

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER SUPPLY BANK RENTAL AGREEMENT

RECEIVED

APR 27 2015

DEPARTMENT OF
WATER RESOURCES

This is to certify that: **THE RALPH R & BETH POCOCK FAMILY LTD PARTNERSHIP**
2964 N 5000 E
SUGAR CITY ID 83448
208-356-3555

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board"), being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank, agrees to rent water as follows:

Summary of Water Rights or Portions Rented from the Bank

Water Right	Priority Date	Source	Tributary	Rented Rate	Annual Rented Volume	Acre Limit	Total Rented Acres
22-2175B	02/23/1960	Ground Water	NA	0.62 cfs	136.5 af	NA	39.0 ac
22-7336	10/22/1980	Ground Water	NA	0.25 cfs	43.8 af	NA	12.5 ac

Annual Combined Rental Totals

0.87 cfs 180.3 af NA 51.5 ac

Term of Rental: **January 12, 2015 to December 31, 2015**
Rental Fee: **\$3065.10**

The fee for rental of the above-described water is \$3065.10 per year. Ten percent (\$306.51) will go to the Department for administrative costs, and the remainder will be paid to the lessor(s). No rental fees will be refunded once the fee is collected and the start date for a Rental Agreement has passed.

Detailed water right conditions are attached.

SUPPORT DATA

IN FILE # 22-21758

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER SUPPLY BANK RENTAL AGREEMENT

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Signature of Renter

Ray R Porcosh / owner
Printed Name and Title*

4-20-2015
Date

Signature of Renter

Ray R Porcosh / owner
Printed Name and Title*

4-20-2015
Date

*Please provide title of signatory if signing on behalf of a company or organization or with power of attorney

Having determined that this agreement satisfied the provisions of Idaho Code § 42-1763 and IDAPA 37.02.03.030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and condition herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board.

By

Brian Patton
BRIAN PATTON, Acting Administrator
Idaho Water Resource Board

Date

April 27, 2015

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WATER SUPPLY BANK RENTAL AGREEMENT

WATER USE DETAILS

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NE¼NE¼SW¼	Sec. 24	Twp 06N	Rge 41E	MADISON County
GROUND WATER	SE¼SE¼SW¼	Sec. 24	Twp 06N	Rge 41E	MADISON County

BENEFICIAL USE

IRRIGATION

SEASON OF USE

04/01 TO 11/01

RENTER'S PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	41E	24	4.0	3.4	3.1	4.0	4.5	3.6	3.7	4.6	2.5	2.4	2.6	2.1	2.7	2.8	2.3	3.2	51.5

Total Acres: 51.5

CONDITIONS APPLICABLE TO ALL RENTED WATER RIGHTS

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in any other department application process.
3. Use of water under this agreement does not constitute a dedication of the water to renter's place of use, and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
4. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
5. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
6. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
7. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
8. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
9. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
10. This rental agreement does not authorize the construction of a well.
11. The renter must diligently pursue a permanent water right to provide for the uses authorized under this rental agreement.

12. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands above.
13. The following rights are diverted through point(s) of diversion described above: 22-7167A, 22-7052A, 22-2271D, 22-7439, 22-14082, 22-14083 and 22-14084



STATE OF IDAHO
WATER RESOURCE BOARDAPPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANKRECEIVED
APR 10 2015
DEPARTMENT OF
WATER RESOURCESApplicant Name: Ray PocockIs this application being submitted with a lease application as a lease/rental package? Yes ☐ No ☒

An *Application to Rent Water from the Board's Water Supply Bank* must be completed in accordance with the minimum requirement checklist below to be acceptable for processing by the Idaho Department of Water Resources (IDWR). This checklist is part of the rental application and must be included with the rental application. **Applications that do not meet the minimum requirements will not be placed in the processing queue and may be returned until all minimum requirements have been met.**

Applications to rent water should be submitted well in advance of the desired start date for the use of water. Rental applications may be submitted as early as November 1 of the year prior to the intended use of rental water. Rental applications submitted more than one year in advance of the proposed start date for water use will not be accepted and will be returned to applicants. Rental applications will not be processed if they are received after the end of the rental season of use.

One rental application per beneficial use of water. One rental application can be submitted if you propose to rent water from multiple sources. For multiple beneficial uses of water, individual rental requests should be submitted for each unique beneficial use of water.

For additional instructions on completing a rental application, visit the Department's website at www.idwr.idaho.gov.

Checked All Items as Either Attached (Yes) or Not Applicable (N/A)

YES

☒ Completed *Application to Rent Water from the Board's Water Supply Bank*

Attachment N/A YES

- | | | | |
|----|-------------------------------------|-------------------------------------|--|
| 2 | ☒ | ☐ | A map showing the proposed point(s) of diversion, place(s) of use, and water diversion and distribution systems proposed to be used with your rental request |
| 3A | ☒ | ☐ | Detailed information on a proposed use of rental water |
| 3E | ☒ | ☐ | Authorization from the owner/operator of the rental point(s) of diversion |
| 3G | ☐ | ☒ | Water modeling to account for the impacts of the rental request |
| 3J | ☒ | ☐ | Documents justifying a need to rent water for irrigation at a rate of flow greater than 0.02 cfs/acre |
| 3K | ☒ | ☐ | Authorization from the owner/operator of the property at the proposed rental place(s) of use |
| 4B | ☒ | ☐ | Explanation of how the rental water will sufficiently accomplish your rental purposes |
| 4C | ☒ | ☐ | Explanation of consumptive use amounts for water rights experiencing a change in nature of use |

Department Use Only – Proposed Water Right(s)

22-2175B

22-7336

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

1. CONTACT INFORMATION

A. Applicant Ray Pocock

Mailing Address 2964 N 5000 E, Sugar City, ID 83448

Email Address _____ Phone Number 208-201-2101

- B. Is this application being completed by an authorized representative on behalf of the applicant? Yes ☒ No ☐
If yes, representatives (includes company employees if the applicant is a corporation, as well as legal counsel or consultants) should provide their information below if they desire to be included on correspondence with the rental applicant.

Representative Bryce A. Contor Professional Title Senior Hydrologist

Organization Rocky Mtn. Env. Associates, Inc. Relationship to Applicant Consultant

Mailing Address 482 Constitution Way Suite 303, Idaho Falls, ID 83402

Email Address bcontor@rockymountainenvironmental.com Phone Number 208-524-2353

2. MAP

Create a map of the proposed point(s) of diversion, place(s) of use, and water diversion, delivery and distribution systems. Make sure the place of use is outlined with an obvious, bolded line. For irrigation purposes, note that the place of use outlined on your map cannot exceed the number of acres you are proposing to rent. Attach the map to this application and label it **Attachment 2**.

3. DESCRIPTION OF PROPOSED USE FOR RENTAL WATER

- A. Describe the purpose of your rental request. Include any anticipated rates of water application, water use practices or number of stock (if any). If the proposed use is not for irrigation, please provide a detailed description of the proposed use and how you determined the amount of rental water required. Attach additional sheets if required and label it **Attachment 3A**:

This is for irrigation of end guns on four center pivots in 06N 41E 24. The pivots are covered under existing water rights 22-7167A, 22-7052A, 22-2271D, 22-7439, 22-14082, 22-14083 and 22-14084. The water rights do not cover the end guns. The water will be diverted from the same Points of Diversion as the existing rights.

- B. Enter the desired and/or minimum necessary rates of flow, volume, or irrigable acres requested for your rental purposes:

Desired Rate (Cubic Feet/Second)	Desired Volume (Acre-Foot)	Minimum Rate* (Cubic Feet/Second)	Minimum Volume* (Acre-Foot)	Acres (if applicable) (Acre)
1.03 CFS	180.25 AF	0.77 CFS	103 AF	51.5 AC

Sometimes water rights available for rent provide an exceptionally low rate per acre and/or low volume per acre. This section is meant to establish an acceptable range of water sufficient for your proposed water use. Please see question 4B and complete if necessary.

- C. Enter the proposed start date and latest possible start date for using rental water. Also provide the number of years you would like to rent water:

Proposed Start Date (month/day/year)	Latest Possible Start (month/day/year)	* Proposed Rental Duration (Max 5 Years)	** For multi-year rentals, indicate whether you desire to rent water for remaining years if a rental request cannot be approved for the first year?	
4/1/2015	5/1/2015	9 months	☐ Yes , approve rental for all remaining future years.	☐ No , return rental request if first year is unapprovable.

- * The number of years permissible for a rental is subject to the lease contract duration for the water right(s) being rented.
** Subject to the availability of rentable water. A multi-year rental that cannot begin during the first year requested may be approved for some or all remaining years, depending on availability. Rental requests will be returned if no water is available to rent in the first and/or subsequent years of the rental request.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- D. Refer to the map you created in item 2 and specify the location of the point(s) of diversion (POD) from which rental water is proposed to be diverted:

Water Source	TWP	RGE	SEC	¼	¼	¼	County	Other water rights for the same purpose diverted from this POD
Ground Water	06N	41E	24	SW	SW	NE	Madison	please see 3A above
Ground Water	06N	41E	24	SE	SE	SW	Madison	please see 3A above

The entry in this grid must match the map from Item 2 on the application.

