

Table 1. Locations and descriptions of sample sites in and near the lower Clear Creek area

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Field site Sample	Date	Latitude	Longitude	SEDIMENT SAMPLES				WATER SAMPLES						Site description Sample description	
				Bulk sediment or bedrock	Sediment >2mm	Sediment <2mm	Sediment <63µm	RU (unfiltered unacid- ified) for Hg	FU (filtered unacidified) for anions	FA (filtered acidified) for metals	RA (unfiltered acidified) for metals	FU (filtered unacid- ified) for alkalinity	RU (unfiltered unacid- ified) for total carbon		
CC1		40° 29.921'	122° 24.876'												South Pond, north side
21CC01	8/27/01			21CC01- WAS			21CC01- WBSF	21CC01W	21CC01- WA	21CC01- WB		21CC01- WD	21CC01- WTC	Clear water, away from turbidity plume, bottom sediment	
CC2		40° 30.246'	122° 24.206'												East Pond, south side near east end
21CC02	8/27/01			21CC02- WBS			21CC02- WASF	21CC02W	21CC02- WA	21CC02- WB		21CC02- WD	21CC02- WTC	Standing water (depth about 25cm) and bottom sediment	
22CC02	6/5/02			22CC02- SBA 22CC02- SB	22CC02- SC	22CC02- SF		22CC02W	22CC02- WA	22CC02- WB	22CC02- WC	22CC02- WD	22CC02- WTC	Standing water (depth about 25cm) and bottom sediment	
23CC02	7/29/03			23CC02- SB				23CC02W	23CC02- WC	23CC02- WA	23CC02- WB	23CC02- WD	23CC02- WTC	Standing water (depth about 25cm) and bottom sediment	
CC3		40° 29.881'	122° 24.860'												South Pond, south side
21CC03	8/28/01			21CC03- SA 21CC03- WSAB			21CC03- WSFB	21CC03W	21CC03- WA	21CC03- WB	21CC03- WC	21CC03- WD	21CC03- WTC	Turbid water in plume from introduced fill (local alluvial gravel)	
CC4 CC5 CC6		40° 29.896'	122° 24.932'												West side of South Pond
21CC04	8/28/01			21CC04- SA										Fill material derived from stream sediment	
21CC05	8/28/01			21CC05S										Composite of metamorphic-rock pebbles from fill	
21CC06	8/28/01			21CC06S										Composite of granitic-rock pebbles from fill	
CC7		40° 30.045'	122° 24.950'												Pond 3
21CC07	8/28/01			21CC07S 21CC07- ASB			21CC07B	21CC07W	21CC07- WA	21CC07- WB	21CC07- WC	21CC07- WD		Standing water (depth 10 cm) and bottom sediment	
CC8 CC9		40° 29.805'	122° 27.411'												Terrace surface adjacent to drainage/slucice cut in Nomlaki Tuff bedrock
21CC08	8/28/01				21CC08- SC	21CC08- SF1 21CC08-								Coarse tailings	

