

# Equipment Costs

<b>File Name:</b>	Copper_Flat_CDF_191000_060_FNL_2018
<b>Date:</b>	July 1, 2018
<b>Cost Basis:</b>	User Data
<b>Author/Source:</b>	0

	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

## MONTHLY EQUIPMENT RATE TABLE [Cost Per Month] <sup>(1)</sup>

EQUIPMENT TYPE <sup>(2)</sup>	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Copper Flat FA				
<b>Bulldozers</b>					
D6T	7,000	Cat D6K2XL Dozer; SRK Consulting Equipm		6,570	Added 6.94%
D6R w/ Winch	7,000	Assume same as D6T		6,570	sales tax and
D7E	19,600	D7; SRK.TH.05.04.18.xlsx		18,300	rounded to the
D8T	21,600	D8; SRK.TH.05.04.18.xlsx		20,180	nearest \$100.
D9T	32,200	D9; SRK.TH.05.04.18.xlsx		30,100	"
D10T2	47,600	D10; SRK.TH.05.04.18.xlsx		44,500	"
D11T	56,200	Copper Flats - Blue Book Equipment Rates.x		56,234	
<b>Wheeled Dozers</b>					
824K	19,800	Copper Flats - Blue B; Cat 824H		19,849	
834K	24,900	Copper Flats - Blue Book Equipment Rates.x		24,929	
844K	33,700	Copper Flats - Blue B; Cat 844H		33,734	
854K	33,800	Copper Flats - Blue B; Cat 854G		33,802	
<b>Motor Graders</b>					
12M2	9,300	Cat 120M2 Motor Grader; SRK Consulting E		8,670	Added 6.94%
14M	15,800	14M; SRK.TH.05.04.18.xlsx		14,790	sales tax and
16M3	18,800	Copper Flats - Blue Book Equipment Rates.x		18,806	rounded to the
24M	22,100	x1.1 neighbor		20,686	nearest \$100.
<b>Track Excavators</b>					
312F	6,000	Cat 312EL Excavator; SRK Consulting Equip		5,610	Added 6.94%
320F	8,300	Cat 320EL Excavator; SRK Consulting Equip		7,750	sales tax and
325F	11,500	329; SRK.TH.05.04.18.xlsx		10,750	rounded to the
330F	12,300	336; SRK.TH.05.04.18.xlsx		11,500	nearest \$100.
349F	17,900	349; SRK.TH.05.04.18.xlsx		16,730	
374F	23,100	Copper Flats - Blue B; Cat 374D L		23,119	
390F	28,500	Copper Flats - Blue B; Cat 390D L		28,472	
<b>Scrapers</b>					
631K	29,600	631; SRK.TH.05.04.18.xlsx		27,700	Added 6.94%
637K	36,800	Copper Flats - Blue B; Cat 637G		36,819	sales tax.
<b>Wheeled Loaders</b>					
926M	6,000	Cat 924K Loader; SRK Consulting Equipmer		5,610	Added 6.94%
930M	7,000	Cat 930M Loader; SRK Consulting Equipmer		6,530	sales tax and
950M	10,200	950; SRK.TH.05.04.18.xlsx		9,520	rounded to the
966M	12,300	average		11,500	nearest \$100.
972M	14,400	972; SRK.TH.05.04.18.xlsx		13,480	"
980M	16,800	980; SRK.TH.05.04.18.xlsx		15,690	"
988K	19,600	Copper Flats - Blue Book Equipment Rates.x		19,589	
990K	28,300	Copper Flats - Blue Book Equipment Rates.x		28,299	
992K	41,100	Copper Flats - Blue Book Equipment Rates.x		41,068	
994K	45,200	x1.1 neighbor		45,175	
L2350	82,600	Copper Flats - Blue Book Equipment Rates.x		82,607	
<b>Shovels/Excavators</b>					
PC2000	70,900	Copper Flats - Blue B; EX1900		70,917	
PC3000	72,500	average		72,526	
PC4000	74,100	Copper Flats - Blue B; EX3600		74,135	
PC5500	81,500	x1.1 neighbor		81,548	
PC8000	89,700	x1.1 neighbor		89,703	
EX2500	87,900	Copper Flats - Blue B; EX2500-6		87,877	
<b>Hydraulic Hammers</b>					
H120Es (fits 325)	3,400	Copper Flats - Blue Book Equipment Rates.x		3,420	
H160Es (fits 349)	7,000	Copper Flats - Blue Book Equipment Rates.x		7,028	
H180Es (fits 374/390)	8,200	Copper Flats - Blue Book Equipment Rates.x		8,168	
<b>Demolition Shears</b>					
S3050 (fits 320/325/330)	3,500	Copper Flats - Blue B; BTI SH310R		3,524	
S3070 (fits 330/349)	4,100	Copper Flats - Blue B; BTI SH410R		4,131	
S3090 (fits 374/390)	6,600	Copper Flats - Blue B; BTI SH700R		6,593	
<b>Demolition Grapples</b>					
G315B (fits 320/325)					
G320B (fits 325/330)					
G330 (fits 349/374)					

# Equipment Costs

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	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

