

500 TRANSPORTE

RESUMEN 500 - TRANSPORTE

ITEM	DESCRIPCIÓN DE LA PARTIDA	UND	METRADO TOTAL
501.A	CARGUIO Y ACARREO DE MATERIAL PROPIO P/DIQUE D≤1km	m3-km	190,730.09
501.B	CARGUIO Y ACARREO DE MATERIAL DE PRESTAMO P/DIQUE D≤1km	m3-km	-
501.D	CARGUIO Y TRANSPORTE DE MATERIAL AFIRMADO D≤1KM	m3-km	24,100.39
502.A	ACARREO DE MATERIAL PROPIO P/DIQUE D>1km	m3-km	231,266.68
502.B	ACARREO DE MATERIAL DE PRESTAMO P/DIQUE D>1Km	m3-km	-
502.D	TRANSPORTE DE MATERIAL AFIRMADO D>1KM	m3-km	238,212.28
503.B	CARGUIO Y TRANSPORTE DE MATERIAL EXCEDENTE CON EQUIPO D≤ 1km	m3-km	282,203.16
504.B	TRANSPORTE DE MATERIAL EXCEDENTE CON EQUIPO D> 1km	m3-km	2,720,358.03
505.A	TRANSPORTE DE MATERIAL INTERNO PARA ACOPIO ≤1km (INCLUYE CARGUÍO)	m3-km	-
505.B	CARGUIO Y TRANSPORTE DE ROCA SELECCIONADA D≤1km	m3-km	307,007.79
506.A	TRANSPORTE DE ROCA SELECCIONADA D >1km	m3-km	2,432,824.84

