

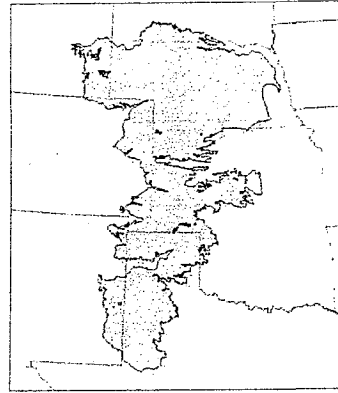
RECEIVED  
JUL 03 2008

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

DEPARTMENT OF  
NATURAL RESOURCES

July 1, 2008

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



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 worksheet supporting insurance expensed for January through June, and a spreadsheet supporting the time. If you have any questions, please give me a call. Thank you.

Sincerely,

Richard R. Luckey  
Senior Hydrologist

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

**Status Report, June 30, 2008**

**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 spent considerable time in June working on the comparison of the COHYST and Republican models. The Department of Natural Resources provided comments late May and on June 3 on a draft report on the comparison. There were over 100 comments plus a number of editorial suggestions. Dick started work on the comments in May and finished them in June.

Dick reorganized the Introduction to the report to include a discussion of the groundwater mound early on. He also reorganized the Results section. These reorganizations were done as a result of comments received from the Department. Dick redid the analysis of the evapotranspiration (ET) surface to include only those cells where both the RRCA and COHYST ET rates were non-zero, also as a result of comments. He redid all the charts in the report to make them look better. The x-axis labels were close to the percentile lines, and this caused potential confusion. He also found a way of moving the charts into the Word document that made them look much better.

Dick changed the color scheme on a number of maps to make them more intuitive based on suggestions from Doug Hallum. This really did help. He also redid a number of other maps so the maps in the report looked more consistent.

Dick spent parts of two days doing a complete read through of the documentation and making minor adjustments to it. Once the Word version of the documentation was finalized, he worked on an Adobe PDF versions of the documentation. The PDF contains bookmarks for all sections, figures, and tables. The final report was sent to the Department on June 25.

**Plans for next month:**

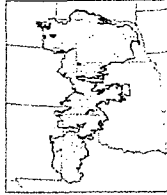
Dick will organize all the shapefiles, spreadsheets, and other files used in the comparison of the COHYST and RRCA models. He will prepare metadata for the shapefiles to make them more useful. He will create an archival DVD of this data and send it to the Department. This task will be started in July, but may not be finished. If data are needed before the final DVD is prepared, he may provide partial data sets to the Department.

Dick may start work on a PowerPoint presentation of the comparison of the COHYST and RRCA models. He will give the presentation to the Department sometime in the fall.

Dick will work with Doug Hallum and Jim Schneider on what kind of water budgets are needed for the area of overlap between the COHYST and RRCA models. The need for these budgets came up during the review of the comparison documentation. The budgets will be for at least several dates, and may include annual budgets. There also may be budgets for subareas of the study area. How this will be done will be determined over the next few months.

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 #150  
DATE: JULY 1, 2008

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

**RECEIVED**  
**JUL 03 2008**  
DEPARTMENT OF  
NATURAL RESOURCES

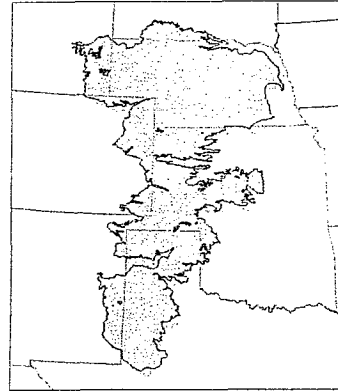
**FOR:**  
Services of Senior Groundwater Modeler

LABOR DESCRIPTION	HOURS	RATE	AMOUNT
June, 2008, Task 1-1 (see attached spreadsheet)	0.25	\$ 75.00	\$ 18.75
June, 2008, Task 1-2 (see attached spreadsheet)	53.25	75.00	3,993.75
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
Insurance for January-June, 2008 (see attached worksheet)			657.38
<b>TOTAL this Period</b>			\$ 4,669.88
<b>Previous balance</b>			\$ 7,518.75
<b>Payments received</b>			\$ 1,950.00
		<b>TOTAL</b>	\$ 10,238.63

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  
(303) 693-0299



July 1, 2008

### 2008 Insurance Cost Worksheet

Annual cost of professional insurance obtained February 2007 = \$3,193.00. (See attached sheet)

Annual cost of professional insurance obtained February 2008 = \$3,193.00. (See attached sheet).