Other Equipment					
420F2	3,500	Cat 420F 4WD Backhoe; SRK Consulting Ed	3,240	Added 6.94%	
430F2	4,100	Cat 430F 4WD Ext Backhoe; SRK Consulting	3,870	sales tax.	
CS54B	4,400	Copper Flats - Blue Book Equipment Rates.x	4,402		
CS64B	4,300	Copper Flats - Blue B Amann AC110	4,291		
CP54B	4,100	Copper Flats - Blue B Bomag BW211 PD-5	4,085		
CP68B	6,600	Copper Flats - Blue B Bomag BW213 PDH-4	6,588		
Light Truck - 1.5 Ton	2,200	Copper Flats - Blue B Single Axle Lube Truc	2,184		
Supervisor's Truck	800	Copper Flats - Blue B 3/4 Ton 4x4	834		
Flatbed Truck	600	Copper Flats - Blue B On-Highway Flatbed T	621		
Air Compressor + tools	600	Copper Flats - Blue B 185 CFM Diesel Air C	597		
Welding Equipment	400	Copper Flats - Blue B 4 Pack Welding Syste	405		
Heavy Duty Drill Rig	52,000	Copper Flats - Blue B IR DMM3	52,018		
Pump (plugging) Drill Rig	52,000	assume same as heavy duty drill rig	52,018		
Concrete Pump	14,900	p. 540 of RSMeans 2018 - 01 54 33 10 2120	14,864		
Gas Engine Vibrator	400	Copper Flats - Blue B Hand Held Vibratory F	357		
Generator 5KW	900	Copper Flats - Blue B Small Generator Set (	938		
HDEP Welder (pipe or liner)	7,000	p. 544 of RSMeans 2018 - 01 54 33 40 1690	7,023		
5 Ton Crane	7,200	x0.9 neighbor	7,160		
20 Ton Crane	8,000	Copper Flats - Blue B Tadan GR-150XL-1 (1	7,955		
50 Ton Crane	15,200	Copper Flats - Blue B Grove TMS700E	15,154		
120 Ton Crane	28,900	Copper Flats - Blue B Grove GMK5120B	28,943		

Trucks					
725C	10,800	Copper Flats - Blue B Cat 725, model not sp	10,824		
730C	15,700	SRK CONSULT QUOTE.pdf	14,640	Added 6.94%	
735C	17,900	average	16,730	sales tax.	
740C	20,100	SRK CONSULT QUOTE.pdf	18,820	"	
770G	15,200	Copper Flats - Blue Book Equipment Rates.x	15,155		
773G	18,300	Copper Flats - Blue Book Equipment Rates.x	18,267		
777G	37,200	Copper Flats - Blue Book Equipment Rates.x	37,226		
785D	40,900	x1.1 neighbor	40,948		
789D	45,000	x1.1 neighbor	45,043		
793F	49,500	x1.1 neighbor	49,547		
797F	89,200	Copper Flats - Blue Book Equipment Rates.x	89,160		
613E (5,000 gal)	8,700	Copper Flats - Blue B Used Cat 613E scrape	8,726		
621E (8,000 gal)	10,000	Copper Flats - Blue B Used Cat 621E scrape	10,006		
777D H2O Truck	37,200	Copper Flats - Blue B Used Cat 777 haul tru	37,226		
785C H2O Truck	40,900	x1.1 neighbor Blue Book not availab	40,948		
Dump Truck (10-12 yd3)	3,800	Copper Flats - Blue B 10 CY Dump Truck	3,752		
Tractor/Trailer (20 ton)	5,300	Copper Flats - Blue B 25 ton tractor & trailer	5,259.00		
Tractor/Trailer (50 ton)	10,900	Copper Flats - Blue B 45 ton tractor & trailer	10,863.00		
Tractor/Trailer (80 ton)	27,100	Copper Flats - Blue B 75 ton trailer & Cat 77	27,097.00		

NOTES:					
(1) Power Equipment Source:					
(2) Power Equipment Type:	equivalent, LeTourneau	equivalent, LeTourneau	equivalent, LeTourneau	equivalent, LeTourneau	equivalent, LeTourneau
(3) Drilling Equipment Source:					
(4) Other Equipment Source:					

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<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

## PREVENTATIVE MAINTENANCE COST [Cost Per Hour] <sup>(1)</sup>

EQUIPMENT TYPE	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Copper Flat FA				
<b>Bulldozers</b>					
D6T	34.60	Copper Flats - Blue Book Equipment Rates.xlsx			
D6R w/ Winch	34.60	Copper Flats - Blue Book Equipment Rates.xlsx			
D7E	2.69	D7; SRK.TH.05.04.18	473.00		
D8T	3.49	D8; SRK.TH.05.04.18	614.00		
D9T	3.61	D9; SRK.TH.05.04.18	636.00		
D10T2	3.79	D10; SRK.TH.05.04.18	667.00		
D11T	160.74	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Wheeled Dozers</b>					
824K	49.58	Copper Flats - Blue Book Equipment Rates.xlsx			
834K	59.69	Copper Flats - Blue Book Equipment Rates.xlsx			
844K	77.91	Copper Flats - Blue Book Equipment Rates.xlsx			
854K	90.20	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Motor Graders</b>					
12M2	20.32	Cat 120M2 Motor Grader; SRK Consulting Equipment Quote Copper Flat Mine.xlsx			
14M	37.21	14M; SRK.TH.05.04.18	425.00		
16M3	50.42	160M3; SRK.TH.05.04.18	458.00		
24M	55.46	x1.1 neighbor			
<b>Track Excavators</b>					
312F	2.14	x0.9 neighbor			
320F	2.38	x0.9 neighbor			
325F	2.64	329; SRK.TH.05.04.18	464.00		
330F	3.01	336; SRK.TH.05.04.18	530.00		
349F	3.36	349; SRK.TH.05.04.18	591.00		
374F	80.63	Copper Flats - Blue Book Equipment Rates.xlsx			
390F	91.31	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Scrapers</b>					
631K	3.22	631; SRK.TH.05.04.18	567.00		
637K	116.00	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Wheeled Loaders</b>					
926M	9.33	Copper Flats - Blue Book Equipment Rates.xlsx			
930M	16.35	Copper Flats - Blue Book Equipment Rates.xlsx			
950M	2.30	950; SRK.TH.05.04.18	405.00		
966M	2.42	average			
972M	2.53	972; SRK.TH.05.04.18	446.00		
980M	2.57	980; SRK.TH.05.04.18	452.00		
988K	57.81	Copper Flats - Blue Book Equipment Rates.xlsx			
990K	85.58	Copper Flats - Blue Book Equipment Rates.xlsx			
992K	102.33	Copper Flats - Blue Book Equipment Rates.xlsx			
994K	122.36	proportioned			
L2350	203.53	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Shovels/Excavators</b>					
PC2000	183.38	Copper Flats - Blue Book Equipment Rates.xlsx			
PC3000	218.80	average			
PC4000	254.21	Copper Flats - Blue Book Equipment Rates.xlsx			
PC5500	279.63	x1.1 neighbor			
PC8000	307.59	x1.1 neighbor			
EX2500	277.02	Copper Flats - Blue Book Equipment Rates.xlsx			

