OLSSON®
ASSOCIATES

August 30, 2013

Ms. Lisa Johnson
Greatrock North Water & Sanitation District
141 Union Blvd., Suite 150
Lakewood, CO 80228

Re: Greatrock North WSD Operations Engineering Support
Olsson Project No. 013-0056

Dear Lisa:

Andrea Bollinger has informed me that you have expressed concerns about invoice no. 191479, dated June 13, 2013 for $6,709.56. Please find attached a detailed account of the time and expense for this invoice. I understand you were specifically concerned with the time and expense associated with the evaluation of the Rocking Horse Farm (RHF) pump station.

I believe this pump station has been running inefficiently for some time, and that the District has had to replace pumps on an all-too frequent basis; without a clear understanding as to why.

Andrea brought Josh Cook, an Olsson engineer with an extraordinary high level of experience and expertise in pump station design and operation, to the RHF pump station and explained the problems. Josh inspected the pump station, was able to deduce the pump was experiencing cavitation because of the piping arrangement. He prepared a report about his findings, and it is our understanding his recommendations are being implemented by the District, which will result in reduced operation costs.

In summary, Olsson's services were of value to the District and the amount of the invoice is reasonable.

Sincerely,

Mike

Michael J. Yost, PE
Vice President

4690 Table Mountain Drive, Suite 200
Golden, CO 80403
TEL 303.237.2072
FAX 303.237.2659
www.olssonassociates.com

Invoice

OLSSON ASSOCIATES

JUN 29 2013

1111 Lincoln Mall
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

June 13, 2013
Invoice No: 191479

Dist. Name

G/L Code	Amount
7824	6709.56
Dist. Mgr. Initials	

Greatrock North Water & Sanitation District
141 Union Blvd Ste 150
Lakewood, CO 80228

OA Project No. 013-0056 Greatrock North WSD Operations Engineering Support

Professional services rendered through June 8, 2013 for work completed in accordance with Agreement. Services this period include: researching RO operations manual, LFH blending with RO concentrate, evaporation pond assessment costs and memo, RHF pumping issues.

Phase 100 Operations Engineering Support

Professional Personnel

	Hours	Rate	Amount	
Senior Project Engineer				
Cook, Joshua	26.50	135.00	3,577.50	
Project Engineer				
Stahl, Mary	1.25	120.00	150.00	
Assistant Engineer				
Bollinger, Andrea	33.50	85.00	2,847.50	
Totals	61.25		6,575.00	
Total Labor				**6,575.00**

Reimbursable Expenses

Meals			38.38	
Personal Vehicle Mileage			40.68	
Total Reimbursables			**79.06**	**79.06**

Internal Unit Billing

Field Vehicle		74.0 Miles @ 0.75	55.50	
Total Internal Units			**55.50**	**55.50**

Billing Limits	**Current**	**Prior**	**To-Date**
Total Billings	6,709.56	3,319.00	10,028.56

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Project	013-0056	Greatrock North WSD Operations Engineeri	Invoice	191479
Limit			15,300.00	
Balance Remaining			5,271.44	
			Total this Phase	**$6,709.56**
			AMOUNT DUE THIS INVOICE	**$6,709.56**

Outstanding Invoices

Number	**Date**	**Balance**
191213	5/23/2013	407.50
Total		**407.50**

Authorized By: Andrea Bollinger

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

OLSSON ASSOCIATES

July 11, 2013

Mrs. Lisa Johnson
SDMS
141 Union Blvd., Ste. 150
Lakewood, CO 80228

RE: Greatrock North Water and Sanitation District (District)
Detailed Report for Invoice # 191479
Olsson Project Number: 013-0056

Dear Mrs. Johnson,

Per your request, please find attached a detailed report for Invoice # 191479. The report our finance system generates can be confusing if you are not used to the format it generates. As a result, I have added dividers between the tasks to help differentiate the categories so it is easier for you to read. Since the majority of the time on the invoice relates to the Rocking Horse Farms (RHF) Booster Station report, Olsson presented to you on June 10, 2013, I have included a copy of the report for your reference.

If you should have any questions, please do not hesitate to call or email.

Sincerely,

Andrea Bollinger

Andrea Bollinger, PE
Project Manager

David P. Krickbaum

David P. Krickbaum, PE
Team Leader

Attachments:
Detailed Report for Invoice #191479
RHF- Booster Station: Pressure Issue Report, dated June 10, 2013

CC: File F:\Projects\013-0055 GNWSD Admin\Communications\Corsp\LETTER_Lisa Johnson_2013-07-11.doc

