fill Slope	0	Yes	150	Medium	325	High	1
10G	1		500	Yes	0	NONE	220	Medium	3
11A	1		0	Yes	1400	Low	1400	Medium	2
11A	2	Fill Slope	0	Yes	60	Low	70	Low	3
11A	3	Fill Slope	0	Yes	55	Low	55	Low	3
11A	4	Fill Slope	0	Yes	60	Low	100	Low	3
11A	5	N/A	0	Yes	150	Low	150	Low	3
11A	6	N/A	0	Yes	70	Low	70	Low	2
11B	1	N/A	0	Yes	80	Low	80	Low	3
11B	2	N/A	0	Yes	70	Medium	70	Medium	3
15A	1		0	Yes	50	Low	50	Low	3
15A	2		0	Yes	55	Medium	65	Medium	2
15A	3	N/A	0	Yes	80	Low	80	Medium	3
15A	4	Fill Slope	0	Yes	45	Low	70	Medium	3
15A	5		0	Yes	20	Low	30	Low	3
15A	6		0	Yes	40	Low	55	Medium	3
15A	7		0	Yes	120	Low	150	Low	3
15A	8	Adjacent Stream Crossing	0	Yes	0	NONE	80	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS E	GPS N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
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Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
15A	9	Fill Slope	SWALE	36	N/A	N/A	N/A	N/A	N/A

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
15A	9		0	Yes	0	NONE	145	Low	3
15A	10		500	Yes	0	NONE	40	Medium	3
15A	11		0	Yes	35	Low	100	Medium	2

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
15F	8	03/14/02	531116	4499386	NPS	2WD	Non-DG	Road	10	Flat with Berm	Access
15F	9	03/14/02	531063	4499334	NPS	2WD	Non-DG	Road	10	OUTSLOPED	Access
15F	10	03/14/02	530954	4499298	NPS	2WD	Non-DG	Road	8	INSLOPED	Access
15F	11	03/14/02	530919	4499420	NPS	2WD	Non-DG	Road	10	OUTSLOPED WITH BERM	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
15F	8	Fill Slope	Culvert	N/A	30	30	Road Draining Relief	8	Good
15F	9	Fill Slope	Culvert	45	24	40	In Channel	13	Good
15F	10	Fill Slope	Culvert	10	24	40	In Channel	8	Good
15F	11	Fill Slope	Culvert	20	24	40	In Channel	30	Good
15F	12	Fill Slope	Culvert	30	30	40	In Channel	40	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
15F	8	Working	No	No	On Grade	HALF PIPE	Low	>50	58
15F	9	Working	Yes	Yes	NONE	Shotguned	Low	>50	21
15F	10	Working	No	No	NONE	Shotguned	Medium	>50	33
15F	11	Working	NO	NO	On Grade	Shotguned	Low	50	233
15F	12	Working	NO	NO	On Grade	Shotguned	High	>50	363
15F	13	Working	NO	NO	NONE	Shotguned	High	>50	523

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
15F	8	Adjacent Cross Drain	0	Yes	35	Low	60	Low	2
15F	9	Adjacent Cross Drain	0	Yes	0	NONE	20	Low	3
15F	10	Fill Slope	0	Yes	0	NONE	25	Medium	3
15F	11	Adjacent Stream Crossing	0	Yes	0	NONE	230	Low	3
15F	12	Adjacent Stream Crossing	0	Yes	30	Medium	110	Medium	2
15F	13	ADJACENT STREAM	0	Yes	90	Low	625	Medium	2
15F	14	Adjacent Stream Crossing	0	Yes	0	NONE	100	Low	3
15F	15	Adjacent Stream Crossing	0	Yes	0	NONE	20	Low	3

