Invoce

Moffatt&Nchol

P.O.Box22648

LongBeach,CA90801-5648
Phone:(562)590-6500

obrt Law
D Maximis Inc.
186 Cntr Strt, Suit 290
Clinton, NJ 08809

May 18, 2016
Invoic No: 718241

Projct 6664-04 Lowr Passaic ivr/Nwark Bay Modling
ProfessonalServcesfromMarch27,2016toAprl30,20 16

LPR/NBModelng Program NBModeloftheLPR/NB

Task 01 Coordination and Mtings
Coordination and Mtings
ProfessonalPersonnel

	Hours	Rate	Amount	
Snior Enginr/Scintist				
Canizars, afal	41.00	209.00	8,569.00	
Totals	41.00		8,569.00	
TotalLabor				**8,569.00**
		TotalthsTask		**$8,569.00**

Task 03 Systm Undrstanding
Systm Undrstanding
ProfessonalPersonnel

	Hours	Rate	Amount	
Enginr/Scintist II				
Mathw, ooni	20.00	172.00	3,440.00	
Totals	20.00		3,440.00	
TotalLabor				**3,440.00**
		TotalthsTask		**$3,440.00**

Task 05 LP/NB Sdimnt Transport Modl
LP/NB Sdimnt Transport Modl
ProfessonalPersonnel

	Hours	Rate	Amount	
Enginr/Scintist II				
Mathw, ooni	36.00	172.00	6,192.00	
Staff Enginr/Scintist				
Manian, Dinsh	3.00	119.00	357.00	
Totals	39.00		6,549.00	
TotalLabor				**6,549.00**
		TotalthsTask		**$6,549.00**

Task 06 NB HD and ST Modl Calibration port
NB HD and ST Modl Calibration port
ProfessonalPersonnel

	Hours	Rate	Amount	
Enginr/Scintist II				
Mathw, ooni	60.00	172.00	10,320.00	
Staff Enginr/Scintist				
Manian, Dinsh	54.00	119.00	6,426.00	
Totals	114.00		16,746.00	
TotalLabor				**16,746.00**
		TotalthsTask		**$16,746.00**
		TotalthsPhase		**$35,304.00**
		TOTALTHISINVOICE		**$35,304.00**

ACH Payment Remittance Information
Bank Account Name: Moffatt & Nichol
Bank Number: 4159349729
Routing: 121000248

Billing Bacup

Wednesday, May 18, 2016

3:52:52 PM

Moffatt & Nichol

Invoice 718241 Dated 5/18/2016

Project 6664-04 Lower Passaic River/Newar Bay Modeling

LPR/NBModeling Program NBModeloftheLPR/NB

as 01 Coordination and Meetings
Coordination and Meetings

ProfessionalPersonnel

			Hours	Rate	Amount	
Senior Engineer/Scientist						
1548	Canizares, Rafael	3/28/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	3/29/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	3/30/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	3/31/2016	4.00	209.00	836.00	
1548	Canizares, Rafael	4/1/2016	4.00	209.00	836.00	
1548	Canizares, Rafael	4/4/2016	7.00	209.00	1,463.00	
1548	Canizares, Rafael	4/5/2016	7.00	209.00	1,463.00	
1548	Canizares, Rafael	4/7/2016	1.00	209.00	209.00	
1548	Canizares, Rafael	4/8/2016	1.00	209.00	209.00	
1548	Canizares, Rafael	4/11/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	4/12/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	4/14/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	4/15/2016	2.00	209.00	418.00	
1548	Canizares, Rafael	4/22/2016	3.00	209.00	627.00	
otals			41.00		8,569.00	
TotalLabor						**8,569.00**
				TotalthisTas		**$8,569.00**

as 03 System Understanding
System Understanding

ProfessionalPersonnel

			Hours	Rate	Amount	
Engineer/Scientist II						
2219	Mathew, Rooni	3/28/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	3/29/2016	4.00	172.00	688.00	
2219	Mathew, Rooni	3/30/2016	8.00	172.00	1,376.00	
otals			20.00		3,440.00	
TotalLabor						**3,440.00**
				TotalthisTas		**$3,440.00**

as 05 LPR/NB Sediment ransport Model
LPR/NB Sediment ransport Model

FOIA_001406_0000394

Project	6664-04	Lower Passaic River/Newar Bay Modeling			Invoice	718241

ProfessionalPersonnel

			Hours	Rate	Amount	
Engineer/Scientist II						
2219	Mathew, Rooni	4/5/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/6/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/7/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/8/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/21/2016	4.00	172.00	688.00	
Staff Engineer/Scientist						
2301	Manian, Dinesh	4/6/2016	2.00	119.00	238.00	
2301	Manian, Dinesh	4/7/2016	1.00	119.00	119.00	
otals			39.00		6,549.00	
TotalLabor						**6,549.00**
				TotalthisTas		**$6,549.00**