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<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

<b>Hydraulic Hammers</b>					
H120Es (fits 325)	N/A	N/A	N/A	N/A	N/A
H160Es (fits 349)	N/A	N/A	N/A	N/A	N/A
H180Es (fits 374/390)	N/A	N/A	N/A	N/A	N/A

<b>Demolition Shears</b>					
S3050 (fits 320/325/330)	N/A	N/A	N/A	N/A	N/A
S3070 (fits 330/349)	N/A	N/A	N/A	N/A	N/A
S3090 (fits 374/390)	N/A	N/A	N/A	N/A	N/A

<b>Demolition Grapples</b>					
G315B (fits 320/325)	N/A	N/A	N/A	N/A	N/A
G320B (fits 325/330)	N/A	N/A	N/A	N/A	N/A
G330 (fits 349/374)	N/A	N/A	N/A	N/A	N/A

<b>Other Equipment</b>					
420F2	11.81	Copper Flats - Blue Book Equipment Rates.xlsx			
430F2	12.20	Copper Flats - Blue Book Equipment Rates.xlsx			
CS54B	19.33	Copper Flats - Blue Book Equipment Rates.xlsx			
CS64B	20.65	Copper Flats - Blue Book Equipment Rates.xlsx			
CP54B	24.87	Copper Flats - Blue Book Equipment Rates.xlsx			
CP68B	29.78	Copper Flats - Blue Book Equipment Rates.xlsx			
Light Truck - 1.5 Ton	8.67	Copper Flats - Blue Book Equipment Rates.xlsx			
Supervisor's Truck	3.62	Copper Flats - Blue Book Equipment Rates.xlsx			
Flatbed Truck	3.85	Copper Flats - Blue Book Equipment Rates.xlsx			
Air Compressor + tools	3.38	Copper Flats - Blue Book Equipment Rates.xlsx			
Welding Equipment	1.92	Copper Flats - Blue Book Equipment Rates.xlsx			
Heavy Duty Drill Rig	278.95	Copper Flats - Blue Book Equipment Rates.xlsx			
Pump (plugging) Drill Rig	278.95	assume same as heavy duty drill rig			
Concrete Pump					
Gas Engine Vibrator	1.46	Copper Flats - Blue Book Equipment Rates.xlsx			
Generator 5KW	3.58	Copper Flats - Blue Book Equipment Rates.xlsx			
HDEP Welder (pipe or liner)					
5 Ton Crane	23.22	x0.9 neighbor			
20 Ton Crane	25.80	Copper Flats - Blue Book Equipment Rates.xlsx			
50 Ton Crane	45.47	Copper Flats - Blue Book Equipment Rates.xlsx			
120 Ton Crane	80.14	Copper Flats - Blue Book Equipment Rates.xlsx			

<b>Trucks</b>					
725C	28.22	Copper Flats - Blue Book Equipment Rates.xlsx			
730C	2.76	SRK CONSULT QUO	485.00		
735C	2.86	average			
740C	2.97	SRK CONSULT QUO	522.00		
770G	39.70	Copper Flats - Blue Book Equipment Rates.xlsx			
773G	47.92	Copper Flats - Blue Book Equipment Rates.xlsx			
777G	95.60	Copper Flats - Blue Book Equipment Rates.xlsx			
785D	105.16	x1.1 neighbor			
789D	115.68	x1.1 neighbor			
793F	127.24	x1.1 neighbor			
797F	204.78	Copper Flats - Blue Book Equipment Rates.xlsx			
613E (5,000 gal)	45.31	Copper Flats - Blue Book Equipment Rates.xlsx			
621E (8,000 gal)	50.66	Copper Flats - Blue Book Equipment Rates.xlsx			
777D H2O Truck	95.60	same as 777G			
785C H2O Truck	105.16	same as 785D			
Dump Truck (10-12 yd3)	15.58	Copper Flats - Blue Book Equipment Rates.xlsx			
Tractor/Trailer (20 ton)	N/A	N/A	N/A	N/A	N/A
Tractor/Trailer (50 ton)	N/A	N/A	N/A	N/A	N/A
Tractor/Trailer (80 ton)	N/A	N/A	N/A	N/A	N/A

<b>NOTES:</b>					
	(1) PM Source:				

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	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