Cost allocated to January-June, 2008:	$\$3,193.00 * (1/12) =$	\$ 266.08
	$\$3,193.00 * (5/12) =$	<u>1,330.42</u>
		\$ 1,596.50

Hours worked for COHYST January-June, 2008	=	403.00
Hours worked for DNR January-June, 2008	=	288.75
Hours worked for others January-June, 2008	=	<u>9.50</u>
Total hours worked January-June, 2008	=	701.25

For the period January-June, 2008:

Insurance charged to COHYST =  $\$1,596.50 * (403.00/701.25) = \$917.49$

Insurance charged to DNR =  $\$1,596.50 * (288.75/701.25) = \$657.38$

Richard R. Luckey  
Senior Hydrologist



Full package in ...  
in folder High Plains Hydrology LLC  
Common Policy Declarations

This contract is delivered as a surplus line coverage under the "Nonadmitted Insurance Act". The insurer issuing this contract is not licensed in Colorado but is an approved nonadmitted insurer. There is no protection under the provisions of the "Colorado Insurance Guaranty Association Act". This policy is a claims-made policy which provides liability coverage only if a claim is made during the policy period or any applicable extended reporting period

	Hudson Insurance Company
X	Hudson Specialty Insurance Company (A New York Domiciled Company)

Policy Number: FEC7001634  
Renewal Of: FEC6111124

"THIS POLICY IS A CLAIMS-MADE POLICY WHICH PROVIDES LIABILITY COVERAGE ONLY IF A CLAIM IS MADE DURING THE POLICY PERIOD OR ANY APPLICABLE EXTENDED REPORTING PERIOD."

<b>Named Insured</b> High Plains Hydrology, LLC 7956 S. Shawnee Street Aurora, CO 80016	<b>Program Administrator</b> Freberg Environmental, Inc. 1451 Larimer Street, Suite 200 Denver, Colorado 80202
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<b>Policy Period</b>	
<b>From:</b> 2/3/2008	<b>To:</b> 2/3/2009
At 12:01 am Standard Time at your mailing address shown above	

In return for the payment of premium, and subject to all the terms of this policy, we agree with you to provide the insurance as stated in this policy.

This policy consists of the following Coverage Parts as indicated:	Premium
Commercial General Liability Coverage	Included
Contractors Pollution Liability Coverage	Included
Professional Liability Coverage	Included
Environmental Impairment Liability Coverage	Not Covered
Storage Tank Environmental Impairment Liability Coverage	Not Covered
<b>Total Coverage Part Premium</b>	<b>\$2,500</b>
Terrorism Coverage	Not Covered
<b>Total Premium</b>	<b>\$2,500 +++</b>

FORMS APPLICABLE TO ALL COVERAGE PARTS: See FEI-0104-451-E Schedule of Forms and Endorsements and attached State specific Surplus Lines Warning.

These declarations together with the common policy conditions, coverage part declarations, coverage part coverage forms(s) and forms and endorsements, if any, issued to form a part thereof, complete the above numbered policy.

By: Michael J. Hill  
Authorized Representative  
Freberg Environmental, Inc.

Issue Date: 2/25/2008  
+++ Plus: \$200.00 Company Loss Control Fee; \$250.00 Company Fee;  
\$150.00 Policy Fee and \$93.00 3% SL Tax

NO FLAT CANCELLATIONS

FEI-0104-309-E

#	2,500
	200
	250
	150
	93
#	3,193



# BURNS & WICOX Ltd.

A KAUFMAN GROUP COMPANY

7936 E. Arapahoe Ct, Suite 3000, Englewood, CO 80112  
Phone: (303) 804-0700 OR (800) 888-9701 Fax: (303) 804-0207

Page 1 of 2

## INSURANCE BINDER

DATE: 2/8/2007

THIS BINDER IS A TEMPORARY INSURANCE CONTRACT. SUBJECT TO THE CONDITIONS SHOWN BELOW.