501.A CARGUIO Y ACARREO DE MATERIAL PROPIO P/DIQUE D≤1km
502.A ACARREO DE MATERIAL PROPIO P/DIQUE D>1km

	PROGRESIVA			VOLUMEN MATERIAL DISPONIBLE m3	VOLUMEN MATERIAL RELLENO m3	VOLUMEN ACARREADO m3	DISTANCIA DE TRANSPORTE					501.A	502.A
	INICIO	FIN	C.G.				TOTAL (Km)	LIBRE (Km)	VALORIZ. (Km)	D ≤ 1 Km (Km)	D > 1 Km (Km)	D ≤ 1 Km m3-km	D > 1 Km m3-km
11+000.00	12+000.00	11+500.00		34,262.64	12,410.50	12,410.50	0.50	0.12	0.38	0.38	-	4,715.99	-
12+000.00	13+000.00	12+500.00		39,022.64	15,293.71	15,293.71	0.50	0.12	0.38	0.38	-	5,811.61	-
13+000.00	14+000.00	13+500.00		26,816.10	27,242.08	26,816.10	0.50	0.12	0.38	0.38	-	10,190.12	-
12+000.00	13+000.00	12+500.00				425.98	1.00	0.12	0.88	0.88	-	374.86	-
14+000.00	15+000.00	14+500.00		15,687.96	6,033.98	6,033.98	0.50	0.12	0.38	0.38	-	2,292.91	-
15+000.00	16+000.00	15+500.00		14,837.59	9,056.80	9,056.80	0.50	0.12	0.38	0.38	-	3,441.58	-
16+000.00	17+000.00	16+500.00		7,271.90	11,538.51	7,271.90	0.50	0.12	0.38	0.38	-	2,763.32	-
14+000.00	15+000.00	14+500.00				4,266.61	2.00	0.12	1.00	0.88	1.00	3,754.62	4,266.61
17+000.00	18+000.00	17+500.00		22,298.41	13,463.01	13,463.01	0.50	0.12	0.38	0.38	-	5,115.94	-
18+000.00	19+000.00	18+500.00		28,580.11	17,558.58	17,558.58	0.50	0.12	0.38	0.38	-	6,672.26	-
19+000.00	20+000.00	19+500.00		9,223.24	17,709.82	9,223.24	0.50	0.12	0.38	0.38	-	3,504.83	-
26+000.00	27+000.00	26+500.00				8,486.58	7.00	0.12	6.00	0.88	6.00	7,468.19	50,919.48
20+000.00	21+000.00	20+500.00		23,461.70	47,200.13	23,461.70	0.50	0.12	0.38	0.38	-	8,915.45	-
27+000.00	28+000.00	27+500.00				23,738.43	7.00	0.12	6.00	0.88	6.00	20,889.81	142,430.56
21+000.00	22+000.00	21+500.00		8,544.96	11,222.28	8,544.96	0.50	0.12	0.38	0.38	-	3,247.08	-
26+000.00	27+000.00	26+500.00				2,677.32	5.00	0.12	4.00	0.88	4.00	2,356.04	10,709.28
22+000.00	23+000.00	22+500.00		3,876.18	4,609.42	3,876.18	0.50	0.12	0.38	0.38	-	1,472.95	-