## G.E.T CONSUMPTION [Cost Per Hour] <sup>(1)</sup> (Wear Items)

EQUIPMENT TYPE	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Copper Flat FA				
<b>Bulldozers</b>					
D6T	2.61	Copper Flats - Blue Book Equipment Rates.xlsx			
D6R w/ Winch	2.61	Copper Flats - Blue Book Equipment Rates.xlsx			
D7E	3.84	Copper Flats - Blue Book Equipment Rates.xlsx			
D8T	4.86	Copper Flats - Blue Book Equipment Rates.xlsx			
D9T	6.59	Copper Flats - Blue Book Equipment Rates.xlsx			
D10T2	8.22	Copper Flats - Blue Book Equipment Rates.xlsx			
D11T	16.66	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Wheeled Dozers</b>					
824K	1.32	Copper Flats - Blue Book Equipment Rates.xlsx			
834K	1.70	Copper Flats - Blue Book Equipment Rates.xlsx			
844K	2.42	Copper Flats - Blue Book Equipment Rates.xlsx			
854K	2.40	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Motor Graders</b>					
12M2	0.62	Copper Flats - Blue Book Equipment Rates.xlsx			
14M	1.38	Copper Flats - Blue Book Equipment Rates.xlsx			
16M3	2.00	Copper Flats - Blue Book Equipment Rates.xlsx			
24M	2.20	x1.1 neighbor			
<b>Track Excavators</b>					
312F	1.33	Copper Flats - Blue Book Equipment Rates.xlsx			
320F	1.94	Copper Flats - Blue Book Equipment Rates.xlsx			
325F	1.48	Copper Flats - Blue Book Equipment Rates.xlsx			
330F	2.67	Copper Flats - Blue Book Equipment Rates.xlsx			
349F	2.85	Copper Flats - Blue Book Equipment Rates.xlsx			
374F	3.97	Copper Flats - Blue Book Equipment Rates.xlsx			
390F	5.11	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Scrapers</b>					
631K	1.86	Copper Flats - Blue Book Equipment Rates.xlsx			
637K	2.11	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Wheeled Loaders</b>					
926M	0.19	Copper Flats - Blue Book Equipment Rates.xlsx			
930M	0.60	Copper Flats - Blue Book Equipment Rates.xlsx			
950M	0.87	Copper Flats - Blue Book Equipment Rates.xlsx			
966M	0.87	Copper Flats - Blue Book Equipment Rates.xlsx			
972M	1.08	Copper Flats - Blue Book Equipment Rates.xlsx			
980M	1.41	Copper Flats - Blue Book Equipment Rates.xlsx			
988K	2.26	Copper Flats - Blue Book Equipment Rates.xlsx			
990K	3.71	Copper Flats - Blue Book Equipment Rates.xlsx			
992K	4.54	Copper Flats - Blue Book Equipment Rates.xlsx			
994K	4.99	x1.1 neighbor			
L2350	9.30	Copper Flats - Blue Book Equipment Rates.xlsx			
<b>Shovels/Excavators</b>					
PC2000	13.87	Copper Flats - Blue Book Equipment Rates.xlsx			
PC3000	16.89	average			
PC4000	19.91	Copper Flats - Blue Book Equipment Rates.xlsx			
PC5500	21.90	x1.1 neighbor			
PC8000	24.09	x1.1 neighbor			
EX2500	25.00	Copper Flats - Blue Book Equipment Rates.xlsx			

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<b>Wet Rate?</b>	No				

<b>Hydraulic Hammers</b>					
H120Es (fits 325)	11.57	Copper Flats - Blue Book Equipment Rates.xlsx			
H160Es (fits 349)	23.24	Copper Flats - Blue Book Equipment Rates.xlsx			
H180Es (fits 374/390)	24.96	Copper Flats - Blue Book Equipment Rates.xlsx			

<b>Demolition Shears</b>					
S3050 (fits 320/325/330)	20.50	Copper Flats - Blue Book Equipment Rates.xlsx			
S3070 (fits 330/349)	25.23	Copper Flats - Blue Book Equipment Rates.xlsx			
S3090 (fits 374/390)	31.61	Copper Flats - Blue Book Equipment Rates.xlsx			

<b>Demolition Grapples</b>					
G315B (fits 320/325)					
G320B (fits 325/330)					
G330 (fits 349/374)					

<b>Other Equipment</b>					
420F2	0.54	Copper Flats - Blue Book Equipment Rates.xlsx			
430F2	0.60	Copper Flats - Blue Book Equipment Rates.xlsx			
CS54B					
CS64B					
CP54B					
CP68B					
Light Truck - 1.5 Ton					
Supervisor's Truck					
Flatbed Truck					
Air Compressor + tools	N/A	N/A	N/A	N/A	N/A
Welding Equipment	N/A	N/A	N/A	N/A	N/A
Heavy Duty Drill Rig	9.60	Copper Flats - Blue Book Equipment Rates.xlsx			
Pump (plugging) Drill Rig	9.60	assume same as heavy duty drill rig			
Concrete Pump	N/A	N/A	N/A	N/A	N/A
Gas Engine Vibrator	N/A	N/A	N/A	N/A	N/A
Generator 5KW	N/A	N/A	N/A	N/A	N/A
HDEP Welder (pipe or liner)	N/A	N/A	N/A	N/A	N/A
5 Ton Crane					
20 Ton Crane					
50 Ton Crane					
120 Ton Crane					

<b>Trucks</b>					
725C					
730C					
735C					
740C					
770G					
773G					
777G					
785D					
789D					
793F					
797F					
613E (5,000 gal)	0.94	Copper Flats - Blue Book Equipment Rates.xlsx			
621E (8,000 gal)	0.57	Copper Flats - Blue Book Equipment Rates.xlsx			
777D H2O Truck					
785C H2O Truck					
Dump Truck (10-12 yd3)					
Tractor/Trailer (20 ton)	N/A	N/A	N/A	N/A	N/A
Tractor/Trailer (50 ton)	N/A	N/A	N/A	N/A	N/A
Tractor/Trailer (80 ton)	N/A	N/A	N/A	N/A	N/A

<b>Notes:</b>	(1) G.E.T. Source:				
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	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