INSURED: High Plains Hydrology, LLC

7936 S. Shawnee St  
Aurora, CO 80016

B&W PRODUCER: Edmund J Holub

AGENT: Brian R. Luckey

1300 Broad St  
Milliken, CO 80543

### LOCATION(S) OF RISK:

# 1: 7936 S. Shawnee St., Aurora, CO 80016

POLICY EFFECTIVE FROM: 02/03/07 AT 12:01 AM TO 02/03/08 AT 12:01 AM STD TIME AT RISK LOCATION.

CLAIMS MADE Retro Date: 02/03/2006

FORM OF COVERAGE: PROFESSIONAL LIABILITY

Environmental Consultants

POLICY NO: FE06111124

INSURER(S):

Line Of Business

PROFESSIONAL LIABILITY

LIMITS / DEDUCTIBLES:

Supplier(s)

Hudson Specialty Insurance Company

100.00%

### TOTAL CHARGES:

Premium	\$ 2,500.00	Professional Liability	TERM MINIMUM PREMIUM
Fee	\$ 150.00	Policy Fee Fully Earned	15.00% EARNED
Fee	\$ 250.00	Supplier Fee Fully Earned	MINIMUM PREMIUM \$625.00
Fee	\$ 200.00	Supplier Inspection Fee Fully Earned	
Tax	\$ 200.00	Supplier State Tax Prepayment	

TOTAL \$ 3,193.00

2,500
150
250
200
93
<b>3,193.00</b>

EXCLUSIONS:

ENDORSEMENTS:

CONDITIONS:

