Appendix J

	**	JOB Catawis	oissa heeve		
GEO-TECHNICAL SERVICES Consulting Engineers & Geologists		SHEET NO.	OF	OF	
		CALCULATED BY	DATE		
	Consulting Engineers & Geologists	CHECKED BY	DATE		
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	and the state of the				
	SUMMARY	e e e e e e e e e e e e e e e e e e e			
	CONSTRUCTION (COSTS	12-131		
	Operation & M	DINT. COSTS	132-133		
	LIMESTONE CO	STS	534		
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COST SUMMARY

AUDENIED TUNUEL
WLT #1
WLT #2
WLT #0
WLT #3

\$ 2,600,000 \$ 775,000 \$ 535,000 1,300,000 1,100,000

* includes cost of drum installation near cc-z

Annual CosTS

REPLACEMENT & MAINT.
CAPITAL AMORITIZATION

534,114 759,724

1,293,838

ESTIMATED DUNUAL BENEFITS

Stream oriented bandlits (ref EPA 1933 Report) Assume Construction 1985 & benefits increase @ 12%/91. Benefits = 315125 (1+.12)¹² = 1,227,700

WATER SUPRY VALUE
ASSUME 20 mgd @ 104/1000 gal 730,000

1,957,700

COST/BENEFIT RATIO = 1.5

JOB CATAWISSA	COST ESTIMATE
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AUDENRIED TUNNEL	,	
AUDENKIEU (UNICE		
CONCRETE		
AIRLOCK TOWER		
REO'D FLOW = 150 CFS		
ALLOWABLE VELOCITY &		
: REQ'O. AREA ≈ 38		
CALL 6'x 6' NY 1' WAL	28	
HEIGHT = 52'		
	7	
$Cove. = \lfloor (2 \times 6) \rfloor$	+ (2×8) 52×1/27 × 375 =	(*20,200)
FLUME FROM AIRLOCK TOWER	TO FLOW DIVIDE	
CAPACITY ≈ 150 CFS		
	ONC. CHANNEL W/1'	WALLS & SLAB
LENGTH = 65'		
Couc. = (10+1	6+6×65) × 1/27 × # 250) = [\$13,200]
FLUME FROM FLOW DIVIDE	TO DOWNFLOW UNITS	
CAPACITY & 35 CFS C		:
ASSUME 5'W X3'H Ca	WC. CHANNEL W/ 1' WA	us ? Slab
LENGTH = 185'		
Paul = (7+3+	3)(185) ×/27 × #250=	# 22,300)
CLARC.	2/1/03/1/1/	LAL, SU
The Tank Paristral House	- Danso #/	aan and daard daa
FLUME FROM DOWNFLOW UNITS		· · · · · · · · · · · · · · · · · · ·
	EL W/ 1' WALLS & SLAE	3
LENGTH = 205		
	17 - 1 - 17 - 20 - 1	
CONC. = (7+3+3,	(205) × /27 × # 250 = (# 24,700
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JOB CATAWISSA COS.	T ESTIMATE
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AUDENRIED TUNNE	L (CONT.)		.,
FLUME FROM	FLOW DIVIDE	TO AUXILIARY DA	RUMS
		IANNEL W/ /WA	
	TH = 110'		
	CONC. = (7+	3+3×110) ×1/27 × #	250 : (# 13,200)
	•		
EMERGENCY BY	VP1SS		
		00 CFS @ 4FPS	(Max)
		·	W/ 1' WALLS & SLAB
	4 - 80'		Y L M ついとこっす 、 こ
•		A American Company of the Company of	
	Paul = (10	1110 / RD) x 1/27 x	# nen - (# 13 3m)
	LUNC	THITTH OUT TO	\$250 = (\$13,300)
MINE PORTAL IS	PETAINIAIC WA) / (
	IALL & 12'W x		
		vg) × 56'L. × 18"1	T Enry
# V 11 x 3 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4		VG) - UG L. A. U.	EACN .
	Main = [(12x2)	0) 1/02/11/56/72/6	5 x 1/27 x # 375 = # 39,700
	conc Linna	5/T(2014209) 1100	, x/2(x" 515 -1 02,100
OUTLET FROM	Property		
	11TY = 150 CF		
. Assur	12 e've' B	o Audeor III	"WALLS, DECK & SLAB
/ ENICT	16 6 x 6 12 H = 50'	28 CULVERY MY	WALLS, LECK & SUMO
		IVG) × 20'L × 1'T	
	VALLO - UNIM	VG/ XZU L X/ /	and the second of the second o
index of the second	1-12- [120]	12 (2) 52 + 11 5	×20) × 1/29×#250 = (#20,00
	CONC = 1(12×0)+1	(2x101) x 30 T (4 x 3 x	(20) X /2 (X = 250 = 20,40
and the second second second		en e	
and the second s		en e	
	en e	and the second s	