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS E	GPS N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
15G	29	03/27/02	530338	4498597	NPS	2WD	Non-DG	Road	6	FLAT	Access
15G	30	03/27/02	530327	4498605	NPS	2WD	Non-DG	Road	6	FLAT	Access
15G	31	03/27/02	530250	4498637	NPS	2WD	Non-DG	Road	6	FLAT	Access
15G	32	03/27/02	530183	4498647	NPS	2WD	Non-DG	Road	6	FLAT	Access
15G	33	03/27/02	530129	4498655	NPS	2WD	Non-DG	Road	4	FLAT	Access
15G	34	03/27/02	530056	4498648	NPS	2WD	Non-DG	Road	6	Flat with Berm	Access
15G	35	03/27/02	529972	4498713	NPS	2WD	Non-DG	Road	5	FLAT	Access
15G	36	03/27/02	529905	4498786	NPS	2WD	Non-DG	Road	4	FLAT	Access
15G	37	03/27/02	529814	4498718	NPS	2WD	Non-DG	Road	4	FLAT	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
15G	29	Fill Slope	Culvert	26	18	20	In Channel	15	Good
15G	30	Fill Slope	SWALE	28	N/A	N/A	N/A	N/A	N/A
15G	31	Fill Slope	Culvert	25	24	40	In Channel	0	Good
15G	32	Fill Slope	SWALE	30	N/A	N/A	N/A	N/A	N/A
15G	33	Fill Slope	SWALE	38	N/A	N/A	N/A	N/A	N/A
15G	34	Fill Slope	Culvert	25	30	30	In Channel	12	Good
15G	35	Fill Slope	Culvert	35	24	30	In Channel	12	Good
15G	36	Fill Slope	SWALE	28	N/A	N/A	N/A	N/A	N/A
15G	37	Fill Slope	SWALE	25	N/A	N/A	N/A	N/A	N/A
15G	38	Fill Slope	Culvert	16	12	20	In Channel	12	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
15G	29	N/A	0	Yes	0	NONE	90	Low	3
15G	30		0	Yes	0	NONE	60	Low	3
15G	31	N/A	0	Yes	90	Low	90	Medium	3
15G	32		0	Yes	0	NONE	60	Low	3
15G	33		0	Yes	40	Low	90	Medium	2
15G	34	N/A	0	Yes	240	Medium	300	High	2
15G	35	N/A	0	Yes	40	Low	90	Low	3
15G	36		0	Yes	0	NONE	60	Low	3
15G	37		0	Yes	0	NONE	40	Low	3
15G	38	N/A	0	Yes	150	Medium	150	High	2
15G	39				150	High	180	High	1
15G	40				90	Low	175	High	2

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
15SS	29	02/26/02	533093	4499466	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
15SS	30	02/26/02	532914	4499430	NPS	2WD	Non-DG	Road	4	0	Access
15SS	31	02/26/02	532757	4499335	NPS	2WD	Non-DG	Road	10	OUTSLOPED	Access
15SS	32	02/26/02	532714	4499206	NPS	2WD	Non-DG	Road	4	OUTSLOPED	Access
15SS	33	02/26/02	532730	4499157	NPS	2WD	Non-DG	Road	4	OUTSLOPED	Access
15SS	34	02/26/02	532677	4499128	NPS	2WD	Non-DG	Road	6	OUTSLOPED	Access
15SS	35	02/26/02	532548	4499095	NPS	2WD	Non-DG	Road	5	OUTSLOPED	Access
15SS	36	02/26/02	532401	4499171	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
15SS	37	02/26/02	532232	4499325	NPS	2WD	Non-DG	Road	8	INSLOPED	Access
15SS	38	02/26/02	532152	4499122	NPS	2WD	Non-DG	Road	6	OUTSLOPED	Access
15SS	39	02/26/02	532114	4499157	NPS	2WD	Non-DG	Road	4	OUTSLOPED	Access
15SS	40	02/26/02	532023	4499233	NPS	2WD	Non-DG	Road	6	INSLOPED	Access
15SS	41	02/26/02	531902	4499284	NPS	2WD	Non-DG	Road	4	INSLOPED	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
15SS	29	Fill Slope	Culvert	40	18	60	In Channel	20	Good
15SS	30	Fill Slope	Culvert	40	18	60	In Channel	15	Good
15SS	31	Fill Slope	Culvert	40	18	60	In Channel	15	Good
15SS	32	Fill Slope	SWALE	N/A	N/A	N/A	N/A	N/A	N/A
15SS	33	Fill Slope	Culvert	24	24	80	In Channel	120	Good
15SS	34	Fill Slope	Culvert	32	15	40	In Channel	15	Good
15SS	35	Fill Slope	Culvert	25	18	80	In Channel	120	Good
15SS	36	Fill Slope	Culvert	34	18	60	In Channel	24	Good
15SS	37	Fill Slope	Culvert	N/A	18	40	Road Draining Relief	2	Good
15SS	38	Fill Slope	Culvert	12	36	80	In Channel	108	Good
15SS	39	Fill Slope	SWALE	36	N/A	N/A	N/A	N/A	N/A
15SS	40	Fill Slope	Culvert	40	18	60	In Channel	27	Fair
15SS	41	Fill Slope	SWALE	38	N/A	N/A	N/A	N/A	N/A
15SS	42	Fill Slope	Culvert	24	15	40	In Channel	14	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
15SS	29	Working	No	No	NONE	Shotguned	Low	>50	194
15SS	30	Working	No	No	NONE	Shotguned	Low	None	76
15SS	31	Working	Yes	No	NONE	Shotguned	Medium	None	194
15SS	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500
15SS	33	Working	No	No	NONE	NONE	High	None	850
15SS	34	Working	No	No	NONE	Shotguned	Low	None	523
15SS	35	Working	No	No	NONE	ON HILLSLOPE	Low	None	850
15SS	36	Working	No	No	NONE	Shotguned	Low	None	109
15SS	37	Working	Yes	Yes	NONE	NONE	Low	>50	15
15SS	38	Working	No	No	NONE	Shotguned	Low	None	712
15SS	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
15SS	40	Working	No	No	NONE	Shotguned	High	None	148
15SS	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
15SS	42	Working	No	No	NONE	Shotguned	Medium	None	131
15SS	43	Working	No	No	On Grade	On Grade	Low	None	712

