

ARCS V TECHNICAL STATUS REPORT
March 1991

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith
DATE PREPARED: March 26, 1991
COPIES: WAM: Kevin Adler, U.S. EPA Region 5
 PM: John Fleissner, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

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 BUREAU OF SOLID -
 HAZARDOUS WASTE MANAGEMENT

1. Progress Made This Reporting Period

The SM and RTL met with the WAM and the EPA's CO (Raymond Johnson) and PO (Stephen Nathan) to initiate the project at a kickoff meeting on March 14. Work Plan preparation is in progress.

2. Problems Resolved

The need for additional funding and time to prepare the Work Plan was requested at the kickoff meeting and acknowledged. The WAM and PO indicated that a revised Work Assignment form would be issued including the additional funding. The need for a meeting with the WDNR to discuss discharge criteria was acknowledged, and a meeting with the WDNR was set up by the WAM.

3. Problem Areas and Recommended Solutions

The scope of work for CH2M HILL with regard to groundwater treatment and design of the in situ bioremediation system is unresolved. The meeting scheduled with the WDNR should help to resolve the scope of the groundwater treatment design. The WAM is continuing discussions with Superfund Innovative Technology Evaluation (SITE) program administrators to resolve CH2M HILL's scope of work to design the bioremediation system.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

The Work Plan for this work assignment will be submitted. A meeting will be held in Madison with the WDNR on April 3 to discuss effluent limits and Best Available Technology (BAT) requirements.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

The SM and RTL traveled to U.S. EPA Region 5 in Chicago on March 14 for the project kickoff meeting.

9. Laboratories

None.

GLT861/056.51

ASTER PROJECT NO.: GLO65602
 STATUS: INITIAL AUTHORIZATION
 FUNDS ALLOCATED: 150,000

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 04/08/91
 RUN TIME: 03:42 PM
 AS OF: 03/91

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	
65602PP								
Project Planning - RD								
PM Project Management	A 11	248	248	0	2,039	2,287	450	-1,837
PP Project Planning General	A 64	2,494	2,494	0	1,392	3,886	711	-3,174
QC Quality Control	A 0	0	0	0	1,317	1,317	405	-912
WP EPA Workplan	A 48	4,724	4,724	0	5,220	9,944	3,834	-6,110
ED Existing Data Review	P 0	0	0	0	1,513	1,513		
Activity Total	39	7,466	7,466	0	11,481	18,947	5,400	-12,033
Work Assignment Total	39	7,466	7,466	0	11,481	18,947	5,400	-12,033

AUTH. TASKS w/INVOICED FEE	7,690	7,690						
AUTH. TASKS w/EST. FULL FEE	8,328	8,328			11,037	19,365	6,000	-13,364
PLANNED TASKS w/EST. FULL FEE					1,696	1,696		
ALL TASKS w/EST. FULL FEE		8,328			12,733	21,061		0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

	APR91	MAY91	JUN91	JUL91	AUG91	SEP91				
	11,034	1,695	0	0	0	0	Direct Labor	2,693	Indirects	4,525
	19,362	21,057	21,057	21,057	21,057	21,057	Equipment	0	Base Fee	224
<Overrun>							ODC	211	Award Fee	0
							Subcontracts	0	Travel	37
							Laboratory Service	0	TOTAL	7,690

MASTER PROJECT NO.: GL065602
 STATUS: INITIAL AUTHORIZATION
 HOURS ALLOCATED: 100

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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 Onalaska Municipal Landfill, WI

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PROFESSIONAL HOURS

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
65602PP									
Project Planning - RD									
PM Project Management	A	8	2	2	24	26	8	-18	
PP Project Planning General	A	61	35	35	22	57	14	-43	
QC Quality Control	A	0	0	0	17	17	8	-9	
WP EPA Workplan	A	51	74	74	71	145	70	-75	
ED Existing Data Review	P	0	0	0	24	24			
Activity Total		41	111	111	158	269	100	-145	
Work Assignment Total		41	111	111	158	269	100	-145	

===== AUTH. TASKS PLANNED TASKS ALL TASKS =====	111	111	134	245	100	-145	
			24	24			0
		111	158	269			

Projection: (Monthly/Cumulative)

APR91	MAY91	JUN91	JUL91	AUG91	SEP91
134	24	0	0	0	0
245	269	269	269	269	269

UNCLASSIFIED
 UNCLASSIFIED
 UNCLASSIFIED
 UNCLASSIFIED

MASTER PROJECT: GLO65602
 STATUS: INITIAL AUTHORIZATION
 ALLOCATION: \$150,000
 AUTHORIZED BUDGET: \$6,000

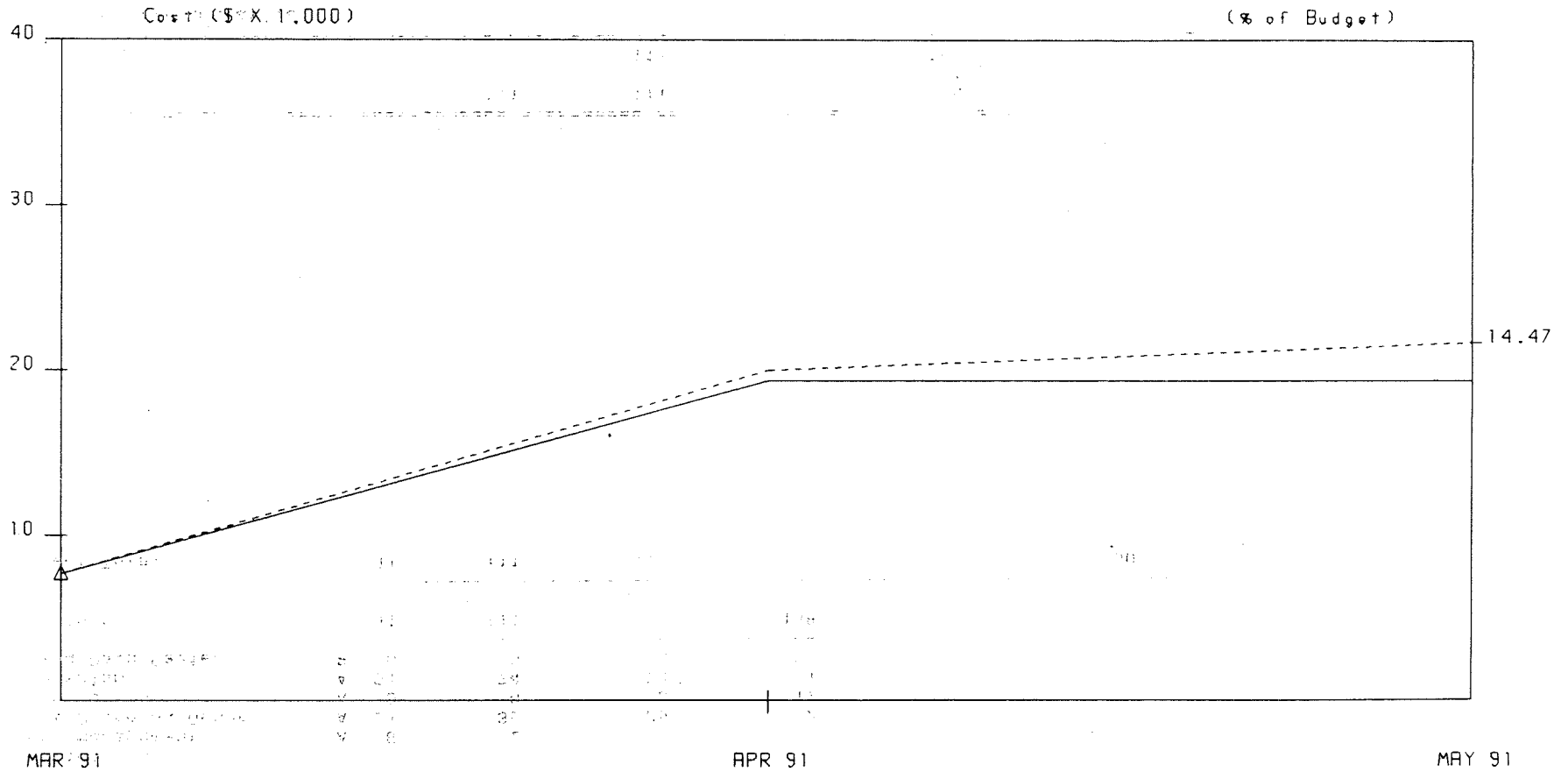
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NLS

REPORT: PRJ091
 RUN DATE: 04/05/91
 RUN TIME: 05:32 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

March 1991



▲▲▲▲ ACTUAL
 - - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
 _____ FORECAST (AUTHORIZED TASKS)

OBJECTS WITHIN THE PROJECT
 OBJECTS WITHIN THE PROJECT
 OBJECTS WITHIN THE PROJECT
 OBJECTS WITHIN THE PROJECT

MASTER PROJECT: GLO65602
STATUS: INITIAL AUTHORIZATION
ALLOCATION: 100
AUTHORIZED BUDGET: 100

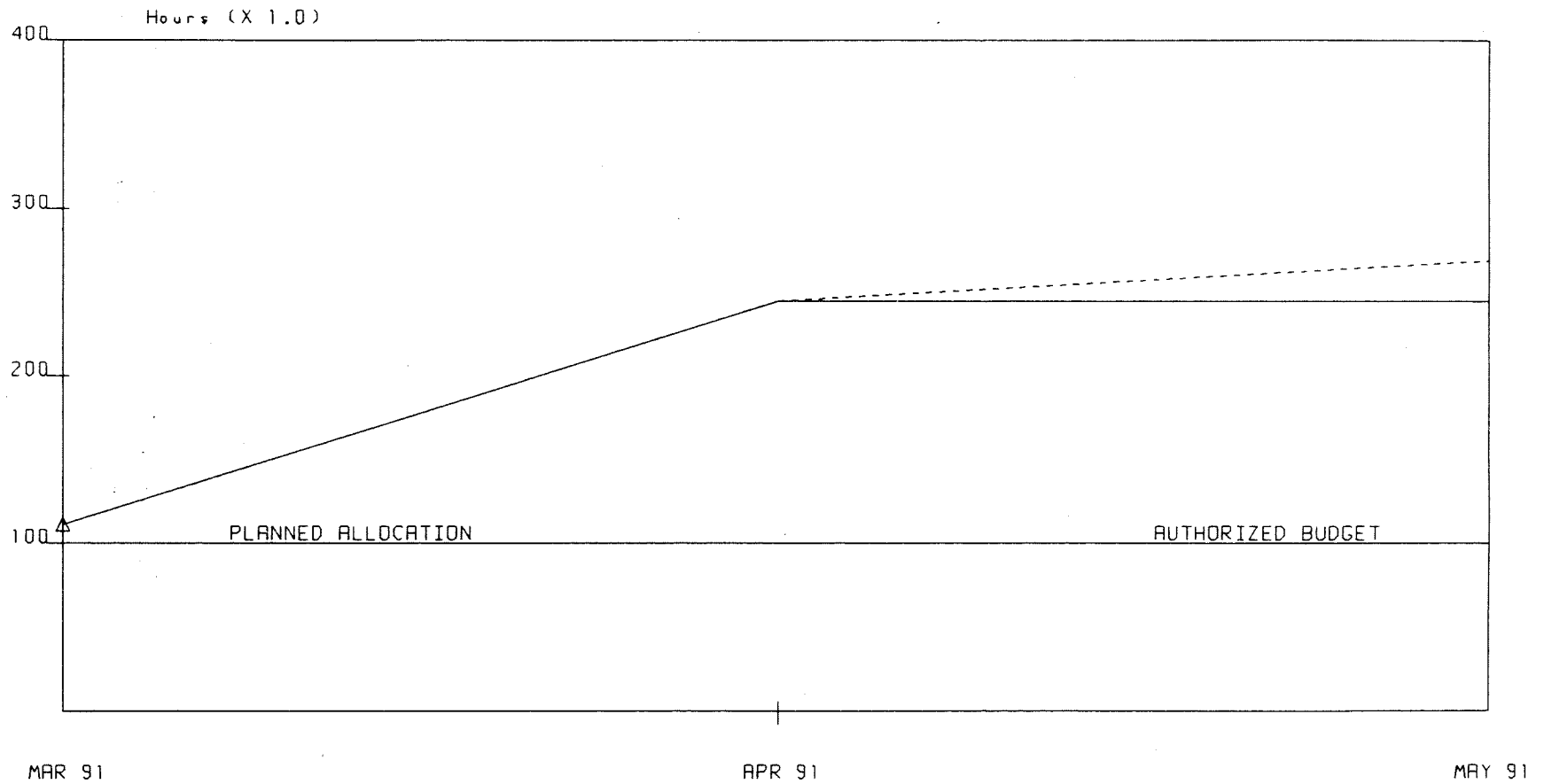
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 04/05/91
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ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

March 1991



△-△-△-△ ACTUAL
- - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
_____ FORECAST (AUTHORIZED TASKS)

S.F.U.L.
S. Smith
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ARCS V TECHNICAL STATUS REPORT
April 1991

MAY 21 1991

BUREAU OF SOLID -
HAZARDOUS WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: April 26, 1991
COPIES: WAM: Kevin Adler, U.S. EPA Region 5
PM: John Fleissner, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

A meeting was held in Madison, Wisconsin on April 3 to discuss effluent limits for the groundwater treatment system. The WDNR had previously verbally indicated that they would require Best Available Technology (BAT) for removal of VOCs and iron. The meeting was attended by the U.S. EPA WAM, CH2M HILL's SM and RTL (who was the SM for the RI/FS), and representatives from the WDNR. At the meeting, the WDNR reiterated that they would require BAT for removal of iron and VOCs, but did not identify specific criteria by which achievement of BAT would be measured. Rather, the WDNR recommended that CH2M HILL propose the BAT as part of the predesign submittal.

2. Problems Resolved

A revised work assignment was received on April 23 that included the additional scope of work (design of the in situ biotreatment system) as well as authorization of the additional expenditure required to prepare the work plan.

The discharge criteria issue was resolved in the meeting held with the WDNR on April 3.

3. Problem Areas and Recommended Solutions

The need to include groundwater treatment unit processes to remove compounds other than iron and VOCs is being assessed. Results of whole effluent toxicity testing of groundwater treated by the air stripper during the pump test (week of April 1) indicated the treated groundwater was toxic to test

organisms (*Ceriodaphnia* sp.). The failure of the effluent to meet this whole effluent acute toxicity criteria may indicate the need to provide treatment to remove compounds in addition to iron and VOCs. Because the WDNR indicated (at the April 3 meeting) that they could require additional treatment if the treated groundwater failed the bioassay testing, the Work Plan includes additional bioassay testing to confirm the toxicity of the treated groundwater, and to determine if the treatment system currently proposed will yield a non-toxic effluent. It is assumed that if results of the testing indicate additional treatment is necessary to pass the test, then consultation with the WDNR and U.S. EPA would be necessary to determine the need to incorporate additional treatment units.

The requirements for the outfall design have not been developed. The WDNR has indicated a preference for a cascading-type outfall to be constructed adjacent to either the Black River or the Dodge Chute. The Work Plan assumes a diffuser will be designed to discharge the treated water into the Black River or the Dodge Chute. Discussions between the SM, the WAM, and the WDNR will be necessary during the early stages of predesign to determine the outfall design requirements.

The schedule for deliverables in the work assignment indicates the prefinal design for the groundwater extraction system is due 105 days after approval of the work plan. The work plan proposes submitting the prefinal design for the groundwater extraction system along with the prefinal design for the groundwater treatment on November 20, approximately 180 days after approval of the work plan. The additional time is required to conduct bench-scale tests and to gain concurrence from the WDNR on the predesign report.

4. Deliverables Submitted

The Remedial Design Work Plan was submitted to the U.S. EPA for review and approval on April 17.

5. Activities Planned Next Reporting Period

Work Plan approval or revision/resubmittal is anticipated.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

The SM traveled to the site on April 2 to tour the site and to observe the pump test. The SM and the RTL (formerly the SM for the RI/FS) traveled to Madison on April 3 to discuss discharge requirements and Best Available Technology Requirements with the WDNR.

9. Laboratories

None.

GLT861/056.51

ASTER PROJECT NO.: GL065602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 150,000

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 AS OF: 04/91

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT	----- TO DATE	----- UNRECORDED TO COMPLETE -----	----- ESTIMATED ----- TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
65602DS										
Design Support Activities										
PM Project Management	P	0	0	0	0	5,010	5,010			4,981
QC Quality Control	P	0	0	0	0	5,283	5,283			5,151
MG Meetings (External)	P	0	0	0	0	10,328	10,328			10,246
GM Groundwater Monitoring Plan	P	0	0	0	0	30,113	30,113			29,347
MS Miscellaneous Support	P	0	0	0	0	5,577	5,577			5,440
LS Landfill Cap Support	P	0	0	0	0	6,124	6,124			6,023
Activity Total		0	0	0	0	62,435	62,435			61,188
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	P	0	0	0	0	20,498	20,498			20,498
EC Estimates - Cost	P	0	0	0	0	15,131	15,131			15,131
PM Project Management	P	0	0	0	0	14,705	14,705			14,705
QC Quality Control	P	0	0	0	0	13,684	13,684			13,684
GX Groundwater Extraction Desig	P	0	0	0	0	24,469	24,469			23,959
GT Groundwater Treatment Design	P	0	0	0	0	84,016	84,016			82,373
MG Meetings (External)	P	0	0	0	0	7,421	7,421			7,421
ML Manuals - Operations and Mai	P	0	0	0	0	18,833	18,833			18,833
IT Insitu Treatment Design	P	0	0	0	0	43,925	43,925			42,981
SL Construction Schedule Develo	P	0	0	0	0	25,740	25,740			25,740
Activity Total		0	0	0	0	268,422	268,422			265,325
65602PC										
Project Closeout										
PC Project Closeout Procedures	P	0	0	0	0	6,173	6,173			6,173
Activity Total		0	0	0	0	6,173	6,173			6,173
65602PD										
Preliminary Design										
EC Estimates - Cost	P	0	0	0	0	6,925	6,925			6,925
PM Project Management	P	0	0	0	0	10,192	10,192			10,192
QC Quality Control	P	0	0	0	0	5,843	5,843			5,843
QS QAPP/SSP/FSP	P	0	0	0	0	16,600	16,600			16,600
HS Health and Safety	P	0	0	0	0	3,643	3,643			3,643
R7 Report - Predesign	P	0	0	0	0	17,933	17,933			17,933
H6 Haz Waste Design - Advanced	P	0	0	0	0	45,985	45,985			45,985
H1 Haz Waste Design - Process E	P	0	0	0	0	51,325	51,325			51,325
MG Meetings (External)	P	0	0	0	0	5,770	5,770			5,770
C1 Civil Engineering Design - G	P	0	0	0	0	9,709	9,709			9,709
Activity Total		0	0	0	0	173,925	173,925			173,925

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 150,000

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS	EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	AT COMPLETE	BUDGET		VARIANCE
65602PP										
Project Planning - RD										
PM Project Management	A	12	1,142	1,391	0	10,103	11,494	2,790	-8,703	14,168
PP Project Planning General	A	100	1,146	3,640	0	0	3,640	2,880	-759	2,913
QC Quality Control	A	52	1,004	1,004	0	913	1,917	1,350	-566	1,893
WP EPA Workplan	A	88	3,934	8,658	0	1,165	9,823	10,260	436	10,288
ED Existing Data Review	A	0	0	0	0	25	25	720	695	2,577
Activity Total		55	7,226	14,692	0	12,206	26,898	18,000	-8,897	31,839
Work Assignment Total		3	7,226	14,692	0	523,161	537,853	18,000	-8,897	538,450

AUTH. TASKS w/INVOICED FEE	7,443	15,133							
AUTH. TASKS w/EST. FULL FEE	7,943	16,271			13,327	29,598	20,000	-9,597	
PLANNED TASKS w/EST. FULL FEE					565,188	565,188			
ALL TASKS w/EST. FULL FEE		16,271			578,515	594,786			595,841

Projection: (Monthly/Cumulative)

MAY91	JUN91	JUL91	AUG91	SEP91	OCT91
3,141	55,290	88,665	35,799	29,371	78,332
19,412	74,702	163,367	199,166	228,537	306,869
	<Overrun>				

Current Cost Invoiced:

Direct Labor	2,304	Indirects	3,870
Equipment	0	Base Fee	217
ODC	912	Award Fee	0
Subcontracts	0	Travel	140
Laboratory Service	0	TOTAL	7,443

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 250

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602DS									
Design Support Activities									
PM Project Management	P	0	0	0	64	64			64
QC Quality Control	P	0	0	0	64	64			64
MG Meetings (External)	P	0	0	0	140	140			140
GM Groundwater Monitoring Plan	P	0	0	0	416	416			416
MS Miscellaneous Support	P	0	0	0	80	80			80
LS Landfill Cap Support	P	0	0	0	84	84			84
Activity Total		0	0	0	848	848			848
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	P	0	0	0	300	300			300
EC Estimates - Cost	P	0	0	0	224	224			224
PM Project Management	P	0	0	0	196	196			196
QC Quality Control	P	0	0	0	160	160			160
GX Groundwater Extraction Desig	P	0	0	0	328	328			328
GT Groundwater Treatment Design	P	0	0	0	1,160	1,160			1,160
MG Meetings (External)	P	0	0	0	100	100			100
ML Manuals - Operations and Mai	P	0	0	0	272	272			272
IT Insitu Treatment Design	P	0	0	0	584	584			584
SL Construction Schedule Develop	P	0	0	0	382	382			382
Activity Total		0	0	0	3,706	3,706			3,706
65602PC									
Project Closeout									
PC Project Closeout Procedures	P	0	0	0	100	100			100
Activity Total		0	0	0	100	100			100
65602PD									
Preliminary Design									
EC Estimates - Cost	P	0	0	0	120	120			120
PM Project Management	P	0	0	0	148	148			148
QC Quality Control	P	0	0	0	84	84			84
QS QAPP/SSP/FSP	P	0	0	0	240	240			240
HS Health and Safety	P	0	0	0	48	48			48
R7 Report - Predesign	P	0	0	0	264	264			264
H6 Haz Waste Design - Advanced	P	0	0	0	544	544			544
H1 Haz Waste Design - Process E	P	0	0	0	638	638			638
MG Meetings (External)	P	0	0	0	80	80			80
C1 Civil Engineering Design - G	P	0	0	0	60	60			60
Activity Total		0	0	0	2,226	2,226			2,226

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 250

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		---- AUTHORIZED ----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602PP								
Project Planning - RD								
PM Project Management	A 12	12	14	107	121	42	-79	160
PP Project Planning General	A 100	13	48	0	48	40	-8	40
QC Quality Control	A 54	13	13	11	24	16	-8	24
WP EPA Workplan	A 90	49	123	14	137	142	5	142
ED Existing Data Review	A 0	0	0	0	0	10	10	40
Activity Total	60	87	198	132	330	250	-80	406
Work Assignment Total	3	87	198	7,012	7,210	250	-80	7,286

AUTH. TASKS	87	198	132	330	250	-80
PLANNED TASKS			6,880	6,880		
ALL TASKS		198	7,012	7,210		7,286

Projection: (Monthly/Cumulative)

MAY91	JUN91	JUL91	AUG91	SEP91	OCT91
34	763	1,001	339	343	967
232	995	1,996	2,335	2,678	3,645

CH2M HILL
 ARCS-V
 WORK ASSIGNMENT MASTER SUMMARY

MASTER PROJECT: GLO65602
STATUS: FINAL SUBMITTAL
ALLOCATION: 250
AUTHORIZED BUDGET: 250

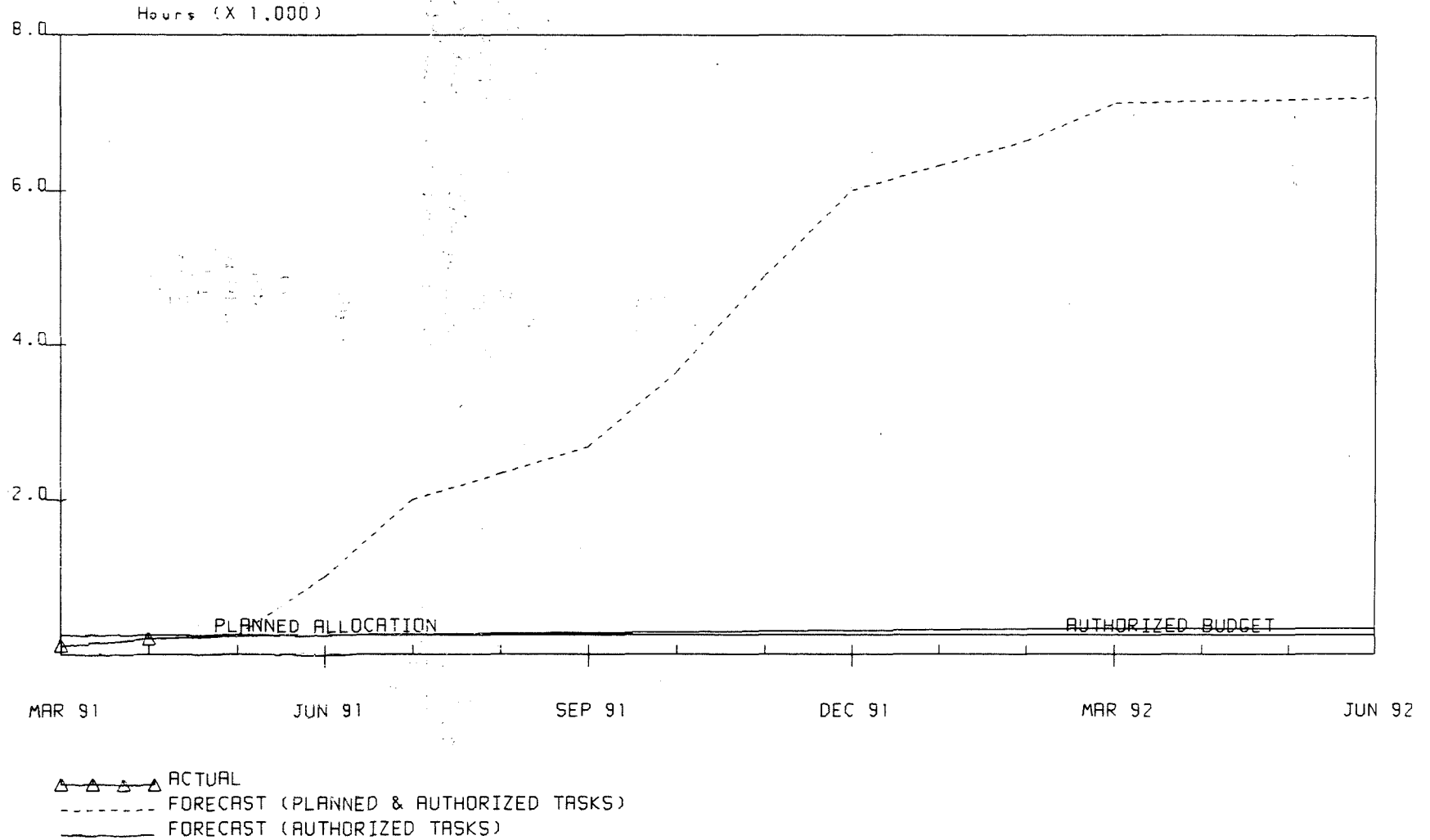
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38-5NL5

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ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

April 1991



Schmidt

ARCS V TECHNICAL STATUS REPORT
May 1991

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: May 28, 1991
COPIES: WAM: Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan, III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

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BUREAU OF SOLID -
HAZARDOUS WASTE MANAGEMENT

1. Progress Made This Reporting Period

U.S. EPA comments on the April 17 Work Plan were received and incorporated into a revised Work Plan, which was submitted on May 23.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

The revised Remedial Design Work Plan was submitted to the U.S. EPA for approval on May 23.

5. Activities Planned Next Reporting Period

Pending approval of the Work Plan and an increase in the expenditure limit, the preparation of treatability study plans will begin.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Travel expenses reported this month were incurred last month.

9. Laboratories

None.

GLT861/056.51

ASTER PROJECT NO.: GL065602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 150,000

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65602DS										
Design Support Activities										
PM	Project Management	P	0	0	0	5,038	5,038			4,981
QC	Quality Control	P	0	0	0	5,283	5,283			5,151
MG	Meetings (External)	P	0	0	0	10,409	10,409			10,246
GM	Groundwater Monitoring Plan	P	0	0	0	30,454	30,454			29,347
MS	Miscellaneous Support	P	0	0	0	5,576	5,576			5,440
LS	Landfill Cap Support	P	0	0	0	6,223	6,223			6,023
Activity Total			0	0	0	62,983	62,983			61,188
65602FD										
Prefinal/Final Design										
DS	Plans and Specifications	P	0	0	0	20,498	20,498			20,498
EC	Estimates - Cost	P	0	0	0	15,131	15,131			15,131
PM	Project Management	P	0	0	0	14,705	14,705			14,705
QC	Quality Control	P	0	0	0	13,684	13,684			13,684
GX	Groundwater Extraction Desig	P	0	0	0	24,469	24,469			23,959
GT	Groundwater Treatment Design	P	0	0	0	84,016	84,016			82,373
MG	Meetings (External)	P	0	0	0	7,420	7,420			7,421
ML	Manuals - Operations and Mai	P	0	0	0	18,833	18,833			18,833
IT	Insitu Treatment Design	P	0	0	0	43,925	43,925			42,981
SL	Construction Schedule Develop	P	0	0	0	25,740	25,740			25,740
Activity Total			0	0	0	268,421	268,421			265,325
65602PC										
Project Closeout										
PC	Project Closeout Procedures	P	0	0	0	6,173	6,173			6,173
Activity Total			0	0	0	6,173	6,173			6,173
65602PD										
Preliminary Design										
EC	Estimates - Cost	P	0	0	0	6,925	6,925			6,925
PM	Project Management	P	0	0	0	10,286	10,286			10,192
QC	Quality Control	P	0	0	0	5,843	5,843			5,843
QS	QAPP/SSP/FSP	P	0	0	0	16,600	16,600			16,600
HS	Health and Safety	P	0	0	0	3,643	3,643			3,643
R7	Report - Predesign	P	0	0	0	17,933	17,933			17,933
H6	Haz Waste Design - Advanced	P	0	0	0	45,985	45,985			45,985
H1	Haz Waste Design - Process E	P	0	0	0	51,325	51,325			51,325
MG	Meetings (External)	P	0	0	0	5,770	5,770			5,770
C1	Civil Engineering Design - G	P	0	0	0	9,709	9,709			9,709
Activity Total			0	0	0	174,019	174,019			173,925

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 150,000

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 AS OF: 05/91

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR				
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED	
65602PP										
Project Planning - RD										
PM Project Management	A	15	267	1,658	0	9,590	11,248	2,790	-8,457	14,168
PP Project Planning General	A	100	0	3,640	0	0	3,640	2,880	-759	2,913
QC Quality Control	A	77	535	1,539	0	450	1,989	1,350	-638	1,893
WP EPA Workplan	A	98	598	9,257	0	195	9,452	10,260	808	10,288
ED Existing Data Review	A	0	0	0	0	0	720	720		2,577
Activity Total		61	1,400	16,093	0	10,235	26,328	18,000	-8,326	31,839
Work Assignment Total		3	1,400	16,093	0	521,831	537,924	18,000	-8,326	538,450

AUTH. TASKS w/INVOICED FEE	1,442	16,575							
AUTH. TASKS w/EST. FULL FEE	1,490	17,761							
PLANNED TASKS w/EST. FULL FEE					11,176	28,936	20,000	-8,936	
ALL TASKS w/EST. FULL FEE		17,761			565,849	565,849			
					577,025	594,785			595,841

Projection: (Monthly/Cumulative)

JUN91	JUL91	AUG91	SEP91	OCT91	NOV91
2,618	9,331	101,856	78,019	56,998	78,820
20,379	29,710	131,566	209,585	266,583	345,403
<Overrun>					

Current Cost Invoiced:

Direct Labor	216	Indirects	363
Equipment	0	Base Fee	42
ODC	572	Award Fee	0
Subcontracts	78	Travel	172
Laboratory Service	0	TOTAL	1,442

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 250

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	P	0	0	64	64	64
QC Quality Control	P	0	0	64	64	64
MG Meetings (External)	P	0	0	140	140	140
GM Groundwater Monitoring Plan	P	0	0	416	416	416
MS Miscellaneous Support	P	0	0	80	80	80
LS Landfill Cap Support	P	0	0	84	84	84
Activity Total		0	0	848	848	848
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	P	0	0	300	300	300
EC Estimates - Cost	P	0	0	224	224	224
PM Project Management	P	0	0	196	196	196
QC Quality Control	P	0	0	160	160	160
GX Groundwater Extraction Desig	P	0	0	328	328	328
GT Groundwater Treatment Design	P	0	0	1,160	1,160	1,160
MG Meetings (External)	P	0	0	100	100	100
ML Manuals - Operations and Mai	P	0	0	272	272	272
IT Insitu Treatment Design	P	0	0	584	584	584
SL Construction Schedule Develo	P	0	0	382	382	382
Activity Total		0	0	3,706	3,706	3,706
65602PC						
Project Closeout						
PC Project Closeout Procedures	P	0	0	100	100	100
Activity Total		0	0	100	100	100
65602PD						
Preliminary Design						
EC Estimates - Cost	P	0	0	120	120	120
PM Project Management	P	0	0	148	148	148
QC Quality Control	P	0	0	84	84	84
QS QAPP/SSP/FSP	P	0	0	240	240	240
HS Health and Safety	P	0	0	48	48	48
R7 Report - Predesign	P	0	0	264	264	264
H6 Haz Waste Design - Advanced	P	0	0	544	544	544
H1 Haz Waste Design - Process E	P	0	0	638	638	638
MG Meetings (External)	P	0	0	80	80	80
C1 Civil Engineering Design - G	P	0	0	60	60	60
Activity Total		0	0	2,226	2,226	2,226

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 250

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602PP									
Project Planning - RD									
PM Project Management	A	12	0	14	102	116	42	-74	160
PP Project Planning General	A	100	0	48	0	48	40	-8	40
QC Quality Control	A	78	8	21	6	27	16	-11	24
WP EPA Workplan	A	98	0	123	3	126	142	16	142
ED Existing Data Review	A	0	0	0	0	0	10	10	40
Activity Total		65	8	206	111	317	250	-67	406
Work Assignment Total		3	8	206	6,991	7,197	250	-67	7,286

AUTH. TASKS	8	206	111	317	250	-67
PLANNED TASKS			6,880	6,880		
ALL TASKS		206	6,991	7,197		7,286

Projection: (Monthly/Cumulative)

	JUN91	JUL91	AUG91	SEP91	OCT91	NOV91
	30	129	1,291	823	687	969
	236	365	1,656	2,479	3,166	4,135

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: FIN SUBMITL

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		10/15/91 P		1
Landfill Cap. 60% Design Review	11/01/91		11/01/91 P		2
Landfill Cap. 90% Design Review	02/01/92		02/01/92 P		3
Prefinal/Final Design					
• Draft O&M Manual	10/28/91		10/28/91 P		4
Prefinal Design - GWT	11/20/91		11/20/91 P		5
Prefinal Design - ISB	11/27/91		11/27/91 P		6
Final Design - ISB	01/13/92		01/13/92 P		7
Final Design - GWT	01/21/92		01/21/92 P		8
Preliminary Design					
Bioremediation QAPP	07/07/91		07/07/91 P		9
Predesign Report - ISB	08/23/91		08/23/91 P		10
Predesign Report - GWT	08/30/91		08/30/91 P		11
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		12
Submit Final Work Plan	04/17/91		04/17/91 A		13
Submit Revised Final Work Plan	05/23/91		05/23/91 A		14
EPA Approval of Final Work Plan	05/25/91	06/07/91	05/25/91 P		15

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NOTES:

MASTER PROJECT: GLO65602
 STATUS: FINAL SUBMITTAL
 ALLOCATION: \$150.000
 AUTHORIZED BUDGET: \$20.000

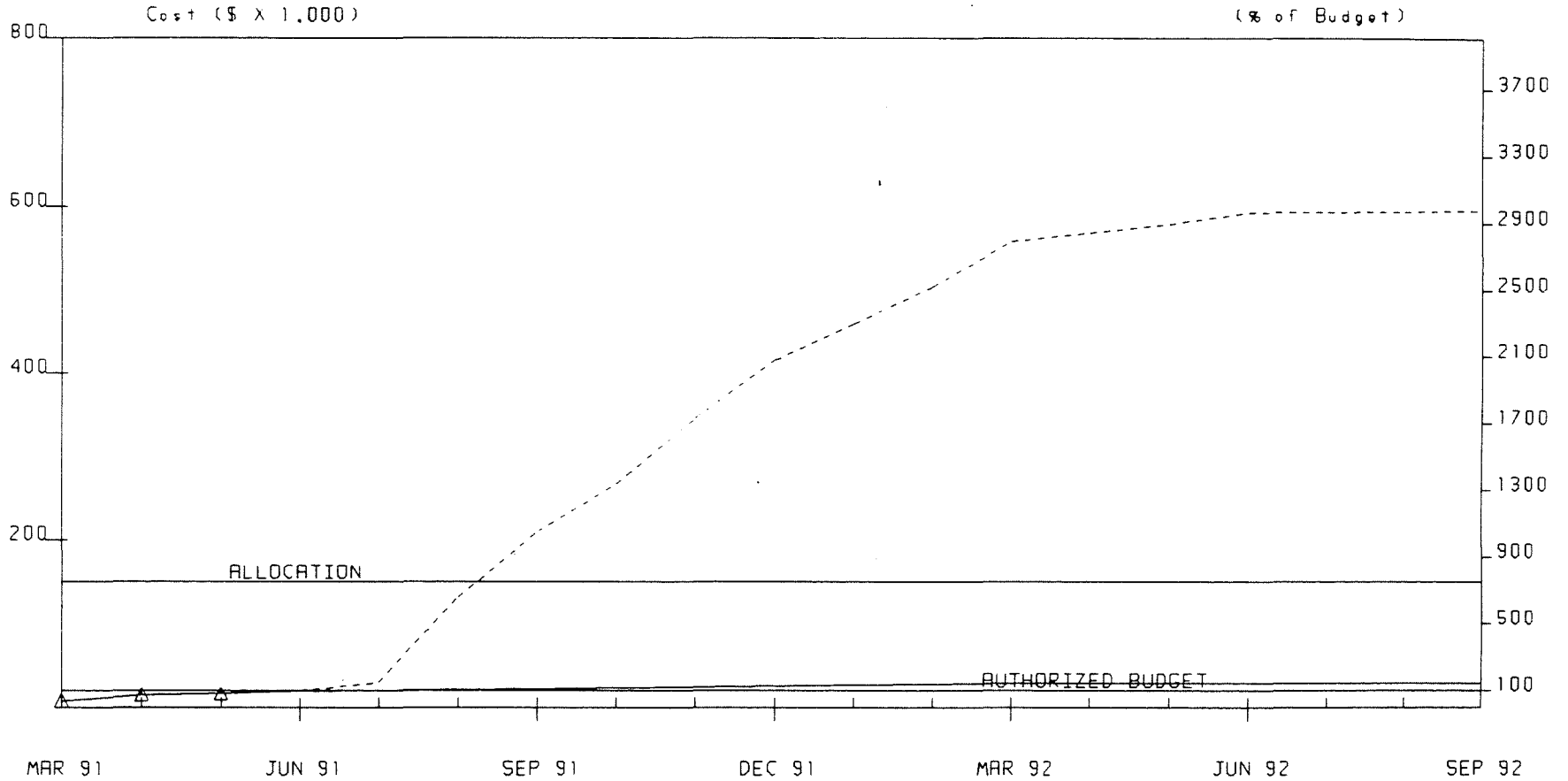
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 06/11/91
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ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

May 1991



▲ ▲ ▲ ▲ ACTUAL
 - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
 _____ FORECAST (AUTHORIZED TASKS)

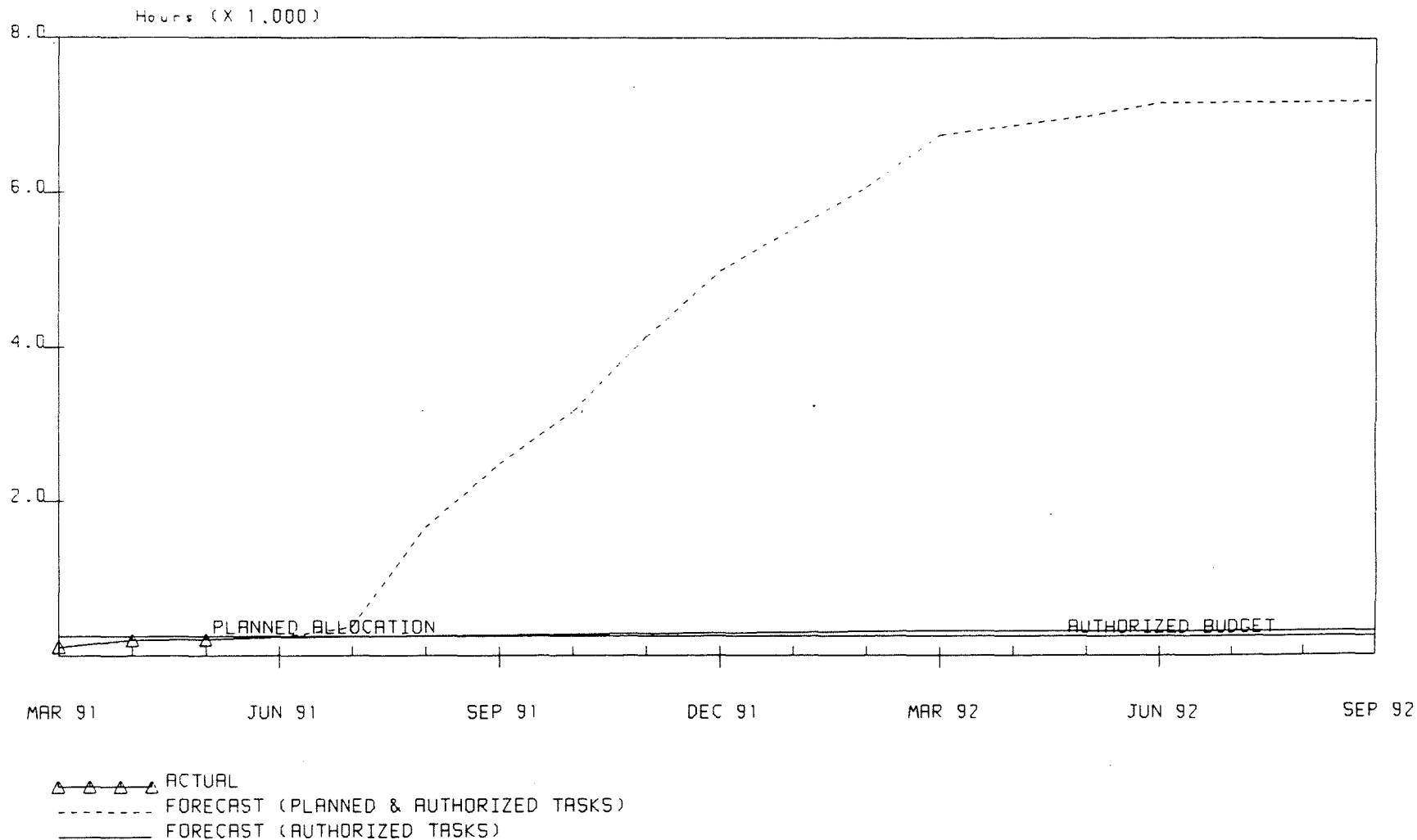
MASTER PROJECT: GLO65602
STATUS: FINAL SUBMITTAL
ALLOCATION: 250
AUTHORIZED BUDGET: 250

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
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ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

May 1991



~~SFU, L.~~
Robin Schmidt

ARCS V TECHNICAL STATUS REPORT
June 1991

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: June 27, 1991
COPIES: WAM: Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan, III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

No activities other than preparation of technical status report, milestones, and forecasting have been conducted during this reporting period.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Pending approval of the Work Plan and an increase in the expenditure limit, the preparation of treatability study plans will begin.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

GLT861/056.51

ASTER PROJECT NO.: GL065602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT	----- TO DATE -----	----- UNRECORDED -----	----- ESTIMATED ----- TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
65602DS										
Design Support Activities										
PM Project Management	A	0	0	0	0	5,038	5,038	4,948	-89	
QC Quality Control	A	0	0	0	0	5,283	5,283	5,107	-176	
MG Meetings (External)	A	0	0	0	0	10,409	10,409	10,221	-187	
GM Groundwater Monitoring Plan	A	0	0	0	0	30,454	30,454	29,355	-1,098	
MS Miscellaneous Support	A	0	0	0	0	5,576	5,576	5,457	-119	
LS Landfill Cap Support	A	0	0	0	0	6,223	6,223	6,018	-204	
Activity Total		0	0	0	0	62,983	62,983	61,106	-1,873	
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	A	0	0	0	0	20,498	20,498	20,553	55	
EC Estimates - Cost	A	0	0	0	0	15,131	15,131	15,185	53	
PM Project Management	A	0	0	0	0	14,705	14,705	14,645	-60	
QC Quality Control	A	0	0	0	0	13,684	13,684	13,513	-171	
GX Groundwater Extraction Desig	A	0	0	0	0	24,469	24,469	23,907	-562	
GT Groundwater Treatment Design	A	0	0	0	0	84,016	84,016	82,358	-1,657	
MG Meetings (External)	A	0	0	0	0	7,420	7,420	7,397	-22	
ML Manuals - Operations and Mai	A	0	0	0	0	18,833	18,833	18,865	31	
IT Insitu Treatment Design	A	0	0	0	0	43,925	43,925	42,863	-1,061	
SL Construction Schedule Develo	A	0	0	0	0	25,740	25,740	25,836	96	
Activity Total		0	0	0	0	268,421	268,421	265,122	-3,298	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	0	6,173	6,173	6,240	66	
Activity Total		0	0	0	0	6,173	6,173	6,240	66	
65602PD										
Preliminary Design										
EC Estimates - Cost	A	0	0	0	0	6,979	6,979	7,041	61	
PM Project Management	A	0	0	0	0	10,286	10,286	10,213	-72	
QC Quality Control	A	0	0	0	0	5,843	5,843	5,851	7	
QS QAPP/SSP/FSP	A	0	0	0	0	16,600	16,600	16,629	29	
HS Health and Safety	A	0	0	0	0	3,643	3,643	3,625	-17	
R7 Report - Predesign	A	0	0	0	0	18,000	18,000	17,989	-10	
H6 Haz Waste Design - Advanced	A	0	0	0	0	46,258	46,258	45,118	-1,140	
H1 Haz Waste Design - Process E	A	0	0	0	0	51,325	51,325	50,635	-690	
MG Meetings (External)	A	0	0	0	0	5,770	5,770	5,763	-7	
C1 Civil Engineering Design - G	A	0	0	0	0	9,709	9,709	9,311	-398	
Activity Total		0	0	0	0	174,413	174,413	172,175	-2,237	

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
65602PP							
Project Planning - RD							
PM Project Management	A 16	633 2,291	0	11,684	13,975	13,961 -14	
PP Project Planning General	A 100	88 3,728	0	0	3,728	2,917 -811	
QC Quality Control	A 100	0 1,539	0	0	1,539	1,879 340	
WP EPA Workplan	A 100	81 9,337	0	0	9,337	10,272 934	
ED Existing Data Review	A 0	0 0	0	2,586	2,586	2,596 9	
Activity Total	54	803 16,896	0	14,270	31,166	31,624 458	
Work Assignment Total	3	803 16,896	0	526,260	543,156	536,267 -6,884	

AUTH. TASKS w/INVOICED FEE	827	17,402					
AUTH. TASKS w/EST. FULL FEE	879	18,639	581,977	600,617	595,852	-4,764	
ALL TASKS w/EST. FULL FEE		18,639	581,977	600,617			0

Projection: (Monthly/Cumulative)						Current Cost Invoiced:			
JUL91	AUG91	SEP91	OCT91	NOV91	DEC91	Direct Labor	Indirects	Equipment	406
14,128	72,923	100,828	60,422	82,242	71,522	88	Base Fee	24	
32,767	105,690	206,518	266,940	349,182	420,704	67	Award Fee	0	
						0	Travel	0	
						0	Laboratory Service	0	
							TOTAL	827	

MASTER PROJECT NO.: GLO65602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- CURRENT	ACTUAL TO DATE	----- TO COMPLETE	ESTIMATED AT COMPLETE	----- BUDGET	AUTHORIZED VARIANCE	WP/WPRR SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	A	0	0	0	64	64	64		
QC Quality Control	A	0	0	0	64	64	64		
MG Meetings (External)	A	0	0	0	140	140	140		
GM Groundwater Monitoring Plan	A	0	0	0	416	416	416		
MS Miscellaneous Support	A	0	0	0	80	80	80		
LS Landfill Cap Support	A	0	0	0	84	84	84		
Activity Total		0	0	0	848	848	848		
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	0	0	0	300	300	300		
EC Estimates - Cost	A	0	0	0	224	224	224		
PM Project Management	A	0	0	0	196	196	196		
QC Quality Control	A	0	0	0	160	160	160		
GX Groundwater Extraction Design	A	0	0	0	328	328	328		
GT Groundwater Treatment Design	A	0	0	0	1,160	1,160	1,160		
MG Meetings (External)	A	0	0	0	100	100	100		
ML Manuals - Operations and Maintenance	A	0	0	0	272	272	272		
IT Insitu Treatment Design	A	0	0	0	584	584	584		
SL Construction Schedule Development	A	0	0	0	382	382	382		
Activity Total		0	0	0	3,706	3,706	3,706		
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	100	100	100		
Activity Total		0	0	0	100	100	100		
65602PD									
Preliminary Design									
EC Estimates - Cost	A	0	0	0	120	120	120		
PM Project Management	A	0	0	0	148	148	148		
QC Quality Control	A	0	0	0	84	84	84		
QS QAPP/SSP/FSP	A	0	0	0	240	240	240		
HS Health and Safety	A	0	0	0	48	48	48		
R7 Report - Predesign	A	0	0	0	264	264	264		
H6 Haz Waste Design - Advanced	A	0	0	0	544	544	544		
H1 Haz Waste Design - Process Engineering	A	0	0	0	638	638	638		
MG Meetings (External)	A	0	0	0	80	80	80		
C1 Civil Engineering Design - Geotechnical	A	0	0	0	60	60	60		
Activity Total		0	0	0	2,226	2,226	2,226		

MASTER PROJECT NO.: GL065602
 STATUS: FINAL SUBMITTAL
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602PP								
Project Planning - RD								
PM Project Management	A 14	9	23	139	162	160	-2	
PP Project Planning General	A 100	0	48	0	48	40	-8	
QC Quality Control	A 100	0	21	0	21	24	3	
WP EPA Workplan	A 100	0	123	0	123	142	19	
ED Existing Data Review	A 0	0	0	40	40	40		
Activity Total	55	9	215	179	394	406	12	
Work Assignment Total	3	9	215	7,059	7,274	7,286	12	

AUTH. TASKS	9	215	7,059	7,274	7,286	12	
ALL TASKS		215	7,059	7,274			0

Projection: (Monthly/Cumulative)

	JUL91	AUG91	SEP91	OCT91	NOV91	DEC91
	202	984	1,039	731	1,013	883
	417	1,401	2,440	3,171	4,184	5,067

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: FIN SUBMITL

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
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 RUN TIME: 10:53
 AS OF: 05/91

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		10/15/91 P		1
Landfill Cap. 60% Design Review	11/01/91		11/01/91 P		2
Landfill Cap. 90% Design Review	02/01/92		02/01/92 P		3
Prefinal/Final Design					
Draft O&M Manual	10/28/91		10/28/91 P		4
Prefinal Design - GWT	11/20/91		11/20/91 P		5
Prefinal Design - ISB	11/27/91		11/27/91 P		6
Final Design - ISB	01/13/92		01/13/92 P		7
Final Design - GWT	01/21/92		01/21/92 P		8
Preliminary Design					
Bioremediation QAPP	07/07/91		07/19/91 P	12	9
Predesign Report - ISB	08/23/91		09/06/91 P	14	10
Predesign Report - GWT	08/30/91		09/15/91 P	16	11
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		12
Submit Final Work Plan	04/17/91		04/17/91 A		13
Submit Revised Final Work Plan	05/23/91		05/23/91 A		14
EPA Approval of Final Work Plan	05/25/91	06/07/91	07/03/91 P	26	15

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 NOTES:

MASTER PROJECT: GL065602
STATUS: FINAL SUBMITTAL
ALLOCATION: \$595.852
AUTHORIZED BUDGET: \$595.852

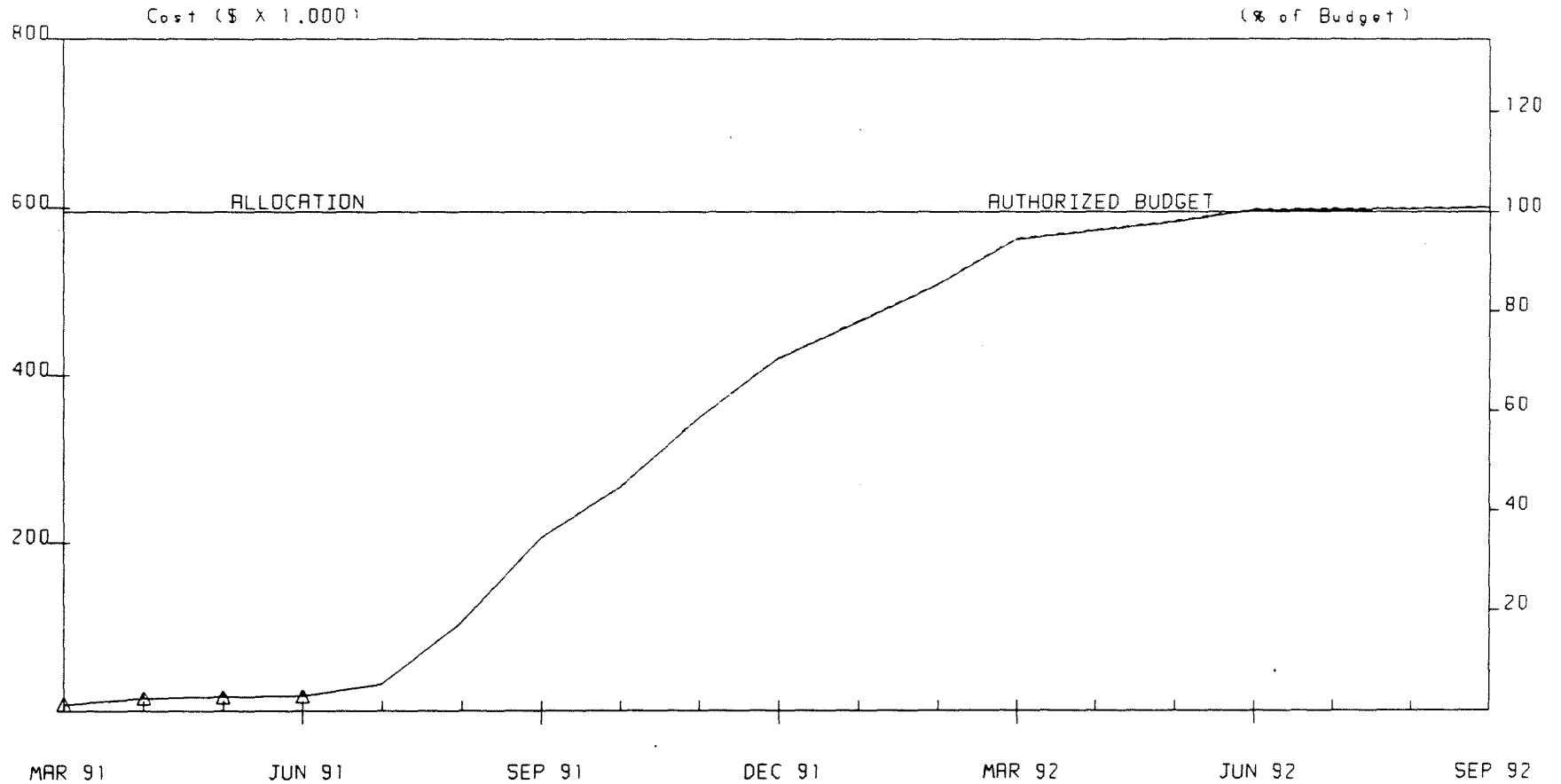
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 07/10/91
RUN TIME: 03:13 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

June 1991



△-△-△-△ ACTUAL
- - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
————— FORECAST (AUTHORIZED TASKS)

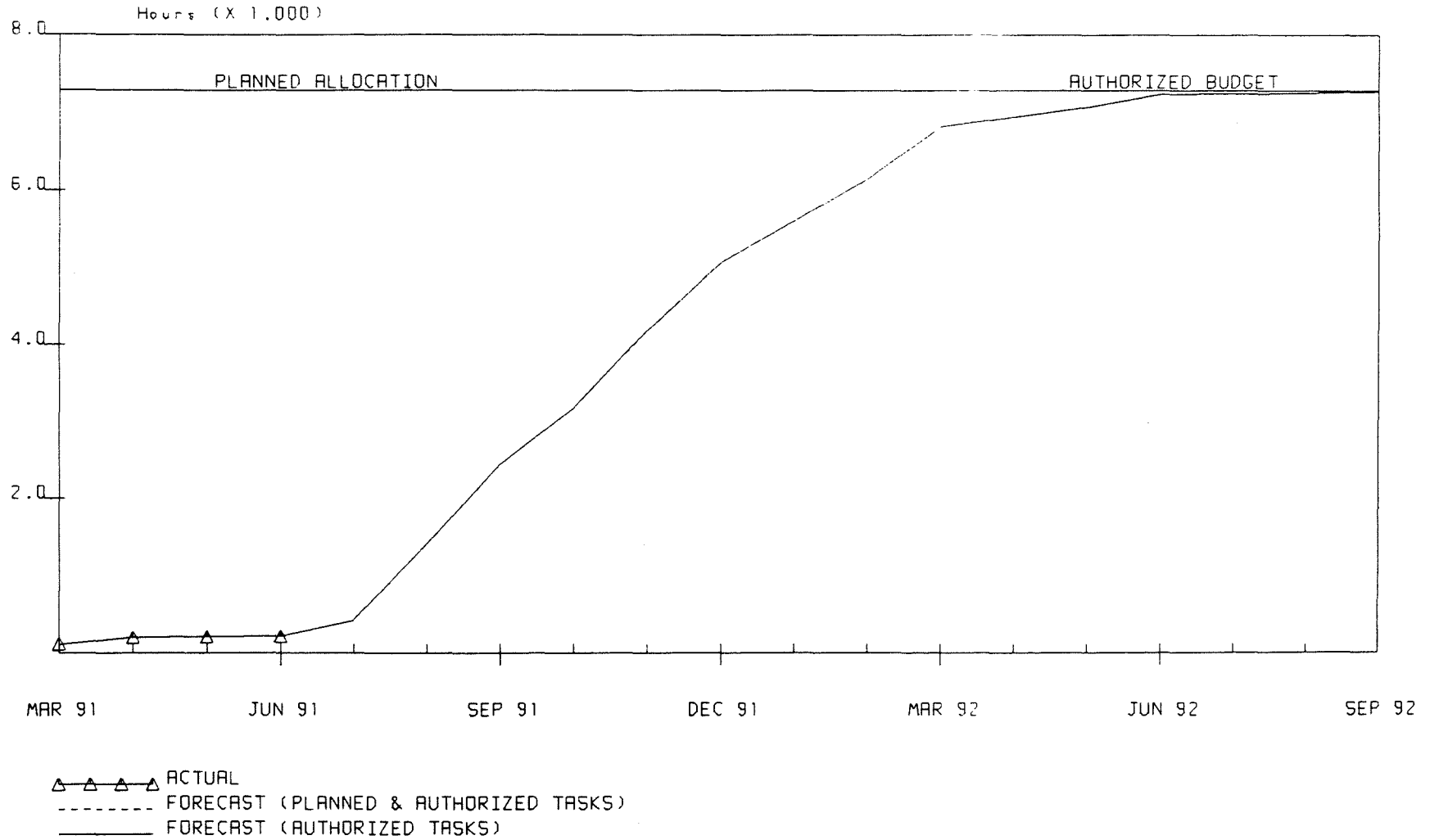
MASTER PROJECT: GLO65602
STATUS: FINAL SUBMITTAL
ALLOCATION: 7.286
AUTHORIZED BUDGET: 7.286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 07/10/91
RUN TIME: 03:13 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

June 1991



~~Benzert~~ / Schmidt

ARCS V TECHNICAL STATUS REPORT
August 1991

RECEIVED
SEP 20 91
BUREAU OF SOLID-HAZARDOUS
WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: August 26, 1991
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan, III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Preliminary design of the groundwater extraction and groundwater treatment systems is proceeding on schedule. Groundwater samples for bioassay testing were collected at the site on August 14 and the initial bioassay testing was performed on August 16 and 17. Preliminary results of the bioassay testing indicate that the groundwater samples were not acutely toxic to test organisms. Groundwater samples for bench-scale testing of iron removal were collected and bench-scale testing commenced on August 15. A QAPP for the bench-scale study of in situ biotreatment was prepared and submitted to the EPA on August 15. A WPRR was submitted on August 30 that outlined the increased scope and budget for the in situ biotreatment bench-scale testing.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

The in situ biotreatment bench-scale test SOW was modified from that described in the Work Plan. The proposed test plan will provide additional information to estimate contaminant removal efficiency and to estimate the relative contributions of air stripping and biodegradation. Two submittals must be approved prior to commencing the testing, including a WPRR describing the scope and budget changes, and an equipment rental request.

