

COST WORK BREAKDOWN STRUCTURE

ARES CORPORATION
JOB NUMBER 44556

SAMPLE PROJECT
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REPORTING PERIOD 3: JUN '99

FACILITY	PROJECT PHASE	CSI LEVEL 1	CONTROL ACCOUNT AND DESCRIPTION
0	HOME OFFICE COSTS		
	1	ENGINEERING	
		01	01 GENERAL CONDITIONS
			000.10111A Engineering Administration
			000.10111C Secretarial / Clerical
			000.10111M Project Management
			000.10112E Project Engineering
			000.10112P Process Engineering
			000.10113C Civil / Structural / Architechural
			000.10113E Electrical
			000.10113I Instrumentation / Automation
			000.10113M Mechanical / Layout
			000.10113P Piping
			000.10114A H.O. Construction Contracts Administration
			000.10114C H.O. Construction Services
			000.10114H Health & Safety
			000.10114Q QA/QC
			000.10115C Cost Engineering
			000.10115E Estimating
			000.10115S Scheduling
			000.10116A Procurement, Clerical
			000.10116E Expediting
			000.10116I Inspection
			000.10116P Procurement, Purchasing
			000.10116T Traffic
			000.10117A Project Accounting Services
			000.10117D Document Control
1	CRUSHING AREA		
	3	CONSTRUCTION	
		02	02 SITEWORK
			110.30221 FENCE 8' (2,44m) HIGH, CHAIN LINK W/O BARBED WIRE
			110.30229 GENERAL CLEAN.UP
			110.30233 CUT, FILL & COMPACT . HAUL 500 FT (152.4 m), 621B SCRAPER
			110.30243 ENGINEERED FILL
			110.30246 STRUCTURAL EXCAVATION . ROCK,
		03	03 CONCRETE
			110.30314 MAT FOUNDATION
			110.30324 FOOTINGS
			110.30354 WALLS
		04	04 MASONRY
			110.30443 CMU BLOCK WALLS, 8" (200mm) EVERY OTHER CELL GROUTED,

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FACILITY	PROJECT PHASE	CSI LEVEL 1	CONTROL ACCOUNT AND DESCRIPTION
		05	05 METAL WORK
			110.30516 LIGHT STRUCTURAL STEEL <21 LBS/LF (31.5kg/m)
			110.30517 MEDIUM HEAVY STRUCTURAL STEEL 21. 50 LBS/LF (31.5 . 75kg/m)
			110.30522 CONVEYOR BENTS, PIPE
			110.30524 FLOOR GRATING, C.S.
			110.30525 STAIR TREADS
			110.30534 STAINLESS STEEL LINER PLATE
			110.30551 ROOFING, METAL
			110.30555 FIELD PAINT STRUCTURAL STEEL
		08	08 DOORS AND WINDOWS
			110.30811 DOOR, H.M.,SINGLE W/FRAME, 20 GA. (1.00mm) & HEAVY
		11	11 EQUIPMENT
			110.31131 PRIMARY CRUSHER
			110.31136 VIBRATING GRIZZLY FEEDER
		14	14 CONVEYING SYSTEMS
			110.31455 CRUSHER DISCHARGE CONVEYOR

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NEGATIVE OPEN COMMITMENTS AND E.T.C.'S

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CONTROL ACCOUNT AND DESCRIPTION	% COMPLETE	ELEMENT	UNIT	ACTUAL TO DATE	OPEN COM.	TOTAL COMMITMENT	ESTIMATE TO COMP.	ESTIMATE AT COMP.
000.10114H Health & Safety	4.80	FREIGHT	USD	0	140	140	-140	0
	4.80	TAX	USD	0	180	180	-180	0
110.30314 MAT FOUNDATION	0.00	SUBCONTRACT	USD	0	19,000	19,000	-564	18,436

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CONTROL ACCOUNTS WITH NO APPROVED COST BUDGETS

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CONTROL ACCOUNT AND DESCRIPTION	CURRENCY	% COMPLETE	ACTUAL TO DATE	TOTAL COMMITMENT	ESTIMATE AT COMP.	APPROVED BUDGET	BASELINE BUDGET
000.10111A Engineering Administration	USD	27.20	0	0	0	0	0
110.30516 LIGHT STRUCTURAL STEEL <21 LBS/LF (31.5kg/m)	USD	0.00	0	0	0	0	0
110.30517 MEDIUM HEAVY STRUCTURAL STEEL 21. 50 LBS/LF (31.5 .	USD	0.00	0	0	0	0	0
110.31131 PRIMARY CRUSHER	FIM	0.00	0	0	0	0	0