- E. Do you own and/or possess the authority to divert water from the above POD(s)? Yes ☒ No ☐
If no, provide documentation from the owner/operator confirming your authorization to use the POD(s) and label it **Attachment 3E**.

- F. Do any POD(s) identified in Question 3D divert from a water source that may require water modeling? Yes ☒ No ☐
Refer to the *Water Modeling Requirements Information Sheet* to determine if a rental POD may require water modeling.

- G. Has water modeling been provided with your rental request? Yes ☒ No ☐

If yes, include as **Attachment 3G**. Otherwise please explain why modeling was not provided:
Please see attachment 3G.

Rental applications that require modeling will be returned if modeling is not provided.

- H. Specify the proposed beneficial use: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Municipal
☐ Groundwater Recharge ☐ Mining ☐ Stockwater ☐ Other: _____

- I. Refer to the map you created in item 2 and specify below the places you propose to use water. If for irrigation, specify the number of acres to be irrigated per ¼ ¼ tract. Otherwise indicate usage by marking the ¼ ¼ tracts with the first letter of your proposed use identified above:

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	41E	24	4.0	3.4	3.1	4.0	4.5	3.6	3.7	4.6	2.5	2.4	2.6	2.1	2.7	2.8	2.3	3.2	51.5
The entry in this grid must match the map from item 2 on the application.																			Total Acres (for irrigation)
																			51.5

- J. For irrigation uses, do you propose a water diversion rate greater than 0.02 cfs/acre? N/A ☐ Yes ☐ No ☒
If yes, explain the justification for this rate of flow and attach any supporting documents as **Attachment 3J**:

- K. Do you own the land at the proposed rental place of use (POU)? Yes ☒ No ☐
If no, attach documentation from the POU owner/operator confirming your authorization to use the POU and label it **Attachment 3K**.

- L. Describe your water distribution system and how water will be delivered from the POD(s) to the proposed POU(s):
Wells with pumps deliver water to mainlines, which convey water to center pivots. If the rental is approved, end-gun valves and booster pumps will be turned on to irrigate the proposed POU.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

M. List all other water rights and sources of water at the rental place of use for the same purpose and explain why additional water is required. Include privately owned water rights and water received from a municipal supplier, an irrigation district, a canal company, or any other water deliver entity:

The pivots are covered under existing water rights 22-7167A, 22-7052A, 22-2271D, 22-7439, 22-14082, 22-14083 and 22-14084. The water rights do not cover the end guns.

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

Yes ☒ No ☐

If yes, specify below the water rights you are requesting to rent. Otherwise continue to Section 5 of this application form.

Please note: Diversion rates and volumes to be rented from a leased water right must be proportionate to the per acre diversion rates and per acre volume limits of the water right leased to the Bank. Applicants should query a water right's rental availability by reviewing active lease and rental documents, searchable via IDWR's website, to ensure all elements of a water right remain available in sufficient quantity to satisfy a rental request.

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany the rental request. **Rental requests for water rights not yet leased to the Bank will be returned if companion lease applications are not provided with the rental request.**

For leased rights with combined limits, applicants should request to rent against the combined limit diversion rate, volume or acre limits.

Elements of Water Rights Leased to the Bank (Contract Details)								Leased totals minus water actively engaged in rental agreement equals rental availability	Rental Request		
Water Right Number	Nature of Use	Water Source	Rate (CFS)	Volume (AF)	Acres (AC)	Start (year)	End (year)		Rate (CFS)	Vol. (AF)	Acres (AC)
22-2175B	Irrigation	Groundwater	0.62	136.5	39	2015	2015		0.62	136.5	39
22-7336	Irrigation	Groundwater	0.25	43.8	12.5	2010	2015		0.25	43.8	12.5
Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre that have been leased to the Water Supply Bank								TOTAL	0.87	180.3	51.5
									CFS	AF	AC

Attach multiple copies of this page if space above is insufficient to list all water rights requested to be rented on this application.

B. If water right conditions, combined limits, or the sum of all water right elements being requested provide an unconventional duty of water (e.g., an unusually low rate per acre or volume per acre for irrigation use), explain how your proposed rental will sufficiently accomplish your intended purposes. Attach a separate page if space is insufficient and label it **Attachment 4B**: The proposed diversion rate per acre is the average of the rented rights. It was deemed adequate for those rights at the time of licensing and is within the range generally observed in the area.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- C. Does your rental request propose to change the nature of use for any water right(s) being requested? Yes ☐ No ☒
If yes, explain how the water right(s) will be converted to new uses. Include the historic, consumptive use amounts for the water right being rented, as well as the new consumptive use amount for your proposed beneficial use. Attach a separate page if space is insufficient and label it Attachment 4C:

5. ADDITIONAL INFORMATION

- A. Is this the first time that rental water is being requested for this purpose at the rental place of use? Yes ☐ No ☒

If no, list previous rental requests/agreements and explain why you have not secured a permanent water right for your needs:
In 2014, portions of water rights 22-7336, 22-13177, 22-13149 and 22-13121 were rented for this use. We are still looking for a water right to purchase and transfer for this use.

- B. Have you or do you intend to submit an application for permit or transfer proposing a similar use as this rental? Yes ☐ No ☒

If yes, describe:

- C. Was this rental application submitted in response to a Notice of Violation (NOV) or a pending NOV? Yes ☐ No ☒

If yes, describe the date and location of the NOV.

DECLARATION

I hereby assert that the information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval. I understand that if this rental application is approved, it will be subject to the provisions of Section 42-1766, Idaho Code and all applicable state and federal laws.

Signature of Applicant

Printed Name of Applicant

Date

Signature of Representative

Printed Name of Representative

Date

Mail to:

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Attachment 2: Map of Proposed PODs and POU (From 2014 Water Supply Bank rental documents)

Attachment 3G: Modeling for Amended Water-Supply Bank Application Ray Pocock, Spring 2015

Introduction

Per request of IDWR, the Water Supply Bank and associated modeling have been amended. This attachment describes modeling performed using the new ETRAN3.2 transfer tool, just released by IDWR. This tool uses ESPAM2.1, the newest version of the model deployed by IDWR.

Modeling Procedure

Because there are more Points of Diversion (PODs) involved in this reach than the tool accommodates, one run was performed for each POD. Printouts of the input sheets are attached as Appendix 3G-1. Note that actual acre feet per trimester were used, but not displayed as the formatting of the tool is set to whole acre feet per trimester. Values used are:

- North "To" Well: 45.075 acre feet per trimester for two trimesters, or 90.15 acre feet total;
- South "To" Well: 45.075 acre feet per trimester for two trimesters, or 90.15 acre feet total;
- The North and South "To" wells together represent 180.3 acre feet total;
- Rented right 22-2175B: 68.25 acre feet per trimester for two trimesters, or 136.5 acre feet total;
- Rented right 22-7336: 21.9 acre feet per trimester for two trimesters, or 43.8 acre feet total;
- Rented rights 22-2175B and 22-7336 together represent 180.3 acre feet total.

In all cases, cell location and modeled volume are entered in the "To Well" section of the spreadsheet, as positive numbers. The "From" wells in each worksheet are unused.

Outputs of the four model runs are combined in a summary spreadsheet. Appendix 3G-2 provides a screenshot of the summary sheet, showing the cell calculation contents for the first summary cell. The two "To Wells" are added as positive numbers, with the rented rights entered as negative numbers. Following the convention of the transfer tool, this means that positive numbers indicate depletion of the reach and negative numbers indicate net benefit to the reach. All the cell entries in the "Summary" worksheet follow the same pattern as the cell illustrated in the screenshot.

The screenshot also provides the structure of the spreadsheet file, showing all the worksheets in the file. Printouts of each worksheet in the file comprise the balance of Appendix 3G-2.

Modeling Results

The "Summary" worksheet page of Appendix 3G-2 shows that all reaches are within the two acre feet per trimester *de minimus* limit for all reaches and trimesters, for the full 150-year modeling period provided by the tool.

Attachments:

Appendix 3G-1: Printouts of Transfer Tool input sheets.

Appendix 3G-2: Screenshot and printouts of output summary spreadsheet.

STATE OF IDAHO
WATER RESOURCE BOARD

RECEIVED

FEB 20 2015

DEPARTMENT OF
WATER RESOURCESAPPLICATION TO RENT WATER
FROM THE BOARD'S WATER SUPPLY BANKApplicant Name: Ray Pocock

Is this application being submitted with a lease application as a lease/rental package?

Yes ☐ No ☒

An *Application to Rent Water from the Board's Water Supply Bank* must be completed in accordance with the minimum requirement checklist below to be acceptable for processing by the Idaho Department of Water Resources (IDWR). This checklist is part of the rental application and must be included with the rental application. **Applications that do not meet the minimum requirements will not be placed in the processing queue and may be returned until all minimum requirements have been met.**

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One rental application per beneficial use of water. One rental application can be submitted if you propose to rent water from multiple sources. For multiple beneficial uses of water, individual rental requests should be submitted for each unique beneficial use of water.

