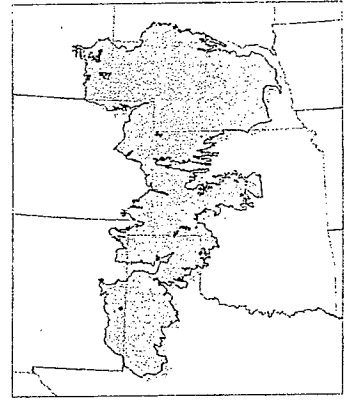


High Plains Hydrology LLC  
7956 S. Shawnee St.  
Aurora, CO 80016-7206  
(303) 693-0299



August 1, 2007

Steve Gaul  
Supervisor, Planning and Assistance Division  
Nebraska Department of Natural Resources  
P.O. Box 94676  
Lincoln, NE 68509-4676

RECEIVED

AUG 03 2007

DEPARTMENT OF  
NATURAL RESOURCES

Dear Steve:

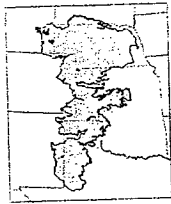
Enclosed please find my monthly report for July, an invoice for the time and expenses for work with the Department of Natural Resource, and a spreadsheet supporting the time. Note that I gave a credit for travel expenses in June that I should not have charged. If you have any questions, please give me a call. Thank you.

Sincerely,

Richard R. Luckey  
Senior Hydrologist

# High Plains Hydrology LLC

7956 S. Shawnee St.  
 Aurora, CO 80016-7206  
 Phone (303) 693-0299 Cell (303) 916-5973



# INVOICE

INVOICE #128  
 DATE: AUGUST 1, 2007

**TO:**  
 Nebraska Department of Natural Resources  
 301 Centennial Mall South  
 P.O. Box 94676  
 Lincoln, NE 68509-4676

**FOR:**  
 Services of Senior Groundwater Modeler

LABOR DESCRIPTION	HOURS	RATE	AMOUNT
June, 2007, Task 1-1 (see attached spreadsheet)	2.25	\$ 70.00	\$ 157.50
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
<b>TOTAL this Period</b>			\$ 157.50
<b>Previous balance</b>			\$ 3,949.84
<b>Payments received</b>			- \$ 3,943.04
Credit for disallowed travel expenses on June travel			- \$ 6.80
<b>TOTAL</b>			\$ 150.70

Make all checks payable to **High Plains Hydrology LLC**  
 Total due in 30 days. Overdue accounts subject to a service charge of 1% per month.

**Thank you for your business!**

Date	Start	Stop	Start	Stop	Start	Stop	Hours	Task 1	Task 2	Task 3	Task 4	DNR 1-1	DNR 1-2	Notes
07/02/2007	3:00 PM	5:00 PM					2.00	0.50			1.00	0.50		Monthly reports.
07/03/2007	3:30 PM	5:00 PM				1.50					1.50			NDbyNRD files to
07/06/2007	9:45 AM	12:15 PM	12:45 PM	5:00 PM		6.75	0.25			6.50				New modeler tra
07/09/2007	7:00 AM	10:30 AM	3:15 PM	5:15 PM		5.50	4.50			1.00				OA2FA question
07/10/2007	9:00 AM	12:30 PM	1:00 PM	5:30 PM		8.00	8.00							WMU 1950-98 n
07/11/2007	7:00 AM	12:00 PM	1:15 PM	4:15 PM		8.00	6.00							before 1940. GM
07/12/2007	8:00 AM	12:00 PM	1:00 PM	5:00 PM		8.00	5.00			3.00	2.00			New modeler tra
07/13/2007	8:15 AM	12:30 PM	1:00 PM	5:30 PM		8.75	4.00				4.75			Sponsors meetin
07/16/2007	6:30 AM	11:45 AM				5.25	0.75			2.50	2.00			NDbyNRD. Gettin
07/17/2007	6:30 AM	12:45 PM	1:30 PM	5:30 PM		10.25	3.00							Scottsbluff.
07/18/2007	8:00 AM	12:30 PM	1:30 PM	5:00 PM		8.00	8.00				7.25			New modelers to
07/19/2007	8:00 AM	12:30 PM	1:00 PM	4:30 PM		8.00	8.00							New modelers to
07/20/2007	8:00 AM	11:45 AM	12:15 PM	4:30 PM		8.00	8.00							hours of travel in
07/23/2007	7:15 AM	12:15 PM	1:15 PM	4:30 PM		8.25					8.25			New modelers w
07/24/2007	8:00 AM	11:30 AM	1:15 PM	4:30 PM		6.75					6.00	0.75		New modelers w
07/25/2007	7:30 AM	12:00 PM	3:45 PM	5:15 PM		6.00	0.50				5.50			Building rechargi
07/26/2007	9:00 AM	12:00 PM				3.00					3.00			Looking for latest
07/27/2007	12:15 PM	6:15 PM				6.00					6.00			as recharge plus
07/28/2007	9:00 AM	10:00 AM				1.00								Looking for Cens
07/30/2007	7:30 AM	12:15 PM	1:00 PM	2:00 PM		5.75								NPNRD only anc
07/31/2007														Build spreadshet
														PM.
														Computer proble
														that Lake McCor
														Saturday, but wa
														backed up hard t
														Checking only x
														harddrive after 2:
														Spent all day tryi
							124.75	66.50		13.00	53.00	2.25		July total and t

Status Report

High Plains Hydrology LLC, Aurora, CO

**Groundwater Modeling Support for the Nebraska Department of Natural Resources**

**Status Report, July 31, 2007**

- Objectives:** 1. Provide modeling support as requested; and
2. Compare COHYST and RRCA models in area of overlap, with emphasis on the groundwater mound area.