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 09/10/91
 RUN TIME: 10:52 AM
 AS OF: 08/91

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
Activity Total		16	22,706 31,337	0 168,333	199,670	172,175 -27,496	204,210
65602PP							
Project Planning - RD							
PM Project Management	A	26	258 3,401	0 9,598	12,999	13,961 961	13,983
PP Project Planning General	A	100	7 3,736	0 0	3,736	2,917 -818	3,727
QC Quality Control	A	100	0 1,539	0 0	1,539	1,879 340	1,539
WP EPA Workplan	A	100	0 9,337	0 0	9,337	10,272 934	9,337
ZZ General	A	100	307 307	0 0	0 307	-307	
ED Existing Data Review	A	0	0 0	0 0	0	2,596 2,595	
Activity Total		66	573 18,320	0 9,598	27,918	31,624 3,705	28,586
Work Assignment Total		10	26,093 53,514	0 504,619	558,133	536,267 -21,865	561,644

AUTH. TASKS w/INVOICED FEE	27,365	55,608					
AUTH. TASKS w/EST. FULL FEE	29,099	59,482		557,662	617,144	595,852	-21,292
ALL TASKS w/EST. FULL FEE		59,482		557,662	617,144		620,951

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

SEP91	OCT91	NOV91	DEC91	JAN92	FEB92
102,192	77,055	47,297	40,061	66,300	85,326
161,674	238,729	286,026	326,087	392,387	477,713

Direct Labor	8,839	Indirects	14,850
Equipment	0	Base Fee	783
ODC	2,395	Award Fee	489
Subcontracts	0	Travel	9
Laboratory Service	0	TOTAL	27,365

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 09/10/91
 RUN TIME: 10:52 AM
 AS OF: 08/91

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL ----- CURRENT	----- TO DATE -----	----- ESTIMATED ----- TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	A	2	1	1	64	65	64	-1	64
QC Quality Control	A	0	0	0	64	64	64		64
MG Meetings (External)	A	0	0	0	140	140	140		140
GM Groundwater Monitoring Plan	A	0	0	0	416	416	416		416
MS Miscellaneous Support	A	0	0	0	80	80	80		80
LS Landfill Cap Support	A	100	0	15	0	15	84	69	31
Activity Total		2	1	16	764	780	848	68	795
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	0	0	0	300	300	300		300
EC Estimates - Cost	A	0	0	0	224	224	224		224
PM Project Management	A	0	0	0	196	196	196		196
QC Quality Control	A	0	0	0	160	160	160		160
GX Groundwater Extraction Desig	A	12	44	44	328	372	328	-44	328
GT Groundwater Treatment Design	A	0	0	0	1,160	1,160	1,160		1,160
MG Meetings (External)	A	0	0	0	100	100	100		100
ML Manuals - Operations and Mai	A	0	0	0	272	272	272		272
IT Insitu Treatment Design	A	0	0	0	584	584	584		584
SL Construction Schedule Develo	A	0	0	0	382	382	382		382
Activity Total		1	44	44	3,706	3,750	3,706	-44	3,706
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	100	100	100		100
Activity Total		0	0	0	100	100	100		100
65602PD									
Preliminary Design									
EC Estimates - Cost	A	0	0	0	120	120	120		120
PM Project Management	A	35	9	46	87	133	148	15	148
QC Quality Control	A	23	21	24	81	105	84	-21	84
QS QAPP/SSP/FSP	A	75	112	157	52	209	240	31	240
HS Health and Safety	A	6	1	3	46	49	48	-1	48
R7 Report - Predesign	A	0	0	0	264	264	264		264
H6 Haz Waste Design - Advanced	A	3	21	21	802	823	544	-279	826
H1 Haz Waste Design - Process E	A	35	167	213	396	609	638	29	638
MG Meetings (External)	A	0	0	0	80	80	80		80
C1 Civil Engineering Design - G	A	0	0	0	60	60	60		60
ZZ General	A	100	5	5	0	5		-5	
Activity Total		19	336	469	1,988	2,457	2,226	-231	2,508

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 142
 RUN DATE: 09/10/91
 RUN TIME: 10:52 AM
 AS OF: 08/91

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602PP									
Project Planning - RD									
PM Project Management	A	23	2	34	112	146	160	14	160
PP Project Planning General	A	100	0	48	0	48	40	-8	48
QC Quality Control	A	100	0	21	0	21	24	3	21
WP EPA Workplan	A	100	0	123	0	123	142	19	123
ZZ General	A	100	4	4	0	4		-4	
ED Existing Data Review	A	0	0	0	0	0	40	40	
Activity Total		67	6	230	112	342	406	64	352
Work Assignment Total		10	387	759	6,670	7,429	7,286	-143	7,461

AUTH. TASKS	387	759	6,670	7,429	7,286	-143	
ALL TASKS		759	6,670	7,429			7,461

Projection: (Monthly/Cumulative)

SEP91	OCT91	NOV91	DEC91	JAN92	FEB92
1,236	860	416	473	834	1,109
1,995	2,855	3,271	3,744	4,578	5,687

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 09/03/91
 RUN TIME: 12:34
 AS OF: 07/91

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
Landfill Cap, 60% Design Review	11/01/91		11/01/91 P		1
GW Monitoring Plan	10/15/91		11/22/91 P	30+	2
Landfill Cap, 90% Design Review	02/01/92		02/01/92 P		3
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		11/20/91 P		4
Prefinal Design - ISB	11/27/91		11/27/91 P		5
Draft O&M Manual	10/28/91		02/26/92 P	30+	6
Final Design - GWT	01/21/92		04/24/92 P	30+	7
Final Design - ISB	01/13/92		06/04/92 P	30+	8
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	9
Pre-design Report - GWT	08/30/91		10/11/91 P	30+	10
Pre-design Report - ISB	08/23/91		11/08/91 P	30+	11
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		12
Submit Final Work Plan	04/17/91		04/17/91 A		13
Submit Revised Final Work Plan	05/23/91		05/23/91 A		14
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	15

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NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$595.852
AUTHORIZED BUDGET: \$595.852

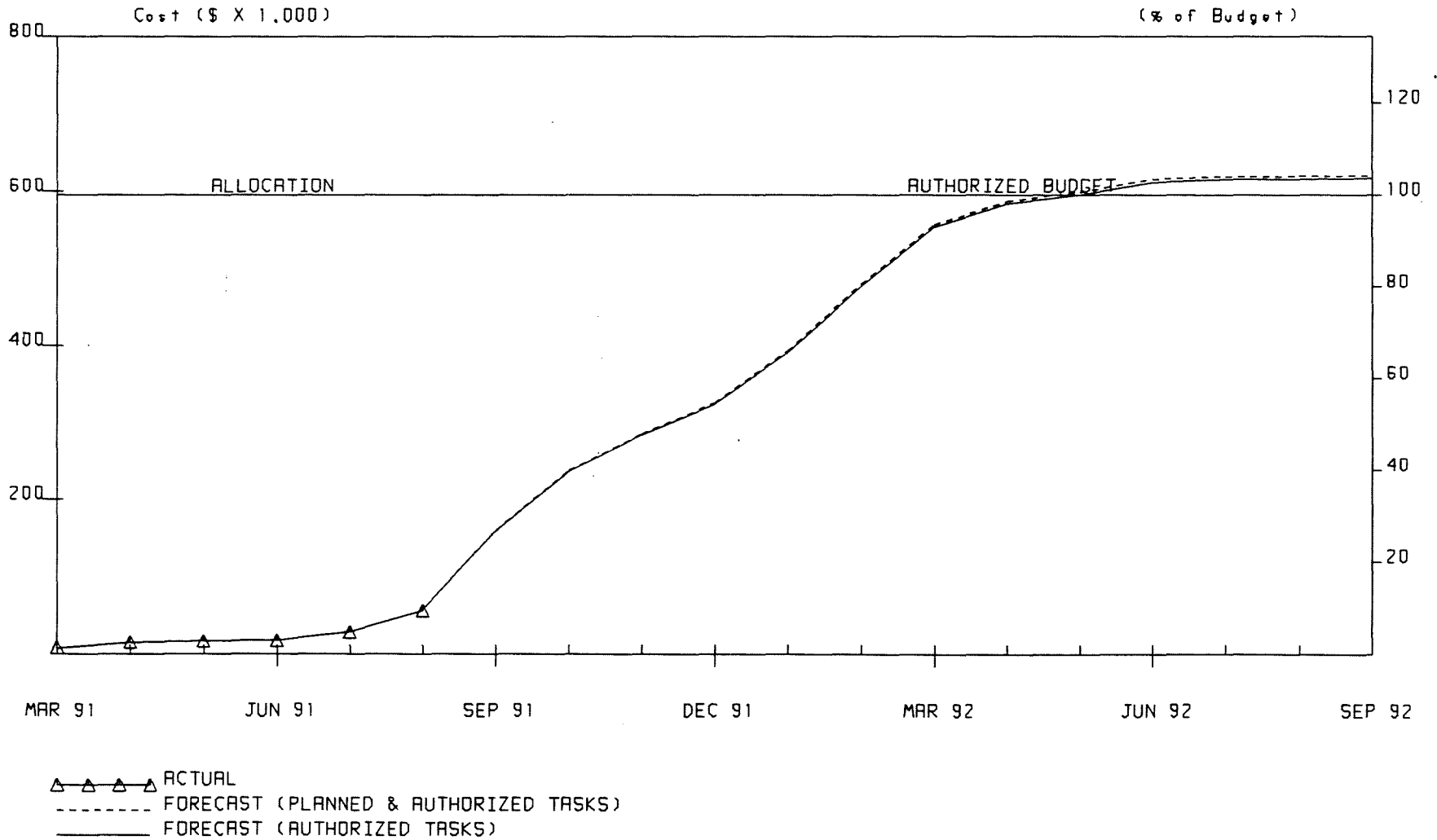
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 09/10/91
RUN TIME: 01:22 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

August 1991



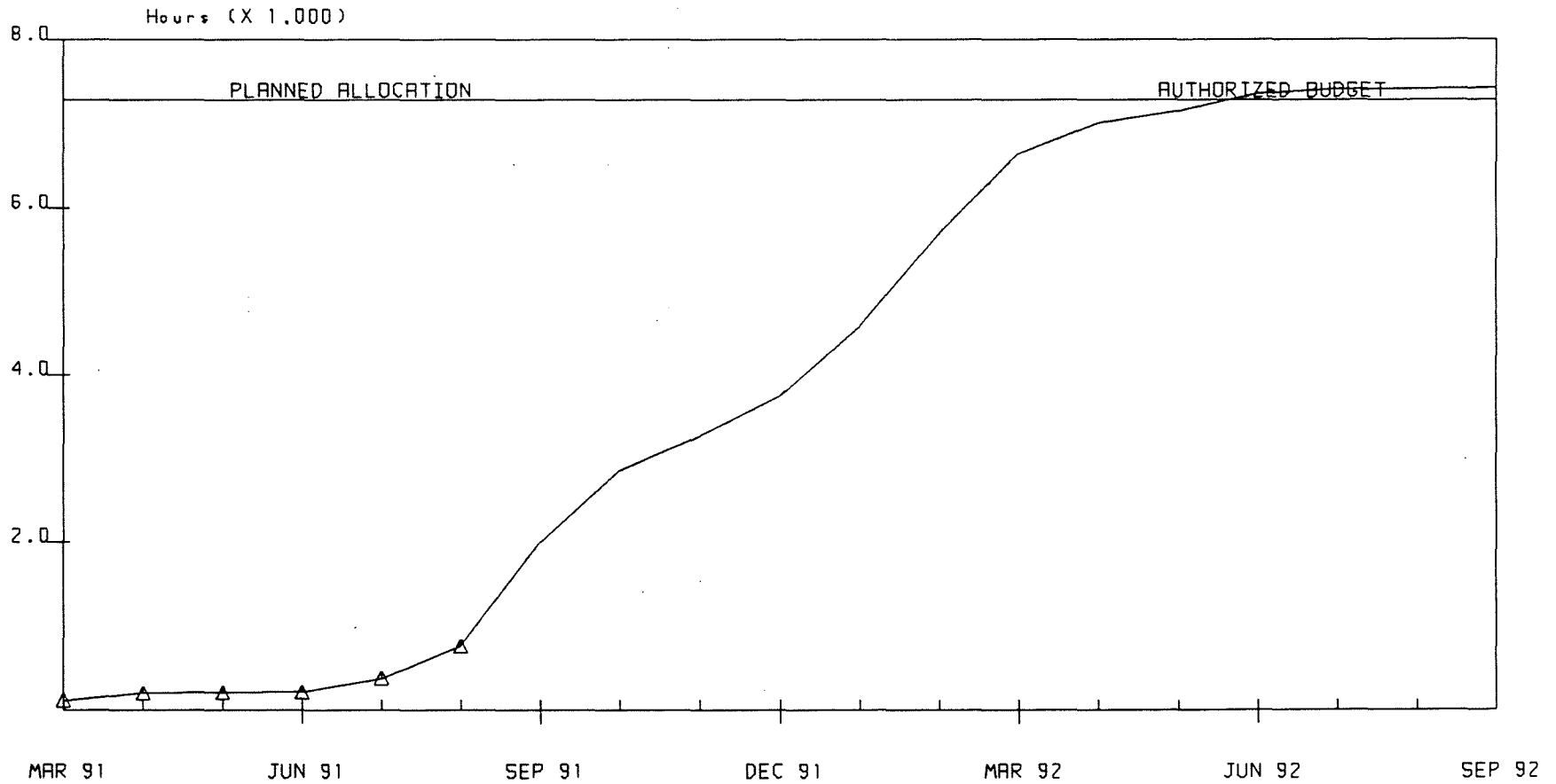
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 7.286
AUTHORIZED BUDGET: 7.286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 09/10/91
RUN TIME: 01:22 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

August 1991



△-△-△-△ ACTUAL
----- FORECAST (PLANNED & AUTHORIZED TASKS)
_____ FORECAST (AUTHORIZED TASKS)

ARCS V TECHNICAL STATUS REPORT
September 1991

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BUREAU OF SOLID-HAZARDOUS
WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: September 26, 1991
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan, III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Preliminary design of the groundwater extraction and treatment system is proceeding on schedule. Approval of the QAPP for bench-scale testing of in situ biotreatment was received on September 6. Soil samples were collected on September 11 to initiate testing of the laboratory equipment to be used in the treatability study. Submitted WPRR No. 2 on September 17 that described the increased scope and budget for the landfill cap design. The SM, RTL, and principal project engineers met with the EPA and WDNR in Milwaukee on September 24 to discuss alternatives to the groundwater extraction system and dredging issues associated with the cap design.

2. Problems Resolved

The in situ bench-scale treatability test QAPP was approved. During the meeting on September 24, it was agreed that design of the groundwater extraction and treatment system and the landfill cap should proceed as planned unless otherwise notified.

3. Problem Areas and Recommended Solutions

Several issues related to the use of dredgings from the Black River remain unresolved and, if not resolved within the next reporting period, could affect the schedule and cost to perform the cap design. Currently, the WDNR has stated a strong interest in using the dredgings for cap material. Whether the dredged materials are suitable for use, who will design the dredging activity, when it will be done, and if it will be done, however, remain in question. Our current scope of work and schedule requires the cap design to be complete by the spring of '92. Based on the September 24 meeting, we are proceeding with

cap design under the assumption that if dredged materials are suitable for use then they will be stockpiled and dewatered adjacent to the site prior to cap construction.

WPRR No. 1 has not been approved. While some preliminary aspects of the treatability testing have been authorized, the additional budget requested in WPRR No. 1 will be required to complete the test.

WPRR No. 2 has not been approved. Cap design cannot begin until approval.

4. Deliverables Submitted

WPRR No. 2 was submitted on September 17.

5. Activities Planned Next Reporting Period

Samples for the bench-scale treatability test are planned to be collected on October 3. Analysis of the treatability test will be completed following approval of WPRR No. 1.

Landfill cap preliminary design will commence pending approval of WPRR No. 2. A site topographic and property boundary survey will be conducted immediately following the approval.

The preliminary design report for the groundwater extraction and treatment system will be submitted for review by the EPA and WDNR.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

On September 11, two CH2M HILL staff members travelled to the Onalaska Landfill site to collect soil samples for preliminary treatability testing.

9. Laboratories

Preliminary testing of in situ treatment was conducted at CH2M HILL's Bioassay Laboratory. This work consisted of testing the analytical equipment performance using relatively small sample volumes.

10. Project Performance

The project is proceeding on schedule.

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 RUN DATE: 10/10/91
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 AS OF: 09/91

TOTAL COST

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR				
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED	
65602DS										
Design Support Activities										
PM Project Management	A	2	0	67	0	4,337	4,404	4,948	544	5,003
QC Quality Control	A	0	0	0	0	4,100	4,100	5,107	1,006	5,012
MG Meetings (External)	A	0	0	0	0	10,193	10,193	10,221	28	10,246
GM Groundwater Monitoring Plan	A	0	0	0	0	29,355	29,355	29,355		29,360
MS Miscellaneous Support	A	0	0	0	0	5,577	5,577	5,457	-120	5,577
LS Landfill Cap Support	A	100	0	1,059	0	0	1,059	6,018	4,959	2,149
Activity Total		2	0	1,126	0	53,562	54,688	61,106	6,417	57,347
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	A	0	0	0	0	20,495	20,495	20,553	58	20,498
EC Estimates - Cost	A	0	0	0	0	15,128	15,128	15,185	56	15,131
PM Project Management	A	0	0	0	0	14,701	14,701	14,645	-56	14,705
QC Quality Control	A	0	0	0	0	13,684	13,684	13,513	-171	13,684
ZZ General	A	0	-7	0	0	0	0			7
GX Groundwater Extraction Desig	A	2	-2,350	373	0	23,958	24,331	23,907	-424	26,682
GT Groundwater Treatment Design	A	0	0	0	0	82,363	82,363	82,358	-4	82,367
MG Meetings (External)	A	0	0	0	0	7,421	7,421	7,397	-23	7,421
ML Manuals - Operations and Mai	A	0	0	0	0	18,831	18,831	18,865	33	18,833
IT Insitu Treatment Design	A	0	0	0	0	42,977	42,977	42,863	-113	42,980
SL Construction Schedule Develo	A	0	0	0	0	25,737	25,737	25,836	99	25,740
Activity Total		0	-2,357	373	0	265,295	265,668	265,122	-545	268,048
65602LC										
LANDFILL CAP DESIGN										
WP EPA Workplan	P	0	0	0	0	6,927	6,927			6,629
QC Quality Control	P	0	0	0	0	15,034	15,034			15,034
PM Project Management	P	0	0	0	0	14,852	14,852			14,852
PP Project Planning General	P	0	0	0	0	2,592	2,592			2,549
ED Existing Data Review	P	0	0	0	0	2,306	2,306			2,306
C1 Civil Engineering Design - G	P	0	0	0	0	18,498	18,498			18,498
G1 Predesign - Geotechnical	P	0	0	0	0	7,126	7,126			7,126
P1 Plans and Specifications - P	P	0	0	0	0	17,257	17,257			17,257
R8 Report - 1st Draft Predesign	P	0	0	0	0	6,971	6,971			6,971
C3 Civil Eng - Intermediate Des	P	0	0	0	0	4,444	4,444			4,444
G3 Geotechnical Eng - Intermedi	P	0	0	0	0	5,162	5,162			5,162
P2 Plans and Specifications - I	P	0	0	0	0	13,714	13,714			13,714
C4 Civil Eng - Final Design	P	0	0	0	0	4,091	4,091			4,091
G4 Geotechnical Eng - Final Des	P	0	0	0	0	4,041	4,041			4,041
P3 Plans and Specifications - F	P	0	0	0	0	18,857	18,857			18,857
EC Estimates - Cost	P	0	0	0	0	3,048	3,048			3,048
SL Construction Schedule Develo	P	0	0	0	0	5,063	5,063			5,063
QS QAPP/SSP/FSP	P	0	0	0	0	7,978	7,978			7,978

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 10/10/91
 RUN TIME: 12:46 PM
 AS OF: 09/91

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR				
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED	
ML Manuals - Operations and Mai	P	0	0	0	0	6,549	6,549		6,549	
HS Health and Safety	P	0	0	0	0	4,097	4,097		4,097	
MG Meetings (External)	P	0	0	0	0	3,456	3,456		3,456	
MS Miscellaneous Support	P	0	0	0	0	7,860	7,860		7,862	
Activity Total		0	0	0	0	179,923	179,923		179,584	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	0	8,791	8,791	6,240	-2,551	8,791
Activity Total		0	0	0	0	8,791	8,791	6,240	-2,551	8,791
65602PD										
Preliminary Design										
EC Estimates - Cost	A	0	0	0	0	1,048	1,048	7,041	5,992	6,708
PM Project Management	A	66	3,158	6,598	0	3,382	9,980	10,213	233	10,745
QC Quality Control	A	72	2,001	3,907	0	1,531	5,438	5,851	412	6,132
QS QAPP/SSP/FSP	A	73	558	11,282	0	4,208	15,490	16,629	1,139	16,079
HS Health and Safety	A	8	0	189	0	2,294	2,483	3,625	1,141	3,578
R7 Report - Pre-design	A	2	200	200	0	8,994	9,194	17,989	8,795	17,470
H6 Haz Waste Design - Advanced	A	16	10,698	11,778	0	62,394	74,172	45,118	-29,054	77,412
H1 Haz Waste Design - Process E	A	94	16,190	29,882	0	1,897	31,779	50,635	18,855	46,462
MG Meetings (External)	A	87	2,601	2,601	0	373	2,974	5,763	2,789	5,789
C1 Civil Engineering Design - G	A	0	0	0	0	0	0	9,311	9,310	9,702
ZZ General	A	100	3,346	3,651	0	0	3,651		-3,651	305
Activity Total		45	38,752	70,089	0	86,121	156,210	172,175	15,961	200,382
65602PP										
Project Planning - RD										
PM Project Management	A	58	7,979	11,380	0	8,412	19,792	13,961	-5,831	13,654
PP Project Planning General	A	100	133	3,869	0	0	3,869	2,917	-952	3,735
QC Quality Control	A	100	72	1,611	0	0	1,611	1,879	268	1,539
WP EPA Workplan	A	100	0	9,337	0	0	9,337	10,272	934	9,337
ZZ General	A	100	-292	15	0	0	15		-15	308
ED Existing Data Review	A	0	0	0	0	0	0	2,596	2,595	
Activity Total		76	7,893	26,213	0	8,412	34,625	31,624	-3,001	28,573
Work Assignment Total		14	44,287	97,801	0	602,104	699,905	536,267	16,281	742,725

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 595,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	45,536	101,144					
AUTH. TASKS w/EST. FULL FEE	49,664	109,145			466,848	575,993	595,852 19,858
PLANNED TASKS w/EST. FULL FEE					198,042	198,042	
ALL TASKS w/EST. FULL FEE		109,145			664,890	774,035	820,410

Projection: (Monthly/Cumulative)

OCT91	NOV91	DEC91	JAN92	FEB92	MAR92
130,767	76,841	74,894	128,012	99,128	78,644
239,912	316,753	391,647	519,659	618,787	697,431
				<Overrun>	

Current Cost Invoiced:

Direct Labor	14,103	Indirects	23,694
Equipment	0	Base Fee	1,249
ODC	3,152	Award Fee	0
Subcontracts	289	Travel	451
Laboratory Service	2,598	TOTAL	45,536

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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 Onalaska Municipal Landfill, WI

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ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	A	2	0	1	55 56	64 8 64
QC Quality Control	A	0	0	0	52 52	64 12 64
MG Meetings (External)	A	0	0	0	140 140	140 140
GM Groundwater Monitoring Plan	A	0	0	0	416 416	416 416
MS Miscellaneous Support	A	0	0	0	80 80	80 80
LS Landfill Cap Support	A	100	0	15	0 15	84 69 31
Activity Total		2	0	16	743 759	848 89 795
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	A	0	0	0	300 300	300 300
EC Estimates - Cost	A	0	0	0	224 224	224 224
PM Project Management	A	0	0	0	196 196	196 196
QC Quality Control	A	0	0	0	160 160	160 160
GX Groundwater Extraction Desig	A	0	-44	0	328 328	328 372
GT Groundwater Treatment Design	A	0	0	0	1,160 1,160	1,160 1,160
MG Meetings (External)	A	0	0	0	100 100	100 100
ML Manuals - Operations and Mai	A	0	0	0	272 272	272 272
IT Insitu Treatment Design	A	0	0	0	584 584	584 584
SL Construction Schedule Develo	A	0	0	0	382 382	382 382
Activity Total		0	-44	0	3,706 3,706	3,706 3,750
65602LC						
LANDFILL CAP DESIGN						
WP EPA Workplan	P	0	0	0	88 88	88 88
QC Quality Control	P	0	0	0	156 156	156 156
PM Project Management	P	0	0	0	178 178	178 178
PP Project Planning General	P	0	0	0	30 30	30 30
ED Existing Data Review	P	0	0	0	36 36	36 36
C1 Civil Engineering Design - G	P	0	0	0	96 96	96 96
G1 Predesign - Geotechnical	P	0	0	0	102 102	102 102
P1 Plans and Specifications - P	P	0	0	0	210 210	210 210
R8 Report - 1st Draft Predesign	P	0	0	0	84 84	84 84
C3 Civil Eng - Intermediate Des	P	0	0	0	72 72	72 72
G3 Geotechnical Eng - Intermedi	P	0	0	0	72 72	72 72
P2 Plans and Specifications - I	P	0	0	0	192 192	192 192
C4 Civil Eng - Final Design	P	0	0	0	56 56	56 56
G4 Geotechnical Eng - Final Des	P	0	0	0	56 56	56 56
P3 Plans and Specifications - F	P	0	0	0	240 240	240 240
EC Estimates - Cost	P	0	0	0	48 48	48 48
SL Construction Schedule Develo	P	0	0	0	74 74	74 74
QS QAPP/SSP/FSP	P	0	0	0	108 108	108 108
ML Manuals - Operations and Mai	P	0	0	0	88 88	88 88

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- CURRENT	----- TO DATE	----- TO COMPLETE	----- AT COMPLETE	----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
HS Health and Safety	P	0	0	0	40	40			40
MG Meetings (External)	P	0	0	0	48	48			48
MS Miscellaneous Support	P	0	0	0	96	96			96
Activity Total		0	0	0	2,170	2,170			2,170
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	140	140	100	-40	140
Activity Total		0	0	0	140	140	100	-40	140
65602PD									
Preliminary Design									
EC Estimates - Cost	A	0	0	0	16	16	120	104	120
PM Project Management	A	67	47	93	46	139	148	9	148
QC Quality Control	A	72	27	51	20	71	84	13	84
QS QAPP/SSP/FSP	A	68	0	157	75	232	240	8	240
HS Health and Safety	A	8	0	3	34	37	48	11	48
R7 Report - Predesign	A	2	3	3	132	135	264	129	264
H6 Haz Waste Design - Advanced	A	32	235	256	553	809	544	-265	826
H1 Haz Waste Design - Process E	A	94	229	442	29	471	638	167	589
MG Meetings (External)	A	91	39	39	4	43	80	37	80
C1 Civil Engineering Design - G	A	0	0	0	0	0	60	60	60
ZZ General	A	100	65	70	0	70		-70	5
Activity Total		55	645	1,114	909	2,023	2,226	203	2,464
65602PP									
Project Planning - RD									
PM Project Management	A	61	117	151	98	249	160	-89	156
PP Project Planning General	A	100	2	50	0	50	40	-10	48
QC Quality Control	A	100	1	22	0	22	24	2	21
WP EPA Workplan	A	100	0	123	0	123	142	19	123
ZZ General	A	0	-4	0	0	0			4
ED Existing Data Review	A	0	0	0	0	0	40	40	
Activity Total		78	116	346	98	444	406	-38	352
Work Assignment Total		16	717	1,476	7,766	9,242	7,286	214	9,671

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,286

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS	717	1,476	5,596	7,072	7,286	214	
PLANNED TASKS			2,170	2,170			
ALL TASKS		1,476	7,766	9,242			9,671

Projection: (Monthly/Cumulative)

OCT91	NOV91	DEC91	JAN92	FEB92	MAR92
1,392	736	907	1,562	1,254	985
2,868	3,604	4,511	6,073	7,327	8,312

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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MILESTONE	----- WORKPLAN -----		---- DELIVERY ----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
Landfill Cap, 60% Design Review	11/01/91		11/01/91 P		1
GW Monitoring Plan	10/15/91		12/05/91 P	30+	2
Landfill Cap, 90% Design Review	02/01/92		02/01/92 P		3
Prefinal/Final Design					
Draft O&M Manual	10/28/91		02/26/92 P	30+	4
Prefinal Design - GWT	11/20/91		03/11/92 P	30+	5
Final Design - GWT	01/21/92		05/06/92 P	30+	6
Prefinal Design - ISB	11/27/91		06/03/92 P	30+	7
Final Design - ISB	01/13/92		06/24/92 P	30+	8
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	9
Predesign Report - GWT	08/30/91		10/18/91 P	30+	10
Predesign Report - ISB	08/23/91		11/15/91 P	30+	11
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		12
Submit Final Work Plan	04/17/91		04/17/91 A		13
Submit Revised Final Work Plan	05/23/91		05/23/91 A		14
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	15

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 NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$595.852
AUTHORIZED BUDGET: \$595.852

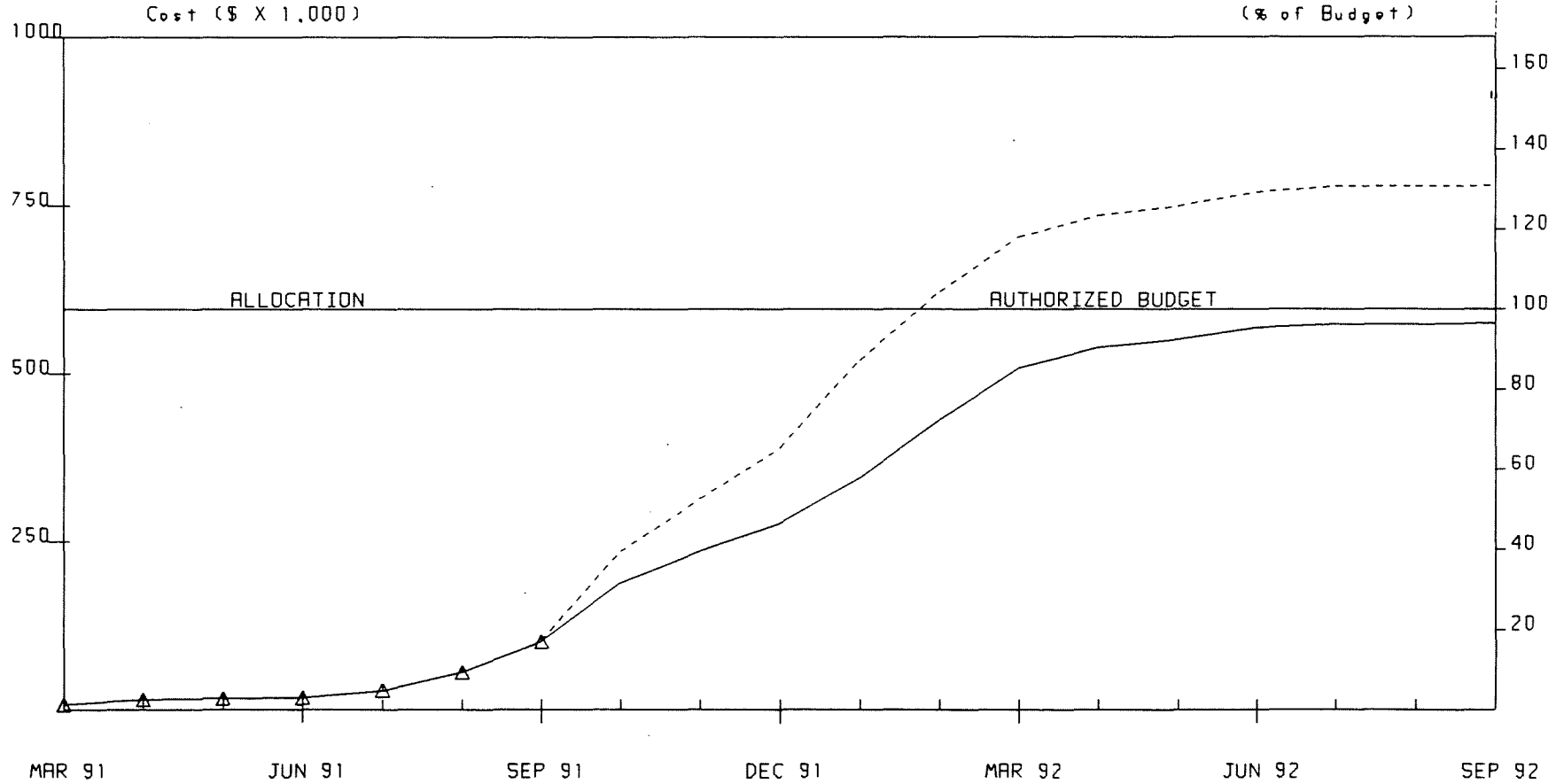
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NLS

REPORT: PRJ091
RUN DATE: 10/09/91
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ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

September 1991



△-△-△-△ ACTUAL
- - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
————— FORECAST (AUTHORIZED TASKS)

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST

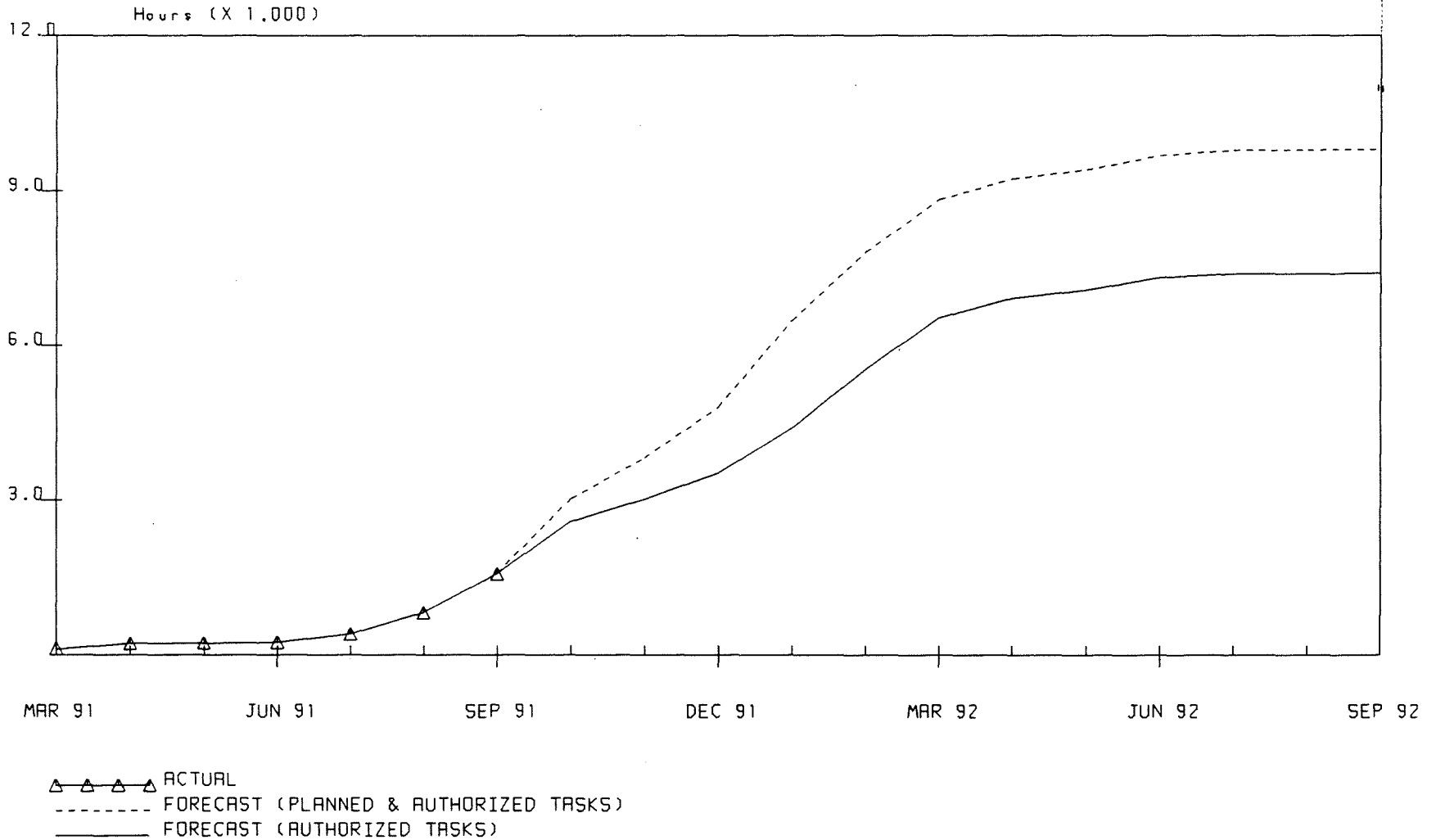
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 10/09/91
RUN TIME: 02:21 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL HOURS

September 1991





SFUL
Schmidt
Kozol
RECEIVED
NOV 20 1991
BUREAU OF SOLID WASTE MANAGEMENT

ARCS V TECHNICAL STATUS REPORT
October 1991

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: October 31, 1991
COPIES: RPM: Kevin Adler, U.S. EPA Region 5
PM: John Fleissner, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Preliminary design of the groundwater extraction and treatment system was completed and a preliminary design report was submitted on October 18 for Agency review. Several issues were identified that require the attention of the EPA and WDNR to complete the final design. WPRR No. 2 was resubmitted for approval following telephone discussions with the WAM and PO regarding proposed personnel requirements. WPRR No. 1 was approved on September 30 and the WAF was received on October 4. In situ biotreatability bench-scale testing was initiated on the 17th of October. The WAM and WDNR Contact visited the CH2M HILL laboratory in New Berlin, Wisconsin (near Milwaukee) on October 29 to observe the bench-testing activity.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

WPRR No. 2 has not been approved. The necessary corrections have been identified and approval appears imminent, however.

The LOE hours and total dollar amount required to conduct the bench scale testing has exceeded the projections (but not the subtask budget) for this month. As a result, the subtask (PD.H6) could overrun the current budget. The SM is currently reviewing the projected staff needs for November and December to determine if the projected staff needs are necessary. The projected overrun appears to be due to the level of contamination in the samples being significantly higher than anticipated, and the difficulties

associated with processing samples containing such a high concentration of non-aqueous phase contaminants.

4. Deliverables Submitted

The Groundwater Extraction and Treatment Predesign Report was submitted to the EPA on October 18.

5. Activities Planned Next Reporting Period

Landfill cap preliminary design will commence following approval of WPRR No. 2. A site topographic and property boundary survey will be conducted immediately following approval.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Travel expenses reported this month were incurred in September for soil treatability test sample collection on September 11, as noted in the September Tech Status Report.

On October 29, the CH2M HILL SM and assistant SM traveled to the CH2M HILL laboratory to discuss the bench-scale test progress with the WAM and WDNR Contact.

9. Laboratories

Bench-scale testing of in situ treatment continued at CH2M HILL's Bioassay Laboratory. Bioassay testing of contaminated groundwater was also performed at CH2M HILL's Bioassay Laboratory

10. Project Performance

The project is proceeding on schedule per the most recent approved WPRR. The bench-scale testing has proceeded on schedule in spite of difficulties posed by the high concentrations of non-aqueous phase contaminants in the samples.

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

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ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	A 3	67 133	0 4,096	4,229	4,948 718	4,982
QC Quality Control	A 0	0 0	0 5,075	5,075	5,107 31	5,113
MG Meetings (External)	A 0	0 0	0 8,719	8,719	10,221 1,502	10,243
GM Groundwater Monitoring Plan	A 0	0 0	0 22,897	22,897	29,355 6,458	29,355
MS Miscellaneous Support	A 0	0 0	0 4,542	4,542	5,457 914	5,477
LS Landfill Cap Support	C 100	0 1,059	0 0	1,059	1,845 785	1,060
Activity Total	3	67 1,193	0 45,329	46,522	56,933 10,408	56,230
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	A 0	0 0	0 20,495	20,495	20,553 58	20,495
EC Estimates - Cost	A 0	0 0	0 13,033	13,033	15,185 2,151	15,129
PM Project Management	A 0	0 0	0 14,701	14,701	14,645 -56	14,701
QC Quality Control	A 0	0 0	0 13,684	13,684	13,513 -171	13,684
GX Groundwater Extraction Desig	A 2	0 373	0 23,958	24,331	23,907 -424	24,332
GT Groundwater Treatment Design	A 0	0 0	0 82,363	82,363	82,358 -4	82,363
MG Meetings (External)	A 0	0 0	0 6,407	6,407	7,397 990	7,421
ML Manuals - Operations and Mai	A 0	0 0	0 18,831	18,831	18,865 33	18,831
IT Insitu Treatment Design	A 0	0 0	0 42,977	42,977	42,863 -113	42,977
SL Construction Schedule Develo	A 0	0 0	0 25,737	25,737	25,836 99	25,737
Activity Total	0	0 373	0 262,186	262,559	265,122 2,563	265,670
65602LC						
LANDFILL CAP DESIGN						
WP EPA Workplan	P 0	0 0	0 6,927	6,927		6,927
QC Quality Control	P 0	0 0	0 15,034	15,034		15,034
PM Project Management	P 0	0 0	0 14,852	14,852		14,852
PP Project Planning General	P 0	0 0	0 2,592	2,592		2,592
ED Existing Data Review	P 0	0 0	0 2,306	2,306		2,306
C1 Civil Engineering Design - G	P 0	0 0	0 15,822	15,822		15,822
G1 Predesign - Geotechnical	P 0	0 0	0 7,126	7,126		7,126
P1 Plans and Specifications - P	P 0	0 0	0 14,988	14,988		14,988
R8 Report - 1st Draft Predesign	P 0	0 0	0 6,971	6,971		6,971
C3 Civil Eng - Intermediate Des	P 0	0 0	0 4,444	4,444		4,444
G3 Geotechnical Eng - Intermedi	P 0	0 0	0 5,162	5,162		5,162
P2 Plans and Specifications - I	P 0	0 0	0 13,714	13,714		13,714
C4 Civil Eng - Final Design	P 0	0 0	0 4,091	4,091		4,091
G4 Geotechnical Eng - Final Des	P 0	0 0	0 4,041	4,041		4,041
P3 Plans and Specifications - F	P 0	0 0	0 18,857	18,857		18,857
EC Estimates - Cost	P 0	0 0	0 3,048	3,048		3,048
SL Construction Schedule Develo	P 0	0 0	0 5,063	5,063		5,063
QS QAPP/SSP/FSP	P 0	0 0	0 7,978	7,978		7,978
ML Manuals - Operations and Mai	P 0	0 0	0 6,549	6,549		6,549

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ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
HS Health and Safety	P	0	0	0	0	4,097	4,097	4,097		
MG Meetings (External)	P	0	0	0	0	3,456	3,456	3,456		
MS Miscellaneous Support	P	0	0	0	0	7,860	7,860	7,860		
Activity Total		0	0	0	0	174,978	174,978	174,978		
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	0	8,791	8,791	6,240	-2,551	8,791
Activity Total		0	0	0	0	8,791	8,791	6,240	-2,551	8,791
65602PD										
Preliminary Design										
EC Estimates - Cost	A	8	290	290	0	3,187	3,477	7,041	3,563	5,211
PM Project Management	A	77	2,367	8,965	0	2,734	11,699	10,213	-1,485	10,173
QC Quality Control	A	100	3,551	7,458	0	0	7,458	5,851	-1,607	6,848
QS QAPP/SSP/FSP	A	100	33	11,315	0	0	11,315	16,629	5,314	11,283
HS Health and Safety	A	100	217	406	0	0	406	3,625	3,218	1,827
R7 Report - Predesign	A	63	11,549	11,749	0	6,882	18,631	17,989	-642	19,465
H6 Haz Waste Design - Advanced	A	56	27,883	39,662	0	30,745	70,407	74,478	4,071	75,997
H1 Haz Waste Design - Process E	A	100	9,968	39,850	0	0	39,850	50,635	10,784	51,203
MG Meetings (External)	A	54	158	2,758	0	2,390	5,148	5,763	614	4,991
C1 Civil Engineering Design - G	A	7	714	714	0	9,708	10,422	9,311	-1,111	9,708
ZZ General	A	100	4,263	7,914	0	0	7,914		-7,913	3,651
Activity Total		70	60,992	131,081	0	55,646	186,727	201,534	14,806	200,357
65602PP										
Project Planning - RD										
PM Project Management	A	71	3,891	15,271	0	6,121	21,392	13,961	-7,431	18,435
PP Project Planning General	A	100	0	3,869	0	0	3,869	2,917	-952	3,868
QC Quality Control	A	100	0	1,611	0	0	1,611	1,879	268	1,610
WP EPA Workplan	A	100	0	9,337	0	0	9,337	10,272	934	9,337
ZZ General	A	100	167	183	0	0	183		-182	15
Activity Total		83	4,058	30,271	0	6,121	36,392	29,029	-7,363	33,265
Work Assignment Total		23	65,117	162,918	0	553,051	715,969	558,858	17,863	739,291

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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 Onalaska Municipal Landfill, WI

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ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	66,867	168,011					
AUTH. TASKS w/EST. FULL FEE	72,342	181,488	417,744	599,232	620,953	21,721	
PLANNED TASKS w/EST. FULL FEE			193,481	193,481			
ALL TASKS w/EST. FULL FEE		181,488	611,225	792,713			817,364

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

NOV91	DEC91	JAN92	FEB92	MAR92	APR92
109,592	107,556	129,464	107,154	79,064	31,930
291,080	398,636	528,100	635,254	714,318	746,248
			<Overrun>		

Direct Labor	19,262	Indirects	32,362
Equipment	0	Base Fee	1,750
ODC	4,159	Award Fee	0
Subcontracts	2,750	Travel	252
Laboratory Service	6,333	TOTAL	66,867

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,461

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
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 Onalaska Municipal Landfill, WI

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ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	A	4	1	2	64	64
QC Quality Control	A	0	0	0	64	62
MG Meetings (External)	A	0	0	0	140	140
GM Groundwater Monitoring Plan	A	0	0	0	416	416
MS Miscellaneous Support	A	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	28	15
Activity Total		3	1	17	792	777
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	A	0	0	0	300	300
EC Estimates - Cost	A	0	0	0	224	224
PM Project Management	A	0	0	0	196	196
QC Quality Control	A	0	0	0	160	160
GX Groundwater Extraction Desig	A	0	0	0	328	328
GT Groundwater Treatment Design	A	0	0	0	1,160	1,160
MG Meetings (External)	A	0	0	0	86	86
ML Manuals - Operations and Mai	A	0	0	0	272	272
IT Insitu Treatment Design	A	0	0	0	584	584
SL Construction Schedule Develo	A	0	0	0	382	382
Activity Total		0	0	0	3,706	3,706
65602LC						
LANDFILL CAP DESIGN						
WP EPA Workplan	P	0	0	0	88	88
QC Quality Control	P	0	0	0	156	156
PM Project Management	P	0	0	0	178	178
PP Project Planning General	P	0	0	0	30	30
ED Existing Data Review	P	0	0	0	36	36
C1 Civil Engineering Design - G	P	0	0	0	232	232
G1 Predesign - Geotechnical	P	0	0	0	102	102
P1 Plans and Specifications - P	P	0	0	0	210	210
R8 Report - 1st Draft Predesign	P	0	0	0	84	84
C3 Civil Eng - Intermediate Des	P	0	0	0	72	72
G3 Geotechnical Eng - Intermedi	P	0	0	0	72	72
P2 Plans and Specifications - I	P	0	0	0	192	192
C4 Civil Eng - Final Design	P	0	0	0	56	56
G4 Geotechnical Eng - Final Des	P	0	0	0	56	56
P3 Plans and Specifications - F	P	0	0	0	240	240
EC Estimates - Cost	P	0	0	0	48	48
SL Construction Schedule Develo	P	0	0	0	74	74
QS QAPP/SSP/FSP	P	0	0	0	108	108
ML Manuals - Operations and Mai	P	0	0	0	88	88

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7,461

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- CURRENT	----- TO DATE	----- ESTIMATED TO COMPLETE	----- AT COMPLETE	----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
HS Health and Safety	P	0	0	0	40	40			40
MG Meetings (External)	P	0	0	0	48	48			48
MS Miscellaneous Support	P	0	0	0	96	96			96
Activity Total		0	0	0	2,306	2,306			2,306
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	140	140	100	-40	140
Activity Total		0	0	0	140	140	100	-40	140
65602PD									
Preliminary Design									
EC Estimates - Cost	A	10	6	6	54	60	120	60	94
PM Project Management	A	76	31	124	40	164	148	-16	145
QC Quality Control	A	100	43	94	0	94	84	-10	87
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	157
HS Health and Safety	A	100	3	6	0	6	48	42	23
R7 Report - Predesign	A	70	184	187	79	266	264	-2	264
H6 Haz Waste Design - Advanced	A	76	388	644	208	852	815	-37	815
H1 Haz Waste Design - Process E	A	100	160	602	0	602	638	36	670
MG Meetings (External)	A	56	2	41	32	73	80	7	71
C1 Civil Engineering Design - G	A	14	10	10	60	70	60	-10	60
ZZ General	A	100	58	128	0	128		-128	70
Activity Total		81	885	1,999	473	2,472	2,497	25	2,456
65602PP									
Project Planning - RD									
PM Project Management	A	75	52	203	68	271	160	-111	227
PP Project Planning General	A	100	0	50	0	50	40	-10	50
QC Quality Control	A	100	0	22	0	22	24	2	22
WP EPA Workplan	A	100	0	123	0	123	142	19	123
ZZ General	A	100	3	3	0	3		-3	
Activity Total		86	55	401	68	469	366	-103	422
Work Assignment Total		25	941	2,417	7,271	9,688	7,461	79	9,807

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 7.461

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	ACTUAL			ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE		

AUTH. TASKS	941	2,417	4,965	7,382	7,461	79
PLANNED TASKS			2,306	2,306		
ALL TASKS		2,417	7,271	9,688		9,807

Projection: (Monthly/Cumulative)

NOV91	DEC91	JAN92	FEB92	MAR92	APR92
1,178	1,240	1,578	1,337	990	385
3,595	4,835	6,413	7,750	8,740	9,125

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

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MILESTONE	----- WORKPLAN -----		---- DELIVERY ----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		12/05/91 P	30+	1
Prefinal/Final Design					
Draft O&M Manual	10/28/91		02/26/92 P	30+	2
Prefinal Design - GWT	11/20/91		03/11/92 P	30+	3
Final Design - GWT	01/21/92		05/06/92 P	30+	4
Prefinal Design - ISB	11/27/91		06/03/92 P	30+	5
Final Design - ISB	01/13/92		06/24/92 P	30+	6
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	7
Predesign Report - GWT	08/30/91		10/18/91 A	30+	8
Predesign Report - ISB	08/23/91		11/15/91 P	30+	9
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		10
Submit Final Work Plan	04/17/91		04/17/91 A		11
Submit Revised Final Work Plan	05/23/91		05/23/91 A		12
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	13

=====
 NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$820.852
AUTHORIZED BUDGET: \$620.953

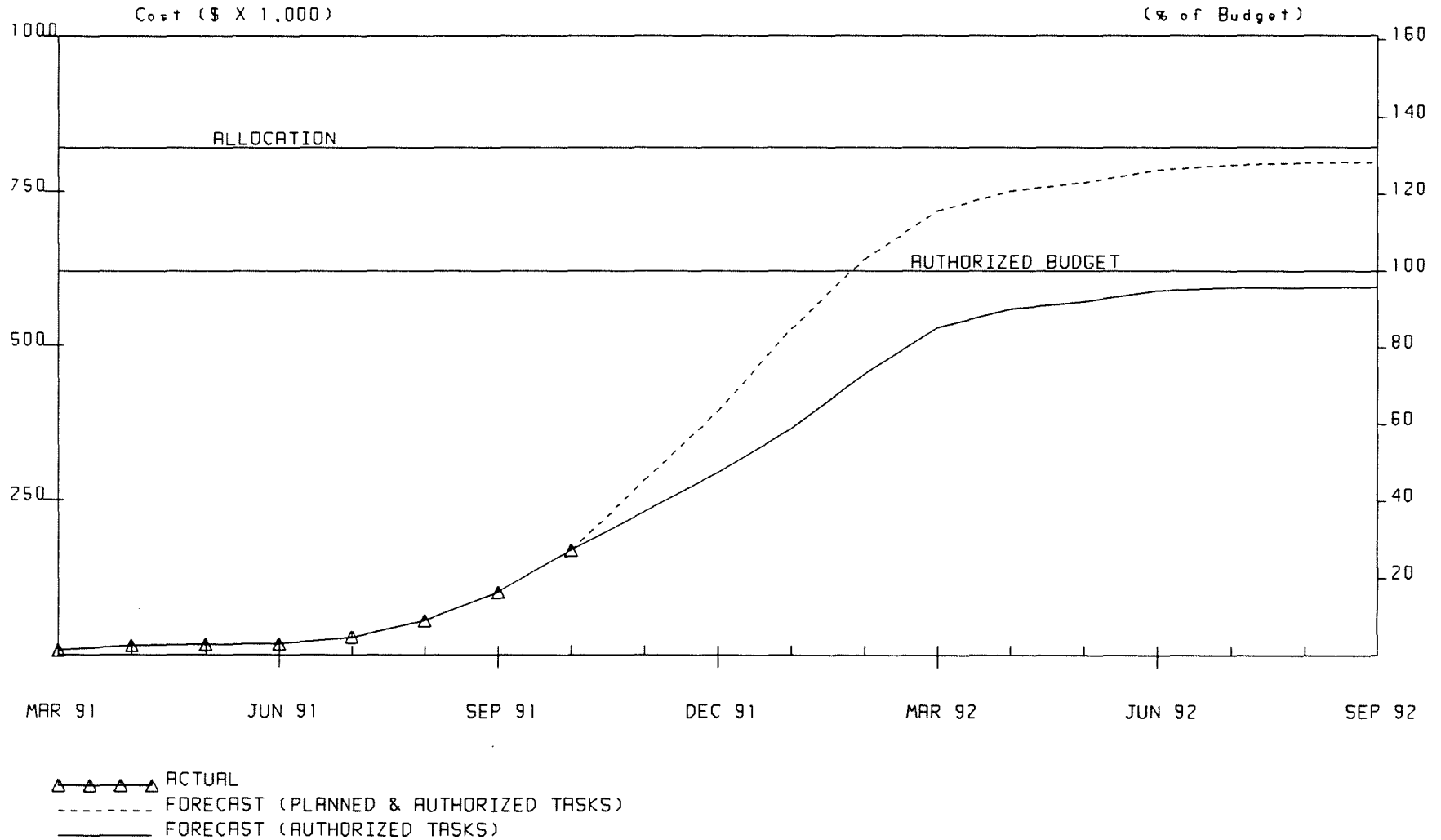
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 11/11/91
RUN TIME: 10:51 AM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

October 1991



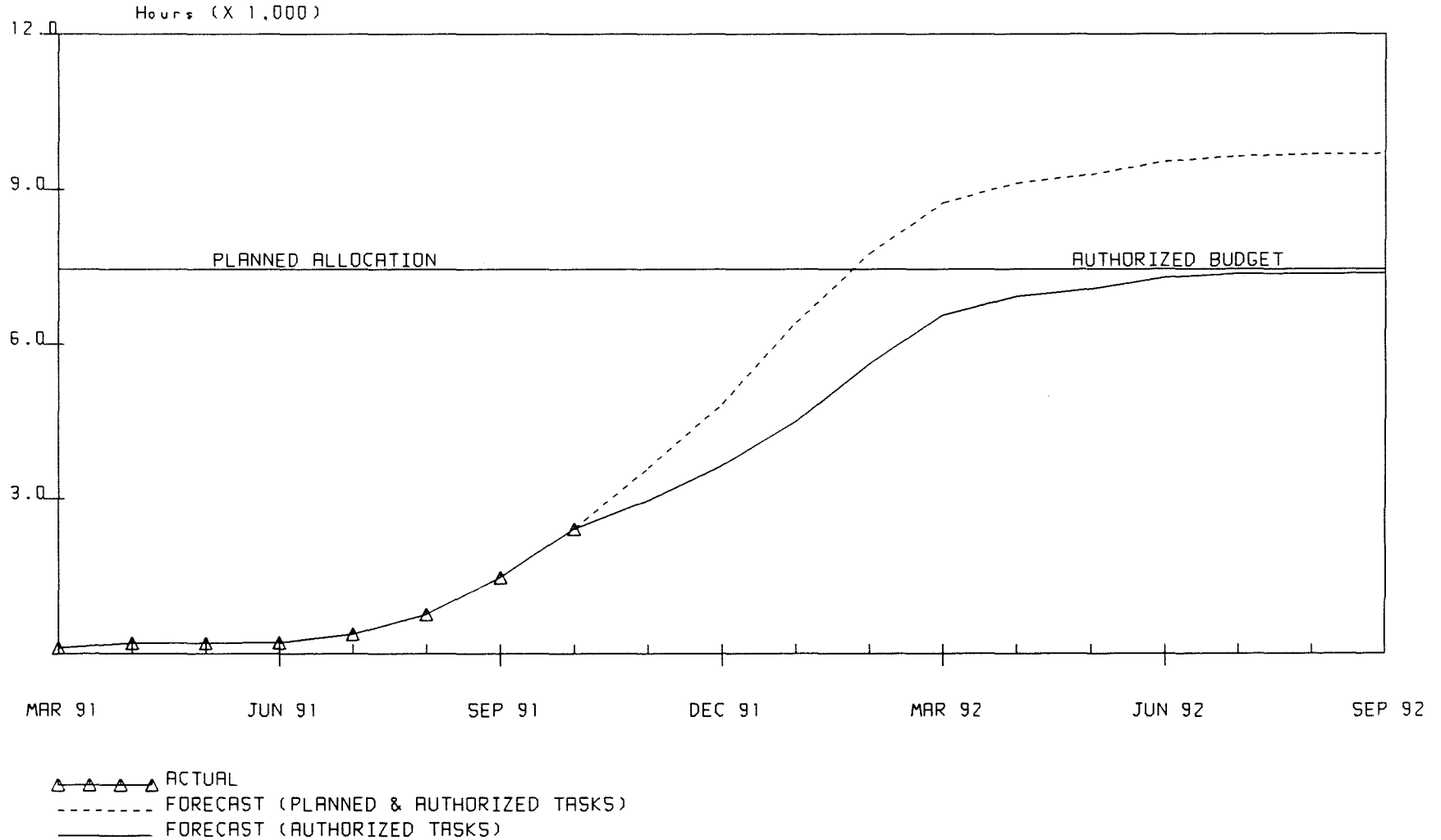
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 7.461
AUTHORIZED BUDGET: 7.461

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 11/11/91
RUN TIME: 10:51 AM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

October 1991



RECEIVED

ARCS V TECHNICAL STATUS REPORT
November 1991

DEC 23 1991

BUREAU OF SOLID -
HAZARDOUS WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: November 30, 1991
COPIES: RPM: Kevin Adler, U.S. EPA Region 5
PM: John Fleissner, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Work Plan Revision Request No. 2 (landfill cap design component) was approved on November 4, and work on the landfill cap was initiated by conducting a property survey on November 5 and 6. Landfill cap design has progressed to the point where alternative grading plans have been developed. A meeting including CH2M HILL, WDNR, and the EPA was held in Madison on November 25 to discuss the grading alternatives.

A telephone conference call was held on November 14 with CH2M HILL, WDNR, and the EPA WAM to discuss review comments on the groundwater treatment predesign report. The WDNR had not completed their review, but did comment that the proposed system appeared to meet the requirements of best available technology (BAT). The WDNR said they would complete their review of effluent-based water quality limits before November 28. Final design of the groundwater extraction and treatment system will commence the first week of December.

The in situ biotreatability bench test was completed. The degradation rate was lower than anticipated, and it was difficult to predict long-term degradation rates from the results. Because changes in concentrations observed over the 30-day test period were smaller than expected, continuing the test for another 1 to 2 months at a reduced level of effort is being considered. A Work Plan Revision Request No. 3, is in progress to include the continuation of this test.

2. Problems Resolved

WPRR No. 2 was approved.

3. Problem Areas and Recommended Solutions

Results of the in situ biotreatability test indicate that the degradation rate is lower than anticipated. There is some question, however, whether or not the organisms responsible for degrading the non-aqueous phase contaminants may be going through an extended acclimation period, and the degradation rate could increase significantly over the next 2 months. By continuing to aerate the test columns and sampling every 2 weeks over the course of the next 2 months, any substantial changes in bioactivity should be observed. WPRR No. 3 is in progress to extend the test period. The forecasted budget indicates a budget overrun, equal to the additional budget required to complete the treatability test.

The WDNR has indicated they would prefer the discharge of treated effluent be to Bullet Chute via a diffuser. If a diffuser design is required, then additional information, including a bathymetric survey, must be collected. We will proceed assuming the outfall design will be a diffuser located downstream of the railroad trestle.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Final design of the groundwater extraction and treatment system will begin. The in situ biotreatability predesign report will be submitted. Landfill cap intermediate design will continue. A geotechnical study of soils underlying the proposed location for the process building is planned for December.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Jim Russell and Mike Paddock traveled to the site on November 5 to conduct the property survey.

Steve Keith, Jim Russell, and Mike Paddock traveled to Madison on November 25 to discuss landfill cap grading alternatives with the WDNR and EPA WAM.

9. Laboratories

Bench-scale testing of in situ treatment continued at CH2M HILL's Bioassay Laboratory.