26+000.00	27+000.00	26+500.00				733.24	4.00	0.12	3.00	0.88	3.00	645.25	2,199.72
23+000.00	24+000.00	23+500.00		3,537.47	2,529.57	2,529.57	0.50	0.12	0.38	0.38	-	961.24	-
24+000.00	25+000.00	24+500.00		196.50	2,093.82	196.50	0.50	0.12	0.38	0.38	-	74.67	-
26+000.00	27+000.00	26+500.00				1,897.32	2.00	0.12	1.00	0.88	1.00	1,669.64	1,897.32
25+000.00	26+000.00	25+500.00		3,880.05	3,947.10	3,880.05	0.50	0.12	0.38	0.38	-	1,474.42	-
26+000.00	27+000.00	26+500.00				67.05	1.00	0.12	0.88	0.88	-	59.00	-
26+000.00	27+000.00	26+500.00		32,229.76	13,820.47	13,820.47	0.50	0.12	0.38	0.38	-	5,251.78	-
27+000.00	28+000.00	27+500.00		88,663.49	15,135.33	15,135.33	0.50	0.12	0.38	0.38	-	5,751.43	-
28+000.00	29+000.00	28+500.00		68,476.47	15,188.07	15,188.07	0.50	0.12	0.38	0.38	-	5,771.47	-
29+000.00	30+000.00	29+500.00		20,796.96	15,138.06	15,138.06	0.50	0.12	0.38	0.38	-	5,752.46	-
30+000.00	31+000.00	30+500.00		10,862.62	11,623.77	10,862.62	1.00	0.12	0.88	0.88	-	9,559.11	-
33+000.00	34+000.00	33+500.00				761.15	3.00	0.12	2.00	0.88	2.00	669.81	1,522.31
31+000.00	32+000.00	31+500.00		11,531.47	28,852.87	11,531.47	0.50	0.12	0.38	0.38	-	4,381.96	-
33+000.00	34+000.00	33+500.00				17,321.40	2.00	0.12	1.00	0.88	1.00	15,242.83	17,321.40
32+000.00	33+000.00	32+500.00		15,270.60	19,639.93	15,270.60	0.50	0.12	0.38	0.38	-	5,802.83	-
33+000.00	34+000.00	33+500.00				4,369.33	1.00	0.12	0.88	0.88	-	3,845.01	-
33+000.00	34+000.00	33+500.00		54,486.12	27,254.06	27,254.06	0.50	0.12	0.38	0.38	-	10,356.54	-
34+000.00	35+000.00	34+500.00		11,735.24	1,972.75	1,972.75	1.00	0.12	0.88	0.88	-	1,736.02	-
35+000.00	36+000.00	35+500.00		35,369.68	12,555.19	12,555.19	1.00	0.12	0.88	0.88	-	11,048.57	-
36+000.00	37+000.00	36+500.00		34,401.45	20,232.86	20,232.86	0.50	0.12	0.38	0.38	-	7,688.49	-
				625,321.31	383,322.66	383,322.67							
TOTAL TRANSPORTE MATERIAL GRANULAR - SECTOR 4												190,730.09	231,266.68