JOB CATAWISSA	COST ESTIMATE
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OUTLET FROM POOL No. 2	, .	
B'x B'x 1' BOX CULVER	et w/ 1' walls deck é s	CLAB
LENGTH = 30'		• ' '
WINGWALLS = 5'H (AVG)	x20'L. x 1'T	
Couc. = ((2×8)4(2×10)).	×30 + (4×5×20) ×/29 × #250	= (#13,700)
,		
AUX. DRUM INSTALLATIONS (2 E	4)	
SLAB = 15W x 25'L x 1		
BACKWALL = 25'LX 3'H	*/7	
DIVIDING/END WALLS =	15 L. x 8'H x 1'T. (3 EA)	
CONC. = \((15x25) + (25×3)+(3×15×8)]x2×1/27×	#250 = (#15,000)
MAIN DRUM INSTALLATIONS (3		
SLAB = 15'W x 50'L x1'		
BACKWALL = 50'L. x 3'H x	1'7	
DIVIDING END WALLS = 15	L. x & H. x / T. (5 EA)	
	-1 / - 1 - 1	(#)
. CONC. = [(15x50)+(50	0x3)+(5x/5x8)]x3x/27x425	50 = (#41,700)
an all Page a pour marks		
3PLASH PADS @ DRUM INISTALLA		
@ DRUMS # 1 50'(x 15		
@ DRUMS #2 50'L x 10		
@ DRUMS #3 50'(x 10'		
@ Aux. Drums 15'L x 15		
Cour - 150/1510	+10) + 15(15)] ×/27×#250=	(# 10 Zoo)
LUNG [00 (13+10)	10) + 10(10) 1 1/2(10 200 -	(10,500)
		•
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GEO-TEC	HNICAL	SERVICES
Consulting	Engineers	& Geologists

JOB CATAWISSA COST L	ESTIMATE
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SCALE
DOWNFLOW UNITS
6 UNITS @ 70'L x 15'W => STONE AREA = 6×70 x 12 & 5000 SF
3LAB = 15W x 70'L x1'T (GEA)
WALLS = 6'H x 70'L x 1'T (18 EA)
ENDWAUS = 6'H x 15'L x 1'T (12 EA)
CONC = (6x15x70)+(18x6x70)+(12x6x15) x/27 x 250 = (#138,300)
RETAINING WALLS @ AUX. DRUMS & PARKING AREA
30'L x 10'H x 1'T
25'L x 10'H x 1'T
25' L x 10' H x 1' T
CONC. = 10(30+25+25) × 1/27 × # 250 = (#7400)
FLUME TO DRUMS # 2 & DRUMS #3
130'c x 5'w x 3'H x 1'T [(130x7) + (2x130x3)] x 1/27 @ #250 = #15,700
$[(30\times1)7(2\times130\times3)]$
ENDWALLS @ INLET TO 48" & ROP (2 REGIO.)
2×7×6×1×1/27
4x7x3x1x/27
CONC. = 6 CY @ #250: [#1500]
SUB-TOTAL CONC. = # 418,600)

JOB CATAWISSA COST	ESTIMATE
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EARTHWORK		
SETTLING LAGOON		
EXCAVATION = 17,800	CY @ # #	2.50 = (\$ 44,500)
	i i i i i i i i i i i i i i i i i i i	
ROLLED EMBANKMENT =	250 C.Y. @ # 2	200 = (8500)
MINE PORTAL AREA		
ROLLED EMBANKMENT	= 28 100 04	0 # 2m: (#56 200)
		2.00
	grander de algorithme. La dinasa de algorithme	
EXCAVATION = 200 (C.Y. @ #2.50	500
POW W/ I EMBANKMENT		
POOL No. 1 EMBANKMENT		
ROLLED EMBANKMEN	r = 3500 cy 0	#3.00 = (#10,500)
EXCAVATION = 200 CY	1 @ \$2.50 = \$	500
POOL NO. 2 EMBANKMENT		
ROLLED EMBANKMENT	= 1200 CY C +	3 m = [\$3600]
		/ . /
EXCAVATION = 150 C	1 6 \$2.50: 1	400)
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JOB CATAWISSA	COST ESTIMATE
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<u> </u>	1 0 10		
	LIMESTONE STORAGE AREA		•
			(# 22
	EXCAVATION = 900	CY @ \$2.50 =	P 2300
		man in the same of	
	DOWNFLOW UNITS		
			· · · · · · · · · · · · · · · · · · ·
	EXCAVATION 70 × 220	0 x 6 x 1/27 = 3400	Cy @ \$ 3.00 = \$10,0
	COMPACTED BACKFILL = 3	400-(6×70×15×6×1/2)	n) = 2000 Cy @ \$6
		· A · · · · · · · · · · · · · · · · · ·	(= \$13,000)
	and the second of the second o	erikan di kacamatan di Kabupatèn Baratan di Kabupatèn Baratan di Kabupatèn Baratan di Kabupatèn Baratan di Kab Kabupatèn Baratan Bara	
	ROADS & PARKING AREAS		
	EXCAVATION = 500 CY	e#2.50 = F,	1250)
	BACKFILL AROUND STRUCTU	re3	
	COMPACTED BACKFILL		
	(12×28×2×1/27)	PORTAL	
	(2×14×56×2×1/29)		
:	(2x55x3x2x1/27)		
	(3 × 80 × 3 × 2 × /21)		
	(2 × 50 × 9 × 2 × 1/27,		
	(2×30×9×2×1/27		
	$(4 \times 5 \times 20 \times 2 \times 1/27)$		
	· •		
	(4 x 5 x 20 x 2 x /27)	4 v v	
	(2×65×6×2×1/27)		
	$(2\times500\times3\times3/2\times1/2$		
	(2×80×4×32×1/2	2) BYPASS	