10. Project Performance ✓

The project has proceeded in a timely fashion without any major setbacks or problems. Steady communication between the EPA, WDNR, and CH2M HILL has been maintained.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	A	7	67	200	0	2,695	2,895	4,948	2,053
QC Quality Control	A	0	0	0	0	4,626	4,626	5,107	480
MG Meetings (External)	A	0	0	0	0	9,649	9,649	10,221	572
GM Groundwater Monitoring Plan	A	8	2,092	2,092	0	24,697	26,789	29,355	2,566
MS Miscellaneous Support	A	0	0	0	0	5,440	5,440	5,457	16
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		7	2,159	3,351	0	47,107	50,458	56,933	6,472
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	0	0	0	0	20,498	20,498	20,553	55
EC Estimates - Cost	A	0	0	0	0	14,852	14,852	15,185	332
PM Project Management	A	11	1,497	1,497	0	12,019	13,516	14,645	1,129
QC Quality Control	A	0	0	0	0	11,474	11,474	13,513	2,038
GX Groundwater Extraction Desig	A	3	447	820	0	23,584	24,404	23,907	-497
GT Groundwater Treatment Design	A	0	0	0	0	82,373	82,373	82,358	-14
MG Meetings (External)	A	0	0	0	0	7,421	7,421	7,397	-23
ML Manuals - Operations and Mai	A	0	0	0	0	18,833	18,833	18,865	31
IT Insitu Treatment Design	A	0	0	0	0	42,981	42,981	42,863	-117
SL Construction Schedule Develo	A	0	0	0	0	25,740	25,740	25,836	96
Activity Total		1	1,943	2,317	0	259,775	262,092	265,122	3,030
65602LC									
LANDFILL CAP DESIGN									
ZZ General	A	100	2,875	2,875	0	0	2,875		-2,875
WP EPA Workplan	A	79	4,841	4,841	0	1,288	6,129	6,877	747
QC Quality Control	A	0	0	0	0	15,034	15,034	14,743	-291
PM Project Management	A	15	2,643	2,643	0	14,852	17,495	14,689	-2,806
PP Project Planning General	A	4	67	67	0	1,597	1,664	2,558	893
ED Existing Data Review	A	0	0	0	0	60	60	2,324	2,263
C1 Civil Engineering Design - G	A	43	7,969	7,969	0	10,560	18,529	15,866	-2,663
G1 Predesign - Geotechnical	A	49	1,282	1,282	0	1,348	2,630	7,133	4,503
P1 Plans and Specifications - P	A	63	590	590	0	350	940	14,977	14,036
R8 Report - 1st Draft Predesign	A	100	446	446	0	0	446	6,897	6,450
C3 Civil Eng - Intermediate Des	A	0	0	0	0	4,444	4,444	4,492	47
G3 Geotechnical Eng - Intermedi	A	0	0	0	0	5,162	5,162	5,158	-4
P2 Plans and Specifications - I	A	0	0	0	0	13,714	13,714	13,705	-8
C4 Civil Eng - Final Design	A	0	0	0	0	4,091	4,091	4,082	-8
G4 Geotechnical Eng - Final Des	A	0	0	0	0	4,041	4,041	4,036	-5
P3 Plans and Specifications - F	A	0	0	0	0	18,857	18,857	18,722	-135
EC Estimates - Cost	A	0	0	0	0	3,048	3,048	3,074	25
SL Construction Schedule Develo	A	0	0	0	0	5,063	5,063	5,076	13
QS QAPP/SSP/FSP	A	0	0	0	0	7,978	7,978	7,954	-23

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
ML Manuals - Operations and Mai	A	0	0	0	6,549	6,549	6,526 -23
HS Health and Safety	A	0	0	0	4,097	4,097	4,005 -92
MG Meetings (External)	A	6	223	223	3,456	3,679	3,452 -226
MS Miscellaneous Support	A	9	557	557	5,526	6,083	7,783 1,699
Activity Total		14	21,494	21,494	0 131,115	152,609	174,128 21,517
65602PC Project Closeout							
PC Project Closeout Procedures	A	0	0	0	8,797	8,797	8,878 80
Activity Total		0	0	0	8,797	8,797	8,878 80
65602PD Preliminary Design							
EC Estimates - Cost	A	48	2,160	2,450	0 2,693	5,143	7,041 1,897
PM Project Management	A	95	1,651	10,616	0 578	11,194	10,213 -980
QC Quality Control	A	100	1,420	8,879	0 0	8,879	5,851 -3,027
QS QAPP/SSP/FSP	A	75	26	11,341	0 3,704	15,045	16,629 1,584
HS Health and Safety	A	22	0	406	0 1,407	1,813	3,625 1,811
R7 Report - Predesign	A	71	3,310	15,059	0 6,148	21,207	17,989 -3,217
H6 Haz Waste Design - Advanced	A	56	14,156	53,818	0 42,846	96,664	74,478 -22,186
H1 Haz Waste Design - Process E	A	100	9,593	49,443	0 0	49,443	50,635 1,191
MG Meetings (External)	A	100	622	3,380	0 0	3,380	5,763 2,382
C1 Civil Engineering Design - G	A	9	98	811	0 7,878	8,689	9,311 621
ZZ General	A	100	-6,286	1,627	0 0	1,627	-1,627
Activity Total		71	26,749	157,830	0 65,254	223,084	201,534 -21,551
65602PP Project Planning - RD							
PM Project Management	A	66	-5,875	9,396	0 4,847	14,243	13,961 -281
PP Project Planning General	A	100	0	3,869	0 0	3,869	2,917 -952
QC Quality Control	A	100	0	1,611	0 0	1,611	1,879 268
WP EPA Workplan	A	100	0	9,337	0 0	9,337	10,272 934
ZZ General	A	0	-183	0	0 0	0	0
Activity Total		83	-6,058	24,213	0 4,847	29,060	29,029 -31
Work Assignment Total		29	46,288	209,206	0 516,895	726,101	735,624 9,517

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	47,675	215,686					
AUTH. TASKS w/EST. FULL FEE	51,842	233,330	573,112	806,442	817,360	10,917	
ALL TASKS w/EST. FULL FEE		233,330	573,112	806,442			0

Projection: (Monthly/Cumulative)

DEC91	JAN92	FEB92	MAR92	APR92	MAY92
144,932	159,210	113,307	79,805	30,950	13,242
378,262	537,472	650,779	730,584	761,534	774,776

Current Cost Invoiced:

Direct Labor	14,409	Indirects	24,209
Equipment	2,822	Base Fee	1,387
ODC	4,005	Award Fee	0
Subcontracts	291	Travel	551
Laboratory Service	0	TOTAL	47,675

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
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ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	A	9	1	3	32 35	64 29
QC Quality Control	A	0	0	0	56 56	64 8
MG Meetings (External)	A	0	0	0	132 132	140 8
GM Groundwater Monitoring Plan	A	9	34	34	355 389	416 27
MS Miscellaneous Support	A	0	0	0	80 80	80
LS Landfill Cap Support	C	100	0	15	0 15	28 13
Activity Total		7	35	52	655 707	792 85
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	A	0	0	0	300 300	300
EC Estimates - Cost	A	0	0	0	221 221	224 3
PM Project Management	A	12	21	21	158 179	196 17
QC Quality Control	A	0	0	0	134 134	160 26
GX Groundwater Extraction Desig	A	4	12	12	328 340	328 -12
GT Groundwater Treatment Design	A	0	0	0	1,160 1,160	1,160
MG Meetings (External)	A	0	0	0	100 100	100
ML Manuals - Operations and Mai	A	0	0	0	272 272	272
IT Insitu Treatment Design	A	0	0	0	584 584	584
SL Construction Schedule Develo	A	0	0	0	382 382	382
Activity Total		1	33	33	3,639 3,672	3,706 34
65602LC						
LANDFILL CAP DESIGN						
ZZ General	A	100	52	52	0 52	-52
WP EPA Workplan	A	89	80	80	10 90	88 -2
QC Quality Control	A	0	0	0	156 156	156
PM Project Management	A	20	44	44	178 222	178 -44
PP Project Planning General	A	5	1	1	18 19	30 11
ED Existing Data Review	A	0	0	0	0 0	36 36
C1 Civil Engineering Design - G	A	48	132	132	144 276	232 -44
G1 Predesign - Geotechnical	A	59	23	23	16 39	102 63
P1 Plans and Specifications - P	A	100	16	16	0 16	210 194
R8 Report - 1st Draft Predesign	A	100	8	8	0 8	84 76
C3 Civil Eng - Intermediate Des	A	0	0	0	72 72	72
G3 Geotechnical Eng - Intermedi	A	0	0	0	72 72	72
P2 Plans and Specifications - I	A	0	0	0	192 192	192
C4 Civil Eng - Final Design	A	0	0	0	56 56	56
G4 Geotechnical Eng - Final Des	A	0	0	0	56 56	56
P3 Plans and Specifications - F	A	0	0	0	240 240	240
EC Estimates - Cost	A	0	0	0	48 48	48
SL Construction Schedule Develo	A	0	0	0	74 74	74
QS QAPP/SSP/FSP	A	0	0	0	108 108	108

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9,807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED	
ML Manuals - Operations and Mai	A	0	0	0	88	88	
HS Health and Safety	A	0	0	0	40	40	
MG Meetings (External)	A	8	4	4	48	52	-4
MS Miscellaneous Support	A	13	10	10	68	78	18
Activity Total		18	370	370	1,684	2,054	2,306 252
65602PC							
Project Closeout							
PC Project Closeout Procedures	A	0	0	0	140	140	140
Activity Total		0	0	0	140	140	140
65602PD							
Preliminary Design							
EC Estimates - Cost	A	49	41	47	48	95	120 25
PM Project Management	A	95	22	146	8	154	148 -6
QC Quality Control	A	100	21	115	0	115	84 -31
QS QAPP/SSP/FSP	A	77	0	157	48	205	240 35
HS Health and Safety	A	33	0	6	12	18	48 30
R7 Report - Predesign	A	75	46	233	77	310	264 -46
H6 Haz Waste Design - Advanced	A	56	234	878	688	1,566	815 -751
H1 Haz Waste Design - Process E	A	100	154	756	0	756	638 -118
MG Meetings (External)	A	100	10	51	0	51	80 29
C1 Civil Engineering Design - G	A	20	0	10	40	50	60 10
ZZ General	A	0	-128	0	0	0	
Activity Total		72	400	2,399	921	3,320	2,497 -823
65602PP							
Project Planning - RD							
PM Project Management	A	62	-111	92	56	148	160 12
PP Project Planning General	A	100	0	50	0	50	40 -10
QC Quality Control	A	100	0	22	0	22	24 2
WP EPA Workplan	A	100	0	123	0	123	142 19
ZZ General	A	0	-3	0	0	0	
Activity Total		84	-114	287	56	343	366 23
Work Assignment Total		31	724	3,141	7,095	10,236	9,807 -429

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9,807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 144
 RUN DATE: 12/11/91
 RUN TIME: 11:36 AM
 AS OF: 11/91

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS		724	3,141	7,095	10,236	9,807	-429	
ALL TASKS			3,141	7,095	10,236			0

Projection: (Monthly/Cumulative)

	DEC91	JAN92	FEB92	MAR92	APR92	MAY92
	1,798	1,972	1,411	994	377	157
	4,939	6,911	8,322	9,316	9,693	9,850

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 12/10/91
 RUN TIME: 02:47
 AS OF: 11/91

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----			
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE	
Design Support Activities						
GW Monitoring Plan	10/15/91		12/05/91 P	30+	1	
Prefinal/Final Design						
Draft O&M Manual	10/28/91		02/26/92 P	30+	2	
Prefinal Design - GWT	11/20/91		03/11/92 P	30+	3	
Prefinal Design - ISB	11/27/91		05/06/92 P	30+	4	
Final Design - GWT	01/21/92		05/06/92 P	30+	5	
Final Design - ISB	01/13/92		06/03/92 P	30+	6	
Preliminary Design						
Bioremediation QAPP	07/07/91		08/14/91 A	30+	7	
Predesign Report - GWT	08/30/91		10/18/91 A	30+	8	
Predesign Report - ISB	08/23/91		12/15/91 P	30+	9	
Project Planning - RD						
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		10	
Submit Final Work Plan	04/17/91		04/17/91 A		11	
Submit Revised Final Work Plan	05/23/91		05/23/91 A		12	
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	13	

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NOTES:

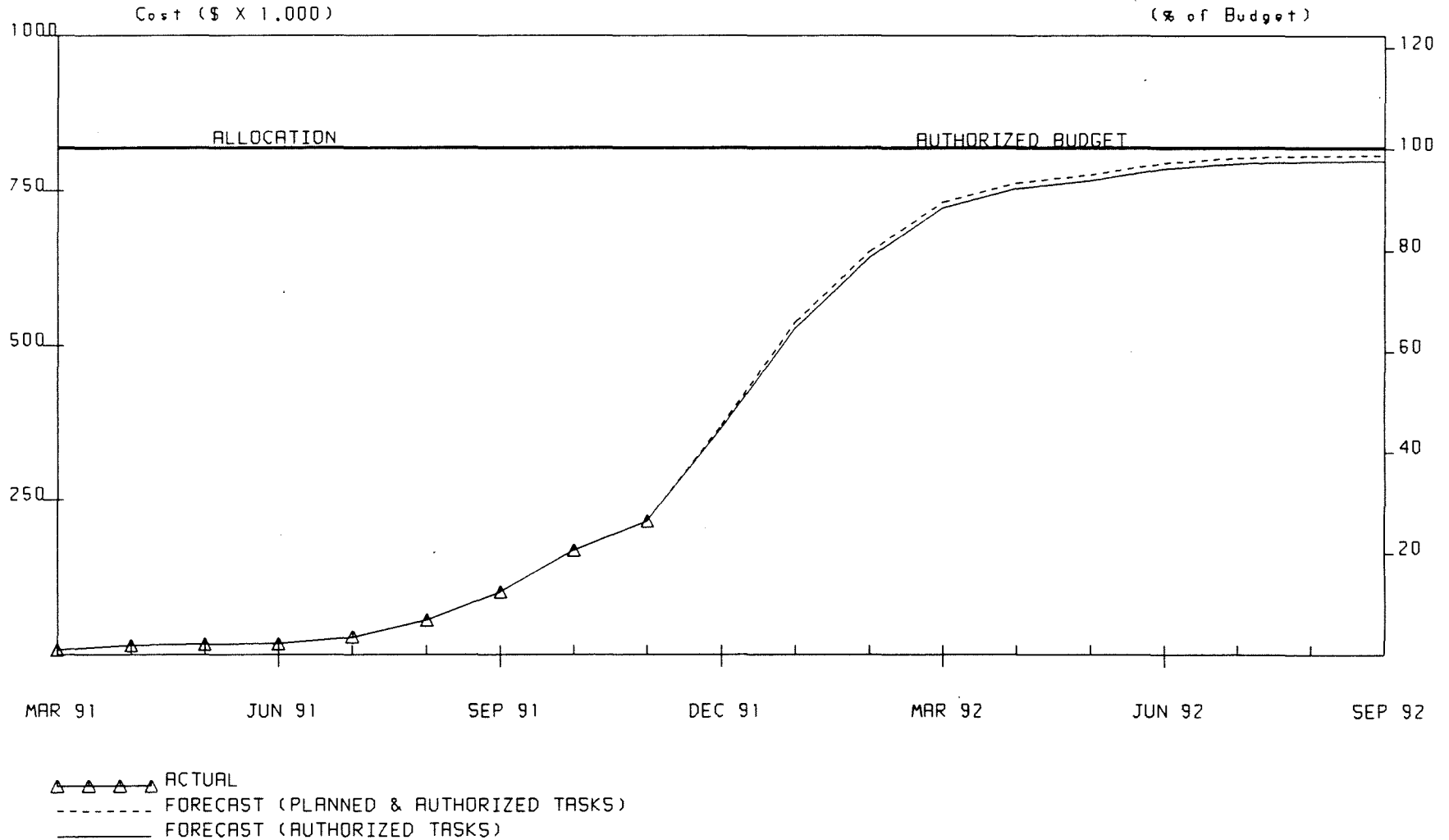
MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$820.852
 AUTHORIZED BUDGET: \$817.360

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 12/10/91
 RUN TIME: 04:53 PM

ONALASKA MUNICIPAL LANDFILL, WI
 TOTAL COSTS (W/FEES)

November 1991



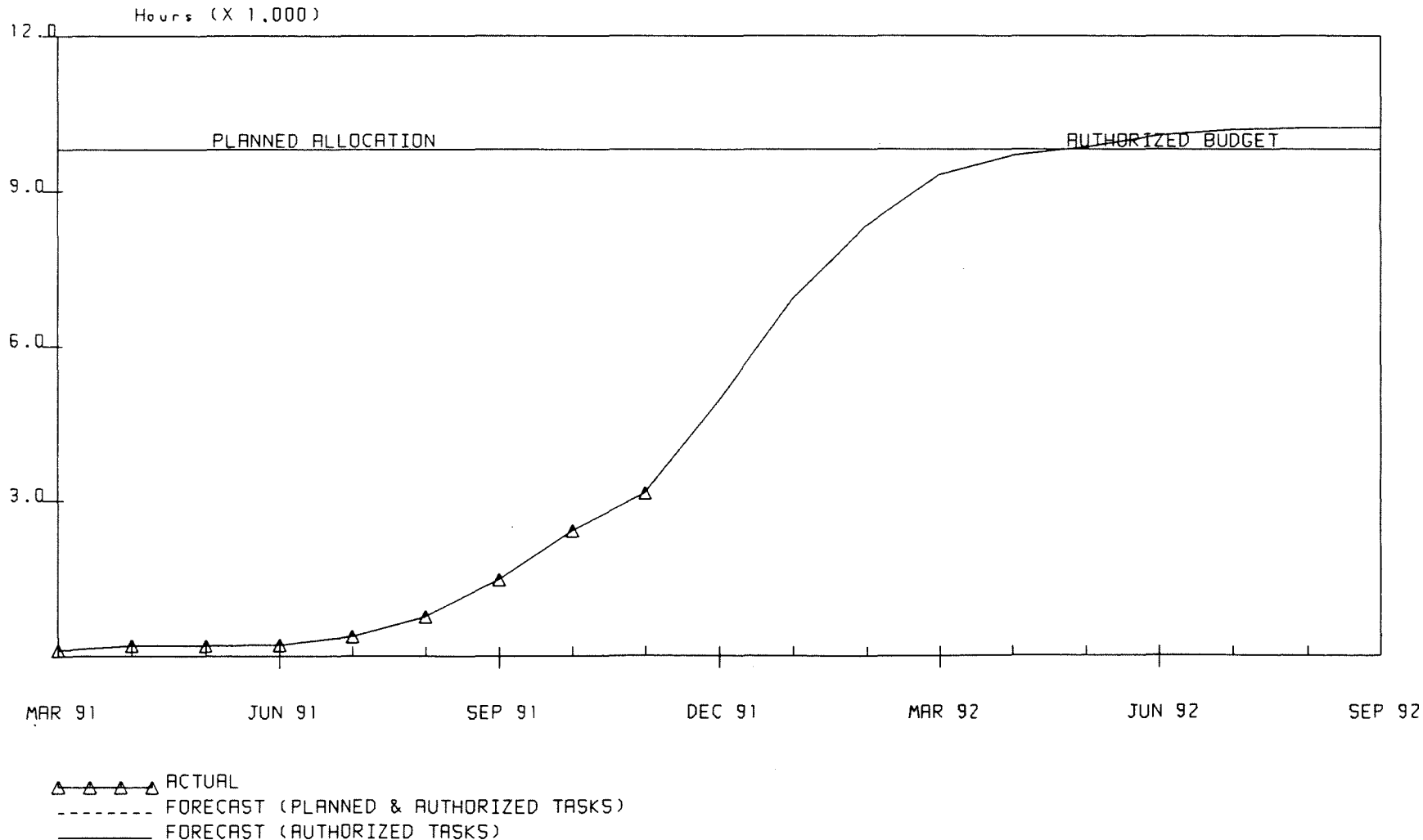
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 9.807
AUTHORIZED BUDGET: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 12/10/91
RUN TIME: 04:53 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

November 1991



Kozol

ARCS V TECHNICAL STATUS REPORT
December 1991

RECEIVED
JUN 22 5
BUREAU OF SOLID WASTE
WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

DATE PREPARED: December 31, 1991

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: John Fleissner, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

A technical memorandum evaluating the feasibility of incorporating sediments dredged from Dodge Chute into the Onalaska Landfill Cap was submitted on December 9. While the memorandum concludes that use of dredged materials is feasible, a number of administrative issues could prevent this option from being implemented. The Contractor has attempted to maintain flexibility in the design approach to accommodate the evolving conditions and uncertainty as to whether the Dodge Chute will be dredged. The Contractor has maintained frequent contact with the EPA and WDNR on dredged sediment use to provide technical assistance as needed.

A technical memorandum presenting the methods and results of the 30-day bench-scale in situ treatability test was submitted on December 18. Aeration of the sample columns is continuing, but the test protocol has been modified to require less frequent analyses.

Additional comments on the groundwater extraction and treatment system predesign report were received from the WDNR, although some comments are still pending. The WDNR did state that ammonia effluent limits would not be established for the discharge to the Black River (Bullet Chute). The WAM, WDNR, and Contractor agreed that the facility location proposed in the predesign report would be retained.

The Contractor and the WAM reviewed the advantages and disadvantages of not having the sand filter installed until after facility start-up and the need for the filter was determined. The WAM agreed that the design should allow for future installation of the filter, but will not incorporate it initially.

Comments on the proposed grading alternatives were received from the WAM and WDNR. It was agreed that the Contractor will pursue an alternative that combines aspects of both alternatives, and which minimizes the amount of exposure to waste under the existing cap, and minimizes the amount of fill required as well. It was also agreed that the location of the access road would be changed to enter from the south end of the property, from the Sportsmans Club road.

WPRR No. 3 was submitted on December 3. This WPRR proposed extending the duration of the in situ treatability test.

2. Problems Resolved

It was agreed that the La Crosse area office of the WDNR will be responsible for preparing dredging plans and specifications for the alternative bid item of using Dodge Chute dredge sediments in the Onalaska Landfill Cap. The La Crosse Area office will perform all associated design and coordination relating to this activity. CH2M HILL will assist with review as indicated in WPRR No. 2. The plans and specifications for dredging may be included in the Landfill Cap Remedial Action Contract as a reference attachment. The inclusion of this information will depend upon the anticipated risks of using dredged material, cost differences between using dredged material versus an upland source, and potential schedule impacts. CH2M HILL, EPA, and the WDNR will develop legal language with respect to dredging responsibilities in the event that the dredging alternative is selected.

3. Problem Areas and Recommended Solutions

The outfall location for the groundwater treatment system has not yet been defined. The WDNR has indicated a preference toward an outfall located in Bullet Chute. This location, however, will likely cost significantly more than a surface outfall located along the east bank of the Black River. Also, construction in the river will likely require more extensive input and review by the Army Corps of Engineers. The design of a specific outfall has been suspended pending investigations into the acceptability to landowners and WDNR to an outfall located either upstream of the proposed location, or downstream of the Hubley residence, both along the east bank of the Black River.

The requirements for landfill gas control have not been finalized. The WDNR has requested that the design provide for maintaining less than 25 percent of the lower explosive limit (LEL) at the property boundary. Because gas-generating waste exists at the boundary, this may not be feasible. A passive gas collection system, located along the west and southern edges of the site could help alleviate concerns about gas migrating to the Hubley residence or to the proposed treatment building. A limited field study is planned for next month to evaluate the extent of gas migration west of the site and finalize the passive system design.

A technical memorandum evaluating the feasibility of incorporating sediments dredged from the Dodge Chute into the Onalaska Landfill Cap was submitted on December 9.

4. Deliverables Submitted

A technical memorandum, summarizing the methods and results of the 30-day bench scale soil treatability test, was submitted to the WAM on December 18.

5. Activities Planned Next Reporting Period

The In Situ Biotreatment Predesign Report will be submitted to the EPA and WDNR for review.

A field reconnaissance effort that will include an inventory of RI-derived waste, landfill gas sampling in pore space to the west of the landfill to examine the extent of gas migration, groundwater sampling to evaluate the potential for bacterial slime build-up on extraction wells, and reconnaissance of potential outfall locations, is planned for January 2.

The 60 percent landfill cap design is scheduled for submittal to the EPA at the end of January.

Bench-scale testing of the in situ biotreatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Although no travel was conducted this month, charges for transportation to the site in November are reported this month.

9. Laboratories

Bench-scale testing of the in situ biotreatment continued at CH2M HILL's Bioassay Laboratory.

10. Project Performance

The Contractor has maintained close contact with the WAM during the past month. There have been a number of difficult issues to be resolved, and this has required frequent contacts with a number of regulatory agencies.

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 139
 RUN DATE: 01/09/92
 RUN TIME: 10:33 AM
 AS OF: 12/91

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
65602DS							
Design Support Activities							
PM Project Management	A 16	600	800	0	4,167	4,967	4,948 -19 2,921
QC Quality Control	A 0	0	0	0	5,149	5,149	5,107 -42 5,151
MG Meetings (External)	A 0	0	0	0	9,870	9,870	10,221 351 9,649
GM Groundwater Monitoring Plan	A 20	2,905	4,997	0	20,333	25,330	29,355 4,025 29,347
MS Miscellaneous Support	A 0	0	0	0	4,328	4,328	5,457 1,128 5,440
LS Landfill Cap Support	C 100	0	1,059	0	0	1,059	1,845 785 1,060
Activity Total	14	3,505	6,857	0	43,847	50,704	56,933 6,228 53,568
65602FD							
Prefinal/Final Design							
DS Plans and Specifications	A 1	131	131	0	20,498	20,629	20,553 -75 20,498
EC Estimates - Cost	A 0	0	0	0	14,580	14,580	15,185 604 15,131
PM Project Management	A 40	5,544	7,040	0	10,501	17,541	14,645 -2,896 14,705
QC Quality Control	A 6	733	733	0	11,529	12,262	13,513 1,250 13,684
ZZ General	A 100	124	124	0	0	124	-123 570 23,958
GX Groundwater Extraction Design	A 9	1,349	2,169	0	21,167	23,336	23,907 1,364 82,373
GT Groundwater Treatment Design	A 21	16,731	16,731	0	64,262	80,993	82,358 1,364 82,373
MG Meetings (External)	A 0	0	0	0	7,420	7,420	7,397 -22 7,421
ML Manuals - Operations and Mai	A 3	564	564	0	15,850	16,414	18,865 2,450 18,833
IT Insitu Treatment Design	A 0	0	0	0	42,980	42,980	42,863 -116 42,981
SL Construction Schedule Develo	A 1	189	189	0	24,155	24,344	25,836 1,491 25,740
Activity Total	11	25,365	27,682	0	232,942	260,624	265,122 4,497 265,324
65602LC							
LANDFILL CAP DESIGN							
ZZ General	A 100	-2,419	456	0	0	456	-456 6,927
WP EPA Workplan	A 100	0	4,841	0	0	4,841	6,877 2,035 6,927
QC Quality Control	A 0	0	0	0	15,034	15,034	14,743 -291 15,034
PM Project Management	A 28	1,214	3,858	0	9,713	13,571	14,689 1,118 14,852
PP Project Planning General	A 100	444	511	0	0	511	2,558 2,046 2,592
ED Existing Data Review	A 25	780	780	0	2,306	3,086	2,324 -762 2,306
C1 Civil Engineering Design - G	A 80	5,754	13,723	0	3,431	17,154	15,866 -1,287 15,821
G1 Predesign - Geotechnical	A 64	4,424	5,706	0	3,237	8,943	7,133 -1,809 7,126
P1 Plans and Specifications - P	A 26	4,420	5,011	0	14,242	19,253	14,977 -4,275 14,985
R8 Report - 1st Draft Predesign	A 66	4,347	4,792	0	2,417	7,209	6,897 -312 6,971
C3 Civil Eng - Intermediate Des	A 0	0	0	0	4,443	4,443	4,492 43 4,444
G3 Geotechnical Eng - Intermedi	A 0	0	0	0	0	0	5,158 5,157 5,162
P2 Plans and Specifications - I	A 0	0	0	0	13,713	13,713	13,705 -7 13,714
C4 Civil Eng - Final Design	A 0	0	0	0	4,091	4,091	4,082 -8 4,091
G4 Geotechnical Eng - Final Des	A 0	0	0	0	4,041	4,041	4,036 -5 4,041
P3 Plans and Specifications - F	A 0	0	0	0	18,857	18,857	18,722 -135 18,857
EC Estimates - Cost	A 0	0	0	0	3,047	3,047	3,074 26 3,048
SL Construction Schedule Develo	A 0	0	0	0	5,063	5,063	5,076 13 5,063

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820.852

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 01/09/92
 RUN TIME: 10:33 AM
 AS OF: 12/91

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		UNRECORDED	ESTIMATED		AT COMPLETE	----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE		TO COMPLETE	BUDGET		VARIANCE		
QS QAPP/SSP/FSP	A	0	0	0	0	7,976	7,976		7,954	-21	7,978
ML Manuals - Operations and Mai	A	0	0	0	0	6,549	6,549		6,526	-23	6,549
HS Health and Safety	A	0	0	0	0	4,096	4,096		4,005	-91	4,097
MG Meetings (External)	A	24	773	996	0	3,230	4,226		3,452	-773	3,456
MS Miscellaneous Support	A	10	279	836	0	7,300	8,136		7,783	-352	7,860
Activity Total		24	20,016	41,510	0	132,786	174,296		174,128	-164	174,974
65602PC											
Project Closeout											
PC Project Closeout Procedures	A	0	0	0	0	8,797	8,797		8,878	80	8,797
Activity Total		0	0	0	0	8,797	8,797		8,878	80	8,797
65602PD											
Preliminary Design											
EC Estimates - Cost	A	47	0	2,450	0	2,743	5,193		7,041	1,847	3,084
PM Project Management	A	100	202	10,817	0	0	10,817		10,213	-604	10,669
QC Quality Control	A	100	67	8,945	0	0	8,945		5,851	-3,094	7,459
QS QAPP/SSP/FSP	A	100	0	11,341	0	0	11,341		16,629	5,288	15,019
HS Health and Safety	A	100	0	406	0	0	406		3,625	3,218	1,813
R7 Report - Predesign	A	96	214	15,273	0	600	15,873		17,989	2,116	17,898
H6 Haz Waste Design - Advanced	A	71	20,683	74,501	0	30,954	105,455		74,478	-30,977	114,537
H1 Haz Waste Design - Process E	A	100	3,730	53,173	0	0	53,173		50,635	-2,538	46,773
MG Meetings (External)	A	59	0	3,380	0	2,382	5,762		5,763		3,943
C1 Civil Engineering Design - G	A	15	590	1,401	0	8,148	9,549		9,311	-238	9,706
ZZ General	A	100	77	1,704	0	0	1,704			-1,704	7,914
Activity Total		80	25,563	183,393	0	44,827	228,220		201,534	-26,686	238,815
65602PP											
Project Planning - RD											
PM Project Management	A	72	1,170	10,566	0	4,100	14,666		13,961	-705	21,183
PP Project Planning General	A	100	0	3,869	0	0	3,869		2,917	-952	3,868
QC Quality Control	A	100	0	1,611	0	0	1,611		1,879	268	1,610
WP EPA Workplan	A	100	47	9,385	0	0	9,385		10,272	886	9,337
ZZ General	A	0	0	0	0	0	0				183
Activity Total		86	1,218	25,431	0	4,100	29,531		29,029	-503	36,181
Work Assignment Total		38	75,667	284,872	0	467,299	752,171		735,624	-16,548	777,659

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0010
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
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 AS OF: 12/91

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR
		CURRENT	TO DATE UNRECORDED TO COMPLETE	AT COMPLETE BUDGET	VARIANCE SUBMITTED

AUTH. TASKS w/INVOICED FEE	77,718	293,404			
AUTH. TASKS w/EST. FULL FEE	84,049	317,379	517,225	834,604	817,360 -17,243
ALL TASKS w/EST. FULL FEE		317,379	517,225	834,604	861,359

Projection: (Monthly/Cumulative)

JAN92	FEB92	MAR92	APR92	MAY92	JUN92
220,477	129,594	91,939	29,712	15,309	19,324
537,856	667,450	759,389	789,101	804,410	823,734
					<Overrun>

Current Cost Invoiced:

Direct Labor	22,055	Indirects	37,054
Equipment	1,895	Base Fee	2,052
ODC	7,073	Award Fee	0
Subcontracts	165	Travel	168
Laboratory Service	7,256	TOTAL	77,718

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 142
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 AS OF: 12/91

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	A	18	9	12	53 65	64 -1 34
QC Quality Control	A	0	0	0	64 64	64 64
MG Meetings (External)	A	0	0	0	140 140	140 132
GM Groundwater Monitoring Plan	A	23	53	87	290 377	416 39 416
MS Miscellaneous Support	A	0	0	0	64 64	80 16 80
LS Landfill Cap Support	C	100	0	15	0 15	28 13 15
Activity Total		16	62	114	611 725	792 67 741
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	A	1	2	2	300 302	300 -2 300
EC Estimates - Cost	A	0	0	0	224 224	224 224
PM Project Management	A	41	76	97	138 235	196 -39 196
QC Quality Control	A	6	9	9	134 143	160 17 160
ZZ General	A	100	1	1	0 1	-1 -1 160
GX Groundwater Extraction Design	A	10	21	33	285 318	328 10 328
GT Groundwater Treatment Design	A	26	314	314	909 1,223	1,160 -63 1,160
MG Meetings (External)	A	0	0	0	100 100	100 100
ML Manuals - Operations and Mai	A	4	10	10	231 241	272 31 272
IT Insitu Treatment Design	A	0	0	0	584 584	584 584
SL Construction Schedule Develo	A	1	4	4	354 358	382 24 382
Activity Total		13	437	470	3,259 3,729	3,706 -23 3,706
65602LC						
LANDFILL CAP DESIGN						
ZZ General	A	100	-41	11	0 11	-11 -11 88
WP EPA Workplan	A	100	0	80	0 80	88 8 88
QC Quality Control	A	0	0	0	156 156	156 156
PM Project Management	A	37	18	62	106 168	178 10 178
PP Project Planning General	A	100	8	9	0 9	30 21 30
ED Existing Data Review	A	28	14	14	36 50	36 -14 36
C1 Civil Engineering Design - G	A	79	79	211	55 266	232 -34 232
G1 Predesign - Geotechnical	A	70	77	100	43 143	102 -41 102
P1 Plans and Specifications - P	A	37	98	114	194 308	210 -98 210
R8 Report - 1st Draft Predesign	A	81	75	83	20 103	84 -19 84
C3 Civil Eng - Intermediate Des	A	0	0	0	72 72	72 72
G3 Geotechnical Eng - Intermedi	A	0	0	0	0 0	72 72
P2 Plans and Specifications - I	A	0	0	0	192 192	192 192
C4 Civil Eng - Final Design	A	0	0	0	56 56	56 56
G4 Geotechnical Eng - Final Des	A	0	0	0	56 56	56 56
P3 Plans and Specifications - F	A	0	0	0	240 240	240 240
EC Estimates - Cost	A	0	0	0	48 48	48 48
SL Construction Schedule Develo	A	0	0	0	74 74	74 74

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 143
 RUN DATE: 01/09/92
 RUN TIME: 10:33 AM
 AS OF: 12/91

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE		
QS QAPP/SSP/FSP	A	0	0	0	108	108	108		108	
ML Manuals - Operations and Mai	A	0	0	0	88	88	88		88	
HS Health and Safety	A	0	0	0	40	40	40		40	
MG Meetings (External)	A	27	12	16	44	60	48	-12	48	
MS Miscellaneous Support	A	15	5	15	86	101	96	-5	96	
Activity Total		29	345	715	1,714	2,429	2,306	-123	2,306	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	140	140	140		140	
Activity Total		0	0	0	140	140	140		140	
65602PD										
Preliminary Design										
EC Estimates - Cost	A	49	0	47	48	95	120	25	54	
PM Project Management	A	100	2	148	0	148	148		148	
QC Quality Control	A	100	1	116	0	116	84	-32	94	
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	205	
HS Health and Safety	A	100	0	6	0	6	48	42	18	
R7 Report - Predesign	A	100	0	233	0	233	264	31	264	
H6 Haz Waste Design - Advanced	A	74	158	1,036	366	1,402	815	-587	1,575	
H1 Haz Waste Design - Process E	A	100	52	808	0	808	638	-170	638	
MG Meetings (External)	A	64	0	51	29	80	80		53	
C1 Civil Engineering Design - G	A	26	8	18	50	68	60	-8	60	
ZZ General	A	100	27	27	0	27		-27	128	
Activity Total		84	248	2,647	493	3,140	2,497	-643	3,237	
65602PP										
Project Planning - RD										
PM Project Management	A	67	9	101	50	151	160	9	271	
PP Project Planning General	A	100	0	50	0	50	40	-10	50	
QC Quality Control	A	100	0	22	0	22	24	2	22	
WP EPA Workplan	A	100	0	123	0	123	142	19	123	
ZZ General	A	0	0	0	0	0			3	
Activity Total		86	9	296	50	346	366	20	469	
Work Assignment Total		40	1,101	4,242	6,267	10,509	9,807	-702	10,599	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		---- AUTHORIZED ----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS		1,101	4,242	6,267	10,509	9,807	-702	
ALL TASKS			4,242	6,267	10,509			10,599

Projection: (Monthly/Cumulative)

	JAN92	FEB92	MAR92	APR92	MAY92	JUN92
	2,682	1,586	1,113	332	184	242
	6,924	8,510	9,623	9,955	10,139	10,381

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
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MILESTONE	----- WORKPLAN -----		---- DELIVERY ----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		12/05/91 P	30+	1
Prefinal/Final Design					
Draft O&M Manual	10/28/91		02/26/92 P	30+	2
Prefinal Design - GWT	11/20/91		03/11/92 P	30+	3
Prefinal Design - ISB	11/27/91		05/06/92 P	30+	4
Final Design - GWT	01/21/92		05/06/92 P	30+	5
Final Design - ISB	01/13/92		06/03/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 P		8
90 Percent Design Submittal	03/04/92		03/04/92 P		9
Draft & Final Submittal	04/01/92		04/01/92 P		10
Construction Schedule	04/13/92		04/13/92 P		11
Construction Cost Estimate	04/13/92		04/13/92 P		12
Draft O&M Manual	04/13/92		04/13/92 P		13
Final Bid Document of Design Support Submittals	04/24/92		04/24/92 P		14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/17/92 P	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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 NOTES:

MASTER PROJECT: GLO6500
 STATUS: REVISION REQUEST
 ALLOCATION: \$820.850
 AUTHORIZED BUDGET: \$817.360

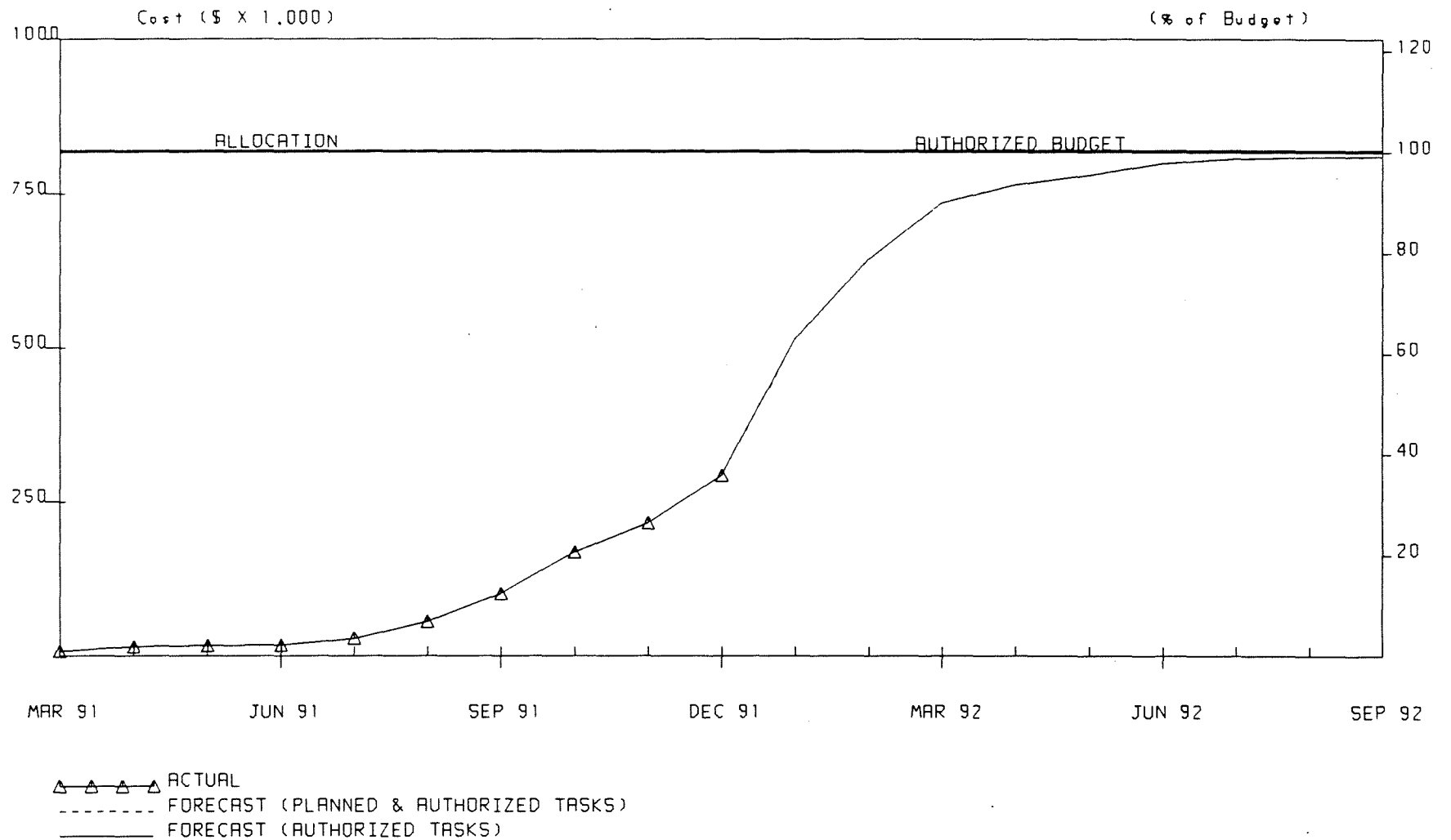
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 01/09/92
 RUN TIME: 11:04 AM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

December 1991



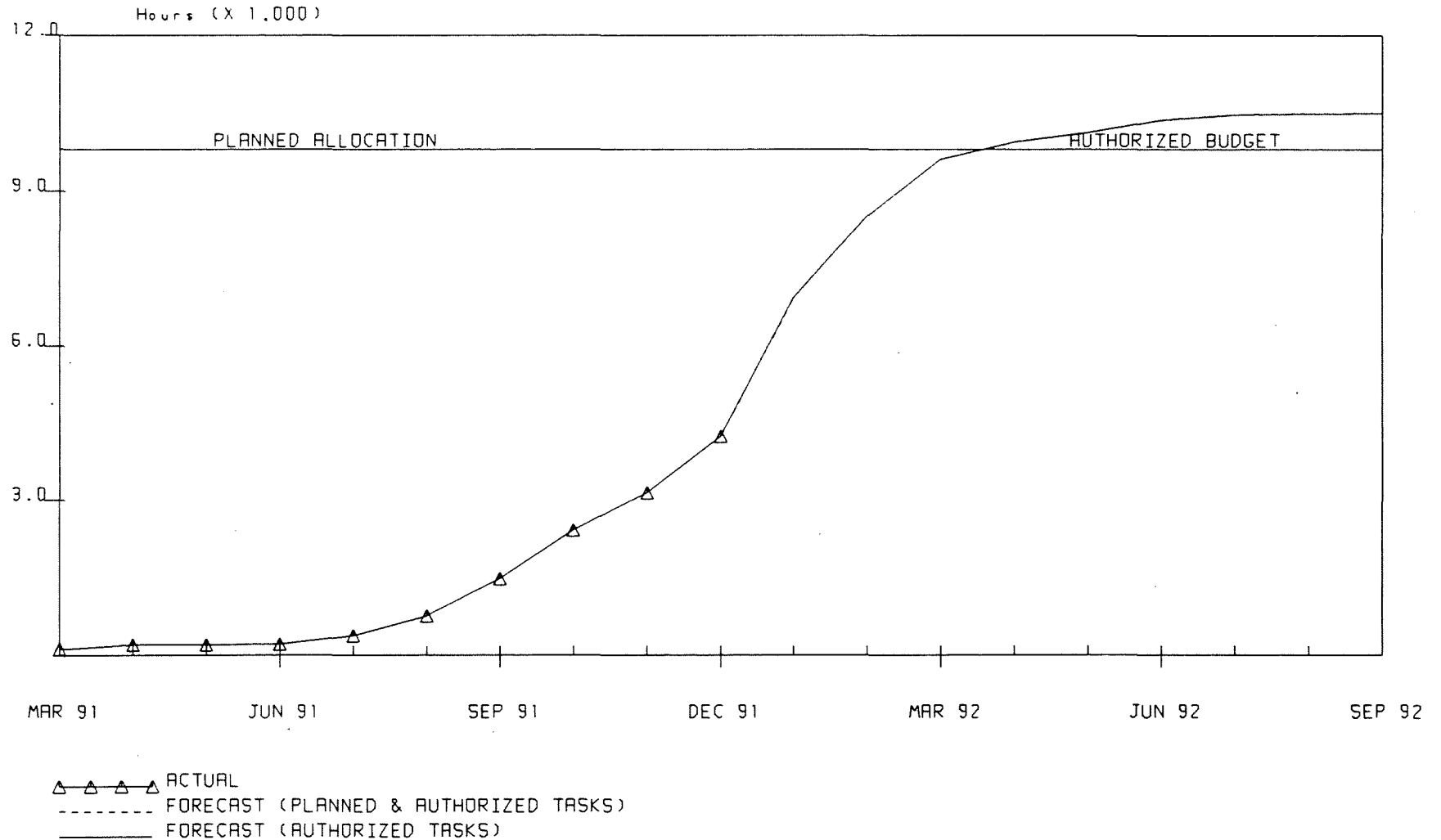
MASTER PROJECT: GLOF5600
STATUS: REVISION REQUEST
ALLOCATION: 9.807
AUTHORIZED BUDGET: 9.807

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 01/09/92
RUN TIME: 11:04 AM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

December 1991



Schmidt/Kozol

FEB 21 1992
BUREAU OF ENVIRONMENTAL
WASTE MANAGEMENT

ARCS V TECHNICAL STATUS REPORT
January 1992

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: January 31, 1992
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Substantial progress has been made on both the groundwater extraction/treatment system design and the landfill cap design. A number of issues requiring input from the WAM and WDNR have been discussed, addressed, and incorporated into the designs.

On January 3, field reconnaissance was conducted at the site to inventory the RI-derived waste, to evaluate the extent of landfill gas migration, and to evaluate the potential for bacterial fouling of groundwater extraction wells.

On January 27, the 60 percent Landfill Remedial Action Plans and Specifications were submitted to the U.S. EPA and WDNR for review.

Bid packages were submitted to qualified subcontractors to perform a geotechnical investigation of soil underlying the proposed location for the groundwater treatment process building and effluent outfall pipeline. A prebid meeting was held at the site on January 29. The work is scheduled to be performed on or about February 17.

On January 28 and 29, project staff from CH2M HILL surveyed the proposed treated effluent pipe route.

The in situ bioremediation bench scale test was completed. The preliminary results and conclusions were discussed with the WAM and WDNR during a conference call on January 24. The In Situ Biotreatment Predesign Report was submitted to the WAM on January 31.

On January 31, the Draft Groundwater Monitoring Plan was submitted on January 31 to the U.S. EPA and WDNR for review.

2. Problems Resolved

WPRR No. 3 was approved on January 24.

3. Problem Areas and Recommended Solutions

On January 15, the Town of Onalaska held a meeting and decided not to fund any acquisition of property adjacent to the landfill. This will mean that permanent easements will be required for portions of the landfill cap, passive gas venting trenches, and the treated groundwater outfall piping. In addition, temporary easements may be required during the construction phase for access and staging. The willingness of property owners to agree to these easement needs is uncertain. In order to avoid unnecessary delay in project implementation, the WAM has initiated the pursuit of the easements.

The WDNR has requested that the groundwater treatment system reduce ammonia levels in treated effluent to less than the limits established by federal guidelines. A technical memorandum will be prepared that describes anticipated ammonia removals and options to reduce ammonia in the effluent. The technical memorandum will be reviewed by the WDNR to determine if the system meets effluent limits.

The WDNR has indicated they may require chronic whole effluent bioassay toxicity testing of effluent from the groundwater treatment system. Until recently, the WDNR had indicated that only **acute** testing would be required. If treated effluent fails the chronic testing, then some operational modifications or process modifications may be required.

Meeting the schedule for starting landfill cap construction by this fall depends on relatively rapid review periods by the U.S. EPA and WDNR. Review periods lasting 3 to 4 weeks could delay construction until 1993.

4. Deliverables Submitted

The 60 percent complete Landfill Cap Remedial Action Plans and Specifications were submitted on January 27.

The In Situ Biotreatment Predesign Report was submitted on January 31.

The Draft Groundwater Monitoring Plan was submitted on January 31.

5. Activities Planned Next Reporting Period

Design of the landfill cap and groundwater extraction and treatment system will continue.

Geotechnical investigation of the soil underlying the proposed process building and effluent outfall pipeline will be performed.

6. Key Personnel Changes

None.

7. Subcontracting

None.

8. Travel

On January 28, several CH2M HILL design team members visited the site to survey the proposed outfall location. A prebid meeting with subcontractors for the geotechnical investigation was also performed during the visit.

9. Laboratories

Bench scale testing of the in situ biotreatment process, conducted at CH2M HILL's Bioassay Laboratory, was completed this month.

10. Project Performance

The contractor has kept the WAM informed of project performance on a weekly (or more frequent) basis, and has transmitted memorandums to the WAM summarizing critical design issues requiring attention.

Project work has proceeded on schedule without major impediments.

GLT225/038.51

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W6-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 RUN TIME: 04:52 PM
 AS OF: 01/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS									
Design Support Activities									
PM Project Management	A	42	1,459	2,260	0	3,098	5,358	4,948	-409
QC Quality Control	A	49	2,929	2,929	0	2,997	5,926	5,107	-819
ZZ General	A	100	381	381	0	0	381		-380
MG Meetings (External)	A	0	0	0	0	10,147	10,147	10,221	74
GM Groundwater Monitoring Plan	A	44	5,391	10,388	0	13,121	23,509	29,355	5,846
MS Miscellaneous Support	A	0	0	0	0	5,378	5,378	5,457	78
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		33	10,160	17,017	0	34,741	51,758	56,933	5,175
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	2	265	396	0	19,764	20,160	20,556	396
EC Estimates - Cost	A	6	791	791	0	12,541	13,332	15,185	1,852
PM Project Management	A	73	8,555	15,595	0	5,773	21,368	14,645	-6,723
QC Quality Control	A	5	0	733	0	12,920	13,653	13,513	-140
ZZ General	A	100	-125	-1	0	0	-1		1
GX Groundwater Extraction Desig	A	37	7,029	9,198	0	15,533	24,731	23,907	-824
GT Groundwater Treatment Design	A	64	67,931	84,662	0	48,516	133,178	82,358	-50,820
MG Meetings (External)	A	0	0	0	0	7,014	7,014	7,397	383
ML Manuals - Operations and Mai	A	4	218	782	0	18,098	18,880	18,865	-15
IT Insitu Treatment Design	A	0	0	0	0	42,466	42,466	42,863	397
SL Construction Schedule Develo	A	6	1,284	1,474	0	25,285	26,759	25,836	-922
Activity Total		35	85,949	113,631	0	207,910	321,541	265,125	-56,415
65602LC									
LANDFILL CAP DESIGN									
ZZ General	A	100	-461	-5	0	0	-5		5
WP EPA Workplan	A	100	0	4,841	0	0	4,841	6,877	2,035
QC Quality Control	A	20	2,851	2,851	0	11,605	14,456	14,743	286
PM Project Management	A	50	4,380	8,237	0	8,087	16,324	14,689	-1,635
PP Project Planning General	A	100	0	511	0	0	511	2,558	2,046
ED Existing Data Review	A	100	1,533	2,313	0	0	2,313	2,324	10
C1 Civil Engineering Design - G	A	100	2,883	16,606	0	0	16,606	15,866	-739
G1 Predesign - Geotechnical	A	99	1,957	7,663	0	56	7,719	7,133	-585
P1 Plans and Specifications - P	A	95	14,549	19,560	0	1,000	20,560	14,977	-5,582
R8 Report - 1st Draft Predesign	A	93	951	5,744	0	415	6,159	6,897	737
C3 Civil Eng - Intermediate Des	A	0	0	0	0	25	25	4,492	4,466
G3 Geotechnical Eng - Intermedi	A	100	1,514	1,514	0	0	1,514	5,158	3,643
P2 Plans and Specifications - I	A	28	724	724	0	1,824	2,548	13,705	11,157
C4 Civil Eng - Final Design	A	0	0	0	0	0	0	4,082	4,082
G4 Geotechnical Eng - Final Des	A	0	0	0	0	3,998	3,998	4,036	37
P3 Plans and Specifications - F	A	0	0	0	0	18,632	18,632	18,722	89
EC Estimates - Cost	A	0	0	0	0	891	891	3,074	2,182

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS	EAC	ACTUAL		ESTIMATED		AUTHORIZED BUDGET	VARIANCE	WP/WPRR SUBMITTED
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE			
SL Construction Schedule Develo	A	0	0	0	0	488	488	5,076	4,588
QS QAPP/SSP/FSP	A	0	0	0	0	0		7,954	7,954
ML Manuals - Operations and Mai	A	0	0	0	0	5,108	5,108	6,526	1,417
HS Health and Safety	A	0	0	0	0	0		4,005	4,005
MG Meetings (External)	A	29	0	996	0	2,416	3,412	3,452	40
MS Miscellaneous Support	A	25	1,526	2,362	0	6,966	9,328	7,783	-1,544
Activity Total		55	32,408	73,918	0	61,511	135,429	174,128	38,694
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	0	8,677	8,677	8,878	200
Activity Total		0	0	0	0	8,677	8,677	8,878	200
65602PD									
Preliminary Design									
EC Estimates - Cost	A	100	0	2,450	0	0	2,450	7,041	4,590
PM Project Management	A	100	5	10,822	0	0	10,822	10,213	-608
QC Quality Control	A	100	464	9,409	0	0	9,409	5,851	-3,558
QS QAPP/SSP/FSP	A	100	0	11,341	0	0	11,341	16,629	5,288
HS Health and Safety	A	100	0	406	0	0	406	3,625	3,218
R7 Report - Predesign	A	100	6,471	21,743	0	0	21,743	17,989	-3,754
H6 Haz Waste Design - Advanced	A	97	19,435	93,936	0	3,179	97,115	77,618	-19,497
H1 Haz Waste Design - Process E	A	100	3,376	56,549	0	0	56,549	50,635	-5,914
MG Meetings (External)	A	59	0	3,380	0	2,361	5,741	5,763	21
C1 Civil Engineering Design - G	A	33	290	1,691	0	3,401	5,092	9,311	4,218
ZZ General	A	100	1,308	3,012	0	0	3,012		-3,012
Activity Total		96	31,347	214,740	0	8,941	223,681	204,674	-19,008
65602PP									
Project Planning - RD									
PM Project Management	A	77	1,133	11,699	0	3,587	15,286	13,961	-1,324
PP Project Planning General	A	100	0	3,869	0	0	3,869	2,917	-952
QC Quality Control	A	100	0	1,611	0	0	1,611	1,879	268
WP EPA Workplan	A	100	0	9,385	0	0	9,385	10,272	886
ZZ General	A	100	281	281	0	0	281		-280
Activity Total		88	1,413	26,844	0	3,587	30,431	29,029	-1,402
Work Assignment Total		58	161,278	446,150	0	325,367	771,517	738,767	-32,756

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 820,852

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	165,940	459,344					
AUTH. TASKS w/EST. FULL FEE	179,386	496,764	361,089	857,854	820,852	-37,001	
ALL TASKS w/EST. FULL FEE		496,764	361,089	857,854			861,350

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

FEB92	MAR92	APR92	MAY92	JUN92	JUL92
153,066	118,772	46,902	14,315	18,008	7,353
649,830	768,602	815,504	829,819	847,827	855,180
			<Overrun>		

Direct Labor	51,486	Indirects	86,494
Equipment	631	Base Fee	4,662
ODC	16,783	Award Fee	0
Subcontracts	14	Travel	0
Laboratory Service	5,870	TOTAL	165,940

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,100

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	A	44	20	32	40	72	64	-8
QC Quality Control	A	49	35	35	36	71	64	-7
ZZ General	A	100	6	6	0	6		-6
MG Meetings (External)	A	0	0	0	140	140	140	
GM Groundwater Monitoring Plan	A	46	83	170	199	369	416	47
MS Miscellaneous Support	A	0	0	0	80	80	80	
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		34	144	258	495	753	792	39
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	A	1	2	4	298	302	300	-2
EC Estimates - Cost	A	7	15	15	188	203	224	21
PM Project Management	A	67	58	155	75	230	196	-34
QC Quality Control	A	6	0	9	151	160	160	
ZZ General	A	0	-1	0	0	0		
GX Groundwater Extraction Desig	A	40	112	145	214	359	328	-31
GT Groundwater Treatment Design	A	66	1,158	1,472	761	2,233	1,160	-1,073
MG Meetings (External)	A	0	0	0	100	100	100	
ML Manuals - Operations and Mai	A	5	3	13	262	275	272	-3
IT Insitu Treatment Design	A	0	0	0	584	584	584	
SL Construction Schedule Develo	A	7	24	28	378	406	382	-24
Activity Total		38	1,371	1,841	3,011	4,852	3,706	-1,146
65602LC								
LANDFILL CAP DESIGN								
ZZ General	A	0	-11	0	0	0		
WP EPA Workplan	A	100	0	80	0	80	88	8
QC Quality Control	A	23	36	36	120	156	156	
PM Project Management	A	57	54	116	88	204	178	-26
PP Project Planning General	A	100	0	9	0	9	30	21
ED Existing Data Review	A	100	25	39	0	39	36	-3
C1 Civil Engineering Design - G	A	100	43	254	0	254	232	-22
G1 Predesign - Geotechnical	A	100	32	132	0	132	102	-30
P1 Plans and Specifications - P	A	100	237	351	0	351	210	-141
R8 Report - 1st Draft Predesign	A	100	16	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	A	0	0	0	0	0	72	72
G3 Geotechnical Eng - Intermedi	A	100	28	28	0	28	72	44
P2 Plans and Specifications - I	A	0	0	0	12	12	192	180
C4 Civil Eng - Final Design	A	0	0	0	0	0	56	56
G4 Geotechnical Eng - Final Des	A	0	0	0	56	56	56	
P3 Plans and Specifications - F	A	0	0	0	240	240	240	
EC Estimates - Cost	A	0	0	0	8	8	48	40

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,100

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
SL Construction Schedule Develo	A	0	0	0	4	4	74	70	
QS QAPP/SSP/FSP	A	0	0	0	0	0	108	108	
ML Manuals - Operations and Mai	A	0	0	0	70	70	88	18	
HS Health and Safety	A	0	0	0	0	0	40	40	
MG Meetings (External)	A	33	0	16	32	48	48		
MS Miscellaneous Support	A	34	26	41	81	122	96	-26	
Activity Total		63	486	1,201	711	1,912	2,306	394	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	140	140	140		
Activity Total		0	0	0	140	140	140		
65602PD									
Preliminary Design									
EC Estimates - Cost	A	100	0	47	0	47	120	73	
PM Project Management	A	100	0	148	0	148	148		
QC Quality Control	A	100	6	122	0	122	84	-38	
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	
HS Health and Safety	A	100	0	6	0	6	48	42	
R7 Report - Predesign	A	100	74	307	0	307	264	-43	
H6 Haz Waste Design - Advanced	A	97	196	1,232	40	1,272	1,108	-164	
H1 Haz Waste Design - Process E	A	100	47	855	0	855	638	-217	
MG Meetings (External)	A	64	0	51	29	80	80		
C1 Civil Engineering Design - G	A	29	2	20	48	68	60	-8	
ZZ General	A	100	0	27	0	27		-27	
Activity Total		96	325	2,972	117	3,089	2,790	-299	
65602PP									
Project Planning - RD									
PM Project Management	A	71	14	115	47	162	160	-2	
PP Project Planning General	A	100	0	50	0	50	40	-10	
QC Quality Control	A	100	0	22	0	22	24	2	
WP EPA Workplan	A	100	0	123	0	123	142	19	
Activity Total		87	14	310	47	357	366	9	
Work Assignment Total		59	2,340	6,582	4,521	11,103	10,100	-1,003	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,100

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS	2,340	6,582	4,521	11,103	10,100	-1,003	
ALL TASKS		6,582	4,521	11,103			10,599

Projection: (Monthly/Cumulative)

	FEB92	MAR92	APR92	MAY92	JUN92	JUL92
	1,930	1,509	561	174	228	94
	8,512	10,021	10,582	10,756	10,984	11,078

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
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MILESTONE	----- WORKPLAN -----		---- DELIVERY ----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Draft O&M Manual	10/28/91		02/26/92 P	30+	2
Prefinal Design - GWT	11/20/91		03/11/92 P	30+	3
Prefinal Design - ISB	11/27/91		03/11/92 P	30+	4
Final Design - ISB	01/13/92		05/06/92 P	30+	5
Final Design - GWT	01/21/92		05/06/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/04/92 P		9
Draft & Final Submittal	04/01/92		04/01/92 P		10
Construction Schedule	04/13/92		04/13/92 P		11
Construction Cost Estimate	04/13/92		04/13/92 P		12
Draft O&M Manual	04/13/92		04/13/92 P		13
Final Bid Document of Design Support Submittals	04/24/92		04/24/92 P		14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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NOTES:

MASTER PROJECT: GLOFAR
 STATUS: PROJECT REQUEST
 ALLOCATION: \$820.850
 AUTHORIZED BUDGET: \$820.850

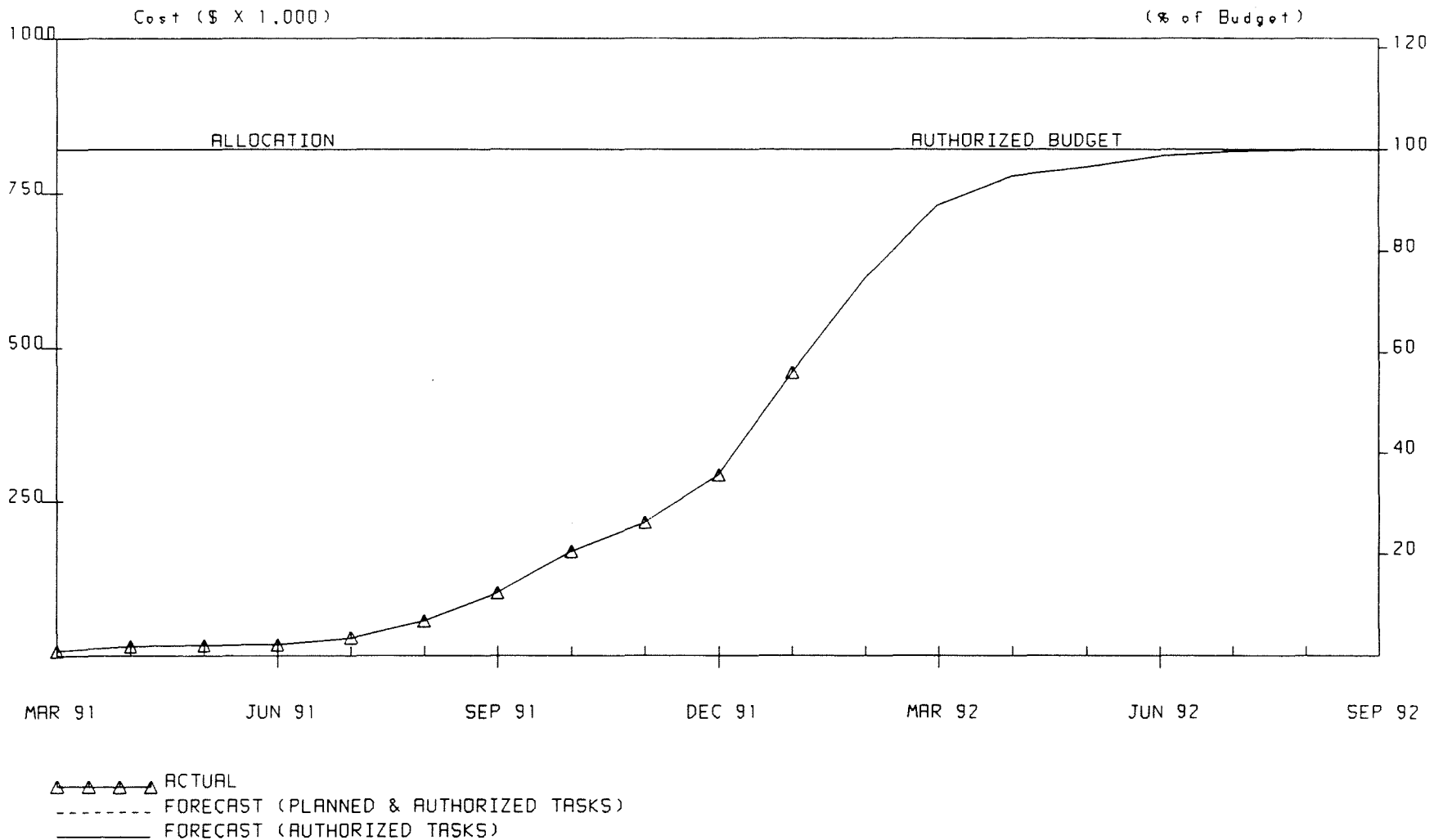
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NLS

REPORT: PRJ091
 RUN DATE: 01/12/92
 RUN TIME: 02:43 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

January 1992



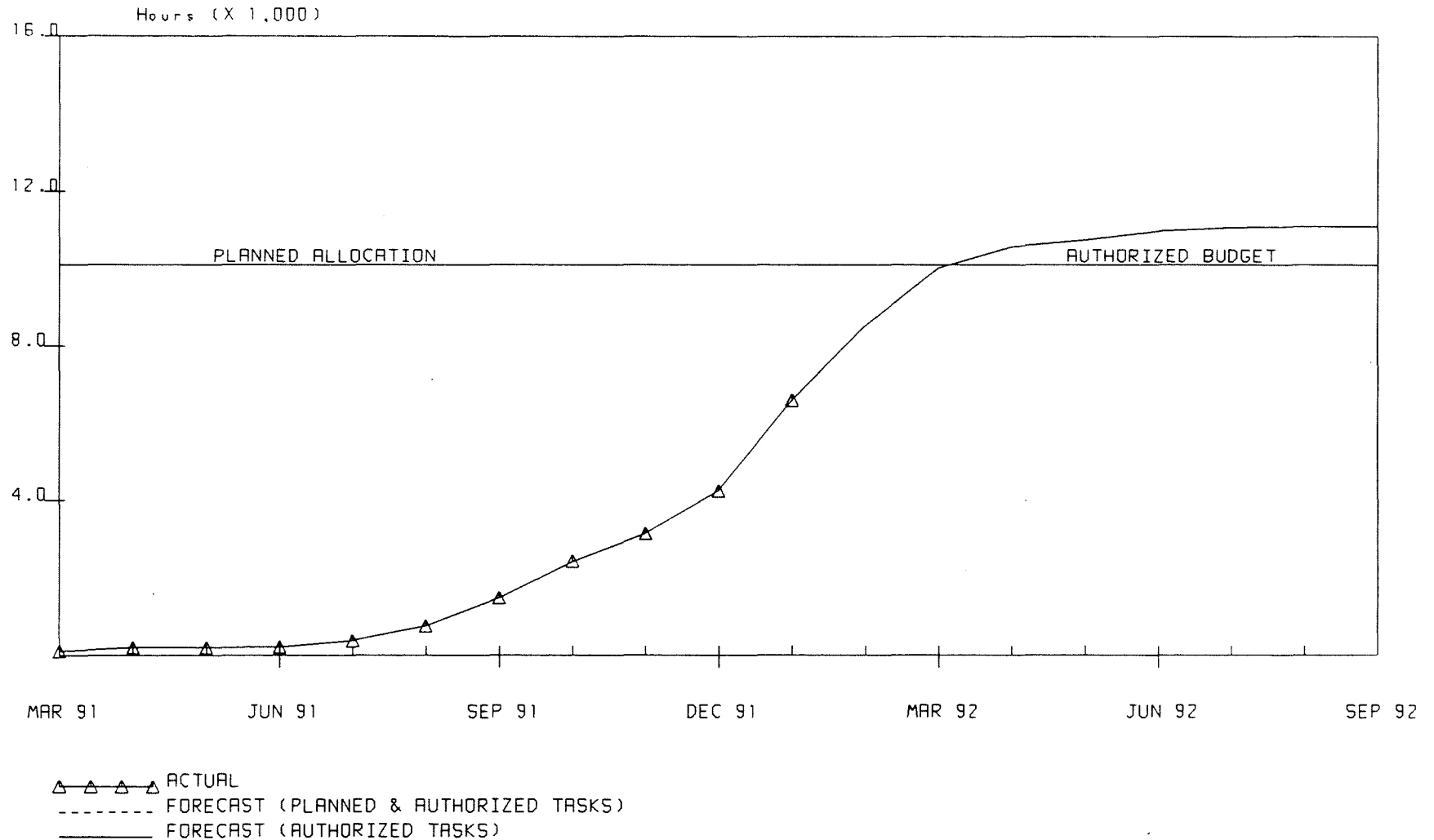
MASTER PROJECT: 68-09549
STATUS: REQUEST
ALLOCATION: 10.100
AUTHORIZED BUDGET: 10.100

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-SNL5

REPORT: PRJ091
RUN DATE: 02/12/92
RUN TIME: 02:43 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

January 1992



652-11170
Schmidt/Kozak

ARCS V TECHNICAL STATUS REPORT
February 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

DATE PREPARED: February 28, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Significant progress has been made on both the groundwater extraction/treatment system design and the landfill cap design.

On February 3, the U.S. EPA WAM and WDNR SM met with CH2M HILL in CH2M HILL's Milwaukee office to discuss the final results of the in situ bioremediation column testing. The progress of the groundwater extraction and treatment system was also reviewed.

On February 10, WPRR No. 3 was approved. This WPRR requested additional funding to complete the in situ biotreatability test.

On February 17, a geotechnical investigation was performed to verify physical properties of the soil underlying the proposed location for the groundwater treatment process building and to determine soil conditions along the proposed effluent pipe route.