INCONSISTENT TIME PHASED BUDGET DATA

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ELEMENT	UNIT	TOTAL APPROVED BUDGET	EARLY APPROVED SCHEDULE				EARLY TIME PHASED BUDGET				LATE APPROVED SCHEDULE				LATE TIME PHASED BUDGET							
			APPROVED BUDGET	START DATE	FINISH DATE	PER	APPROVED BUDGET	START DATE	FINISH DATE	PER	APPROVED BUDGET	START DATE	FINISH DATE	PER	APPROVED BUDGET	START DATE	FINISH DATE	PER				
000.10111A	Engineering Administration																					
LABOR	USD	78,328	1	04/27/1999	8	11/23/1999	78,328	0	1	0	8	0	6	09/02/1999	12	06/30/2000	78,328	0	3	-3	8	-4
FUND 1	USD	0	1	04/27/1999	8	11/23/1999	0	0	0	-1	0	-8	6	09/02/1999	12	06/30/2000	0	0	0	-6	0	-12
FUND2	USD	0	1	04/27/1999	8	11/23/1999	0	0	0	-1	0	-8	6	09/02/1999	12	06/30/2000	0	0	0	-6	0	-12
000.10113I	Instrumentation / Automation																					
LABOR	USD	67,989	2	05/12/1999	5	08/20/1999	67,989	0	3	1	3	-2	9	12/21/1999	12	03/30/2000	67,989	0	3	-6	3	-9
000.10113P	Piping																					
LABOR	USD	75,585	1	04/26/1999	7	10/11/1999	75,585	0	3	2	3	-4	7	10/14/1999	12	03/30/2000	75,585	0	3	-4	3	-9
000.10114H	Health & Safety																					
FREIGHT	USD	0	2	05/04/1999	6	09/07/1999	0	0	0	-2	0	-6	8	11/25/1999	12	03/30/2000	0	0	0	-8	0	-12
TAX	USD	0	2	05/04/1999	6	09/07/1999	0	0	0	-2	0	-6	8	11/25/1999	12	03/30/2000	0	0	0	-8	0	-12
110.30314	MAT FOUNDATION																					
MATERIAL	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
LABOR	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
110.30324	FOOTINGS																					
MATERIAL	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
LABOR	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
110.30354	WALLS																					
MATERIAL	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
LABOR	USD	0	6	09/09/1999	9	12/29/1999	0	0	0	-6	0	-9	9	12/13/1999	12	03/31/2000	0	0	0	-9	0	-12
110.31131	PRIMARY CRUSHER																					
MATERIAL	FIM	0	6	09/27/1999	12	03/24/2000	0	0	0	-6	0	-12	7	10/04/1999	12	03/31/2000	0	0	0	-7	0	-12
LABOR	FIM	0	6	09/27/1999	12	03/24/2000	0	0	0	-6	0	-12	7	10/04/1999	12	03/31/2000	0	0	0	-7	0	-12