GEO-TEC	HNICAL	S	ERVICES
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JOB CATAWISSA COST	ESTIMATE
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	RIPRAP LINING
-	RIPRAI CIVITIS
	$(160 \times 95 \times 1/9)$
	$(140 \times 55 \times 1/9)$
	(125 x 45 x 1/9)
	= 3200 SY @ #30 = (# 96,000)
-	PIPE TO DRUMS # 2 & DRUMS # 3
	ASSUME 48" RCP
	CALL TOTAL LENGTH = 120' @ #65 = (#7800)
	Coan a Paguina Suprace
	ROAD 9 PARKING SURFACE
	10' x 100' x'/9
	10'x 560 x/9
<u>.</u>	10' x 800 x 1/9
	160 × 40 × 19
	10x120 x19
<u>.</u>	15 x 260 x 1/9
	10 x 75 x 19
	80×60×19
	15 x 120 x 19
	30×180 ×19
	20×40×1/9
· · · · · · · · · · · · · · · · · · ·	
,	15 × 10,000 ×19
	= 21,100 34 @ #10 = (*211,000)

JOB CATAWISSA	COST ESTIMATE
SHEET NO. 8	OF
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SCALE
SUDE GATE IN ARLOCK TOWER = L. S. = #20,000
3LIDE GATES & POOL OUTLETS (8'x8') 2EA @ \$ 10,000 = (\$20,000)
3LIDE GATES IN FLUMES 1 EA 6'x8' @ \$ 5000 = \$5000 4 EA 3'x5' & \$ 2000 = \$\$
1 EA 6'x8' @ \$ 5000 = \$\$500 4 EA 3'x5' & \$ 2000 = \$\$\$
6" & PYC IN DOWNFLOW UNITS
(6×70×6) + (6×7×25) = 3600 LF @ # 18 = (#64,800)
SETTUNG LAGOON DEAIN SYSTEM
ASSUME 6" PRIC @ 6'O.C. FULL LENGTH : 180' ((70/6)+1) x 180 = 2280 L.F. @ # 18 : #41,000)
PIPE TO TREATMENT BLDG. ASSUME 18" \$ x 250' @ \$50 = (\$\frac{4}{12,500})
Assume 18"\$ x 250' @ #50 = (#12,500) SLUDGE PUMP = L.S. @ (#35,000)
FLOATING WEIR = L.S. @ \$10,000
SUR TOTAL # 1097 350

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JOB CATAWISSA COST	ESTIMATE
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	SCALE
	ING DRUMS (16 REQ'D)
	INCL WATER WHEEL & STONE GRINDER)
	WATER WHEEL @ #8000
	STONE GRINDER & \$5000
· · · · · · · · · · · · · · · · · · ·	
	CALL #20,000 EA = (#320,000)
MINE	PORTAL REHABILITATION
	SSUME 200 L.F. C \$1000 /FT = (\$200,000)
S WDGE	E TREATMENT FACILITIES
	REF: QUOTATION FOR RAPID SLUDGE DEWATERING SYSTEM
	BY U.S. ENVIRONMENTAL PRODUCTS, INC.
	C RAUSCH CREEK TREATMENT PLANT
	111 1 200 000
	CAU (#200,000)
BUILDI	WGS
	CALL 3000 SF OVER SLUDE TREATMENT
	200 3F L18
	100 SF OFFICE
	200 SF STORAGE
	500 SF GARAGE
· · · · · · · · · · · · · · · · · · ·	TOTAL BUILDING = 4000 SF @ \$30 = 120,000)
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CENT	-04 8 1)-04			,
<u> </u>	ERAL SITE WORK			
•				
	P. Cap. In di	/	o 1 Am	
	CLEARING & GRUBI	ZING 12	2 AC C 1200 =	\$ 14,400
	SEEDING & FERTILI	ZING "	2 Ac C #1500 =	413,500
			1/	
	PERMETER FOICE	250	O CF G 12	# 30,000
	LIGHTING & POWER	DISTRIE	UTION = 18 =	# 15,000
			CALL	# 75,000
	· · · · · · · · · · · · · · · · · · ·	e e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·	
			· · · · · · · · · · · · · · · · · · ·	
1				
		:		
			#_	
	25% CONTINGE	B-TOTAL	= 2,012,350	2
	25% POUTING	cased	# 502 00-	
	L S/O CONTINUO			
			2,515,35	
			4 _	
	CALL To	7AL	# 2,600,000	
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WATER LEVEL TO	WINEL NO #1		
CONCRETE			
MINE PORTA	AL TREATMENT		
	WG APPROX. 10'W x 5'A		
	BOX & 25'LX 15'WX		
Oaka	= HONALL (20x12x2)-(10	· < ~ 2))	
LUNC,	SOWALLS (2x25x10)	A. J. R. E. J	
	E'WALL (15 x10)	x/27 x #250 = #16,	60
	TOP (17×20)		
	BOT (17×25)		
_			• • • • • • • • • • • • • • • • • • • •
FLUME TO A			1°
3 W X Z H X	11 x 90'L	The second secon	
Coic	= [(5x90) +(2x90x2')] x/	127 x #250: (#7500)	
			· · · · · · · · · · · · · · · · · · ·
			: .
FLUME FRU	ON STREAM DIVERSION	TO END OF PROJECT	
	4 FPS & 15 SF		
	(x3H x1'T		· ········
LENGTH &	650		
Coxc	= [(650×10)+(2×650×3)] ×/27 x #250 = \$ 96,300	7
		70,500	ソ
e de la composición	manna an		
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JOB CATAWISSA (DST	ESTIMATE
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SCALE	
DRUM WSTAUATION #1 25'L x 15'W x 10'H x 1'T CONC = [(6x27)+(55x10)] x /27 x #250 = [# 9,00]	
DRUM INSTALLATIONS #2 ; #3 50' x 20' W x 10' H x 1'T	
Cove [(21x52) + (90x10)] x2x/27x #250: [#36,900]	:
DIVERSION STRUCTURE 30'LX 8'DX 3'W X/27 X #300 = \$800	
(SUB-TOTAL CONC = #174,400)	