### TIRE COST TABLE [Cost Per Tire<sup>(1,2,3)</sup>]

EQUIPMENT TYPE	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
	Copper Flat FA				
<b>Bulldozers</b>					
D6T	N/A	N/A	N/A	N/A	N/A
D6R w/ Winch	N/A	N/A	N/A	N/A	N/A
D7E	N/A	N/A	N/A	N/A	N/A
D8T	N/A	N/A	N/A	N/A	N/A
D9T	N/A	N/A	N/A	N/A	N/A
D10T2	N/A	N/A	N/A	N/A	N/A
D11T	N/A	N/A	N/A	N/A	N/A
<b>Wheeled Dozers</b>					
824K	33,740.00	3,500.00	Cat 824H	9.64	
834K	43,505.00	3,500.00		12.43	
844K	62,020.00	3,500.00	Cat 844H	17.72	
854K	76,685.00	3,500.00	Cat 854G	21.91	
<b>Motor Graders</b>					
12M2	11,025.00	3,500.00		3.15	
14M	24,500.00	3,500.00		7.00	
16M3	35,455.00	3,500.00	Cat 16M	10.13	
24M	39,000.50	3,500.00	x1.1 neighbor	11.14	
<b>Track Excavators</b>					
312F	N/A	N/A	N/A	N/A	N/A
320F	N/A	N/A	N/A	N/A	N/A
325F	N/A	N/A	N/A	N/A	N/A
330F	N/A	N/A	N/A	N/A	N/A
349F	N/A	N/A	N/A	N/A	N/A
374F	N/A	N/A	N/A	N/A	N/A
390F	N/A	N/A	N/A	N/A	N/A
<b>Scrapers</b>					
631K	32,680.00	4,000.00	Cat 631G	8.17	
637K	30,280.00	4,000.00	Cat 637G	7.57	
<b>Wheeled Loaders</b>					
926M	4,770.00	4,500.00		1.06	
930M	13,815.00	4,500.00	930K	3.07	
950M	23,085.00	4,500.00	950K	5.13	
966M	24,075.00	4,500.00	966K	5.35	
972M	29,880.00	4,500.00	972K	6.64	
980M	45,720.00	4,500.00	980K	10.16	
988K	73,350.00	4,500.00	988H	16.30	
990K	120,195.00	4,500.00	990H	26.71	
992K	147,105.00	4,500.00	992K	32.69	
994K	161,815.50	4,500.00	x1.1 neighbor	35.96	
L2350	301,680.00	4,500.00		67.04	
<b>Shovels/Excavators</b>					
PC2000	N/A	N/A	N/A	N/A	N/A
PC3000	N/A	N/A	N/A	N/A	N/A
PC4000	N/A	N/A	N/A	N/A	N/A
PC5500	N/A	N/A	N/A	N/A	N/A
PC8000	N/A	N/A	N/A	N/A	N/A
EX2500	N/A	N/A	N/A	N/A	N/A
<b>Hydraulic Hammers</b>					
H120Es (fits 325)	N/A	N/A	N/A	N/A	N/A
H160Es (fits 349)	N/A	N/A	N/A	N/A	N/A
H180Es (fits 374/390)	N/A	N/A	N/A	N/A	N/A
<b>Demolition Shears</b>					
S3050 (fits 320/325/330)	N/A	N/A	N/A	N/A	N/A
S3070 (fits 330/349)	N/A	N/A	N/A	N/A	N/A
S3090 (fits 374/390)	N/A	N/A	N/A	N/A	N/A
<b>Demolition Grapples</b>					
G315B (fits 320/325)	N/A	N/A	N/A	N/A	N/A
G320B (fits 325/330)	N/A	N/A	N/A	N/A	N/A
G330 (fits 349/374)	N/A	N/A	N/A	N/A	N/A

# Equipment Costs

<b>File Name:</b>	Copper_Flat_CDF_191000_060_FNL_2018
<b>Date:</b>	July 1, 2018
<b>Cost Basis:</b>	User Data
<b>Author/Source:</b>	0

	Basis 1	Basis 2	Basis 3	Basis 4	Basis 5
<b>Monthly Rental Basis</b> (operating hrs/ period)	176				
<b>Wet Rate?</b>	No				

Other Equipment					
420F2	4,770.00	3,000.00	Cat 420F Tractor-Load	1.59	
430F2	4,830.00	3,000.00	Cat 430E Tractor-Load	1.61	
CS54B	N/A	N/A	N/A	N/A	N/A
CS64B	N/A	N/A	N/A	N/A	N/A
CP54B	N/A	N/A	N/A	N/A	N/A
CP68B	N/A	N/A	N/A	N/A	N/A
Light Truck - 1.5 Ton	4,140.00	3,000.00	Single Axle Lube Truck	1.38	
Supervisor's Truck	1,350.00	3,000.00	3/4 Ton 4x4	0.45	
Flatbed Truck	1,020.00	3,000.00	On-Highway Flatbed Truck	0.34	
Air Compressor + tools	N/A	N/A	N/A	N/A	N/A
Welding Equipment	N/A	N/A	N/A	N/A	N/A
Heavy Duty Drill Rig					
Pump (plugging) Drill Rig					
Concrete Pump	N/A	N/A	N/A	N/A	N/A
Gas Engine Vibrator	N/A	N/A	N/A	N/A	N/A
Generator 5KW	N/A	N/A	N/A	N/A	N/A
HDEP Welder (pipe or liner)	N/A	N/A	N/A	N/A	N/A
5 Ton Crane	9,261.00	3,000.00	x0.9 neighbor	3.09	
20 Ton Crane	10,290.00	3,000.00	Tadan GR-150XL-1 (1	3.43	
50 Ton Crane	16,530.00	3,000.00	Grove TMS700E	5.51	
120 Ton Crane	42,750.00	3,000.00	Grove GMK5120B	14.25	

Trucks					
725C	13,720.00	2,000.00	Cat 725, model not sp	6.86	
730C	14,980.00	2,000.00		7.49	
735C	15,940.00	2,000.00	Cat 735B	7.97	
740C	17,240.00	2,000.00		8.62	
770G	64,440.00	6,000.00		10.74	
773G	69,300.00	5,000.00		13.86	
777G	157,600.00	5,000.00		31.52	
785D	138,688.00	4,000.00	x1.1 neighbor	34.67	
789D	152,556.80	4,000.00	x1.1 neighbor	38.14	
793F	167,812.48	4,000.00	x1.1 neighbor	41.95	
797F	322,800.00	4,000.00		80.70	
613E (5,000 gal)	18,840.00	6,000.00	Used Cat 613E scrape	3.14	
621E (8,000 gal)	38,960.00	8,000.00	Used Cat 621E scrape	4.87	
777D H2O Truck	157,600.00	5,000.00	Used Cat 777 haul truck	31.52	
785C H2O Truck	138,688.00	4,000.00	x1.1 neighbor	34.67	
Dump Truck (10-12 yd3)	12,900.00	6,000.00	10 CY Dump Truck	2.15	
Tractor/Trailer (20 ton)					
Tractor/Trailer (50 ton)					
Tractor/Trailer (80 ton)					