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
15SS	29	Fill Slope	0	Yes	0	NONE	200	Medium	2
15SS	30	N/A	0	Yes	0	NONE	75	Low	3
15SS	31	N/A	0	Yes	0	NONE	200	Low	3
15SS	32		0	Yes	0	NONE	30	Low	3
15SS	33	N/A	0	Yes	50	Medium	200	Medium	2
15SS	34	N/A	0	Yes	0	NONE	130	Low	3
15SS	35	N/A	0	Yes	60	Low	110	Medium	3
15SS	36	N/A	0	Yes	0	NONE	110	Low	3
15SS	37	Adjacent Stream Crossing	0	Yes	0	NONE	80	Low	3
15SS	38	N/A	0	Yes	200	Medium	350	High	2
15SS	39		0	Yes	0	NONE	75	Low	3
15SS	40	N/A	0	Yes	35	Low	150	Medium	3
15SS	41		0	Yes	0	NONE	30	Low	3
15SS	42	N/A	0	Yes	0	NONE	40	Low	3
15SS	43	N/A	0	Yes	500	Medium	700	High	2
16A	1		0	Yes	30	Low	80	Medium	2

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
16CLN	12	04/19/01	522573	4501136	PRIVATE	2WD	DG	Road	3	OUT SLOPED	Access
16CLN	13	04/19/01	521817	4502532	BLM	2WD	DG	Road	6	Flat with Berm	Access
16CLN	14	04/19/01	521932	4502669	BLM	2WD	DG	Road	7	IN SLOPED	Access
16CLN	15	04/19/01	521917	4502845	BLM	2WD	DG	Road	8	Flat with Berm	Access
16CLN	16	04/19/01	521944	4502867	PRIVATE	2WD	DG	Road	8	Flat with Berm	Access
16CLN	17	04/19/01	521988	4502878	PRIVATE	2WD	DG	Road	8	IN SLOPED	Access
16CLN	18	04/19/01	522083	4502925	PRIVATE	2WD	DG	Road	8	IN SLOPED	Access
16CLN	19	04/19/01	521941	4502994	PRIVATE	2WD	DG	Road	8	IN SLOPED	Access
16CLN	20	04/19/01	521837	4503016	BLM	2WD	DG	Road	8	IN SLOPED	Access
16CLN	21	04/19/01	521741	4503076	BLM	2WD	DG	Road	6	IN SLOPED	Access
16CLN	22	04/19/01	521587	4503219	BLM	2WD	DG	Road	8	IN SLOPED	Access
16CLN	23	04/19/01	521343	4503401	BLM	2WD	DG	Road	8	Flat with Berm	Access
16CLN	24	04/19/01	521366	4503507	BLM	2WD	DG	Road	8	IN SLOPED	Access
16CLN	25	04/19/01	521372	4503548	BLM	2WD	DG	Road	8	INSLOPED WITH BERM	Access
16CLN	26	04/19/01	521276	4503754	BLM	2WD	DG	Road	8	INSLOPED WITH BERM	Access
16CLN	27	04/19/01	521277	4503800	BLM	2WD	DG	Road	8	INSLOPED WITH BERM	Access
16CLN	28	04/19/01	521208	4503909	BLM	2WD	DG	Road	8	INSLOPED WITH BERM	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
16CLN	12	Fill Slope	Culvert	N/A	24	30	ABANDONED	UNK	POOR