JOB CATAWISSA CREE	K COST ESTIMATE
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EARTHWORK	
EARIANORA	
POCK EXC. @ PORTAL	
AUON 50 CY @ #50 = (#2500)	
	e sala a a e a a a a a a a a a a a a a a a
DIVERSION FLUME	
Exc: 650 × 12 × 4 × 1/27 × #3.00 = (#3500)	
Diversity O 1 - 15-	
DIVERSION STRUCTURE	
Exc = 35x 5 x 4 x /27 x # 3.00 = (# 100)	
DRIVE LISTAL ATIONS	
DRUM INSTALLATIONS	
Exc = 3/x 2/x 8 x/27	
$2 \times 56 \times 26 \times 8 \times 1/27$ \ \times \pm 3.00 = \begin{pmatrix} \pm 3200 \\ \pm \end{pmatrix}	
COMPACTED BACKFILL	
2×650×4	
(55+90+90) x 8 \ x1/27 x #6.50 (#1800)	<u></u>
2x35x4	
SUDE CATE Q M. II Done	······································
SUDE GATE @ MINE PORTAL AUON \$20,000	
MISC. FLOW CONTROL DEVKES ALLOW #15,000)	
REVOLVING DRUMS (12 REG'D.).	
LEVELVING DEUTS (16 REGU.).	· · · · · · · · · · · · · · · · · · ·
	···
12 @ #20,000 = (#240,000)	
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GEO-TECHNICAL	SERVICES
Consulting Engineers	& Geologists

JOB CATAWISSA CRE	EX COST ESTIMATE
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SERVICE ROAD		
860 x 15		
800 x 15 /		
120 x 15		
110 x15 \ x1/9 x #15=	(#64,400)	i i i i i i i i i i i i i i i i i i i
50x50		
50x60		
60×80 J		
		*
MAINTENANCE BUILDING (INCL)	IND DEEINE STORE C	ADARE
	AD, OFF ICE, INCREED, UN	IRAGE J
11100 2-00 85 6	n#- (#12000)	
ALUN LOW SE	30 = (# 60,000)	
GENERAL SITE WORK		
CLEARING/GRUBBING ! SEED,	NG/FERT. 5 ACE 2700	= #13,500
LIGHTING / FENCING ETC.	ALLOW \$ 20,000	
		**
3UB-TOTAL = #618,400		
25% CONTINGENCY : 154,600		
# 773,000) <u> </u>	
	market and the second of the s	the second secon
CALL TOTAL = # 773	5,000	<u> </u>
		<u> </u>