For additional instructions on completing a rental application, visit the Department's website at www.idwr.idaho.gov.

Checked All Items as Either Attached (Yes) or Not Applicable (N/A)

YES

- ☒ Completed *Application to Rent Water from the Board's Water Supply Bank*

Attachment N/A YES

- 2 ☒ A map showing the proposed point(s) of diversion, place(s) of use, and water diversion and distribution systems proposed to be used with your rental request
- 3A ☒ ☐ Detailed information on a proposed use of rental water
- 3E ☒ ☐ Authorization from the owner/operator of the rental point(s) of diversion
- 3G ☐ ☒ Water modeling to account for the impacts of the rental request
- 3J ☒ ☐ Documents justifying a need to rent water for irrigation at a rate of flow greater than 0.02 cfs/acre
- 3K ☒ ☐ Authorization from the owner/operator of the property at the proposed rental place(s) of use
- 4B ☒ ☐ Explanation of how the rental water will sufficiently accomplish your rental purposes
- 4C ☒ ☐ Explanation of consumptive use amounts for water rights experiencing a change in nature of use

Department Use Only – Proposed Water Right(s)

22-2175B

22-7336

22-13814

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

1. CONTACT INFORMATION

A. Applicant Ray Pocock

Mailing Address 2964 N 5000 E, Sugar City, ID 83448

Email Address rayp@ida.net

Phone Number 208-201-2101

B. Is this application being completed by an authorized representative on behalf of the applicant? Yes ☒ No ☐

If yes, representatives (includes company employees if the applicant is a corporation, as well as legal counsel or consultants) should provide their information below if they desire to be included on correspondence with the rental applicant.

Representative Bryce A. Contor

Professional Title Senior Hydrologist

Organization Rocky Mtn. Env. Associates, Inc.

Relationship to Applicant Consultant

Mailing Address 482 Constitution Way Suite 303, Idaho Falls, ID 83402

Email Address bcontor@rockymountainenvironmental.com

Phone Number 208-524-2353

2. MAP

Create a map of the proposed point(s) of diversion, place(s) of use, and water diversion, delivery and distribution systems. Make sure the place of use is outlined with an obvious, bolded line. For irrigation purposes, note that the place of use outlined on your map cannot exceed the number of acres you are proposing to rent. Attach the map to this application and label it **Attachment 2**.

3. DESCRIPTION OF PROPOSED USE FOR RENTAL WATER

A. Describe the purpose of your rental request. Include any anticipated rates of water application, water use practices or number of stock (if any). If the proposed use is not for irrigation, please provide a detailed description of the proposed use and how you determined the amount of rental water required. Attach additional sheets if required and label it **Attachment 3A**:

This is for irrigation of end guns on four center pivots in 06N 41E 24. The pivots are covered under existing water rights 22-7167A, 22-7052A, 22-2271D, 22-7439, 22-14082, 22-14083 and 22-14084. The water rights do not cover the end guns. The water will be diverted from the same Points of Diversion as the existing rights.

B. Enter the desired and/or minimum necessary rates of flow, volume, or irrigable acres requested for your rental purposes:

Desired Rate (Cubic Feet/Second)	Desired Volume (Acre-Foot)	Minimum Rate* (Cubic Feet/Second)	Minimum Volume* (Acre-Foot)	Acres (if applicable) (Acre)
1.14 CFS	113.8 AF	0.80 CFS	113.8 AF	57 AC

Sometimes water rights available for rent provide an exceptionally low rate per acre and/or low volume per acre. This section is meant to establish an acceptable range of water sufficient for your proposed water use. Please see question 4B and complete if necessary.

C. Enter the proposed start date and latest possible start date for using rental water. Also provide the number of years you would like to rent water:

Proposed Start Date (month/day/year)	Latest Possible Start (month/day/year)	* Proposed Rental Duration (Max 5 Years)	** For multi-year rentals, indicate whether you desire to rent water for remaining years if a rental request cannot be approved for the first year?	
4/1/2015	5/1/2015	9 months	☐ Yes, approve rental for all remaining future years.	☐ No, return rental request if first year is unapprovable.

* The number of years permissible for a rental is subject to the lease contract duration for the water right(s) being rented.

** Subject to the availability of rentable water. A multi-year rental that cannot begin during the first year requested may be approved for some or all remaining years, depending on availability. Rental requests will be returned if no water is available to rent in the first and/or subsequent years of the rental request.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- D. Refer to the map you created in item 2 and specify the location of the point(s) of diversion (POD) from which rental water is proposed to be diverted:

Water Source	TWP	RGE	SEC	¼	¼	¼	County	Other water rights for the same purpose diverted from this POD
Ground Water	06N	41E	24	SW	SW	NE	Madison	please see 3A above
Ground Water	06N	41E	24	SE	SE	SW	Madison	please see 3A above

The entry in this grid must match the map from item 2 on the application.

- E. Do you own and/or possess the authority to divert water from the above POD(s)? Yes ☒ No ☐
If no, provide documentation from the owner/operator confirming your authorization to use the POD(s) and label it **Attachment 3E**.

- F. Do any POD(s) identified in Question 3D divert from a water source that may require water modeling? Yes ☒ No ☐
Refer to the Water Modeling Requirements Information Sheet to determine if a rental POD may require water modeling.

- G. Has water modeling been provided with your rental request? Yes ☒ No ☐
If yes, include as **Attachment 3G**. Otherwise please explain why modeling was not provided:
Please see attachment 3G.

Rental applications that require modeling will be returned if modeling is not provided.

- H. Specify the proposed beneficial use: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Municipal
☐ Groundwater Recharge ☐ Mining ☐ Stockwater ☐ Other: _____

- I. Refer to the map you created in item 2 and specify below the places you propose to use water. If for irrigation, specify the number of acres to be irrigated per ¼ ¼ tract. Otherwise indicate usage by marking the ¼ ¼ tracts with the first letter of your proposed use identified above:

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	41E	24	4.5	3.9	3.6	4.5	5.0	4.1	4.2	5.1	3.0	2.9	2.6	2.6	3.2	2.8	2.3	2.7	57

The entry in this grid must match the map from item 2 on the application.

Total Acres (for irrigation)

57

- J. For irrigation uses, do you propose a water diversion rate greater than 0.02 cfs/acre? N/A ☐ Yes ☐ No ☒
If yes, explain the justification for this rate of flow and attach any supporting documents as **Attachment 3J**:

- K. Do you own the land at the proposed rental place of use (POU)? Yes ☒ No ☐
If no, attach documentation from the POU owner/operator confirming your authorization to use the POU and label it **Attachment 3K**.

- L. Describe your water distribution system and how water will be delivered from the POD(s) to the proposed POU(s):
Wells with pumps deliver water to mainlines, which convey water to center pivots. If the rental is approved, end-gun valves and booster pumps will be turned on to irrigate the proposed POU.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

M. List all other water rights and sources of water at the rental place of use for the same purpose and explain why additional water is required. Include privately owned water rights and water received from a municipal supplier, an irrigation district, a canal company, or any other water deliver entity:

The pivots are covered under existing water rights 22-7167A, 22-7052A, 22-2271D, 22-7439, 22-14082, 22-14083 and 22-14084. The water rights do not cover the end guns.

4. RENTAL REQUESTS FOR SPECIFIC WATER RIGHTS

A. Are you requesting to rent specific water rights?

Yes ☒ No ☐

If yes, specify below the water rights you are requesting to rent. Otherwise continue to Section 5 of this application form.

Please note: Diversion rates and volumes to be rented from a leased water right must be proportionate to the per acre diversion rates and per acre volume limits of the water right leased to the Bank. Applicants should query a water right's rental availability by reviewing active lease and rental documents, searchable via [IDWR's website](#), to ensure all elements of a water right remain available in sufficient quantity to satisfy a rental request.

Water rights identified below must either already be leased to the Bank or a lease proposal should accompany the rental request. **Rental requests for water rights not yet leased to the Bank will be returned if companion lease applications are not provided with the rental request.**

For leased rights with combined limits, applicants should request to rent against the combined limit diversion rate, volume or acre limits.

Elements of Water Rights Leased to the Bank (Contract Details)								Leased totals minus water actively engaged in rental agreement equals rental availability	Rental Request		
Water Right Number	Nature of Use	Water Source	Rate (CFS)	Volume (AF)	Acres (AC)	Start (year)	End (year)		Rate (CFS)	Vol. (AF)	Acres (AC)
22-2175B	Irrigation	Groundwater	0.62	136.5	39	2015	2015		0.62	136.5	39
22-7336	Irrigation	Groundwater	0.25	43.8	12.5	2010	2015		0.25	43.8	12.5
22-13814	Irrigation	Groundwater	0.33	79.6	37.5	2014	2018		0.14	32.9	15.5
Applicants must ensure the requested rate per acre and volume per acre do not exceed the rate per acre and volume per acre that have been leased to the Water Supply Bank								TOTAL	1.01 CFS	213.2 AF	57 AC

Attach multiple copies of this page if space above is insufficient to list all water rights requested to be rented on this application.