U.S. EPA and WDNR review of the 60 percent landfill cap design was completed and a conference call was held on February 13 to discuss EPA and WDNR preliminary comments. Following the conference call, it was agreed that a follow-up meeting was not necessary.

The In Situ Bioremediation Predesign Report and Draft Groundwater Monitoring Plan underwent review during this reporting period.

On February 19, the WAM was notified that the project was 75 percent spent. Work load forecasting indicates that the project will be completed within budget.

On February 10, CH2M HILL responded to the WDNR's concerns regarding ammonia limits for discharge to the Bullet Chute, and the capability of the treatment process of meeting these limits.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

A preliminary construction schedule indicates that a work assignment for the groundwater treatment remedial action should be issued in April in order to maintain the schedule. It may be possible to meet the schedule for a May issuance of the work assignment, if the work assignment allows for some preliminary tasks (e.g., bid advertisement) to be completed prior to work plan approval.

The WDNR's water quality management division has indicated they may wish to see changes made to the treatment process to accommodate ammonia removal. This follows a series of correspondence with the WDNR on this issue. Considering the limited information available regarding influent ammonia concentrations, it is questionable whether or not ammonia removal would be required to meet proposed effluent limits.

Budget forecasting indicates that some subtasks will exceed the budgets originally estimated in the work plan, while some will be less than originally estimated. CH2M HILL will address these differences with the WAM during the next reporting period.

CH2M HILL has requested that the Corps of Engineers and WDNR comment on permitting and construction requirements for the proposed outfall. Comments have not yet been received from these agencies.

Comments on the In Situ Bioremediation Predesign Report and Groundwater Monitoring Plan are needed as soon as possible to meet the proposed deadline for submittal of the Prefinal Design.

4. Deliverables Submitted

No deliverables were submitted this reporting period.

5. Activities Planned Next Reporting Period

The Prefinal Groundwater Extraction and Treatment Design will be submitted on March 24. This will include a construction cost estimate, a construction schedule, a draft operation and maintenance manual, a revised groundwater monitoring plan, and a draft construction quality assurance plan.

The 90 percent landfill cap design will be submitted on March 27.

6. Key Personnel Changes

None.

7. Subcontractor Services

Environmental and Foundation Drilling of Waunakee, Wisconsin was hired to perform the geotechnical investigation in the area of the process building.

8. Travel

On February 13, a CH2M HILL project team member visited the site to supervise the subcontractor performing the geotechnical investigation.

9. Laboratories

Although bench scale testing of the in situ biotreatment column study was completed this month, some laboratory charges are still coming in.

10. Project Performance

Prefinal designs of the landfill cap and groundwater treatment systems have proceeded on schedule. Substantial progress has been made on both projects.

While the level of effort involved in preparing the designs has been greater than originally anticipated, CH2M HILL has strived to incorporate concerns of the U.S. EPA and WDNR and maintain the overall project budget within the approved budget limits.

CH2M HILL has endeavored to keep the WAM abreast of proposed design components in order to minimize review time and revisions to deliverables.

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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TOTAL COST

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT	----- TO DATE -----	----- UNRECORDED -----	----- ESTIMATED ----- TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
65602DS										
Design Support Activities										
PM Project Management	A	62	693	2,952	0	1,824	4,776	4,948	171	
QC Quality Control	A	79	0	2,929	0	798	3,727	5,107	1,379	
ZZ General	A	100	690	1,071	0	0	1,071		-1,070	
MG Meetings (External)	A	0	0	0	0	6,107	6,107	10,221	4,114	
GM Groundwater Monitoring Plan	A	50	3,598	13,985	0	14,152	28,137	29,355	1,217	
MS Miscellaneous Support	A	0	0	0	0	5,378	5,378	5,457	78	
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785	
Activity Total		44	4,980	21,997	0	28,259	50,256	56,933	6,674	
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	A	45	7,477	7,872	0	9,539	17,411	20,556	3,144	
EC Estimates - Cost	A	31	508	1,299	0	2,918	4,217	15,185	10,967	
PM Project Management	A	82	1,395	16,990	0	3,750	20,740	14,645	-6,095	
QC Quality Control	A	42	2,881	3,614	0	5,058	8,672	13,513	4,840	
ZZ General	A	100	3,845	3,844	0	0	3,844		-3,844	
GX Groundwater Extraction Desig	A	86	5,339	14,537	0	2,402	16,939	23,907	6,967	
GT Groundwater Treatment Design	A	97	91,658	176,320	0	5,471	181,791	82,358	-99,433	
MG Meetings (External)	A	25	1,140	1,140	0	3,484	4,624	7,397	2,772	
ML Manuals - Operations and Mai	A	27	1,218	2,000	0	5,397	7,397	18,865	11,467	
IT Insitu Treatment Design	A	0	0	0	0	19,881	19,881	42,863	22,982	
SL Construction Schedule Develo	A	62	7,763	9,237	0	5,604	14,841	25,836	10,995	
Activity Total		79	123,224	236,855	0	63,504	300,359	265,125	-35,238	
65602LC										
LANDFILL CAP DESIGN										
ZZ General	A	100	233	227	0	0	227		-227	
WP EPA Workplan	A	100	0	4,841	0	0	4,841	6,877	2,035	
QC Quality Control	A	54	6,551	9,402	0	8,119	17,521	14,743	-2,778	
PM Project Management	A	78	2,666	10,904	0	3,027	13,931	14,689	758	
PP Project Planning General	A	100	0	511	0	0	511	2,558	2,046	
ED Existing Data Review	A	100	0	2,313	0	0	2,313	2,324	10	
C1 Civil Engineering Design - G	A	100	261	16,867	0	0	16,867	15,866	-1,000	
G1 Predesign - Geotechnical	A	100	710	8,373	0	0	8,373	7,133	-1,239	
P1 Plans and Specifications - P	A	100	2,101	21,660	0	0	21,660	14,977	-6,683	
R8 Report - 1st Draft Predesign	A	100	14	5,758	0	0	5,758	6,897	1,138	
C3 Civil Eng - Intermediate Des	A	0	0	0	0	4,349	4,349	4,492	142	
G3 Geotechnical Eng - Intermedi	A	56	615	2,130	0	1,695	3,825	5,158	1,333	
P2 Plans and Specifications - I	A	21	688	1,412	0	5,243	6,655	13,705	7,049	
C4 Civil Eng - Final Design	A	0	0	0	0	4,048	4,048	4,082	34	
G4 Geotechnical Eng - Final Des	A	0	0	0	0	0	0	4,036	4,035	
P3 Plans and Specifications - F	A	0	0	0	0	15,819	15,819	18,722	2,902	
EC Estimates - Cost	A	0	0	0	0	2,304	2,304	3,074	769	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
SL Construction Schedule Develo	A	4	185	185	0	4,233	4,418	5,076	658	
QS QAPP/SSP/FSP	A	100	5,177	5,177	0	0	5,177	7,954	2,777	
ML Manuals - Operations and Mai	A	27	431	431	0	1,166	1,597	6,526	4,929	
HS Health and Safety	A	28	1,541	1,541	0	3,997	5,538	4,005	-1,533	
MG Meetings (External)	A	71	1,817	2,814	0	1,172	3,986	3,452	-533	
MS Miscellaneous Support	A	100	0	2,362	0	0	2,362	7,783	5,421	
Activity Total		64	22,989	96,907	0	55,172	152,079	174,128	22,043	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	0	8,677	8,677	8,878	200	
Activity Total		0	0	0	0	8,677	8,677	8,878	200	
65602PD										
Preliminary Design										
EC Estimates - Cost	A	100	0	2,450	0	0	2,450	7,041	4,590	
PM Project Management	A	100	0	10,822	0	0	10,822	10,213	-608	
QC Quality Control	A	100	0	9,409	0	0	9,409	5,851	-3,558	
QS QAPP/SSP/FSP	A	100	0	11,341	0	0	11,341	16,629	5,288	
HS Health and Safety	A	38	0	406	0	651	1,057	3,625	2,567	
R7 Report - Predesign	A	100	350	22,093	0	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	A	85	7,107	101,043	0	17,294	118,337	114,066	-4,270	
H1 Haz Waste Design - Process E	A	100	-3,370	53,179	0	0	53,179	50,635	-2,543	
MG Meetings (External)	A	100	0	3,380	0	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	A	29	387	2,079	0	5,039	7,118	9,311	2,192	
ZZ General	A	100	4,569	7,581	0	0	7,581		-7,581	
Activity Total		91	9,043	223,783	0	22,984	246,767	241,123	-5,644	
65602PP										
Project Planning - RD										
PM Project Management	A	90	1,739	13,437	0	1,502	14,939	13,961	-978	
PP Project Planning General	A	100	0	3,869	0	0	3,869	2,917	-952	
QC Quality Control	A	100	0	1,611	0	0	1,611	1,879	268	
WP EPA Workplan	A	100	0	9,385	0	0	9,385	10,272	886	
ZZ General	A	100	-227	54	0	0	54		-53	
Activity Total		95	1,512	28,356	0	1,502	29,858	29,029	-829	
Work Assignment Total		77	161,748	607,898	0	180,098	787,996	775,215	-12,794	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS w/INVOICED FEE	172,061	631,405						
AUTH. TASKS w/EST. FULL FEE	179,492	676,257	198,779	875,035	861,350	-13,685		
ALL TASKS w/EST. FULL FEE		676,257	198,779	875,035				0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

MAR92	APR92	MAY92	JUN92	JUL92	AUG92
138,248	41,729	2,198	7,409	6,982	2,112
814,505	856,234	858,432	865,841	872,823	874,935
			<Overrun>		

Direct Labor	51,037	Indirects	85,741
Equipment	848	Base Fee	4,792
ODC	19,581	Award Fee	5,521
Subcontracts	316	Travel	2,264
Laboratory Service	1,960	TOTAL	172,061

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT	----- TO DATE -----	----- ESTIMATED ----- TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	A	63	9	41	24	65	64	-1	
QC Quality Control	A	81	0	35	8	43	64	21	
ZZ General	A	100	8	14	0	14		-14	
MG Meetings (External)	A	0	0	0	82	82	140	58	
GM Groundwater Monitoring Plan	A	50	41	211	214	425	416	-9	
MS Miscellaneous Support	A	0	0	0	80	80			
LS Landfill Cap Support	C	100	0	15	0	15	28	13	
Activity Total		44	58	316	408	724	792	68	
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	38	44	48	80	128	300	172	
EC Estimates - Cost	A	38	9	24	40	64	224	160	
PM Project Management	A	84	68	223	44	267	196	-71	
QC Quality Control	A	48	38	47	51	98	160	62	
ZZ General	A	100	42	42	0	42		-42	
GX Groundwater Extraction Desig	A	89	78	223	28	251	328	77	
GT Groundwater Treatment Design	A	97	1,356	2,828	76	2,904	1,160	-1,744	
MG Meetings (External)	A	26	17	17	48	65	100	35	
ML Manuals - Operations and Mai	A	31	19	32	72	104	272	168	
IT Insitu Treatment Design	A	0	0	0	324	324	584	260	
SL Construction Schedule Develo	A	66	99	127	64	191	382	191	
Activity Total		81	1,770	3,611	827	4,438	3,706	-732	
65602LC									
LANDFILL CAP DESIGN									
ZZ General	A	100	4	4	0	4		-4	
WP EPA Workplan	A	100	0	80	0	80	88	8	
QC Quality Control	A	58	82	118	84	202	156	-46	
PM Project Management	A	83	35	151	30	181	178	-3	
PP Project Planning General	A	100	0	9	0	9	30	21	
ED Existing Data Review	A	100	0	39	0	39	36	-3	
C1 Civil Engineering Design - G	A	100	0	254	0	254	232	-22	
G1 Predesign - Geotechnical	A	100	0	132	0	132	102	-30	
P1 Plans and Specifications - P	A	100	12	363	0	363	210	-153	
R8 Report - 1st Draft Predesign	A	100	0	99	0	99	84	-15	
C3 Civil Eng - Intermediate Des	A	0	0	0	72	72	72		
G3 Geotechnical Eng - Intermedi	A	66	10	38	20	58	72	14	
P2 Plans and Specifications - I	A	13	6	6	40	46	192	146	
C4 Civil Eng - Final Design	A	0	0	0	56	56	56		
G4 Geotechnical Eng - Final Des	A	0	0	0	0	0	56	56	
P3 Plans and Specifications - F	A	0	0	0	200	200	240	40	
EC Estimates - Cost	A	0	0	0	40	40	48	8	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
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 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
SL Construction Schedule Develo	A	4	3	3	66	69	74	5	
QS QAPP/SSP/FSP	A	100	78	78	0	78	108	30	
ML Manuals - Operations and Mai	A	28	7	7	18	25	88	63	
HS Health and Safety	A	38	24	24	40	64	40	-24	
MG Meetings (External)	A	74	30	46	16	62	48	-14	
MS Miscellaneous Support	A	100	0	41	0	41	96	55	
Activity Total		69	291	1,492	682	2,174	2,306	132	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	140	140	140		
Activity Total		0	0	0	140	140	140		
65602PD									
Preliminary Design									
EC Estimates - Cost	A	100	0	47	0	47	120	73	
PM Project Management	A	100	0	148	0	148	148		
QC Quality Control	A	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	
HS Health and Safety	A	50	0	6	6	12	48	36	
R7 Report - Predesign	A	100	4	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	A	85	67	1,299	238	1,537	1,575	38	
H1 Haz Waste Design - Process E	A	100	-55	800	0	800	638	-162	
MG Meetings (External)	A	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	A	100	6	26	0	26	60	34	
ZZ General	A	100	95	122	0	122		-122	
Activity Total		93	117	3,089	244	3,333	3,257	-76	
65602PP									
Project Planning - RD									
PM Project Management	A	87	16	131	19	150	192	42	
PP Project Planning General	A	100	0	50	0	50	40	-10	
QC Quality Control	A	100	0	22	0	22	24	2	
WP EPA Workplan	A	100	0	123	0	123	142	19	
ZZ General	A	100	1	1	0	1		-1	
Activity Total		95	17	327	19	346	398	52	
Work Assignment Total		79	2,253	8,835	2,320	11,155	10,599	-556	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 144
 RUN DATE: 03/11/92
 RUN TIME: 12:39 PM
 AS OF: 02/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS		2,253	8,835	2,320	11,155	10,599	-556	
ALL TASKS			8,835	2,320	11,155			0

Projection: (Monthly/Cumulative)

	MAR92	APR92	MAY92	JUN92	JUL92	AUG92
	1,603	503	14	92	89	19
	10,438	10,941	10,955	11,047	11,136	11,155

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 03/11/92
 RUN TIME: 12:34
 AS OF: 02/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----			
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE	
Design Support Activities						
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1	
Prefinal/Final Design						
Draft O&M Manual	10/28/91		03/20/92 P	30+	2	
Prefinal Design - GWT	11/20/91		03/20/92 P	30+	3	
Prefinal Design - ISB	11/27/91		03/20/92 P	30+	4	
Final Design - ISB	01/13/92		05/13/92 P	30+	5	
Final Design - GWT	01/21/92		05/13/92 P	30+	6	
LANDFILL CAP DESIGN						
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7	
60 Percent Design Submittal	01/28/92		01/28/92 A		8	
90 Percent Design Submittal	03/04/92		03/25/92 P	21	9	
Construction Schedule	04/13/92		04/13/92 P		10	
Construction Cost Estimate	04/13/92		04/13/92 P		11	
Draft O&M Manual	04/13/92		04/13/92 P		12	
Draft & Final Submittal	04/01/92		04/29/92 P	28	13	
Final Bid Document of Design Support Submittals	04/24/92		05/27/92 P	30+	14	
Preliminary Design						
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15	
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16	
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17	
Project Planning - RD						
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18	
Submit Final Work Plan	04/17/91		04/17/91 A		19	
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20	
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21	

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NOTES:

MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$861.350
 AUTHORIZED BUDGET: \$861.350

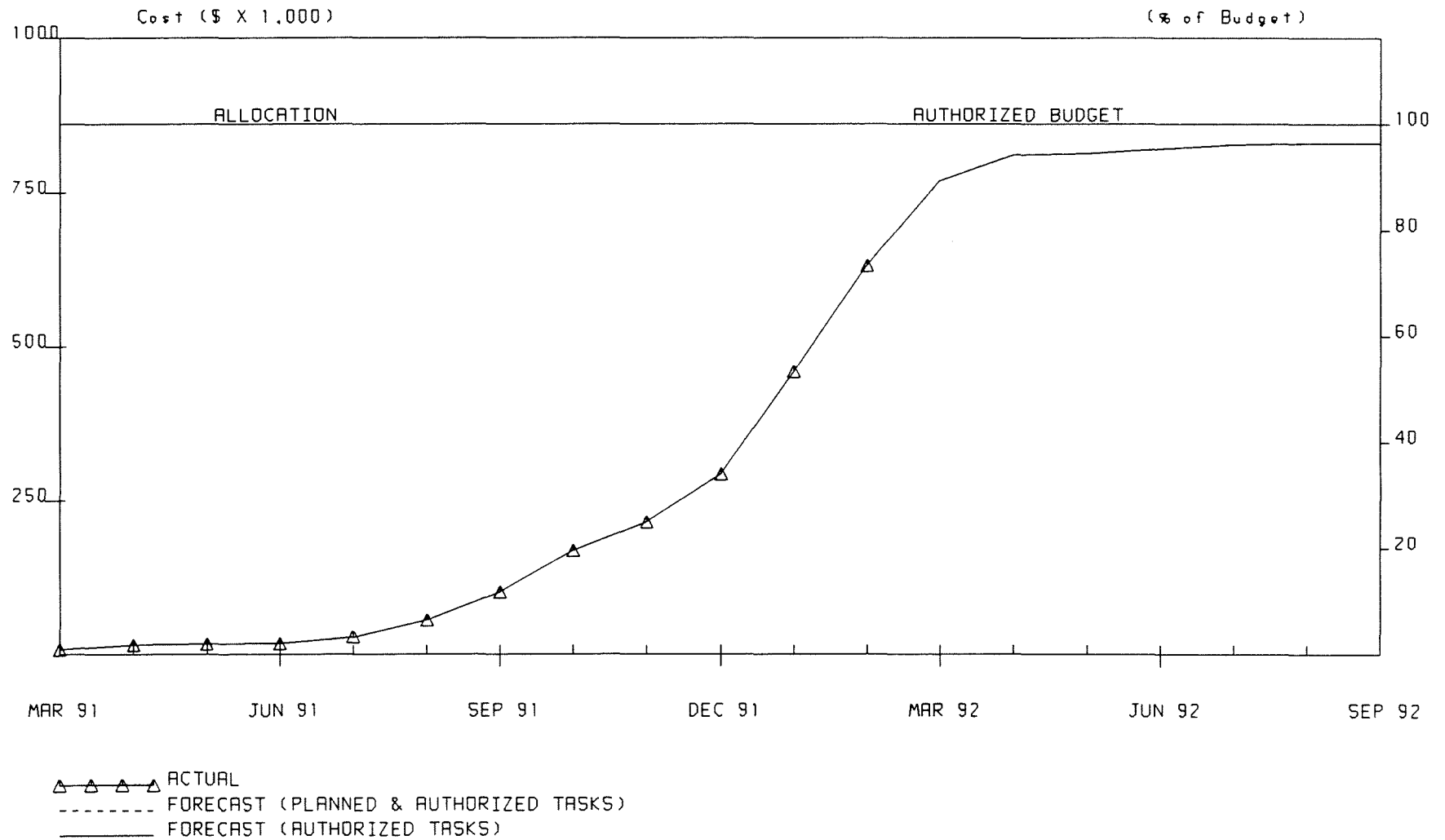
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 03/11/92
 RUN TIME: 11:16 AM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

February 1992



MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 10.599
AUTHORIZED BUDGET: 10.599

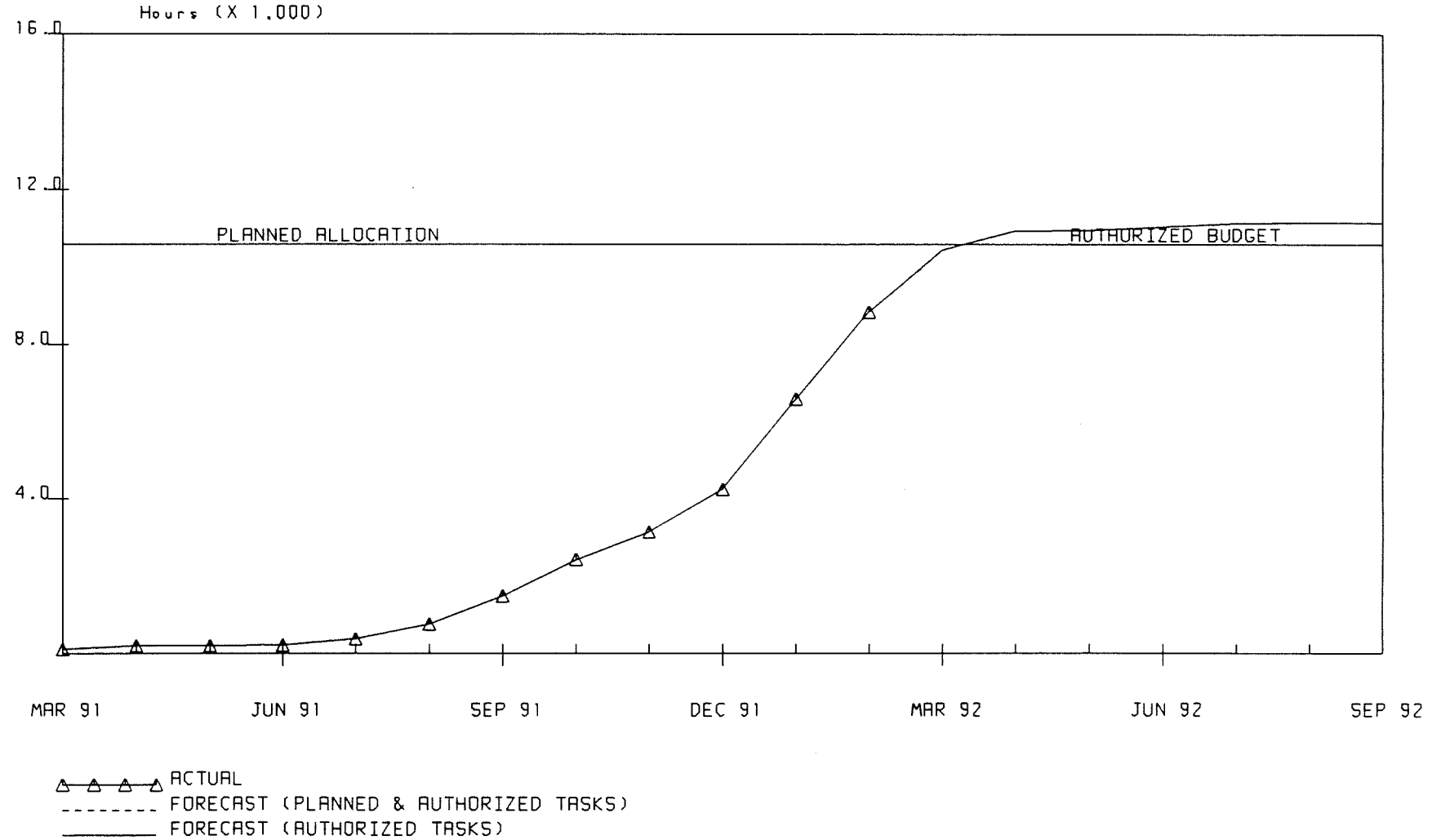
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 03/11/92
RUN TIME: 11:16 AM

ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

February 1992



~~Cemide / Kozol~~

ARCS V TECHNICAL STATUS REPORT
March 1992

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
DATE PREPARED: March 31, 1992
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The majority of the work performed during this reporting period related to the preparation of the designs for the groundwater extraction and treatment facility, the in situ biotreatment system, and the landfill cap. The Landfill Cap Prefinal Design was submitted on March 25, and the Groundwater Treatment and Extration Facilities Prefinal Design (which includes the in situ biotreatment) was submitted on March 31. In addition, the Groundwater Monitoring Plan was revised according to WDNR comments on the first draft, and the Construction Quality Assurance Plan (CQAP), the Draft Operation and Maintenance (O&M) Manual, and the prefinal design cost estimates were prepared. The CQAP and cost estimate accompanied the design submittals. The O&M Manual and Groundwater Monitoring Plan will be submitted by April 17.

The in situ biotreatment bench-scale testing was finalized, and a letter report will be submitted by April 14.

A conference call was held with the WDNR and the EPA on March 25 to discuss an upcoming public meeting in the Town of Onalaska. The March 31 meeting was attended by the SM and ASM.

2. Problems Resolved

Comments on the proposed outfall design were received from the Army Corps of Engineers and the WDNR. No major concerns were identified.

3. Problem Areas and Recommended Solutions

In order to maintain the current schedule for implementation of the design, it will be necessary to obtain easements from adjacent property owners and to issue a work assignment for the RA within the next 4 to 8 weeks.

4. Deliverables Submitted

Prefinal Design—Landfill Cap: March 25

Construction Quality Assurance Plan—Landfill Cap: March 25

Prefinal Design—Groundwater Extraction and Treatment Facilities: March 31

Construction Quality Assurance Plan—Groundwater Extraction and Treatment Facilities: March 31

Prefinal Design Construction Cost Estimate: March 31

5. Activities Planned Next Reporting Period

We anticipate receiving comments on the documents listed above and initiating revisions.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Travel expenses reported this month were charged to Onalaska Work Assignment No. 38-5NL5 incorrectly. The expenses should have been charged to Work Assignment No. 47-5RL5. The SM and ASM received approval from the EPA after the costs had been charged.

9. Laboratories

Physical analyses of the free product from the in situ bench-testing were performed.

10. Project Performance

The Contractor has submitted several complex and interrelated documents to the WAM in a timely fashion.

GLT225/038.51

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 139
 RUN DATE: 04/08/92
 RUN TIME: 03:23 PM
 AS OF: 03/92

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS w/INVOICED FEE	114,820	746,225						
AUTH. TASKS w/EST. FULL FEE	123,264	799,520	55,339	854,860	861,350	6,490		
ALL TASKS w/EST. FULL FEE		799,520	55,339	854,860				0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

APR92	MAY92	JUN92	JUL92	AUG92	SEP92	Direct Labor	33,776	Indirects	56,742
37,986	5,546	6,232	5,205	278	69	Equipment	341	Base Fee	3,291
837,506	843,052	849,284	854,489	854,767	854,836	ODC	18,465	Award Fee	0
						Subcontracts	95	Travel	306
						Laboratory Service	1,804	TOTAL	114,820

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 04/08/92
 RUN TIME: 03:23 PM
 AS OF: 03/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	A	80	8	49	12	61	64	3
QC Quality Control	A	100	0	35	0	35	64	29
ZZ General	A	0	-14	0	0	0		
MG Meetings (External)	A	0	0	0	50	50	140	90
GM Groundwater Monitoring Plan	A	86	102	313	51	364	416	52
MS Miscellaneous Support	A	0	0	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		78	96	412	113	525	792	267
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	A	96	62	110	4	114	300	186
EC Estimates - Cost	A	94	218	242	16	258	224	-34
PM Project Management	A	95	1	224	12	236	196	-40
QC Quality Control	A	83	47	94	19	113	160	47
ZZ General	A	100	-34	8	0	8		-8
GX Groundwater Extraction Desig	A	95	10	233	12	245	328	83
GT Groundwater Treatment Design	A	99	67	2,895	28	2,923	1,160	-1,763
MG Meetings (External)	A	52	0	17	16	33	100	67
ML Manuals - Operations and Mai	A	100	24	56	0	56	272	216
IT Insitu Treatment Design	A	53	157	157	138	295	584	289
SL Construction Schedule Develo	A	100	63	190	0	190	382	192
Activity Total		95	615	4,226	245	4,471	3,706	-765
65602LC								
LANDFILL CAP DESIGN								
ZZ General	A	100	0	4	0	4		-4
WP EPA Workplan	A	100	0	80	0	80	88	8
QC Quality Control	A	87	15	133	20	153	156	3
PM Project Management	A	94	46	197	12	209	178	-31
PP Project Planning General	A	100	0	9	0	9	30	21
ED Existing Data Review	A	100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	A	100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	A	100	0	132	0	132	102	-30
P1 Plans and Specifications - P	A	100	2	365	0	365	210	-155
R8 Report - 1st Draft Predesign	A	100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	A	100	65	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	A	100	60	98	0	98	72	-26
P2 Plans and Specifications - I	A	100	236	242	0	242	192	-50
C4 Civil Eng - Final Design	A	0	0	0	56	56	56	
G4 Geotechnical Eng - Final Des	A	0	0	0	40	40	56	16
P3 Plans and Specifications - F	A	79	77	77	21	98	240	142
EC Estimates - Cost	A	100	45	45	0	45	48	3

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 04/08/92
 RUN TIME: 03:23 PM
 AS OF: 03/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
SL Construction Schedule Develo	A	100	8	11	0	11	74	63	
QS QAPP/SSP/FSP	A	100	34	112	0	112	108	-4	
ML Manuals - Operations and Mai	A	100	0	7	0	7	88	81	
HS Health and Safety	A	100	36	60	0	60	40	-20	
MG Meetings (External)	A	100	0	46	0	46	48	2	
MS Miscellaneous Support	A	100	4	45	0	45	96	51	
Activity Total		93	628	2,120	149	2,269	2,306	37	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	140	140	140		
Activity Total		0	0	0	140	140	140		
65602PD									
Preliminary Design									
EC Estimates - Cost	A	100	0	47	0	47	120	73	
PM Project Management	A	100	6	154	0	154	148	-6	
QC Quality Control	A	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	
HS Health and Safety	A	100	0	6	0	6	48	42	
R7 Report - Predesign	A	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	A	100	134	1,433	0	1,433	1,575	142	
H1 Haz Waste Design - Process E	A	100	0	800	0	800	638	-162	
MG Meetings (External)	A	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	A	100	96	122	0	122	60	-62	
ZZ General	A	0	-122	0	0	0			
Activity Total		100	114	3,203	0	3,203	3,257	54	
65602PP									
Project Planning - RD									
PM Project Management	A	94	11	142	9	151	192	41	
PP Project Planning General	A	100	0	50	0	50	40	-10	
QC Quality Control	A	100	0	22	0	22	24	2	
WP EPA Workplan	A	100	0	123	0	123	142	19	
ZZ General	A	100	5	6	0	6		-6	
Activity Total		97	16	343	9	352	398	46	
Work Assignment Total		94	1,469	10,304	656	10,960	10,599	-361	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 142
 RUN DATE: 04/08/92
 RUN TIME: 03:23 PM
 AS OF: 03/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		---- AUTHORIZED ----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS		1,469	10,304	656	10,960	10,599	-361	
ALL TASKS			10,304	656	10,960			0

Projection: (Monthly/Cumulative)

	APR92	MAY92	JUN92	JUL92	AUG92	SEP92
	446	58	80	71	1	0
	10,750	10,808	10,888	10,959	10,960	10,960

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 1
 RUN DATE: 04/13/92
 RUN TIME: 10:10
 AS OF: 03/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Draft O&M Manual	10/28/91		03/20/92 P	30+	2
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	3
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	4
Final Design - ISB	01/13/92		05/27/92 P	30+	5
Final Design - GWT	01/21/92		05/27/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/13/92 P		10
Construction Cost Estimate	04/13/92		04/13/92 P		11
Draft O&M Manual	04/13/92		04/13/92 P		12
Draft & Final Submittal	04/01/92		04/29/92 P	28	13
Final Bid Document of Design Support Submittals	04/24/92		05/27/92 P	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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 NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$861,350
AUTHORIZED BUDGET: \$861,350

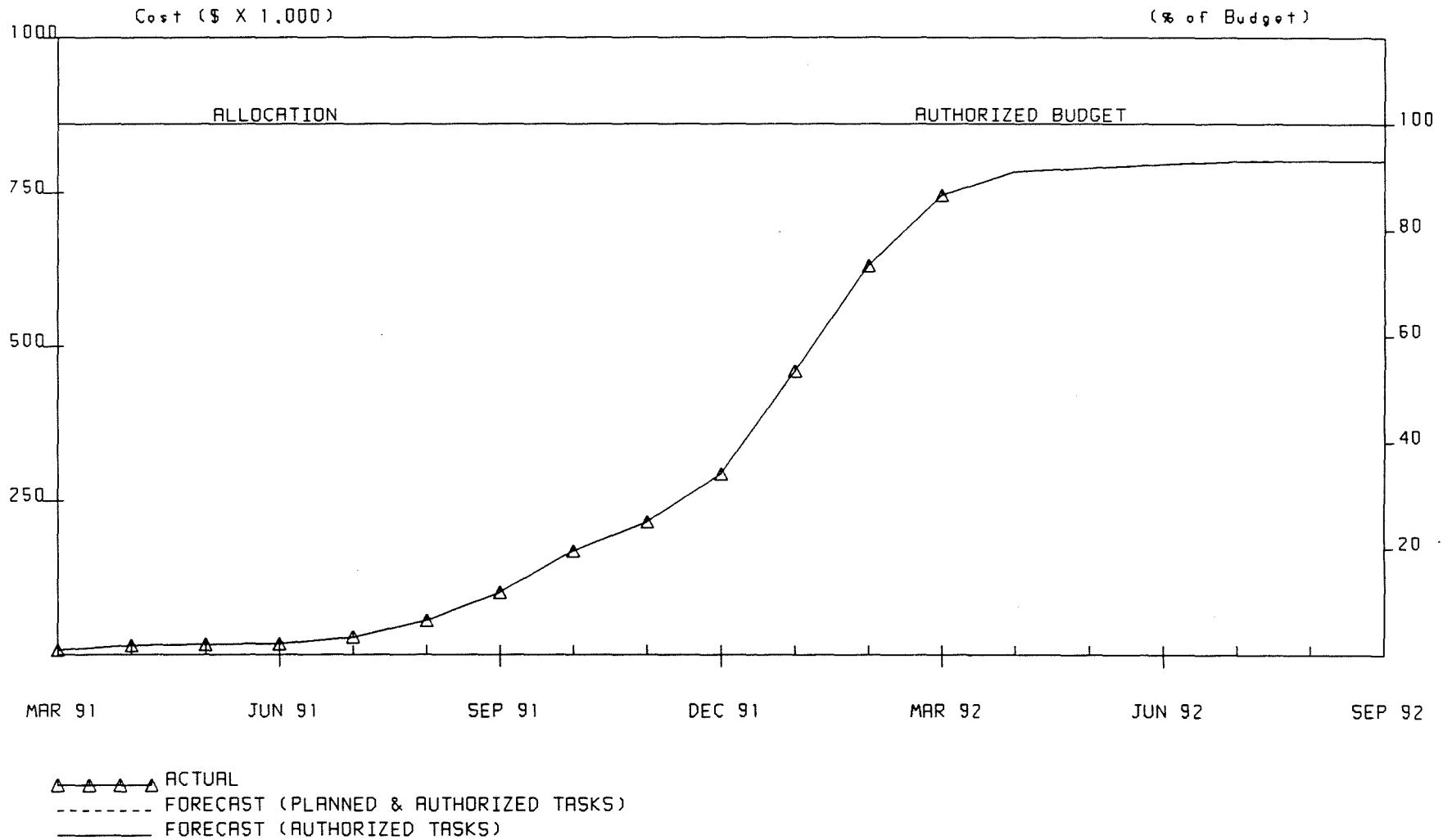
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 04/09/92
RUN TIME: 04:27 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEEES)

March 1992



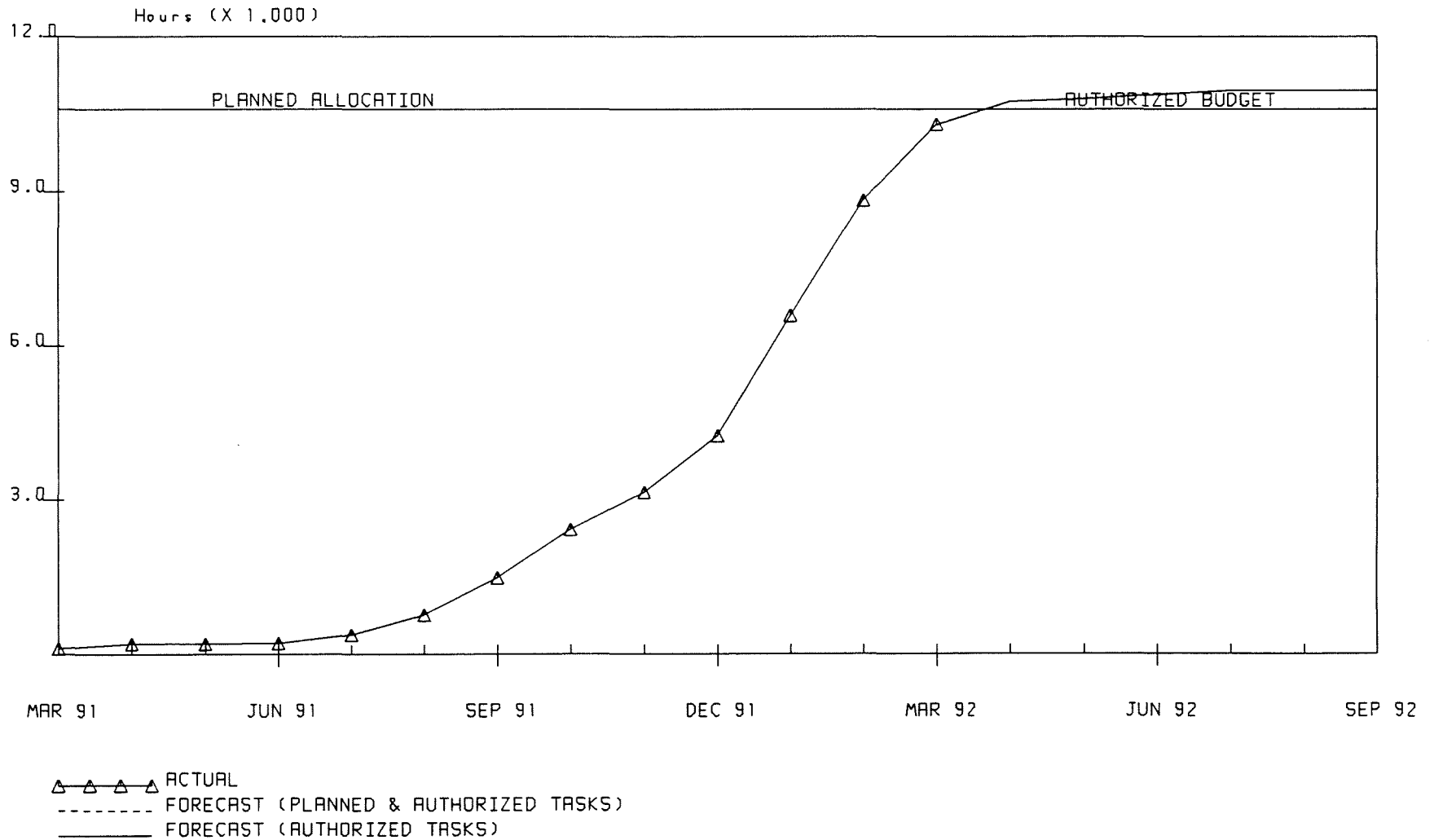
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 10.599
AUTHORIZED BUDGET: 10.599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 04/09/92
RUN TIME: 04:27 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

March 1992



ARCS V TECHNICAL STATUS REPORT

April 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

DATE PREPARED: April 30, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The Draft Operation and Maintenance Manual for the Groundwater Extraction and Treatment Facility was submitted to the EPA on April 9.

The Draft Operation and Maintenance Manual for the Landfill Cap was submitted to the EPA on April 29.

Requests for review of construction plans for the landfill cap and groundwater treatment facilities were submitted to the U.S. Fish and Wildlife Service and the La Crosse County Land Use Department.

A letter clarifying the expected VOC removals from the air stripper was forwarded to the WAM and the WDNR on April 10.

On April 29 the SM and lead hydrogeologist from CH2M HILL travelled to Madison to attend a meeting with WDNR to discuss the remedial design.

2. Problems Resolved

Comments on the 90 percent complete Landfill Cap Design were received during a telephone conference call on April 16.

RECEIVED
MAY 18 1992
HAZARDOUS WASTE MANAGEMENT
BUREAU OF EPC
STATE OF WISCONSIN

3. Problem Areas and Recommended Solutions

The revised Groundwater Monitoring Plan and QAPP was to be submitted during this reporting period. However, after receiving notice that QAS recently revised its QAPP requirements, it was determined that some additional work would be needed to prepare a suitable QAPP. The revised monitoring plan and QAPP should be ready for submittal by the first or second week of May.

The WDNR has indicated that they may require that the treatment facility be designed to provide a greater factor of safety to meet ammonia limits. This design change would require a WPRR.

The WDNR indicated that they would like a detailed sampling plan prepared for the startup period. This work is outside the original scope and would require a WPRR if CH2M HILL is directed to provide this sampling plan.

The WDNR has indicated that they may not have comments on the Groundwater Treatment Design available until early June. CH2M HILL will prepare a revised schedule to evaluate potential impacts from a delayed review.

Project budget is near 100 percent spent. Project scope is more than 95 percent complete. The prefinal plans and specifications for the groundwater treatment facility have required an unexpected level of coordination with the landfill cap design. We are checking the extent of costs to complete the work. Comments on the prefinal design will affect this cost.

4. Deliverables Submitted

The Draft Operation and Maintenance Manual for the Groundwater Extraction and Treatment Facility was submitted to the EPA on April 9.

The Draft Operation and Maintenance Manual for the Landfill Cap was submitted to the EPA on April 29.

5. Activities Planned Next Reporting Period

The Landfill Cap Prefinal Design will be submitted the first week of May.

The revised Groundwater Monitoring Plan and QAPP will be submitted by May 15.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Some travel expenses were inappropriately charged to this project and will be transferred out for the next reporting period.

9. Laboratories

None.

10. Project Performance

The Contractor has submitted several complex and interrelated documents to the WAM in a timely fashion.

GLT225/038.51

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 05/11/92
 RUN TIME: 09:58 AM
 AS OF: 04/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS									
Design Support Activities									
PM Project Management	A	82	357	3,910	0	842	4,752	4,948	196
QC Quality Control	A	100	0	2,929	0	0	2,929	5,107	2,177
ZZ General	A	100	-699	400	0	0	400		-399
MG Meetings (External)	A	100	0	68	0	0	68	10,221	10,153
GM Groundwater Monitoring Plan	A	93	3,517	23,719	0	1,836	25,555	29,355	3,800
MS Miscellaneous Support	A	0	0	0	0	0	0	5,457	5,456
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		92	3,175	32,085	0	2,678	34,763	56,933	22,168
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	67	1,612	19,862	0	9,992	29,854	20,556	-9,297
EC Estimates - Cost	A	92	1,494	16,478	0	1,516	17,994	15,185	-2,809
PM Project Management	A	99	856	20,605	0	245	20,850	14,645	-6,205
QC Quality Control	A	100	62	7,744	0	0	7,744	13,513	5,768
ZZ General	A	100	113	1,014	0	0	1,014		-1,013
GX Groundwater Extraction Design	A	100	15	15,209	0	0	15,209	23,907	8,697
GT Groundwater Treatment Design	A	100	4,276	189,836	0	0	189,836	82,358	-107,477
MG Meetings (External)	A	82	1,219	2,359	0	532	2,891	7,397	4,505
ML Manuals - Operations and Mai	A	100	898	5,332	0	0	5,332	18,865	13,532
IT Insitu Treatment Design	A	85	24,057	33,908	0	6,202	40,110	42,863	2,753
SL Construction Schedule Develo	A	100	1,963	15,600	0	0	15,600	25,836	10,236
Activity Total		95	36,566	327,948	0	18,487	346,435	265,125	-81,310
65602LC									
LANDFILL CAP DESIGN									
ZZ General	A	100	-65	301	0	0	301		-300
WP EPA Workplan	A	100	0	4,841	0	0	4,841	6,877	2,035
QC Quality Control	A	93	999	12,929	0	925	13,854	14,743	888
PM Project Management	A	92	345	14,662	0	1,239	15,901	14,689	-1,212
PP Project Planning General	A	100	0	511	0	0	511	2,558	2,046
ED Existing Data Review	A	100	0	2,313	0	0	2,313	2,324	10
C1 Civil Engineering Design - G	A	100	0	17,150	0	0	17,150	15,866	-1,284
G1 Pre-design - Geotechnical	A	100	0	8,399	0	0	8,399	7,133	-1,265
P1 Plans and Specifications - P	A	100	0	21,760	0	0	21,760	14,977	-6,782
R8 Report - 1st Draft Pre-design	A	100	0	5,758	0	0	5,758	6,897	1,138
C3 Civil Eng - Intermediate Des	A	100	0	3,773	0	0	3,773	4,492	718
G3 Geotechnical Eng - Intermedi	A	100	143	6,035	0	0	6,035	5,158	-877
P2 Plans and Specifications - I	A	100	1,589	16,516	0	0	16,516	13,705	-2,811
C4 Civil Eng - Final Design	A	100	657	657	0	0	657	4,082	3,425
G4 Geotechnical Eng - Final Des	A	0	0	0	0	797	797	4,036	3,238
P3 Plans and Specifications - F	A	100	5,931	9,778	0	0	9,778	18,722	8,943
EC Estimates - Cost	A	64	144	2,458	0	1,404	3,862	3,074	-788

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
SL Construction Schedule Develo	A	70	1,264	2,016	0	878	2,894	5,076	2,182	
QS QAPP/SSP/FSP	A	100	161	8,066	0	0	8,066	7,954	-111	
ML Manuals - Operations and Mai	A	82	2,002	2,432	0	552	2,984	6,526	3,541	
HS Health and Safety	A	100	160	4,060	0	0	4,060	4,005	-55	
MG Meetings (External)	A	100	748	3,562	0	0	3,562	3,452	-109	
MS Miscellaneous Support	A	100	361	2,969	0	0	2,969	7,783	4,814	
Activity Total		96	14,438	150,947	0	5,795	156,742	174,128	17,384	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	0	0	0	0	4,661	4,661	8,878	4,216	
Activity Total		0	0	0	0	4,661	4,661	8,878	4,216	
65602PD										
Preliminary Design										
EC Estimates - Cost	A	100	0	2,450	0	0	2,450	7,041	4,590	
PM Project Management	A	100	0	11,258	0	0	11,258	10,213	-1,044	
QC Quality Control	A	100	0	9,419	0	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	A	100	0	11,341	0	0	11,341	16,629	5,288	
HS Health and Safety	A	100	0	406	0	0	406	3,625	3,218	
R7 Report - Predesign	A	100	0	22,093	0	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	A	100	6,998	118,407	0	0	118,407	114,066	-4,341	
H1 Haz Waste Design - Process E	A	100	0	52,600	0	0	52,600	50,635	-1,965	
MG Meetings (External)	A	100	0	3,380	0	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	A	100	66	8,172	0	0	8,172	9,311	1,138	
ZZ General	A	100	-1,007	-835	0	0	-835		835	
Activity Total		100	6,056	238,692	0	0	238,692	241,123	2,430	
65602PP										
Project Planning - RD										
PM Project Management	A	100	1,386	16,185	0	0	16,185	13,961	-2,224	
PP Project Planning General	A	100	0	3,869	0	0	3,869	2,917	-952	
QC Quality Control	A	100	0	1,611	0	0	1,611	1,879	268	
WP EPA Workplan	A	100	370	9,755	0	0	9,755	10,272	516	
ZZ General	A	100	10	335	0	0	335		-335	
Activity Total		100	1,766	31,756	0	0	31,756	29,029	-2,727	
Work Assignment Total		96	62,001	781,428	0	31,621	813,049	775,215	-37,839	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	63,856	810,081					
AUTH. TASKS w/EST. FULL FEE	68,178	867,698	34,932	902,630	861,350	-41,279	
ALL TASKS w/EST. FULL FEE		867,698	34,932	902,630			0

Projection: (Monthly/Cumulative)

	MAY92	JUN92	JUL92	AUG92	SEP92	OCT92
	28,496	809	5,438	178	0	0
	896,194	897,003	902,441	902,619	902,619	902,619
<Overrun>						

Current Cost Invoiced:

Direct Labor	18,167	Indirects	30,521
Equipment	6,021	Base Fee	1,854
ODC	6,950	Award Fee	0
Subcontracts	39	Travel	124
Laboratory Service	180	TOTAL	63,856

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
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 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	A	81	5	54	13	67	64	-3
QC Quality Control	A	100	0	35	0	35	64	29
ZZ General	A	100	7	7	0	7		-7
MG Meetings (External)	A	0	0	0	0	0	140	140
GM Groundwater Monitoring Plan	A	97	46	359	12	371	416	45
MS Miscellaneous Support	A	0	0	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		95	58	470	25	495	792	297
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	A	51	0	110	104	214	300	86
EC Estimates - Cost	A	91	1	243	24	267	224	-43
PM Project Management	A	99	10	234	2	236	196	-40
QC Quality Control	A	100	0	94	0	94	160	66
ZZ General	A	100	0	8	0	8		-8
GX Groundwater Extraction Desig	A	100	0	233	0	233	328	95
GT Groundwater Treatment Design	A	100	34	2,929	0	2,929	1,160	-1,769
MG Meetings (External)	A	81	17	34	8	42	100	58
ML Manuals - Operations and Mai	A	100	0	56	0	56	272	216
IT Insitu Treatment Design	A	86	419	576	96	672	584	-88
SL Construction Schedule Develo	A	100	13	203	0	203	382	179
Activity Total		95	494	4,720	234	4,954	3,706	-1,248
65602LC								
LANDFILL CAP DESIGN								
ZZ General	A	100	0	4	0	4		-4
WP EPA Workplan	A	100	0	80	0	80	88	8
QC Quality Control	A	95	23	156	8	164	156	-8
PM Project Management	A	94	4	201	12	213	178	-35
PP Project Planning General	A	100	0	9	0	9	30	21
ED Existing Data Review	A	100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	A	100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	A	100	0	132	0	132	102	-30
P1 Plans and Specifications - P	A	100	0	365	0	365	210	-155
R8 Report - 1st Draft Predesign	A	100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	A	100	0	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	A	100	1	99	0	99	72	-27
P2 Plans and Specifications - I	A	100	4	246	0	246	192	-54
C4 Civil Eng - Final Design	A	100	10	10	0	10	56	46
G4 Geotechnical Eng - Final Des	A	0	0	0	8	8	56	48
P3 Plans and Specifications - F	A	100	61	138	0	138	240	102
EC Estimates - Cost	A	67	3	48	24	72	48	-24

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
SL Construction Schedule Develo	A	73	21	32	12	44	74	30	
QS QAPP/SSP/FSP	A	100	0	112	0	112	108	-4	
ML Manuals - Operations and Mai	A	81	28	35	8	43	88	45	
HS Health and Safety	A	100	2	62	0	62	40	-22	
MG Meetings (External)	A	100	11	57	0	57	48	-9	
MS Miscellaneous Support	A	100	6	51	0	51	96	45	
Activity Total		97	174	2,294	72	2,366	2,306	-60	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	0	0	0	80	80	140	60	
Activity Total		0	0	0	80	80	140	60	
65602PD									
Preliminary Design									
EC Estimates - Cost	A	100	0	47	0	47	120	73	
PM Project Management	A	100	0	154	0	154	148	-6	
QC Quality Control	A	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	A	100	0	157	0	157	240	83	
HS Health and Safety	A	100	0	6	0	6	48	42	
R7 Report - Predesign	A	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	A	100	7	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	A	100	0	800	0	800	638	-162	
MG Meetings (External)	A	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	A	100	1	123	0	123	60	-63	
Activity Total		100	8	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	A	100	13	155	0	155	192	37	
PP Project Planning General	A	100	0	50	0	50	40	-10	
QC Quality Control	A	100	0	22	0	22	24	2	
WP EPA Workplan	A	100	5	128	0	128	142	14	
ZZ General	A	100	0	6	0	6		-6	
Activity Total		100	18	361	0	361	398	37	
Work Assignment Total		96	752	11,056	411	11,467	10,599	-868	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR SUBMITTED
		CURRENT TO DATE	TO COMPLETE AT COMPLETE	BUDGET VARIANCE	

AUTH. TASKS	752	11,056	411	11,467	10,599	-868	0
ALL TASKS		11,056	411	11,467			

Projection: (Monthly/Cumulative)

	MAY92	JUN92	JUL92	AUG92	SEP92	OCT92
	322	9	80	0	0	0
	11,378	11,387	11,467	11,467	11,467	11,467

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR APR 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
SWANSON G J	P4	2		
WANDERS S P	P4	3		
KEITH S M	P3	1		
MASON R E	P3	10		
RUSSELL J B	P3	2		
HECKNER M J	0	0		
HUGHES B N	0	3		
KOCH P J	0	1		
NAVARRO D M	0	1		
SMITH C A	0	1		
TOTAL		24	TOTAL DOLLARS	573.64

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-300466	12.40
WAN-308045	0.75
LAN-300466	34.45
WAN-308044	0.18
SYSCOMPAQ DE	17.98
SYSCOMPAQ DE	55.12
LAN-308044	0.50
WDCA-VAX8600	44.60
CVOT-VAX8650	1.20
WDCA-VAX8600	3.91
WDCA-VAX8600	1.06
ARCS 5	5.80
USE-302073	1.61
WAN-302073	2.89
LAN-302073	8.03
USE-300466	6.89
LAN-308045	2.08
ARCS 5	-6.08
ARCS 5	3.45
ARCS 5	-1.15
ARCS 5	-6.16
ARCS 5	-1.33
ARCS 5	1.33
ARCS 5	2.25
ARCS 5	3.50
ARCS 5	-2.25
ARCS 5	1.61
ARCS 5	1.15
ARCS 5	-1.61

ODC COMPUTER TOTAL 194.16

ODC DOCUMENT PROC

DPWH-L 2400	2.36
DPWH-L 2400	9.79

ODC DOCUMENT PROC TOTAL 12.15

ODC CHEM PROT SURCHG

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC CHEM PROT SURCHG

 H&S PROGRAM 1.76
 H&S PROGRAM 3.52
 ODC CHEM PROT SURCHG TOTAL 5.28

ODC POSTAGE

 09FEDEX 17.50
 ODC POSTAGE TOTAL 17.50

TOTAL 229.09

6. OVERHEAD

Base	Rate	
573.64	0.4300	246.67

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
573.64	1.2500	717.05

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

14. BASE FEE

	Base	Rate	Total
	-----	-----	-----

14. BASE FEE

	Base	Rate	Total
	-----	-----	-----
LINES 1 THROUGH 8	1,766.45	0.0300	52.99
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			52.99

17. TOTAL INVOICE AMOUNT

1,819.44

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
NUTT R M	P4	2		
OHLSSON B	P4	55		
RYBEL V W	P4	3		
SCHMIEGE M A	P4	8		
BOERSMA P M	P3	18		
GEIGLER G A	P3	4		
HEIMLICH B W	P3	4		
KEITH S M	P3	39		
LISAK D E	P3	9		
MADAY M A	P3	43		
AMUNDSON L A	P2	3		
PADDOCK M W	P2	24		
HARGREAVES K K	P1	24		
KINSCHER N B	P1	4		
SLATTERY JR J P	P1	1		
VEGA T O	P1	16		
LEHMAN B R	T2	74		
LLANAS P A	T2	43		
OXLEY R	T2	21		
OXLEY R I	T2	64		
PIERONI J A	T2	15		
SIEBERS R G	T2	20		
BROWN B C	0	11		
FAGA N M	0	0		
HECKNER M J	0	9		
KOCH P J	0	2		
MCDOWELL L S	0	6		
MERKEL M A	0	7		
MOMON E A	0	0		
PIERSON M W	0	1		
SCHULTZ D E	0	9		
SMITH C A	0	23		
TOTAL		562	TOTAL DOLLARS	11,540.86

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
RASMUSSEN S K	7.75	0.00	0.00	0.00	7.75			
SLATTERY JR J P	5.25	0.00	0.00	0.00	5.25			

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	13.00	0.00	0.00	0.00	13.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					13.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
DISPOSABLES	40.00	
TOTAL		40.00

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-308266	5.87
WAN-308042	0.14
WAN-308045	2.21
WAN-302017	0.37
LAN-308045	6.13
LAN-308042	0.38
LAN-308266	16.30
USE-301507	0.58
GDWMACINTOSH	4.22
USE-308266	3.26
WAN-300950	10.32
USE-300956	2.21
LAN-302415	0.78
SYSTOSHIBA T	11.93
LAN-308267	1.00
USE-302415	0.16
LAN-300950	28.68

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE 56.76
USE-308266 13.69
SYSCOMPAQ DE 2.24
SYSCOMPAQ DE 1.74
USE-308267 0.20
LAN-302573 0.88
LAN-302490 5.33
USE-300253 7.10
LAN-302017 1.03
OPTIMAGEN LA -10.50
LAN-302627 -16.20
CADCOMPAQ DE -52.24
SYSCOMPAQ DE -36.29
LAN-302056 -11.15
WAN-302627 -5.83
WAN-302056 -11.74
USE-302627 -3.24
USE-302056 -26.42
WAN-302490 1.92
WAN-308042 1.17
WAN-308267 0.36
WAN-302415 0.28
LAN-308042 3.25
CADCOMPAQ DE 462.18
OPTQMS PS220 79.80
USE-301658 126.81
CADCOMPAQ DE 3.12
LAN-308042 3.25
USE-302627 3.24
WAN-302627 5.83
LAN-302627 16.20
SYSCOMPAQ DE 36.29
OPTSOF-PCICE 1.50
SYSCOMPAQ DE 36.51
USE-302490 1.07
SPC01640BOP. 31.50

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FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

SPC01600BOP.	20.00
SPC13985B.WP	76.86
SPC01700BOP.	22.52
SYSCOMPAQ DE	2.97
LAN-308217	4.10
LAN-308044	0.65
LAN-302986	0.88
LAN-308212	129.83
USE-302573	1.58
USE-302073	0.27
LAN-302073	1.33
WAN-302017	0.41
WAN-300299	4.11
USE-308212	233.69
LAN-308045	8.60
USE-300614	0.25
WAN-302986	0.32
WAN-308044	0.23
WAN-302073	0.48
USE-308217	0.82
CADIBM PS/2	4.36
LAN-301658	53.54
WAN-308212	103.86
WAN-300614	0.45
WAN-308217	1.48
WAN-300956	0.98
LAN-300956	0.93
USE-302084	20.39
OPTIMAGEN LA	10.50
OPTQMS PS220	4.20
LAN-302573	1.28
WAN-302573	1.02
USE-302573	2.30
CADCOMPAQ DE	4.54
WAN-301658	56.36
WAN-302573	0.70

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-300614	1.25
GDWMACINTOSH	4.64
LAN-308045	5.05
CADCOMPAQ DE	40.32
USE-302073	0.38
WAN-302056	11.74
LAN-302084	11.33
CADCOMPAQ DE	52.24
LAN-301406	0.30
SYSCOMPAQ DE	4.26
WAN-302084	9.06
LAN-302056	11.15
LAN-302073	1.90
WAN-302986	10.07
WAN-308042	1.17
WAN-308045	1.82
WAN-308044	0.09
LAN-300299	11.43
LAN-302986	27.98
LAN-302017	1.13
USE-300299	2.29
SYSCOMPAQ DE	25.59
LAN-308044	0.25
WAN-308045	3.10
CADCOMPAQ DE	1.07
WAN-302073	0.68
WAN-301406	0.24
USE-301406	0.54
USE-302056	26.42
OPTQMS PS220	16.80
SYSCOMPAQ DE	9.18
WKSINTERPRO	326.89
WAN-302490	55.90
WAN-308044	37.38
LAN-308044	103.83
SYSCOMPAQ SL	6.44

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSLEADING E	2.00
SYSTOSHIBA T	347.82
LAN-302490	155.28
USE-302490	31.06
OPTSOF-PCICE	833.10
USE-300956	2.11

ODC COMPUTER TOTAL 3,796.25

ODC REPROGRAPHICS

BINDING	5.95
COPIER-8.5X1	8.99
BINDING	5.95
COPIER-8.5X1	29.38
BINDING	7.14

ODC REPROGRAPHICS TOTAL 57.41

ODC DOCUMENT PROC

DPWH-L 2400	2.83
DPWH-L 2400	1.77
DPWCOMPAQ DE	135.35
DPWH-L 2400	4.01
DPWH-L 2400	2.01
DPWH-L 2400	3.07
DPWH-L 2400	2.71
DPWCOMPAQ DE	4.13
DPWCOMPAQ DE	132.04
DPWH-L 2400	23.84
DPWH-L 2400	1.18
DPWH-L 2400	40.59
DPWH-L 2400	13.57
DPWH-L 2400	15.34
DPWH-L 2400	28.91

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

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5. OTHER DIRECT COSTS

ODC DOCUMENT PROC

DPWH-L 2400	15.34
DPWH-L 2400	490.05

ODC DOCUMENT PROC TOTAL 916.74

ODC CHEM PROT SURCHG

H&S PROGRAM	35.20
H&S PROGRAM	24.64
H&S PROGRAM	29.92
H&S PROGRAM	3.52
H&S PROGRAM	7.04

ODC CHEM PROT SURCHG TOTAL 100.32

ODC POSTAGE

24POSTAGE	5.07
POSTAGE/FRT	10.25
POSTAGE/FRT	-10.25
FED EXP	13.25
24FEDEXP	9.25
FED EXP	6.25
UPS	4.64
FED EXP	24.59

ODC POSTAGE TOTAL 63.05

ODC SUPPLIES

COMMERCIAL C	179.35
COMMERCIAL C	314.39
SIEKERT AND	45.49
SIEKERT AND	102.29

ODC SUPPLIES TOTAL 641.52

TOTAL 5,575.29

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

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 FOR PROJECT 65602FD.00:Prefinal/Final Design

6. OVERHEAD

Base	Rate	
11,540.86	0.4300	4,962.07

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
11,540.86	1.2500	14,426.08

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			8.62
TOTAL SUBCONTRACTS			8.62

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	36,557.30	0.0300	1,096.72	
SPECIAL SUB POOL	8.62	0.0250	0.22	
TOTAL BASE FEE				1,096.94

17. TOTAL INVOICE AMOUNT 37,662.86

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

1. DIRECT LABOR

Name	P Level	Hours Worked		
KEITH S M	P3	5		
MACGREGOR D C	P3	24		
OHLAND C M	P3	9		
KASHEVAROF W V	P1	4		
KUTZ P T	T2	3		
SHEKOSKI D L	T2	11		
SITARZ V L	T1	2		
BROWN B C	0	1		
KOCH P J	0	8		
MCDOWELL L S	0	1		
MERKEL M A	0	3		
SMITH C A	0	14		
TOTAL		85	TOTAL DOLLARS	1,465.88

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-302073	0.17
LAN-300950	2.33
LAN-300867	3.05
SYSCOMPAQ DE	6.83
LAN-308045	3.10
SYSCOMPAQ DE	1.90
LAN-302017	6.30
SYSCOMPAQ SL	17.42
LAN-302986	6.18
USE-300867	0.61
LAN-301853	7.78
LAN-300950	3.03
LAN-308045	2.70
LAN-302073	0.85
WAN-301853	2.80
WAN-302017	2.27
WAN-300867	1.10
WAN-300950	0.84
USE-301853	1.56
WAN-308045	1.12
WAN-302986	2.22
WAN-308045	0.97
WAN-302073	0.31
WAN-300950	1.09
GDWMACINTOSH	25.96

ODC COMPUTER TOTAL 102.49

ODC REPROGRAPHICS

BINDING	1,071.00
BINDING	-1,071.00
BINDING	5.95
BINDING	-1,071.00

ODC REPROGRAPHICS TOTAL -1,065.05

ODC DOCUMENT PROC

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

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 FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC DOCUMENT PROC

DPWCOMPAQ DE	10.97
DPWCOMPAQ DE	29.15
DPWH-L 2400	11.80
DPWH-L 2400	12.74
DPWCOMPAQ DE	14.28
DPWH-L 2400	14.63

ODC DOCUMENT PROC TOTAL 93.57

ODC CHEM PROT SURCHG

H&S PROGRAM	42.24
H&S PROGRAM	15.84
H&S PROGRAM	18.84
H&S PROGRAM	8.80

ODC CHEM PROT SURCHG TOTAL 85.72

TOTAL -783.27

6. OVERHEAD

Base	Rate	
1,465.88	0.4300	630.23

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
1,465.88	1.2500	1,832.35

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

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WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			29.92
TOTAL SUBCONTRACTS			29.92

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	3,145.19	0.0300	94.36
SPECIAL SUB POOL	29.92	0.0250	0.75
TOTAL BASE FEE			95.11