Notes:					
(1) Unit Cost Basis:					
(2) Cost Basis:					
(3) Tire Cost Source:					
(4) Tire Wear Source (defined in model):					





# Labor Rates

<b>File Name:</b>	<i>Copper_Flat_CDF_191000_060_FNL_2018</i>
<b>Date:</b>	<i>July 1, 2018</i>
<b>Cost Basis:</b>	<i>User Data</i>
<b>Author/Source:</b>	<i>0</i>

## HOURLY LABOR RATE TABLE

EQUIPMENT TYPE <sup>(1)</sup> OR JOB DESCRIPTION	Basis 1	Basis 2	Basis 3	Basis 4
	<i>Copper Flat FA</i>			
<b>Other Equipment</b>				
420F2	14.03	From SRCE User 7		
430F2	14.03	From SRCE User 7		
CS54B	14.03	Assume same as backhoe operators		
CS64B	14.03	Assume same as backhoe operators		
CP54B	14.03	Assume same as backhoe operators		
CP68B	14.03	Assume same as backhoe operators		
Light Truck - 1.5 Ton	0.00	none - for supervisors only		
Supervisor's Truck	0.00	none - for supervisors only		
Flatbed Truck				
Air Compressor + tools				
Welding Equipment				
Heavy Duty Drill Rig				
Pump (plugging) Drill Rig				
Concrete Pump				
Gas Engine Vibrator				
Generator 5KW				
HDEP Welder (pipe or liner)				
5 Ton Crane	27.12	Assume same as wheeled loader operators		
20 Ton Crane	27.12	Assume same as wheeled loader operators		
50 Ton Crane	27.12	Assume same as wheeled loader operators		
120 Ton Crane	27.12	Assume same as wheeled loader operators		
<b>Fringe Benefits</b>				
Equip Op Fringe Benefits (\$/hr)				
<b>Zone and Area Adjustments - Miles and Rates (\$/hr) <sup>(3)</sup></b>				
Equipment Zone 1	none	0.00		
Equipment Zone 2				
Equipment Zone 3				
Equipment Zone 4				
Equipment Zone 5				
Equipment Zone 6				
Equipment Zone 7				
<b>NOTES:</b>				
(1) Equipment Type:	Catepillar model or equivalent	Catepillar model or equivalent	Catepillar model or equivalent	Catepillar model or equivalent
(2) Equipment Operator Source:				
(3) Zone Basis:				
<b>TRUCK DRIVERS - Labor Groups and Base Pay Rate (\$/hr) <sup>(4)</sup></b>				
725C	18.97	Assume same as water truck operator		
730C	18.97	Assume same as water truck operator		
735C	18.97	Assume same as water truck operator		
740C	18.97	Assume same as water truck operator		
770G	18.97	Assume same as water truck operator		
773G	18.97	Assume same as water truck operator		
777G	18.97	Assume same as water truck operator		
785D	18.97	Assume same as water truck operator		
789D	18.97	Assume same as water truck operator		
793F	18.97	Assume same as water truck operator		
797F	18.97	Assume same as water truck operator		
613E (5,000 gal)	18.97	Assume same as water truck operator		
621E (8,000 gal)	18.97	Assume same as water truck operator		
777D H2O Truck	18.97	From SRCE User 7		
785C H2O Truck	18.97	From SRCE User 7		
Dump Truck (10-12 yd3)	11.90	From SRCE User 7		
Tractor/Trailer (20 ton)				
Tractor/Trailer (50 ton)				
Tractor/Trailer (80 ton)				
<b>Fringe Benefits</b>				
Truck Driver Fringe Benefits (cost/hr)				
<b>Zone and Area Adjustments <sup>(5)</sup></b>				
Truck Zone 1	none	0.00		
Truck Zone 2				
Truck Zone 3				
Truck Zone 4				
Truck Zone 5				
Truck Zone 6				
Truck Zone 7				



## Reclamation Material Costs

<b>File Name:</b>	<i>Copper Flat_CDF_191000_060_</i>
<b>Date:</b>	<i>July 1, 2018</i>
<b>Cost Basis:</b>	<i>User Data</i>
<b>Author/Source:</b>	<i>0</i>

### RECLAMATION MATERIAL COST TABLE

	Basis 1	Basis 2	Basis 3
<b>MATERIAL TYPE</b>	<i>Copper Flat FA</i>		

#### Revegetation Materials

##### Seed Mixes

Seed Mix	Units			
None				
Mix 1	Cost/Acre			
Mix 2	Cost/Acre			
Mix 3	Cost/Acre			
Mix 4	Cost/Acre			
User Mix 1	Cost/Acre			
User Mix 2	Cost/Acre			
User Mix 3	Cost/Acre			
User Mix 4	Cost/Acre			
User Mix 5 (see Seed Mix sheet)	Cost/Acre			
Notes:				

##### Mulch

Item	Units			
None				
Straw Mulch	Cost/lb			
Hydro Mulch	Cost/lb			
	Cost/lb			
	Cost/lb			
Notes:				

##### Amendments

Item	Units			
None				
Organic Matter	Cost/lb			
Treated Sludge	Cost/lb			
Chemical	Cost/lb			
	Cost/lb			
	Cost/lb			
Notes:				

##### Well Abandonment Materials

Description	Units			
Cement	50lb bag	7.57		
Grout (Low Grade Bentonite)	50lb bag	8.65		
Inert Material/Cuttings	cy			
Notes:				