GEO-TEC	HNICAL	S	ERVICES
Consulting	Engineers	&	Geologists

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WATER LE	VEL IUMA	JEC TC				
Concre	TE .					
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AIRLOCK			· · · · · · · · · · · · · · · · · · ·	e de la companya de l	· · · · · · · · · · · · · · · · · · ·	
REG	O'D FLOW	= 50 CFS				
ALL	OWABLE V	LELOCITY &	4 FPS		· · · · · · · · · · · · · · · · · · ·	: :
	REO'D AR					
	LL d'x d'					
			(223	and the second s	to the grown organic common was	
HE	IGHT = 25	5 ^z			and the second of the second	
	i 	Γ				
		CONC. = 16	(2x6)+(2x4)]	x 25 x 1/27 x 4	375 = (#	7000
		· L				
			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
FLUME P	FROM AIRLO	CK TOWER	TO DOWNFLO	W BEDS		
RE	PD FOR	10 CFS MA	1x e 4FPS			·
				4.5		
and the control of th			WALLS & SL	AR .	- i	
		/	' WALLS & SL	AB	• :	n
	VGTH = 6	/	WALLS & SL	AB	• :	
	NGTH = 6	o'				
	NGTH = 6	o'			· #5000)
	NGTH = 6	o'	WALLS & SL 5+2+2) × 60		· = (*5000	
	NGTH = 6	o'			* (* 5000)
L	V67H = 6	o'			* * 5000	
DOWNFLO	W67H = 6	o'			* (* 5000	
DOWNFLOW RE	W6.TH = 60 W BEDS G'D 400	o' Baxc = (5+2+2) × 60		* * 5000	
DOWNFIDE RE	W6.TH = 60 W BEDS G'D 400	o' Baxc = (5+2+2) × 60		* (* 5000	
DOWNFLOW RE	W BEDS 9'D 400 'Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOW RE	W BEDS 9'D 400 'Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOW RE	W BEDS 9'D 400 'Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60	×/27 × #250		
DOWNFLOW RE	W BEDS 9'D 400 'Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFIDE RE	W BEDS 9'D 400 'Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOW RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOR RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOW RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOR RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOW RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFIDE RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		
DOWNFLOR RE	W BEDS G'D 400 Lx 10'W	0' 2avc. = (SF. 5'H W/1	5+2+2) × 60.	×/27 × #250		

GEO-TEC	HNICAL	S	ERVICES
Consulting	Engineers	&	Geologists

JOB CATAWISSA COST	ESTIMATE
SHEET NO. 2	of
CALCULATED BY WEH	DATE
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	SCALE	
Down Vijarali ar.		
DRUM INSTALLATION		•
15'W x 15'L x 15'H	WALLS	
Cove. = 103	5x15)+(3x15x15)]x/29 x #25	0 = \$8300
FLUME FROM DRUM TO STR		er entre en
TOTAL TRUM DRUM TO STR	EA)(e and the second of an area and an area and an area and an area and area.
3'w x2'H x 100'L		and the same of th
CONC. = (3	+2+2) × 100 ×/27 × #250 =	(#8300)
		e e maniero de la compressión dela compressión de la compressión dela compressión de la compressión de
	<u> </u>	
SUB-TOTAL CO	wc. = \$38,100	i i i i i i i i i i i i i i i i i i i
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JOB CATAWISSA	COST ESTIMATE	_
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	SCALE
	I PIPE TO LAGOON
Assu	ME 36" & CONC PIPE X 150'L X # 46 = (# 6900)
	PIPE TO AUDENRIED
2"¢	Puc PIPE x 2500'L @#9.00 = (# 22,500)
EARTHWO	
€ AIRU	EXCAVATION = 14 × 14 × 25 × 1/27 × 430 = \$\frac{\pi}{2} 5400
	COMPACTED BACKFILL = [(14x14)-(5x5)] x 20x/27 x #5 = (#
@ FWM	E TO BEDS
	EXCAVATION = 7x3x60x1/27 x #3.00 = (# 200)
	COMPACTED BACKFILL = (#100)
e Dow	NFLOW BEDS
	EXCAVATION = 40× 14× 6 × /27 × #3,00 = #400
	COMPACIED BACKFILL = [#100]
•	