B. If water right conditions, combined limits, or the sum of all water right elements being requested provide an unconventional duty of water (e.g., an unusually low rate per acre or volume per acre for irrigation use), explain how your proposed rental will sufficiently accomplish your intended purposes. Attach a separate page if space is insufficient and label it **Attachment 4B**:

The rate per acre of 0.018 cfs is typical of many irrigation systems in this area and has proven to be adequate. This works out to just over 115 gallons per minute for each of four end guns. Appropriate nozzles can be selected to match this supply.

STATE OF IDAHO
WATER RESOURCE BOARD

Application to Rent Water (Continued)

- C. Does your rental request propose to change the nature of use for any water right(s) being requested? Yes ☐ No ☒
If yes, explain how the water right(s) will be converted to new uses. Include the historic, consumptive use amounts for the water right being rented, as well as the new consumptive use amount for your proposed beneficial use. Attach a separate page if space is insufficient and label it **Attachment 4C**:

5. ADDITIONAL INFORMATION

- A. Is this the first time that rental water is being requested for this purpose at the rental place of use? Yes ☐ No ☒
If no, list previous rental requests/agreements and explain why you have not secured a permanent water right for your needs:
In 2014, portions of water rights 22-7336, 22-13177, 22-13149 and 22-13121 were rented for this use. We are still
looking for a water right to purchase and transfer for this use.

- B. Have you or do you intend to submit an application for permit or transfer proposing a similar use as this rental? Yes ☐ No ☒
If yes, describe:

- C. Was this rental application submitted in response to a Notice of Violation (NOV) or a pending NOV? Yes ☐ No ☒
If yes, describe the date and location of the NOV.

DECLARATION

I hereby assert that the information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval. I understand that if this rental application is approved, it will be subject to the provisions of Section 42-1766, Idaho Code and all applicable state and federal laws.

Signature of Applicant

Printed Name of Applicant

Date

Signature of Representative

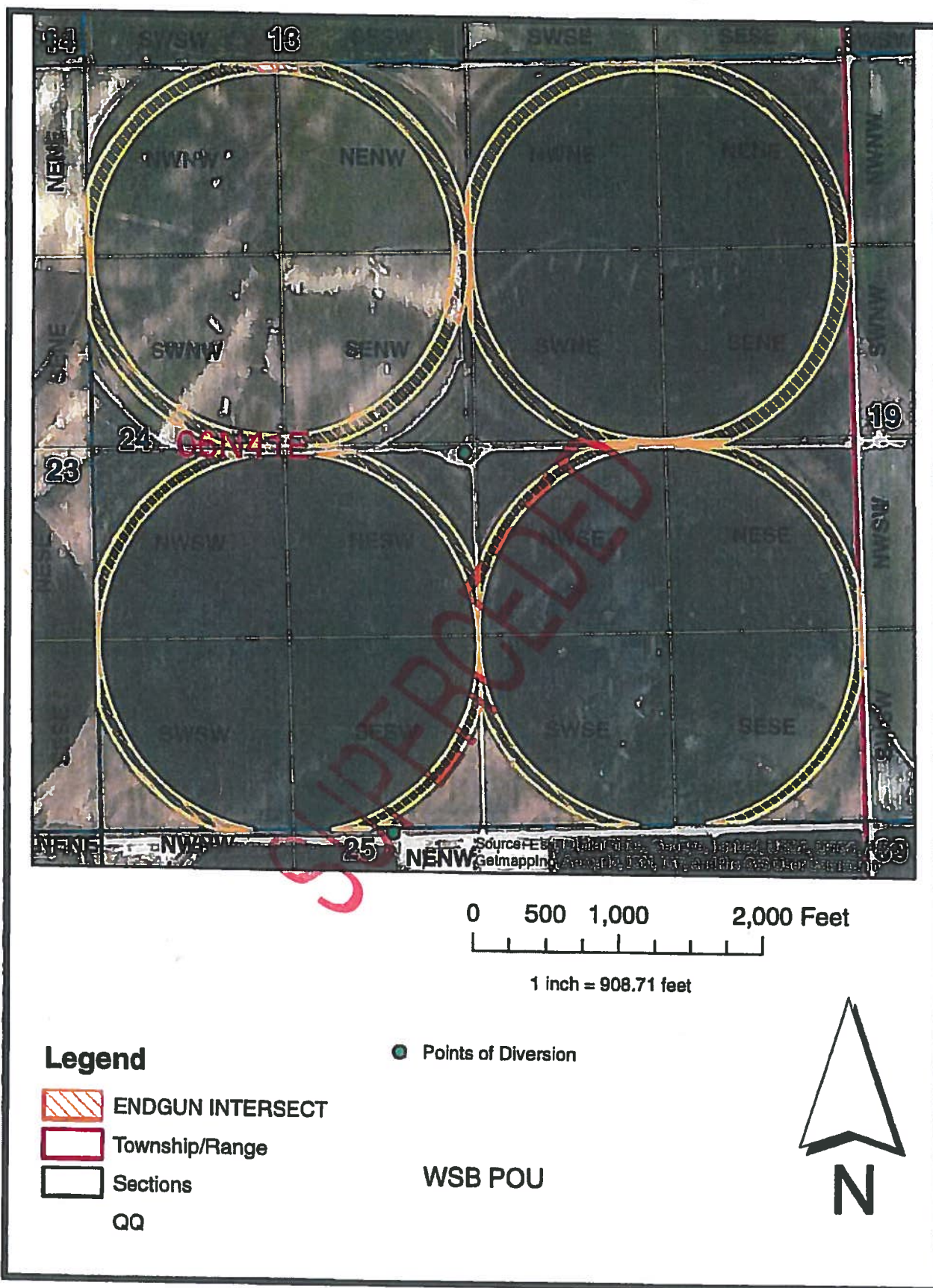
Printed Name of Representative

Date

Mail to:

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Attachment 2: Map of Proposed PODs and POU (From 2014 Water Supply Bank rental documents)



SCANNED
MAR 10 2014

Attachment 3G: Aquifer Modeling

Ray Pocock Water Supply Bank Rental Application

Background

Mr. Ray Pocock is applying for a Water Supply Bank Rental for irrigation in the year-2015 irrigation season. It is our understanding that Water Supply Bank transactions are governed by the same criteria as groundwater-right transfers:

1. The foregone pumping (Rented or "From" rights) must exceed in annual volume the proposed use to be supported by the Rental;
2. By spring reach or river reach, a de minimus negative effect of no more than two acre feet per trimester (four month modeled period) is acceptable, provided Criterion 1 is met;
3. Negative effects greater than two acre feet per trimester are acceptable, provided that they do not exceed in magnitude 10% of the modeled effects of the Rented rights, and that Criterion 1 is met;
4. If negative effects are modeled which cannot be addressed by Criterion 2 or Criterion 3, mitigation must fully address all modeled negative effects for that reach, down to a level of zero net effect upon the reach.

The application shows that Criterion 1 is met; 213.2 acre feet are proposed to be rented to sustain pumping of 113.8 acre feet. Per communication with Mr. Remington Buyer of Idaho Department of Water Resources (IDWR), aquifer modeling is required to evaluate the other criteria. Modeling will show the estimated effect upon modeled springs and river reaches, from pumping at the Rental "To" location. It will also show the estimated benefit to the same springs and reaches from foregone extraction of the rented water rights.

Modeling Procedure

The proposed Pocock rental was first evaluated using ESPAM1.1 as embodied in the Water Rights Transfer Tool. The proposed Point of Diversion (POD) and the PODs of all but one of the rental rights are between the Teton River and the South Fork of the Snake River. Past experience has shown that the ESPAM1.1 model offers some challenges in this area, due to geologic features of the Rexburg Bench not explicitly represented in the model. Using ESPAM1.1 for the Pocock rental, it was found necessary to rely upon a geological analysis first presented to IDWR in support of Water Right Permit Application 22-13695. The analysis refines and clarifies the effect of some of the geological features not represented. However, it appears from the permit application record that IDWR's preference would have been to utilize ESPAM2.1, which was not yet deployed at the time of analysis. ESPAM2.1 is now posted online by IDWR and has been used in administrative proceedings. It has been represented by IDWR as the best available science. Therefore, the Pocock rental was evaluated using ESPAM2.1.

The Pocock rental was evaluated by dividing the stress into four equal parts, applying these to the first four monthly stress periods of the ESPAM2.1 model runs. This was done to correspond to the use of four-month trimesters in ESPAM1.1. While ESPAM2.1 could have been operated to show the net effect

in a single model run, each part of the proposed transaction was modeled separately to aid understanding of the effects of each. The proposed rental "To" location was modeled by applying the acre-foot rental volume as a negative number at the model cell containing the POD. The "From" well locations were modeled by applying the rented volumes as positive numbers at the cells containing the water-right points of diversion. By this convention, negative numbers in the output mean water-supply detriment to the spring or river reach, while positive numbers mean a water-supply benefit. Appendix I contains excerpts from the modeling-file input data.