501.D CARGUIO Y TRANSPORTE DE MATERIAL AFIRMADO D≤1KM
502.D TRANSPORTE DE MATERIAL AFIRMADO D>1KM

	PROGRESIVA			VOLUMEN MATERIAL m3	CANTERA DE AFIRMADO			DISTANCIA DE TRANSPORTE					501.D	502.D
	INICIO	FIN	C.G.		NOMBRE	PROG. Km	ACCESO Km	TOTAL (Km)	LIBRE (Km)	VALORIZ. (Km)	D <= 1 Km (Km)	D > 1 Km (Km)	D <= 1 Km m3-km	D > 1 Km m3-km
	11+000.00	12+000.00	11+500.00	1,485.04	ESTRELLA DE BELEN	24+500	4.750	17.75	0.12	16.75	0.88	16.75	1,306.84	24,874.42
	12+000.00	13+000.00	12+500.00	1,520.00	ESTRELLA DE BELEN	24+500	4.750	16.75	0.12	15.75	0.88	15.75	1,337.60	23,940.00
	13+000.00	14+000.00	13+500.00	1,471.14	ESTRELLA DE BELEN	24+500	4.750	15.75	0.12	14.75	0.88	14.75	1,294.60	21,699.32
	14+000.00	15+000.00	14+500.00	761.60	ESTRELLA DE BELEN	24+500	4.750	14.75	0.12	13.75	0.88	13.75	670.21	10,472.00
	15+000.00	16+000.00	15+500.00	761.60	ESTRELLA DE BELEN	24+500	4.750	13.75	0.12	12.75	0.88	12.75	670.21	9,710.40
	16+000.00	17+000.00	16+500.00	766.40	ESTRELLA DE BELEN	24+500	4.750	12.75	0.12	11.75	0.88	11.75	674.43	9,005.20
	17+000.00	18+000.00	17+500.00	851.20	ESTRELLA DE BELEN	24+500	4.750	11.75	0.12	10.75	0.88	10.75	749.06	9,150.40
	18+000.00	19+000.00	18+500.00	1,018.40	ESTRELLA DE BELEN	24+500	4.750	10.75	0.12	9.75	0.88	9.75	896.19	9,929.40
	19+000.00	20+000.00	19+500.00	765.36	ESTRELLA DE BELEN	24+500	4.750	9.75	0.12	8.75	0.88	8.75	673.52	6,696.90
	20+000.00	21+000.00	20+500.00	1,479.20	ESTRELLA DE BELEN	24+500	4.750	8.75	0.12	7.75	0.88	7.75	1,301.70	11,463.80
	21+000.00	22+000.00	21+500.00	1,412.78	ESTRELLA DE BELEN	24+500	4.750	7.75	0.12	6.75	0.88	6.75	1,243.25	9,536.27
	22+000.00	23+000.00	22+500.00	1,414.94	ESTRELLA DE BELEN	24+500	4.750	6.75	0.12	5.75	0.88	5.75	1,245.15	8,135.91
	23+000.00	24+000.00	23+500.00	1,715.23	ESTRELLA DE BELEN	24+500	4.750	5.75	0.12	4.75	0.88	4.75	1,509.40	8,147.34
	24+000.00	25+000.00	24+500.00	770.00	ESTRELLA DE BELEN	24+500	4.750	4.75	0.12	3.75	0.88	3.75	677.60	2,887.50
	25+000.00	26+000.00	25+500.00	1,716.13	CASABLANCA	24+950	2.370	2.92	0.12	1.92	0.88	1.92	1,510.19	3,294.97
	26+000.00	27+000.00	26+500.00	1,790.98	CASABLANCA	24+950	2.370	3.92	0.12	2.92	0.88	2.92	1,576.06	5,229.66
	27+000.00	28+000.00	27+500.00	1,048.80	CASABLANCA	24+950	2.370	4.92	0.12	3.92	0.88	3.92	922.94	4,111.30
	28+000.00	29+000.00	28+500.00	1,366.60	CASABLANCA	24+950	2.370	5.92	0.12	4.92	0.88	4.92	1,202.61	6,723.67
	29+000.00	30+000.00	29+500.00	573.82	CASABLANCA	24+950	2.370	6.92	0.12	5.92	0.88	5.92	504.96	3,397.01
	30+000.00	31+000.00	30+500.00	303.99	CASABLANCA	24+950	2.370	7.92	0.12	6.92	0.88	6.92	267.51	2,103.61
	31+000.00	32+000.00	31+500.00	528.20	CASABLANCA	24+950	2.370	8.92	0.12	7.92	0.88	7.92	464.82	4,183.34
	32+000.00	33+000.00	32+500.00	576.08	CASABLANCA	24+950	2.370	9.92	0.12	8.92	0.88	8.92	506.95	5,138.63
	33+000.00	34+000.00	33+500.00	989.52	CASABLANCA	24+950	2.370	10.92	0.12	9.92	0.88	9.92	870.78	9,816.04
	34+000.00	35+000.00	34+500.00	161.88	CASABLANCA	24+950	2.370	11.92	0.12	10.92	0.88	10.92	142.45	1,767.73
	35+000.00	36+000.00	35+500.00	824.20	CASABLANCA	24+950	2.370	12.92	0.12	11.92	0.88	11.92	725.30	9,824.46
	36+000.00	37+000.00	36+500.00	1,313.70	CASABLANCA	24+950	2.370	13.92	0.12	12.92	0.88	12.92	1,156.06	16,973.00
				27,386.79										
TOTAL TRANSPORTE MATERIAL AFIRMADO - SECTOR 4													24,100.39	238,212.28