17. TOTAL INVOICE AMOUNT 3,270.22

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
BARNETT C G	P3	1		
BOERSMA P M	P3	3		
OHLAND C M	P3	3		
COOKLE J F	T2	1		
CROWNOVER C D	0	2		
GONZALEZ G I	0	1		
KUHNS R J	0	0		
MROZINSKI M	0	1		
NAVARRO D M	0	0		
TOTAL		12	TOTAL DOLLARS	202.45

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
KUTZ P T	12.60	0.00	0.00	0.00	12.60			
SUBTOTAL	12.60	0.00	0.00	0.00	12.60			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					12.60			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
ALDRICH CHEM	17.20	
EQP RNTL/OUT	40.14	
FOX WELDING	99.00	
LINC QUANTUM	5,825.00	
TOTAL		5,981.34

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

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FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE	3.81
USE-303043	0.34
SYSCOMPAQ DE	41.30
OPTQMS PS220	12.60
WAN-301159	4.18
USE-302221	141.44
OPTHP 7600 E	85.00
USE-301159	2.32
CADCOMPAQ DE	279.73
CADCOMPAQ DE	142.04
USE-308219	0.46
SYSCOMPAQ DE	5.10
LAN-308219	2.28
SYSCOMPAQ DE	3.25
WAN-302221	62.86
LAN-301159	11.60
LAN-302221	78.58
LAN-308042	3.00
WAN-302573	31.92
LAN-302573	39.90
WAN-308219	0.82
WAN-308042	1.08
USE-302573	71.82
OPTQMS PS220	12.60
OPTHP 7600 E	-85.00
WAN-302221	-62.86
CADCOMPAQ DE	-279.73
LAN-301159	-11.60
SYSCOMPAQ DE	-3.25
USE-301159	-2.32
OPTQMS PS220	-12.60
USE-302221	-141.44
WAN-301159	-4.18
LAN-302221	-78.58
SYSCOMPAQ DE	-41.30
USE-302221	14.18

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5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE	3.98
CADCOMPAQ DE	28.04
USE-302627	0.36
WAN-302627	0.64
WAN-302221	6.30
LAN-302627	1.78
LAN-302221	7.88

ODC COMPUTER TOTAL 378.33

ODC REPROGRAPHICS

BINDING	-1,071.00
BINDING	5.95

ODC REPROGRAPHICS TOTAL -1,065.05

ODC DOCUMENT PROC

DPWH-L 2400	14.16
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ODC DOCUMENT PROC TOTAL 14.16

ODC CHEM PROT SURCHG

H&S PROGRAM	1.76
H&S PROGRAM	5.28
H&S PROGRAM	5.28

ODC CHEM PROT SURCHG TOTAL 12.32

ODC TELEPHONE

TELEPHONE	-1.75
TELEPHONE	1.75

ODC TELEPHONE TOTAL 0.00

ODC POSTAGE

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WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC POSTAGE

POSTAGE/FRT	47.50
POSTAGE/FRT	19.50
POSTAGE/FRT	-19.50
POSTAGE/FRT	-47.50

ODC POSTAGE TOTAL 0.00

TOTAL -660.24

6. OVERHEAD

Base	Rate	
202.45	0.4300	87.04

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
202.45	1.2500	253.07

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 180.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

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 FOR PROJECT 65602PD.00:Preliminary Design

14. BASE FEE

Base	Rate	Total
-----	-----	-----

14. BASE FEE

	Base	Rate	Total
	-----	-----	-----
LINES 1 THROUGH 8	5,876.26	0.0300	176.29
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			176.29

17. TOTAL INVOICE AMOUNT

6,232.55

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
HUBBARD W V	P4	4		
JOHNSON I H	P4	4		
NUTT R M	P4	2		
POUTSCH C H	P4	2		
SCHMIEGE M A	P4	7		
SCHNEIDER J R	P4	6		
STECKER P P	P4	2		
BARNETT C G	P3	15		
KEITH S M	P3	2		
LAWRENCE C A	P3	2		
LISAK D E	P3	1		
RUSSELL J B	P3	67		
BRYSON L S	P2	7		
PADDOCK M W	P2	24		
KASHEVAROV W V	P1	1		
SCHMID K E	P1	3		
KUTZ P T	T2	21		
LLANAS P A	T2	4		
BROWN B C	0	1		
HECKNER M J	0	0		
MCDOWELL L S	0	11		
MERKEL M A	0	2		
MOMON E A	0	3		
SCHULTZ D E	0	0		
SMITH C A	0	25		
TOTAL		216	TOTAL DOLLARS	4,384.61

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
MROZINSKI M	10.50	0.00	0.00	0.00	10.50			
RUSSELL J B	6.00	79.73	79.73	0.00	85.73			
SCHNEIDER J R	1.68	0.00	0.00	0.00	1.68			
SUBTOTAL	18.18	79.73	79.73	0.00	97.91			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					97.91			

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WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
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4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
-----	-----
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-308044 1.30
CADCOMPAQ DE 36.85
WAN-302573 0.38
WAN-302769 9.86
LAN-308042 0.95
WAN-308042 0.34
LAN-308045 6.28
LAN-302986 1.20
LAN-302769 5.98
LAN-302573 0.48
WAN-308045 0.33
CADCOMPAQ DE 43.88
LAN-308045 0.93
WAN-308044 17.12
OPTQMS PS220 46.20
OPTQMS PS220 6.30
CADCOMPAQ DE 21.27
LAN-308044 2.15
LAN-308211 86.80
LAN-302769 12.33
WAN-308044 0.77
WAN-302769 4.78
SYSCOMPAQ DE 1.06
USE-303043 3.65
WAN-302546 0.17
WAN-308045 2.26
SYSCOMPAQ DE 40.88
LAN-302986 1.13
USE-302546 0.10
LAN-302546 0.48

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5. OTHER DIRECT COSTS

ODC COMPUTER

USE-300268 0.41
WAN-302986 0.41
USE-300939 3.04
OPTQMS PS220 132.30
OPTQMS PS220 37.80
WAN-302359 1.93
SYSCOMPAQ DE 3.28
USE-302573 1.17
LAN-300948 19.55
LAN-300950 1.13
LAN-302359 5.35
USE-302769 18.63
USE-300948 33.63
LAN-302573 6.25
LAN-302573 0.65
WAN-308044 0.47
LAN-308211 0.50
USE-303083 9.45
USE-300925 9.20
LAN-302769 10.35
WAN-300948 15.64
WAN-308211 0.40
WAN-308211 52.24
SYSCOMPAQ DE 11.26
WAN-302769 8.28
WAN-302573 0.52
WAN-300925 4.28
WAN-302573 5.00
WAN-300948 9.50
LAN-308211 65.30
LAN-302986 2.05
LAN-308211 2.40
USE-300939 5.32
CADCOMPAQ DE 22.25
CADCOMPAQ DE 18.69
LAN-300948 11.88

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-308211 4.32
USE-300948 20.43
USE-300948 35.19
USE-308211 117.54
USE-300925 9.63
USE-300948 21.38
USE-302573 11.25
CADIBM PS/2 42.28
USE-308211 0.90
CADIBM PS/2 69.60
CADCOMPAQ DE 19.05
SYSCOMPAQ PO 8.29
SYSCOMPAQ PO 33.99
USE-302359 1.07
USE-300939 0.74
USE-303043 1.01
LAN-308044 47.55
WAN-300950 0.41
USE-302769 10.76
CADCOMPAQ DE 232.47
CADCOMPAQ DE 1.78
USE-302573 0.86
SYSCOMPAQ DE 2.24
WAN-302986 0.74
OPTQMS PS220 16.80
WAN-302986 0.43
CADCOMPAQ DE 8.54
SYSCOMPAQ PO 11.76
LAN-302986 0.43
WAN-302986 0.15
USE-300939 1.05
LAN-300950 0.90
USE-303043 3.13
SYSCOMPAQ PO 59.53
WAN-300950 0.32
WAN-308045 2.15

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR APR 92

REPORT: ACC335
PAGE: 26
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302017	0.93
WAN-302017	0.33
LAN-308042	-0.95
WAN-308042	-0.34
GDWMACINTOSH	3.81
LAN-308045	5.98
SYSCOMPAQ DE	35.00
WAN-308211	1.92
LAN-300925	5.35
CADCOMPAQ DE	2.31
SYSCOMPAQ SL	11.98
CADCOMPAQ DE	1.69
USE-302769	22.19
WAN-308211	69.44
USE-308211	156.24
CADCOMPAQ DE	309.01
USE-303043	0.20

ODC COMPUTER TOTAL 2,310.48

ODC REPROGRAPHICS

COPIER-8.5X1	14.58
BINDING	5.95
COPIER-8.5X1	81.00
BINDING	11.90
COPIER-8.5X1	372.60
BINDING	-1,071.00
BINDING	8.33

ODC REPROGRAPHICS TOTAL -576.64

ODC DOCUMENT PROC

DPWH-L 2400	2.01
DPWH-L 2400	224.44

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR APR 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC DOCUMENT PROC

DPWH-L 2400	10.15
DPWH-L 2400	4.37
DPWH-L 2400	10.15
DPWCOMPAQ DE	5.31
DPWH-L 2400	2.36
DPWH-L 2400	4.48
DPWCOMPAQ DE	5.66
DPWH-L 2400	6.14
DPWH-L 2400	21.36
DPWH-L 2400	29.62
DPWCOMPAQ DE	5.31
DPWH-L 2400	-4.48
DPWCOMPAQ DE	2.01
DPWH-L 2400	8.97
DPWH-L 2400	32.45
DPWCOMPAQ DE	4.25
DPWH-L 2400	28.20
DPWCOMPAQ DE	9.68

ODC DOCUMENT PROC TOTAL 412.44

ODC CHEM PROT SURCHG

H&S PROGRAM	17.60
H&S PROGRAM	1.76
H&S PROGRAM	3.52
H&S PROGRAM	19.36
H&S PROGRAM	44.00
H&S PROGRAM	10.56
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	3.52
H&S PROGRAM	7.04

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR APR 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC CHEM PROT SURCHG

H&S PROGRAM 10.56
 H&S PROGRAM 36.96

ODC CHEM PROT SURCHG TOTAL 172.48

ODC POSTAGE

POSTAGE/FRT 15.00
 FED EXP 27.75
 FED EXP 22.80
 FED EXP 27.75
 POSTAGE/FRT -46.25
 POSTAGE/FRT -11.00
 09FEDEXP 87.50
 POSTAGE/FRT 11.00
 POSTAGE/FRT 46.25
 24FEDEXP 3.99
 FED EXP 4.80

ODC POSTAGE TOTAL 189.59

ODC SUPPLIES

REPROGRAPHIC 80.71

ODC SUPPLIES TOTAL 80.71

TOTAL 2,589.06

6. OVERHEAD

Base	Rate	
4,384.61	0.4300	1,885.33

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
4,384.61	1.2500	5,480.79

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR APR 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	14,437.70	0.0300	433.13
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			433.13

17. TOTAL INVOICE AMOUNT 14,870.83

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
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 AS OF: 04/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		05/27/92 P	30+	5
Final Design - GWT	01/21/92		05/27/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Draft O&M Manual	04/13/92		04/29/92 P	16	10
Draft & Final Submittal	04/01/92		05/09/92 P	30+	11
Construction Schedule	04/13/92		05/09/92 P	26	12
Construction Cost Estimate	04/13/92		05/09/92 P	26	13
Final Bid Document of Design Support Submittals	04/24/92		05/27/92 P	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

=====
 NOTES:

MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$861.350
 AUTHORIZED BUDGET: \$861.350

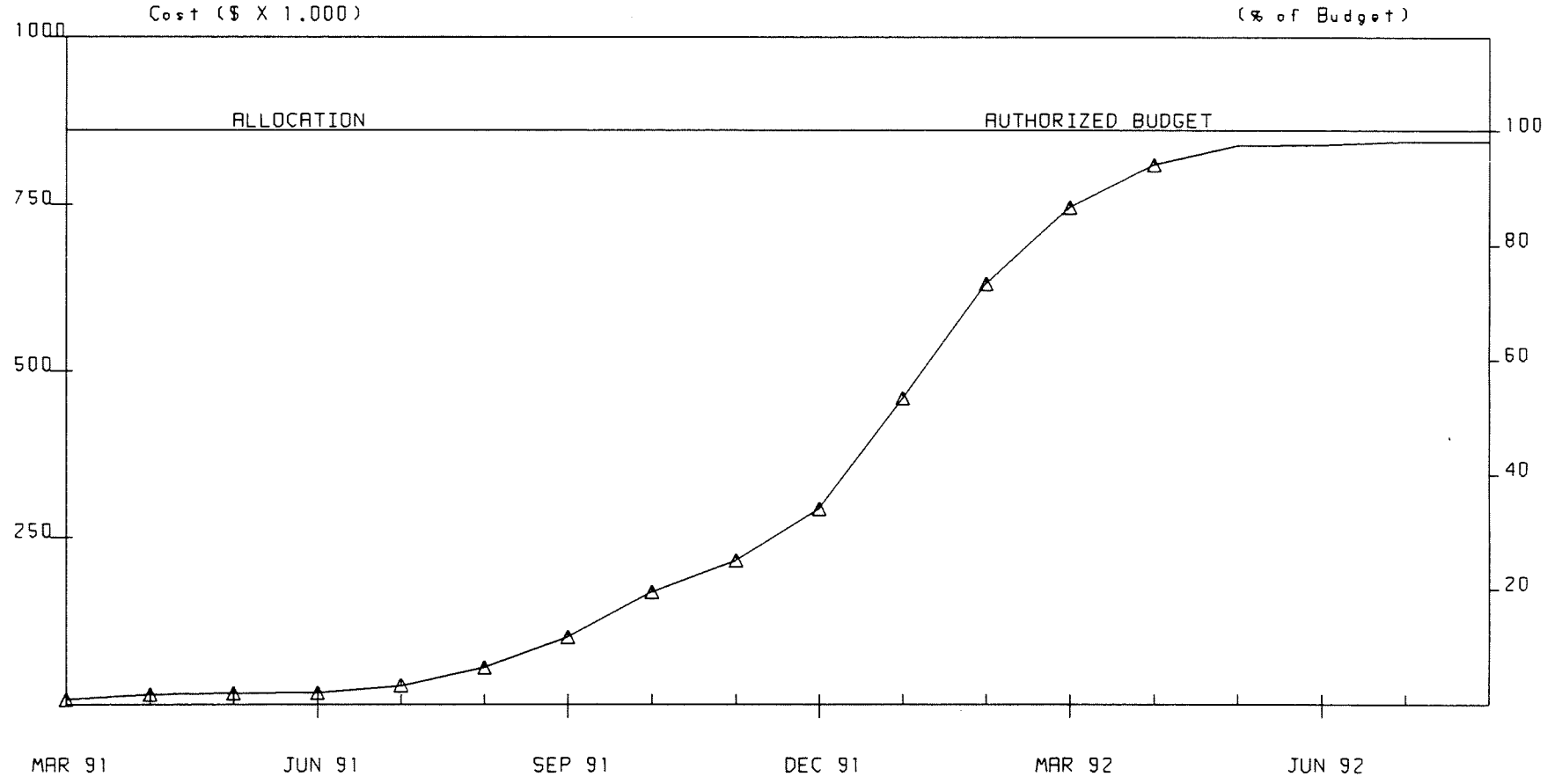
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 05/11/92
 RUN TIME: 11:34 AM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEEES)

April 1992



▲-▲-▲-▲ ACTUAL
 - - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
 _____ FORECAST (AUTHORIZED TASKS)

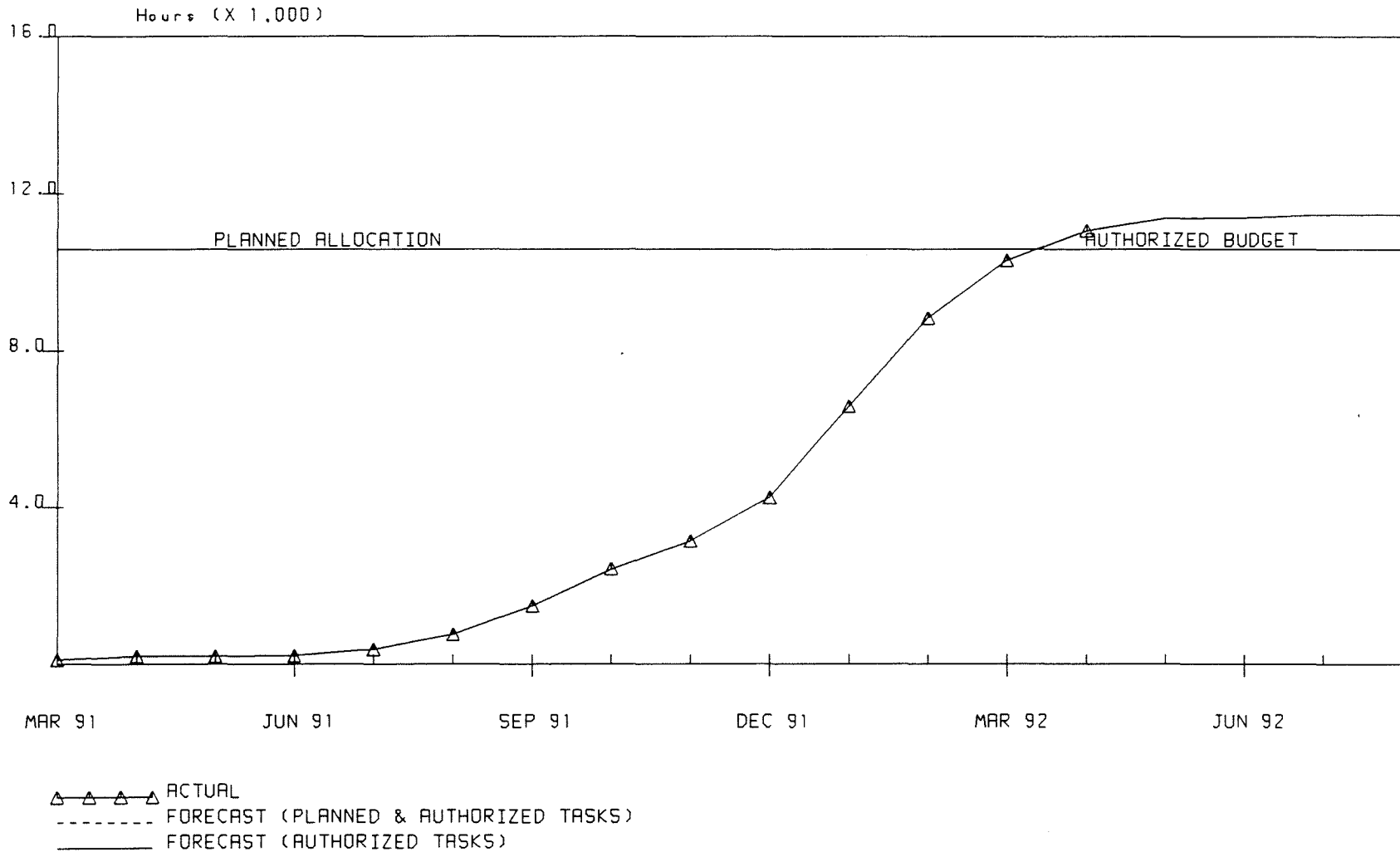
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 10.599
AUTHORIZED BUDGET: 10.599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5
ONALASKA MUNICIPAL LANDFILL, WI

REPORT: PRJ091
RUN DATE: 05/11/92
RUN TIME: 11:34 AM

PROFESSIONAL HOURS

April 1992



ARCS V TECHNICAL STATUS REPORT
May 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

DATE PREPARED: May 29, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The landfill cap design was revised based on EPA and WDNR comments received on May 19.

No comments were received on the groundwater treatment design. Comments are anticipated in the next reporting period. Progress on the groundwater treatment system design was limited to discussions with the WDNR regarding the anticipated system performance, predicted influent concentrations, and effluent criteria. A conference call between the EPA, WDNR, and CH2M HILL was held on May 13 to discuss effluent limits for the groundwater treatment facility. The issues discussed included ammonia limits and the capacity of the system to remove 4,4-DDD.

Revisions to the Groundwater Monitoring Plan and QAPP for the groundwater treatment portion of this assignment were completed and revised documents were submitted to the EPA for review.

A WPRR was submitted on May 28 to account for an extension of the project duration and for unanticipated costs in design due to interaction of the cap and treatment system designs.

2. Problems Resolved

No review comments on the groundwater treatment design have been received, but a review of the project schedule indicates that a delay in schedule of 2 to 3 weeks should not adversely affect the implementation schedule.

3. Problem Areas and Recommended Solutions

The WDNR has requested that CH2M HILL assist in development of a detailed startup plan. This work effort is outside the current work scope. The WAM has requested that WDNR perform as much of this work as possible, and limit CH2M HILL's involvement due to budgetary constraints. CH2M HILL will provide some, but limited, assistance in the preparation of these documents.

The current budget forecast estimates a project budget overrun. The SM has contacted the WAM about the expected overrun and the reasons for it. A WPRR was submitted on May 28.

4. Deliverables Submitted

The Prefinal Plans and Specifications for the Landfill Cap were submitted for review on May 1.

Revision No. 1 to the Landfill Cap CQAP was submitted for review on May 1.

The revised Groundwater Monitoring Plan, including the QAPP, was submitted on May 18.

5. Activities Planned Next Reporting Period

Comments on the landfill cap design will be incorporated and a final landfill cap design will be submitted to the EPA.

Comments on the groundwater treatment design are expected and work will commence on incorporating the comments in preparation of the final design.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

No travel activities this reporting period. Travel expenses for a meeting with the WDNR in Madison were incorrectly charged to this project and will be transferred for the next reporting period.

9. Laboratories

None.

10. Project Performance

The Contractor has responded to comments in a timely fashion and has maintained project schedule and turnaround time.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
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 AS OF: 05/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR				
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED	
65602DS										
Design Support Activities										
PM Project Management	C	100	91	4,001	0	0	4,001	4,948	946	3,911
QC Quality Control	C	100	0	2,929	0	0	2,929	5,107	2,177	2,929
ZZ General	A	100	-304	95	0	0	95		-95	399
MG Meetings (External)	C	100	671	739	0	0	739	10,221	9,482	68
GM Groundwater Monitoring Plan	A	100	2,902	26,621	0	0	26,621	29,355	2,734	25,691
MS Miscellaneous Support	A	0	0	0	0	0	5,457	5,456		
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785	1,060
Activity Total		100	3,360	35,445	0	0	35,445	56,933	21,485	34,058
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	A	61	985	20,847	0	13,192	34,039	20,556	-13,482	34,299
EC Estimates - Cost	C	100	0	16,478	0	0	16,478	15,185	-1,293	16,477
PM Project Management	C	100	32	20,637	0	0	20,637	14,645	-5,992	20,606
QC Quality Control	C	100	482	8,226	0	0	8,226	13,513	5,286	7,744
ZZ General	A	100	-204	809	0	0	809		-809	1,013
GX Groundwater Extraction Desig	C	100	0	15,209	0	0	15,209	23,907	8,697	15,210
GT Groundwater Treatment Design	C	100	-33	189,803	0	0	189,803	82,358	-107,445	189,836
MG Meetings (External)	C	100	77	2,436	0	0	2,436	7,397	4,961	2,359
ML Manuals - Operations and Mai	C	100	28	5,360	0	0	5,360	18,865	13,505	5,331
IT Insitu Treatment Design	C	100	9,761	43,668	0	0	43,668	42,863	-804	33,907
SL Construction Schedule Develo	C	100	87	15,687	0	0	15,687	25,836	10,149	15,600
Activity Total		96	11,213	339,161	0	13,192	352,353	265,125	-87,227	342,382
65602LC										
LANDFILL CAP DESIGN										
ZZ General	A	100	168	468	0	0	468		-468	301
WP EPA Workplan	C	100	0	4,841	0	0	4,841	6,877	2,035	4,842
QC Quality Control	C	100	0	12,929	0	0	12,929	14,743	1,813	12,929
PM Project Management	C	100	425	15,087	0	0	15,087	14,689	-398	14,664
PP Project Planning General	C	100	0	511	0	0	511	2,558	2,046	512
ED Existing Data Review	C	100	0	2,313	0	0	2,313	2,324	10	2,313
C1 Civil Engineering Design - G	C	100	0	17,150	0	0	17,150	15,866	-1,284	17,149
G1 Predesign - Geotechnical	C	100	0	8,399	0	0	8,399	7,133	-1,265	8,399
P1 Plans and Specifications - P	C	100	0	21,760	0	0	21,760	14,977	-6,782	21,760
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	0	5,758	6,897	1,138	5,757
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	0	3,773	4,492	718	3,773
G3 Geotechnical Eng - Intermedi	C	100	0	6,035	0	0	6,035	5,158	-877	6,035
P2 Plans and Specifications - I	C	100	-67	16,449	0	0	16,449	13,705	-2,743	16,516
C4 Civil Eng - Final Design	C	100	146	802	0	0	802	4,082	3,279	658
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	0	4,036	4,035	
P3 Plans and Specifications - F	A	74	3,149	12,927	0	4,655	17,582	18,722	1,139	18,657
EC Estimates - Cost	C	100	0	2,458	0	0	2,458	3,074	615	2,458

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
 RUN DATE: 06/09/92
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 AS OF: 05/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE		
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060	2,015
QS QAPP/SSP/FSP	C	100	0	8,066	0	0	8,066	7,954	-111	8,066
ML Manuals - Operations and Mai	C	100	888	3,321	0	0	3,321	6,526	3,205	2,432
HS Health and Safety	C	100	90	4,151	0	0	4,151	4,005	-145	4,059
MG Meetings (External)	C	100	3	3,564	0	0	3,564	3,452	-112	3,562
MS Miscellaneous Support	C	100	301	3,270	0	0	3,270	7,783	4,513	2,969
Activity Total		97	5,103	156,050	0	4,655	160,705	174,128	13,421	159,826
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	18	589	589	0	2,699	3,288	8,878	5,589	2,699
Activity Total		18	589	589	0	2,699	3,288	8,878	5,589	2,699
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590	2,450
PM Project Management	C	100	9	11,267	0	0	11,267	10,213	-1,053	11,256
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568	9,419
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288	11,342
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218	406
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103	22,093
H6 Haz Waste Design - Advanced	C	100	14	118,421	0	0	118,421	114,066	-4,355	118,408
H1 Haz Waste Design - Process E	C	100	0	52,600	0	0	52,600	50,635	-1,965	52,600
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382	3,381
C1 Civil Engineering Design - G	C	100	2,222	10,394	0	0	10,394	9,311	-1,083	8,173
ZZ General	A	100	34	-801	0	0	-801		800	-834
Activity Total		100	2,279	240,971	0	0	240,971	241,123	151	238,694
65602PP										
Project Planning - RD										
PM Project Management	A	92	-167	16,018	0	1,375	17,393	13,961	-3,432	18,738
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952	3,868
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268	1,610
WP EPA Workplan	C	100	-370	9,385	0	0	9,385	10,272	886	9,755
ZZ General	A	100	-15	320	0	0	320		-319	336
Activity Total		96	-553	31,203	0	1,375	32,578	29,029	-3,549	34,307
Work Assignment Total		97	21,991	803,420	0	21,921	825,341	775,215	-50,130	811,966

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS w/INVOICED FEE	22,639	832,720						
AUTH. TASKS w/EST. FULL FEE	23,636	891,335	23,894	915,228	861,350	-53,878		
ALL TASKS w/EST. FULL FEE		891,335	23,894	915,228				900,851

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

	JUN92	JUL92	AUG92	SEP92	OCT92	NOV92
	21,316	2,575	0	0	0	0
	912,651	915,226	915,226	915,226	915,226	915,226
<Overrun>						

Direct Labor	4,474	Indirects	7,515
Equipment	0	Base Fee	648
ODC	7,484	Award Fee	0
Subcontracts	2,437	Travel	81
Laboratory Service	0	TOTAL	22,639

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS					
Design Support Activities					
PM Project Management	C 100	2	56	0 56	64 8 54
QC Quality Control	C 100	0	35	0 35	64 29 35
ZZ General	A 0	-7	0	0 0	7
MG Meetings (External)	C 100	9	9	0 9	140 131
GM Groundwater Monitoring Plan	A 100	20	379	0 379	416 37 371
MS Miscellaneous Support	A 0	0	0	0 0	80 80
LS Landfill Cap Support	C 100	0	15	0 15	28 13 15
Activity Total	100	24	494	0 494	792 298 482
65602FD					
Prefinal/Final Design					
DS Plans and Specifications	A 44	0	110	140 250	300 50 260
EC Estimates - Cost	C 100	0	243	0 243	224 -19 243
PM Project Management	C 100	0	234	0 234	196 -38 234
QC Quality Control	C 100	6	100	0 100	160 60 94
ZZ General	A 100	0	8	0 8	-8 8
GX Groundwater Extraction Desig	C 100	0	233	0 233	328 95 233
GT Groundwater Treatment Design	C 100	0	2,929	0 2,929	1,160 -1,769 2,929
MG Meetings (External)	C 100	0	34	0 34	100 66 34
ML Manuals - Operations and Mai	C 100	0	56	0 56	272 216 56
IT Insitu Treatment Design	C 100	88	664	0 664	584 -80 576
SL Construction Schedule Develo	C 100	2	205	0 205	382 177 203
Activity Total	97	96	4,816	140 4,956	3,706 -1,250 4,870
65602LC					
LANDFILL CAP DESIGN					
ZZ General	A 100	0	4	0 4	-4 4
WP EPA Workplan	C 100	0	80	0 80	88 8 80
QC Quality Control	C 100	0	156	0 156	156 156
PM Project Management	C 100	5	206	0 206	178 -28 201
PP Project Planning General	C 100	0	9	0 9	30 21 9
ED Existing Data Review	C 100	0	39	0 39	36 -3 39
C1 Civil Engineering Design - G	C 100	0	254	0 254	232 -22 254
G1 Predesign - Geotechnical	C 100	0	132	0 132	102 -30 132
P1 Plans and Specifications - P	C 100	0	365	0 365	210 -155 365
R8 Report - 1st Draft Predesign	C 100	0	99	0 99	84 -15 99
C3 Civil Eng - Intermediate Des	C 100	0	65	0 65	72 7 65
G3 Geotechnical Eng - Intermedi	C 100	0	99	0 99	72 -27 99
P2 Plans and Specifications - I	C 100	-2	244	0 244	192 -52 246
C4 Civil Eng - Final Design	C 100	0	10	0 10	56 46 10
G4 Geotechnical Eng - Final Des	C 0	0	0	0 0	56 56
P3 Plans and Specifications - F	A 80	26	164	40 204	240 36 218
EC Estimates - Cost	C 100	0	48	0 48	48 48

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 06/09/92
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 AS OF: 05/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE		
SL Construction Schedule Develop	C	100	0	32	0	32	74	42	32	
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	112	
ML Manuals - Operations and Mai	C	100	10	45	0	45	88	43	35	
HS Health and Safety	C	100	1	63	0	63	40	-23	62	
MG Meetings (External)	C	100	0	57	0	57	48	-9	57	
MS Miscellaneous Support	C	100	5	56	0	56	96	40	51	
Activity Total		98	45	2,339	40	2,379	2,306	-73	2,374	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	17	8	8	40	48	140	92	40	
Activity Total		17	8	8	40	48	140	92	40	
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	47	0	47	120	73	47	
PM Project Management	C	100	0	154	0	154	148	-6	154	
QC Quality Control	C	100	0	122	0	122	84	-38	122	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	157	
HS Health and Safety	C	100	0	6	0	6	48	42	6	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	311	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	1,440	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	800	
MG Meetings (External)	C	100	0	51	0	51	80	29	51	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	123	
Activity Total		100	0	3,211	0	3,211	3,257	46	3,211	
65602PP										
Project Planning - RD										
PM Project Management	A	94	-5	150	9	159	192	33	173	
PP Project Planning General	C	100	0	50	0	50	40	-10	50	
QC Quality Control	C	100	0	22	0	22	24	2	22	
WP EPA Workplan	C	100	-5	123	0	123	142	19	128	
ZZ General	A	100	0	6	0	6		-6	6	
Activity Total		98	-10	351	9	360	398	38	379	
Work Assignment Total		98	163	11,219	229	11,448	10,599	-849	11,356	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 142
 RUN DATE: 06/09/92
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 AS OF: 05/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS	163	11,219	229	11,448	10,599	-849	
ALL TASKS		11,219	229	11,448			11,356

Projection: (Monthly/Cumulative)

	JUN92	JUL92	AUG92	SEP92	OCT92	NOV92
	195	34	0	0	0	0
	11,414	11,448	11,448	11,448	11,448	11,448

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

REPORT: ACC335
 PAGE: 1
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
JURY M W	P4	1		
SWANSON G J	P4	-2		
WANDERS S P	P4	-3		
KEITH S M	P3	2		
MASON R E	P3	-6		
RUSSELL J B	P3	-2		
HECKNER M J	0	0		
NAVARRO D M	0	2		
SMITH C A	0	0		
WILSON C L	0	3		
TOTAL		-5	TOTAL DOLLARS	-230.20

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE	29.40
WDCA-VAX8600	1.43
WDCA-VAX8600	16.28
ARCS 5	2.12
LAN-302073	13.13
WAN-302073	4.73
USE-302073	2.63

ODC COMPUTER TOTAL 69.72

ODC DOCUMENT PROC

DPWH-L 2400	2.01
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ODC DOCUMENT PROC TOTAL 2.01

ODC CHEM PROT SURCHG

H&S PROGRAM	3.52
H&S PROGRAM	-3.52

ODC CHEM PROT SURCHG TOTAL 0.00

ODC POSTAGE

POSTAGE/FRT	-17.50
FED EXP	4.80
FED EXP	4.80

ODC POSTAGE TOTAL -7.90

TOTAL 63.83

6. OVERHEAD

Base	Rate	
-230.20	0.4300	-99.02

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-230.20	1.2500	-287.75

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	-553.14	0.0300	-16.59	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-16.59

17. TOTAL INVOICE AMOUNT -569.73

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked			
OHLSSON B	P4	24			
RYBEL V W	P4	0			
DOHLEMAN S E	P3	3			
GEIGLER G A	P3	4			
RUSSELL J B	P3	3			
PADDOCK M W	P2	2			
KINSCHER N B	P1	2			
VEGA T O	P1	24			
LLANAS P A	T2	5			
OXLEY R I	T2	19			
SCHUETZ M M	T2	4			
SIEBERS R G	T2	6			
FAGA N M	0	0			
MCDOWELL L S	0	0			
MERKEL M A	0	2			
MOMON E A	0	2			
PIERSON M W	0	0			
TOTAL		100	TOTAL DOLLARS		2,228.32

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
Unidentified	12.60	0.00	0.00	0.00	12.60			
SUBTOTAL	12.60	0.00	0.00	0.00	12.60			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					12.60			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

CADCOMPAQ DE	308.65
CADCOMPAQ DE	75.92
CADCOMPAQ DE	4.01
LAN-302627	1.78
USE-302627	0.36
WAN-302221	6.30
CADCOMPAQ DE	28.04
WAN-302627	0.64
SYSCOMPAQ DE	3.98
LAN-302221	7.88
LAN-302084	157.13
USE-300948	15.39
LAN-308042	3.25
CADCOMPAQ DE	559.37
OPTQMS PS220	21.00
OPTQMS PS220	58.80
WAN-302017	2.23
WAN-302073	6.53
WAN-302358	1.36
OPTQMS PS220	6.30
WAN-302885	17.06
LAN-302073	18.13
USE-302360	1.38
WAN-302769	25.50
USE-302358	0.76
WAN-308211	2.80
LAN-308212	0.55
USE-302221	14.18
WAN-308264	3.30
USE-308264	1.84
USE-301434	0.10
USE-300948	16.11
OPTQMS PS220	25.20
OPTQMS PS220	58.80
SYSCOMPAQ DE	20.55
LAN-308264	9.18

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-301406	302.36
LAN-302017	6.20
WAN-308212	0.44
SYSCOMPAQ SL	15.46
OPTQMS PS220	67.20
CADCOMPAQ DE	597.99
SYSCOMPAQ DE	40.60
USE-308211	6.30
WAN-302573	70.26
LAN-302358	3.78
OPTQMS PS220	23.10
USE-302573	158.09
LAN-301406	167.98
USE-302221	64.53
WAN-301406	134.38
WAN-308042	1.17
CADCOMPAQ DE	113.48
CADCOMPAQ DE	9.52
CADCOMPAQ DE	2.94
CADCOMPAQ DE	127.63
LAN-300948	8.95
WAN-300948	7.16
USE-302073	3.63
LAN-308211	3.50
LAN-302769	31.88
USE-308212	0.99
GDWMACINTOSH	25.54
WAN-302084	125.70
CADCOMPAQ DE	1.96
SYSCOMPAQ DE	8.46
WAN-302221	28.68
USE-302769	57.38
LAN-302221	35.85
LAN-302573	87.83
USE-302084	282.83
LAN-302885	21.33

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-302885	38.39
LAN-308042	-3.25
WAN-308042	1.77
LAN-308042	4.93
SYSCOMPAQ DE	13.61
LAN-302073	6.08
USE-302073	1.22
WAN-308042	-1.17
LAN-302986	3.68
WAN-302986	1.32
WAN-302073	2.19
SYSCOMPAQ DE	1.06
CADIBM PS/2	31.86

ODC COMPUTER TOTAL 4,231.13

ODC REPROGRAPHICS

BINDING	7.14
COPIER-8.5X1	29.38
BINDING	-7.14
COPIER-8.5X1	-29.38

ODC REPROGRAPHICS TOTAL 0.00

ODC DOCUMENT PROC

DPWH-L 2400	-15.34
DPWH-L 2400	-4.01
DPWH-L 2400	23.25
DPWH-L 2400	-2.71
DPWH-L 2400	5.90
DPWCOMPAQ DE	17.35
DPWH-L 2400	15.34
DPWH-L 2400	2.71
DPWH-L 2400	4.01

ODC DOCUMENT PROC TOTAL 46.50

ODC CHEM PROT SURCHG

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC CHEM PROT SURCHG

H&S PROGRAM	5.28	
ODC CHEM PROT SURCHG TOTAL	5.28	

ODC POSTAGE

FED EXP	11.25	
POSTAGE/FRT	9.25	
POSTAGE/FRT	-13.25	
POSTAGE/FRT	13.25	
ODC POSTAGE TOTAL	20.50	

ODC SUPPLIES

COMMERCIAL C	627.73	
COMMERCIAL C	205.20	
COMMERCIAL C	42.20	
SUPPLIES	-45.49	
SUPPLIES	-102.29	
SUPPLIES	102.29	
SUPPLIES	45.49	
ODC SUPPLIES TOTAL	875.13	

TOTAL		5,178.54
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6. OVERHEAD

Base	Rate	
2,228.32	0.4300	958.01

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
2,228.32	1.2500	2,785.41

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			50.57
TOTAL SUBCONTRACTS			50.57

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	11,162.88	0.0300	334.89
SPECIAL SUB POOL	50.57	0.0250	1.26
TOTAL BASE FEE			336.15

17. TOTAL INVOICE AMOUNT 11,549.60

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

1. DIRECT LABOR

Name	P Level	Hours Worked			
SANDRIN J A	P4	3			
LAMONT J J	P3	9			
MACGREGOR D C	P3	17			
KASHEVAROF W V	P1	-4			
KUTZ P T	T2	-3			
SHEKOSKI D L	T2	2			
FAGA N M	0	4			
HECKNER M J	0	10			
MCDOWELL L S	0	3			
PENNOCK C D	0	0			
SMITH C A	0	15			
TOTAL		56	TOTAL DOLLARS		957.87

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
KEITH S M	71.40	0.00	0.00	0.00	71.40			
LAMONT J J	0.00	9.91	9.91	0.00	9.91			
SUBTOTAL	71.40	9.91	9.91	0.00	81.31			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					81.31			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-308044 5.61
WAN-308045 6.30
WAN-301853 1.79
WAN-308044 3.37
SYSCOMPAQ DE 19.10
GDWMACINTOSH 7.31
SYSCOMPAQ SL 11.14
LAN-302073 8.53
WAN-301584 0.64
LAN-308044 9.35
USE-302073 1.71
LAN-308045 17.50
USE-301853 1.00
LAN-308044 15.58
LAN-301853 4.98
WAN-302073 3.07
LAN-301584 1.78
WAN-302607 4.41
LAN-308042 2.20
SYSCOMPAQ DE 27.44
WAN-302794 1.79
USE-302607 2.45
USE-302794 1.00
WAN-308042 0.79
WAN-308172 0.22
SYSCOMPAQ DE 11.14
LAN-302794 4.98
LAN-302607 12.25

ODC COMPUTER TOTAL 187.43

ODC REPROGRAPHICS

COPIER-8.5X1 37.91
COPIER-8.5X1 3.40
24 8.33

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC REPROGRAPHICS

COPIER-8.5X1	56.70
BINDING	5.95
BINDING	-5.95

ODC REPROGRAPHICS TOTAL 106.34

ODC DOCUMENT PROC

DPWH-L 2400	82.60
DPWH-L 2400	44.13
DPWH-L 2400	73.51
DPWH-L 2400	10.38
DPWH-L 2400	2.83

ODC DOCUMENT PROC TOTAL 213.45

ODC CHEM PROT SURCHG

H&S PROGRAM	15.84
H&S PROGRAM	29.92
H&S PROGRAM	3.17

ODC CHEM PROT SURCHG TOTAL 48.93

ODC SUPPLIES

BADGER BLUEP	79.12
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ODC SUPPLIES TOTAL 79.12

TOTAL 635.27

6. OVERHEAD

Base	Rate	
957.87	0.4300	411.89

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
957.87	1.2500	1,197.34

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			76.20
TOTAL SUBCONTRACTS			76.20

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	3,283.68	0.0300	98.51
SPECIAL SUB POOL	76.20	0.0250	1.91
TOTAL BASE FEE			100.42

17. TOTAL INVOICE AMOUNT 3,460.30

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
MASON R E	P3	8	
TOTAL		8	204.96

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER	Cost
WDCA-VAX8600	2.88
WDCA-VAX8600	32.92
ARCS 5	4.28
ODC COMPUTER TOTAL	40.08
TOTAL	40.08

6. OVERHEAD

Base	Rate	Total
204.96	0.4300	88.12

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
204.96	1.2500	256.20

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----	-----	-----	-----
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
-----	-----	-----	-----
LINES 1 THROUGH 8	589.36	0.0300	17.68
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			17.68

17. TOTAL INVOICE AMOUNT 607.04

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
MCDOWELL L S	0	1		
NAVARRO D M	0	0		
TOTAL		1	TOTAL DOLLARS	5.17

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
Unidentified	-12.60	0.00	0.00	0.00	-12.60			
SUBTOTAL	-12.60	0.00	0.00	0.00	-12.60			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					-12.60			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302627	-1.78
LAN-302221	-7.88
WAN-302627	-0.64
CADCOMPAQ DE	-28.04
WAN-302221	-6.30
USE-302221	-14.18
SYSCOMPAQ DE	-3.98
USE-302627	-0.36

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC COMPUTER

OPHP 7600 E	119.00
USE-302546	0.10
LAN-302546	0.50
SYSCOMPAQ DE	1.12
WAN-302546	0.18

ODC COMPUTER TOTAL 57.74

TOTAL 57.74

6. OVERHEAD

Base	Rate	
5.17	0.4300	2.23

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
5.17	1.2500	6.46

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
ENVIRONMENTAL & FOUNDATION DRILLING	SOIL BORINGS	UP	2,220.00
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			2,220.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

14. BASE FEE

Base	Rate	Total
-----	-----	-----

14. BASE FEE

	Base	Rate	Total
	-----	-----	-----
LINES 1 THROUGH 8	59.00	0.0300	1.77
SPECIAL SUB POOL	2,220.00	0.0250	55.50
TOTAL BASE FEE			57.27

17. TOTAL INVOICE AMOUNT

2,336.27

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
NUTT R M	P4	-2		
RUSSELL J B	P3	47		
SITARZ V L	T1	0		
HECKNER M J	0	1		
KOCH P J	0	9		
MCDOWELL L S	0	9		
MOMON E A	0	1		
SMITH C A	0	12		
TOTAL		77	TOTAL DOLLARS	1,307.56

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-308045	6.54
LAN-308045	18.18
WAN-308044	1.03
WAN-308042	1.39
WAN-302084	11.98
LAN-302084	14.98
USE-300939	0.26
LAN-308211	37.95
OPTQMS PS220	12.60
WAN-302017	0.76
GDWMACINTOSH	3.81
LAN-302017	0.93
OPTHP 7600 E	17.00
OPTQMS PS220	75.60
USE-300948	1.08
LAN-300948	0.60
WAN-302017	0.33
WAN-308042	1.30
LAN-308042	3.60
WAN-302986	0.08
CADIBM PS/2	2.14
WAN-300948	0.48
CADIBM PS/2	14.06
WAN-308211	30.36
LAN-308042	3.85
USE-302546	1.61
GDWMACINTOSH	-3.81
WAN-302017	-0.33
LAN-302017	-0.93
USE-308211	68.31
SYSCOMPAQ DE	17.98
SYSCOMPAQ PO	2.91
LAN-302017	2.10
LAN-308045	0.38
LAN-308045	3.40
LAN-308044	2.85

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-300948	7.11
WAN-308045	0.14
USE-302084	26.96
WAN-308045	1.22
LAN-302546	8.03
LAN-308042	3.35
GDWMACINTOSH	8.65
WAN-300948	3.16
USE-303083	2.30
LAN-300948	3.95
OPTQMS PS220	8.40
WAN-308042	1.21
USE-300948	1.03
WAN-302546	2.89
USE-300948	6.79
LAN-302986	0.23
CADCOMPAQ DE	53.31
CADCOMPAQ DE	135.10
CADCOMPAQ DE	4.54

ODC COMPUTER TOTAL 633.73

ODC REPROGRAPHICS

COPIER-8.5X1	4.05
COPIER-8.5X1	147.07
COPIER-8.5X1	31.75
24	20.79
24	16.20
BINDING	5.95
24	48.60
BINDING	5.95

ODC REPROGRAPHICS TOTAL 280.36

ODC DOCUMENT PROC

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC DOCUMENT PROC

DPWH-L 2400 85.79
DPWH-L 2400 18.17
DPWH-L 2400 12.27
DPWH-L 2400 16.05
DPWH-L 2400 19.47
DPWH-L 2400 8.14
DPWH-L 2400 16.99
DPWH-L 2400 13.45
DPWH-L 2400 14.51
DPWH-L 2400 1.77
DPWH-L 2400 2.71
DPWH-L 2400 43.54
DPWH-L 2400 15.81
DPWH-L 2400 9.91
DPWCOMPAG DE 1.06
DPWH-L 2400 57.35

ODC DOCUMENT PROC TOTAL 336.99

ODC CHEM PROT SURCHG

H&S PROGRAM 1.76
H&S PROGRAM 17.60
H&S PROGRAM 8.80
H&S PROGRAM 45.76
H&S PROGRAM 8.80

ODC CHEM PROT SURCHG TOTAL 82.72

ODC POSTAGE

FED EXP 3.99
FED EXP 8.04
FED EXP 4.80
FED EXP 8.04
FED EXP 3.99

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC POSTAGE

FED EXP	3.99
POSTAGE/FRT	17.50
POSTAGE/FRT	87.50
POSTAGE/FRT	-87.50

ODC POSTAGE TOTAL 50.35

ODC SUPPLIES

COMMERCIAL C 94.50

ODC SUPPLIES TOTAL 94.50

ODC OTHER

INQUIRE/MILW 30.23

ODC OTHER TOTAL 30.23

TOTAL 1,508.88

6. OVERHEAD

Base	Rate	
1,307.56	0.4300	562.16

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
1,307.56	1.2500	1,634.44

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR MAY 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			89.83
TOTAL SUBCONTRACTS			89.83

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	5,013.04	0.0300	150.39
SPECIAL SUB POOL	89.83	0.0250	2.25
TOTAL BASE FEE			152.64

17. TOTAL INVOICE AMOUNT 5,255.51

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 06/09/92
 RUN TIME: 02:07
 AS OF: 05/92

MILESTONE	----- WORKPLAN -----		---- DELIVERY ----			
	ORIGINAL DATE	REVISED DATE	PLANNED = P	VARI-ANCE	NOTE	ACTUAL = A
Design Support Activities						
GW Monitoring Plan	10/15/91		01/31/92	A	30+	1
Prefinal/Final Design						
Prefinal Design - GWT	11/20/91		03/31/92	A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92	A	30+	3
Draft O&M Manual	10/28/91		04/09/92	A	30+	4
Final Design - ISB	01/13/92		06/30/92	P	30+	5
Final Design - GWT	01/21/92		06/30/92	P	30+	6
LANDFILL CAP DESIGN						
Dredged Sediment Evaluation Memo	12/09/91		12/09/91	A		7
60 Percent Design Submittal	01/28/92		01/28/92	A		8
90 Percent Design Submittal	03/04/92		03/25/92	A	21	9
Construction Schedule	04/13/92		04/28/92	A	15	10
Construction Cost Estimate	04/13/92		04/28/92	A	15	11
Draft O&M Manual	04/13/92		04/28/92	A	15	12
Draft & Final Submittal	04/01/92		05/01/92	A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/05/92	P	30+	14
Preliminary Design						
Bioremediation QAPP	07/07/91		08/14/91	A	30+	15
Predesign Report - GWT	08/30/91		10/18/91	A	30+	16
Predesign Report - ISB	08/23/91		01/31/92	A	30+	17
Project Planning - RD						
Work Assignment Received by CH2M HILL	03/04/91		03/04/91	A		18
Submit Final Work Plan	04/17/91		04/17/91	A		19
Submit Revised Final Work Plan	05/23/91		05/23/91	A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91	A	30+	21

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NOTES:

MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$861.350
 AUTHORIZED BUDGET: \$861.350

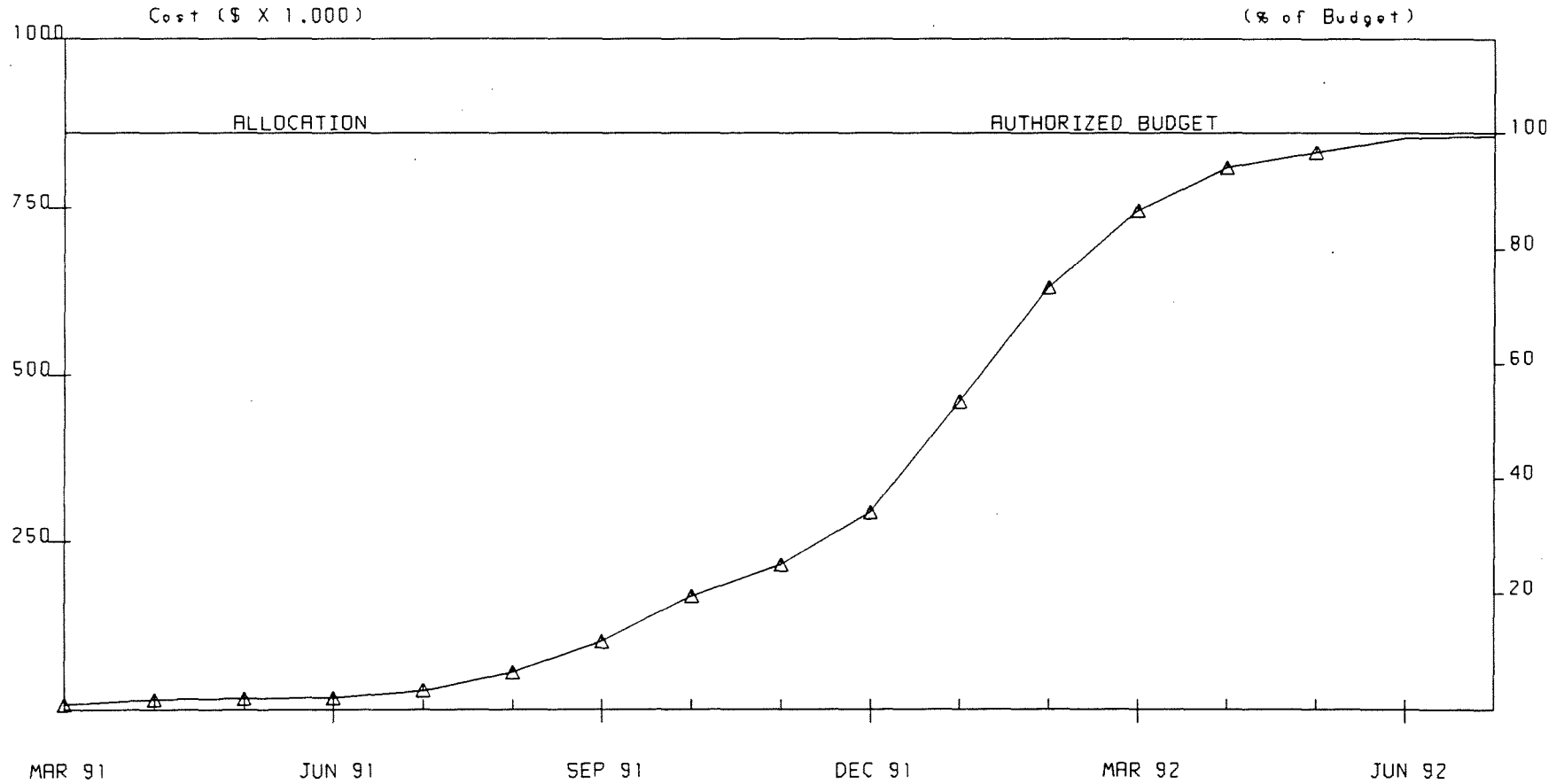
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 06/09/92
 RUN TIME: 03:32 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

May 1992



▲▲▲▲ ACTUAL
 - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
 _____ FORECAST (AUTHORIZED TASKS)

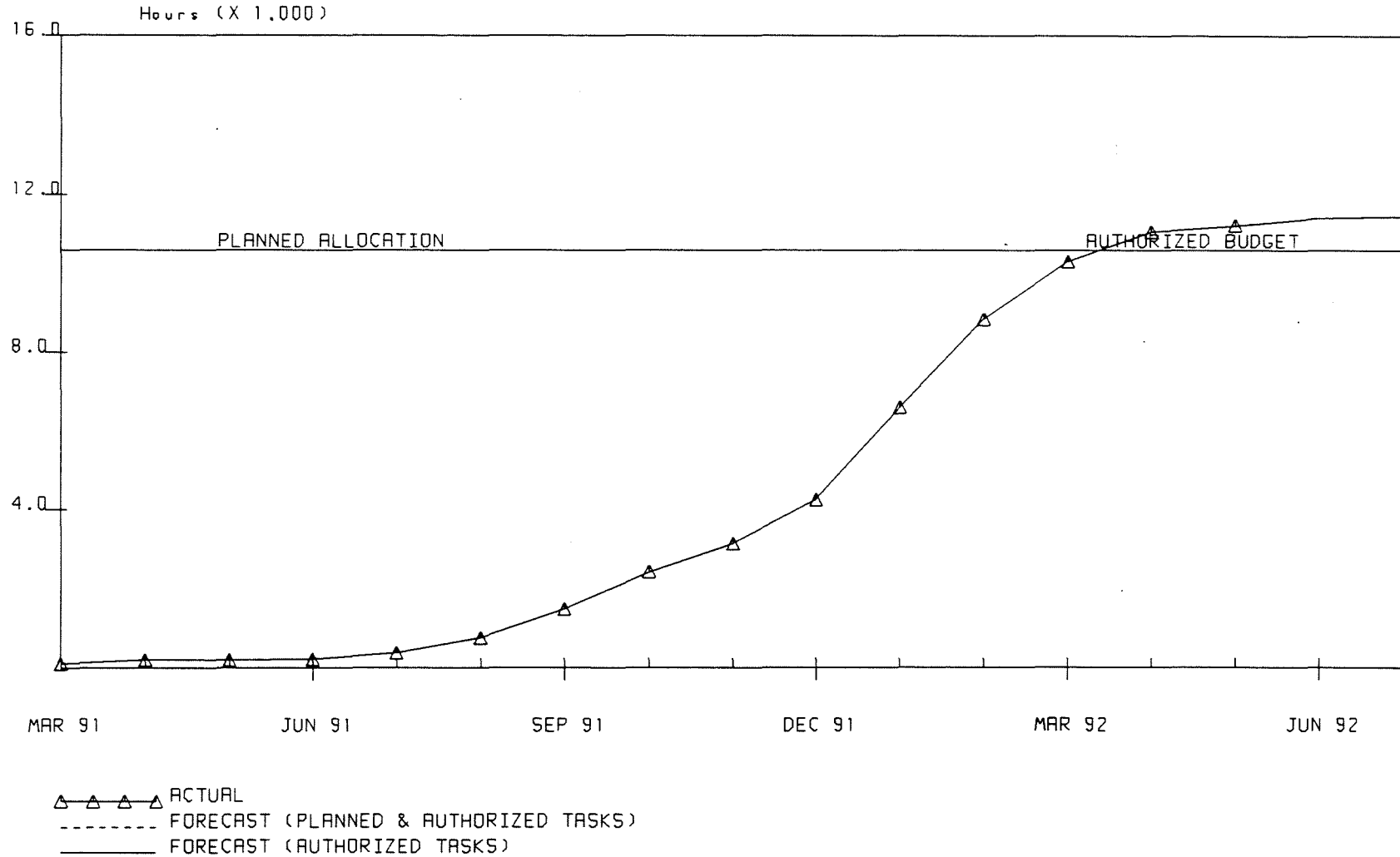
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 10.599
AUTHORIZED BUDGET: 10.599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 06/09/92
RUN TIME: 03:32 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

May 1992



ARCS V TECHNICAL STATUS REPORT

June 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: June 30, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison *Paul K.*

1. Progress Made This Reporting Period

Final changes were made to the drawings and specifications for the Landfill Cap Remedial Action design. The final documents were submitted to the EPA and to prospective subcontractors on June 15.

The final Construction Quality Assurance Plan for the landfill cap was submitted to the EPA on June 19.

While waiting for comments from the WDNR, the plans and specifications for the Groundwater Remedial Action prefinal design were internally reviewed. Some preliminary review comments on the Groundwater Remedial Action prefinal design were received and the revisions were initiated.

2. Problems Resolved

Review of the Groundwater Remedial Action prefinal design documents has not been completed by the WDNR. The SM contacted the WAM and it was agreed that to maintain the schedule for construction of the groundwater remedial action concurrent with the landfill cap (and thereby minimize construction management costs), revisions to the Groundwater Remedial Action design drawings and specifications, based on the comments to date, should be initiated. Any further changes will be addressed through addendum.

3. Problem Areas and Recommended Solutions

A budget overrun is projected and a WPRR was submitted during the last reporting period. To minimize costs incurred, the project should be closed as soon as possible. All tasks have been closed with the exception of those required to make revisions to the Groundwater Remedial Action design. The revisions to the Groundwater Remedial Action design are being initiated to close the project as soon as possible.

4. Deliverables Submitted

The final Construction Quality Assurance Plan for the landfill cap was issued on June 19. The final landfill cap design documents were submitted on June 15.

5. Activities Planned Next Reporting Period

Revisions to the Groundwater Remedial Action design will be completed and the revised set of plans and specifications will be issued as a draft final. Any subsequent modifications will be performed through addendums during the RA phase.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

The Contractor has kept the WAM informed of the project schedule and has executed the work in a timely manner.