**Status:**

Dick did almost no work for the Department in July. He needed to spend his time looking at new depletions after 1997 by Natural Resources Districts. He spent a minor amount of time helping Doug Hallum in doing the new depletions analysis with changing recharge due to changing land use.

**Plans for next month:**

Dick will continue to work on new depletions by Natural Resources Districts for COHYST in August. If there is available time, he may work on comparison of COHYST and Republican models.

Dick will do other tasks as requested by DNR.

Date	Start	Stop	Start	Stop	Start	Stop	Hours	Task 1	Task 2	Task 3	Task 4	DNR 1-1	DNR 1-2	Notes
07/02/2007	3:00 PM	5:00 PM					2.00	0.50			1.00	0.50		Monthly reports. Starting to build new depletions by NRD (NDbvNRD) files.
07/03/2007	3:30 PM	5:00 PM					1.50				1.50			NDbvNRD files for western model unit.
07/05/2007	9:45 AM	12:15 PM	12:45 PM	5:00 PM			6.75	0.25		6.50				New modeler training. OAZFA PowerPoint for Sponsors meeting.
07/09/2007	7:00 AM	10:30 AM	3:15 PM	5:15 PM			5.50	4.50		1.00				OAZFA questions from Kraus. New modeler training assignment number 6.
07/10/2007	9:00 AM	12:30 PM	1:00 PM	5:30 PM			8.00	8.00						WMU 1950-98 models to new modelers. New modeler training assignment 6. Chasing down N. Platte River error. Lake McC conformance not zero before 1940. GMS repeating wrong river flows.
07/11/2007	7:00 AM	12:00 PM	1:15 PM	4:15 PM			8.00	6.00			2.00			New modeler training. ET assignment. PowerPoint for new modeler workshop in Scottsbluff. Travel (only charged 1 hour for travel time).
07/12/2007	9:00 AM	12:00 PM	1:00 PM	5:00 PM			8.00	5.00		3.00				Sponsors meeting. Presentation on OAZFA final report. Technical Committee meeting. Travel (only charged 1 hour for travel time).
07/13/2007	8:15 AM	12:30 PM	1:00 PM	5:30 PM			6.75	4.00			4.75			NDbvNRD. Getting gained and lost irrigated land into GMS. New WMU 1950-98 CD for Julie G. Planning tour for new modelers workshop in Scottsbluff.
07/16/2007	6:30 AM	11:45 AM					5.25	0.75		2.50	2.00			New modelers tour planning for Scottsbluff. NDbvNRD acres gained/lost into GMS. OAZFA documentation update. Sent to Duane to proof.
07/17/2007	6:30 AM	12:45 PM	1:30 PM	5:30 PM			10.25	3.00			7.25			New modelers tour notes. Distributed these. NDbvNRD getting stuff organized. Travel to Scottsbluff for new modelers workshop (charged only 2 hours of travel time).
07/18/2007	9:00 AM	12:30 PM	1:30 PM	5:00 PM			8.00	8.00						New modelers tour and training in Scottsbluff area. Adjusted ending time to limit day to 8 hours.
07/19/2007	9:00 AM	12:30 PM	1:00 PM	4:30 PM			8.00	8.00						New modelers work in Scottsbluff. Travel back to Aurora.
07/20/2007	9:00 AM	11:45 AM	12:15 PM	4:30 PM			8.00	8.00			8.25			Building recharge data sets for NDbvNRD analysis.
07/23/2007	7:15 AM	12:15 PM	1:15 PM	4:30 PM			8.25							Looking for latest CropSim calibration. Computing 1995-97 recharge. Helping Doug. Building net pumpage data sets. Summing baseline pumpage as recharge plus pumpage.
07/24/2007	8:00 AM	11:30 AM	1:45 PM	4:30 PM			6.75				6.00	0.75		Looking for Census of Agriculture file for Rich. Checked WMU recharge files. Made composite recharge files. Made xxNRD only pumpage files. Ran NPNRD only and SPNRD only. Ran TPNRD only and OtherNRD only.
07/25/2007	7:30 AM	12:00 PM	3:45 PM	5:15 PM			6.00	0.50			5.50			Built spreadsheet for NDbvNRD. All gained/lost and no gained/lost simulations are bad. Computer problems all afternoon, so no time charged in PM.
07/28/2007	9:00 AM	12:00 PM					3.00				3.00			Computer problems all morning, so no time charged. Looking for problems with ND everywhere. Probably bad Kh array. Just rebuilt and okay. Found that Lake McCnoughy missing in simulations. Rebuilt and reran all and note. Rebuilt and reran NPNRD, SPNRD, and TPNRD.
07/27/2007	12:15 PM	6:15 PM					6.00				6.00			Saturday, but wanted to complete WMU while I was on a roll. Rebuilt and reran non-COHHYST NRDs. Processed and all look good. Cleaned up and backed up hard drive to preserve work.
07/28/2007	9:00 AM	10:00 AM					1.00				1.00			Checking only xxNRD. Making spreadsheet difference between baseline and NDbvNRD. Helping Doug with CMU conversion. Installed new hardware after 2:00 PM and started to reload Windows (time not charged to anyone).
07/30/2007	7:30 AM	12:15 PM	1:00 PM	2:00 PM			5.75				4.75	1.00		Spent all day trying to get Dell XPS to work. Spent time with Dell support. Time not charged to anyone.
07/31/2007							124.75	56.50		13.00	53.00	2.25		July total and total by task number