4690 Table Mountain Drive, Suite 200
Golden, CO 80403
TEL 303.237.2072
FAX 303.237.2659
www.olssonassociates.com

Project Detail

Thursday, July 11, 2013
1:51:54 PM

Olsson Associates, Inc. Transactions for 5/5/2013 through 6/8/2013

Show Unposted

	Total Hours	Billing
Project Number: 013-0056 Greatrock North WSD Operations Engineeri		
Phase Number: 100 Operations Engineering Support		
Task Number: 100001 DNV PBIN Operations Engineering Support		
Labor		
010 Additional Services		
F 03087 Bollinger, Andrea 5/13/2013 Researching RO operation manual	.50	42.50
F 03087 Bollinger, Andrea 5/14/2013 compiling concentrate options, LFH well/RO operation	2.50	212.50
F 03087 Bollinger, Andrea 5/29/2013 RHF- low pressure research on cause, reviewing SCADA	3.25	276.25
F 03087 Bollinger, Andrea 5/30/2013 RHF- low pressure research on cause, reviewing SCADA	2.00	170.00
Total for 03087	8.25	701.25
Total for Additional Services	8.25	701.25
060 Design - Computer		
F 03350 Cook, Joshua 5/29/2013 RH - pump questions.	1.50	202.50
F 03350 Cook, Joshua 5/30/2013 RHF - pump issues	1.50	202.50
Total for 03350	3.00	405.00
Total for Design - Computer	3.00	405.00
080 Opinions of Cost		
F 03087 Bollinger, Andrea 5/20/2013 Evap Pond Rehab - action plan (costs and memo)	3.00	255.00
F 03087 Bollinger, Andrea 5/21/2013 Evap Pond Rehab - action plan (costs and memo)	1.25	106.25
F 03087 Bollinger, Andrea 5/22/2013 Evap Pond Rehab - action plan (costs and memo), LFH and RO blending	2.00	170.00
F 03087 Bollinger, Andrea 5/23/2013 Evap Pond Rehab - action plan (costs and memo)	1.25	106.25
F 03087 Bollinger, Andrea 5/24/2013 Evap Pond Rehab - action plan (costs and memo)	4.00	340.00
Total for 03087	11.50	977.50
Total for Opinions of Cost	11.50	977.50
135 Studies/Analysis		
F 03144 Stahl, Mary 5/23/2013 develop tasks for concentrate/LFH blending for augmentation	.50	60.00
Total for 03144	.50	60.00
Total for Studies/Analysis	.50	60.00
Total for Labor	**23.25**	**2,143.75**
Total for Labor	**23.25**	**2,143.75**
Expenses		
Reimbursable Expenses		
5103 Meals		
F EX 000000085547 6/5/2013 / Bollinger, Andrea		14.35
F EX 000000085570 6/4/2013 / Cook, Joshua		24.03
Total for 5103		38.38
5125 Personal Vehicle Mileage		

Show Unposted

	Total Hours	Billing
F EX 000000085570 6/4/2013 / Cook, Joshua		40.68
Total for 5125		40.68
Total for Reimbursable Expenses		**79.06**
Total for Expenses		**79.06**
Total for 100001	**23.25**	**2,222.81**
Task Number: 100002 DNV PBIN Pump Pressure Issues		
Labor		
010 Additional Services		
F 03087 Bollinger, Andrea 6/3/2013 RHF low pressure- schedule vendor, researching pump curves	.50	42.50
F 03087 Bollinger, Andrea 6/5/2013 RHF- low pressure issues, site visit	8.75	743.75
F 03087 Bollinger, Andrea 6/6/2013 RHF pressure issues	2.75	233.75
F 03087 Bollinger, Andrea 6/7/2013 reviewing letter	1.75	148.75
Total for 03087	13.75	1,168.75
Total for Additional Services	13.75	1,168.75
056 Design - Non Computer		
F 03144 Stahl, Mary 6/7/2013 brainstorm with josh, discuss modeling results	.50	60.00
Total for 03144	.50	60.00
Total for Design - Non Computer	.50	60.00
060 Design - Computer		
F 03350 Cook, Joshua 6/3/2013 pump review	1.00	135.00
F 03350 Cook, Joshua 6/4/2013 Board Meeting for Great Rock	4.00	540.00
F 03350 Cook, Joshua 6/5/2013 RH Pump Analysis	6.00	810.00
F 03350 Cook, Joshua 6/6/2013 PDR	9.50	1,282.50
F 03350 Cook, Joshua 6/7/2013 RH Pump Analysis	3.00	405.00
Total for 03350	23.50	3,172.50
Total for Design - Computer	23.50	3,172.50
115 Records Review		
* F 03144 Stahl, Mary 6/3/2013 research with cdphe regulatory issues mixing with well water	.25	30.00
Total for 03144	.25	30.00
Total for Records Review	.25	30.00
Total for Labor	**38.00**	**4,431.25**
Total for Labor	**38.00**	**4,431.25**
Expenses		
Reimbursable Expenses		
5104 Auto		
F UN 000000000646 6/4/2013 Field Vehicle / A.Bollinger/Greatrock N. IU060813 AUTMLS / 74.0 Miles @ 0.30 74.0 Miles @ 0.75		55.50
Total for 5104		55.50
Total for Reimbursable Expenses		**55.50**
Total for Expenses		**55.50**
Total for 100002	**38.00**	**4,486.75**
Total for 100	**61.25**	**6,709.56**
Total for 013-0056	**61.25**	**6,709.56**

Final Totals	**61.25**	**6,709.56**