One of the proposed rental rights, 22-13814, has a Point of Diversion located outside the model boundary. It was not included in the modeling, but its expected hydrologic benefits are explored conceptually below.

Conceptual Discussion of Hydrologic Effects of 22-13814

The proposed rental is for a single year, 2015. All the proposed pumping under this rental will occur in 2015. However, because of transit time through the aquifer, effects of pumping will *not* all be expressed in 2015. As shown below, meaning effects will be expressed at the river in 2016 and 2017, even though *no pumping* under this rental will occur in those years. Hence, mitigation that only benefited the river in 2015 would be inappropriate; mitigation must be found whose benefits also extend into following years.

The POD for 22-13814 is outside the model boundary, within Teton Basin. The foregone pumping for irrigation season 2015 will create an immediate effect to the local Teton Valley aquifer within 2015. Those effects will propagate to the Teton River and then to the Henrys Fork. However, those benefits will not propagate immediately; as with the effects within the model domain, there will likewise be some delay in expression of the benefits of foregone pumping of 22-13814. Hence, even though the foregone pumping under this rental will all take place in 2015, some of the water-supply benefits to the Henrys Fork will be expressed in late 2015, in 2016 and perhaps in 2017. Conceptually, this is compatible with the need for benefits extending beyond 2015.

A more precise estimate of the timing of propagation to the Teton River could be obtained using analytical methods. However, modeling results presented below show that even without the inclusion of 22-13814, the criteria described above are met regarding modeled effects to the springs and river. Water Right 22-13814 is included in the rental solely to accumulate the full 57 acres of needed irrigation authorization.

Modeling Results

Appendix II provides summary graphic output showing the net modeled effect, and the effect of each component piece of the modeling. All the reaches (nearly 60 in total) below Milner were combined for graphing purposes. Appendix III provides an excerpt of reach-by-reach and month-by-month combined output¹ from ESPAM2.1. Careful inspection of Appendix III shows that for all reaches except Ashton to Rexburg, the ESPAM2.1 model estimates that the net effect of the proposed Water Supply Bank transaction is positive; that is, that it benefits water supply in the reach. For the Ashton to Rexburg reach, modeling estimates that there will be positive effect up to 1.8 acre feet per month in the year of

¹ Individual modeling results are available from RMEA upon request.

rental, but small negative effects of up to 0.02705 acre feet per month in the second and third years. Four times 0.02705 provides a trimester-equivalent value of 0.1082 acre feet per trimester.

Because right 22-13814 is included in the rental but not in the modeling, modeling will tend to under-estimate benefits and over-estimate negative effects.

We note that the ESPAM1.1 model and Transfer Tool represented the Near Blackfoot to Neeley reach and the Neeley to Minidoka reach separately. ESPAM2.1 combines these into a single reach, the Near Blackfoot to Minidoka reach. Lyle Swank, Watermaster for Water District 01, is responsible for distribution and administration of water rights in this reach. Mr. Swank supported this change in Eastern Snake Hydrologic Modeling Committee meetings, based upon his understanding of imprecision in calculated gains in the Neeley to Minidoka reach, and his administration of water rights. The modeled effect of this proposed transaction is always positive or zero for this combined reach.

Conclusion

The first criterion of a rental is met; the rented water rights exceed the projected pumping by nearly 100 acre feet. ESPAM2.1 estimates that this benefit will accrue primarily to the Heise to Shelley reach in the year of rental, with some residual to that reach in following years. The Ashton to Rexburg reach is estimated to receive a smaller accrual in the year of rental.

The only estimated negative effects are also in the Ashton to Rexburg reach, but in the second and third years. The maximum estimated negative effect of 0.1082 acre feet per trimester is approximately 1/20 of the de minimus threshold, and is further offset by benefits accruing from the rental of 22-13814. The second criterion is also met.

Since the second criterion is met, the third and fourth criteria do not come into play.

ESPAM2.1 modeling indicates that the proposed rental provides a net benefit to the aquifer and meets the criteria for groundwater water-right transfers. Reach accruals from rental of 22-13814 (not modeled) will provide additional benefits, beyond those provided by the rights that were modeled.

Appendices:

Appendix I: Excerpt of Modeling Echo of Input Data (4 of 79 pages)

Appendix II: Graphic Presentation of Model Output (2 pages)

Appendix III: Excerpt of Tabular Compilation of Combined Model Output (17 of 673 pages)

Appendix I: Modeling Echo of Input Data

Each input-data echo is comprised of 26 pages. All entries are zero after page one. Appendix I contains only the first page for each input data set. The full file is available from Rocky Mountain Environmental Associates, Inc. (RMEA) upon request.

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Response files:									
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Echo of stress file:									
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Col	192								
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S3	-28.45								
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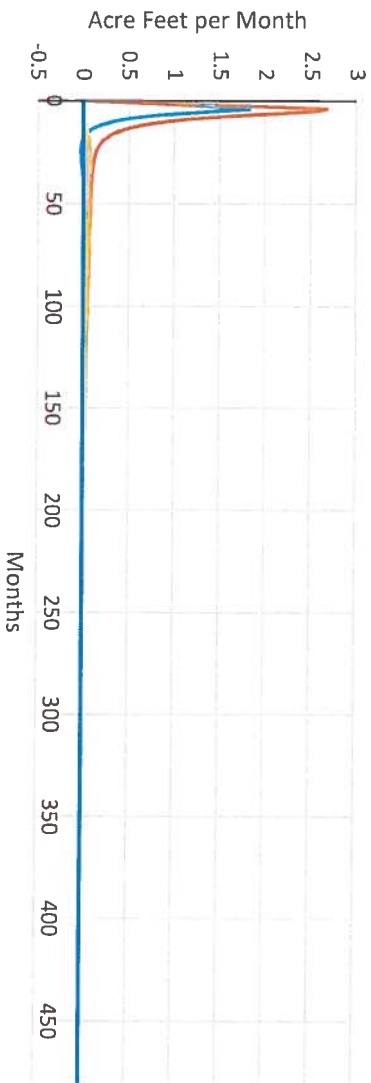
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Echo of stress file:									
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Col	182								
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S3	34.125								
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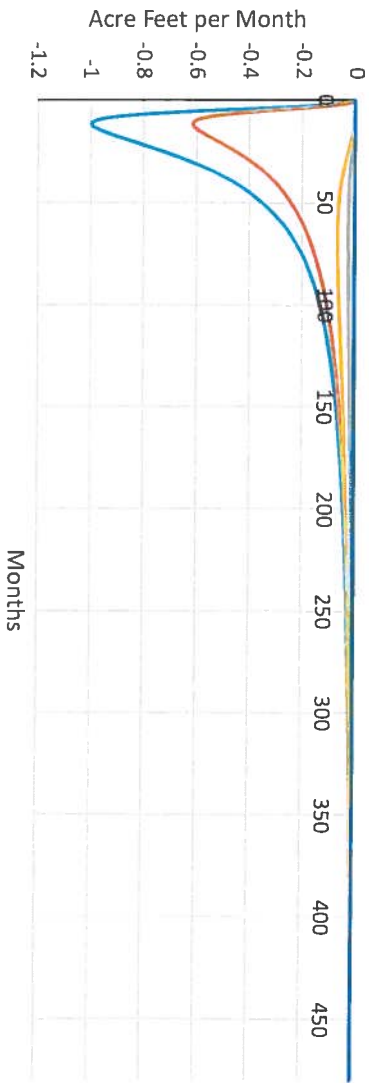
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S4	10.95				
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S10	0				
S11	0				
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S49	0				
S50	0				
S51	0				
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S57	0				