16CLN	13	Fill Slope	Culvert	N/A	18	30	Road Draining Relief	8	Fair
16CLN	14	Fill Slope	Culvert	N/A	24	30	Road Draining Relief	20	Good
16CLN	15	Fill Slope	Culvert	40	24	30	Road Draining Relief	24	Good
16CLN	16	Fill Slope	Culvert	55	24	60	SWALE	UNK	POOR
16CLN	17	Fill Slope	SWALE, SPRING	48	N/A	N/A	N/A	N/A	N/A
16CLN	18	Fill Slope	Culvert	N/A	24	20	Road Draining Relief	2	Good
16CLN	19	Fill Slope	Culvert	55	24	30	SWALE	23	Good
16CLN	20	Fill Slope	Culvert	N/A	24	40	Road Draining Relief	18	Good
16CLN	21	Fill Slope	Culvert	N/A	18	30	Road Draining Relief	22	Good
16CLN	22	Fill Slope	Culvert	48	24	20	SWALE	20	Good
16CLN	23	Fill Slope	Culvert	48	18	40	SWALE	3	POOR
16CLN	24	Fill Slope	Culvert	50	16	40	SWALE	10	POOR
16CLN	25	Fill Slope	SWALE, SPRING	58	N/A	N/A	N/A	N/A	N/A
16CLN	26	Fill Slope	Road Drainage	45	N/A	N/A	N/A	N/A	N/A
16CLN	27	Fill Slope	Culvert	N/A	18	30	Road Draining Relief	8	POOR
16CLN	28	Fill Slope	STREAM DIVERSION	45	N/A	N/A	N/A	N/A	N/A
16CLN	29	Fill Slope	Culvert	45	18	30	In Channel	20	POOR

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
16CLN	12	Fill Slope	0	Yes	55	Low	55	Low	3
16CLN	13	Hill Slope	0	Yes	55	Low	55	Low	3
16CLN	14	Adjacent Stream Crossing	0	Yes	55	Low	55	Low	3
16CLN	15	Adjacent Cross Drain	0	Yes	100	Low	100	Low	3
16CLN	16	Adjacent Stream Crossing	0	Yes	100	Medium	100	High	2
16CLN	17		0	Yes	150	Medium	200	High	2
16CLN	18	Adjacent Stream Crossing	0	Yes	55	Low	55	Medium	3
16CLN	19	Adjacent Cross Drain	0	Yes	200	Medium	200	High	2
16CLN	20	Adjacent Stream Crossing	0	Yes	100	Low	100	Low	3
16CLN	21	Hill Slope	0	Yes	200	Medium	200	High	2
16CLN	22	Adjacent Cross Drain	0	Yes	100	Medium	100	High	2
16CLN	23	Fill Slope	0	Yes	900	Medium	900	High	1
16CLN	24	Adjacent Stream Crossing	0	Yes	200	Medium	200	High	1
16CLN	25		0	Yes	475	Low	475	Medium	2
16CLN	26		0	Yes	1900	Medium	1900	High	1
16CLN	27	Adjacent Stream Crossing	0	Yes	90	Medium	90	High	2
16CLN	28	Adjacent Stream Crossing	0	Yes	1240	Medium	1240	High	1
16CLN	29	Adjacent Stream Crossing	0	Yes	110	Medium	110	High	1
16CLN	30		0	Yes	150	Low	150	Medium	2
18A	1		0	Yes	120	Medium	190	Medium	2