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 07/09/92
 RUN TIME: 03:39 PM
 AS OF: 06/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR				
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED	
65602DS										
Design Support Activities										
PM Project Management	C	100	0	4,001	0	0	4,001	4,948	946	3,911
QC Quality Control	C	100	0	2,929	0	0	2,929	5,107	2,177	2,929
ZZ General	C	100	-101	-6	0	0	-6		5	399
MG Meetings (External)	C	100	0	739	0	0	739	10,221	9,482	68
GM Groundwater Monitoring Plan	C	100	305	26,926	0	0	26,926	29,355	2,428	25,691
MS Miscellaneous Support	C	0	0	0	0	0	0	5,457	5,456	
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785	1,060
Activity Total		100	204	35,649	0	0	35,649	56,933	21,279	34,058
65602FD										
Prefinal/Final Design										
DS Plans and Specifications	A	70	9	20,855	0	9,139	29,994	20,556	-9,438	34,299
EC Estimates - Cost	C	100	0	16,478	0	0	16,478	15,185	-1,293	16,477
PM Project Management	C	100	70	20,707	0	0	20,707	14,645	-6,062	20,606
QC Quality Control	C	100	0	8,226	0	0	8,226	13,513	5,286	7,744
ZZ General	A	100	-1,093	-283	0	0	-283		283	1,013
GX Groundwater Extraction Design	C	100	119	15,328	0	0	15,328	23,907	8,578	15,210
GT Groundwater Treatment Design	C	100	149	189,952	0	0	189,952	82,358	-107,594	189,836
MG Meetings (External)	C	100	0	2,436	0	0	2,436	7,397	4,961	2,359
ML Manuals - Operations and Mai	C	100	0	5,360	0	0	5,360	18,865	13,505	5,331
IT Insitu Treatment Design	C	100	3,855	47,524	0	0	47,524	42,863	-4,660	33,907
SL Construction Schedule Develo	C	100	380	16,068	0	0	16,068	25,836	9,768	15,600
Activity Total		97	3,490	342,651	0	9,139	351,790	265,125	-86,666	342,382
65602LC										
LANDFILL CAP DESIGN										
ZZ General	C	100	-485	-17	0	0	-17		16	301
WP EPA Workplan	C	100	0	4,841	0	0	4,841	6,877	2,035	4,842
QC Quality Control	C	100	0	12,929	0	0	12,929	14,743	1,813	12,929
PM Project Management	C	100	0	15,087	0	0	15,087	14,689	-398	14,664
PP Project Planning General	C	100	0	511	0	0	511	2,558	2,046	512
ED Existing Data Review	C	100	0	2,313	0	0	2,313	2,324	10	2,313
C1 Civil Engineering Design - G	C	100	0	17,150	0	0	17,150	15,866	-1,284	17,149
G1 Predesign - Geotechnical	C	100	0	8,399	0	0	8,399	7,133	-1,265	8,399
P1 Plans and Specifications - P	C	100	0	21,760	0	0	21,760	14,977	-6,782	21,760
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	0	5,758	6,897	1,138	5,757
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	0	3,773	4,492	718	3,773
G3 Geotechnical Eng - Intermedi	C	100	0	6,035	0	0	6,035	5,158	-877	6,035
P2 Plans and Specifications - I	C	100	225	16,674	0	0	16,674	13,705	-2,968	16,516
C4 Civil Eng - Final Design	C	100	69	872	0	0	872	4,082	3,210	658
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	0	4,036	4,035	
P3 Plans and Specifications - F	C	100	1,814	14,741	0	0	14,741	18,722	3,980	18,657
EC Estimates - Cost	C	100	0	2,458	0	0	2,458	3,074	615	2,458

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
 RUN DATE: 07/09/92
 RUN TIME: 03:39 PM
 AS OF: 06/92

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	AT COMPLETE	BUDGET		VARIANCE
SL Construction Schedule Develop	C	100	0	2,016	0	0	2,016	5,076	3,060	2,015
QS QAPP/SSP/FSP	C	100	0	8,066	0	0	8,066	7,954	-111	8,066
ML Manuals - Operations and Mai	C	100	47	3,368	0	0	3,368	6,526	3,158	2,432
HS Health and Safety	C	100	0	4,151	0	0	4,151	4,005	-145	4,059
MG Meetings (External)	C	100	19	3,583	0	0	3,583	3,452	-131	3,562
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513	2,969
Activity Total		100	1,689	157,739	0	0	157,739	174,128	16,386	159,826
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	20	0	589	0	2,372	2,961	8,878	5,916	2,699
Activity Total		20	0	589	0	2,372	2,961	8,878	5,916	2,699
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590	2,450
PM Project Management	C	100	10	11,277	0	0	11,277	10,213	-1,063	11,256
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568	9,419
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288	11,342
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218	406
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103	22,093
H6 Haz Waste Design - Advanced	C	100	0	118,421	0	0	118,421	114,066	-4,355	118,408
H1 Haz Waste Design - Process E	C	100	0	52,600	0	0	52,600	50,635	-1,965	52,600
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382	3,381
C1 Civil Engineering Design - G	C	100	52	10,446	0	0	10,446	9,311	-1,135	8,173
ZZ General	C	100	-84	-885	0	0	-885		884	-834
Activity Total		100	-22	240,950	0	0	240,950	241,123	173	238,694
65602PP										
Project Planning - RD										
PM Project Management	A	100	561	16,579	0	0	16,579	13,961	-2,617	18,738
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952	3,868
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268	1,610
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886	9,755
ZZ General	A	100	549	869	0	0	869		-868	336
Activity Total		100	1,110	32,312	0	0	32,312	29,029	-3,283	34,307
Work Assignment Total		99	6,471	809,890	0	11,511	821,401	775,215	-46,195	811,966

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 861,350

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	PCT. STATUS	EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	----- WP/WPRR -----			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED

AUTH. TASKS w/INVOICED FEE	6,664	839,384							
AUTH. TASKS w/EST. FULL FEE	7,077	898,412			12,604	911,016	861,350	-49,665	
ALL TASKS w/EST. FULL FEE		898,412			12,604	911,016			900,851

Projection: (Monthly/Cumulative)

	JUL92	AUG92	SEP92	OCT92	NOV92	DEC92
	12,603	0	0	0	0	0
	911,015	911,015	911,015	911,015	911,015	911,015
<Overrun>						

Current Cost Invoiced:

Direct Labor	1,860	Indirects	3,125
Equipment	0	Base Fee	193
ODC	1,275	Award Fee	0
Subcontracts	211	Travel	0
Laboratory Service	0	TOTAL	6,664

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
65602DS								
Design Support Activities								
PM Project Management	C 100	0	56	0	56	64	8	54
QC Quality Control	C 100	0	35	0	35	64	29	35
ZZ General	C 0	0	0	0	0			7
MG Meetings (External)	C 100	0	9	0	9	140	131	
GM Groundwater Monitoring Plan	C 100	0	379	0	379	416	37	371
MS Miscellaneous Support	C 0	0	0	0	0	80	80	
LS Landfill Cap Support	C 100	0	15	0	15	28	13	15
Activity Total	100	0	494	0	494	792	298	482
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	A 55	0	110	90	200	300	100	260
EC Estimates - Cost	C 100	0	243	0	243	224	-19	243
PM Project Management	C 100	0	234	0	234	196	-38	234
QC Quality Control	C 100	0	100	0	100	160	60	94
ZZ General	A 0	-8	0	0	0			8
GX Groundwater Extraction Desig	C 100	0	233	0	233	328	95	233
GT Groundwater Treatment Design	C 100	1	2,930	0	2,930	1,160	-1,770	2,929
MG Meetings (External)	C 100	0	34	0	34	100	66	34
ML Manuals - Operations and Mai	C 100	0	56	0	56	272	216	56
IT Insitu Treatment Design	C 100	44	708	0	708	584	-124	576
SL Construction Schedule Develo	C 100	9	214	0	214	382	168	203
Activity Total	98	46	4,862	90	4,952	3,706	-1,246	4,870
65602LC								
LANDFILL CAP DESIGN								
ZZ General	C 0	-4	0	0	0			4
WP EPA Workplan	C 100	0	80	0	80	88	8	80
QC Quality Control	C 100	0	156	0	156	156		156
PM Project Management	C 100	0	206	0	206	178	-28	201
PP Project Planning General	C 100	0	9	0	9	30	21	9
ED Existing Data Review	C 100	0	39	0	39	36	-3	39
C1 Civil Engineering Design - G	C 100	0	254	0	254	232	-22	254
G1 Predesign - Geotechnical	C 100	0	132	0	132	102	-30	132
P1 Plans and Specifications - P	C 100	0	365	0	365	210	-155	365
R8 Report - 1st Draft Predesign	C 100	0	99	0	99	84	-15	99
C3 Civil Eng - Intermediate Des	C 100	0	65	0	65	72	7	65
G3 Geotechnical Eng - Intermedi	C 100	0	99	0	99	72	-27	99
P2 Plans and Specifications - I	C 100	4	248	0	248	192	-56	246
C4 Civil Eng - Final Design	C 100	0	10	0	10	56	46	10
G4 Geotechnical Eng - Final Des	C 0	0	0	0	0	56	56	
P3 Plans and Specifications - F	C 100	16	180	0	180	240	60	218
EC Estimates - Cost	C 100	0	48	0	48	48		48

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 10,599

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
SL Construction Schedule Develo	C	100	0	32	0	32	74	42	32
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	112
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43	35
HS Health and Safety	C	100	0	63	0	63	40	-23	62
MG Meetings (External)	C	100	0	57	0	57	48	-9	57
MS Miscellaneous Support	C	100	0	56	0	56	96	40	51
Activity Total		100	16	2,355	0	2,355	2,306	-49	2,374
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	17	0	8	40	48	140	92	40
Activity Total		17	0	8	40	48	140	92	40
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	47
PM Project Management	C	100	0	154	0	154	148	-6	154
QC Quality Control	C	100	0	122	0	122	84	-38	122
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	157
HS Health and Safety	C	100	0	6	0	6	48	42	6
R7 Report - Predesign	C	100	0	311	0	311	264	-47	311
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	1,440
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	800
MG Meetings (External)	C	100	0	51	0	51	80	29	51
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	123
Activity Total		100	0	3,211	0	3,211	3,257	46	3,211
65602PP									
Project Planning - RD									
PM Project Management	A	100	0	150	0	150	192	42	173
PP Project Planning General	C	100	0	50	0	50	40	-10	50
QC Quality Control	C	100	0	22	0	22	24	2	22
WP EPA Workplan	C	100	0	123	0	123	142	19	128
ZZ General	A	100	9	15	0	15		-15	6
Activity Total		100	9	360	0	360	398	38	379
Work Assignment Total		99	71	11,290	130	11,420	10,599	-821	11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
BOERSMA P M	P3	9		
MCDOWELL L S	0	1		
NAVARRO D M	0	6		
SMITH C A	0	0		
WILSON C L	0	2		
TOTAL		18	TOTAL DOLLARS	297.97

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

WDCA-VAX8600	3.20
WDCA-VAX8600	90.62
WDCA-VAX8600	7.66
WAN-302073	4.37
SYSCOMPAQ DE	27.22
LAN-302073	12.15

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC COMPUTER

ARCS 5 11.36
CVOEN2-V4000 9.12
USE-302073 2.43

ODC COMPUTER TOTAL 168.13

ODC REPROGRAPHICS

COPIER-8.5X1 35.80

ODC REPROGRAPHICS TOTAL 35.80

ODC DOCUMENT PROC

DPWH-L 2400 2.83
DPWH-L 2400 -2.01
DPWH-L 2400 4.48
DPWH-L 2400 4.48
DPWH-L 2400 20.06
DPWH-L 2400 2.01

ODC DOCUMENT PROC TOTAL 31.85

ODC CHEM PROT SURCHG

H&S PROGRAM 15.84

ODC CHEM PROT SURCHG TOTAL 15.84

ODC POSTAGE

FED EXP 3.99
24POSTAGE 4.49
FED EXP 10.25

ODC POSTAGE TOTAL 18.73

TOTAL 270.35

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

6. OVERHEAD

Base	Rate	
297.97	0.4300	128.11

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
297.97	1.2500	372.47

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			40.86
TOTAL SUBCONTRACTS			40.86

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	1,068.90	0.0300	32.07	
SPECIAL SUB POOL	40.86	0.0250	1.02	
TOTAL BASE FEE				33.09

17. TOTAL INVOICE AMOUNT 1,142.85

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
NAGEL R E	P4	8		
OHLSSON B	P4	2		
SCHMIEGE M A	P4	3		
YOLO R A	P4	0		
BOERSMA P M	P3	2		
MADAY M A	P3	4		
SCHULTZ L J	P3	5		
AMUNDSON L A	P2	8		
PADDOCK M W	P2	5		
KINSCHER N B	P1	9		
BROWN B C	0	0		
COLE D F	0	1		
MOMON E A	0	0		
SMITH C A	0	0		
TOTAL		47	TOTAL DOLLARS	1,141.45

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-308042D	4.93
WAN-308042D	1.77
OPTHP 7600 E	119.00
USE-3025739	5.42
WAN-3020569	13.08
WAN-3025739	2.52
CADCOMPAQ DE	11.21
LAN-3020569	12.43
LAN-3025739	3.15
USE-3020569	29.43
OPTIMAGEN LA	54.60
USE-3025739	5.67
OPTHP 7600 E	68.00
CADCOMPAQ DE	58.21
OPTHP 7600 E	25.50
LAN-308042D	-4.93
WAN-308042D	-1.77

ODC COMPUTER TOTAL 408.22

ODC DOCUMENT PROC

DPWH-L 2400	23.25
DPWH-L 2400	3.19
DPWH-L 2400	-23.25

ODC DOCUMENT PROC TOTAL 3.19

ODC CHEM PROT SURCHG

H&S PROGRAM	3.52
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ODC CHEM PROT SURCHG TOTAL 3.52

TOTAL 414.93

6. OVERHEAD

Base	Rate	
1,141.45	0.4300	490.81

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
1,141.45	1.2500	1,426.82

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			15.75
TOTAL SUBCONTRACTS			15.75

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	3,474.01	0.0300	104.22
SPECIAL SUB POOL	15.75	0.0250	0.39
TOTAL BASE FEE			104.61

17. TOTAL INVOICE AMOUNT 3,594.37

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE	11.14
LAN-302794S	4.98
USE-302794S	1.00
WAN-302794S	1.79
WAN-308172S	0.22
WAN-300950	3.95
LAN-300950	10.98
WAN-308172S	-0.22
USE-302794S	-1.00
LAN-302794S	-4.98
SYSCOMPAQ DE	-11.14

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-302794S	-1.79
USE-302607	10.09
SYSCOMPAQ DE	113.01
LAN-302607	50.45
WAN-302607	18.16

ODC COMPUTER TOTAL 206.64

ODC DOCUMENT PROC

DPWH-L 2400	2.83
DPWCOMPAQ DE	51.80
DPWH-L 2400	-2.83

ODC DOCUMENT PROC TOTAL 51.80

ODC POSTAGE

FED EXP	4.80
FED EXP	6.42

ODC POSTAGE TOTAL 11.22

ODC SUPPLIES

SUPPLIES	-79.12
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ODC SUPPLIES TOTAL -79.12

TOTAL 190.54

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			13.60
TOTAL SUBCONTRACTS			13.60

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	190.54	0.0300	5.72
SPECIAL SUB POOL	13.60	0.0250	0.34
TOTAL BASE FEE			6.06

17. TOTAL INVOICE AMOUNT 210.20

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
KUHNS R J	0	0		
TOTAL		0	TOTAL DOLLARS	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

SYSCOMPAQ DE	48.05
USE-30307B	4.29
OPTHP 7600 E	-119.00
ODC COMPUTER TOTAL	-66.66

ODC POSTAGE

FED EXP	9.00
FED EXP	9.00

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CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC POSTAGE

FED EXP	9.00
FED EXP	9.00
FED EXP	9.00
ODC POSTAGE TOTAL	45.00

TOTAL -21.66

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PD.00:Preliminary Design

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	-21.66	0.0300	-0.65	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-0.65
17. TOTAL INVOICE AMOUNT				-22.31

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
NUTT R M	P4	3		
SLOAN III A	P4	2		
RUSSELL J B	P3	4		
PADDOCK M W	P2	0		
KASHEVAROF W V	P1	3		
KUTZ P T	T2	4		
HECKNER M J	0	1		
MCDOWELL L S	0	1		
SMITH C A	0	2		
TOTAL		20	TOTAL DOLLARS	420.67

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302546	0.45
LAN-302359	6.20
LAN-300950	2.75
SYSCOMPAQ DE	1.01
OPHP 7600 E	59.50
WAN-302017	0.76
SYSCOMPAQ SL	6.94
GDWMACINTOSH	8.65
LAN-302017	2.10
WAN-300950	0.99
WAN-302546	0.16
WAN-302359	2.23
OPTQMS PS220	60.90
LAN-302769	23.80
WAN-308044	0.43
USE-302769	42.84
USE-302359	1.24
SYSCOMPAQ SL	6.94
USE-302546	0.09
LAN-308044	1.20
WAN-302769	19.04
CADCOMPAQ DE	84.73
USE-302769	40.94

ODC COMPUTER TOTAL 373.89

ODC DOCUMENT PROC

DPWH-L 2400	57.35
DPWH-L 2400	5.66
DPWH-L 2400	2.60
DPWH-L 2400	5.66
DPWCOMPAQ DE	12.98
DPWH-L 2400	-57.35
DPWH-L 2400	13.33

ODC DOCUMENT PROC TOTAL 40.23

ODC CHEM PROT SURCHG

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC CHEM PROT SURCHG		

H&S PROGRAM	7.04	
ODC CHEM PROT SURCHG TOTAL	7.04	
ODC POSTAGE		

POSTAGE/FRT	3.99	
POSTAGE/FRT	-3.99	
ODC POSTAGE TOTAL	0.00	
ODC SUPPLIES		

SUPPLIES	94.50	
SUPPLIES	-94.50	
ODC SUPPLIES TOTAL	0.00	
ODC OTHER		

MISC-OTHER	30.23	
MISC-OTHER	-30.23	
ODC OTHER TOTAL	0.00	
TOTAL		421.16

6. OVERHEAD

Base	Rate	
-----	-----	
420.67	0.4300	180.89

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
420.67	1.2500	525.84

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUN 92

REPORT: ACC335
 PAGE: 16
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			140.35
TOTAL SUBCONTRACTS			140.35

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	1,548.56	0.0300	46.46
SPECIAL SUB POOL	140.35	0.0250	3.51
TOTAL BASE FEE			49.97

17. TOTAL INVOICE AMOUNT 1,738.88

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
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MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		07/30/92 P	30+	5
Final Design - GWT	01/21/92		07/30/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

=====

NOTES:

MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$861.350
 AUTHORIZED BUDGET: \$861.350

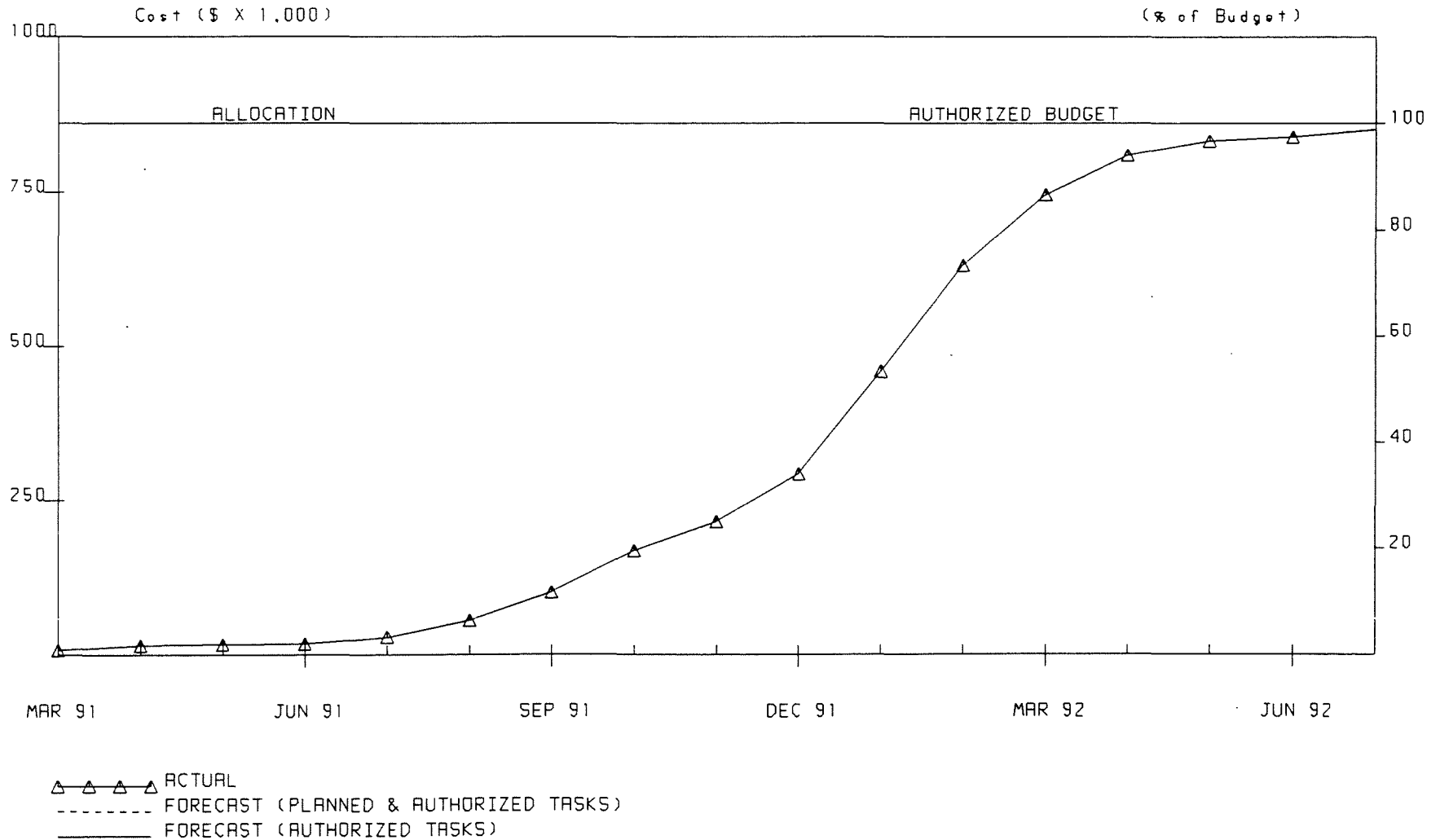
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 07/09/92
 RUN TIME: 05:27 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

June 1992



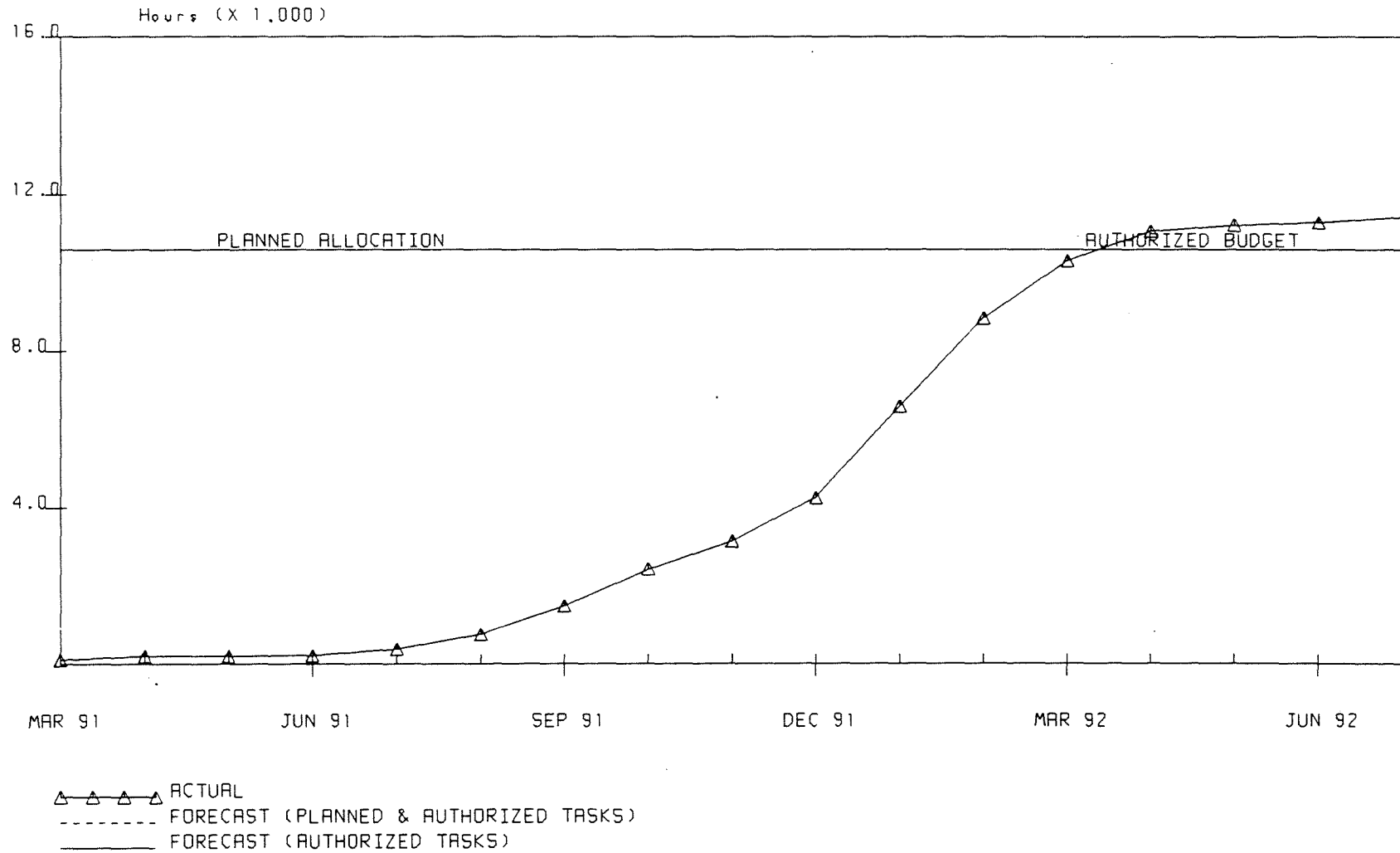
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 10.599
AUTHORIZED BUDGET: 10.599

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 07/09/92
RUN TIME: 05:27 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

June 1992



Paul

ARCS V TECHNICAL STATUS REPORT
July 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: July 31, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Comments on the groundwater treatment design and the In Situ Bioremediation Predesign Report were received. The SM and WAM reviewed the comments together by conference call on July 17. A response to the comments was prepared on July 31.

Modifications to the groundwater treatment design were initiated and final design drawings and specifications should be issued sometime during the first week of August.

2. Problems Resolved

Sufficient comments were received to finalize the groundwater treatment design.

WPRR No. 4 was approved on June 30.

3. Problem Areas and Recommended Solutions

Reviewers for the WDNR identified several concerns regarding the design of the groundwater treatment facility and the in situ bioremediation system. Responses to the comments should have addressed most of their concerns.

However, some concerns relate more to policy issues and must be resolved with the WDNR.

4. Deliverables Submitted

Responses to comments on the groundwater remedial design were issued on July 31.

5. Activities Planned Next Reporting Period

The final design for the groundwater treatment remedial action will be submitted for approval.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

The SM has limited the design staff to making only changes necessary to the design. This has minimized the work effort needed by limiting the number of staff involved and by controlling the sequence of changes made by each of the technical disciplines.

GLT225/038.51

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 08/10/92
 RUN TIME: 03:18 PM
 AS OF: 07/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	C	100	10	4,011	0	0	4,011	4,948	936
QC Quality Control	C	100	0	2,929	0	0	2,929	5,107	2,177
ZZ General	C	100	0	-6	0	0	-6		5
MG Meetings (External)	C	100	0	739	0	0	739	10,221	9,482
GM Groundwater Monitoring Plan	C	100	0	26,926	0	0	26,926	29,355	2,428
MS Miscellaneous Support	C	0	0	0	0	0	5,457		5,456
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		100	10	35,659	0	0	35,659	56,933	21,269
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	100	0	20,855	0	0	20,855	20,556	-299
EC Estimates - Cost	C	100	69	16,547	0	0	16,547	15,185	-1,361
PM Project Management	C	100	0	20,707	0	0	20,707	16,598	-4,109
QC Quality Control	C	100	0	8,226	0	0	8,226	13,513	5,286
ZZ General	A	100	2,545	2,261	0	0	2,261		-2,261
GX Groundwater Extraction Desig	C	100	0	15,328	0	0	15,328	23,907	8,578
GT Groundwater Treatment Design	C	100	318	190,270	0	0	190,270	112,057	-78,212
MG Meetings (External)	C	100	0	2,436	0	0	2,436	7,397	4,961
ML Manuals - Operations and Mai	C	100	0	5,360	0	0	5,360	18,865	13,505
IT Insitu Treatment Design	C	100	0	47,524	0	0	47,524	42,863	-4,660
SL Construction Schedule Develo	C	100	-233	15,835	0	0	15,835	25,836	10,001
Activity Total		100	2,698	345,349	0	0	345,349	296,777	-48,571
65602LC									
LANDFILL CAP DESIGN									
ZZ General	C	100	0	-17	0	0	-17		16
WP EPA Workplan	C	100	0	4,841	0	0	4,841	6,877	2,035
QC Quality Control	C	100	0	12,929	0	0	12,929	14,743	1,813
PM Project Management	C	100	0	15,087	0	0	15,087	14,689	-398
PP Project Planning General	C	100	0	511	0	0	511	2,558	2,046
ED Existing Data Review	C	100	0	2,313	0	0	2,313	2,324	10
C1 Civil Engineering Design - G	C	100	0	17,150	0	0	17,150	15,866	-1,284
G1 Predesign - Geotechnical	C	100	0	8,399	0	0	8,399	7,133	-1,265
P1 Plans and Specifications - P	C	100	0	21,760	0	0	21,760	14,977	-6,782
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	0	5,758	6,897	1,138
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	0	3,773	4,492	718
G3 Geotechnical Eng - Intermedi	C	100	0	6,035	0	0	6,035	5,158	-877
P2 Plans and Specifications - I	C	100	0	16,674	0	0	16,674	13,705	-2,968
C4 Civil Eng - Final Design	C	100	0	872	0	0	872	4,082	3,210
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	4,036		4,035
P3 Plans and Specifications - F	C	100	-675	14,067	0	0	14,067	18,722	4,655
EC Estimates - Cost	C	100	0	2,458	0	0	2,458	3,074	615

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060
QS QAPP/SSP/FSP	C	100	0	8,066	0	0	8,066	7,954	-111
ML Manuals - Operations and Mai	C	100	0	3,368	0	0	3,368	6,526	3,158
HS Health and Safety	C	100	0	4,151	0	0	4,151	4,005	-145
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513
Activity Total		100	-675	157,065	0	0	157,065	174,128	17,061
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	0	589	0	0	589	8,878	8,288
Activity Total		100	0	589	0	0	589	8,878	8,288
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103
H6 Haz Waste Design - Advanced	C	100	0	118,421	0	0	118,421	114,066	-4,355
H1 Haz Waste Design - Process E	C	100	0	52,600	0	0	52,600	50,635	-1,965
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382
C1 Civil Engineering Design - G	C	100	0	10,446	0	0	10,446	9,311	-1,135
ZZ General	C	100	-45	-930	0	0	-930		929
Activity Total		100	-45	240,905	0	0	240,905	241,123	218
65602PP									
Project Planning - RD									
PM Project Management	A	100	245	16,823	0	0	16,823	17,858	1,034
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886
ZZ General	A	100	-867	1	0	0	1		-1
Activity Total		100	-623	31,690	0	0	31,690	32,926	1,235
Work Assignment Total		100	1,367	811,257	0	0	811,257	810,764	-500

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS w/INVOICED FEE	1,408	840,791						
AUTH. TASKS w/EST. FULL FEE	1,528	899,940	0	899,940	900,849	908		
ALL TASKS w/EST. FULL FEE		899,940	0	899,940				0

Projection: (Monthly/Cumulative)

AUG92	SEP92	OCT92	NOV92	DEC92	JAN93
0	0	0	0	0	0
899,940	899,940	899,940	899,940	899,940	899,940

Current Cost Invoiced:

Direct Labor	220	Indirects	369
Equipment	0	Base Fee	41
ODC	774	Award Fee	0
Subcontracts	4	Travel	0
Laboratory Service	0	TOTAL	1,408

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
65602DS									
Design Support Activities									
PM Project Management	C	100	0	56	0	56	64	8	
QC Quality Control	C	100	0	35	0	35	64	29	
MG Meetings (External)	C	100	0	9	0	9	140	131	
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37	
MS Miscellaneous Support	C	0	0	0	0	0	80	80	
LS Landfill Cap Support	C	100	0	15	0	15	28	13	
Activity Total			100	0	494	0	494	792	298
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	100	0	110	0	110	300	190	
EC Estimates - Cost	C	100	0	243	0	243	224	-19	
PM Project Management	C	100	0	234	0	234	236	2	
QC Quality Control	C	100	0	100	0	100	160	60	
ZZ General	A	100	46	46	0	46		-46	
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95	
GT Groundwater Treatment Design	C	100	6	2,936	0	2,936	1,797	-1,139	
MG Meetings (External)	C	100	0	34	0	34	100	66	
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216	
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124	
SL Construction Schedule Develo	C	100	-9	205	0	205	382	177	
Activity Total			100	43	4,905	0	4,905	4,383	-522
65602LC									
LANDFILL CAP DESIGN									
WP EPA Workplan	C	100	0	80	0	80	88	8	
QC Quality Control	C	100	0	156	0	156	156		
PM Project Management	C	100	0	206	0	206	178	-28	
PP Project Planning General	C	100	0	9	0	9	30	21	
ED Existing Data Review	C	100	0	39	0	39	36	-3	
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22	
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30	
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155	
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15	
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7	
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27	
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56	
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46	
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56	
P3 Plans and Specifications - F	C	100	-8	172	0	172	240	68	
EC Estimates - Cost	C	100	0	48	0	48	48		
SL Construction Schedule Develo	C	100	0	32	0	32	74	42	
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43	
HS Health and Safety	C	100	0	63	0	63	40	-23	
MG Meetings (External)	C	100	0	57	0	57	48	-9	
MS Miscellaneous Support	C	100	0	56	0	56	96	40	
Activity Total		100	-8	2,347	0	2,347	2,306	-41	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	0	8	0	8	140	132	
Activity Total		100	0	8	0	8	140	132	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	
PM Project Management	C	100	0	154	0	154	148	-6	
QC Quality Control	C	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	
HS Health and Safety	C	100	0	6	0	6	48	42	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	
MG Meetings (External)	C	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	
Activity Total		100	0	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	A	100	1	151	0	151	272	121	
PP Project Planning General	C	100	0	50	0	50	40	-10	
QC Quality Control	C	100	0	22	0	22	24	2	
WP EPA Workplan	C	100	0	123	0	123	142	19	
ZZ General	A	0	-15	0	0	0			
Activity Total		100	-14	346	0	346	478	132	
Work Assignment Total		100	21	11,311	0	11,311	11,356	45	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
BOERSMA P M	P3	-9		
KEITH S M	P3	1		
OLSON A G	P1	-6		
NAVARRO D M	0	1		
SMITH C A	0	0		
STEWART B J	0	0		
TOTAL		-13	TOTAL DOLLARS	-275.62

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

ARCS 5	4.55
LAN-20000800	35.05
LAN-20000800	3.07
GDWMACINTOSH	1.03
WAN-302017	0.09

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC COMPUTER		

LAN-302017	0.25	
ODC COMPUTER TOTAL	44.04	
ODC CHEM PROT SURCHG		

H&S PROGRAM	1.76	
H&S PROGRAM	-15.84	
ODC CHEM PROT SURCHG TOTAL	-14.08	
ODC POSTAGE		

POSTAGE/FRT	45.00	
POSTAGE/FRT	4.80	
POSTAGE/FRT	10.47	
ODC POSTAGE TOTAL	60.27	
ODC SUPPLIES		

SUPPLIES	21.70	
ODC SUPPLIES TOTAL	21.70	
TOTAL		111.93

6. OVERHEAD

Base	Rate	
-----	-----	
-275.62	0.4300	-118.52

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
-275.62	1.2500	-344.53

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			4.13
TOTAL SUBCONTRACTS			4.13

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-626.74	0.0300	-18.80
SPECIAL SUB POOL	4.13	0.0250	0.10
TOTAL BASE FEE			-18.70

17. TOTAL INVOICE AMOUNT -641.31

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
OHLSSON B	P4	5		
KINSCHER N B	P1	-9		
OLSON A G	P1	6		
KUTZ P T	T2	14		
OXLEY R	T2	22		
PIERONI J A	T2	5		
TOTAL		43	TOTAL DOLLARS	746.93

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

USE-308211	1.71
USE-303084	19.26
USE-302769	39.65
WAN-302769	17.62
WAN-308211	0.76

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-308217	0.38
WAN-308212	5.40
WAN-302885	7.54
CADCOMPAQ DE	33.55
LAN-302885	9.43
USE-302885	16.97
CADCOMPAQ DE	38.09
USE-302769	37.88
CADCOMPAQ DE	3.38
OPTQMS PS220	8.40
USE-308212	12.15
CADCOMPAQ DE	78.41
USE-308217	0.21
OPTQMS PS220	12.60
OPTQMS PS220	16.80
CADCOMPAQ DE	24.03
SYSCOMPAQ DE	2.35
LAN-308211	0.95
LAN-308212	6.75
LAN-302769	22.03
OPTQMS PS220	29.40
LAN-308217	1.05
OPTQMS PS220	33.60
ODC COMPUTER TOTAL	480.35

ODC CHEM PROT SURCHG

H & S PROGRA	1.76
H & S PROGRA	66.88
H & S PROGRA	45.76
H & S PROGRA	14.08
H & S PROGRA	45.76
H & S PROGRA	26.40
H & S PROGRA	15.84

ODC CHEM PROT SURCHG TOTAL 216.48

TOTAL 696.83

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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

6. OVERHEAD

Base	Rate	
746.93	0.4300	321.06

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
746.93	1.2500	933.67

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	2,698.49	0.0300	80.95
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			80.95

17. TOTAL INVOICE AMOUNT 2,779.44

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

1. DIRECT LABOR

Name	P Level	Hours Worked		
TOTAL			0	TOTAL DOLLARS 0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL		0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost		
TOTAL			0.00

5. OTHER DIRECT COSTS

ODC POSTAGE		
POSTAGE/FRT		10.25
ODC POSTAGE TOTAL		10.25
TOTAL		10.25

6. OVERHEAD

Base	Rate		
0.00	0.4300		0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	10.25	0.0300	0.31	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				0.31

17. TOTAL INVOICE AMOUNT 10.56

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
-----		-----	-----
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose

SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
-----		-----
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC POSTAGE		

POSTAGE/FRT	-45.00	
ODC POSTAGE TOTAL	-45.00	
TOTAL		-45.00

6. OVERHEAD

Base	Rate	TOTAL
-----		-----
0.00	0.4300	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

REPORT: ACC335
 PAGE: 10
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 RUN TIME: 12:25 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-45.00	0.0300	-1.35
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			-1.35

17. TOTAL INVOICE AMOUNT -46.35

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
NUTT R M	P4	-3		
SLOAN III A	P4	-2		
KASHEVAROF W V	P1	-3		
TOTAL		-8	TOTAL DOLLARS	-251.70

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

TOTAL	0.00
-------	------

6. OVERHEAD

Base	Rate	
-251.70	0.4300	-108.23

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-251.70	1.2500	-314.63

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JUL 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-674.56	0.0300	-20.24
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			-20.24

17. TOTAL INVOICE AMOUNT -694.80

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 08/10/92
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 AS OF: 07/92

MILESTONE	----- WORKPLAN -----		---- DELIVERY ----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 P	30+	5
Final Design - GWT	01/21/92		08/07/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

=====
 NOTES:

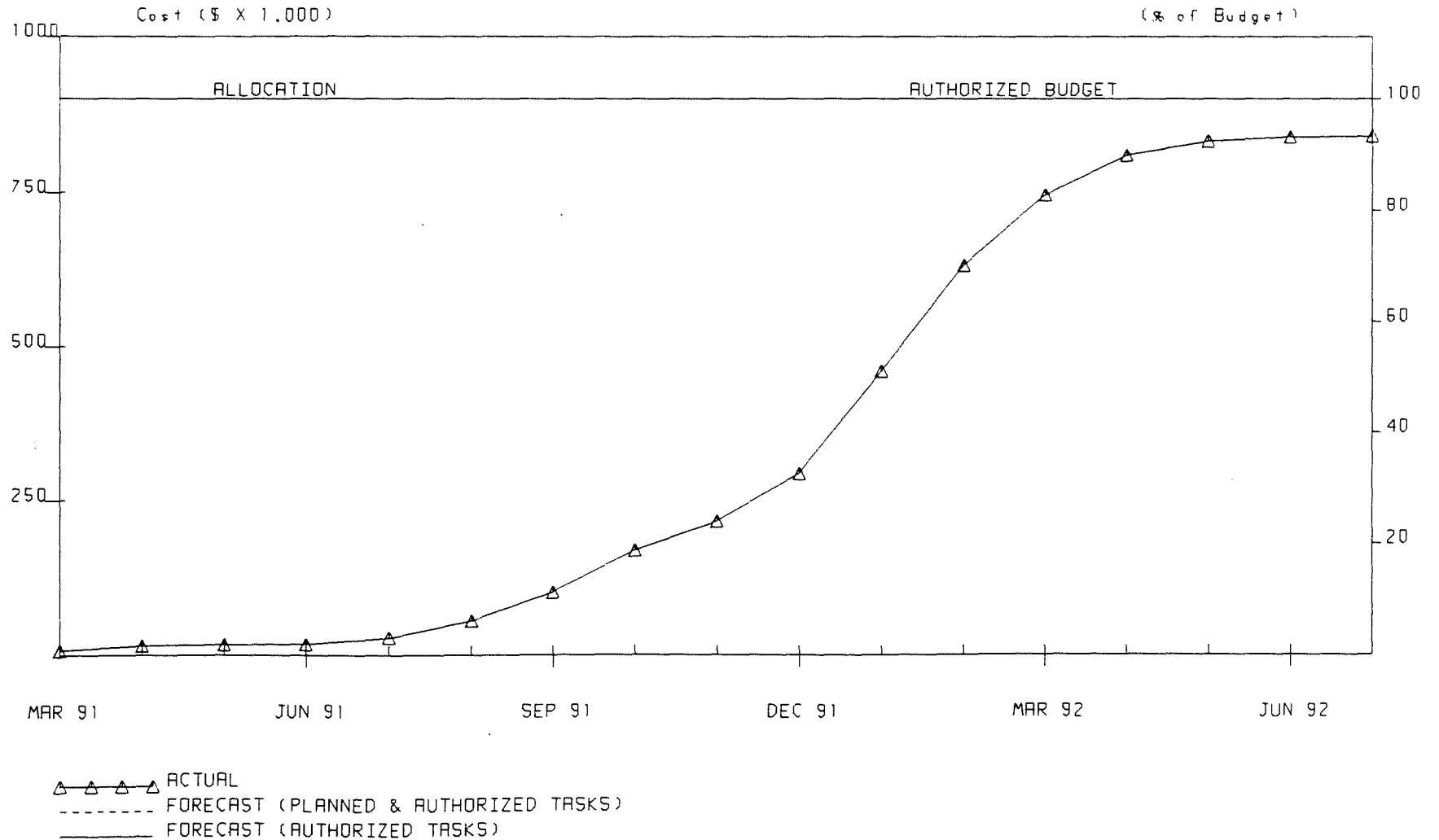
MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$900.849
 AUTHORIZED BUDGET: \$900.849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 08/10/92
 RUN TIME: 09:34 AM

ONALASKA MUNICIPAL LANDFILL, WI
 TOTAL COSTS (W/FEES)

July 1992



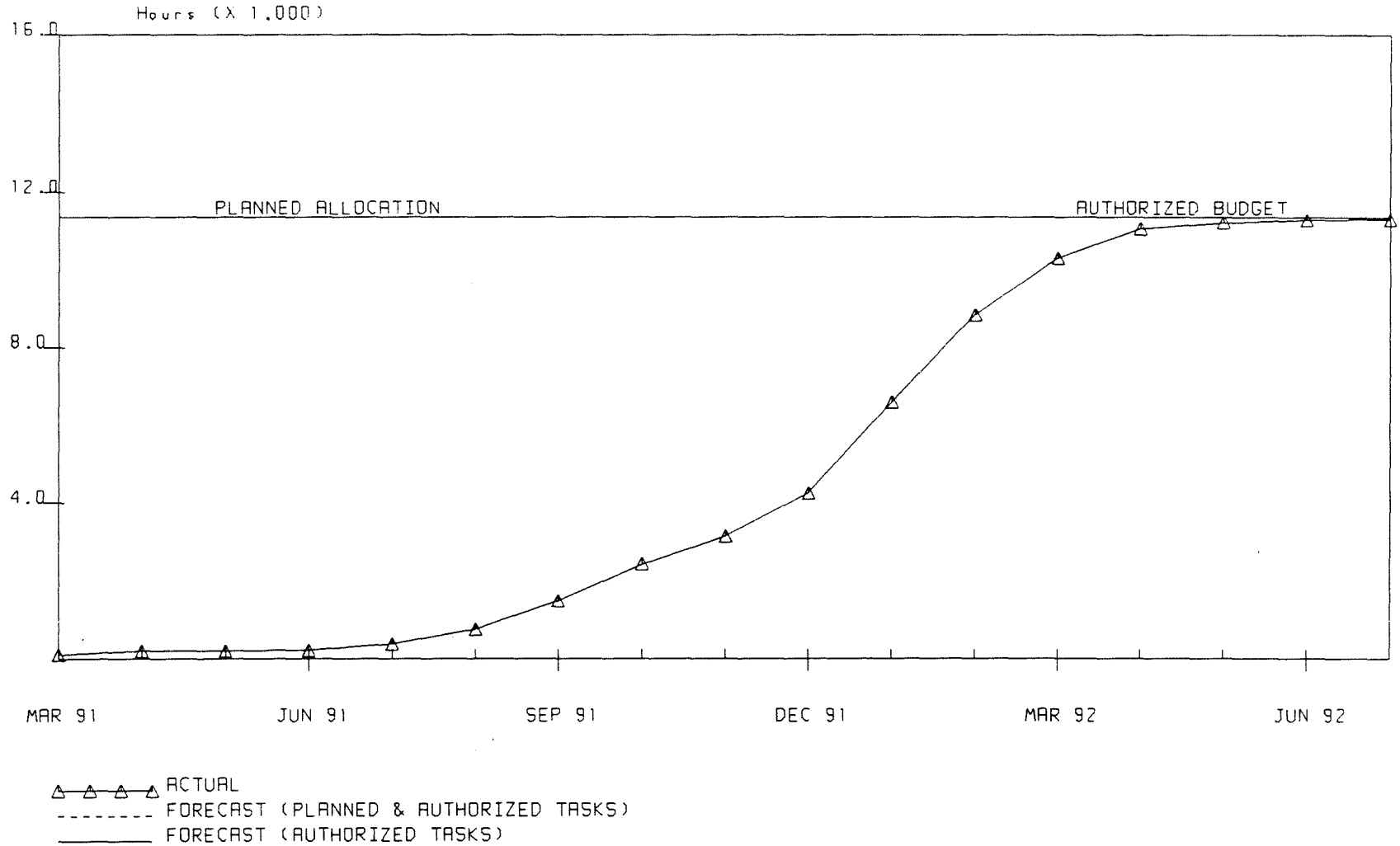
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 08/10/92
RUN TIME: 09:34 AM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

July 1992



RECEIVED

ARCS V TECHNICAL STATUS REPORT
August 1992

SEP 17 1992

BUREAU OF SOLID
HAZARDOUS WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: August 31, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The Final Groundwater Treatment Remedial Design was submitted on August 7. The design submittal incorporated comments received from the EPA and Wisconsin DNR on the Prefinal Design submittal. Any modifications to the design will be performed through an addendum under the RA work assignment.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

Any additional changes to be requested by the EPA and Wisconsin DNR should be identified as soon as possible because the subcontractor procurement process could commence within the next month or two.

4. Deliverables Submitted

The Final Groundwater Treatment Remedial Design was submitted on August 7.

5. Activities Planned Next Reporting Period

The project work is considered complete. Project close-out should begin as soon as possible to minimize project management costs.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

The work required to finalize the groundwater treatment design has been minimized through limiting the number of staff involved and by minimizing piecemeal changes to the documents.

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900.849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 09/09/92
 RUN TIME: 10:11 AM
 AS OF: 08/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE -----	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS							
Design Support Activities							
PM Project Management	C	100	0 4,011	0 0	4,011	4,948 936	
QC Quality Control	C	100	0 2,929	0 0	2,929	5,107 2,177	
ZZ General	C	100	0 -6	0 0	-6	5	
MG Meetings (External)	C	100	0 739	0 0	739	10,221 9,482	
GM Groundwater Monitoring Plan	C	100	0 26,926	0 0	26,926	29,355 2,428	
MS Miscellaneous Support	C	0	0 0	0 0	0	5,457 5,456	
LS Landfill Cap Support	C	100	0 1,059	0 0	1,059	1,845 785	
Activity Total		100	0 35,659	0 0	35,659	56,933 21,269	
65602FD							
Prefinal/Final Design							
DS Plans and Specifications	A	100	818 21,673	0 0	21,673	20,556 -1,116	
EC Estimates - Cost	C	100	0 16,547	0 0	16,547	15,185 -1,361	
PM Project Management	C	100	0 20,707	0 0	20,707	16,598 -4,109	
QC Quality Control	C	100	0 8,226	0 0	8,226	13,513 5,286	
ZZ General	A	100	803 3,065	0 0	3,065	-3,064	
GX Groundwater Extraction Design	C	100	0 15,328	0 0	15,328	23,907 8,578	
GT Groundwater Treatment Design	C	100	-579 189,691	0 0	189,691	112,057 -77,633	
MG Meetings (External)	C	100	0 2,436	0 0	2,436	7,397 4,961	
ML Manuals - Operations and Mai	C	100	0 5,360	0 0	5,360	18,865 13,505	
IT Insitu Treatment Design	C	100	0 47,524	0 0	47,524	42,863 -4,660	
SL Construction Schedule Develo	C	100	0 15,835	0 0	15,835	25,836 10,001	
Activity Total		100	1,042 346,391	0 0	346,391	296,777 -49,612	
65602LC							
LANDFILL CAP DESIGN							
ZZ General	C	100	0 -17	0 0	-17	16	
WP EPA Workplan	C	100	0 4,841	0 0	4,841	6,877 2,035	
QC Quality Control	C	100	0 12,929	0 0	12,929	14,743 1,813	
PM Project Management	C	100	0 15,087	0 0	15,087	14,689 -398	
PP Project Planning General	C	100	0 511	0 0	511	2,558 2,046	
ED Existing Data Review	C	100	0 2,313	0 0	2,313	2,324 10	
C1 Civil Engineering Design - G	C	100	0 17,150	0 0	17,150	15,866 -1,284	
G1 Predesign - Geotechnical	C	100	0 8,399	0 0	8,399	7,133 -1,265	
P1 Plans and Specifications - P	C	100	0 21,760	0 0	21,760	14,977 -6,782	
RB Report - 1st Draft Predesign	C	100	0 5,758	0 0	5,758	6,897 1,138	
C3 Civil Eng - Intermediate Des	C	100	0 3,773	0 0	3,773	4,492 718	
G3 Geotechnical Eng - Intermedi	C	100	0 6,035	0 0	6,035	5,158 -877	
P2 Plans and Specifications - I	C	100	0 16,674	0 0	16,674	13,705 -2,968	
C4 Civil Eng - Final Design	C	100	0 872	0 0	872	4,082 3,210	
G4 Geotechnical Eng - Final Des	C	0	0 0	0 0	0	4,036 4,035	
P3 Plans and Specifications - F	C	100	0 14,067	0 0	14,067	18,722 4,655	
EC Estimates - Cost	C	100	0 2,458	0 0	2,458	3,074 615	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
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 AS OF: 08/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----			----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
SL Construction Schedule Develop	C	100	0	2,016	0	0	2,016	5,076	3,060	
QS QAPP/SSP/FSP	C	100	0	8,066	0	0	8,066	7,954	-111	
ML Manuals - Operations and Mai	C	100	0	3,368	0	0	3,368	6,526	3,158	
HS Health and Safety	C	100	0	4,151	0	0	4,151	4,005	-145	
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131	
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513	
Activity Total		100	0	157,065	0	0	157,065	174,128	17,061	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	29	0	589	0	1,458	2,047	8,878	6,830	
ZZ General	A	100	12	12	0	0	12		-11	
Activity Total		29	12	601	0	1,458	2,059	8,878	6,819	
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590	
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063	
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288	
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218	
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	C	100	33	118,454	0	0	118,454	114,066	-4,387	
H1 Haz Waste Design - Process E	C	100	0	52,600	0	0	52,600	50,635	-1,965	
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	C	100	0	10,446	0	0	10,446	9,311	-1,135	
ZZ General	C	100	896	-33	0	0	-33		33	
Activity Total		100	929	241,833	0	0	241,833	241,123	-710	
65602PP										
Project Planning - RD										
PM Project Management	A	94	146	16,969	0	1,067	18,036	17,858	-178	
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952	
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268	
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886	
ZZ General	A	100	0	1	0	0	1		-1	
Activity Total		97	146	31,836	0	1,067	32,903	32,926	23	
Work Assignment Total		100	2,128	813,385	0	2,525	815,910	810,764	-5,150	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 139
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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT	----- TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE		23,549	864,340					
AUTH. TASKS w/EST. FULL FEE		2,242	902,182	2,767	904,949	900,849	-4,099	
ALL TASKS w/EST. FULL FEE			902,182	2,767	904,949			0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

SEP92	OCT92	NOV92	DEC92	JAN93	FEB93
2,766	0	0	0	0	0
904,948	904,948	904,948	904,948	904,948	904,948
<Overrun>					

Direct Labor	404	Indirects	679
Equipment	0	Base Fee	64
ODC	1,039	Award Fee	21,356
Subcontracts	7	Travel	0
Laboratory Service	0	TOTAL	23,549

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
65602DS									
Design Support Activities									
PM Project Management	C	100	0	56	0	56	64	8	
QC Quality Control	C	100	0	35	0	35	64	29	
MG Meetings (External)	C	100	0	9	0	9	140	131	
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37	
MS Miscellaneous Support	C	0	0	0	0	0	80	80	
LS Landfill Cap Support	C	100	0	15	0	15	28	13	
Activity Total			100	0	494	0	494	792	298
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	A	100	0	110	0	110	300	190	
EC Estimates - Cost	C	100	0	243	0	243	224	-19	
PM Project Management	C	100	0	234	0	234	236	2	
QC Quality Control	C	100	0	100	0	100	160	60	
ZZ General	A	100	7	53	0	53		-53	
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95	
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139	
MG Meetings (External)	C	100	0	34	0	34	100	66	
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216	
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124	
SL Construction Schedule Develo	C	100	0	205	0	205	382	177	
Activity Total			100	7	4,912	0	4,912	4,383	-529
65602LC									
LANDFILL CAP DESIGN									
WP EPA Workplan	C	100	0	80	0	80	88	8	
QC Quality Control	C	100	0	156	0	156	156		
PM Project Management	C	100	0	206	0	206	178	-28	
PP Project Planning General	C	100	0	9	0	9	30	21	
ED Existing Data Review	C	100	0	39	0	39	36	-3	
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22	
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30	
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155	
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15	
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7	
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27	
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56	
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46	
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56	
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68	
EC Estimates - Cost	C	100	0	48	0	48	48		
SL Construction Schedule Develo	C	100	0	32	0	32	74	42	
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
ML Manuals - Operations and Mai	C	100	0 45	0 45	88 43	
HS Health and Safety	C	100	0 63	0 63	40 -23	
MG Meetings (External)	C	100	0 57	0 57	48 -9	
MS Miscellaneous Support	C	100	0 56	0 56	96 40	
Activity Total		100	0 2,347	0 2,347	2,306 -41	
65602PC						
Project Closeout						
PC Project Closeout Procedures	A	25	0 8	24 32	140 108	
Activity Total		25	0 8	24 32	140 108	
65602PD						
Preliminary Design						
EC Estimates - Cost	C	100	0 47	0 47	120 73	
PM Project Management	C	100	0 154	0 154	148 -6	
QC Quality Control	C	100	0 122	0 122	84 -38	
QS QAPP/SSP/FSP	C	100	0 157	0 157	240 83	
HS Health and Safety	C	100	0 6	0 6	48 42	
R7 Report - Predesign	C	100	0 311	0 311	264 -47	
H6 Haz Waste Design - Advanced	C	100	0 1,440	0 1,440	1,575 135	
H1 Haz Waste Design - Process E	C	100	0 800	0 800	638 -162	
MG Meetings (External)	C	100	0 51	0 51	80 29	
C1 Civil Engineering Design - G	C	100	0 123	0 123	60 -63	
Activity Total		100	0 3,211	0 3,211	3,257 46	
65602PP						
Project Planning - RD						
PM Project Management	A	97	2 153	5 158	272 114	
PP Project Planning General	C	100	0 50	0 50	40 -10	
QC Quality Control	C	100	0 22	0 22	24 2	
WP EPA Workplan	C	100	0 123	0 123	142 19	
Activity Total		99	2 348	5 353	478 125	
Work Assignment Total		100	9 11,320	29 11,349	11,356 7	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
BOERSMA P M	P3	2		
NAVARRO D M	0	1		
TOTAL		3	TOTAL DOLLARS	49.97

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER		
WDCA-VAX8600	4.35	
USE-20000800	-4.35	
USE-20000800	5.68	
ODC COMPUTER TOTAL	5.68	
ODC CHEM PROT SURCHG		
H&S PROGRAM	3.52	
ODC CHEM PROT SURCHG TOTAL	3.52	
TOTAL		9.20

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

6. OVERHEAD

Base	Rate	
49.97	0.4300	21.49

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
49.97	1.2500	62.46

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			2.72
TOTAL SUBCONTRACTS			2.72

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	143.12	0.0300	4.29
SPECIAL SUB POOL	2.72	0.0250	0.07
TOTAL BASE FEE			4.36

17. TOTAL INVOICE AMOUNT 150.20

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
OHLSSON B	P4	1		
SCHULTZ L J	P3	1		
OLSON A G	P1	2		
PRINCIPALI A M	T2	3		
COLE D F	0	3		
FAGA N M	0	0		
HECKNER M J	0	8		
KOCH P J	0	2		
MCDOWELL L S	0	6		
SCHULTZ D E	0	1		
TOTAL		27	TOTAL DOLLARS	353.98

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

USESOFCLASSO	-349.70
WAN-308044	6.17
WAN-308044	0.28
WAN-308045	0.08
LAN-308044	9.88
LAN-308044	0.44
LAN-308045	0.13
USESOFCLASSO	-296.19
WANWANCAD/CA	-131.64
LANCOMPAQ SY	-164.55
LAN-308212	27.66
WAN-308044	0.17
WAN-308045	0.50
LAN-308045	0.80
WAN-308212	36.88
OPTQMS PS220	14.70
LAN-308044	0.26
CADCOMPAQ DE	170.57
USE-308212	92.20
OPTIMAGEN LA	4.20

ODC COMPUTER TOTAL -577.16

ODC REPROGRAPHICS

COPIER-8.5X1	505.44
BINDING	11.90
COPIER-8.5X1	22.40

ODC REPROGRAPHICS TOTAL 539.74

ODC DOCUMENT PROC

DPWH-L 2400	1.30
DPWH-L 2400	4.37
DPWH-L 2400	97.11

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC DOCUMENT PROC

DOCU PROCESS	13.20
DPWH-L 2400	7.91
DPWH-L 2400	2.60

ODC DOCUMENT PROC TOTAL 126.49

TOTAL 89.07

6. OVERHEAD

Base	Rate	
353.98	0.4300	152.23

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
353.98	1.2500	442.48

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			4.14
TOTAL SUBCONTRACTS			4.14

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	1,037.76	0.0300	31.13	
SPECIAL SUB POOL	4.14	0.0250	0.10	
TOTAL BASE FEE				31.23
17. TOTAL INVOICE AMOUNT				1,073.13

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC POSTAGE		
24POSTAGE	11.68	
ODC POSTAGE TOTAL	11.68	
TOTAL		11.68

6. OVERHEAD

Base	Rate	TOTAL
0.00	0.4300	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	11.68	0.0300	0.35
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			0.35

17. TOTAL INVOICE AMOUNT 12.03

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

USESOFCLASSO	20.88
USESOFCLASSD	-4.06
USESOFCLASSD	-2.32
WANWANCAD/CA	-9.28
USESOFCLASSD	4.06
USESOFCLASSO	349.70
LANCOMPAQ SY	164.55
WANWANCAD/CA	9.28
WANWAN-PC SY	-4.18
USESOFCLASSD	-2.29
WANWAN-PC SY	-7.30

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC COMPUTER

USESOFCLASSD	2.29
WANWANCAD/CA	131.64
USESOFCLASSO	-20.88
WANWAN-PC SY	7.30
WANWAN-PC SY	4.18
USESOFCLASSD	2.32
USESOFCLASSO	296.19

ODC COMPUTER TOTAL 942.08

ODC DOCUMENT PROC

DOCU PROCESS -13.20

ODC DOCUMENT PROC TOTAL -13.20

ODC POSTAGE

POSTAGE/FRT	22.50
POSTAGE/FRT	-22.50

ODC POSTAGE TOTAL 0.00

TOTAL 928.88

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR AUG 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----			-----
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total

LINES 1 THROUGH 8	928.88	0.0300	27.87
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			27.87

17. TOTAL INVOICE AMOUNT 956.75

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
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MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 P	30+	5
Final Design - GWT	01/21/92		08/07/92 P	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

=====

NOTES:

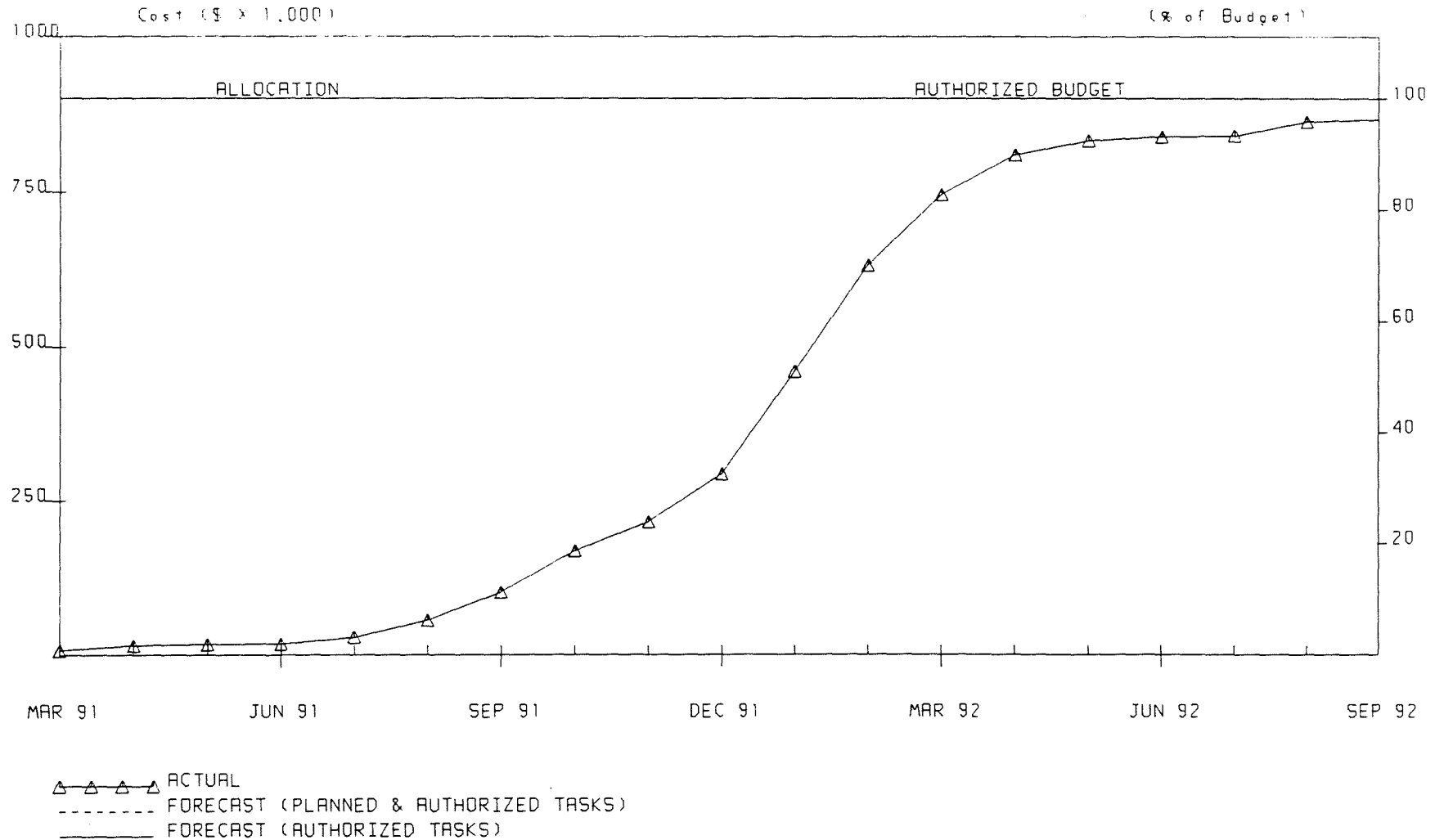
MASTER PROJECT: GLOES601
 STATUS: REVISION REQUEST
 ALLOCATION: \$900.849
 AUTHORIZED BUDGET: \$900.849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NLS

REPORT: PRJ091
 RUN DATE: 09 09 92
 RUN TIME: 12:54 PM

ONALASKA MUNICIPAL LANDFILL, WI
 TOTAL COSTS (W/FEES)

August 1992



MASTER PROJECT: GLO66600
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

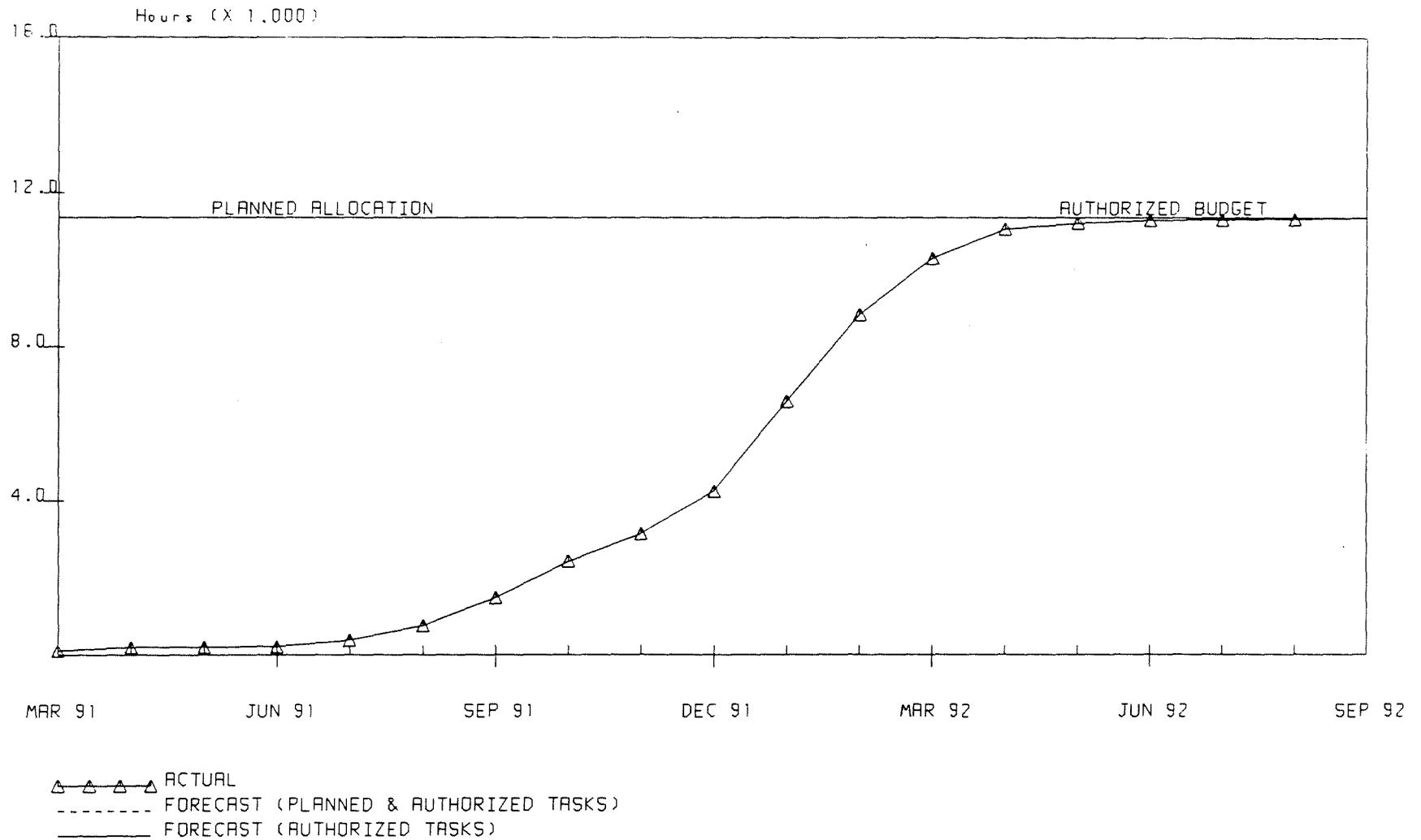
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PROJ91
RUN DATE: 09.09/92
RUN TIME: 12:54 PM

ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

August 1992



file

ARCS V TECHNICAL STATUS REPORT
September 1992

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
PERIOD ENDING: September 30, 1992
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The SM responded to questions posed by the WDNR on the Final Groundwater Treatment Remedial Design. These responses were given during telephone conversations and transmittal of design data.