JOB CATAWISSA CREEK	COST ESTIMATE
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$ \begin{array}{c} = \#300 \\ \\ = \&2 \text{LUDGE PIPE} \\ \\ = &2 \text{EXCAVATION} = &2 \text{SOO} \ \text{LF} \times 3' \text{D} \times 3/2' \text{W} \times 1/27 \times 1/3 \text{LO} = &4 \text{125} \\ \\ = &2 \text{CAVATION} = &2 \text{SOO} \ \text{LF} \times 3' \text{D} \times 3/2' \text{W} \times 1/27 \times 1/3 \text{LO} = &4 \text{LO} \times 1/2 \times 1/3 \text{LO} = &4 \text{LO} \times 1/2 \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO} \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO} \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO} \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO} \times 1/3 \text{LO} = &4 \text{LO} \times 1/3 \text{LO}$,	SCALE
CON(PACTED BACKFILL = [(5×6)-(T(2))] × 150×1/29 ×#2.50 E 3LUDGE PIPE EXCAVATION = 2500 LF × 3'D × 3/2 W × 1/29 × M3.00 = (#125) C LAGRON EXCAVATION = [1/200+5600] × 10×1/29 × M3.00 = (#3300) SERVICE ROAD L = 400' t W = 15' t	e BA	ICKWASH PIPE
EXCAVATION = 2500 LF × 3'0 × 3/2 W × 1/29 × 43.00 = #125 C LAGOON EXCAVATION = [1/200+5600)] × 10 × 1/29 × 43.00 = #13500 SERVICE ROAD L = 400' t W = 15' t ASSUME *15/5Y COMPLETE 400 × 15 × 1/9 × 5 = #10,000 NOTE : MAIN BERVKE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WIT *3 ESTIMATE		EXCAVATION = 150 x 5 x 6 x /27 x #3.00 = (#500)
EXCAVATION = 2500 LF × 3'D × 3/2 W × 1/27 × 43.00 = \$\frac{\pi}{25}\$ C LAGON EXCAVATION = [\frac{\pi}{200} + 5600] 10 × 1/27 × 43.00 = \$\frac{\pi}{3300}\$ SERVICE ROAD L= 400't W = 15't ASSUME *15/5Y COMPLETE 400 × 15 × 1/9 * 1/5 = \$\frac{\pi}{10,000}\$ NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT *3 ESTIMATE		COMPACTED BACKFILL = $\left[(5 \times 6) - (\pi (32)^2) \right] \times 150 \times 121 \times 2.50$
EXCAVATION = 2500 LF × 3'0 × 3/2 W × 1/29 × 43.00 = \$\frac{\pi}{125}\$ C LAGOON EXCAVATION = \begin{align*} \langle \(\langle \cong \) = \(\langle \cong \cong \) = \(\langle \cong \cong \) = \(\langle \cong \cong \cong \) = \(\langle \cong \cong \cong \) = \(\langle \cong \cong \cong \cong \cong \cong \cong \cong \) = \(\langle \cong \c		(= #300)
EXCAVATION = [1/2(20) + 5600)] × 10 × 1/27 × 43.00 = [43300] SERVICE ROAD L = 400 ± W = 15' ± ASSUME #15/SY COMPLETE 400 × 15 × 1/9 × 15 = [#10,000] NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE	e sl	UDGE PIPE
EXCAVATION = [\(\(\) \		EXCAVATION = 2500 LF x 3'0 x 3/2 W x 1/27 x 43.00 = \$1250
SERVICE ROAD L= 400' t W = 15' t ASSUME #15/SY COMPLETE 400 x 15 x 1/9 x 1/5 = (#10,000) NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE	e LA	Gaow
SERVICE ROAD L= 400' t W = 15' t ASSUME #15/SY COMPLETE 400 x 15 x 1/9 x 1/5 = (#10,000) NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE		EXCAVATION = [12(200+5600)] × 10 × 1/27 × #3.00 = [#3300]
L= 400' ± W = 15' ± ASSUME #15/SY COMPLETE 400 × 15 × 1/9 × 15 = (#10,000) NOTE: MAIN SERVE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE		
400 x 15 x 1/9 x 15 = (#10,000) NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE	SERVI	(= 400' ± W = 15' ±
NOTE: MAIN SERVICE ROAD INCLUDED W/ AUDENRIED GENERAL GRADING PER WLT #3 ESTIMATE		
GENERAL GRADING PER WLT #3 ESTIMATE	NOTE: MI	
PER WLT #3 ESTIMATE	YUTE - Z	WA SERVICE ROAD MICLOUED WI ASSENCED
	GENE	RAL GRADING
ACUN GUNES & FICE - (FICU)		
en e		ACUN 60 MICS & 7/60 - (7/600)
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JOB CATAWISSA CREEK O	DET ESTIMATE
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SETTLING LAGOON DRAIN SYSTEM
PER WLT #3 ESTIMATE ALLOW (# 75,000)
SLIDE GATE IN AIRLOCK TOWER
ALLOW (#20,000)
MISC. FLOW CONTROL DEVICES ALLOW (\$ 10,000)
REVOLVING DRUM (IREQ'D.) CALL \$20,000)
MINE PORTAL REHABILITATION
ASSUME 200 LF @ # 1000/FT = [#200,000]
CENERAL SITE WORK
3 Ac = e = 2700 /Ac - (#8100).
SUB-TOTAL= #429,950 25% CONTINGENCY = 107,500
¥537,450
CALL TOTAL # 535,000

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	SCALE	
ONEID	DA TOUNEL	
Con	KRETE	
	AIRLOCK TOWER	
· · · · · · · · · · · · · · · · · · ·	REG'D. CAPACITY & 30 cfs @ 4FFE & BSF	· · · · · · · · · · · · · · · · · · ·
	CALL 4'x4'x 3/2'T x50'H	
	CONC = [(2x7)+(2x4)] x \$/2 x 50 x 1/27 x \$375 = \$\frac{#}{22,900}\$	<u> </u>
	84" \$ RCP	
	185 LF @ 4200 = \$37,000	
	24"\$ RCP	
	550 LF @ #18.50 = (#10,200)	and manufacture and
	DOWNFLOW BEDS	
	4 e 50'L x/2'W x 7'D x/'T	(, :
	CONC.=[(50×14)+(2×50×7)+(2×14×8)]×4×/27× #250= #60,	100
. <u>i</u>		
	DRUM INSTALLATIONS (ZREGO.)	
	CONC : (20×15)+ (50×8) × 2×/27 ×250 = (#13,000)	
· .	SLUDGE PIPE TO LAGOON	
	48" RCP x 150 LF. = \$65 = \$9750	
	40 \$ 201 1, 100 07. 2 100 2	