INCONSISTENT TIME PHASED EARNED AND ACTUAL DATA

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ELEMENT	UNIT	EARLY CURRENT SCHEDULE		TOTAL APPROVED BUDGET	TIME PHASED EARNED					ESTIMATE AT COMPLETE	TIME PHASED ACTUAL								
		START PER DATE	FINISH PER DATE		TOTAL EARNED	AT COMP. VARIANCE	START PER VAR	FINISH PER VAR	TOTAL ACTUAL		AT COMP. VARIANCE	START PER VAR	FINISH PER VAR						
000.10111A	Engineering Administration																		
LABOR	USD	1	04/27/1999	8	11/23/1999	78,328	78,328	0	1	0	8	0	90,000	78,328	-11,672	1	0	8	0
FUND 1	USD	1	04/27/1999	8	11/23/1999	0	0	0	0	-1	0	-8	0	0	0	0	-1	0	-8
FUND2	USD	1	04/27/1999	8	11/23/1999	0	0	0	0	-1	0	-8	0	0	0	0	-1	0	-8
000.10112P	Process Engineering																		
LABOR	USD	1	04/08/1999	4	07/14/1999	414,258	414,258	0	2	1	4	0	273,008	273,008	0	2	1	4	0
000.10113C	Civil / Structural / Architechural																		
LABOR	USD	3	06/01/1999	9	12/20/1999	55,844	55,844	0	2	-1	9	0	55,844	55,844	0	2	-1	9	0
000.10113E	Electrical																		
LABOR	USD	3	06/01/1999	9	12/20/1999	83,981	82,385	-1,596	3	0	9	0	83,981	83,981	0	3	0	9	0
000.10113I	Instrumentation / Automation																		
LABOR	USD	2	05/12/1999	5	08/20/1999	67,989	67,989	0	3	1	4	-1	67,989	67,989	0	3	1	4	-1
000.10113M	Mechanical / Layout																		
LABOR	USD	3	06/01/1999	9	12/20/1999	207,598	207,598	0	2	-1	9	0	207,598	207,598	0	2	-1	9	0
000.10113P	Piping																		
LABOR	USD	1	04/26/1999	7	10/11/1999	75,585	75,585	0	2	1	4	-3	75,585	75,585	0	2	1	4	-3
000.10114A	H.O. Construction Contracts Administration																		
LABOR	USD	2	05/04/1999	6	09/07/1999	11,543	11,543	0	3	1	6	0	11,543	11,543	0	3	1	6	0
000.10114C	H.O. Construction Services																		
LABOR	USD	2	05/04/1999	6	09/07/1999	73,562	73,562	0	3	1	6	0	73,562	73,562	0	3	1	6	0
000.10114H	Health & Safety																		
MATERIAL	USD	2	05/04/1999	6	09/07/1999	4,000	4,000	0	3	1	6	0	4,000	4,000	0	3	1	6	0
LABOR	USD	2	05/04/1999	6	09/07/1999	12,801	12,801	0	4	2	6	0	12,801	12,801	0	4	2	6	0
FREIGHT	USD	2	05/04/1999	6	09/07/1999	0	0	0	0	-2	0	-6	0	0	0	0	-2	0	-6
TAX	USD	2	05/04/1999	6	09/07/1999	0	0	0	0	-2	0	-6	0	0	0	0	-2	0	-6
000.10116A	Procurement, Clerical																		
LABOR	USD	2	05/11/1999	7	10/19/1999	10,811	10,811	0	1	-1	7	0	10,811	10,811	0	1	-1	7	0
000.10116E	Expediting																		
LABOR	USD	2	05/11/1999	7	10/19/1999	3,665	3,665	0	4	2	7	0	3,665	3,665	0	4	2	7	0
000.10116I	Inspection																		
LABOR	USD	2	05/11/1999	7	10/19/1999	4,772	4,772	0	4	2	7	0	4,772	4,772	0	4	2	7	0
000.10116P	Procurement, Purchasing																		
LABOR	USD	2	05/11/1999	7	10/19/1999	49,335	49,335	0	1	-1	7	0	49,335	49,335	0	1	-1	7	0
000.10116T	Traffic																		
LABOR	USD	2	05/11/1999	7	10/19/1999	18,876	18,876	0	4	2	7	0	18,876	18,876	0	4	2	7	0
000.10117A	Project Accounting Services																		
LABOR	USD	1	04/27/1999	8	11/23/1999	25,086	25,086	0	4	3	8	0	25,086	25,086	0	4	3	8	0
110.30221	FENCE 8' (2,44m) HIGH, CHAIN LINK W/O BARBED WIRE																		
SUBCONTRACT	USD	6	09/27/1999	9	12/17/1999	36,582	36,582	0	3	-3	9	0	36,582	36,582	0	3	-3	9	0
110.30233	CUT, FILL & COMPACT . HAUL 500 FT (152.4 m), 621B SCRAPER																		
SUBCONTRACT	USD	6	09/27/1999	9	12/17/1999	14,950	14,950	0	3	-3	9	0	27,450	27,450	0	3	-3	9	0
110.30246	STRUCTURAL EXCAVATION . ROCK,																		

INCONSISTENT TIME PHASED EARNED AND ACTUAL DATA

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ELEMENT	UNIT	EARLY CURRENT SCHEDULE		TOTAL APPROVED BUDGET	TIME PHASED EARNED					ESTIMATE AT COMPLETE	TIME PHASED ACTUAL						
		START PER DATE	FINISH PER DATE		TOTAL EARNED	AT COMP. VARIANCE	START PER VAR	FINISH PER VAR	TOTAL ACTUAL		AT COMP. VARIANCE	START PER VAR	FINISH PER VAR				
SUBCONTRACT	USD	6 09/27/1999	9 12/17/1999	159	159	0	3	-3	3	-6	160	159	-1	3	-3	9	0
110.30314	MAT FOUNDATION																
MATERIAL	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
LABOR	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
110.30324	FOOTINGS																
MATERIAL	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
LABOR	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
110.30354	WALLS																
MATERIAL	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
LABOR	USD	6 09/09/1999	9 12/29/1999	0	0	0	0	-6	0	-9	0	0	0	0	-6	0	-9
110.31131	PRIMARY CRUSHER																
MATERIAL	FIM	6 09/27/1999	12 03/24/2000	0	0	0	0	-6	0	-12	0	0	0	0	-6	0	-12
LABOR	FIM	6 09/27/1999	12 03/24/2000	0	0	0	0	-6	0	-12	0	0	0	0	-6	0	-12

