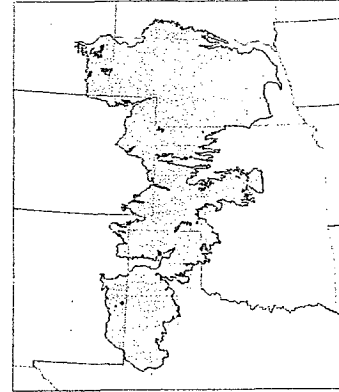


High Plains Hydrology LLC  
7956 S. Shawnee St.  
Aurora, CO 80016-7206  
(303) 693-0299



July 2, 2007

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

RECEIVED

JUL 05 2007

DEPARTMENT OF  
NATURAL RESOURCES

Dear Steve:

Enclosed please find my monthly report for June, an invoice for the time and expenses for work with the Department of Natural Resource, a spreadsheet supporting the time, and a worksheet supporting travel expenses. If you have any questions, please give me a call. Thank you.

Sincerely,

*Dick*

Richard R. Luckey  
Senior Hydrologist

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

**Status Report, June 30, 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 continued to work on the differences between the Cooperative Hydrology Study (COHYST) models and the Republican River Compact Administration (RRCA) model in June. He compared recharge between the models by period. He then compared net stress (recharge minus pumpage) between the models for 1950-61, 1961-73, 1973-85, and 1985-98. He prepared maps and graphs of the differences between net stress by period and updated the documentation on net stress comparison. Dick prepared a PowerPoint presentation with the results to date.

Dick met DNR and McDonald-Morrissey staff in Lincoln on June 26 to show them what had been done in comparing the RRCA and COHYST models. This meeting resulted in some things being presented in more detail in the final report, but no major changes in work scope were made. There will be a comparison of evapotranspiration (ET) inputs as a result of this meeting. There was some discussion that some management scenario should be simulated using both models and the results should be compared. However, no real decisions were made on this.

**Plans for next month:**

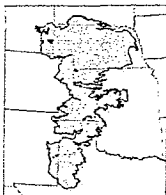
~~Dick will continue to work on the comparison of the RRCA and COHYST models in July.~~  
The additional maps requested by McDonald-Morrissey staff will be prepared and added to the documentation. A backup copy of the documentation and maps will be made and sent to Jim Schneider for safe keeping.

Dick will see what other things need to be compared between the models. He has a fairly extensive list, but many things on the list are fairly trivial and won't require a lot of work.

Dick will do other tasks as requested by DNR.

# High Plains Hydrology LLC

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



# INVOICE

INVOICE #126  
DATE: JULY 2, 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

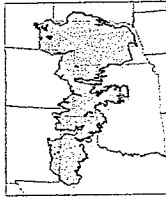
LABOR DESCRIPTION	HOURS	RATE	AMOUNT
June, 2007, Task 1-1 (see attached spreadsheet)	0.50	\$ 70.00	\$ 35.00
June, 2007, Task 1-2 (see attached spreadsheet)	43.00	70.00	3,010.00
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
Travel June 26-28, Task 1-2 (see attached worksheet)			904.84
<b>TOTAL this Period</b>			\$ 3,949.84
<b>Previous balance</b>			\$ 1,505.00
<b>Payments received</b>			\$ 1,505.00
		<b>TOTAL</b>	\$ 3,949.84

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!**

# High Plains Hydrology LLC

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



# Travel Expenses

**Dates of Travel:** June 26-28, 2007

**From** Aurora, CO **to** Lincoln, NE **to** Aurora, CO

**Travel for** DNR Task 1-2

**Purpose of Travel:** Meet with McDonald-Morrisey staff about Republican-COHYST model comparison. Meet with DNR staff on various issues.

<b>Transpiration</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
Air fare			\$ 399.29
Mileage to airport	47	\$0.485	22.80
Tolls			8.00
Parking at airport			24.00
Parking in Lincoln			16.00
Rental car			121.42
Gasoline			1.18
<b>Food and Lodging</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
Meals			58.25
Lodging			253.90
<b>Miscellaneous</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>TOTAL</b>			<b>\$ 904.84</b>

Receipts for major expenses follow on separate sheets.