JOB CATAWISSA COST E	STIMATE
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SCALE
CONC. SILLS IN AERATION CHANNEL
ASSUME 15'Lx 2'Hx 1'W (APPROX 25 REO'D)
CONC = 25 x 15x2x 1/27 x #250 = (#6900)
FLUMES TO DRUMS
APPROX. 150 LF x 4'w x 2'H x/'T
CONC. = 150 (6+2+2) × 1/27 × # 250 = (# 13,900)
EARTHWORK
ROLLED EMBANKMENT (FILLING EXIST. RAVINE)
ROLLED EMBANKMENT (FILLING EXIST. RAVINE) 30,000 CY & 2.00 = \$\frac{4}{60,000}\$
2.00 (160,000)
EXCAVATION = 10,000 CY @ \$3.00 = (\$30,000)
COMPACTED BACKFILL = 400 CY @ \$6.50 = \$2600
POUR SUPPLIE
ROAD SURFACE
300 × 15
530 × 15
30 x 15 \ x 1/9 x #15.00 = (#26,800)
30 x 15
70×30
20 x 30 J
en e

JOB CATAWISSA	COST ESTIMATE
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	DOWNFLOW BEDS BOO LF @ #1L = (#12,800) 1 @ (4 REQD.) 1 @ #20,000 = (#80,000) DRAIN SYSTEM AUDENRIED ALLOW (#100,000) FRACILITIES		
	AIRLOCK TOWER		
	DOWNFLOW BEDS	Allow (#)	(2,000)
REVOLUNIA DRIV		116 = (#12,800)	
		= (\$ 80,000)	
SLUDGE LAGOON PER		OW (#100,000)	
SLUDGE TREATMEN	T FACILITIES		
BUILDINGS			
LAB, OFFICE,	STORAGE, GARAGE	erc 3000 Se e 3	6 = 90,000