##### Monitoring Costs

Description	Units	Cost/unit	Cost/unit	Cost/unit
Monitor Well Pump	ea.	0.00		
Sampling Supplies	ea.	0.00		
GW Analysis Profile 1	ea.	1,254.00		
GW Analysis Profile 2	ea.	739.00		
GW Analysis Profile 3	ea.	554.00		
SW Analysis Profile 4	ea.	1,573.00		
SW Analysis Profile 5	ea.	1,058.00		
SW Analysis Profile 6	ea.	873.00		
	ea.			
	ea.			
	ea.			
	ea.			
	ea.			
	ea.			
	ea.			
	ea.			
	ea.			
Notes:				



## Misc. Unit Costs

<b>File Name:</b>	<i>Copper Flat_CDF_191000_060_FNL_20180801_ft.xlsm</i>
<b>Date:</b>	<i>July 1, 2018</i>
<b>Cost Basis:</b>	<i>User Data</i>
<b>Author/Source:</b>	<i>0</i>

<b>MISCELLANEOUS COST TABLE</b>							
JOB DESCRIPTION		Basis 1		Basis 2		Basis 3	
		<i>Copper Flat FA</i>					
<b>REVEGETATION</b>							
Item	Units	Labor	Equip	Labor	Equip	Labor	Equip
Seeding - Broadcast Manual <sup>(1)</sup>	\$/acres	37.94	53.20				
Seeding - Broadcast Mechanical <sup>(1)</sup>	\$/acres	18.97	25.80				
Seeding - Drill <sup>(1)</sup>	\$/acres						
Seeding - Hydroseeding <sup>(1)</sup>	\$/acres						
Item	Units	Materials		Materials		Materials	
Shrub Planting - bare root 6-10 in (150- 250mm) <sup>(2)</sup>	ea.						
Tree Planting - bare root 11-16 in (270- 400mm) <sup>(3)</sup>	ea.						
Cactus Planting <sup>(4)</sup>	ea.						
<b>NOTES:</b>							
	(1) Seeding Source:	SRCE User 03					
	(2) Shrub Source:						
	(3) Tree Source:						
	(4) Cactus Source:						
<b>BUILDING and WALL DEMOLITION</b>							
Item	Units		Premium		Premium		Premium
<b>Building Demolition</b>							
Lg. steel	C.F.						
Lg. concrete	C.F.						
Lg. masonry	C.F.						
Lg. mixed	C.F.						
Sm. steel	C.F.						
Sm. concrete	C.F.						
Sm. masonry	C.F.						
Sm. wood	C.F.						
<b>Wall Demolition</b>							
Block 4 in thick	S.F.		20%		20%		20%
Block 6 in thick	S.F.		20%		20%		20%
Block 8 in thick	S.F.		20%		20%		20%
Block 12 in thick	S.F.		20%		20%		20%
Conc 6 in thick	S.F.		10%		10%		10%
Conc 8 in thick	S.F.		10%		10%		10%
Conc 10 in thick	S.F.		10%		10%		10%
Conc 12 in thick	S.F.		10%		10%		10%
<b>WASTE DISPOSAL</b>							
Item	Units	Materials		Materials		Materials	
<b>Rubbish and Waste Handling</b>							
Dumpster delivery (average for all sizes)	ea.	82.50					
Haul (average for all sizes)	ea.	259.00					
Rent per month (average for all sizes)	ea.	88.00					
Disposal fee per ton (tonne) (average for all sizes)	ton	97.00					
<b>NOTES:</b>							
	Dumpster Cost Source:	SRCE User 03					
	Disposal Fee Source:	SRCE User 03					
<b>Hazardous Material Handling - Solids</b>							
Pickup fees 55 gal. drums	ea.	265.00					
Bulk material (average)	ton	432.50					
Transport - truck load (80 drums, 25 cy (m3), 18 tons)	mile	5.90					
Dump site disposal fee	ton	305.00					
<b>NOTES:</b>							
	Solid Handling Cost Source:						
	Solid Disposal Fee Source:						
<b>Hazardous Material Handling - Liquids</b>							
Vacuum Truck Pickup (2200 gal or 9,700 litres)	hr.	155.00					
Vacuum Truck Pickup (5000 gal or 2,000 litres)	hr.	225.00					
Dump site disposal fee	ton	305.00					

## Misc. Unit Costs

<b>File Name:</b>	<i>Copper Flat_CDF_191000_060_FNL_20180801_ft.xlsm</i>
<b>Date:</b>	<i>July 1, 2018</i>
<b>Cost Basis:</b>	<i>User Data</i>
<b>Author/Source:</b>	<i>0</i>

### MISCELLANEOUS COST TABLE

JOB DESCRIPTION		Basis 1	Basis 2	Basis 3
		<i>Copper Flat FA</i>		
<b>NOTES:</b>				
Liquid Handling Cost Source		SRCE User 03		
Liquid Disposal Fee Source:		SRCE User 03		
<b>Hydrocarbon Contaminated Soils (HCS)</b>				
Insitu Biotreatment	C.Y	24.25		
HCS disposal fee	C.Y	295.00		
<b>NOTES:</b>				
Insitu Treatment Cost Source		SRCE User 03		
HCS Disposal Fee Source:		SRCE User 03		

## Misc. Unit Costs

<b>File Name:</b>	Copper Flat_CDF_191000_060_FNL_20180801_ft.xlsm
<b>Date:</b>	July 1, 2018
<b>Cost Basis:</b>	User Data
<b>Author/Source:</b>	0