N°	Progres.	Acceso
	Km	Km
ESTRELLA DE BELEN	24+500.00	4.750
CASABLANCA	24+950.00	2.370
MEZARINE-HUARAZ	32+700.00	8.250

503.B CARGUO Y TRANSPORTE DE MATERIAL EXCEDENTE CON EQUIPO D≤ 1km

504.B TRANSPORTE DE MATERIAL EXCEDENTE CON EQUIPO D> 1km

	PROGRESIVA			410.A CONFORMACION DE DME/DMO m3	DME			DISTANCIA DE TRANSPORTE					503.B	504.B
	INICIO	FIN	C.G.		NOMBRE	PROG. Km	ACCESO Km	TOTAL (Km)	LIBRE (Km)	VALORIZ. (Km)	D <= 1 Km (Km)	D > 1 Km (Km)	D <= 1 Km m3-km	D > 1 Km m3-km
	11+000.00	12+000.00	11+500.00	30,934.29	DME N° C-09B	22+500	0.290	11.29	0.12	10.29	0.88	10.29	27,222.17	318,313.84
	12+000.00	13+000.00	12+500.00	27,065.48	DME N° C-09B	22+500	0.290	10.29	0.12	9.29	0.88	9.29	23,817.62	251,438.28
	13+000.00	14+000.00	13+500.00	5,171.37	DME N° C-09B	22+500	0.290	9.29	0.12	8.29	0.88	8.29	4,550.81	42,870.66
	14+000.00	15+000.00	14+500.00	12,310.17	DME N° C-09B	22+500	0.290	8.29	0.12	7.29	0.88	7.29	10,832.95	89,741.12
	15+000.00	16+000.00	15+500.00	2,421.50	DME N° C-09B	22+500	0.290	7.29	0.12	6.29	0.88	6.29	2,130.92	15,231.24
	16+000.00	17+000.00	16+500.00	3,684.88	DME N° C-09B	22+500	0.290	6.29	0.12	5.29	0.88	5.29	3,242.69	19,493.02
	17+000.00	18+000.00	17+500.00	9,400.55	DME N° C-09B	22+500	0.290	5.29	0.12	4.29	0.88	4.29	8,272.49	40,328.36
	18+000.00	19+000.00	18+500.00	4,346.68	DME N° C-09B	22+500	0.290	4.29	0.12	3.29	0.88	3.29	3,825.08	14,300.58
	19+000.00	20+000.00	19+500.00	3,192.44	DME ESTRELLA DE BELEN	24+900	4.850	10.25	0.12	9.25	0.88	9.25	2,809.35	29,530.07
	20+000.00	21+000.00	20+500.00	2,766.37	DME ESTRELLA DE BELEN	24+900	4.850	9.25	0.12	8.25	0.88	8.25	2,434.41	22,822.55
	20+000.00	21+000.00	20+500.00	1,400.87	DME CASABLANCA-1A	24+900	3.700							
	21+000.00	22+000.00	21+500.00	264.28	DME N° C-09B	22+500	0.290	1.29	0.12	0.29	0.88	0.29	232.57	76.64