SHEET NO. 4 OF 4

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MINE PORTAL REHABI	LITATION			
ASSUME	200 LFC	# 1000 =	£200,000)	
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GENERAL SITE WOR	<u> </u>			
4 Ac e	2700 :	# 10,8	∞	
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LIGHTING, FENCING	<i></i>	<u> </u>	a material and a subject of the subj	
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ALLOW (4	20,000)			
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SUB-TOTAL	= 1,038	,750		
25% CONTINGENCY	= 260	0,000		
SUB-TOTAL 25% CONTINGENCY	#1,298	3 750		
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		and the second s		
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CALL TOTAL	= #1,300	0,000		
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•	SCALE
WATER LEVEL TUNNEL #3	
CONCRETE	
AIRLOCK TOWER	
REQ'D FLOW = 20 CFS	
ALLOWABLE VELOCITY &	4 FPS
:. REQ'D AREA \$ 53F	
HOWEVER : MUST BE	
CALL 4'x4'W1'T. WALL	28
HEIGHT = 20'	
CONC = [(2×4)+	(2×6) x20×1/27 x #375= (#5600)
FLUME FROM AIRLOCK TOWER TO	O DISTRIBUTION BOX
CAPACITY & 20 CF3 @	AFPS
	ANNEL W/ I' WALLS & SLAB
	ance wy rance recas
LENGTH = 30	
$CONC = (30 \times 7)$	+ (2×30×2) ×/27 × #250 = (#3100)
FLUME FROM DISTRIBUTION BOI	X TO DOWNFLOW UNITS
1== 110 = ='12 × 2'1 × 1'T	v 2011 /2 Peoin)
ASSUME 5'W X 2'H X/T.	x 20 t (2 x = 4 D.)
CONC. = 1(40×7)	1(2×40×2) ×/27 × #250: #4100
EMERGENCY BYPASS	
manamanan on anomorous on the contract of the first of the contract of the con	
(nuc. (70 x 7).	+ (2×70×2) ×/27 × #250 = (#7100)
[10,17]	1-100
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SCALE
(AM FLOW) DUSPEION STRUCTURE
COW FLOW DIVERSION STRUCTURE
ASSUME CONC. WEIR TYPE
3'H + A'BELOW GRD. = 7'N
3'THICK X 50'L.
CONC. = 7x3x50 x /27 x 4300 = [# 11,700]
FLUME FROM LOW FLOW DIVERSION TO DISTR. BOX
ASSUME 200'L x 2'W x 2'H W/ 1'T. WALLS & SLAB
ADDICE ZOU LA XIVAZA WY / I. WALLO 7 DEAD
CONC. = [(200×4)+(2×20×2)] ×/27×4250= #14,800)
DOWNFLOW UNITS
2 @ 290 L.F. EACH
5'W x 4' H. W/ 1'T WALLS & ZLAB
Conc. = [(580×7) + (2×580×4)]×/2/250 = (#80,600)
FLUME FROM DOWNFLOW DNITS TO DRUM
Assume 5'W x 2'H x /20'L.
Conc. = [(120×7) + (2×120×2)] ×/27 × \$250 = [\$12,200]
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JOB CATAWISSA COST	ESTIMATE
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DRL	IM IN:							,					•					
-		w x K	5'4 1	u/	"W	145												
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Dis	TRIBUT	TON A	Bax				: : :	<u>.</u>	-	i t	<u> </u>					:		
	8'	x8'x8	8'x/	' T 1			: : :		•						·			
			i	Γ,	···· .					· ·		7					<u> </u>	_
		Cor	VC =	[(2	x IO x	10)	+ (] 2×8×	10) 1	(2x	Bx &	3)]×/.	27 X	250) =	#	<i>45</i> 0	2
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1 OW	FLOW DIVERSI	ON STERT)PF			
	EXCAVATION	= 5×55×	4x/27x	#3.00 =	[#200]	
	COMPACTED &	PARVEUL -	[[====1]	12,1,501	7x/2 #1 ==	- \$200
	COMPACTED E	MCKI-ICC S	11282284	-13×4×30)	1-46,50	" ("200)
FLUI	VES					
	(20		non harman and a second			· · · · · · · · · · · · · · · · · · ·
			-4 -	<u> </u>		
	EXCAVATION =	- 200 x 4	1×2 ×1/27) <u></u>		
			1x2 x 1/27			
				- L# -	(47)	
			x 2 x /27	X "3.00	= (#700)	
		70 x 9	2 x 1/29	.		
		120 x 9	2 x 2 x /27			
						<u> </u>
	COMPACTED E	BACKFILL =	(2×460)	x 1x2)x/2	7 × #6.50 =["	7500)
•						
DISTA	RIBUTION BOX	- 1 - + - + +				
: :						
	EXCAVATION	(Inxinxi	a) 1/27 -	300 = / 3	# 1000	
	LACAVATION		2) 121 " =		100	
					G.	7
	COMPACTED A	BACKFILL =	40×9x,	127 x #6.5	50 = \$100	2
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JOB CATAWISSA	COST	ESTIMA	TE	
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		SCALE	
	DOWNFLOW LINITS		,
	EXCAVATION - 580 × 9×	5 x 1/27 x # 3.00	= (#2900)
:	COMPACTED BACKFILL:	2x 580 x 1x 5 x	1/27 x \$6.50 = \$ 1400
	DRUM INSTALLATION		
	EXCAVATION = 17×17×9	x 1/27 x # 3,00	=[#300]
	COMPACTED BACKFILL =	[(Rx17)+(17x2x4)	1x/27x #6.50= [#100]
	SLUDGE LAGOON		
	Sura chaun		
	LACOON EXCAVATION (C	I = ANING)	
	LAGOON EXCAVATION (C. CALL 16,000 SF	x 2'D x 1/27 x	#.2.00: (#3600)
	ROLLED EMBANKMENT	= 2600 CY @ #	3.00 = 1 7800
	SLUDGE PIPE TO AUDENRIE	7	
:	EXCAVATION = 5000 LF	× 30 × 3' Wx/2	1 x 43,00 = \$2500)
	2" \$ PVC PIPE = 5000	1=@#900=	(\$ 45 m)
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	SCALE
. 0-	
عد	RVICE ROAD TO AUDENRIED
	L = 5000'±
	$W = 15' \pm 10^{\circ}$
	ASSUME E'WORK, GRADING & SURFACE MAT'L @ #15/sy
	(500 x 15 x 1/9) x # 15 = (# 125,000)
RI	PRAP = 20'x60'x19 x30/sy = #4000
2=	NERAL CRADING
021	WERAL GRADING
	PER MEANS CONSTRUCTION CATALOG
	300 HP DOZER C 70 C.Y. / HR
	Cost # 1.73 / Cy
	: COST /HR = 70×1.73 - #120/HR
	ALLOW 80 HRS @ #120 = (#9600)
	TTLING LAGOON DRAIN SYSTEM
· ;	PUMPS, PIPES, FLOATING WEIRS ETC
	AUDENRIED SYSTM 2 100,000 WLT #3 MAY HAVE A SMALLER DIZAIN SYSTEM
	WLT #3 MAY HAVE A SMALLER DIZAIN SYSTEM
	BUT REQUIRE MORE PUMPING POWER
	ALLOW FOR SLUDGE HANDLING FACILITIES (#100,000)
	ALLOW FOR SLUDGE HANDLING FACILITIES (\$100,000)

CALCULATED BY TAG DATE 11/24/81

CATAWISSA CREEK SUMMARY OF ANNUAL LIMESTONE USE ANNUAL LIMESTONE TREATMENT LOCATION USE (TONS) 4291.4 WLT-A 40Z.Z WLT-0 2931.8 WLT-1 WLT-Z 179.5 WLT-3 181.2 CC-Z 8263.5 TONS OVERALL TREATMENT ANNUAL COST: LIMESTONE SHIPPED TO THE SITE @# 15.00/ TON X 8300 TONS = 124,500