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21CC09	8/28/01			21CC09S		SF2								Nomlaki Tuff at sluice cut
CC10		40°29.738'	122°27.154'											Outlet of placer mine drainage tunnel cut in Nomlaki Tuff
21CC10	8/28/01			21CC10-SB1 21CC10-SB2					21CC10-WA	21CC10-WB	21CC10-WC	21CC10-WD		Tailings blocking outlet of drainage tunnel, and water ponded on these tailings
22CC10	6/5/02			22CC10-SB	22CC10-SC	22CC10-SF 22CC10-SM*	22CC10-SFA	22CC10W	22CC10-WA	22CC10-WB	22CC10-WC	22CC10-WD	22CC10-WTC	“
23CC10	1/29/03			23CC10-SB		23CC10-SF 23CC10-SM	23CC10-SFA	23CC10W	23CC10-WC	23CC10-WA	23CC10-WB	23CC10-WD		“
CC11		40° 29.737'	122° 27.344”											Gravel bar (bed of Clear Creek) about 1.4 km below Saeltzer Dam site
21CC11	8/28/01			21CC11-SB1 21CC11-SB2	21CC11-SC	21CC11-SF	21CC11-SVF	21CC11W	21CC11-WA	21CC11-WB	21CC11-WC	21CC11-WD		Water (depth 20-40 cm) and sediment
22CC11	6/5/02	“	“	22CC11-SB	22CC11-SC	22CC11-SF 22CC11-SM*	22CC11-SFA	22CC11W	22CC11-WA	22CC11-WB	22CC11-WC	22CC11-WD	22CC11-WTC	“
23ACC11	1/27/03	“	“					23ACC11W	23ACC11-WC	23ACC11-WA	23ACC11-WB	23ACC11-WD		“
23BCC11	1/28/03	“	“					23BCC11W	23BCC11-WC	23BCC11-WA	23BCC11-WB	23BCC11-WD		“
23CCC11	7/29/03	“	“	23CCC-11SB		23CCC-11SM	23CCC-11SF	23CCC11W	23CCC11-WC	23CCC11-WA	23CCC11-WB	23CCC11-WD	23CCC11-WTC	“
CC12		40° 30.052'	122° 29.196'											Red Pond, south end
21CC12	8/29/01			21CC12B				21CC12W	21CC12-WA	21CC12-WB1,2		21CC12-WD		Water, depth 10 cm, and underlying mud
22CC12	6/4/02	“	“	22CC12-SB				22CC12W	22CC12-WA	22CC12-WB	22CC12-WC	22CC12-WD	22CC12-WTC	“
23CC12	7/28/03	“	“	23CC12-SB				23CC12W	23CC12-WC	23CC12-WA	23CC12-WB	23CC12-WD	23CC12-WTC	“
CC13		40° 30.066'	122° 29.205’											Short prospect tunnel in Tehama Fm. gravels, low ridge E. of Red Pond
21CC13	8/29/01			21CC13B	21CC13-SC	21CC13-SF1 21CC13-SF2								Tehama Fm. gravels exposed in tunnel
21CC13	8/29/01			21CC13ST										Nomlakai Tuff above tunnel
CC14		40° 29.921'	122° 29.114'											Flood plain of Spring Creek
21CC14	8/29/01			21CC14-	21CC14-	21CC14-								Dredge stacker

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				SB	SC	SF1 21CC14- SF2								tailings
CC15 CC16		40° 29.736'	122° 28.812'											Alluvial terrace N. side Clear Creek; backhoe trench (Schmidt Pit) near E. end of Shooting Gallery
21CC15	8/29/01			21CC15- CL1 21CC15- CL2										Sluice tailings (clay-silt)
21CC15	8/29/01			21CC15- SC1 21CC15- SC2										Sluice tailings (coarse sand)
21CC15	8/29/01			21CC15- SF1 21CC15- SF2										Sluice tailings (fine sand)
21CC16	8/29/01			21CC16B 21CC16- SB	21CC16- SC	21CC16- SF								Stacker tailings overlying sluice tailings (previous 3 samples)
CC17		40° 29.770'	122° 29.088'											Alluvial terrace of Clear Creek, near confluence of Spring Creek
21CC17	8/29/01			21CC17- SB	21CC17- SC	21CC17- SF1 21CC17- SF2								Dredge stacker tailings
CC18 CC19		40° 30.864'	122° 31.432'											Clear Creek at USGS Gauging Station (Igo Gauge)
21CC18	8/29/01			21CC18- SB1 21CC18- SB2				21CC18W	21CC18- WA	21CC18- WB1, 2	21CC18- WC1, 2	21CC18- WD		Water (depth 40-50 cm) and bottom sediment, W bank of Clear Creek
22CC18	6/5/02			22CC18- SB	22CC18- SC	22CC18- SF 22CC18- SM*	22CC18- SFA	22CC18W	22CC18- WA	22CC18- WB	22CC18- WC	22CC18- WD	22CC18- WTC	Water (depth 10-20 cm) and sediment, small backwater at entrance to overflow channel, W. bank of Clear Creek
23ACC18	1/27/03							23ACC18 W	23ACC18- WC	23ACC18- WA	23ACC18- WB	23ACC18- WD		Water, W. bank Clear Creek near overflow channel (depth 50 cm)
23B1CC1 8	1/27/03							23B1CC18 W	23B1CC18- WC	23B1CC18 - WA	23B1CC18 - WB	23B1CC18 - WD		Water (depth 20 cm) overflow channel on W. bank Clear Creek
23B2CC1 8	1/28/03							23B2CC18 W	23B2CC18- WC	23B2CC18 -WA	23B2CC18 - WB	23B2CC18 -WD		“
23CCC18	7/29/03			23CCC18-		23CCC18-	23CCC18-	23CCC18	23CCC18-	23CCC18-	23CCC18-	23CCC18-	23CCC18-	Same as 22CC18