Date	Start	Stop	Start	Stop	Start	Stop	Hours	COHYST 1	COHYST 4	DNR 1-1	DNR 1-2	NPNRD-1	Notes
05/02/2008	11:15 AM	4:15 PM	6:00 PM	6:45 PM			5.75	5.50		0.25			Monthly reports. CycleWell spreadsheet update. Pump rate comparison of CycleWell. Inject rates comparison on CycleWell. All 1 stress period. Trying to understand differences in CycleWell. Inject 8000 and 16,000. Working on PowerPoint of results.
05/04/2008	8:15 AM	12:30 PM	2:00 PM	4:00 PM			6.25	6.25					PowerPoint on CycleWell. Sent to Duane at 12:00. Worked on New Depletions by NRD (NDByNRD) in the afternoon. Sent to Technical Committee for review. NDByNRD table of contents page numbers.
05/05/2008	9:30 AM	12:00 PM	2:00 PM	4:15 PM			4.75	2.50	2.25				Moved Preface of NDByNRD report to before table of contents. Checked TOC page numbers. RRCA report. Add mound area to figure 3. RRCA report comments.
05/06/2008	9:00 AM	5:30 AM	11:15 AM	12:15 PM	12:45 PM	4:45 PM	5:50	4.25	0.25	5.25	4.25		Helping Tri-Basin NRD find correct gained/lost irrigated land files. Call from Ron Cacok. Preface of NDByNRD report revision. NDByNRD Preface and Limitations sections. Created NDByNRD PDF and added bookmarks. Sent NDByNRD report to Sponsors and Technical Committee at 3:30. Aquifer parameter charts from RRCA documentation.
05/10/2008	11:30 AM	12:15 PM	12:45 PM	5:00 PM			5.00	0.75	2.75	1.50			Email from Rich Holloway. NDByNRD error in Kearney County in Table 3. Tracked down and fixed. Call from Steve. Did not vary canal leakage within a year. RRCA chart template for pumpage. Pumpage charts. Recharge charts. Net stress charts. Water level charts.
05/11/2008	9:15 AM	12:45 PM	1:30 PM	4:30 PM			6.50	0.50		6.00			Prepared handout for North Platte NRD meeting. Call from Clint about COHYST issues. Travel to Scottsbluff. Copied files on Julie's laptop and network area to my external hard drive. Attended NPNRD board meeting and gave report on COHYST models. Limited day to 8 hours.
05/12/2008	8:00 AM	11:30 AM	12:00 PM	4:45 PM	7:00 PM	10:00 PM	8.00	8.00					Meet with Ron Cacok about Bridgeport Ethanol plant and Gering well field. Travel to Aurora CO.
05/13/2008	8:15 AM	12:45 PM	1:15 PM	2:45 PM			6.00	4.25				1.75	RRCA water-level change charts. Mound area chart. Read water level charts (bad Y axis title). Redid base of aquifer chart. Trying to figure out how to check ET surface where ET rate is non-zero.
05/16/2008	11:15 AM	1:00 PM	1:30 PM	4:45 PM			5.00			5.00			RRCA/COHYST ET surfaces differences. New map and statistics to text. Comments through end of Aquifer Parameters section.
05/17/2008	1:15 PM	4:00 PM					2.75			2.75			Working on RRCA comments. Reorganizing Simulation Results section. Working on "No Value" for some maps. Inverted colors on RRCA new stress maps - much better.
05/18/2008	7:00 AM	12:30 PM	1:00 PM	4:00 PM			8.50			8.50			Inverting colors on COHYST net stress maps. Call about Gering well field work from Eric Saener at HRS Water Consultants. Located Gering well field stuff in Julie's directory. Put on DVD. Called Ron C. about giving it to consultant. Delivered to HRS after doctor appointment. Call to Doug about RRCA review comments.
05/19/2008	8:15 AM	9:45 AM	11:00 AM	12:30 PM			3.00			2.25	0.75		Upgraded various RRCA maps to make them all look consistent. Checked report to make sure all comments were considered. Started read through of entire report.
06/20/2008	8:30 AM	1:00 PM	3:15 PM	5:00 PM			6.25			6.25			Continued read through of entire RRCA report.
06/23/2008	8:45 AM	10:45 AM	1:30 PM	4:30 PM			5.00			5.00			Finished RRCA report read through. Checked table of contents, figures, and tables page numbers. Checked for "area of overlap" instead of "study area." Report finalized at 2:30. Started printing final copy. Created PDF. Added bookmarks for all figures and tables.
06/24/2008	7:15 AM	9:00 AM	1:45 PM	4:30 PM			4.50			4.50			Burned CD's for RRCA report. Finished printing report. Turning landscape pages on printed versions. Took report to Office Max to get bound.
06/25/2008	9:30 AM	11:30 AM	3:00 PM	3:15 PM			2.25	0.25		2.00			Mailed report to DNR. Checking gained/lost irrigated land for Rich Holloway.
06/26/2008	8:00 AM	1:00 PM					5.00		5.00				Clean up directory to make NDByNRD archival disks. Making archival disk for EMU, CML, WML, Documentation, and GIS. Clean up NDByNRD files. Mailed DVD's to Doug Hallum and Duane Woodward.
06/27/2008	9:00 AM	12:45 PM	1:15 PM	4:30 PM			7.00						Looking at Gering well field work in Julie Gogol's files. Rebuilt scenario 2 because of bad well locations. Reman. Built some maps for documentation.
06/30/2008	7:45 AM	12:00 PM	1:00 PM	5:30 PM			8.75	8.75					Reviewed CML documentation pages 1-57. Call from Doug Hallum about how to handle times series data to get cell-by-cell statistics.
							110.00	36.25	10.75	53.25	9.50		June total and total by task number



Nebraska Department of Natural Resources

**O.K. To Pay**

Date 7/7/08  
M/D/Y

Contract Manager STEVE Goul

DNR Contract No. 179 and 258

NIS No. \_\_\_\_\_

O.K. to Pay OK to Pay \$4669.88 SG  
(initials)

Paid on \_\_\_\_\_ by \_\_\_\_\_  
M/D/Y (name)

Amount Remaining in Account \$ 40761.98 <sup>2</sup>

Return to Contract Manager

**Comments:**  
Total Bill is \$10238.63 but remainder should  
have been paid under previous Authorization  
leaving only \$4669.88 for this Bill. Know  
if the remaining portion of the \$10238.63  
is not in the process of being paid, please  
let me know.