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October 7, 2008

Miriam C. Siegfried, P.E.
 Technical Support Group
 Water Supply Group
 910 Dublin Road
 Columbus, OH 43215

Re: Dublin Road Water Plant
 Raw Water Intake Improvements
 Additional Work Items

Dear Ms. Siegfried:

As allowed by Section V - Changes of the agreement between the City of Columbus and Malcolm Pirnie, we are requesting an additional \$162,000 (\$83,600 for Pirnie and \$78,400 for BBC&M, our subconsultant). This fee is to compensate our two firms for additional professional services that were both necessary and beyond our control.

As indicated in our June 4th letter, the majority of the effort by Malcolm Pirnie has been the result of RFIs from Kokosing and significantly more effort in reviewing submittals than was planned for in our original budget. In addition, Malcolm Pirnie had significant effort in the design to modify the leaf chute and in addressing Kokosing's dewatering issues during construction.

Below is a table summarizing our budgeted effort vs. actual effort in the tasks that have had significantly more effort than anticipated.

Table 1
Summary of Additional Effort

Task	Budgeted Hours	Budgeted Dollars	Actual Hours	Actual Dollars	Additional Hours	Additional Dollars
Shop Drawing Review	308	\$31,300	378	\$42,600	70	\$11,300
Change Orders/RFIs	82	\$10,500	641	\$78,500	559	\$68,000
Dam Leak Issues	0	\$0	50	\$4300	50	\$4300
Total	390	\$41,800	1069	\$125,400	679	\$83,600

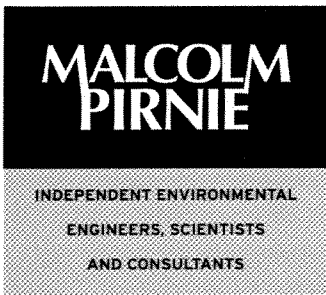
RFIs

In reviewing the 97 RFIs that have been submitted along with several other issues that have occurred during construction, we have identified twenty six items that we believe to be beyond the original scope of the project and resulted in significant additional effort by Malcolm Pirnie. The items are listed below, along with the hours and cost associated with each.

Table 2
Summary of RFIs

Description	RFI/RFP No.	Hours	Cost
Sheet Pile Change	RFI 1	8	\$1,300
Temporary Sludge Line	RFI 2	16	\$2,600
Sidewalk slope	RFI 21	14	\$1,800
Retaining wall	RFI 22	4	\$500
Trees and logs in front of intake	RFI 33	12	\$1,800
Relocation of sample pump	RFI 35	16	\$2,000
Re-route storm to Intake #1	RFI 39	20	\$2,800
Grading in front of Intake #1	RFI 40	16	\$2,000
Spall repair of sea wall	RFI 41	4	\$500
Handrail for retaining wall	RFI 44	8	\$1,000
Shifting of wall	RFI 55	12	\$1,500
Retaining wall subgrade	RFI 58	4	\$500
Raising of keyway	RFI 59	4	\$500
Footer elevation	RFI 60	2	\$300
Raising footer to bottom of 30" RWL	RFI 62	8	\$1,000
Thrust Block replacement	RFI 73	4	\$500
Revised Fence Layout	RFI 76	2	\$300
Location of light poles - Ret. Wall	RFI 86	8	\$1,000
Elev. On Sloped Wall	RFI 89	2	\$300
Gripper Rake Support Piers	RFP 23	12	\$1,200
South Abutment Repairs	RFP 25	44	\$5,400
North Abutment & Dam		24	\$2,800
Dewatering		60	\$7,600
Leaf Chute Extension		100	\$14,600*
Evaluation of Materials & Costs		4	\$500
ROW Access Permit		4	\$600
	Total	412	\$54,900

* Includes \$1100 for additional surveying to confirm leaf chute extension layout



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One group of the above listed items is as a result of changed conditions during construction. These included the gripper rake support piers, the south abutment repairs, the north abutment and dam, and the dewatering.