Appendix II: Graphic Presentation of Model Output

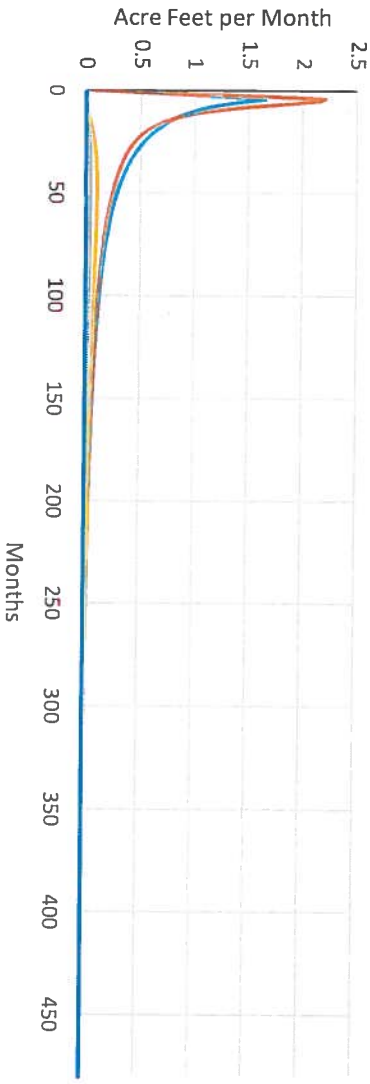
COMBINED EFFECT ESPAM2.1 Modeling



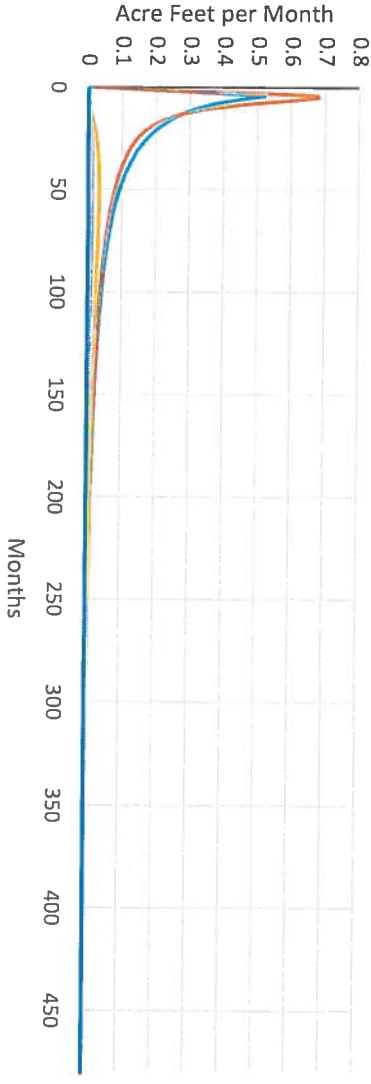
POCOCK "TO" WELL ESPAM2.1 Modeling 113.8 Acre Feet



22-2175B ESPAM2.1 Modeling 136.5 Acre Feet



22-7336 ESPAM2.1 Modeling 43.8 Acre Feet



Appendix III: Tabular Compilation of Combined Model Output

The full file is 672 pages, plus cover sheet, representing 3600 months (300 years) of output. Only the first 16 pages are produced here, representing 85 months (7.1 years) of output. All occurrences of negative effects are represented within the first 7.1 years. The sheets not produced simply show a long time series of decreasing positive but small effects to all reaches. The full spreadsheet is available upon request from RMEA.