**Thank you for your business!**

Welcome To McDonalds

1141 WEST BOND STREET  
LINCOLN, NE 68521

THANK YOU

WEST BOND TEL# (402)475-5238  
48 KS#13 **S#1** Jun.26'07(Tue)13:06  
STORE# 6773

1 QTR CHEESE MEAL 2.85  
1 MED COKE 1.30  
SUB TOTAL 4.15  
TAKE OUT TAX 0.29  
4.44  
CASH TENDERED 5.00  
CHANGE 0.56

AGEE'S TOWNE PARKING

DATE 06/26/2007 TUE TIME 17:19

4 HOURS \$4.00  
TOTAL \$4.00  
CASH \$4.00  
CLERK 1 003286 00000

Lazlo's Brewery & Grill  
710 P Street  
Lincoln, NE 68508  
(402) 434-5636

2008 FULLER

Tbl 234/1 Chk 480 Gst 1  
Jun26'07 07:09PM

\*\*\* Guest 1 \*\*\*

1 16 Collapsar 3.75  
1 Rib Appetizer 9.45  
Subtotal 13.20  
Tax 0.92

07:43PM Total 14.12  
\*\*\*\*\* ALL \*\*\*\*\*

Subtotal 13.20  
Tax 0.92  
07:43PM Total 14.12

Lazlo's Brewery & Grill  
710 P Street  
Lincoln, NE 68508  
(402) 434-5636

Date: Jun26'07 07:48PM  
Card Type: Visa/M.C.  
Acct #: XXXXXXXXXXXX6206  
Exp Date: XX/XX  
Auth Code: 043544  
Check: 480  
Table: 234/1  
Server: 2008 FULLER  
RICHARD R LUCKEY

Please Pay Your Server!

See CC receipt to left

Subtotal: 14.12  
Tip: 3  
Total: 17.12

Guest Copy

**\*\* Brewsky's Haymarket\*\***  
 Food & Spirits  
 201 North 8th Street  
 Lincoln, Nebraska 68508  
 Phone: (402) 328-BREW

AGEE'S TOWNE PARKING

DATE 06/28/2007 THU TIME 16:45

THE ORIGINAL  
 JIMMY  
 JOHN'S

1064 Katie H

6 HOURS \$6.00  
 TOTAL \$6.00  
 CASH \$6.00  
 CLERK 1 003395 00000

2:22PM JUN 27/07  
 00-0000 001 CASH 4  
 #39392

Tbl 133/1 Chk 1518 Gst 1  
 Jun27'07 07:41PM

\*\*\*\* Seat 1 \*\*\*\*

SUB #5 1\$2.75  
 CHIPS 1\$0.75  
 MD POP 1\$1.17  
 COMBO 1-0.10  
 MDSE \$5.57  
 TAX1 \$0.39  
 CASH \$5.96

2 Draw Sam Adams 6.80  
 1 Buffalo Wings 5.00  
 Tax 0.83 Total 12.63

\*\*\*\*\* All \*\*\*\*\*

Subtotal 11.80  
 Tax 0.83  
 Total 12.63

Welcome to U-STOP #1  
 12925 NW 12th Street  
 Lincoln, NE 68521

WORLD'S GREATEST  
 GOURMET  
 SANDWICH SHOPS

Invoice # 8000000  
 Date 06/28/07  
 Time 04:58PM  
 Auth # 599622

**\*\* Brewsky's Haymarket\*\***  
 Food & Spirits  
 201 North 8th Street  
 Lincoln, Nebraska 68508  
 Phone: (402) 328-BREW

VISA Acct #  
 XXXXXXXXXXXXX6206  
 Exp. Date 01/10  
 RICHARD R LUCKEY

Date: Jun27'07 08:55PM

Pump Gallons Price  
 08 0.393 \$2.999

Card Type: Visa/mc  
 Acct #: XXXXXXXXXXXXX6206  
 Exp Date: XX/XX  
 Auth Code: 082547  
 Check: 1518  
 Table: 133/1  
 Server: 1064 Katie H  
 RICHARD R LUCKEY