<b>MISCELLANEOUS COST TABLE</b>							
JOB DESCRIPTION	Basis 1		Basis 2		Basis 3		
	Copper Flat FA						
<b>UNDERGROUND OPENING CLOSURE</b>							
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium
<b>Reinforced Concrete Bulkheads and Shaft Covers</b>							
Grade walls - 15 in thick, 8 ft high	C.Y						
Grade walls - 15 in thick, 12 ft high	C.Y						
Elevated conc, 1-way beam & slab - 15ft span	C.Y						
Elevated conc, 1-way beam & slab - 25ft span	C.Y						
Item	Units	Materials		Materials		Materials	
<b>Small Adit Plugging</b>							
Bat Gate <sup>(5)</sup>	ea.						
Culvert Gate <sup>(5)</sup>	C.Y						
Adit Foam Plug <sup>(6)</sup>	C.Y						
Production Opening Foam Plug <sup>(6)</sup>	C.Y						
<b>NOTES:</b>							
		(5) Bat Gate Source:					
		(6) Foam Plug Source:					
<b>MISC. LINEAR PROJECTS</b>							
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium
<b>Fencing Installation</b>							
Barbed 3-strand	ft	0.39					
Barbed 4-strand	ft	0.52					
Barbed 5-strand	ft	0.65					
Chain link 8 ft -10 ft Install	ft	32.00					
Wood stockade fence 6 ft high - Install	ft	13.15					
	ft						
	ft						
<b>Fencing Removal</b>							
Barbed 3-strand Removal	ft						
Barbed 4-strand Removal	ft						
Barbed 5-strand Removal	ft						
Chain link 8 ft -10 ft Removal	ft						
Wood, all types 4 ft -6 ft high Removal	ft						
	ft						
	ft						
<b>Culvert Removal</b>							
12 in (300 mm ) Diameter	ft						
18 in (450 mm) Diameter	ft						
24 in (600 mm) Diameter	ft						
36 in (1m) Diameter	ft						
<b>Pipeline Removal</b>							
Plastic Pipe 3/4 in (mm) - 4 in (100 mm) diameter	ft						
6 in (150 mm) - 8 in (200 mm)	ft						
10 in (250 mm) - 18 in (450 mm)	ft						
20 in (500 mm) - 36 in (1 m)	ft						
<b>Pipe and Drainpipe Installation</b>							
Water 4in (100mm ) 40ft (12m) length, welded HDPE	ft	2.50					
Water 6in (150mm) 40ft (12m) length, welded HDPE	ft	5.65					
Water 12in (300mm) 40ft (12m) length, welded HDPE	ft	13.00					
Drain 4in (100mm) perforated PVC	ft	1.64					
Drain 6in (150mm) perforated PVC	ft	3.49					
Drain 4in (100mm) corrugated, perf or plain	ft	0.74					
Drain 6in (150mm) corrugated., perf or plain	ft	1.88					
<b>Drain Rock Preparation</b>							
Item	Units		Total		Total		Total
Crushing	C.Y						
Screening	C.Y						
<b>Misc.</b>							
Item	Units		Premium		Premium		Premium



## Misc. Unit Costs

<b>File Name:</b>	Copper Flat_CDF_191000_060_FNL_20180801_ft.xlsm
<b>Date:</b>	July 1, 2018
<b>Cost Basis:</b>	User Data
<b>Author/Source:</b>	0

MISCELLANEOUS COST TABLE							
JOB DESCRIPTION		Basis 1		Basis 2		Basis 3	
		Copper Flat FA					
Backhoe work	C.Y						
<b>Powerline and Transformer Removal</b>			<b>Total</b>		<b>Total</b>		<b>Total</b>
Single Pole Powerlines <sup>(7)</sup>	mile		19,372				
Double Pole Powerlines <sup>(8)</sup>	mile		19,372				
Substation <sup>(9)</sup>	unit		29,250				
<b>NOTES:</b>							
	(7) Single Pole Source:						
	(8) Double Pole Source:						
	(9) Transformer Source:						

## Misc. Unit Costs

<b>File Name:</b>	Copper Flat_CDF_191000_060_FNL_20180801_ft.xlsm
<b>Date:</b>	July 1, 2018
<b>Cost Basis:</b>	User Data
<b>Author/Source:</b>	0

MISCELLANEOUS COST TABLE							
JOB DESCRIPTION		Basis 1		Basis 2		Basis 3	
		Copper Flat FA					
<b>EROSION, EVAPORATION and SEDIMENTATION CONTROL</b>							
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium
<b>Rip-Rap &amp; Rock Lining</b>							
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	S.Y.	0.00					
Rip-Rap 18 in (450 mm) min thick, no grout	S.Y.	0.00					
Gabions, 6 in (150 mm) deep	S.Y.	0.00					
Gabions, 9 in (250 mm) deep	S.Y.	0.00					
Gabions, 12 in (300 mm) deep	S.Y.	0.00					
Gabions, 18 in (450 mm) deep	S.Y.	0.00					
Gabions, 36 in (1m) deep	S.Y.	0.00					
<b>Liner Installation</b>							
Item	Units	Materials	Premium	Materials	Premium	Materials	Premium
Finish grading large area	S.F.						
Compaction-riding, vibrating roller - 12in (300mm) lifts	S.F.						
Geotextile	S.F.						
Geonet	S.F.						
Geogrid	S.F.						
60 mil HDPE	S.F.	0.58					
<b>Transport Costs</b>							
Item	Units		Total		Total		Total
Ship/Barge Transport Cost	Cost/ton						
Rail Transport Cost	Cost/ton						
Air Transport Cost	Cost/ton						
Escort Vehicle Deadhead Rate	Cost/mi						
<b>Construction Management Support</b>							
Item	Units		Materials		Materials		Materials
Office Trailer, Furnished, no hook-ups	month		198.00				
Toilet Portable, chemical	month		198.00				
<b>PRODUCTION OR DEWATERING WELL PUMP REMOVAL</b>							
Item	Units	Labor	Equip	Labor	Equip	Labor	Equip
<b>Pump Type</b>							
Submersible <sup>(10)</sup>	ft to pump	2.57	5.58				
Line Shaft <sup>(10)</sup>	ft to pump	5.99	13.02				
<b>NOTES:</b>							
		(10) Pump Removal Source: NV costs					