Another group of items on the list were the result of questions from Kokosing related to constructability issues. In general, these types of questions are highly dependent on the individual contractor's experiences and personnel. It is therefore very difficult to budget our level of effort accurately. We believe that the project could have been constructed without addressing these RFIs. These items included the temporary sludge line, trees and logs in front of intake, re-route storm to Intake #1, and grading in front of Intake #1.

Finally, there was a group of items that were the result of changes requested by the City during construction. The most significant of these was the leaf chute extension which was the result of questions raised by the Department of Regulatory Compliance. The other items requested by the City were the relocation of the sample pump and the handrail for the retaining wall.

These three groups of items requiring significant additional effort represent 412 hours of the additional 559 hours shown in Table 1 for the change orders and RFIs. We believe the additional effort expended in addressing the contractor's RFIs required effort beyond what was originally anticipated and exceeded the hours budgeted for this project. While individually these RFIs did not require significant effort on the part of Malcolm Pirnie, they did result in the remainder of the hours and budget not specifically represented in Table 2.

Shop Drawings

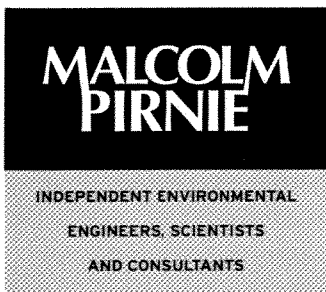
Most of the additional effort associated with shop drawing review was the result of the dam construction sequencing (4 reviews) and the gripper rake (5 reviews). Review of the dam construction sequencing included the review of the staging and layout of the temporary sludge line.

In our June 4th letter, we also anticipated that our resident inspection services would go over budget for the project. Currently, it appears we can complete the resident inspection for the 800 hours originally budgeted. Therefore, based on the table above our additional fee associated with the increased effort is \$83,600. This is slightly higher than the original request of \$80,000 since most of the effort associated with the dewatering issues occurred after the June 4th letter.

BBC&M

BBC&M has also had significant effort that was outside of their original scope. The major issues are as follows:

- Pile driving vibration issues including hiring GRL for vibration monitoring of the structures.
- Review of several temporary sludge line submittals proposed by Kokosing.
- Review of backfill and drainage issues associated with the retaining wall.



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- Issues relating to the redesign of the south abutment.

The effort related to the temporary sludge line and the backfill and drainage issues were not tracked separately by BBC&M, however the cost of the vibration monitoring and the redesign of the south abutment were. These resulted in additional costs of approximately \$6200 and \$8400 respectively. The vibration monitoring was included in the costs in our June 4th letter; however, the redesign of the south abutment occurred later and therefore is in addition to the \$70,000 additional fee requested for BBC&M in that letter.

As pointed out in our previous letter, BBC&M's original scope and budget was based on a 6 month dam construction schedule. This budget also assumed that for the most part, BBC&M would be able to perform testing for the intake structure concurrently with the on-site inspection of the dam. In reality, there has there been virtually no overlap between assisting with the testing for the intake structure and the on-site inspection of the dam. This has resulted in approximately 5 months of additional on-site inspection services by BBC&M. Their original budget included 676 hours of field work. Based on completing the project on Kokosing's latest construction schedule, we estimate a total of 1500 hours of on-site inspection services, resulting in an additional cost of \$63,800.

The cost of the additional on-site inspection services; coupled with the vibration monitoring and the redesign of the south abutment, results in a total additional cost for BBC&M's services of \$78,400.

We trust this letter provides sufficient to explain the reason for our request for additional compensation on this project. We are available to meet to discuss any of the details outlined in this letter at your earliest convenience. We will continue to work as the Division's representative to ensure that this is a successful project for the City.

Very truly yours,

MALCOLM PIRNIE, INC.

A handwritten signature in black ink that reads "Bret M Casey".

Bret M. Casey, P.E.
Associate

bmc

0228-777