	22+000.00	23+000.00	22+500.00	830.68	DME N° C-09B	22+500	0.290	0.29	0.12	0.17	0.17	-	141.22	-
	23+000.00	24+000.00	23+500.00	1,023.26	DME ESTRELLA DE BELEN	24+900	4.850	6.25	0.12	5.25	0.88	5.25	900.47	5,372.13
	24+000.00	25+000.00	24+500.00	5.04	DME N° C-09B	22+500	0.290	2.29	0.12	1.29	0.88	1.29	4.44	6.50
	25+000.00	26+000.00	25+500.00	204.21	DME N° C-09B	22+500	0.290	3.29	0.12	2.29	0.88	2.29	179.70	467.64
	26+000.00	27+000.00	26+500.00	18,128.34	DME N° C-09B	22+500	0.290	4.29	0.12	3.29	0.88	3.29	15,952.94	59,642.24
	27+000.00	28+000.00	27+500.00	56,942.31	DME ESTRELLA DE BELEN	24+900	4.850	7.45	0.12	6.45	0.88	6.45	50,109.23	367,277.87
	28+000.00	29+000.00	28+500.00	60,879.54	DME CASABLANCA-1A	24+900	3.700	7.30	0.12	6.30	0.88	6.30	53,574.00	383,541.12
	29+000.00	22+000.00	25+500.00	8,881.55	DME CASABLANCA-1A	24+900	3.700	4.30	0.12	3.30	0.88	3.30	7,815.77	29,309.13
	30+000.00	31+000.00	30+500.00	-	DME ESTRELLA DE BELEN	24+900	4.850	-	-	-	-	-	-	-
	31+000.00	32+000.00	31+500.00	1,140.48	DME CASABLANCA-1A	24+900	3.700	10.30	0.12	9.30	0.88	9.30	1,003.62	10,606.46
	32+000.00	33+000.00	32+500.00	1,467.55	DME CASABLANCA-1A	24+900	3.700	11.30	0.12	10.30	0.88	10.30	1,291.44	15,115.77
	33+000.00	34+000.00	33+500.00	10,161.94	DME ESTRELLA DE BELEN	24+900	4.850	13.45	0.12	12.45	0.88	12.45	8,942.51	126,516.16
	34+000.00	35+000.00	34+500.00	12,036.56	DME ESTRELLA DE BELEN	24+900	4.850	14.45	0.12	13.45	0.88	13.45	10,592.17	161,891.73
	35+000.00	36+000.00	35+500.00	26,620.17	DME ESTRELLA DE BELEN	24+900	4.850	15.45	0.12	14.45	0.88	14.45	23,425.75	384,661.46
	36+000.00	37+000.00	36+500.00	21,475.95	DME ESTRELLA DE BELEN	24+900	4.850	16.45	0.12	15.45	0.88	15.45	18,898.84	331,803.46
				322,756.46										