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MIN x 4	0	0	0	0	0	0	0	0
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2	4.11E-15	1.08E-14	2.93E-14	3.35E-14	5.37E-15	1.12E-13	4.61E-16	1.92E-13
3	3.29E-14	7.72E-14	2.09E-13	2.39E-13	3.83E-14	7.98E-13	3.29E-15	1.37E-12
4	1.8E-13	3.81E-13	1.03E-12	1.18E-12	1.88E-13	3.92E-12	1.62E-14	6.72E-12
5	7.5E-13	1.42E-12	3.84E-12	4.39E-12	7.01E-13	1.46E-11	6.02E-14	2.5E-11
6	2.58E-12	4.42E-12	1.19E-11	1.36E-11	2.18E-12	4.53E-11	1.87E-13	7.76E-11
7	7.66E-12	1.2E-11	3.23E-11	3.69E-11	5.89E-12	1.23E-10	5.06E-13	2.1E-10
8	2.02E-11	2.88E-11	7.77E-11	8.87E-11	1.42E-11	2.95E-10	1.22E-12	5.05E-10
9	4.79E-11	6.26E-11	1.68E-10	1.92E-10	3.07E-11	6.39E-10	2.63E-12	1.09E-09
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11	2.08E-10	2.27E-10	6.1E-10	6.96E-10	1.11E-10	2.31E-09	9.53E-12	3.96E-09
12	3.88E-10	3.9E-10	1.04E-09	1.19E-09	1.9E-10	3.96E-09	1.63E-11	6.77E-09
13	6.82E-10	6.31E-10	1.69E-09	1.93E-09	3.07E-10	6.4E-09	2.63E-11	1.09E-08
14	1.14E-09	9.7E-10	2.59E-09	2.96E-09	4.72E-10	9.82E-09	4.04E-11	1.68E-08
15	1.8E-09	1.43E-09	3.82E-09	4.35E-09	6.94E-10	1.45E-08	5.95E-11	2.47E-08
16	2.75E-09	2.03E-09	5.41E-09	6.17E-09	9.84E-10	2.05E-08	8.43E-11	3.5E-08
17	4.04E-09	2.79E-09	7.43E-09	8.48E-09	1.35E-09	2.81E-08	1.16E-10	4.81E-08
18	5.74E-09	3.72E-09	9.92E-09	1.13E-08	1.8E-09	3.75E-08	1.54E-10	6.41E-08
19	7.94E-09	4.85E-09	1.29E-08	1.47E-08	2.35E-09	4.89E-08	2.01E-10	8.34E-08
20	1.07E-08	6.18E-09	1.64E-08	1.87E-08	2.99E-09	6.22E-08	2.56E-10	1.06E-07
21	1.41E-08	7.72E-09	2.05E-08	2.34E-08	3.73E-09	7.76E-08	3.19E-10	1.33E-07
22	1.81E-08	9.47E-09	2.52E-08	2.87E-08	4.57E-09	9.51E-08	3.91E-10	1.62E-07
23	2.3E-08	1.14E-08	3.04E-08	3.46E-08	5.51E-09	1.15E-07	4.72E-10	1.96E-07
24	2.86E-08	1.36E-08	3.61E-08	4.12E-08	6.56E-09	1.37E-07	5.62E-10	2.33E-07
25	3.5E-08	1.6E-08	4.25E-08	4.84E-08	7.7E-09	1.6E-07	6.6E-10	2.74E-07
26	4.23E-08	1.86E-08	4.93E-08	5.62E-08	8.94E-09	1.86E-07	7.66E-10	3.18E-07
27	5.05E-08	2.13E-08	5.66E-08	6.45E-08	1.03E-08	2.14E-07	8.79E-10	3.65E-07
28	5.95E-08	2.43E-08	6.44E-08	7.33E-08	1.17E-08	2.43E-07	1E-09	4.15E-07
29	6.94E-08	2.74E-08	7.25E-08	8.27E-08	1.32E-08	2.74E-07	1.13E-09	4.67E-07
30	8.02E-08	3.06E-08	8.11E-08	9.24E-08	1.47E-08	3.06E-07	1.26E-09	5.22E-07
31	9.18E-08	3.4E-08	9E-08	1.03E-07	1.63E-08	3.4E-07	1.4E-09	5.8E-07
32	1.04E-07	3.75E-08	9.92E-08	1.13E-07	1.8E-08	3.74E-07	1.54E-09	6.39E-07
33	1.17E-07	4.1E-08	1.09E-07	1.24E-07	1.97E-08	4.1E-07	1.69E-09	6.99E-07
34	1.31E-07	4.47E-08	1.18E-07	1.35E-07	2.14E-08	4.46E-07	1.83E-09	7.61E-07
35	1.46E-07	4.84E-08	1.28E-07	1.46E-07	2.32E-08	4.83E-07	1.99E-09	8.24E-07
36	1.61E-07	5.21E-08	1.38E-07	1.57E-07	2.5E-08	5.2E-07	2.14E-09	8.88E-07
37	1.76E-07	5.59E-08	1.48E-07	1.68E-07	2.68E-08	5.58E-07	2.29E-09	9.52E-07
38	1.93E-07	5.97E-08	1.58E-07	1.8E-07	2.86E-08	5.96E-07	2.45E-09	1.02E-06
39	2.09E-07	6.35E-08	1.68E-07	1.91E-07	3.04E-08	6.33E-07	2.6E-09	1.08E-06
40	2.26E-07	6.73E-08	1.78E-07	2.03E-07	3.22E-08	6.71E-07	2.76E-09	1.14E-06
41	2.43E-07	7.11E-08	1.88E-07	2.14E-07	3.4E-08	7.08E-07	2.91E-09	1.21E-06
42	2.61E-07	7.48E-08	1.98E-07	2.25E-07	3.58E-08	7.46E-07	3.07E-09	1.27E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D034014	D035014	D036014	MALAD	D037014	BIRCH	D038014	BIGSP
0	0	0	0	0	0	0	0	0
1	3.82E-14	6.13E-15	1.1E-14	1.8E-12	1.1E-14	4.84E-15	8.14E-14	6.16E-13
2	5.5E-13	8.67E-14	1.51E-13	2.54E-11	1.51E-13	6.65E-14	1.11E-12	8.39E-12
3	3.9E-12	6.08E-13	1.04E-12	1.78E-10	1.03E-12	4.55E-13	7.54E-12	5.69E-11
4	1.92E-11	2.95E-12	4.98E-12	8.59E-10	4.88E-12	2.16E-12	3.56E-11	2.68E-10
5	7.12E-11	1.09E-11	1.8E-11	3.14E-09	1.75E-11	7.76E-12	1.27E-10	9.59E-10
6	2.2E-10	3.34E-11	5.47E-11	9.6E-09	5.26E-11	2.34E-11	3.82E-10	2.87E-09
7	5.96E-10	8.98E-11	1.45E-10	2.57E-08	1.39E-10	6.17E-11	1E-09	7.53E-09
8	1.43E-09	2.14E-10	3.42E-10	6.08E-08	3.24E-10	1.44E-10	2.33E-09	1.75E-08
9	3.09E-09	4.6E-10	7.25E-10	1.3E-07	6.82E-10	3.04E-10	4.9E-09	3.67E-08
10	6.11E-09	9.03E-10	1.41E-09	2.53E-07	1.31E-09	5.85E-10	9.4E-09	7.04E-08
11	1.12E-08	1.64E-09	2.52E-09	4.58E-07	2.34E-09	1.04E-09	1.67E-08	1.25E-07
12	1.91E-08	2.79E-09	4.24E-09	7.73E-07	3.9E-09	1.74E-09	2.77E-08	2.07E-07
13	3.08E-08	4.47E-09	6.72E-09	1.23E-06	6.13E-09	2.74E-09	4.36E-08	3.25E-07
14	4.72E-08	6.82E-09	1.02E-08	1.87E-06	9.2E-09	4.11E-09	6.52E-08	4.86E-07
15	6.94E-08	9.98E-09	1.47E-08	2.72E-06	1.32E-08	5.92E-09	9.35E-08	6.97E-07
16	9.83E-08	1.41E-08	2.05E-08	3.82E-06	1.84E-08	8.22E-09	1.29E-07	9.65E-07
17	1.35E-07	1.92E-08	2.78E-08	5.19E-06	2.47E-08	1.11E-08	1.74E-07	1.29E-06
18	1.8E-07	2.55E-08	3.67E-08	6.87E-06	3.24E-08	1.45E-08	2.27E-07	1.69E-06
19	2.34E-07	3.31E-08	4.71E-08	8.86E-06	4.14E-08	1.86E-08	2.9E-07	2.16E-06
20	2.97E-07	4.2E-08	5.93E-08	1.12E-05	5.19E-08	2.33E-08	3.63E-07	2.7E-06
21	3.71E-07	5.22E-08	7.33E-08	1.39E-05	6.38E-08	2.86E-08	4.45E-07	3.31E-06
22	4.54E-07	6.37E-08	8.9E-08	1.69E-05	7.71E-08	3.45E-08	5.37E-07	3.99E-06
23	5.48E-07	7.67E-08	1.06E-07	2.02E-05	9.17E-08	4.11E-08	6.38E-07	4.74E-06
24	6.51E-07	9.09E-08	1.25E-07	2.39E-05	1.08E-07	4.83E-08	7.48E-07	5.55E-06
25	7.65E-07	1.06E-07	1.46E-07	2.79E-05	1.25E-07	5.6E-08	8.66E-07	6.43E-06
26	8.87E-07	1.23E-07	1.68E-07	3.22E-05	1.43E-07	6.43E-08	9.93E-07	7.36E-06
27	1.02E-06	1.41E-07	1.92E-07	3.68E-05	1.63E-07	7.3E-08	1.13E-06	8.35E-06
28	1.16E-06	1.6E-07	2.17E-07	4.16E-05	1.83E-07	8.22E-08	1.27E-06	9.38E-06
29	1.3E-06	1.8E-07	2.42E-07	4.67E-05	2.05E-07	9.17E-08	1.41E-06	1.04E-05
30	1.46E-06	2.01E-07	2.69E-07	5.19E-05	2.26E-07	1.02E-07	1.56E-06	1.16E-05
31	1.62E-06	2.22E-07	2.97E-07	5.73E-05	2.49E-07	1.12E-07	1.71E-06	1.27E-05
32	1.78E-06	2.45E-07	3.25E-07	6.29E-05	2.72E-07	1.22E-07	1.87E-06	1.38E-05
33	1.95E-06	2.67E-07	3.54E-07	6.86E-05	2.96E-07	1.32E-07	2.03E-06	1.5E-05
34	2.12E-06	2.91E-07	3.84E-07	7.44E-05	3.19E-07	1.43E-07	2.19E-06	1.62E-05
35	2.29E-06	3.14E-07	4.14E-07	8.02E-05	3.43E-07	1.54E-07	2.35E-06	1.74E-05
36	2.47E-06	3.38E-07	4.43E-07	8.61E-05	3.67E-07	1.64E-07	2.51E-06	1.86E-05
37	2.65E-06	3.62E-07	4.73E-07	9.2E-05	3.91E-07	1.75E-07	2.67E-06	1.98E-05
38	2.83E-06	3.85E-07	5.03E-07	9.79E-05	4.14E-07	1.86E-07	2.83E-06	2.09E-05
39	3E-06	4.09E-07	5.33E-07	0.000104	4.38E-07	1.96E-07	2.99E-06	2.21E-05
40	3.18E-06	4.33E-07	5.62E-07	0.00011	4.61E-07	2.07E-07	3.15E-06	2.33E-05
41	3.36E-06	4.57E-07	5.92E-07	0.000115	4.84E-07	2.17E-07	3.3E-06	2.44E-05
42	3.53E-06	4.8E-07	6.2E-07	0.000121	5.07E-07	2.27E-07	3.46E-06	2.55E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D040013	D040014	THREESP	TUCKER	RANGEN	NTLFSHH	THOUSAN	D045011
0	0	0	0	0	0	0	0	0
1	7.62E-15	7.25E-14	1.19E-12	1.08E-13	1.72E-12	1.13E-12	6.12E-12	1.65E-16
2	1.04E-13	9.87E-13	1.62E-11	1.48E-12	2.34E-11	1.54E-11	8.27E-11	2.2E-15
3	7.03E-13	6.69E-12	1.1E-10	9.98E-12	1.58E-10	1.04E-10	5.53E-10	1.46E-14
4	3.31E-12	3.15E-11	5.16E-10	4.69E-11	7.42E-10	4.88E-10	2.57E-09	6.73E-14
5	1.18E-11	1.13E-10	1.84E-09	1.67E-10	2.64E-09	1.73E-09	9.05E-09	2.34E-13
6	3.53E-11	3.36E-10	5.5E-09	4.98E-10	7.87E-09	5.16E-09	2.67E-08	6.87E-13
7	9.27E-11	8.83E-10	1.44E-08	1.3E-09	2.06E-08	1.35E-08	6.94E-08	1.77E-12
8	2.15E-10	2.05E-09	3.35E-08	3.02E-09	4.77E-08	3.12E-08	1.59E-07	4.04E-12
9	4.51E-10	4.3E-09	7.01E-08	6.31E-09	9.97E-08	6.51E-08	3.3E-07	8.3E-12
10	8.64E-10	8.23E-09	1.34E-07	1.21E-08	1.9E-07	1.24E-07	6.24E-07	1.56E-11
11	1.53E-09	1.46E-08	2.38E-07	2.13E-08	3.37E-07	2.19E-07	1.09E-06	2.72E-11
12	2.54E-09	2.42E-08	3.94E-07	3.53E-08	5.58E-07	3.63E-07	1.79E-06	4.43E-11
13	3.98E-09	3.8E-08	6.17E-07	5.52E-08	8.72E-07	5.67E-07	2.78E-06	6.83E-11
14	5.95E-09	5.67E-08	9.21E-07	8.22E-08	1.3E-06	8.43E-07	4.12E-06	1.01E-10
15	8.52E-09	8.12E-08	1.32E-06	1.18E-07	1.86E-06	1.21E-06	5.85E-06	1.42E-10
16	1.18E-08	1.12E-07	1.82E-06	1.62E-07	2.57E-06	1.66E-06	8.03E-06	1.94E-10
17	1.58E-08	1.51E-07	2.44E-06	2.17E-07	3.44E-06	2.22E-06	1.07E-05	2.57E-10
18	2.06E-08	1.97E-07	3.19E-06	2.83E-07	4.48E-06	2.9E-06	1.39E-05	3.32E-10
19	2.63E-08	2.51E-07	4.07E-06	3.61E-07	5.71E-06	3.69E-06	1.76E-05	4.2E-10
20	3.29E-08	3.13E-07	5.08E-06	4.5E-07	7.12E-06	4.59E-06	2.18E-05	5.19E-10
21	4.03E-08	3.84E-07	6.22E-06	5.51E-07	8.71E-06	5.62E-06	2.66E-05	6.31E-10
22	4.85E-08	4.63E-07	7.49E-06	6.63E-07	1.05E-05	6.76E-06	3.19E-05	7.54E-10
23	5.76E-08	5.5E-07	8.9E-06	7.87E-07	1.24E-05	8.02E-06	3.77E-05	8.89E-10
24	6.75E-08	6.44E-07	1.04E-05	9.21E-07	1.46E-05	9.38E-06	4.4E-05	1.03E-09
25	7.82E-08	7.46E-07	1.21E-05	1.06E-06	1.68E-05	1.08E-05	5.08E-05	1.19E-09
26	8.95E-08	8.54E-07	1.38E-05	1.22E-06	1.93E-05	1.24E-05	5.79E-05	1.35E-09
27	1.01E-07	9.68E-07	1.56E-05	1.38E-06	2.18E-05	1.4E-05	6.54E-05	1.53E-09
28	1.14E-07	1.09E-06	1.76E-05	1.55E-06	2.45E-05	1.57E-05	7.32E-05	1.71E-09
29	1.27E-07	1.21E-06	1.96E-05	1.72E-06	2.73E-05	1.75E-05	8.13E-05	1.89E-09
30	1.4E-07	1.34E-06	2.16E-05	1.9E-06	3.01E-05	1.93E-05	8.96E-05	2.08E-09
31	1.54E-07	1.47E-06	2.37E-05	2.09E-06	3.31E-05	2.12E-05	9.81E-05	2.27E-09
32	1.68E-07	1.6E-06	2.59E-05	2.28E-06	3.6E-05	2.31E-05	0.000107	2.47E-09
33	1.82E-07	1.74E-06	2.81E-05	2.47E-06	3.91E-05	2.51E-05	0.000116	2.67E-09
34	1.97E-07	1.88E-06	3.03E-05	2.66E-06	4.21E-05	2.7E-05	0.000124	2.87E-09
35	2.11E-07	2.01E-06	3.25E-05	2.85E-06	4.52E-05	2.9E-05	0.000133	3.06E-09
36	2.25E-07	2.15E-06	3.47E-05	3.05E-06	4.82E-05	3.09E-05	0.000142	3.26E-09
37	2.4E-07	2.29E-06	3.69E-05	3.24E-06	5.13E-05	3.29E-05	0.000151	3.46E-09
38	2.54E-07	2.42E-06	3.91E-05	3.43E-06	5.43E-05	3.48E-05	0.000159	3.65E-09
39	2.68E-07	2.56E-06	4.13E-05	3.62E-06	5.73E-05	3.67E-05	0.000168	3.85E-09
40	2.82E-07	2.69E-06	4.34E-05	3.81E-06	6.02E-05	3.86E-05	0.000176	4.03E-09
41	2.96E-07	2.82E-06	4.55E-05	3.99E-06	6.32E-05	4.04E-05	0.000185	4.22E-09
42	3.09E-07	2.95E-06	4.76E-05	4.17E-06	6.6E-05	4.23E-05	0.000193	4.4E-09