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Date	GPS_E	GPS_N	Owner	Access	Soil	Location	Rd Grd	Road Construction	Rd Tp
19B	1	03/08/02	534112	4497409	NPS	2WD	Non-DG	Road	6	Flat with Berm	Access
19B	2	03/08/02	534109	4497337	NPS	2WD	Non-DG	Road	6	Flat with Berm	Access
19B	3	03/08/02	534140	4497222	NPS	2WD	Non-DG	Road	10	Flat with Berm	Access
19B	4	03/08/02	534019	4497030	NPS	2WD	Non-DG	Road	12	Flat with Berm	Access
19B	5	03/08/02	534094	4496964	NPS	2WD	Non-DG	Road	6	Flat with Berm	Access
19SS	1	02/19/02	534837	4497126	NPS	2WD	Non-DG	Road	5	OUTSLOPED	Access
19SS	2	02/19/02	534715	4497088	NPS	2WD	Non-DG	Road	5	FLAT	Access
19SS	3	02/19/02	534615	4497099	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	4	02/19/02	534524	4497108	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	5	02/19/02	534454	4497293	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	6	02/19/02	534355	4497362	NPS	2WD	Non-DG	Road	10	OUTSLOPED	Access
19SS	7	02/19/02	534259	4497448	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	8	02/19/02	534249	4497484	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	9	02/19/02	534244	4497598	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	10	02/19/02	534273	4497742	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	11	02/19/02	534479	4497786	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	12	02/19/02	534486	4497909	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
19SS	13	02/19/02	534504	4498017	NPS	2WD	Non-DG	Road	8	OUTSLOPED	Access
20A	1	03/07/02	535897	4495516	NPS	2WD	DG	Road	10	OUTSLOPED	Access
20A	2	03/07/02	535872	4495407	NPS	2WD	DG	Road	10	OUTSLOPED	Access
20A	3	03/07/02	535854	4495353	NPS	2WD	DG	Road	2	FLAT	Access

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Feature	Cause	Ch Grd	CMP Sz	CMP Lng	CMP Location	Head Wall	CMP Cn
19B	1	Fill Slope	Culvert	18	12	20	In Channel	1	Good
19B	2	Fill Slope	Culvert	15	18	20	In Channel	2	Good
19B	3	Fill Slope	Culvert	15	24	20	In Channel	2	Good
19B	4	Fill Slope	NO CULVERT	15	N/A	N/A	N/A	N/A	N/A
19B	5	Fill Slope	NO CULVERT	18	N/A	N/A	N/A	N/A	N/A
19SS	1	Fill Slope	Culvert	N/A	18	20	Road Draining Relief	10	Fair
19SS	2	Fill Slope	Culvert	15	18	20	IN CHANNEL	12	Good
19SS	3	Fill Slope	Culvert	12	30	20	IN CHANNEL	6	Good
19SS	4	Fill Slope	Culvert	N/A	12	20	Road Draining Relief	14	Good
19SS	5	Fill Slope	Culvert	10	48	40	IN CHANNEL	20	Good
19SS	6	Fill Slope	Culvert	10	48	30	IN CHANNEL	4	Good
19SS	7	Fill Slope	Culvert	12	24	40	In Channel	6	Good
19SS	8	Fill Slope	Culvert	10	18	20	In Channel	15	Good
19SS	9	Fill Slope	SWALE DIVERSION	18	N/A	N/A	N/A	N/A	N/A
19SS	10	Fill Slope	Culvert	18	30	40	In Channel	24	Good
19SS	11	Fill Slope	Culvert	N/A	15	20	Road Draining Relief	24	Good
19SS	12	Fill Slope	SWALE	32	N/A	N/A	N/A	N/A	N/A
19SS	13	Fill Slope	Culvert	25	15	40	In Channel	24	Good
20A	1	Fill Slope	Culvert	10	16	30	In Channel	12	Good
20A	2	Fill Slope	Culvert	40	16	20	In Channel	12	Good
20A	3	Fill Slope	Culvert	45	16	20	In Channel	12	Good
20A	4	Fill Slope	Culvert	5	36	30	In Channel	6	Good