Product Amount  
 SUPER \$1.18  
 Total Sale \$1.18

Complete a survey at  
 twww.gasvisit.com and  
 dreg to win FREE gas

AGEE'S TOWNE PARKING

DATE 06/27/2007 WED TIME 18:12

6 HOURS \$6.00  
 TOTAL \$6.00  
 CASH \$6.00  
 CLERK 1 003354 00000

Subtotal: 12.63

Tip: 2.50

Total: 15.13

Signature

I agree to pay above total  
 according to my card issuer  
 agreement.  
 THANK YOU

US AIRPORT PARKING  
18000 EAST 81ST AVE  
COMMERCE CITY 80022

AIRHOST  
LINCOLN MUNICIPAL AIRPORT  
LINCOLN, NE.

DATE 06/28/2007 THU TIME 18:13

FOOD T1 \$6.35  
FOOD T1 \$2.15  
TAX1 \$0.60  
TOTAL \$9.10  
CASH \$10.10  
CHANGE \$1.00

CLERK 1 No.194412 00000

Rcpt# 30865  
06/28/07 20:55 L# 5 A# 13 Tx# 34168  
06/26/07 08:18 In 06/28/07 20:55 Out  
Tkt# 094547  
VISA \$ 24.00-  
XXXXXXXXXXXX6206  
Approval No.:019019  
Reference No.:000000000000880  
THANK YOU FOR YOUR BUSINESS  
QUESTIONS OR COMMENTS 303 371 7575  
RECEIPT GOOD FOR CREDIT ON FREQUENT  
PARKER CARD 30 DAYS FROM ISSUE

**UNITED**

ETKT PASSENGER RECEIPT

DUPLICATE 2159471118

C 43711-3 CONXA US 4JUN07

LUCKEY/RICHARD

ZWLKRO/UA MULTI

NOT VALID FOR

TRANSPORTATION

THIS IS YOUR RECEIPT

0

000382

NONREF-CHG100PLUSFAREDIF-/CXL BY FLT DATE OR NOVALUE

VIXXXXXXXXXXX6206

5 175.81HR7QN USD356.27END ZPDENLNK XT 6.80ZP 5.00AY 4.50XFDEN4.5

USD356.27

US26.72

XT16.30

USD399.29

0 016 2159471118 1

**UNITED**

\*\*\*\*\*

2159471118

LUCKEY/RICHARD

DENLNKUA5900 Q26JUN

LNKDENUA5890 H28JUN

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

NOT VALID FOR TRAVEL

0 016 2159471118 1

**Thrifty Car Rental - Lincoln**  
**2400 W Adams St Flacks Enterprises Ltd.**  
**Lincoln, NE 68524 (402) 474-1122**

280501

Open Emp.# 64  
 Close Emp.# 63

Confirmation # DJD94B

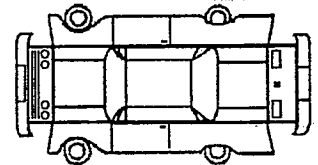
Customer Information	Rental Expiry Information	Rental Agreement Number
RICHARD LUCKEY 7956 S SHAWNEE ST AURORA, CO 80016 (303) 693-0299	BCST72B Cust No: 22123 DL#: 943041037 CO 12/01/2014	1043660
- NO ADDITIONAL DRIVERS -  ONLY AUTHORIZED RENTERS MAY DRIVE THE CAR.	Vehicle Information Veh.#: 75302 Stall: Lic.#: 071-TSZ 2007 DODGE CHARGER Fuel Out: 8/8 Odom Out: 8,864 Fuel In: 8/8 Odom In: 8,878 Miles Driven: 14 VEHICLE NOT ALLOWED IN MEXICO	Rate Information  Daily 3 31.49 day 94.47 Net T&M 94.47 FF RECOVERY FEE .50 day 1.50 Sales Tax 2 4.500 % 4.32 State Surcharge 3 1.25 day 3.75 AA Literal 11.110 % 10.66 Sales Tax 1 7.000 % 6.72 Subtotal of Other Charges 26.95  Total Charges 121.42
Destination: Source: 100 20	Deposit Information VI 47XXXXXXXXXX6206 150.00	Payment VI 47XX 6206 121.42 Total Deposits/Payments 121.42
Coverages I have DECLINED PDWC9 LIMIT: _____ I have DECLINED SLI _____ I have DECLINED PAC _____ I have DECLINED PEC _____		