TOTAL ELIMINACION DE MATERIAL EXCEDENTE - SECTOR 4	282,203.16	2,720,358.03
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N°	Progres. Km	Acceso Km
DME N° C-09B	22+500.00	0.290
DME CASABLANCA-1A	24+900.00	3.700
DME ESTRELLA DE BELEN	24+900.00	4.850

505.B CARGUIO Y TRANSPORTE DE ROCA SELECCIONADA D≤1km
506.A TRANSPORTE DE ROCA SELECCIONADA D >1km

	PROGRESIVA			VOLUMEN ENROCADO PARA UNA m3	CANTERA DE ROCA			DISTANCIA DE TRANSPORTE					505.B	506.A
	INICIO	FIN	C.G.		NOMBRE	PROG. Km	ACCESO Km	TOTAL (Km)	LIBRE (Km)	VALORIZ. (Km)	D <= 1 Km (Km)	D > 1 Km (Km)	D <= 1 Km m3-km	D > 1 Km m3-km
	11+000.00	12+000.00	11+500.00	11,224.51	MARGA Y PECOS	26+500	2.290	17.29	0.12	16.29	0.88	16.29	9,877.57	182,847.27
	12+000.00	13+000.00	12+500.00	9,659.28	MARGA Y PECOS	26+500	2.290	16.29	0.12	15.29	0.88	15.29	8,500.17	147,690.39
	13+000.00	14+000.00	13+500.00	8,158.84	MARGA Y PECOS	26+500	2.290	15.29	0.12	14.29	0.88	14.29	7,179.78	116,589.82
	14+000.00	15+000.00	14+500.00	4,145.41	MARGA Y PECOS	26+500	2.290	14.29	0.12	13.29	0.88	13.29	3,647.96	55,092.50
	15+000.00	16+000.00	15+500.00	3,453.88	MARGA Y PECOS	26+500	2.290	13.29	0.12	12.29	0.88	12.29	3,039.41	42,448.19
	16+000.00	17+000.00	16+500.00	1,562.45	MARGA Y PECOS	26+500	2.290	12.29	0.12	11.29	0.88	11.29	1,374.96	17,640.06
	17+000.00	18+000.00	17+500.00	7,361.91	SAN ALFONSO	26+700	0.535	9.74	0.12	8.74	0.88	8.74	6,478.48	64,306.28
	18+000.00	19+000.00	18+500.00	7,881.07	SAN ALFONSO	26+700	0.535	8.74	0.12	7.74	0.88	7.74	6,935.34	60,960.08
	19+000.00	20+000.00	19+500.00	2,702.88	SAN ALFONSO	26+700	0.535	7.74	0.12	6.74	0.88	6.74	2,378.53	18,203.90
	20+000.00	21+000.00	20+500.00	10,065.33	SAN ALFONSO	26+700	0.535	6.74	0.12	5.74	0.88	5.74	8,857.49	57,724.67
	21+000.00	22+000.00	21+500.00	3,241.45	SAN ALFONSO	26+700	0.535	5.74	0.12	4.74	0.88	4.74	2,852.48	15,348.27
	22+000.00	23+000.00	22+500.00	870.81	SAN ALFONSO	26+700	0.535	4.74	0.12	3.74	0.88	3.74	766.31	3,252.48
	23+000.00	24+000.00	23+500.00	1,120.86	SAN ALFONSO	26+700	0.535	3.74	0.12	2.74	0.88	2.74	986.36	3,065.55
	24+000.00	25+000.00	24+500.00	-	SAN ALFONSO	26+700	0.535	2.74	0.12	1.74	0.88	1.74	-	-
	25+000.00	26+000.00	25+500.00	932.50	SAN ALFONSO	26+700	0.535	1.74	0.12	0.74	0.88	0.74	820.60	685.39
	26+000.00	27+000.00	26+500.00	4,159.45	SAN ALFONSO	26+700	0.535	0.74	0.12	0.62	0.62	-	2,558.06	-
	27+000.00	28+000.00	27+500.00	9,918.37	LA VIBORA	26+800	0.225	0.93	0.12	0.81	0.81	-	7,984.29	-
	28+000.00	29+000.00	28+500.00	10,710.95	SAN ALFONSO 5	27+200	1.275	2.58	0.12	1.58	0.88	1.58	9,425.64	16,889.75
	29+000.00	30+000.00	29+500.00	3,013.27	SAN ALFONSO 5	27+200	1.275	3.58	0.12	2.58	0.88	2.58	2,651.68	7,759.17
	30+000.00	31+000.00	30+500.00	3,932.45	SAN ALFONSO 5	27+200	1.275	4.58	0.12	3.58	0.88	3.58	3,460.56	14,058.51
	31+000.00	32+000.00	31+500.00	5,849.40	P GUERRERO Y2	37+220	0.645	6.37	0.12	5.37	0.88	5.37	5,147.47	31,382.03
	32+000.00	33+000.00	32+500.00	6,478.68	P GUERRERO Y2	37+220	0.645	5.37	0.12	4.37	0.88	4.37	5,701.24	28,279.44
	33+000.00	34+000.00	33+500.00	10,119.28	P GUERRERO Y2	37+220	0.645	4.37	0.12	3.37	0.88	3.37	8,904.97	34,051.38
	34+000.00	35+000.00	34+500.00	1,828.62	P GUERRERO Y2	37+220	0.645	3.37	0.12	2.37	0.88	2.37	1,609.19	4,324.69
	35+000.00	36+000.00	35+500.00	5,261.81	P GUERRERO Y2	37+220	0.645	2.37	0.12	1.37	0.88	1.37	4,630.39	7,182.37
	36+000.00	37+000.00	36+500.00	8,848.16	P GUERRERO Y2	37+220	0.645	1.37	0.12	0.37	0.88	0.37	7,786.38	3,229.58
				142,501.62										