as 06 NB HD and S Model Calibration Report

NB HD and S Model Calibration Report

ProfessionalPersonnel

			Hours	Rate	Amount	
Engineer/Scientist II						
2219	Mathew, Rooni	3/31/2016	4.00	172.00	688.00	
2219	Mathew, Rooni	4/1/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/4/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/13/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/14/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/15/2016	8.00	172.00	1,376.00	
2219	Mathew, Rooni	4/22/2016	4.00	172.00	688.00	
2219	Mathew, Rooni	4/25/2016	6.00	172.00	1,032.00	
2219	Mathew, Rooni	4/26/2016	3.00	172.00	516.00	
2219	Mathew, Rooni	4/29/2016	3.00	172.00	516.00	
Staff Engineer/Scientist						
2301	Manian, Dinesh	3/28/2016	2.00	119.00	238.00	
2301	Manian, Dinesh	3/29/2016	6.00	119.00	714.00	
2301	Manian, Dinesh	3/31/2016	6.00	119.00	714.00	
2301	Manian, Dinesh	4/1/2016	8.00	119.00	952.00	
2301	Manian, Dinesh	4/4/2016	6.00	119.00	714.00	
2301	Manian, Dinesh	4/5/2016	6.00	119.00	714.00	
2301	Manian, Dinesh	4/7/2016	4.00	119.00	476.00	
2301	Manian, Dinesh	4/13/2016	6.00	119.00	714.00	
2301	Manian, Dinesh	4/15/2016	7.00	119.00	833.00	
2301	Manian, Dinesh	4/19/2016	3.00	119.00	357.00	
otals			114.00		16,746.00	
TotalLabor						**16,746.00**
				TotalthisTas		**$16,746.00**
				TotalthisPhase		**$35,304.00**

TotalthisProject	**$35,304.00**
TotalthisReport	**$35,304.00**

MOFFATT & NICHOL

529 5th Aveue
1 th floor
New York, NY 10017

(212) 768-75
Fax (212) 768-7936

Detailed Desriptin f wrk dne by M&N persnnel ass iated t the LPR/NB Mdeling Prgram HD/ST Newark Bay Mdel - Spe f Wrk f r the perid 03/28/2016 t 04/30/2016 M&N Prjet N. 6664

Hydrodynamcs rncpal Investgator - Rafael Cañz ares.

Task 1 – roject Management	• Internal crdinatin ith Deltares and M&N, tasks t be cmpleted • Prepare and cmplete February Invice • Revie NB mdel reprt – revie f Hydrdynamic mde l calibratin and appendices. • Cmplete additinal task invice • Revie ave reprt • Prepare and attend cnference call ith Han Winter erp t crdinate and cmplete the mdel reprt

Roon Mathew.

Task 3 – System Understandng	• Prcess final calibratin runs, develp ST reprt a ppendices • Prcess final calibratin runs, revie runs and dev elp 9495-1213 runs, develp ST reprt appendices
Task 5 – LR/NB Sedment Transport Model	• Develp ST reprt, develp figures fr reprt • Develp presentatin t discuss ith Han Wintererp
Task 6 – NB HD and ST Model Calbraton Report	• Launch 9495-1213 runs, develp ST reprt appendices • Develp ST reprt appendices • Develp ST appendix • Develp ST mdel reprt appendix • Revie/edit HD reprt and ave mdel sectin • Discuss NB mdel ith Han Wintererp, finalize calib ratin • Revie/edit NB ave mdeling text/figures • Revie/edit NB hydr mdel rite-up

Dnesh Manan

Task 3 – System Understandng	• Preparing ST mdel-data cmparisn figures
Task 6 – NB HD and ST Model Calbraton Report	• System understanding reprt figures • HD mdeling reprt – figures

	• Cmpleting HD mdeling reprt; Wave data analysis • HD mdeling and aves Reprt • HD mdeling and aves Reprt; additinal CWCM mdel - data cmparisns • HD mdel reprt figures • HD mdeling: Final calibratin plts; Updating fr mdel cell-centered velcities; Accunting fr anmalies in Spring PWCM data • Additinal ave data prcessing fr Wave mdeling re prt; Final updates • Appendix f figures shing mdel-data cmparisns fr all calibratin and validatin perids