THIS ADDENDUM is intended to provide conspicuous notice to the Authorized Renter(s) of the following:

i. Paragraph 1 of the RA is amended by adding the following language:

All authorized renters further warrant and represent that during the past three (3) years: (a) their drivers license has not been suspended, revoked or refused for any reason; (b) they have not been fined, convicted or forfeited bail for driving while under the influence of alcohol or drugs or cited for speeding in excess of 20 miles per hour over the speed limit or for more than two 'moving violations;' (c) they have not been involved in two or more motor vehicle accidents in which their insurance carrier was required to pay property or bodily injury damages; and (d) they have not been cited for failure to report an accident or failed to remain at the scene of an accident.

All authorized renter(s) agree to grant to Thrifty the right, at any time to verify their motor vehicle driving record and authorize the appropriate governmental department to release such information to Thrifty.



ii. Paragraph 3 of this RA is amended by adding the following paragraph:

C. FOR PURPOSES OF THIS AGREEMENT, GROSSLY NEGLIGENT CONDUCT INCLUDES, BUT IS NOT LIMITED TO, PARKING THE CAR OR LEAVING THE CAR UNATTENDED AT A LOCATION IN THE U.S. THAT IS WITHIN 50 MILES OF THE BORDER BETWEEN THE U.S. AND MEXICO UNLESS THE CAR IS GARAGED AT A LOT THAT IS FENCED-IN, AND (ii) THE LOT HAS A PARKING ATTENDANT ON DUTY ON A 24-HOUR BASIS.

The Rental Agreement is between the undersigned and the company identified above (the "Company"). By signature below, the undersigned acknowledges and represents that they are legally authorized to operate the rental vehicle by valid driver's license, and that they have read and agreed to the terms, conditions and notices, both printed and written, including the Loss Damage Waiver information, that appear on the Rental Statement and on the separate rental jacket (the "Agreement"), which is incorporated herein. **THE UNDERSIGNED AUTHORIZE THE COMPANY TO PROCESS A CHARGE TO THEIR CREDIT, DEBIT OR CHARGE CARD IN THE AMOUNT SPECIFIED ABOVE FOR THIS RENTAL UPON SIGNATURE BELOW AND FOR ALL ADDITIONAL CHARGES DUE UPON RETURN OF THE VEHICLE. ALL CHARGES ARE SUBJECT TO AUDIT. NO ADDITIONAL DRIVERS ARE PERMITTED WITHOUT THE COMPANY'S APPROVAL.**

X \_\_\_\_\_ RENTER X \_\_\_\_\_ ADDITIONAL DRIVER





Richard Luckey  
 U S Geological Survey  
 Box 25046 Mail Stop 406  
 Lakewood, CO 80225

A/R Number  
 Group Code  
 Folio/Invoice No. /  
 Reference #

Room No. 0810 Page No. 1 of 1  
 Arrival 06-26-07 Cashier No. 108  
 Departure 06-28-07 User ID VANESSAB

[www.holiday-inn.com/lincolne](http://www.holiday-inn.com/lincolne)

Date	Description	Charges	Credits
06-26-07	*Accommodation	107.99	
06-26-07	Tax	12.96	
06-26-07	Garage Parking	6.00	
06-27-07	*Accommodation	107.99	
06-27-07	Tax	12.96	
06-27-07	Garage Parking	6.00	
<b>Total</b>		<b>253.90</b>	<b>0.00</b>
<b>Balance</b>		<b>253.90</b>	

Thank you for staying at the Holiday Inn Lincoln-Downtown. Qualifying points for this stay will automatically be credited to your account. To make additional reservations online, update your account information or view your statement please visit [www.priorityclub.com](http://www.priorityclub.com). We look forward to welcoming you back soon.