BUDGET ACCOUNT ASSIGNMENTS

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BUDGET/CONTROL ACCOUNT AND DESCRIPTION	P.P.M.	% COMPLETE
000.10111A Engineering Administration	HAE	27.2
000.10111C Secretarial / Clerical	CAE	24.1
000.10111M Project Management	CAE	32.4
000.10112E Project Engineering	CAE	33.6
000.10112P Process Engineering	CAE	4.4
000.10113C Civil / Structural / Architechural	ENG	28.1
000.10113E Electrical	ENG	5.9
000.10113I Instrumentation / Automation	MAN	19.0
000.10113M Mechanical / Layout	ENG	10.7
000.10113P Piping	ENG	0.0
000.10114A H.O. Construction Contracts Administration	CAE	15.2
000.10114C H.O. Construction Services	CAE	3.3
000.10114H Health & Safety	CAE	4.8
000.10114Q QA/QC	CAE	41.0
000.10115C Cost Engineering	CAE	12.2
000.10115E Estimating	CAE	27.7
000.10115S Scheduling	CAE	32.5
000.10116A Procurement, Clerical	CAE	33.9
000.10116E Expediting	CAE	0.0
000.10116I Inspection	CAE	0.0
000.10116P Procurement, Purchasing	CAE	22.9
000.10116T Traffic	CAE	0.0
000.10117A Project Accounting Services	CAE	0.0
000.10117D Document Control	CAE	34.9
110.30221 FENCE 8' (2,44m) HIGH, CHAIN LINK W/O BARBED WIRE	MAN	10.0
110.30229 GENERAL CLEAN.UP	MAN	0.0
110.30233 CUT, FILL & COMPACT . HAUL 500 FT (152.4 m), 621B SCRAPER	MAN	14.0
110.30243 ENGINEERED FILL	MAN	0.0
110.30246 STRUCTURAL EXCAVATION . ROCK,	MAN	100.0
110.30314 MAT FOUNDATION	MAN	0.0
110.30324 FOOTINGS	MAN	0.0

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BUDGET ACCOUNT ASSIGNMENTS

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BUDGET/CONTROL ACCOUNT AND DESCRIPTION	P.P.M.	% COMPLETE
110.30354 WALLS	MAN	0.0
110.30443 CMU BLOCK WALLS, 8" (200mm) EVERY OTHER CELL GROUTED, REBAR .94#/SF	MAN	0.0
110.30516 LIGHT STRUCTURAL STEEL <21 LBS/LF (31.5kg/m)	MAN	0.0
110.30517 MEDIUM HEAVY STRUCTURAL STEEL 21. 50 LBS/LF (31.5 . 75kg/m)	MAN	0.0
110.30522 CONVEYOR BENTS, PIPE	MAN	0.0
110.30524 FLOOR GRATING, C.S.	MAN	0.0
110.30525 STAIR TREADS	MAN	0.0
110.30534 STAINLESS STEEL LINER PLATE	MAN	0.0
110.30551 ROOFING, METAL	MAN	0.0
110.30555 FIELD PAINT STRUCTURAL STEEL	MAN	0.0
110.30811 DOOR, H.M.,SINGLE W/FRAME, 20 GA. (1.00mm) & HEAVY HARDWARE	MAN	0.0
110.31131 PRIMARY CRUSHER	MAN	0.0
110.31136 VIBRATING GRIZZLY FEEDER	MAN	0.0
110.31455 CRUSHER DISCHARGE CONVEYOR	MAN	0.0

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CONTROL ACCOUNTS WITH UNDEFINED SCHEDULE ACTIVITY

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CONTROL ACCOUNT AND DESCRIPTION**ACTIVITY ID**

110.30516	LIGHT STRUCTURAL STEEL <21 LBS/LF (31.5kg/m)
110.30517	MEDIUM HEAVY STRUCTURAL STEEL 21. 50 LBS/LF (31.5 . 75kg/m)