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				SB		SM*	SF	W	WC	WA	WB	WD	WTC	
21CC19	8/29/01			21CC19-SB1 21CC19-SB2										Sand deposited in overflow channel, W. side Clear Creek
CC20		40°29.907'	122°29.122'											Flood plain of Spring Creek
22CC20	5/30/02			22CC20-SB	22CC20-SC	22CC20-SF								Dredge stacker tailings
CC21		40°29.742'	122°28.898'											Alluvial terrace of Clear Creek, N. side of Shooting Gallery
22CC21	5/30/02			22CC21-SB	22CC21-SC	22CC21-SF								Dredge stacker tailings
CC22 CC23		40°29.727'	122°28.940'											Alluvial terrace N. side Clear Creek; backhoe trench near W. end of Shooting Gallery
22CC22	5/30/02			22CC22-SB	22CC22-SC	22CC22-SF								Mixed stacker and sluice tailings
22CC23	5/30/02			22CC23-SB										Sluice sand
CC24		40°29.480'	122°29.688'											Reading Bar borrow area, N. side of Clear Creek (probably originally an alluvial terrace)
22CC24	5/30/02			22CC24-SB	22CC24-SC	22CC24-SF								Regraded and revegetated stacker tailings
CC25		40°30.300'	122°24.200'											Alluvial terrace at China Garden, N. of Clear Creek (unmined)
22CC25	5/31/02				22CC25-SC	22CC25-SF								Pebbly fluvial sand exposed in trench
CC26		40°30.034'	122°25.207'											Restored flood plain, N. side of Clear Creek in Restoration Grove area
22CC26	5/31/02			22CC26-SB	22CC26-SC	22CC26-SF								Regraded and revegetated stacker tailings
CC27		40°30.130'	122°29.303'											Granitic rock outcrop area N. of Red Pond
22CC27	6/4/02							22CC27W	22CC27-WA	22CC27-WB	22CC27-WC	22CC27-WD	22CC27-WTC	Water from seep along fracture in granitic rock
23CC27	7/28/03	“	“					23CC27W	23CC27-WC	23CC27-WA	23CC27-WB	23CC27-WD	23CC27-WTC	“
CC28		40°30.233'	122°29.232'											Actively degassing artesian well, upper Spring Creek drainage
22CC28	6/4/02			22CC28-SB				22CC28W	22CC28-WA	22CC28-WB	22CC28-WC	22CC28-WD	22CC28-WTC	Water from well (blocked at depth of 50 cm) and mud