	PROGRESIVA			VOLUMEN ENROCADO PARA TALUD m3	CANTERA DE ROCA			DISTANCIA DE TRANSPORTE					505.B	506.A
	INICIO	FIN	C.G.		NOMBRE	PROG. Km	ACCESO Km	TOTAL (Km)	LIBRE (Km)	VALORIZ. (Km)	D <= 1 Km (Km)	D > 1 Km (Km)	D <= 1 Km m3-km	D > 1 Km m3-km
	11+000.00	12+000.00	11+500.00	18,439.76	MARGA Y PECOS	26+500	2.290	17.29	0.12	16.29	0.88	16.29	16,226.99	300,383.69
	12+000.00	13+000.00	12+500.00	20,128.15	MARGA Y PECOS	26+500	2.290	16.29	0.12	15.29	0.88	15.29	17,712.77	307,759.41
	13+000.00	14+000.00	13+500.00	12,742.43	MARGA Y PECOS	26+500	2.290	15.29	0.12	14.29	0.88	14.29	11,213.34	182,089.32
	14+000.00	15+000.00	14+500.00	6,701.51	MARGA Y PECOS	26+500	2.290	14.29	0.12	13.29	0.88	13.29	5,897.33	89,063.07
	15+000.00	16+000.00	15+500.00	6,013.07	MARGA Y PECOS	26+500	2.290	13.29	0.12	12.29	0.88	12.29	5,291.50	73,900.63
	16+000.00	17+000.00	16+500.00	2,907.25	MARGA Y PECOS	26+500	2.290	12.29	0.12	11.29	0.88	11.29	2,558.38	32,822.85
	17+000.00	18+000.00	17+500.00	10,234.23	SAN ALFONSO	26+700	0.535	9.74	0.12	8.74	0.88	8.74	9,006.12	89,396.00
	18+000.00	19+000.00	18+500.00	11,384.63	SAN ALFONSO	26+700	0.535	8.74	0.12	7.74	0.88	7.74	10,018.47	88,060.11
	19+000.00	20+000.00	19+500.00	3,854.18	SAN ALFONSO	26+700	0.535	7.74	0.12	6.74	0.88	6.74	3,391.68	25,957.90
	20+000.00	21+000.00	20+500.00	13,551.12	SAN ALFONSO	26+700	0.535	6.74	0.12	5.74	0.88	5.74	11,924.99	77,715.67
	21+000.00	22+000.00	21+500.00	3,684.68	SAN ALFONSO	26+700	0.535	5.74	0.12	4.74	0.88	4.74	3,242.52	17,446.96
	22+000.00	23+000.00	22+500.00	1,325.02	SAN ALFONSO	26+700	0.535	4.74	0.12	3.74	0.88	3.74	1,166.02	4,948.95
	23+000.00	24+000.00	23+500.00	1,052.99	SAN ALFONSO	26+700	0.535	3.74	0.12	2.74	0.88	2.74	926.63	2,879.93
	24+000.00	25+000.00	24+500.00	-	SAN ALFONSO	26+700	0.535	2.74	0.12	1.74	0.88	1.74	-	-
	25+000.00	26+000.00	25+500.00	1,926.59	SAN ALFONSO	26+700	0.535	1.74	0.12	0.74	0.88	0.74	1,695.40	1,416.04
	26+000.00	27+000.00	26+500.00	7,119.70	SAN ALFONSO	26+700	0.535	0.74	0.12	0.62	0.62	-	4,378.62	-
	27+000.00	28+000.00	27+500.00	13,174.64	LA VIBORA	26+800	0.225	0.93	0.12	0.81	0.81	-	10,605.59	-
	28+000.00	29+000.00	28+500.00	15,870.85	SAN ALFONSO 5	27+200	1.275	2.58	0.12	1.58	0.88	1.58	13,966.35	24,996.59
	29+000.00	30+000.00	29+500.00	5,314.06	SAN ALFONSO 5	27+200	1.275	3.58	0.12	2.58	0.88	2.58	4,676.37	13,683.70
	30+000.00	31+000.00	30+500.00	4,844.90	SAN ALFONSO 5	27+200	1.275	4.58	0.12	3.58	0.88	3.58	4,263.51	17,320.52
	31+000.00	32+000.00	31+500.00	8,379.67	P GUERRERO Y2	37+220	0.645	6.37	0.12	5.37	0.88	5.37	7,374.11	44,996.93
	32+000.00	33+000.00	32+500.00	8,349.69	P GUERRERO Y2	37+220	0.645	5.37	0.12	4.37	0.88	4.37	7,347.73	36,446.40
	33+000.00	34+000.00	33+500.00	14,735.29	P GUERRERO Y2	37+220	0.645	4.37	0.12	3.37	0.88	3.37	12,967.06	49,584.25
	34+000.00	35+000.00	34+500.00	2,740.06	P GUERRERO Y2	37+220	0.645	3.37	0.12	2.37	0.88	2.37	2,411.25	6,480.24
	35+000.00	36+000.00	35+500.00	6,223.62	P GUERRERO Y2	37+220	0.645	2.37	0.12	1.37	0.88	1.37	5,476.79	8,495.24
	36+000.00	37+000.00	36+500.00	11,037.46	P GUERRERO Y2	37+220	0.645	1.37	0.12	0.37	0.88	0.37	9,712.96	4,028.67
				211,735.55										

TOTAL TRANSPORTE DE ROCA - SECTOR 4	307,007.79	2,432,824.84
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N°	Progres.	Acceso
	Km	Km
MARGA Y PECOS	26+500.00	2.290
SAN ALFONSO	26+700.00	0.535
LA VIBORA	26+800.00	0.225
SAN ALFONSO 5	27+200.00	1.275
P GUERRERO Y2	37+220.00	0.645