Guest Signature: \_\_\_\_\_

I have received the goods and / or services in the amount shown heron. I agree that my liability for this bill is not waived and agree to be held personally liable in the event that the indicated person, company, or association fails to pay for any part or the full amount of these charges. If a credit card charge, I further agree to perform the obligations set forth in the cardholder's agreement with the issuer.

Holiday Inn Lincoln-Downtown  
 141 North 9th Street  
 Lincoln, NE 68508-1311  
 Telephone: (402) 475-4011 Fax: (402) 475-9011

Date	Start	Stop	Start	Stop	Start	Stop	Task 1	Task 2	Task 3	Task 4	DNR 1-1	DNR 1-2	Notes
06/01/2007	12:00 PM	1:15 PM					0.75				0.50		Monthly report COHYST. Monthly report DNR. COHYST email.
06/04/2007	8:00 AM	8:45 AM	12:15 PM	5:00 PM			5.50					3.00	Download zip files from Kocstar based on call last week. Helping Doug on CMUJ. Writing notes on OAZFA archive. Organizing travel for late June.
06/05/2007	8:30 AM	1:00 PM	1:30 PM	5:00 PM			8.00					4.50	Reviewing RRCA pumpage status. Computing COHYST recharge by period.
06/06/2007	9:00 AM	12:00 PM	1:15 PM	5:00 PM			6.75						All times MDT. RRCA net stress. Travel for COHYST meeting. Review SW modeling write-up. Held to 8 hours because of travel.
06/07/2007	6:30 AM	8:00 AM	11:00 AM	1:15 PM	2:30 PM	5:30 PM	1.75						All times CDT. COHYST Technical Committee meeting.
06/08/2007	9:00 AM	1:00 PM					4.00						Cost estimates for COHYST new modeling training. Finding reports and reference lists for new modelers. Working on training tasks for new modelers.
06/11/2007	7:45 AM	12:15 PM	1:15 PM	4:30 PM			7.75						New modeler training tasks. RRCA net stress. Call with Doug to discuss new modeler training. Revising training tasks for new modelers before July
06/12/2007	8:15 AM	12:15 PM	1:45 PM	4:45 PM			7.00						New modeler training. RRCA net stress text. Rebuilt net stress differences because of error.
06/13/2007	7:30 AM	12:30 PM	1:00 PM	3:00 PM	3:45 PM	4:45 PM	8.00						Net stress statistics. Net stress limited to +/- 10. Net stress graphs with limits. Helping Doug with new modeler training. RRCA documentation text
06/14/2007	7:30 AM	12:30 PM	1:30 PM	4:00 PM			7.50		5.50				OAZFA spreadsheets to Kraus. Modeler training emails. Finding files for MODFLOW OAZFA work. Burning and documenting OAZFA archival DVD.
06/15/2007	9:00 AM	11:45 AM					2.75			2.75			Mailed DVD at 2:30. Task 4 clarification. Helped Kevin with projections.
06/22/2007	9:45 AM	12:15 PM	1:15 PM	3:45 PM			5.00						Started COHYST task 4. Review what model files I have for CMUJ and EMUJ. Review previous NE work.
06/25/2007	6:45 AM	12:15 PM	1:00 PM	3:30 PM			8.00						3:25 Email catch up. New modeler catch up. RRCA presentation for next week.
06/26/2007	8:00 AM	11:30 AM	12:00 PM	4:00 PM			7.50						5:00 Copy CD from Ken Wahl. RRCA PowerPoint for tomorrow. COHYST modeler training. Working on training model to get river arcs to work.
06/27/2007	8:00 AM	1:00 PM	2:00 PM	5:00 PM			8.00						7:50 All time MDT. Travel to Lincoln. Meet with DNR and McDonald start about comparison of RRRCA and COHYST models.
06/28/2007	5:00 PM	7:30 PM					2.50						Working with Doug Hallum on new modeler training and COHYST archives. Changed ending time to limit day to 8 hours.
06/29/2007	8:15 AM	12:45 PM	2:00 PM	4:30 PM			7.00						GIS workshop and DNR modeler meeting not charged to anyone. Time charged was for new modeler training.
							103.25		5.50	2.75	0.50	43.00	New modeler training. Task 4 simulations and PowerPoint presentation.
													June total and total by task number