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														including chemical precipitate around well head
CC29		40°29.463'	122°29.726'											Clear Creek at Reading Bar
22CC29	6/4/02			22CC29-SB	22CC29-SC	22CC29-SM*	22CC29-SF	22CC29W	22CC29-WA	22CC29-WB	22CC29-WC	22CC29-WD	22CC29-WTC	Water (depth 10-320 cm) and bottom sediment
23ACC29	1/27/03	“	“					23ACC29W	23ACC29-WC	23ACC29-WA	23ACC29-WB	23ACC29-WD		“
23BCC29	1/28/03	“	“					23BCC29W	23BCC29-WC	23BCC29-WA	23BCC29-WB	23BCC29-WD		“
23CCC29	7/28/03	“	“	23CCC29-SB	23CCC29-SM	23CCC29-SF		23CCC29W	23CCC29-WC	23CCC29-WA	23CCC29-WB	23CCC29-WD	23CCC29-WTC	“
CC30		40°30.567'	122°22.766'											Clear Creek about 30m upstream from SR 273 bridge
22CC30	6/5/02			22CC30-SB	22CC30-SC	22CC30-SF 22CC30-SM*	22CC30-SFA	22CC30W	22CC30-WA	22CC30-WB	22CC30-WC	22CD30-WD	22CC30-WTC	Water (depth 10-40 cm) and sediment from bar adjacent to N. bank
23ACC30	1/27/03	“	“					23ACC30W	23ACC30-WC	23ACC30-WA	23ACC30-WB	23ACC30-WD		“
23BCC30	1/28/03	“	“					23BCC30W	23BCC30-WC	23BCC30-WA	23BCC30-WB	23BCC30-WD		“
23CCC30	7/29/03	“	“	23CCC30-SB	23CCC30-SM	23CCC30-SFA		23CCC30W	23CCC30-WC	23CCC30-WA	23CCC30-WB	23CCC30-WD	23CCC30-WTC	“
CC31		40°29.803'	122°27.135'											Sluice cut, 10m upstream from inlet to placer mine drainage tunnel
23CC31	1/29/03			23CC31-SB		23CC31-SF 23CC31-SM	23CC31-SFA	23BCC31W	23BCC31-WC	23BCC31-WA	23BCC31-WB	23BCC31-WD		Water (depth 10 cm) and sediment from bed of sluice cut
CC32		40°29.865'	122°27.105'											Catchment pond with rip-rap spillway, below constructed wetlands
23CC32	1/29/03			23CC32-SB				23CC32W	23CC32-WC	23CC32-WA	23CC32-WB	23CC32-WD		Standing water (depth 5 cm) and underlying mud
CC33		40°29.938'	122°27.191'											Constructed wetlands pond, S. of access road
23CC33	1/29/03			23CC33-SB				23CC33W	23CC33-WC	23CC33-WA	23CC33-WB	23CC33-WD		Standing water (depth 10 cm) and underlying mud
CC34		40°29.812'	122°27.418'											Beaver Pond, a seasonal pond behind blocked placer mine sluice/drainage cut
23CC34	1/29/03			23CC34-SB				23CC34W	23CC34-WC	23CC34-WA	23CC34-WB	23CC34-WD		Seasonal pond occupying blocked hydraulic drainage cut
CC35		40°30.067'	122°29.241'	23CC35-										Small pond about 20

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				SB										m north of Red Pond
23CC35	7/28/03							23CC35W	23CC35-WC	23CC35-WA	23CC35-WB	23CC35-WD	23CC35-WTC	Water (depth 10-20 cm) and bottom mud
CC36		40°30.006'	122°25.184'											Clear Creek at downstream end of Restoration Grove
23CC36	7/28/03			23CC36-SB		23CC36-SM	23CC36-SF	23CC36W	23CC36-WC	23CC36-WA	23CC36-WB	23CC36-WD	23CC36-WTC	Water (depth 10 cm) and thin sediment overlying "hard pan" (Nomlaki Tuff bedrock)

Color code:

Red: analyzed by Frontier Geosciences, Inc.

Green: analyzed by ALS Chemex, Inc.

Black: analyzed by U.S. Geological Survey, Mineral Resource Surveys, Denver

*Size range <2mm>63µm