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	CMP is	CMP OT	CMP PD	CMP In Cntrl	CMP Out Cntrl	Plug Pt	Dv Pot	Xing Vlm
19B	1	OTHER	Yes	No	NONE	NONE	High	None	55
19B	2	Working	No	No	NONE	NONE	Medium	None	79
19B	3	Working	No	No	NONE	NONE	Low	None	79
19B	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
19B	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
19SS	1	Working	No	No	NONE	NONE	Medium	None	10
19SS	2	Working	No	No	NONE	NONE	Low	>50	39
19SS	3	Working	No	No	NONE	NONE	Low	>50	87
19SS	4	Working	No	No	NONE	NONE	Low	>50	10
19SS	5	Working	No	No	FLARED	Shotguned	Low	None	148
19SS	6	Working	No	No	FLARED	Shotguned	Low	None	148
19SS	7	Working	No	No	NONE	NONE	Low	<50	87
19SS	8	Working	No	No	NONE	Shotguned	Medium	<50	87
19SS	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
19SS	10	Working	No	No	NONE	NONE	High	None	242
19SS	11	Working	No	No	NONE	HALF PIPE	Low	None	10
19SS	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
19SS	13	Working	NO	No	NONE	HALF PIPE	Low	None	87
20A	1	Working	No	No	On Grade	Shotguned	Low	None	155
20A	2	Working	No	No	NONE	HALF PIPE	Low	None	119
20A	3	Working	No	No	NONE	Shotguned	Low	None	61
20A	4	Working	No	No	NONE	Shotguned	Low	None	349
21SS	23	Working	No	No	NONE	NONE	Low	None	300

Appendix E Continued

UPPER CLEAR CREEK EROSION INVENTORY DATABASE

Seg	Prb	Receiving Feature	Ft to Chnl	Enter Chnl	<Sed Yld	<Sed Pot	>Sed Yld	>Sed Pot	Immed Att
19B	1	N/A	0	Yes	60	Medium	60	High	1
19B	2	N/A	0	Yes	60	Low	80	Medium	3
19B	3	N/A	0	Yes	50	Low	80	Medium	3
19B	4		0	Yes	50	Medium	200	Medium	2
19B	5		0	Yes	110	Low	110	Medium	2
19SS	1	N/A	500	NO	0	NONE	0	NONE	3
19SS	2	Adjacent Cross Drain	0	Yes	0	NONE	40	Low	3
19SS	3	Adjacent Stream Crossing	0	Yes	0	NONE	90	Low	3
19SS	4	Adjacent Stream Crossing	0	Yes	0	NONE	0	NONE	3
19SS	5	N/A	0	Yes	30	Low	150	Low	3
19SS	6	N/A	0	Yes	25	Low	150	Low	3
19SS	7	Fill Slope	0	Yes	25	Low	90	Low	3
19SS	8	Fill Slope	0	Yes	20	Low	90	Medium	3
19SS	9		0	Yes	0	NONE	200	Medium	3
19SS	10	N/A	0	Yes	250	Low	250	Medium	2
19SS	11	N/A	N/A	NO	0	NONE	0	NONE	3
19SS	12		0	Yes	0	NONE	90	Low	3
19SS	13	N/A	0	Yes	0	NONE	90	Low	3
20A	1	N/A	0	Yes	0	NONE	150	Low	3
20A	2	N/A	0	Yes	0	NONE	90	Low	3
20A	3	N/A	0	Yes	15	Low	60	Low	3
20A	4	N/A	0	Yes	100	Low	200	Medium	2
21SS	23	N/A	0	Yes	0	NONE	0	NONE	3
21SS	24	N/A	0	Yes	0	NONE	40	Low	3