The work planned under this work assignment is considered complete and all tasks, with the exception of a project management task, were closed to labor and expenses. Some project closeout actions were initiated.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

A written notice of completion will be submitted to the EPA, and a WACN will be requested so that project closeout can be completed. Although immediate initiation of project closeout will help to minimize project costs, it may be in the best interest of the EPA to resolve several outstanding issues, such as easements and WDNR design review, before closing out the project.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

Work was limited to telephone conversations and some project closeout activities.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 10/09/92
 RUN TIME: 12:40 PM
 AS OF: 09/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	----- W/P PRR -----			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	C	100	0	4,011	0	0	4,011	4,948	936
QC Quality Control	C	100	0	2,929	0	0	2,929	5,107	2,177
ZZ General	C	100	0	-6	0	0	-6		5
MG Meetings (External)	C	100	0	739	0	0	739	10,221	9,482
GM Groundwater Monitoring Plan	C	100	0	26,926	0	0	26,926	29,355	2,428
MS Miscellaneous Support	C	0	0	0	0	0	0	5,457	5,456
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		100	0	35,659	0	0	35,659	56,933	21,269
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	C	100	3,334	25,006	0	0	25,006	20,556	-4,450
EC Estimates - Cost	C	100	0	16,547	0	0	16,547	15,185	-1,361
PM Project Management	C	100	0	20,707	0	0	20,707	16,598	-4,109
QC Quality Control	C	100	0	8,226	0	0	8,226	13,513	5,286
ZZ General	C	100	-3,086	-22	0	0	-22		21
GX Groundwater Extraction Desig	C	100	0	15,328	0	0	15,328	23,907	8,578
GT Groundwater Treatment Design	C	100	0	189,691	0	0	189,691	112,057	-77,633
MG Meetings (External)	C	100	0	2,436	0	0	2,436	7,397	4,961
ML Manuals - Operations and Mai	C	100	0	5,360	0	0	5,360	18,865	13,505
IT Insitu Treatment Design	C	100	0	47,524	0	0	47,524	42,863	-4,660
SL Construction Schedule Develo	C	100	0	15,835	0	0	15,835	25,836	10,001
Activity Total		100	247	346,638	0	0	346,638	296,777	-49,861
65602LC									
LANDFILL CAP DESIGN									
ZZ General	C	100	0	-17	0	0	-17		16
WP EPA Workplan	C	100	0	4,841	0	0	4,841	6,877	2,035
QC Quality Control	C	100	0	12,929	0	0	12,929	14,743	1,813
PM Project Management	C	100	0	15,087	0	0	15,087	14,689	-398
PP Project Planning General	C	100	0	511	0	0	511	2,558	2,046
ED Existing Data Review	C	100	0	2,313	0	0	2,313	2,324	10
C1 Civil Engineering Design - G	C	100	0	17,150	0	0	17,150	15,866	-1,284
G1 Predesign - Geotechnical	C	100	0	8,399	0	0	8,399	7,133	-1,265
P1 Plans and Specifications - P	C	100	0	21,760	0	0	21,760	14,977	-6,782
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	0	5,758	6,897	1,138
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	0	3,773	4,492	718
G3 Geotechnical Eng - Intermedi	C	100	0	6,035	0	0	6,035	5,158	-877
P2 Plans and Specifications - I	C	100	0	16,674	0	0	16,674	13,705	-2,968
C4 Civil Eng - Final Design	C	100	0	872	0	0	872	4,082	3,210
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	0	4,036	4,035
P3 Plans and Specifications - F	C	100	0	14,067	0	0	14,067	18,722	4,655
EC Estimates - Cost	C	100	0	2,458	0	0	2,458	3,074	615

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
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 RUN TIME: 12:40 PM
 AS OF: 09/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060
QS QAPP/SSP/FSP	C	100	0	8,066	0	0	8,066	7,954	-111
ML Manuals - Operations and Mai	C	100	0	3,368	0	0	3,368	6,526	3,158
HS Health and Safety	C	100	0	4,151	0	0	4,151	4,005	-145
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513
Activity Total		100	0	157,065	0	0	157,065	174,128	17,061
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	12	601	0	0	601	8,878	8,276
ZZ General	A	0	-12	0	0	0			
Activity Total		100	0	601	0	0	601	8,878	8,276
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103
H6 Haz Waste Design - Advanced	C	100	0	118,454	0	0	118,454	114,066	-4,387
H1 Haz Waste Design - Process E	C	100	0	52,600	0	0	52,600	50,635	-1,965
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382
C1 Civil Engineering Design - G	C	100	0	10,446	0	0	10,446	9,311	-1,135
ZZ General	C	100	0	-33	0	0	-33		33
Activity Total		100	0	241,833	0	0	241,833	241,123	-710
65602PP									
Project Planning - RD									
PM Project Management	A	100	96	17,065	0	0	17,065	17,858	792
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886
ZZ General	A	100	0	1	0	0	1		-1
Activity Total		100	96	31,932	0	0	31,932	32,926	993
Work Assignment Total		100	343	813,729	0	0	813,729	810,764	-2,972

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED ----- BUDGET	----- VARIANCE -----	WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE			

AUTH. TASKS w/INVOICED FEE	352	864,692						
AUTH. TASKS w/EST. FULL FEE	358	902,540			0	902,540	900,849	-1,690
ALL TASKS w/EST. FULL FEE		902,540			0	902,540		0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

OCT92	NOV92	DEC92	JAN93	FEB93	MAR93
0	0	0	0	0	0
902,540	902,540	902,540	902,540	902,540	902,540
<Overrun>					

Direct Labor	28	Indirects	47
Equipment	0	Base Fee	9
ODC	53	Award Fee	0
Subcontracts	215	Travel	0
Laboratory Service	0	TOTAL	352

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS							
Design Support Activities							
PM Project Management	C 100	0	56	0	56	64	8
QC Quality Control	C 100	0	35	0	35	64	29
MG Meetings (External)	C 100	0	9	0	9	140	131
GM Groundwater Monitoring Plan	C 100	0	379	0	379	416	37
MS Miscellaneous Support	C 0	0	0	0	0	80	80
LS Landfill Cap Support	C 100	0	15	0	15	28	13
Activity Total	100	0	494	0	494	792	298
65602FD							
Prefinal/Final Design							
DS Plans and Specifications	C 100	53	163	0	163	300	137
EC Estimates - Cost	C 100	0	243	0	243	224	-19
PM Project Management	C 100	0	234	0	234	236	2
QC Quality Control	C 100	0	100	0	100	160	60
ZZ General	C 0	-53	0	0	0		
GX Groundwater Extraction Design	C 100	0	233	0	233	328	95
GT Groundwater Treatment Design	C 100	0	2,936	0	2,936	1,797	-1,139
MG Meetings (External)	C 100	0	34	0	34	100	66
ML Manuals - Operations and Mai	C 100	0	56	0	56	272	216
IT Insitu Treatment Design	C 100	0	708	0	708	584	-124
SL Construction Schedule Develo	C 100	0	205	0	205	382	177
Activity Total	100	0	4,912	0	4,912	4,383	-529
65602LC							
LANDFILL CAP DESIGN							
WP EPA Workplan	C 100	0	80	0	80	88	8
QC Quality Control	C 100	0	156	0	156	156	
PM Project Management	C 100	0	206	0	206	178	-28
PP Project Planning General	C 100	0	9	0	9	30	21
ED Existing Data Review	C 100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	C 100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	C 100	0	132	0	132	102	-30
P1 Plans and Specifications - P	C 100	0	365	0	365	210	-155
R8 Report - 1st Draft Predesign	C 100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	C 100	0	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	C 100	0	99	0	99	72	-27
P2 Plans and Specifications - I	C 100	0	248	0	248	192	-56
C4 Civil Eng - Final Design	C 100	0	10	0	10	56	46
G4 Geotechnical Eng - Final Des	C 0	0	0	0	0	56	56
P3 Plans and Specifications - F	C 100	0	172	0	172	240	68
EC Estimates - Cost	C 100	0	48	0	48	48	
SL Construction Schedule Develo	C 100	0	32	0	32	74	42
QS QAPP/SSP/FSP	C 100	0	112	0	112	108	-4

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		---- AUTHORIZED ----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43	
HS Health and Safety	C	100	0	63	0	63	40	-23	
MG Meetings (External)	C	100	0	57	0	57	48	-9	
MS Miscellaneous Support	C	100	0	56	0	56	96	40	
Activity Total		100	0	2,347	0	2,347	2,306	-41	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	0	8	0	8	140	132	
Activity Total		100	0	8	0	8	140	132	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	
PM Project Management	C	100	0	154	0	154	148	-6	
QC Quality Control	C	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	
HS Health and Safety	C	100	0	6	0	6	48	42	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	
MG Meetings (External)	C	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	
Activity Total		100	0	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	A	100	0	153	0	153	272	119	
PP Project Planning General	C	100	0	50	0	50	40	-10	
QC Quality Control	C	100	0	22	0	22	24	2	
WP EPA Workplan	C	100	0	123	0	123	142	19	
Activity Total		100	0	348	0	348	478	130	
Work Assignment Total		100	0	11,320	0	11,320	11,356	36	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
 PAGE: 1
 RUN DATE: 10/09/92
 RUN TIME: 12:37 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
HECKNER M J	0	0		
MACKOWIAK L M	0	0		
NAVARRO D M	0	1		
REMOND C A	0	0		
TING J C	0	1		
TOTAL		2	TOTAL DOLLARS	28.16

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER		
WDCA-VAX8600	20.50	
ODC COMPUTER TOTAL	20.50	
TOTAL		20.50

6. OVERHEAD

Base	Rate	
28.16	0.4300	12.11

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
28.16	1.2500	35.20

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	95.97	0.0300	2.88
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			2.88

17. TOTAL INVOICE AMOUNT 98.85

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked		
OHLSSON B	P4	0		
SCHULTZ L J	P3	0		
OLSON A G	P1	0		
KUTZ P T	T2	0		
OXLEY R	T2	0		
PIERONI J A	T2	0		
PRINCIPALI A M	T2	0		
COLE D F	0	0		
HECKNER M J	0	0		
KOCH P J	0	0		
TOTAL		0	TOTAL DOLLARS	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

OPTQMS PS220	12.60
WAN-303084D	-6.85
WAN-308044D	0.17
LAN-308044D	0.26
OPTQMS PS220	33.60
USE-302885D	15.08
CADCOMPAQ DE	24.03
CADCOMPAQ DE	33.55
LAN-302885D	4.52
SYSCOMPAQ DE	2.35
OPTQMS PS220	16.80
USE-302769D	37.88
LAN-308045D	0.80
WAN-308045D	0.50
LAN-308217D	0.50
OPTQMS PS220	8.40
USE-308212D	103.00
USE-308211D	1.52
LAN-308212D	30.90
USE-302885D	-15.08
USE-303084D	17.12
LAN-302769D	-10.57
LAN-303084D	-5.14
CADCOMPAQ DE	-170.57
GDWMACINTOSH	1.03
WAN-302885D	6.03
CADCOMPAQ DE	78.41
CADCOMPAQ DE	-33.55
OPTQMS PS220	-12.60
USE-308212D	-103.00
OPTQMS PS220	-16.80
WAN-308045D	-0.50
LAN-308212D	-30.90
CADCOMPAQ DE	-3.38
WAN-308217D	0.32
LAN-308217D	-0.50

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302017D	0.12
WAN-308211D	-0.61
GDWMACINTOSH	-1.03
WAN-302017D	0.08
WAN-308212D	41.20
USE-308217D	0.21
USE-302769D	35.24
WAN-308211D	0.61
CADCOMPAQ DE	170.57
WAN-303084D	6.85
WAN-308044D	-0.17
OPTQMS PS220	-33.60
OPTIMAGEN LA	4.20
WAN-302769D	14.10
WAN-302769D	-14.10
OPTQMS PS220	29.40
LAN-303084D	5.14
CADCOMPAQ DE	3.38
LAN-302769D	10.57
USE-302769D	-35.24
CADCOMPAQ DE	-38.09
WAN-308217D	-0.32
WAN-308212D	-41.20
OPTQMS PS220	-14.70
CADCOMPAQ DE	-24.03
USE-308211D	-1.52
LAN-302885D	-4.52
OPTQMS PS220	-29.40
CADCOMPAQ DE	-78.41
USE-308217D	-0.21
OPTIMAGEN LA	-4.20
WAN-302017D	-0.08
USE-303084D	-17.12
LAN-308045D	-0.80
LAN-302017D	-0.12
SYSCOMPAQ DE	-2.35

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
 PAGE: 6
 RUN DATE: 10/09/92
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-308211D	-0.46
CADCOMPAQ DE	38.09
OPTQMS PS220	14.70
WAN-302885D	-6.03
OPTQMS PS220	-8.40
USE-302056	3.20
LAN-302056	1.60
CADCOMPAQ DE	5.92
WAN-302056	1.28
LAN-308044D	-0.26
LAN-308211D	0.46
USE-302769D	-37.88

ODC COMPUTER TOTAL 12.00

ODC DOCUMENT PROC

DPWH-L 2400	2.60
DPWH-L 2400	7.91
DPWH-L 2400	-7.91
DPWH-L 2400	-2.60

ODC DOCUMENT PROC TOTAL 0.00

ODC POSTAGE

FED EXPRESS	3.75
FED EXP	9.66
FED EXPRESS	7.23

ODC POSTAGE TOTAL 20.64

TOTAL 32.64

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
 PAGE: 7
 RUN DATE: 10/09/92
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			214.65
TOTAL SUBCONTRACTS			214.65

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	32.64	0.0300	0.98	
SPECIAL SUB POOL	214.65	0.0250	5.37	
TOTAL BASE FEE				6.35

17. TOTAL INVOICE AMOUNT 253.64

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
 PAGE: 8
 RUN DATE: 10/09/92
 RUN TIME: 12:37 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
-----		-----	-----
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose

SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
-----		-----
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC POSTAGE		

POSTAGE/FRT	11.68	
POSTAGE/FRT	-11.68	
ODC POSTAGE TOTAL	0.00	
TOTAL		0.00

6. OVERHEAD

Base	Rate	TOTAL
-----		-----
0.00	0.4300	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR SEP 92

REPORT: ACC335
 PAGE: 9
 RUN DATE: 10/09/92
 RUN TIME: 12:37 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	0.00	0.0300	0.00
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			0.00

17. TOTAL INVOICE AMOUNT 0.00

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NLS
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 10/09/92
 RUN TIME: 02:26
 AS OF: 09/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 A	30+	5
Final Design - GWT	01/21/92		08/07/92 A	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

=====

NOTES:

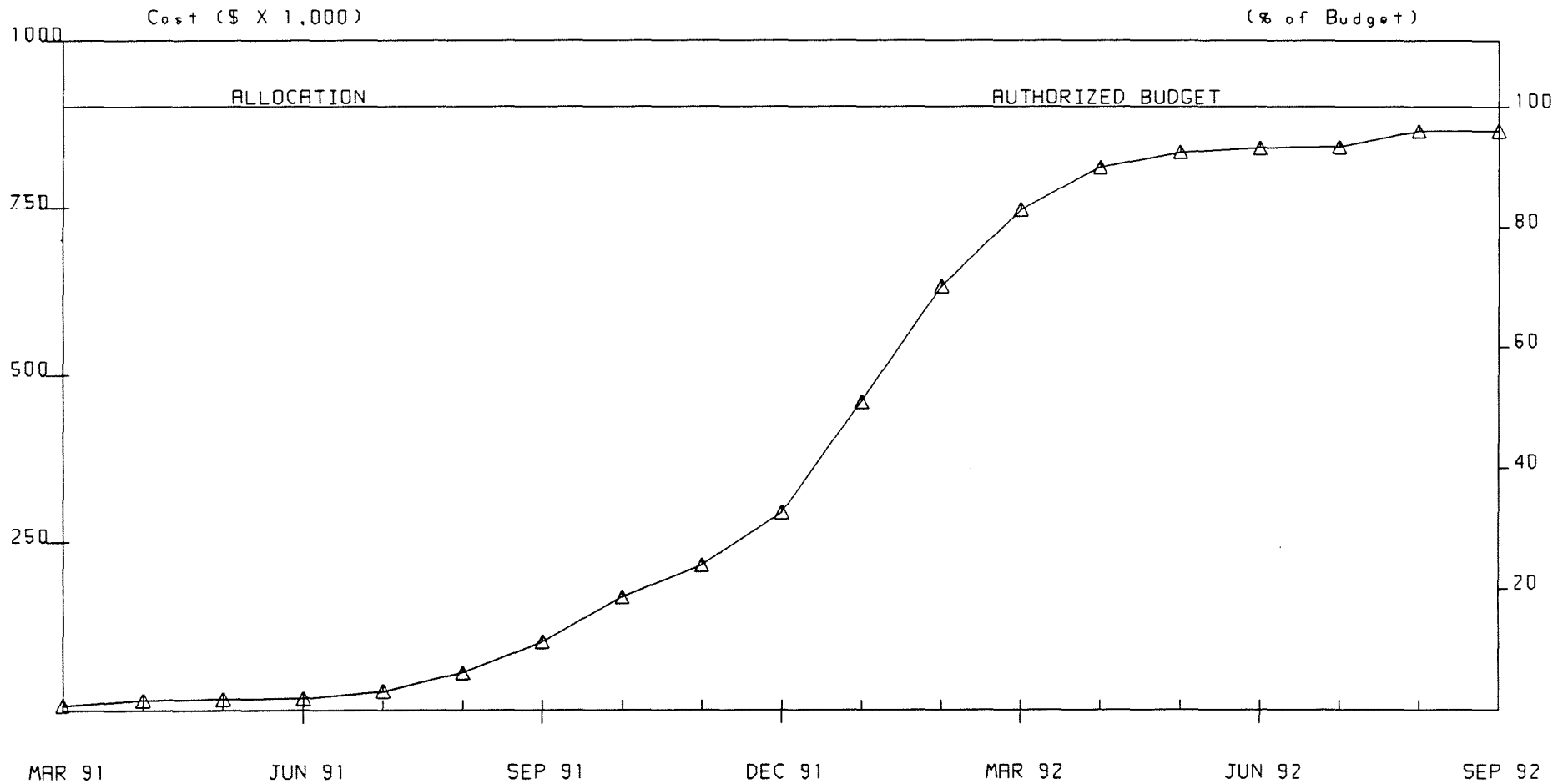
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$900,849
AUTHORIZED BUDGET: \$900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 10/09/92
RUN TIME: 11:38 AM

ONALASKA MUNICIPAL LANDFILL, WI
TOTAL COSTS (W/FEES)

September 1992



▲▲▲▲ ACTUAL
- - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
_____ FORECAST (AUTHORIZED TASKS)

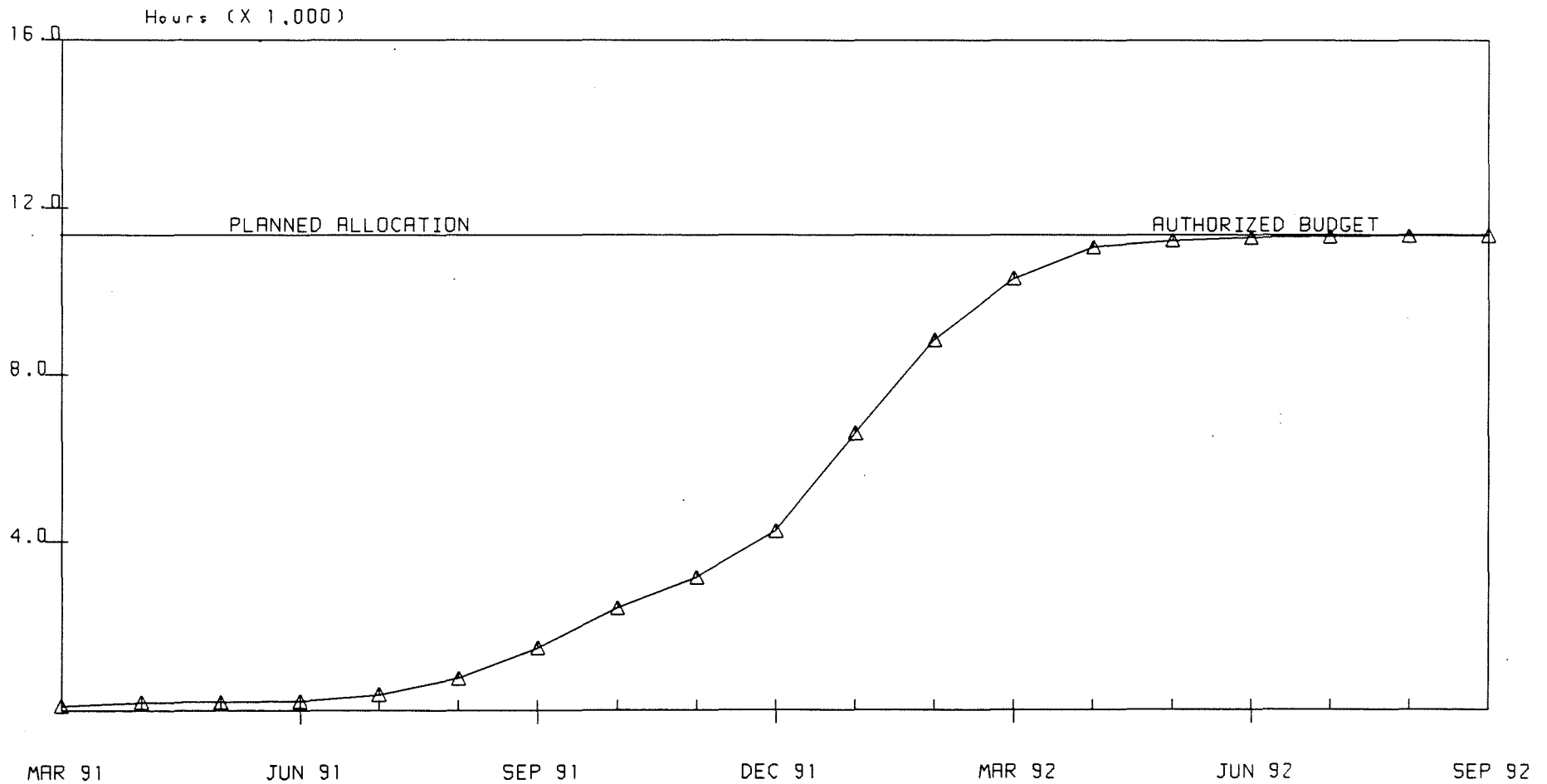
MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 10/09/92
RUN TIME: 11:38 AM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

September 1992



△-△-△-△ ACTUAL
- - - - - FORECAST (PLANNED & AUTHORIZED TASKS)
_____ FORECAST (AUTHORIZED TASKS)

ARCS V TECHNICAL STATUS REPORT
October 1992

RECEIVED

NOV 16 1992

BUREAU OF SOLID &
HAZARDOUS WASTE MANAGEMENT

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
PERIOD ENDING: October 31, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee
RTL: Phil Smith, CH2M HILL, Milwaukee
Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

The EPA officially acknowledged approval of the groundwater treatment remedial action plans and specifications. A WACN was submitted on October 20 and project closeout actions are being completed.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Project closeout activities will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

A WACN was submitted promptly to limit project management costs.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 11/09/92
 RUN TIME: 06:08 PM
 AS OF: 10/92

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS						
Design Support Activities						
PM Project Management	C 100	-2 4,009	0 0	4,009	4,948 939	
QC Quality Control	C 100	0 2,929	0 0	2,929	5,107 2,177	
ZZ General	C 100	0 -6	0 0	-6		5
MG Meetings (External)	C 100	-2 737	0 0	737	10,221 9,484	
GM Groundwater Monitoring Plan	C 100	-35 26,892	0 0	26,892	29,355 2,463	
MS Miscellaneous Support	C 0	0 0	0 0	0	5,457 5,456	
LS Landfill Cap Support	C 100	0 1,059	0 0	1,059	1,845 785	
Activity Total	100	-39 35,620	0 0	35,620	56,933 21,309	
65602FD						
Prefinal/Final Design						
DS Plans and Specifications	C 100	-209 24,797	0 0	24,797	20,556 -4,241	
EC Estimates - Cost	C 100	-101 16,445	0 0	16,445	15,185 -1,260	
PM Project Management	C 100	94 20,801	0 0	20,801	16,598 -4,202	
QC Quality Control	C 100	-16 8,210	0 0	8,210	13,513 5,302	
ZZ General	C 100	-251 -273	0 0	-273		272
GX Groundwater Extraction Desig	C 100	-76 15,252	0 0	15,252	23,907 8,654	
GT Groundwater Treatment Design	C 100	-2,817 186,874	0 0	186,874	112,057 -74,816	
MG Meetings (External)	C 100	0 2,436	0 0	2,436	7,397 4,961	
ML Manuals - Operations and Mai	C 100	-45 5,315	0 0	5,315	18,865 13,549	
IT Insitu Treatment Design	C 100	-638 46,885	0 0	46,885	42,863 -4,021	
SL Construction Schedule Develo	C 100	-79 15,756	0 0	15,756	25,836 10,079	
Activity Total	100	-4,139 342,499	0 0	342,499	296,777 -45,723	
65602LC						
LANDFILL CAP DESIGN						
ZZ General	C 100	10 -7	0 0	-7		7
WP EPA Workplan	C 100	0 4,841	0 0	4,841	6,877 2,035	
QC Quality Control	C 100	34 12,964	0 0	12,964	14,743 1,779	
PM Project Management	C 100	93 15,180	0 0	15,180	14,689 -491	
PP Project Planning General	C 100	0 511	0 0	511	2,558 2,046	
ED Existing Data Review	C 100	0 2,313	0 0	2,313	2,324 10	
C1 Civil Engineering Design - G	C 100	-31 17,119	0 0	17,119	15,866 -1,253	
G1 Predesign - Geotechnical	C 100	-2 8,397	0 0	8,397	7,133 -1,263	
P1 Plans and Specifications - P	C 100	-623 21,136	0 0	21,136	14,977 -6,159	
R8 Report - 1st Draft Predesign	C 100	0 5,758	0 0	5,758	6,897 1,138	
C3 Civil Eng - Intermediate Des	C 100	0 3,773	0 0	3,773	4,492 718	
G3 Geotechnical Eng - Intermedi	C 100	-5 6,030	0 0	6,030	5,158 -872	
P2 Plans and Specifications - I	C 100	-306 16,368	0 0	16,368	13,705 -2,662	
C4 Civil Eng - Final Design	C 100	13 884	0 0	884	4,082 3,198	
G4 Geotechnical Eng - Final Des	C 0	0 0	0 0	0	4,036 4,035	
P3 Plans and Specifications - F	C 100	-20 14,047	0 0	14,047	18,722 4,675	
EC Estimates - Cost	C 100	0 2,458	0 0	2,458	3,074 615	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
 RUN DATE: 11/09/92
 RUN TIME: 06:08 PM
 AS OF: 10/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	AT COMPLETE	BUDGET		VARIANCE
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060	
QS QAPP/SSP/FSP	C	100	-19	8,047	0	0	8,047	7,954	-92	
ML Manuals - Operations and Mai	C	100	13	3,381	0	0	3,381	6,526	3,145	
HS Health and Safety	C	100	-1	4,149	0	0	4,149	4,005	-144	
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131	
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513	
Activity Total		100	-845	156,219	0	0	156,219	174,128	17,907	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	100	228	829	0	0	829	8,878	8,048	
Activity Total		100	228	829	0	0	829	8,878	8,048	
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590	
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063	
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288	
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218	
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	C	100	-256	118,198	0	0	118,198	114,066	-4,132	
H1 Haz Waste Design - Process E	C	100	16	52,616	0	0	52,616	50,635	-1,981	
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	C	100	-4	10,442	0	0	10,442	9,311	-1,131	
ZZ General	C	100	99	66	0	0	66		-65	
Activity Total		100	-145	241,688	0	0	241,688	241,123	-565	
65602PP										
Project Planning - RD										
PM Project Management	A	100	-134	16,931	0	0	16,931	17,858	926	
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952	
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268	
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886	
ZZ General	A	100	0	1	0	0	1		-1	
Activity Total		100	-134	31,797	0	0	31,797	32,926	1,127	
Work Assignment Total		100	-5,076	808,653	0	0	808,653	810,764	2,103	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 139
 RUN DATE: 11/09/92
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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
---------------	-------------------	---------------------------------------	---	----------------------	----------------------------------	-------------------	----------------------

AUTH. TASKS w/INVOICED FEE		-5,228	859,464				
AUTH. TASKS w/EST. FULL FEE		-5,222	897,312	0	897,312	900,849	3,536
ALL TASKS w/EST. FULL FEE			897,312	0	897,312		0

Projection: (Monthly/Cumulative)

NOV92	DEC92	JAN93	FEB93	MAR93	APR93
0	0	0	0	0	0
897,312	897,312	897,312	897,312	897,312	897,312

Current Cost Invoiced:

Direct Labor	14	Indirects	23
Equipment	17	Base Fee	-152
ODC	-5,129	Award Fee	0
Subcontracts	0	Travel	0
Laboratory Service	0	TOTAL	-5,228

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 11/09/92
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 AS OF: 10/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
65602DS									
Design Support Activities									
PM Project Management	C	100	0	56	0	56	64	8	
QC Quality Control	C	100	0	35	0	35	64	29	
MG Meetings (External)	C	100	0	9	0	9	140	131	
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37	
MS Miscellaneous Support	C	0	0	0	0	0	80	80	
LS Landfill Cap Support	C	100	0	15	0	15	28	13	
Activity Total			100	0	494	0	494	792	298
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	C	100	0	163	0	163	300	137	
EC Estimates - Cost	C	100	0	243	0	243	224	-19	
PM Project Management	C	100	0	234	0	234	236	2	
QC Quality Control	C	100	0	100	0	100	160	60	
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95	
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139	
MG Meetings (External)	C	100	0	34	0	34	100	66	
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216	
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124	
SL Construction Schedule Develo	C	100	0	205	0	205	382	177	
Activity Total			100	0	4,912	0	4,912	4,383	-529
65602LC									
LANDFILL CAP DESIGN									
WP EPA Workplan	C	100	0	80	0	80	88	8	
QC Quality Control	C	100	0	156	0	156	156		
PM Project Management	C	100	0	206	0	206	178	-28	
PP Project Planning General	C	100	0	9	0	9	30	21	
ED Existing Data Review	C	100	0	39	0	39	36	-3	
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22	
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30	
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155	
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15	
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7	
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27	
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56	
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46	
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56	
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68	
EC Estimates - Cost	C	100	0	48	0	48	48		
SL Construction Schedule Develo	C	100	0	32	0	32	74	42	
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 11/09/92
 RUN TIME: 06:08 PM
 AS OF: 10/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
HS Health and Safety	C	100	0	63	0	63	40	-23	
MG Meetings (External)	C	100	0	57	0	57	48	-9	
MS Miscellaneous Support	C	100	0	56	0	56	96	40	
Activity Total		100	0	2,347	0	2,347	2,306	-41	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	0	8	0	8	140	132	
Activity Total		100	0	8	0	8	140	132	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	
PM Project Management	C	100	0	154	0	154	148	-6	
QC Quality Control	C	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	
HS Health and Safety	C	100	0	6	0	6	48	42	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	
MG Meetings (External)	C	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	
Activity Total		100	0	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	A	100	0	153	0	153	272	119	
PP Project Planning General	C	100	0	50	0	50	40	-10	
QC Quality Control	C	100	0	22	0	22	24	2	
WP EPA Workplan	C	100	0	123	0	123	142	19	
Activity Total		100	0	348	0	348	478	130	
Work Assignment Total		100	0	11,320	0	11,320	11,356	36	

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
FAGNANT T A	0	1		
HECKNER M J	0	0		
REMOND C A	0	0		
TOTAL		1	TOTAL DOLLARS	13.77

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

WDCA-VAX8600	1.73
CY RATE ADJ	-18.00
CY RATE ADJ	-46.64
CY RATE ADJ	-88.73
CY RATE ADJ	-33.82
ODC COMPUTER TOTAL	-185.46

ODC REPROGRAPHICS

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

5. OTHER DIRECT COSTS

ODC REPROGRAPHICS

 CY RATE ADJ 14.18
 ODC REPROGRAPHICS TOTAL 14.18
 TOTAL -171.28

6. OVERHEAD

Base	Rate	
-----	-----	
13.77	0.4300	5.91

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
13.77	1.2500	17.21

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----	-----	-----	-----
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PP.00:Project Planning - RD

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	-134.39	0.0300	-4.03	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-4.03

17. TOTAL INVOICE AMOUNT -138.42

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
CY RATE ADJ	13.42	
TOTAL		13.42

5. OTHER DIRECT COSTS

ODC COMPUTER

CADCOMPAQ DE	-5.92
WAN-302056C	-1.28
USE-302056C	-3.20
LAN-302056C	-1.60
CY RATE ADJ	-530.57
CY RATE ADJ	-14.44
CY RATE ADJ	-62.31
CY RATE ADJ	-29.99
CY RATE ADJ	-18.67
CY RATE ADJ	-1.20

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ -121.91
CY RATE ADJ -79.30
CY RATE ADJ -19.41
CY RATE ADJ -5.19
CY RATE ADJ -17.45
CY RATE ADJ -25.63
CY RATE ADJ -4.15
CY RATE ADJ 8.73
CY RATE ADJ -4.84
CY RATE ADJ -2.95
CY RATE ADJ -7.53
CY RATE ADJ -84.13
CY RATE ADJ -6.61
CY RATE ADJ -105.74
CY RATE ADJ -32.82
CY RATE ADJ -485.97
CY RATE ADJ -13.70
CY RATE ADJ 17.26
CY RATE ADJ -55.01
CY RATE ADJ -7.65
CY RATE ADJ -4.10
CY RATE ADJ -9.87
CY RATE ADJ -51.98
CY RATE ADJ -3.14
CY RATE ADJ -26.96
CY RATE ADJ -84.89
CY RATE ADJ -6.11
CY RATE ADJ -43.47
CY RATE ADJ -26.59
CY RATE ADJ -34.74
CY RATE ADJ -1,401.98
CY RATE ADJ -17.19
CY RATE ADJ -53.02
CY RATE ADJ -34.25
CY RATE ADJ -17.47
CY RATE ADJ -16.70

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ	-6.87
CY RATE ADJ	-326.99
CY RATE ADJ	13.48
CY RATE ADJ	-318.39
CY RATE ADJ	-3.10
CY RATE ADJ	-41.96
CY RATE ADJ	-3.80
CY RATE ADJ	270.66
CY RATE ADJ	232.69
CY RATE ADJ	-100.12
CY RATE ADJ	-34.53
CY RATE ADJ	-8.12
CY RATE ADJ	-68.49
CY RATE ADJ	-5.48
CY RATE ADJ	-6.20
CY RATE ADJ	-7.07

ODC COMPUTER TOTAL -3,969.93

ODC REPROGRAPHICS

CY RATE ADJ	11.63
CY RATE ADJ	29.11
CY RATE ADJ	2.14

ODC REPROGRAPHICS TOTAL 42.88

ODC POSTAGE

POSTAGE/FRT	-3.75
POSTAGE/FRT	-7.23

ODC POSTAGE TOTAL -10.98

TOTAL -3,938.03

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

*** This report contains confidential business information ***

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602FD.00:Prefinal/Final Design

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			-214.65
TOTAL SUBCONTRACTS			-214.65

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-3,924.61	0.0300	-117.74
SPECIAL SUB POOL	-214.65	0.0250	-5.37
TOTAL BASE FEE			-123.11

17. TOTAL INVOICE AMOUNT -4,262.37

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ	-1.98
CY RATE ADJ	-40.16
CY RATE ADJ	-19.26
CY RATE ADJ	-1.54
CY RATE ADJ	-49.03
CY RATE ADJ	-2.29

ODC COMPUTER TOTAL -114.26

ODC REPROGRAPHICS

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602DS.00:Design Support Activities

5. OTHER DIRECT COSTS

ODC REPROGRAPHICS

 CY RATE ADJ 73.48
 CY RATE ADJ 1.41

ODC REPROGRAPHICS TOTAL 74.89

TOTAL -39.37

6. OVERHEAD

Base	Rate	
-----	-----	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----	-----	-----	-----
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602DS.00:Design Support Activities

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	-39.37	0.0300	-1.18	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-1.18
17. TOTAL INVOICE AMOUNT				-40.55

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER	

CADCOMPAQ DE	5.92
WAN-302056D	1.28
USE-302056D	3.20
LAN-302056D	1.60
CY RATE ADJ	-9.94
ODC COMPUTER TOTAL	2.06
ODC POSTAGE	

POSTAGE/FRT	7.23

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

5. OTHER DIRECT COSTS

ODC POSTAGE

 POSTAGE/FRT 3.75
 ODC POSTAGE TOTAL 10.98

TOTAL 13.04

6. OVERHEAD

Base	Rate	
-----	-----	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----	-----	-----	-----
SUB CASUAL LABOR			214.65
TOTAL SUBCONTRACTS			214.65

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PC.00:Project Closeout

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	13.04	0.0300	0.39	
SPECIAL SUB POOL	214.65	0.0250	5.37	
TOTAL BASE FEE				5.76
17. TOTAL INVOICE AMOUNT				233.45

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING /STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ	29.77
CY RATE ADJ	29.68
CY RATE ADJ	-37.57
CY RATE ADJ	24.35
CY RATE ADJ	-50.83
CY RATE ADJ	-3.41
CY RATE ADJ	69.38
CY RATE ADJ	-7.01
CY RATE ADJ	-8.04
CY RATE ADJ	-62.54
CY RATE ADJ	-87.48

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ	-26.73
CY RATE ADJ	-3.03
CY RATE ADJ	-27.73
CY RATE ADJ	-1.72

ODC COMPUTER TOTAL -162.91

ODC REPROGRAPHICS

CY RATE ADJ	12.57
CY RATE ADJ	5.35

ODC REPROGRAPHICS TOTAL 17.92

TOTAL -144.99

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

 WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

14. BASE FEE

	Base	Rate	Total
	-----	-----	-----

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	-144.99	0.0300	-4.35	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-4.35
17. TOTAL INVOICE AMOUNT				-149.34

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
TOTAL		0	TOTAL DOLLARS	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals & Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL		0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
CY RATE ADJ	3.56	
TOTAL		3.56

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ	-5.58
CY RATE ADJ	-66.47
CY RATE ADJ	-2.28
CY RATE ADJ	-16.45
CY RATE ADJ	-1.18
CY RATE ADJ	-48.88
CY RATE ADJ	-1.43
CY RATE ADJ	-16.82
CY RATE ADJ	-28.01
CY RATE ADJ	-4.05

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC COMPUTER

CY RATE ADJ -378.02
CY RATE ADJ 3.43
CY RATE ADJ 105.00
CY RATE ADJ -4.95
CY RATE ADJ -126.01
CY RATE ADJ 2.68
CY RATE ADJ -12.82
CY RATE ADJ -2.44
CY RATE ADJ -12.00
CY RATE ADJ 1.61
CY RATE ADJ -147.54
CY RATE ADJ -49.00
CY RATE ADJ -57.51
CY RATE ADJ -124.90
CY RATE ADJ -46.91
CY RATE ADJ -2.78
CY RATE ADJ -1.53
CY RATE ADJ -4.32
CY RATE ADJ -65.60
CY RATE ADJ -4.60
CY RATE ADJ 1.84
CY RATE ADJ -41.48
CY RATE ADJ -5.12
CY RATE ADJ -4.70
CY RATE ADJ -7.02
CY RATE ADJ -36.98

ODC COMPUTER TOTAL -1,212.82

ODC REPROGRAPHICS

CY RATE ADJ 7.38
CY RATE ADJ 6.67
CY RATE ADJ 4.72
CY RATE ADJ 50.09
CY RATE ADJ 244.28

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

5. OTHER DIRECT COSTS

ODC REPROGRAPHICS

CY RATE ADJ	12.57
CY RATE ADJ	27.48
CY RATE ADJ	10.84

ODC REPROGRAPHICS TOTAL 364.03

TOTAL -848.79

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

14. BASE FEE

	Base	Rate	Total	
LINES 1 THROUGH 8	-845.23	0.0300	-25.36	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				-25.36
17. TOTAL INVOICE AMOUNT				-870.59

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 A	30+	5
Final Design - GWT	01/21/92		08/07/92 A	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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 NOTES:

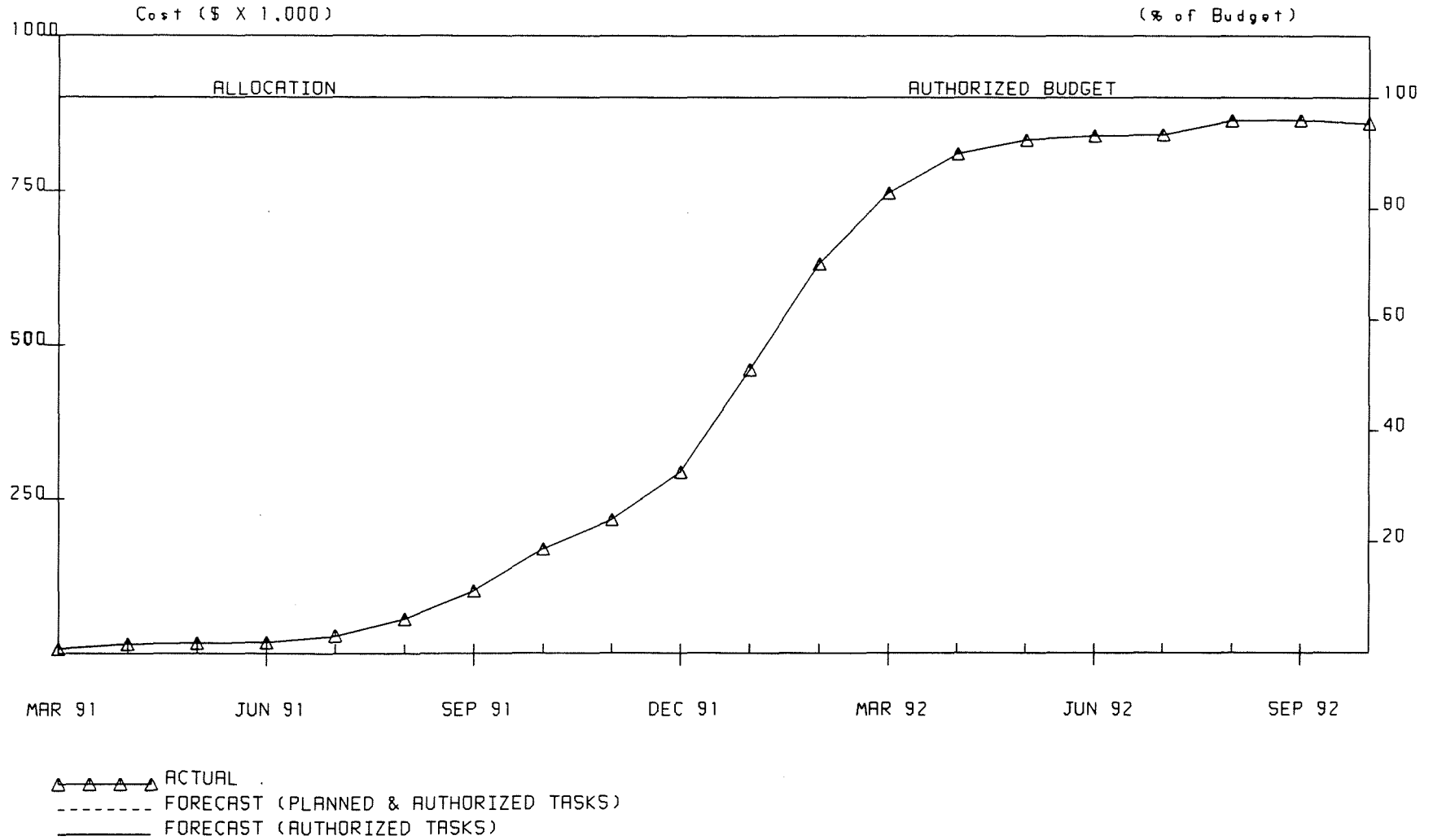
MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$900,849
 AUTHORIZED BUDGET: \$900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5

REPORT: PRJ091
 RUN DATE: 11/08/92
 RUN TIME: 01:54 PM

ONALASKA MUNICIPAL LANDFILL, WI
 TOTAL COSTS (W/FEES)

October 1992



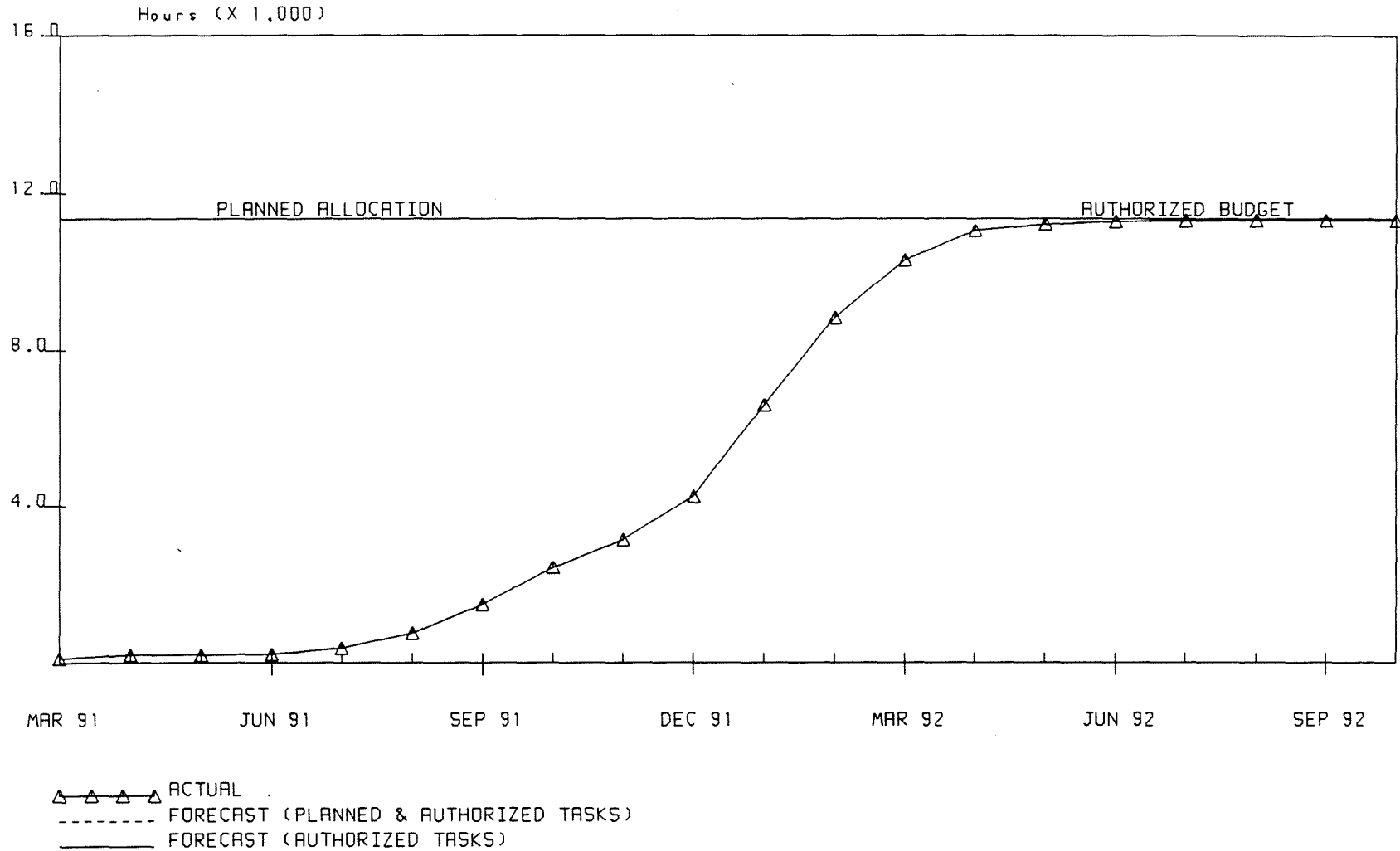
MASTER PROJECT: GL065602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 11/08/92
RUN TIME: 01:54 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

October 1992



ARCS V TECHNICAL STATUS REPORT

November 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: November 30, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

A WACN was approved by the EPA on November 6, and project closeout actions are being completed.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Project closeout activities will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

A WACN was approved on November 3 to limit the project management costs.

GLT225/038.51

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 12/11/92
 RUN TIME: 09:50 AM
 AS OF: 11/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
65602DS							
Design Support Activities							
PM Project Management	C	100	0 4,009	0 0	4,009	4,948 939	
QC Quality Control	C	100	0 2,929	0 0	2,929	5,107 2,177	
ZZ General	C	100	0 -6	0 0	-6	5	
MG Meetings (External)	C	100	0 737	0 0	737	10,221 9,484	
GM Groundwater Monitoring Plan	C	100	0 26,892	0 0	26,892	29,355 2,463	
MS Miscellaneous Support	C	0	0 0	0 0	0	5,457 5,456	
LS Landfill Cap Support	C	100	0 1,059	0 0	1,059	1,845 785	
Activity Total		100	0 35,620	0 0	35,620	56,933 21,309	
65602FD							
Prefinal/Final Design							
DS Plans and Specifications	C	100	0 24,797	0 0	24,797	20,556 -4,241	
EC Estimates - Cost	C	100	0 16,445	0 0	16,445	15,185 -1,260	
PM Project Management	C	100	0 20,801	0 0	20,801	16,598 -4,202	
QC Quality Control	C	100	0 8,210	0 0	8,210	13,513 5,302	
ZZ General	C	100	0 -273	0 0	-273	272	
GX Groundwater Extraction Desig	C	100	0 15,252	0 0	15,252	23,907 8,654	
GT Groundwater Treatment Design	C	100	0 186,874	0 0	186,874	112,057 -74,816	
MG Meetings (External)	C	100	0 2,436	0 0	2,436	7,397 4,961	
ML Manuals - Operations and Mai	C	100	0 5,315	0 0	5,315	18,865 13,549	
IT Insitu Treatment Design	C	100	0 46,885	0 0	46,885	42,863 -4,021	
SL Construction Schedule Develo	C	100	0 15,756	0 0	15,756	25,836 10,079	
Activity Total		100	0 342,499	0 0	342,499	296,777 -45,723	
65602LC							
LANDFILL CAP DESIGN							
ZZ General	C	100	0 -7	0 0	-7	7	
WP EPA Workplan	C	100	0 4,841	0 0	4,841	6,877 2,035	
QC Quality Control	C	100	0 12,964	0 0	12,964	14,743 1,779	
PM Project Management	C	100	0 15,180	0 0	15,180	14,689 -491	
PP Project Planning General	C	100	0 511	0 0	511	2,558 2,046	
ED Existing Data Review	C	100	0 2,313	0 0	2,313	2,324 10	
C1 Civil Engineering Design - G	C	100	0 17,119	0 0	17,119	15,866 -1,253	
G1 Predesign - Geotechnical	C	100	0 8,397	0 0	8,397	7,133 -1,263	
P1 Plans and Specifications - P	C	100	0 21,136	0 0	21,136	14,977 -6,159	
R8 Report - 1st Draft Predesign	C	100	0 5,758	0 0	5,758	6,897 1,138	
C3 Civil Eng - Intermediate Des	C	100	0 3,773	0 0	3,773	4,492 718	
G3 Geotechnical Eng - Intermedi	C	100	0 6,030	0 0	6,030	5,158 -872	
P2 Plans and Specifications - I	C	100	0 16,368	0 0	16,368	13,705 -2,662	
C4 Civil Eng - Final Design	C	100	0 884	0 0	884	4,082 3,198	
G4 Geotechnical Eng - Final Des	C	0	0 0	0 0	0	4,036 4,035	
P3 Plans and Specifications - F	C	100	0 14,047	0 0	14,047	18,722 4,675	
EC Estimates - Cost	C	100	0 2,458	0 0	2,458	3,074 615	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
 RUN DATE: 12/11/92
 RUN TIME: 09:50 AM
 AS OF: 11/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED	
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE		
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060	
QS QAPP/SSP/FSP	C	100	0	8,047	0	0	8,047	7,954	-92	
ML Manuals - Operations and Mai	C	100	0	3,381	0	0	3,381	6,526	3,145	
HS Health and Safety	C	100	0	4,149	0	0	4,149	4,005	-144	
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131	
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513	
Activity Total		100	0	156,219	0	0	156,219	174,128	17,907	
65602PC										
Project Closeout										
PC Project Closeout Procedures	A	100	0	829	0	0	829	8,878	8,048	
Activity Total		100	0	829	0	0	829	8,878	8,048	
65602PD										
Preliminary Design										
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590	
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063	
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288	
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218	
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	C	100	0	118,198	0	0	118,198	114,066	-4,132	
H1 Haz Waste Design - Process E	C	100	0	52,616	0	0	52,616	50,635	-1,981	
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	C	100	0	10,442	0	0	10,442	9,311	-1,131	
ZZ General	C	100	0	66	0	0	66		-65	
Activity Total		100	0	241,688	0	0	241,688	241,123	-565	
65602PP										
Project Planning - RD										
PM Project Management	A	100	28	16,958	0	0	16,958	17,858	899	
PP Project Planning General	C	100	0	3,869	0	0	3,869	2,917	-952	
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268	
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886	
ZZ General	A	100	0	1	0	0	1		-1	
Activity Total		100	28	31,825	0	0	31,825	32,926	1,100	
Work Assignment Total		100	28	808,681	0	0	808,681	810,764	2,076	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 12/11/92
 RUN TIME: 09:50 AM
 AS OF: 11/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
65602DS									
Design Support Activities									
PM Project Management	C	100	0	56	0	56	64	8	
QC Quality Control	C	100	0	35	0	35	64	29	
MG Meetings (External)	C	100	0	9	0	9	140	131	
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37	
MS Miscellaneous Support	C	0	0	0	0	0	80	80	
LS Landfill Cap Support	C	100	0	.15	0	15	28	13	
Activity Total			100	0	494	0	494	792	298
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	C	100	0	163	0	163	300	137	
EC Estimates - Cost	C	100	0	243	0	243	224	-19	
PM Project Management	C	100	0	234	0	234	236	2	
QC Quality Control	C	100	0	100	0	100	160	60	
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95	
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139	
MG Meetings (External)	C	100	0	34	0	34	100	66	
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216	
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124	
SL Construction Schedule Develo	C	100	0	205	0	205	382	177	
Activity Total			100	0	4,912	0	4,912	4,383	-529
65602LC									
LANDFILL CAP DESIGN									
WP EPA Workplan	C	100	0	80	0	80	88	8	
QC Quality Control	C	100	0	156	0	156	156		
PM Project Management	C	100	0	206	0	206	178	-28	
PP Project Planning General	C	100	0	9	0	9	30	21	
ED Existing Data Review	C	100	0	39	0	39	36	-3	
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22	
G1 Pre-design - Geotechnical	C	100	0	132	0	132	102	-30	
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155	
R8 Report - 1st Draft Pre-design	C	100	0	99	0	99	84	-15	
G3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7	
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27	
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56	
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46	
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56	
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68	
EC Estimates - Cost	C	100	0	48	0	48	48		
SL Construction Schedule Develo	C	100	0	32	0	32	74	42	
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4	
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 12/11/92
 RUN TIME: 09:50 AM
 AS OF: 11/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
HS Health and Safety	C	100	0 63	0 63	40 -23	
MG Meetings (External)	C	100	0 57	0 57	48 -9	
MS Miscellaneous Support	C	100	0 56	0 56	96 40	
Activity Total		100	0 2,347	0 2,347	2,306 -41	
65602PC						
Project Closeout						
PC Project Closeout Procedures	A	100	0 8	0 8	140 132	
Activity Total		100	0 8	0 8	140 132	
65602PD						
Preliminary Design						
EC Estimates - Cost	C	100	0 47	0 47	120 73	
PM Project Management	C	100	0 154	0 154	148 -6	
QC Quality Control	C	100	0 122	0 122	84 -38	
QS QAPP/SSP/FSP	C	100	0 157	0 157	240 83	
HS Health and Safety	C	100	0 6	0 6	48 42	
R7 Report - Predesign	C	100	0 311	0 311	264 -47	
H6 Haz Waste Design - Advanced	C	100	0 1,440	0 1,440	1,575 135	
H1 Haz Waste Design - Process E	C	100	0 800	0 800	638 -162	
MG Meetings (External)	C	100	0 51	0 51	80 29	
C1 Civil Engineering Design - G	C	100	0 123	0 123	60 -63	
Activity Total		100	0 3,211	0 3,211	3,257 46	
65602PP						
Project Planning - RD						
PM Project Management	A	100	0 153	0 153	272 119	
PP Project Planning General	C	100	0 50	0 50	40 -10	
QC Quality Control	C	100	0 22	0 22	24 2	
WP EPA Workplan	C	100	0 123	0 123	142 19	
Activity Total		100	0 348	0 348	478 130	
Work Assignment Total		100	0 11,320	0 11,320	11,356 36	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR NOV 92

REPORT: ACC335
 PAGE: 1
 RUN DATE: 12/11/92
 RUN TIME: 05:55 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
FAGNANT T A	0	0		
TOTAL		0	TOTAL DOLLARS	3.31

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER	
WDCA-VAX8600	18.77
ODC COMPUTER TOTAL	18.77
TOTAL	18.77

6. OVERHEAD

Base	Rate	
3.31	0.4300	1.42

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR NOV 92

REPORT: ACC335
 PAGE: 2
 RUN DATE: 12/11/92
 RUN TIME: 05:55 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
3.31	1.2500	4.14

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	27.64	0.0300	0.83
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			0.83

17. TOTAL INVOICE AMOUNT 28.47

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR NOV 92

REPORT: ACC335
 PAGE: 3
 RUN DATE: 12/11/92
 RUN TIME: 05:55 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
EQUIPMENT	32.70	
TOTAL		32.70

5. OTHER DIRECT COSTS

ODC SUPPLIES

SUPPLIES	-9.02	
SUPPLIES	-23.68	
ODC SUPPLIES TOTAL	-32.70	
TOTAL		-32.70

6. OVERHEAD

Base	Rate	TOTAL
0.00	0.4300	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR NOV 92

REPORT: ACC335
 PAGE: 4
 RUN DATE: 12/11/92
 RUN TIME: 05:55 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	0.00	0.0300	0.00
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			0.00

17. TOTAL INVOICE AMOUNT 0.00

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 12/11/92
 RUN TIME: 09:41
 AS OF: 11/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 A	30+	5
Final Design - GWT	01/21/92		08/07/92 A	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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 NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$900.849
AUTHORIZED BUDGET: \$900.849

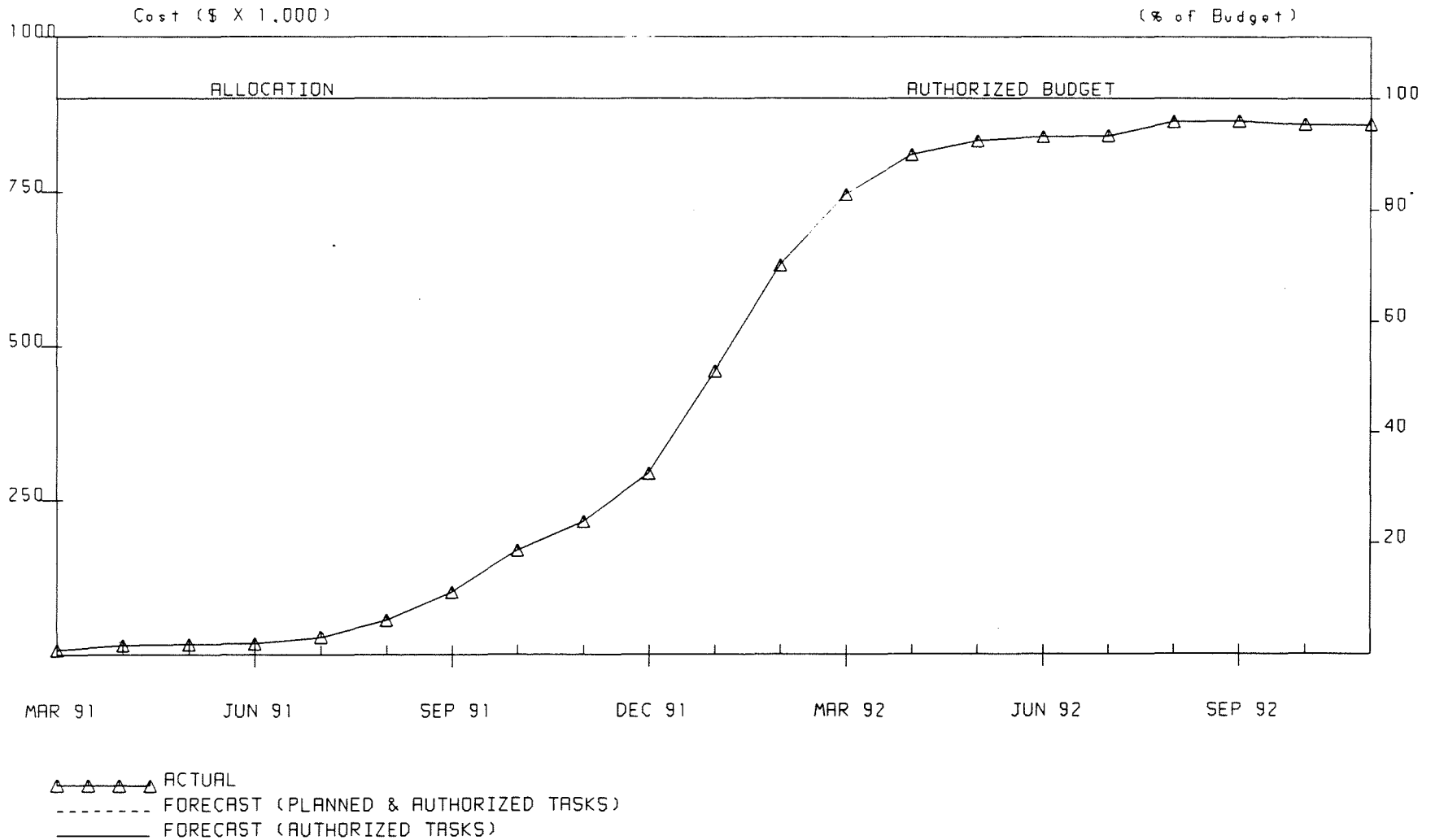
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 12/11/92
RUN TIME: 10:49 AM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

November 1992



MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

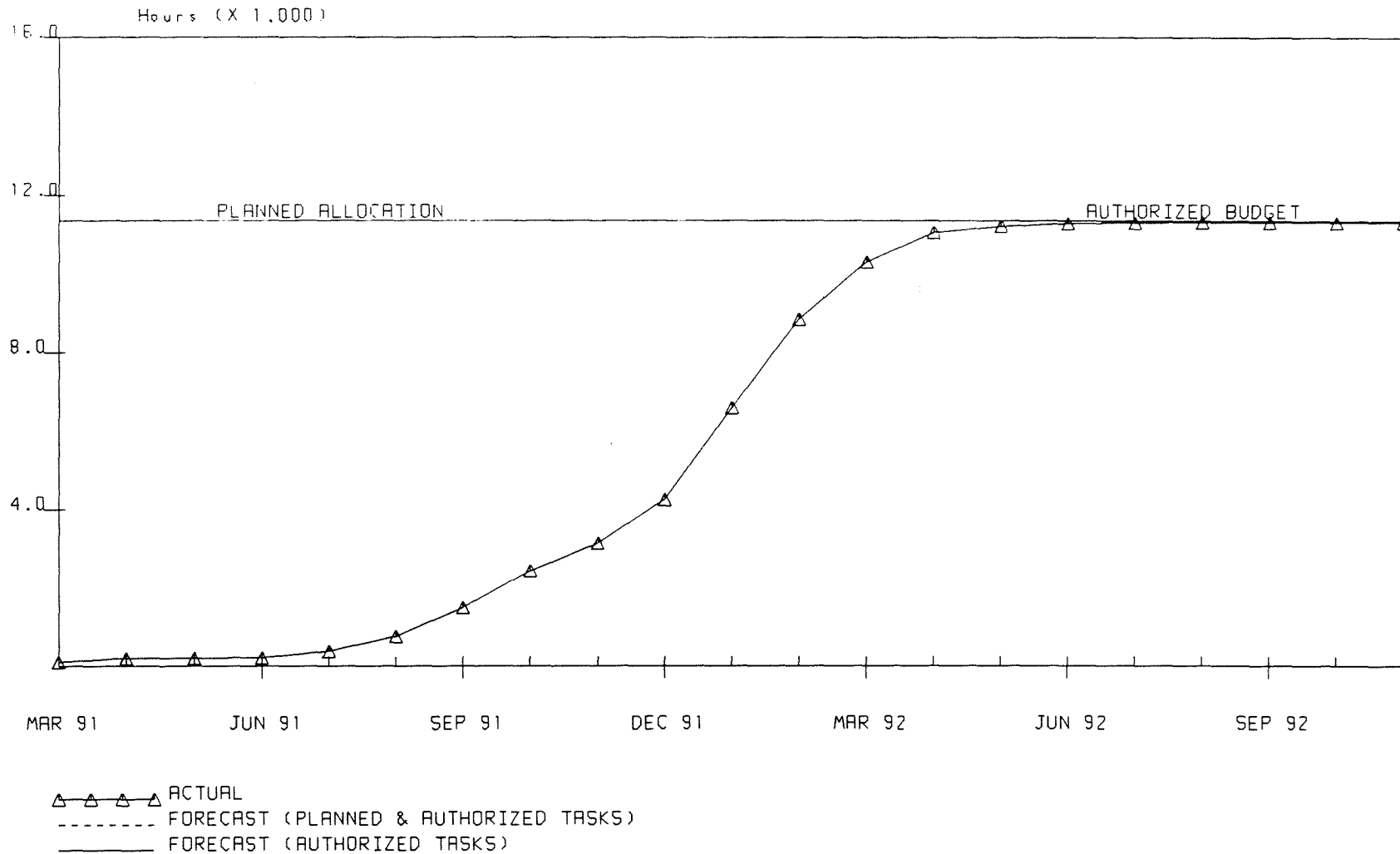
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 12/11/92
RUN TIME: 10:49 AM

ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

November 1992



ARCS V TECHNICAL STATUS REPORT

December 1992

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: December 31, 1992

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee
 RTL: Phil Smith, CH2M HILL, Milwaukee
 Mark Giesfeldt, WDNR, Madison

1. Progress Made This Reporting Period

Project closeout is under way.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Project closeout is expected to be completed. The WACR will be submitted to the EPA.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

Limited activity for this reporting period precludes a performance evaluation.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 137
 RUN DATE: 01/12/93
 RUN TIME: 10:45 AM
 AS OF: 12/92

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
65602DS									
Design Support Activities									
PM		C 100	0	4,009	0	0	4,948	939	
QC		C 100	0	2,929	0	0	5,107	2,177	
ZZ		C 100	0	-6	0	0	-6	5	
MG		C 100	0	737	0	0	10,221	9,484	
GM		C 100	0	26,892	0	0	29,355	2,463	
MS		C 0	0	0	0	0	5,457	5,456	
LS		C 100	0	1,059	0	0	1,845	785	
Activity Total			0	35,620	0	0	56,933	21,309	
65602FD									
Prefinal/Final Design									
DS		C 100	0	24,797	0	0	20,556	-4,241	
EC		C 100	0	16,445	0	0	15,185	-1,260	
PM		C 100	0	20,801	0	0	16,598	-4,202	
QC		C 100	0	8,210	0	0	13,513	5,302	
ZZ		C 100	0	-273	0	0	-273	272	
GX		C 100	0	15,252	0	0	23,907	8,654	
GT		C 100	0	186,874	0	0	112,057	-74,816	
MG		C 100	0	2,436	0	0	7,397	4,961	
ML		C 100	0	5,315	0	0	18,865	13,549	
IT		C 100	0	46,885	0	0	42,863	-4,021	
SL		C 100	0	15,756	0	0	25,836	10,079	
Activity Total			0	342,499	0	0	296,777	-45,723	
65602LC									
LANDFILL CAP DESIGN									
ZZ		C 100	0	-7	0	0	-7	7	
WP		C 100	0	4,841	0	0	6,877	2,035	
QC		C 100	0	12,964	0	0	14,743	1,779	
PM		C 100	0	15,180	0	0	14,689	-491	
PP		C 100	0	511	0	0	2,558	2,046	
ED		C 100	0	2,313	0	0	2,324	10	
C1		C 100	0	17,119	0	0	15,866	-1,253	
G1		C 100	0	8,397	0	0	7,133	-1,263	
P1		C 100	0	21,136	0	0	14,977	-6,159	
R8		C 100	0	5,758	0	0	6,897	1,138	
C3		C 100	0	3,773	0	0	4,492	718	
G3		C 100	0	6,030	0	0	5,158	-872	
P2		C 100	0	16,368	0	0	13,705	-2,662	
C4		C 100	0	884	0	0	4,082	3,198	
G4		C 0	0	0	0	0	4,036	4,035	
P3		C 100	0	14,047	0	0	18,722	4,675	
EC		C 100	0	2,458	0	0	3,074	615	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 138
 RUN DATE: 01/12/93
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 AS OF: 12/92

TOTAL COST

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
SL Construction Schedule Develop	C	100	0	2,016	0	2,016	5,076	3,060	
QS QAPP/SSP/FSP	C	100	0	8,047	0	8,047	7,954	-92	
ML Manuals - Operations and Mai	C	100	0	3,381	0	3,381	6,526	3,145	
HS Health and Safety	C	100	0	4,149	0	4,149	4,005	-144	
MG Meetings (External)	C	100	0	3,583	0	3,583	3,452	-131	
MS Miscellaneous Support	C	100	0	3,270	0	3,270	7,783	4,513	
Activity Total		100	0	156,219	0	156,219	174,128	17,907	
65602PC									
Project Closeout									
PC Project Closeout Procedures	A	100	58	887	0	887	8,878	7,990	
Activity Total		100	58	887	0	887	8,878	7,990	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	2,450	0	2,450	7,041	4,590	
PM Project Management	C	100	0	11,277	0	11,277	10,213	-1,063	
QC Quality Control	C	100	0	9,419	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	C	100	0	11,341	0	11,341	16,629	5,288	
HS Health and Safety	C	100	0	406	0	406	3,625	3,218	
R7 Report - Predesign	C	100	0	22,093	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	C	100	0	118,198	0	118,198	114,066	-4,132	
H1 Haz Waste Design - Process E	C	100	0	52,616	0	52,616	50,635	-1,981	
MG Meetings (External)	C	100	0	3,380	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	C	100	0	10,442	0	10,442	9,311	-1,131	
ZZ General	C	100	0	66	0	66		-65	
Activity Total		100	0	241,688	0	241,688	241,123	-565	
65602PP									
Project Planning - RD									
PM Project Management	A	100	62	17,021	0	17,021	17,858	837	
PP Project Planning General	C	100	0	3,869	0	3,869	2,917	-952	
QC Quality Control	C	100	0	1,611	0	1,611	1,879	268	
WP EPA Workplan	C	100	0	9,385	0	9,385	10,272	886	
ZZ General	A	100	18	19	0	19		-19	
Activity Total		100	80	31,905	0	31,905	32,926	1,020	
Work Assignment Total		100	139	808,819	0	808,819	810,764	1,938	

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 139
 RUN DATE: 01/12/93
 RUN TIME: 10:45 AM
 AS OF: 12/92

T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE	BUDGET	VARIANCE	

AUTH. TASKS w/INVOICED FEE	143	859,636						
AUTH. TASKS w/EST. FULL FEE	148	897,489		0	897,489	900,849	3,359	
ALL TASKS w/EST. FULL FEE		897,489		0	897,489			0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

JAN93	FEB93	MAR93	APR93	MAY93	JUN93
0	0	0	0	0	0
897,489	897,489	897,489	897,489	897,489	897,489

Direct Labor	33	Indirects	55
Equipment	0	Base Fee	4
ODC	51	Award Fee	0
Subcontracts	0	Travel	0
Laboratory Service	0	TOTAL	143

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 140
 RUN DATE: 01/12/93
 RUN TIME: 10:45 AM
 AS OF: 12/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR. SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	C	100	0	56	0	56	64	8
QC Quality Control	C	100	0	35	0	35	64	29
MG Meetings (External)	C	100	0	9	0	9	140	131
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37
MS Miscellaneous Support	C	0	0	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		100	0	494	0	494	792	298
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	C	100	0	163	0	163	300	137
EC Estimates - Cost	C	100	0	243	0	243	224	-19
PM Project Management	C	100	0	234	0	234	236	2
QC Quality Control	C	100	0	100	0	100	160	60
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139
MG Meetings (External)	C	100	0	34	0	34	100	66
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124
SL Construction Schedule Develo	C	100	0	205	0	205	382	177
Activity Total		100	0	4,912	0	4,912	4,383	-529
65602LC								
LANDFILL CAP DESIGN								
WP EPA Workplan	C	100	0	80	0	80	88	8
QC Quality Control	C	100	0	156	0	156	156	
PM Project Management	C	100	0	206	0	206	178	-28
PP Project Planning General	C	100	0	9	0	9	30	21
ED Existing Data Review	C	100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68
EC Estimates - Cost	C	100	0	48	0	48	48	
SL Construction Schedule Develo	C	100	0	32	0	32	74	42
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
 PAGE: 141
 RUN DATE: 01/12/93
 RUN TIME: 10:45 AM
 AS OF: 12/92

P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED
HS Health and Safety	C	100	0 63	0 63	40 -23	
MG Meetings (External)	C	100	0 57	0 57	48 -9	
MS Miscellaneous Support	C	100	0 56	0 56	96 40	
Activity Total		100	0 2,347	0 2,347	2,306 -41	
65602PC						
Project Closeout						
PC Project Closeout Procedures	A	100	1 9	0 9	140 131	
Activity Total		100	1 9	0 9	140 131	
65602PD						
Preliminary Design						
EC Estimates - Cost	C	100	0 47	0 47	120 73	
PM Project Management	C	100	0 154	0 154	148 -6	
QC Quality Control	C	100	0 122	0 122	84 -38	
QS QAPP/SSP/FSP	C	100	0 157	0 157	240 83	
HS Health and Safety	C	100	0 6	0 6	48 42	
R7 Report - Predesign	C	100	0 311	0 311	264 -47	
H6 Haz Waste Design - Advanced	C	100	0 1,440	0 1,440	1,575 135	
H1 Haz Waste Design - Process E	C	100	0 800	0 800	638 -162	
MG Meetings (External)	C	100	0 51	0 51	80 29	
C1 Civil Engineering Design - G	C	100	0 123	0 123	60 -63	
Activity Total		100	0 3,211	0 3,211	3,257 46	
65602PP						
Project Planning - RD						
PM Project Management	A	100	0 153	0 153	272 119	
PP Project Planning General	C	100	0 50	0 50	40 -10	
QC Quality Control	C	100	0 22	0 22	24 2	
WP EPA Workplan	C	100	0 123	0 123	142 19	
Activity Total		100	0 348	0 348	478 130	
Work Assignment Total		100	1 11,321	0 11,321	11,356 35	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR DEC 92

REPORT: ACC335
 PAGE: 1
 RUN DATE: 01/12/93
 RUN TIME: 01:58 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked		
FAGNANT T A	0	1		
TOTAL		1	TOTAL DOLLARS	11.03

2. TRAVEL

Name	Travel Costs	Lodging, Meals & Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

GDWMACINTOSH	18.03	
GDWMACINTOSH	32.75	
ODC COMPUTER TOTAL	50.78	
TOTAL		50.78

6. OVERHEAD

Base	Rate	
11.03	0.4300	4.74

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR DEC 92

REPORT: ACC335
 PAGE: 2
 RUN DATE: 01/12/93
 RUN TIME: 01:58 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
11.03	1.2500	13.79

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	80.34	0.0300	2.41
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			2.41

17. TOTAL INVOICE AMOUNT 82.75

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR DEC 92

REPORT: ACC335
 PAGE: 3
 RUN DATE: 01/12/93
 RUN TIME: 01:58 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked		
HARGREAVES K K	P1	1		
TOTAL		1	TOTAL DOLLARS	21.73

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

TOTAL	0.00
-------	------

6. OVERHEAD

Base	Rate	
21.73	0.4300	9.35

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
21.73	1.2500	27.16

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR DEC 92

REPORT: ACC335
 PAGE: 4
 RUN DATE: 01/12/93
 RUN TIME: 01:58 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	58.24	0.0300	1.75
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			1.75

17. TOTAL INVOICE AMOUNT 59.99

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 01/04/93
 RUN TIME: 05:25
 AS OF: 11/92

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----			
	ORIGINAL DATE	REVISED DATE	PLANNED = P	VARI- ANCE = A	NOTE	
Design Support Activities						
GW Monitoring Plan	10/15/91		01/31/92	A	30+	1
Prefinal/Final Design						
Prefinal Design - GWT	11/20/91		03/31/92	A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92	A	30+	3
Draft O&M Manual	10/28/91		04/09/92	A	30+	4
Final Design - ISB	01/13/92		08/07/92	A	30+	5
Final Design - GWT	01/21/92		08/07/92	A	30+	6
LANDFILL CAP DESIGN						
Dredged Sediment Evaluation Memo	12/09/91		12/09/91	A		7
60 Percent Design Submittal	01/28/92		01/28/92	A		8
90 Percent Design Submittal	03/04/92		03/25/92	A	21	9
Construction Schedule	04/13/92		04/28/92	A	15	10
Construction Cost Estimate	04/13/92		04/28/92	A	15	11
Draft O&M Manual	04/13/92		04/28/92	A	15	12
Draft & Final Submittal	04/01/92		05/01/92	A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92	A	30+	14
Preliminary Design						
Bioremediation QAPP	07/07/91		08/14/91	A	30+	15
Predesign Report - GWT	08/30/91		10/18/91	A	30+	16
Predesign Report - ISB	08/23/91		01/31/92	A	30+	17
Project Planning - RD						
Work Assignment Received by CH2M HILL	03/04/91		03/04/91	A		18
Submit Final Work Plan	04/17/91		04/17/91	A		19
Submit Revised Final Work Plan	05/23/91		05/23/91	A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91	A	30+	21

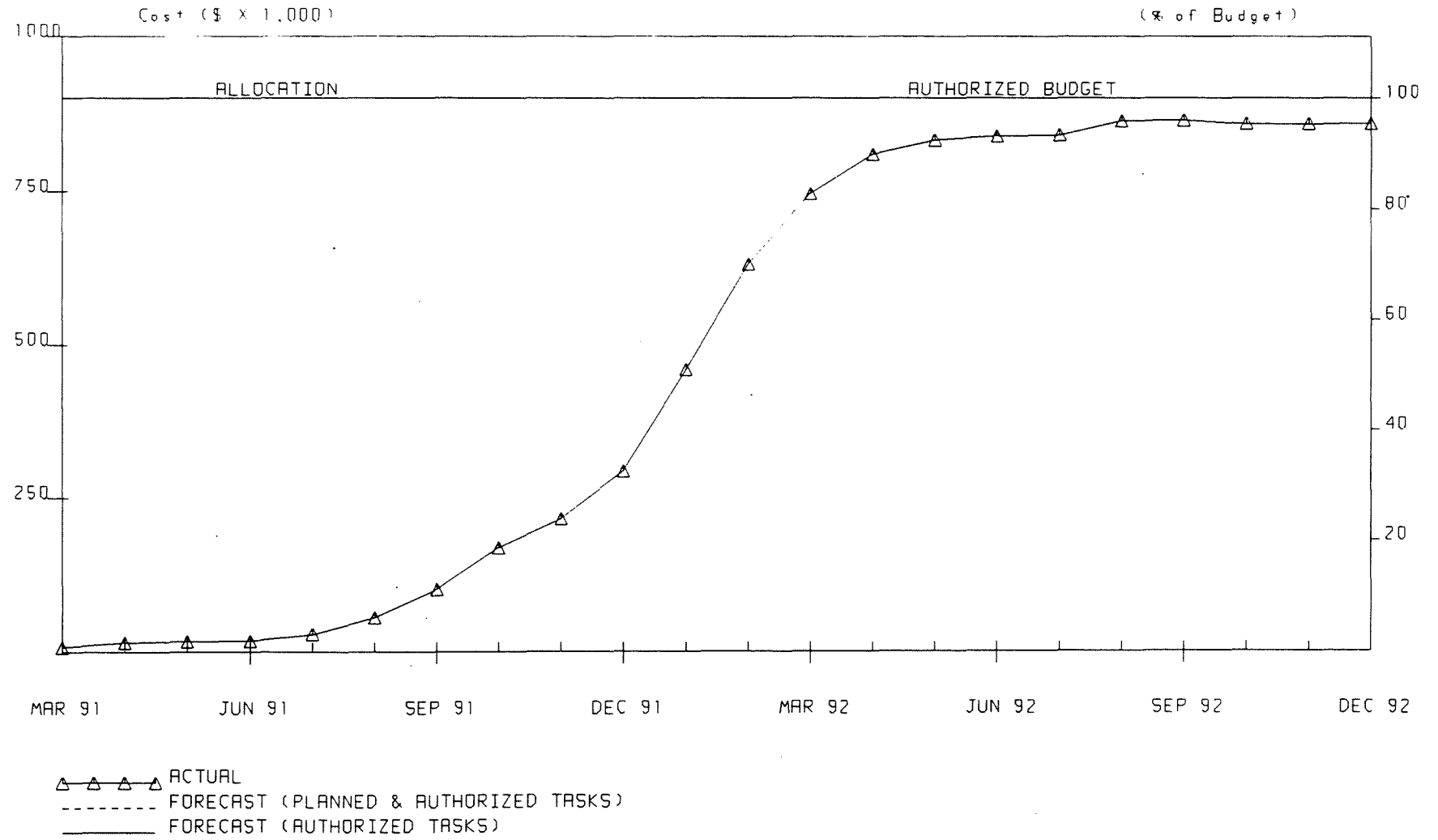
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NOTES:

MASTER PROJECT: GLO65602
 STATUS: REVISION REQUEST
 ALLOCATION: \$900.849
 AUTHORIZED BUDGET: \$900.849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 CUMULATIVE SUMMARY
 38-5NL5
 ONALASKA MUNICIPAL LANDFILL, WI
 TOTAL COSTS (W/FEES)
 December 1992

REPORT: PRJ091
 RUN DATE: 01/12/93
 RUN TIME: 10:01 AM



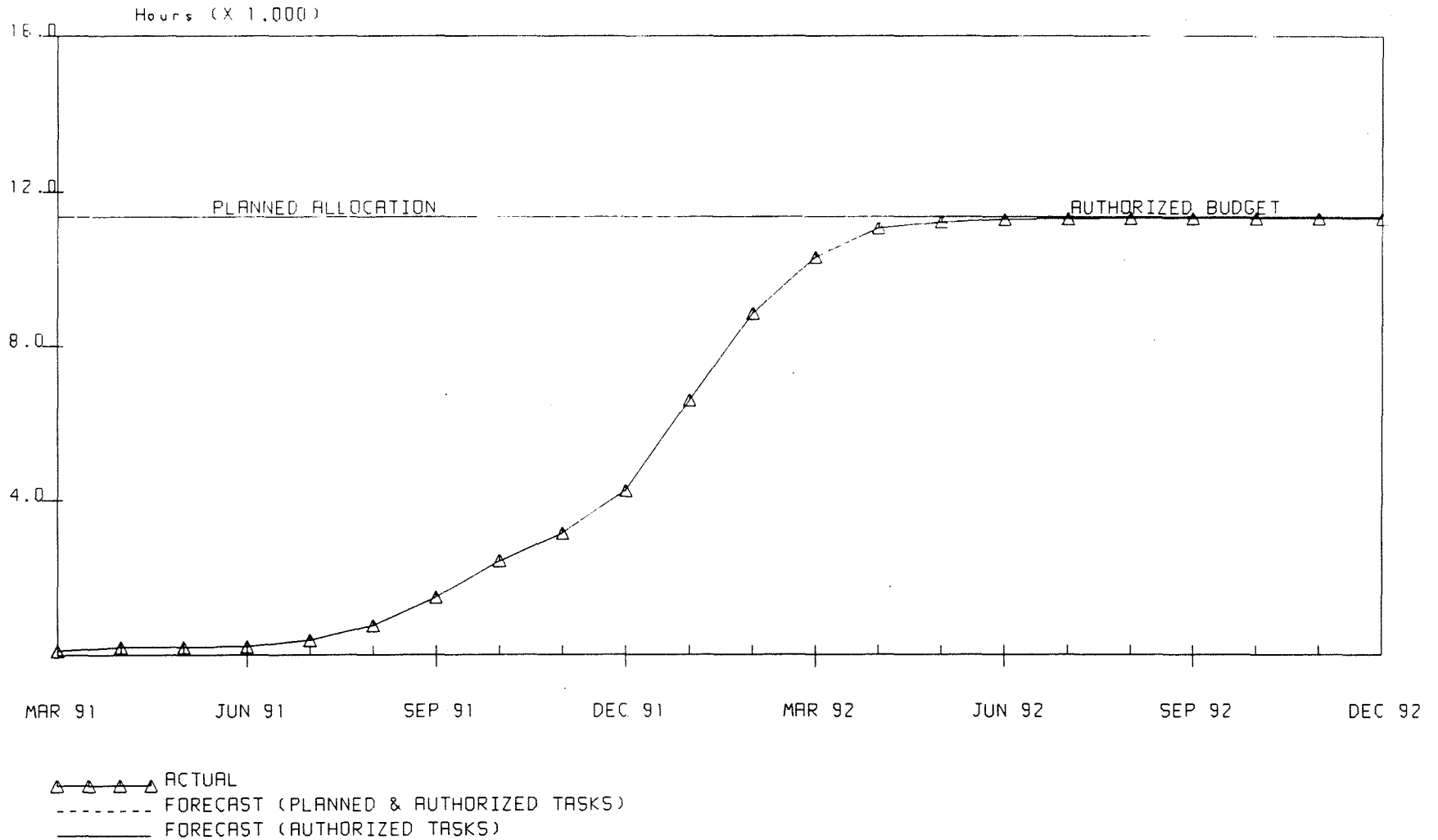
MASTER PROJECT: GLO65502
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 01/12/93
RUN TIME: 10:01 AM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

December 1992



ARCS V TECHNICAL STATUS REPORT

January 1993

WORK ASSIGNMENT NUMBER: 38-5NL5

SITE NAME: Onalaska Municipal Landfill, WI

ACTIVITY: RD

CH2M HILL JOB NUMBER: GLO65602

PREPARED BY: Steve Keith, Site Manager

PERIOD ENDING: January 31, 1993

COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
 PM: Alpheus Sloan III, CH2M HILL, Milwaukee, WI
 RTL: Phil Smith, CH2M HILL, Milwaukee, WI
 Mark Giesfeldt, WDNR, Madison, WI

1. Progress Made This Reporting Period

Project closeout activities have been completed. Because design staff may need to review design calculations and memorandums produced as part of the design, the closed files will be retained at the Milwaukee office until completion of the remedial action.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

The WACR will be submitted to the EPA.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

Limited activity for this reporting period precludes a performance evaluation.

GLT225/038.51

ASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 AS OF: 01/93

T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
65602DS									
Design Support Activities									
PM Project Management	C	100	0	4,009	0	0	4,009	4,948	939
QC Quality Control	C	100	0	2,929	0	0	2,929	5,107	2,177
ZZ General	C	100	0	-6	0	0	-6		5
MG Meetings (External)	C	100	0	737	0	0	737	10,221	9,484
GM Groundwater Monitoring Plan	C	100	0	26,892	0	0	26,892	29,355	2,463
MS Miscellaneous Support	C	0	0	0	0	0	0	5,457	5,456
LS Landfill Cap Support	C	100	0	1,059	0	0	1,059	1,845	785
Activity Total		100	0	35,620	0	0	35,620	56,933	21,309
65602FD									
Prefinal/Final Design									
DS Plans and Specifications	C	100	0	24,797	0	0	24,797	20,556	-4,241
EC Estimates - Cost	C	100	0	16,445	0	0	16,445	15,185	-1,260
PM Project Management	C	100	0	20,801	0	0	20,801	16,598	-4,202
QC Quality Control	C	100	0	8,210	0	0	8,210	13,513	5,302
ZZ General	C	100	0	-273	0	0	-273		272
GX Groundwater Extraction Desig	C	100	0	15,252	0	0	15,252	23,907	8,654
GT Groundwater Treatment Design	C	100	0	186,874	0	0	186,874	112,057	-74,816
MG Meetings (External)	C	100	0	2,436	0	0	2,436	7,397	4,961
ML Manuals - Operations and Mai	C	100	0	5,315	0	0	5,315	18,865	13,549
IT Insitu Treatment Design	C	100	0	46,885	0	0	46,885	42,863	-4,021
SL Construction Schedule Develo	C	100	0	15,756	0	0	15,756	25,836	10,079
Activity Total		100	0	342,499	0	0	342,499	296,777	-45,723
65602LC									
LANDFILL CAP DESIGN									
ZZ General	C	100	0	-7	0	0	-7		7
WP EPA Workplan	C	100	0	4,841	0	0	4,841	6,877	2,035
QC Quality Control	C	100	0	12,964	0	0	12,964	14,743	1,779
PM Project Management	C	100	0	15,180	0	0	15,180	14,689	-491
PP Project Planning General	C	100	0	511	0	0	511	2,558	2,046
ED Existing Data Review	C	100	0	2,313	0	0	2,313	2,324	10
C1 Civil Engineering Design - G	C	100	-9	17,110	0	0	17,110	15,866	-1,243
G1 Predesign - Geotechnical	C	100	0	8,397	0	0	8,397	7,133	-1,263
P1 Plans and Specifications - P	C	100	0	21,136	0	0	21,136	14,977	-6,159
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	0	5,758	6,897	1,138
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	0	3,773	4,492	718
G3 Geotechnical Eng - Intermedi	C	100	0	6,030	0	0	6,030	5,158	-872
P2 Plans and Specifications - I	C	100	0	16,368	0	0	16,368	13,705	-2,662
C4 Civil Eng - Final Design	C	100	0	884	0	0	884	4,082	3,198
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	0	4,036	4,035
P3 Plans and Specifications - F	C	100	0	14,047	0	0	14,047	18,722	4,675
EC Estimates - Cost	C	100	0	2,458	0	0	2,458	3,074	615

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----	----- ESTIMATED -----	----- AUTHORIZED -----	WP/WPRR			
			CURRENT	TO DATE	UNRECORDED TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	SUBMITTED
SL Construction Schedule Developo	C	100	0	2,016	0	2,016	5,076	3,060	
QS QAPP/SSP/FSP	C	100	0	8,047	0	8,047	7,954	-92	
ML Manuals - Operations and Mai	C	100	0	3,381	0	3,381	6,526	3,145	
HS Health and Safety	C	100	0	4,149	0	4,149	4,005	-144	
MG Meetings (External)	C	100	0	3,583	0	3,583	3,452	-131	
MS Miscellaneous Support	C	100	0	3,270	0	3,270	7,783	4,513	
Activity Total		100	-9	156,210	0	156,210	174,128	17,917	
65602PC									
Project Closeout									
PC Project Closeout Procedures	C	100	64	951	0	951	8,878	7,926	
Activity Total		100	64	951	0	951	8,878	7,926	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	2,450	0	2,450	7,041	4,590	
PM Project Management	C	100	0	11,277	0	11,277	10,213	-1,063	
QC Quality Control	C	100	0	9,419	0	9,419	5,851	-3,568	
QS QAPP/SSP/FSP	C	100	0	11,341	0	11,341	16,629	5,288	
HS Health and Safety	C	100	0	406	0	406	3,625	3,218	
R7 Report - Predesign	C	100	0	22,093	0	22,093	17,989	-4,103	
H6 Haz Waste Design - Advanced	C	100	-7	118,191	0	118,191	114,066	-4,125	
H1 Haz Waste Design - Process E	C	100	-5	52,612	0	52,612	50,635	-1,976	
MG Meetings (External)	C	100	-0	3,380	0	3,380	5,763	2,382	
C1 Civil Engineering Design - G	C	100	25	10,467	0	10,467	9,311	-1,156	
ZZ General	C	100	42	108	0	108		-107	
Activity Total		100	55	241,743	0	241,743	241,123	-620	
65602PP									
Project Planning - RD									
PM Project Management	C	100	0	17,021	0	17,021	17,858	837	
PP Project Planning General	C	100	-3	3,866	0	3,866	2,917	-948	
QC Quality Control	C	100	0	1,611	0	1,611	1,879	268	
WP EPA Workplan	C	100	0	9,385	0	9,385	10,272	886	
ZZ General	C	100	72	92	0	92		-91	
Activity Total		100	69	31,974	0	31,974	32,926	952	
Work Assignment Total		100	179	808,998	0	808,998	810,764	1,761	

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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TOTAL COST

ACTIVITY/TASK	PCT STATUS EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
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AUTH. TASKS w/INVOICED FEE	184	859,820					
AUTH. TASKS w/EST. FULL FEE	190	897,679	0	897,679	900,849	3,169	
ALL TASKS w/EST. FULL FEE		897,679	0	897,679			0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

FEB93	MAR93	APR93	MAY93	JUN93	JUL93
0	0	0	0	0	0
897,679	897,679	897,679	897,679	897,679	897,679

Direct Labor	23	Indirects	39
Equipment	0	Base Fee	5
ODC	141	Award Fee	0
Subcontracts	0	Travel	-25
Laboratory Service	0	TOTAL	184

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	C	100	0	56	0	56	64	8
QC Quality Control	C	100	0	35	0	35	64	29
MG Meetings (External)	C	100	0	9	0	9	140	131
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37
MS Miscellaneous Support	C	0	0	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		100	0	494	0	494	792	298
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	C	100	0	163	0	163	300	137
EC Estimates - Cost	C	100	0	243	0	243	224	-19
PM Project Management	C	100	0	234	0	234	236	2
QC Quality Control	C	100	0	100	0	100	160	60
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139
MG Meetings (External)	C	100	0	34	0	34	100	66
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124
SL Construction Schedule Develo	C	100	0	205	0	205	382	177
Activity Total		100	0	4,912	0	4,912	4,383	-529
65602LC								
LANDFILL CAP DESIGN								
WP EPA Workplan	C	100	0	80	0	80	88	8
QC Quality Control	C	100	0	156	0	156	156	
PM Project Management	C	100	0	206	0	206	178	-28
PP Project Planning General	C	100	0	9	0	9	30	21
ED Existing Data Review	C	100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68
EC Estimates - Cost	C	100	0	48	0	48	48	
SL Construction Schedule Develo	C	100	0	32	0	32	74	42
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL -----		----- ESTIMATED -----		----- AUTHORIZED -----		WP/WPRR SUBMITTED
			CURRENT	TO DATE	TO COMPLETE	AT COMPLETE	BUDGET	VARIANCE	
HS Health and Safety	C	100	0	63	0	63	40	-23	
MG Meetings (External)	C	100	0	57	0	57	48	-9	
MS Miscellaneous Support	C	100	0	56	0	56	96	40	
Activity Total		100	0	2,347	0	2,347	2,306	-41	
65602PC									
Project Closeout									
PC Project Closeout Procedures	C	100	1	10	0	10	140	130	
Activity Total		100	1	10	0	10	140	130	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	
PM Project Management	C	100	0	154	0	154	148	-6	
QC Quality Control	C	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	
HS Health and Safety	C	100	0	6	0	6	48	42	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	
MG Meetings (External)	C	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	
Activity Total		100	0	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	C	100	0	153	0	153	272	119	
PP Project Planning General	C	100	0	50	0	50	40	-10	
QC Quality Control	C	100	0	22	0	22	24	2	
WP EPA Workplan	C	100	0	123	0	123	142	19	
Activity Total		100	0	348	0	348	478	130	
Work Assignment Total		100	1	11,322	0	11,322	11,356	34	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
Unidentified	-0.95	-2.19	-2.19	0.00	-3.14			
SUBTOTAL	-0.95	-2.19	-2.19	0.00	-3.14			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					-3.14			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

GDWMACINTOSH	-18.03
WAN-302885	5.46
LAN-302885	5.46
USE-302885	30.35
CADCOMPAQ DE	49.17

ODC COMPUTER TOTAL 72.41

TOTAL 72.41

6. OVERHEAD

Base	Rate
0.00	0.4300
	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	69.27	0.0300	2.08
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			2.08

17. TOTAL INVOICE AMOUNT 71.35

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

1. DIRECT LABOR

Name	P Level	Hours Worked		
BOERSMA P M	P3	1		
TOTAL		1	TOTAL DOLLARS	23.25

2. TRAVEL

Name	Travel Costs	Lodging, Meals & Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC CHEM PROT SURCHG		
H&S PROGRAM	1.68	
ODC CHEM PROT SURCHG TOTAL	1.68	
TOTAL		1.68

6. OVERHEAD

Base	Rate	
23.25	0.4300	10.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PC.00:Project Closeout

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
23.25	1.2500	29.06

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	63.99	0.0300	1.92
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			1.92

17. TOTAL INVOICE AMOUNT 65.91

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
Unidentified	-2.64	-9.52	-9.52	0.00	-12.16			
SUBTOTAL	-2.64	-9.52	-9.52	0.00	-12.16			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					-12.16			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

WAN-302769	2.10
LAN-302769	2.10
USE-302769	18.64
CADCOMPAQ DE	18.87
ODC COMPUTER TOTAL	41.71

ODC POSTAGE

24FEDEX	12.66
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CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

5. OTHER DIRECT COSTS

ODC POSTAGE

 24FEDEX 12.66

ODC POSTAGE TOTAL 25.32

TOTAL 67.03

6. OVERHEAD

Base	Rate	
-----	-----	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
-----	-----	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
-----	-----	-----	-----
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
FOR PROJECT 65602PD.00:Preliminary Design

14. BASE FEE

	Base	Rate	Total	
	-----	-----	-----	
LINES 1 THROUGH 8	54.87	0.0300	1.65	
SPECIAL SUB POOL	0.00	0.0250	0.00	
TOTAL BASE FEE				1.65
17. TOTAL INVOICE AMOUNT				56.52

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

1. DIRECT LABOR

Name	P Level	Hours Worked		
TOTAL		0	TOTAL DOLLARS	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
Unidentified	-2.52	-6.74	-6.74	0.00	-9.26			
SUBTOTAL	-2.52	-6.74	-6.74	0.00	-9.26			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					-9.26			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	
TOTAL		0.00

5. OTHER DIRECT COSTS

TOTAL	0.00
-------	------

6. OVERHEAD

Base	Rate	
0.00	0.4300	0.00

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR JAN 93

REPORT: ACC335
 PAGE: 9
 RUN DATE: 02/10/93
 RUN TIME: 02:02 PM

IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602LC.00:LANDFILL CAP DESIGN

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-9.26	0.0300	-0.28
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			-0.28

17. TOTAL INVOICE AMOUNT -9.54

MASTER PROJECT: GL065602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
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MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 A	30+	5
Final Design - GWT	01/21/92		08/07/92 A	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Predesign Report - GWT	08/30/91		10/18/91 A	30+	16
Predesign Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$900.849
AUTHORIZED BUDGET: \$900.849

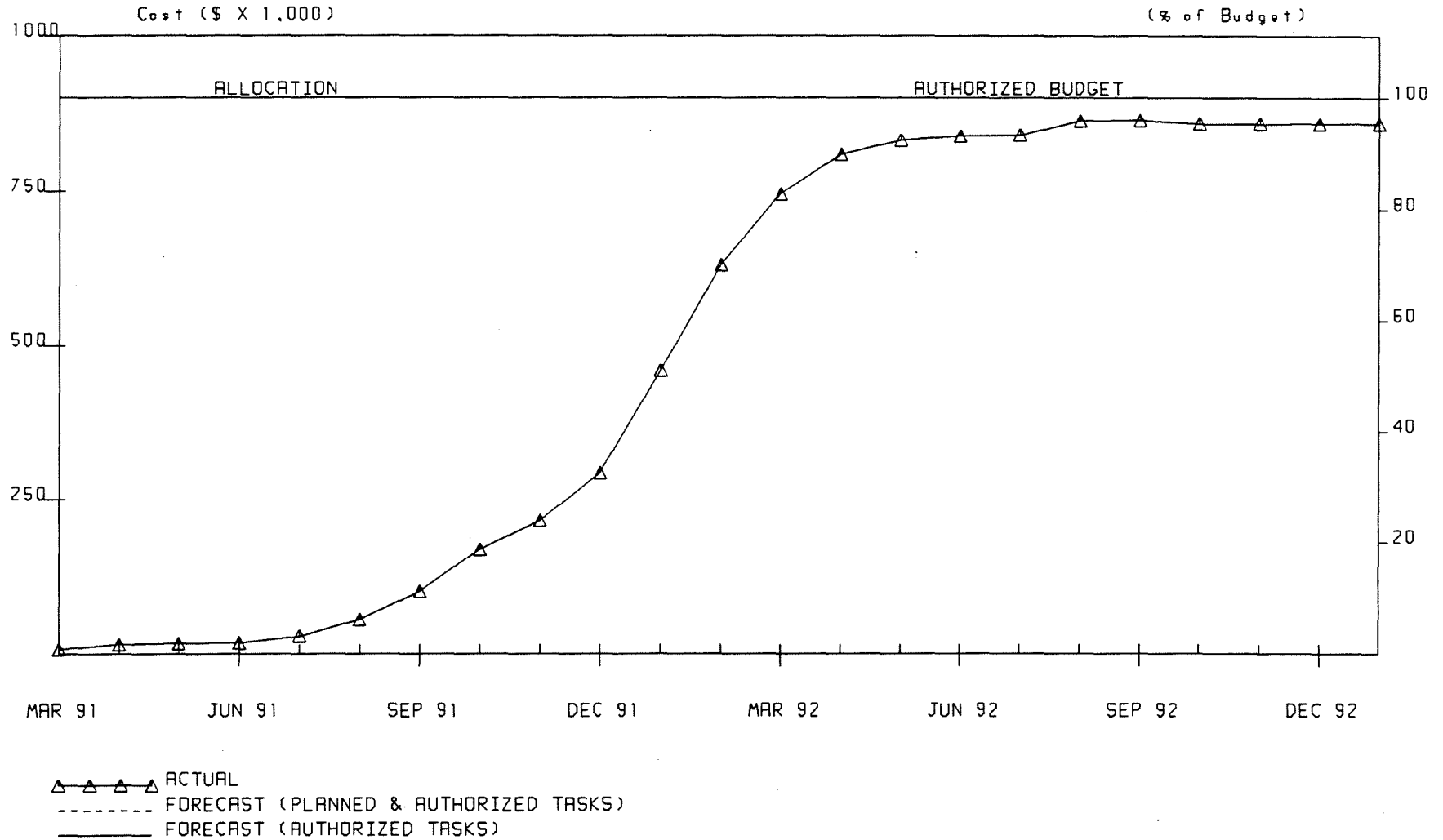
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 02/09/93
RUN TIME: 05:25 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

January 1993



MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

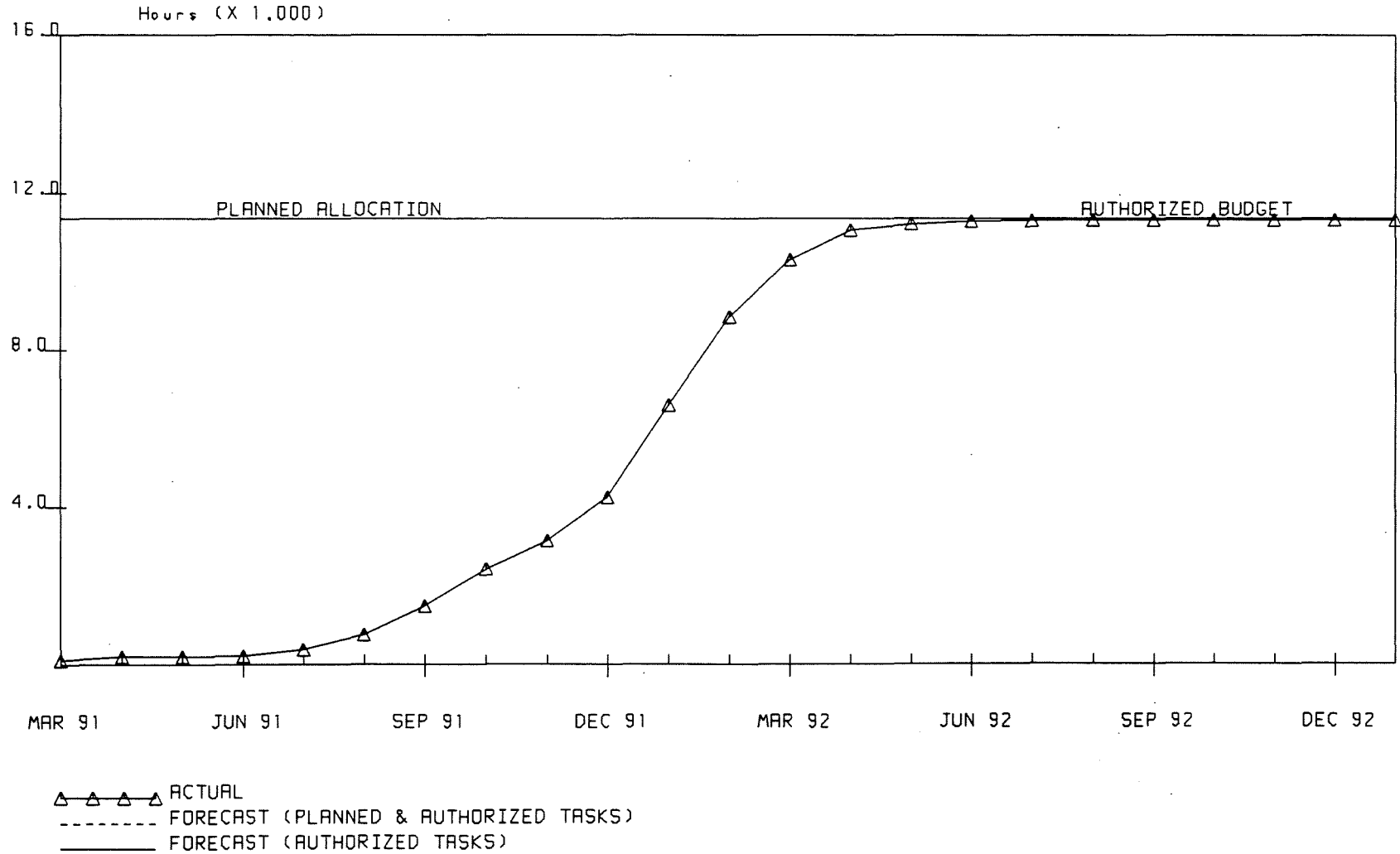
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 02/09/93
RUN TIME: 05:25 PM

ONALASKA MUNICIPAL LANDFILL, WI

PROFESSIONAL HOURS

January 1993



ARCS V TECHNICAL STATUS REPORT

February 1993

WORK ASSIGNMENT NUMBER: 38-5NL5
SITE NAME: Onalaska Municipal Landfill, WI
ACTIVITY: RD
CH2M HILL JOB NUMBER: GLO65602
PREPARED BY: Steve Keith, Site Manager
PERIOD ENDING: February 28, 1993
COPIES: **RPM:** Kevin Adler, U.S. EPA Region 5
PM: Alpheus Sloan III, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
Mark Giesfeldt, WDNR, Madison, WI

1. Progress Made This Reporting Period

The WACR has been written and will be submitted to the EPA in March. This is the last monthly technical status report for this work assignment.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

The WACR will be submitted to the EPA.

6. Key Personnel Changes

None.

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MAR 24 1993

BUREAU OF SOLID &
HAZARDOUS WASTE MANAGEMENT

7. Subcontractor Services

None.

8. Travel

None.

9. Laboratories

None.

10. Project Performance

Limited activity for this reporting period precludes a performance evaluation.

GLT225/038.51

ASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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 02/93

TOTAL COST

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- UNRECORDED TO COMPLETE	----- AT COMPLETE	----- AUTHORIZED ----- BUDGET	----- VARIANCE	WP/WPRR SUBMITTED
65602DS								
Design Support Activities								
PM Project Management	C	100	0	4,009	0	4,009	4,948	939
QC Quality Control	C	100	0	2,929	0	2,929	5,107	2,177
ZZ General	C	100	0	-6	0	-6		5
MG Meetings (External)	C	100	0	737	0	737	10,221	9,484
GM Groundwater Monitoring Plan	C	100	0	26,892	0	26,892	29,355	2,463
MS Miscellaneous Support	C	0	0	0	0	0	5,457	5,456
LS Landfill Cap Support	C	100	0	1,059	0	1,059	1,845	785
Activity Total		100	0	35,620	0	35,620	56,933	21,309
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	C	100	0	24,797	0	24,797	20,556	-4,241
EC Estimates - Cost	C	100	0	16,445	0	16,445	15,185	-1,260
PM Project Management	C	100	0	20,801	0	20,801	16,598	-4,202
QC Quality Control	C	100	0	8,210	0	8,210	13,513	5,302
ZZ General	C	100	0	-273	0	-273		272
GX Groundwater Extraction Design	C	100	0	15,252	0	15,252	23,907	8,654
GT Groundwater Treatment Design	C	100	0	186,874	0	186,874	112,057	-74,816
MG Meetings (External)	C	100	0	2,436	0	2,436	7,397	4,961
ML Manuals - Operations and Mai	C	100	0	5,315	0	5,315	18,865	13,549
IT Insitu Treatment Design	C	100	0	46,885	0	46,885	42,863	-4,021
SL Construction Schedule Develo	C	100	0	15,756	0	15,756	25,836	10,079
Activity Total		100	0	342,499	0	342,499	296,777	-45,723
65602LC								
LANDFILL CAP DESIGN								
ZZ General	C	100	0	-7	0	-7		7
WP EPA Workplan	C	100	0	4,841	0	4,841	6,877	2,035
QC Quality Control	C	100	0	12,964	0	12,964	14,743	1,779
PM Project Management	C	100	0	15,180	0	15,180	14,689	-491
PP Project Planning General	C	100	0	511	0	511	2,558	2,046
ED Existing Data Review	C	100	0	2,313	0	2,313	2,324	10
C1 Civil Engineering Design - G	C	100	0	17,110	0	17,110	15,866	-1,243
G1 Predesign - Geotechnical	C	100	0	8,397	0	8,397	7,133	-1,263
P1 Plans and Specifications - P	C	100	0	21,136	0	21,136	14,977	-6,159
R8 Report - 1st Draft Predesign	C	100	0	5,758	0	5,758	6,897	1,138
C3 Civil Eng - Intermediate Des	C	100	0	3,773	0	3,773	4,492	718
G3 Geotechnical Eng - Intermedi	C	100	0	6,030	0	6,030	5,158	-872
P2 Plans and Specifications - I	C	100	0	16,368	0	16,368	13,705	-2,662
C4 Civil Eng - Final Design	C	100	0	884	0	884	4,082	3,198
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	4,036	4,035
P3 Plans and Specifications - F	C	100	0	14,047	0	14,047	18,722	4,675
EC Estimates - Cost	C	100	0	2,458	0	2,458	3,074	615

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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TOTAL COST

ACTIVITY/TASK	STATUS	PCT EAC	ACTUAL		ESTIMATED		AUTHORIZED		WP/WPRR SUBMITTED
			CURRENT	TO DATE	UNRECORDED	TO COMPLETE	AT COMPLETE	BUDGET	
SL Construction Schedule Develo	C	100	0	2,016	0	0	2,016	5,076	3,060
QS QAPP/SSP/FSP	C	100	0	8,047	0	0	8,047	7,954	-92
ML Manuals - Operations and Mai	C	100	0	3,381	0	0	3,381	6,526	3,145
HS Health and Safety	C	100	0	4,149	0	0	4,149	4,005	-144
MG Meetings (External)	C	100	0	3,583	0	0	3,583	3,452	-131
MS Miscellaneous Support	C	100	0	3,270	0	0	3,270	7,783	4,513
Activity Total		100	0	156,210	0	0	156,210	174,128	17,917
65602PC									
Project Closeout									
PC Project Closeout Procedures	C	100	0	951	0	0	951	8,878	7,926
Activity Total		100	0	951	0	0	951	8,878	7,926
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	2,450	0	0	2,450	7,041	4,590
PM Project Management	C	100	0	11,277	0	0	11,277	10,213	-1,063
QC Quality Control	C	100	0	9,419	0	0	9,419	5,851	-3,568
QS QAPP/SSP/FSP	C	100	0	11,341	0	0	11,341	16,629	5,288
HS Health and Safety	C	100	0	406	0	0	406	3,625	3,218
R7 Report - Predesign	C	100	0	22,093	0	0	22,093	17,989	-4,103
H6 Haz Waste Design - Advanced	C	100	0	118,191	0	0	118,191	114,066	-4,125
H1 Haz Waste Design - Process E	C	100	0	52,612	0	0	52,612	50,635	-1,976
MG Meetings (External)	C	100	0	3,380	0	0	3,380	5,763	2,382
C1 Civil Engineering Design - G	C	100	0	10,467	0	0	10,467	9,311	-1,156
ZZ General	C	100	-43	64	0	0	64		-64
Activity Total		100	-43	241,700	0	0	241,700	241,123	-577
65602PP									
Project Planning - RD									
PM Project Management	C	100	0	17,021	0	0	17,021	17,858	837
PP Project Planning General	C	100	0	3,866	0	0	3,866	2,917	-948
QC Quality Control	C	100	0	1,611	0	0	1,611	1,879	268
WP EPA Workplan	C	100	0	9,385	0	0	9,385	10,272	886
ZZ General	C	100	-94	-2	0	0	-2		2
Activity Total		100	-94	31,880	0	0	31,880	32,926	1,045
Work Assignment Total		100	-137	808,861	0	0	808,861	810,764	1,897

MASTER PROJECT NO.: GL065602
 STATUS: REVISION REQUEST
 FUNDS ALLOCATED: 900,849

CH2M HILL ARCS-V CONTRACT NO. 68-WB-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ090
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T O T A L C O S T

ACTIVITY/TASK	PCT STATUS EAC	ACTUAL		ESTIMATED		AUTHORIZED BUDGET	VARIANCE	WP/WPRR SUBMITTED
		CURRENT	TO DATE	UNRECORDED	TO COMPLETE			

AUTH. TASKS w/INVOICED FEE	547	860,367						
AUTH. TASKS w/EST. FULL FEE	547	897,538	0	897,538	900,849	3,311		
ALL TASKS w/EST. FULL FEE		897,538	0	897,538				0

Projection: (Monthly/Cumulative)

Current Cost Invoiced:

MAR93	APR93	MAY93	JUN93	JUL93	AUG93
0	0	0	0	0	0
897,538	897,538	897,538	897,538	897,538	897,538

Direct Labor	0	Indirects	0
Equipment	0	Base Fee	-4
ODC	-137	Award Fee	688
Subcontracts	0	Travel	0
Laboratory Service	0	TOTAL	547

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	STATUS	PCT EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED		
65602DS								
Design Support Activities								
PM Project Management	C	100	0	56	0	56	64	8
QC Quality Control	C	100	0	35	0	35	64	29
MG Meetings (External)	C	100	0	9	0	9	140	131
GM Groundwater Monitoring Plan	C	100	0	379	0	379	416	37
MS Miscellaneous Support	C	0	0	0	0	0	80	80
LS Landfill Cap Support	C	100	0	15	0	15	28	13
Activity Total		100	0	494	0	494	792	298
65602FD								
Prefinal/Final Design								
DS Plans and Specifications	C	100	0	163	0	163	300	137
EC Estimates - Cost	C	100	0	243	0	243	224	-19
PM Project Management	C	100	0	234	0	234	236	2
QC Quality Control	C	100	0	100	0	100	160	60
GX Groundwater Extraction Desig	C	100	0	233	0	233	328	95
GT Groundwater Treatment Design	C	100	0	2,936	0	2,936	1,797	-1,139
MG Meetings (External)	C	100	0	34	0	34	100	66
ML Manuals - Operations and Mai	C	100	0	56	0	56	272	216
IT Insitu Treatment Design	C	100	0	708	0	708	584	-124
SL Construction Schedule Develo	C	100	0	205	0	205	382	177
Activity Total		100	0	4,912	0	4,912	4,383	-529
65602LC								
LANDFILL CAP DESIGN								
WP EPA Workplan	C	100	0	80	0	80	88	8
QC Quality Control	C	100	0	156	0	156	156	
PM Project Management	C	100	0	206	0	206	178	-28
PP Project Planning General	C	100	0	9	0	9	30	21
ED Existing Data Review	C	100	0	39	0	39	36	-3
C1 Civil Engineering Design - G	C	100	0	254	0	254	232	-22
G1 Predesign - Geotechnical	C	100	0	132	0	132	102	-30
P1 Plans and Specifications - P	C	100	0	365	0	365	210	-155
R8 Report - 1st Draft Predesign	C	100	0	99	0	99	84	-15
C3 Civil Eng - Intermediate Des	C	100	0	65	0	65	72	7
G3 Geotechnical Eng - Intermedi	C	100	0	99	0	99	72	-27
P2 Plans and Specifications - I	C	100	0	248	0	248	192	-56
C4 Civil Eng - Final Design	C	100	0	10	0	10	56	46
G4 Geotechnical Eng - Final Des	C	0	0	0	0	0	56	56
P3 Plans and Specifications - F	C	100	0	172	0	172	240	68
EC Estimates - Cost	C	100	0	48	0	48	48	
SL Construction Schedule Develo	C	100	0	32	0	32	74	42
QS QAPP/SSP/FSP	C	100	0	112	0	112	108	-4
ML Manuals - Operations and Mai	C	100	0	45	0	45	88	43

MASTER PROJECT NO.: GLO65602
 STATUS: REVISION REQUEST
 HOURS ALLOCATED: 11,356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 WORK ASSIGNMENT MASTER SUMMARY
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: . PRJ090
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P R O F E S S I O N A L H O U R S

ACTIVITY/TASK	PCT STATUS	EAC	----- ACTUAL ----- CURRENT TO DATE	----- ESTIMATED ----- TO COMPLETE AT COMPLETE	----- AUTHORIZED ----- BUDGET VARIANCE	WP/WPRR SUBMITTED			
HS Health and Safety	C	100	0	63	0	63	40	-23	
MG Meetings (External)	C	100	0	57	0	57	48	-9	
MS Miscellaneous Support	C	100	0	56	0	56	96	40	
Activity Total		100	0	2,347	0	2,347	2,306	-41	
65602PC									
Project Closeout									
PC Project Closeout Procedures	C	100	0	10	0	10	140	130	
Activity Total		100	0	10	0	10	140	130	
65602PD									
Preliminary Design									
EC Estimates - Cost	C	100	0	47	0	47	120	73	
PM Project Management	C	100	0	154	0	154	148	-6	
QC Quality Control	C	100	0	122	0	122	84	-38	
QS QAPP/SSP/FSP	C	100	0	157	0	157	240	83	
HS Health and Safety	C	100	0	6	0	6	48	42	
R7 Report - Predesign	C	100	0	311	0	311	264	-47	
H6 Haz Waste Design - Advanced	C	100	0	1,440	0	1,440	1,575	135	
H1 Haz Waste Design - Process E	C	100	0	800	0	800	638	-162	
MG Meetings (External)	C	100	0	51	0	51	80	29	
C1 Civil Engineering Design - G	C	100	0	123	0	123	60	-63	
Activity Total		100	0	3,211	0	3,211	3,257	46	
65602PP									
Project Planning - RD									
PM Project Management	C	100	0	153	0	153	272	119	
PP Project Planning General	C	100	0	50	0	50	40	-10	
QC Quality Control	C	100	0	22	0	22	24	2	
WP EPA Workplan	C	100	0	123	0	123	142	19	
Activity Total		100	0	348	0	348	478	130	
Work Assignment Total		100	0	11,322	0	11,322	11,356	34	

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR FEB 93

REPORT: ACC335
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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging, Meals & Incidentals	Allowable Lodging, Meals & Incidentals	Unallowable Lodging, Meals & Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost
TOTAL	0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302885P	-9.11
USE-302885P	-30.35
CADCOMPAQ DE	-49.17
WAN-302885P	-5.46
ODC COMPUTER TOTAL	-94.09

TOTAL -94.09

6. OVERHEAD

Base	Rate
0.00	0.4300
TOTAL	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR FEB 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PP.00:Project Planning - RD

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-94.09	0.0300	-2.82
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			-2.82

17. TOTAL INVOICE AMOUNT -96.91

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR FEB 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

1. DIRECT LABOR

Name	P Level	Hours Worked	TOTAL DOLLARS
TOTAL		0	0.00

2. TRAVEL

Name	Travel Costs	Lodging,Meals Incidentals	Allowable Lodging,Meals &Incidentals	Unallowable Lodging,Meals &Incidentals	Total	From	To	Purpose
SUBTOTAL	0.00	0.00	0.00	0.00	0.00			
MOVING/STORAGE (detail attached)				0.00				
TOTAL					0.00			

4. DIRECT MATERIALS AND EQUIPMENT

Vendor	Cost	TOTAL
TOTAL		0.00

5. OTHER DIRECT COSTS

ODC COMPUTER

LAN-302769P	-3.50	
USE-302769P	-18.64	
CADCOMPAQ DE	-18.87	
WAN-302769P	-2.10	
ODC COMPUTER TOTAL	-43.11	
TOTAL		-43.11

6. OVERHEAD

Base	Rate	TOTAL
0.00	0.4300	0.00

*** This report contains confidential business information ***

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 INVOICE DETAIL REPORT WITH ODC DETAIL FOR FEB 93

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IV. INDIVIDUAL WORK ASSIGNMENT REMEDIAL COSTS

WORK ASSIGNMENT NUMBER 38-5NL5 Onalaska Municipal Landfill, WI
 FOR PROJECT 65602PD.00:Preliminary Design

8. GENERAL & ADMINISTRATIVE EXPENSES

Base	Rate	
0.00	1.2500	0.00

10. POLLUTION LIABILITY INSURANCE - TOTAL 0.00

11. LAB SAMPLES - TOTAL 0.00

13. SPECIAL SUBCONTRACT POOL

Name of Firm	Type of Service Provided	Contract Type	Amount
SUB CASUAL LABOR			0.00
TOTAL SUBCONTRACTS			0.00

14. BASE FEE

	Base	Rate	Total
LINES 1 THROUGH 8	-43.11	0.0300	-1.29
SPECIAL SUB POOL	0.00	0.0250	0.00
TOTAL BASE FEE			-1.29

17. TOTAL INVOICE AMOUNT -44.40

MASTER PROJECT: GLO65602
 FUNDING: OERR
 STATUS: REV PENDING

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
 SCHEDULE STATUS REPORT
 BUDGETED AND AUTHORIZED TASKS
 CLIENT PROJECT NO. 38-5NL5
 Onalaska Municipal Landfill, WI

REPORT: PRJ060
 PAGE: 41
 RUN DATE: 03/11/93
 RUN TIME: 11:41
 AS OF: 02/93

MILESTONE	----- WORKPLAN -----		----- DELIVERY -----		
	ORIGINAL DATE	REVISED DATE	PLANNED = P ACTUAL = A	VARI- ANCE	NOTE
Design Support Activities					
GW Monitoring Plan	10/15/91		01/31/92 A	30+	1
Prefinal/Final Design					
Prefinal Design - GWT	11/20/91		03/31/92 A	30+	2
Prefinal Design - ISB	11/27/91		03/31/92 A	30+	3
Draft O&M Manual	10/28/91		04/09/92 A	30+	4
Final Design - ISB	01/13/92		08/07/92 A	30+	5
Final Design - GWT	01/21/92		08/07/92 A	30+	6
LANDFILL CAP DESIGN					
Dredged Sediment Evaluation Memo	12/09/91		12/09/91 A		7
60 Percent Design Submittal	01/28/92		01/28/92 A		8
90 Percent Design Submittal	03/04/92		03/25/92 A	21	9
Construction Schedule	04/13/92		04/28/92 A	15	10
Construction Cost Estimate	04/13/92		04/28/92 A	15	11
Draft O&M Manual	04/13/92		04/28/92 A	15	12
Draft & Final Submittal	04/01/92		05/01/92 A	30	13
Final Bid Document of Design Support Submittals	04/24/92		06/15/92 A	30+	14
Preliminary Design					
Bioremediation QAPP	07/07/91		08/14/91 A	30+	15
Pre-design Report - GWT	08/30/91		10/18/91 A	30+	16
Pre-design Report - ISB	08/23/91		01/31/92 A	30+	17
Project Planning - RD					
Work Assignment Received by CH2M HILL	03/04/91		03/04/91 A		18
Submit Final Work Plan	04/17/91		04/17/91 A		19
Submit Revised Final Work Plan	05/23/91		05/23/91 A		20
EPA Approval of Final Work Plan	05/25/91		06/27/91 A	30+	21

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NOTES:

MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: \$900.849
AUTHORIZED BUDGET: \$900.849

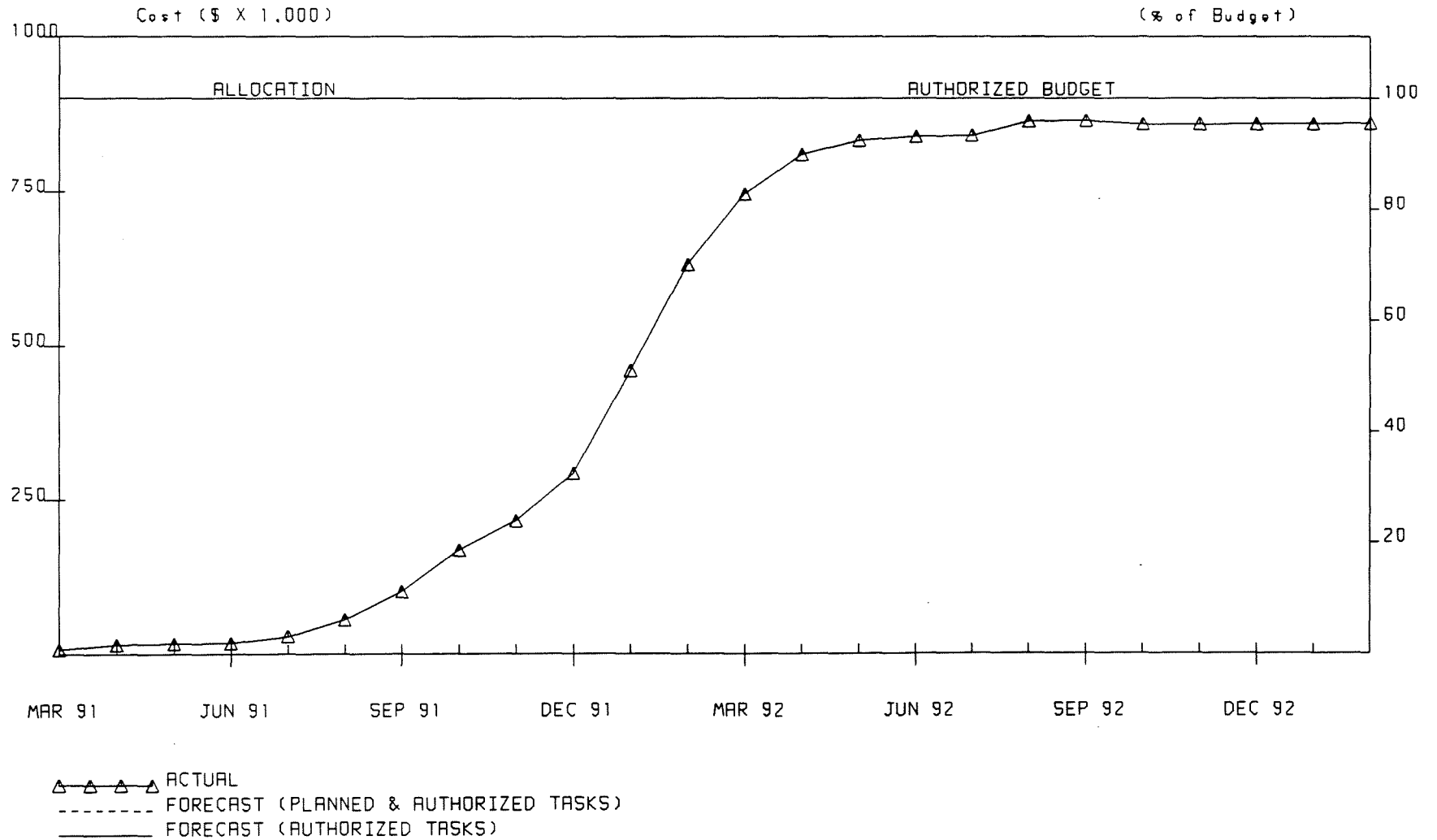
CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NL5

REPORT: PRJ091
RUN DATE: 03/11/93
RUN TIME: 02:22 PM

ONALASKA MUNICIPAL LANDFILL, WI

TOTAL COSTS (W/FEES)

February 1993



MASTER PROJECT: GLO65602
STATUS: REVISION REQUEST
ALLOCATION: 11.356
AUTHORIZED BUDGET: 11.356

CH2M HILL ARCS-V CONTRACT NO. 68-W8-0040
CUMULATIVE SUMMARY
38-5NLS

REPORT: PRJ091
RUN DATE: 03/11/93
RUN TIME: 02:22 PM

ONALASKA MUNICIPAL LANDFILL, WI PROFESSIONAL HOURS

February 1993