MIN	0	0	0	0	0	-0.02705	0	0
MIN x 4	0	0	0	0	0	-0.10821	0	0
MONTH	D045012	SAND	D047011	BOX	BANBURY	ASH_REX	BRIGGS	HEISE_SHE
0	0	0	0	0	0	0	0	0
1	5.05E-15	3.09E-12	1.91E-14	1.19E-11	5.72E-13	0.588041	1.96E-13	0.615123
2	6.72E-14	4.1E-11	2.54E-13	1.58E-10	7.61E-12	1.11686	2.62E-12	1.376715
3	4.44E-13	2.7E-10	1.68E-12	1.04E-09	5.02E-11	1.523424	1.73E-11	2.083871
4	2.05E-12	1.24E-09	7.7E-12	4.8E-09	2.3E-10	1.827069	7.93E-11	2.679948
5	7.13E-12	4.3E-09	2.67E-11	1.66E-08	7.97E-10	1.464439	2.75E-10	2.54882
6	2.09E-11	1.26E-08	7.78E-11	4.85E-08	2.33E-09	1.102847	8.02E-10	2.175468
7	5.38E-11	3.23E-08	2E-10	1.25E-07	5.97E-09	0.820337	2.06E-09	1.779744
8	1.23E-10	7.33E-08	4.53E-10	2.83E-07	1.35E-08	0.608553	4.67E-09	1.435025
9	2.52E-10	1.5E-07	9.27E-10	5.78E-07	2.77E-08	0.450815	9.55E-09	1.155779
10	4.73E-10	2.82E-07	1.73E-09	1.08E-06	5.18E-08	0.332934	1.79E-08	0.936106
11	8.23E-10	4.89E-07	3.01E-09	1.88E-06	8.97E-08	0.24424	3.09E-08	0.765019
12	1.34E-09	7.94E-07	4.88E-09	3.05E-06	1.46E-07	0.177001	5.02E-08	0.631844
13	2.07E-09	1.22E-06	7.49E-09	4.68E-06	2.24E-07	0.125682	7.71E-08	0.527745
14	3.04E-09	1.79E-06	1.1E-08	6.86E-06	3.28E-07	0.086324	1.13E-07	0.445847
15	4.3E-09	2.53E-06	1.55E-08	9.67E-06	4.61E-07	0.056067	1.59E-07	0.380946
16	5.87E-09	3.45E-06	2.11E-08	1.32E-05	6.28E-07	0.032825	2.17E-07	0.329132
17	7.78E-09	4.56E-06	2.78E-08	1.74E-05	8.3E-07	0.015054	2.86E-07	0.287475
18	1E-08	5.88E-06	3.59E-08	2.24E-05	1.07E-06	0.001591	3.69E-07	0.253761
19	1.27E-08	7.41E-06	4.51E-08	2.82E-05	1.35E-06	-0.00845	4.64E-07	0.226313
20	1.57E-08	9.16E-06	5.57E-08	3.49E-05	1.66E-06	-0.01577	5.73E-07	0.203841
21	1.91E-08	1.11E-05	6.76E-08	4.23E-05	2.01E-06	-0.02089	6.94E-07	0.185351
22	2.28E-08	1.33E-05	8.06E-08	5.04E-05	2.4E-06	-0.02426	8.28E-07	0.170067
23	2.68E-08	1.56E-05	9.48E-08	5.94E-05	2.83E-06	-0.02622	9.74E-07	0.157377
24	3.12E-08	1.82E-05	1.1E-07	6.9E-05	3.28E-06	-0.02705	1.13E-06	0.146797
25	3.59E-08	2.09E-05	1.26E-07	7.92E-05	3.77E-06	-0.02698	1.3E-06	0.13794
26	4.09E-08	2.37E-05	1.44E-07	9E-05	4.28E-06	-0.02619	1.48E-06	0.130494
27	4.61E-08	2.67E-05	1.62E-07	0.000101	4.82E-06	-0.02484	1.66E-06	0.124209
28	5.15E-08	2.98E-05	1.8E-07	0.000113	5.38E-06	-0.02306	1.85E-06	0.11888
29	5.7E-08	3.3E-05	2E-07	0.000125	5.95E-06	-0.02094	2.05E-06	0.11434
30	6.27E-08	3.63E-05	2.19E-07	0.000137	6.54E-06	-0.01857	2.25E-06	0.110454
31	6.86E-08	3.97E-05	2.4E-07	0.00015	7.14E-06	-0.01604	2.46E-06	0.107108
32	7.45E-08	4.3E-05	2.6E-07	0.000163	7.74E-06	-0.01338	2.67E-06	0.10421
33	8.04E-08	4.65E-05	2.81E-07	0.000176	8.36E-06	-0.01065	2.88E-06	0.101684
34	8.64E-08	4.99E-05	3.01E-07	0.000189	8.97E-06	-0.00789	3.09E-06	0.099467
35	9.24E-08	5.33E-05	3.22E-07	0.000202	9.58E-06	-0.00513	3.3E-06	0.097506
36	9.84E-08	5.68E-05	3.42E-07	0.000215	1.02E-05	-0.0024	3.51E-06	0.095757
37	1.04E-07	6.02E-05	3.63E-07	0.000227	1.08E-05	0.000294	3.72E-06	0.094185
38	1.1E-07	6.35E-05	3.83E-07	0.00024	1.14E-05	0.002922	3.93E-06	0.092759
39	1.16E-07	6.68E-05	4.03E-07	0.000252	1.2E-05	0.005477	4.13E-06	0.091454
40	1.22E-07	7.01E-05	4.22E-07	0.000265	1.26E-05	0.007947	4.33E-06	0.090249
41	1.27E-07	7.33E-05	4.41E-07	0.000277	1.31E-05	0.010328	4.53E-06	0.089127
42	1.33E-07	7.64E-05	4.6E-07	0.000288	1.37E-05	0.012613	4.72E-06	0.088074

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	CLEARLK	D050014	D051014	NIAGARA	CRYSTAL	D057020	D058020	ELISON
0	0	0	0	0	0	0	0	0
1	7.17E-12	1.08E-16	4.83E-16	5.65E-12	7.46E-12	8.35E-15	2.17E-15	1.49E-14
2	9.68E-11	1.44E-15	6.44E-15	7.55E-11	1E-10	1.14E-13	3E-14	2.07E-13
3	6.42E-10	9.52E-15	4.25E-14	4.99E-10	6.69E-10	7.75E-13	2.05E-13	1.41E-12
4	2.96E-09	4.37E-14	1.95E-13	2.29E-09	3.1E-09	3.64E-12	9.72E-13	6.66E-12
5	1.03E-08	1.51E-13	6.75E-13	7.95E-09	1.08E-08	1.29E-11	3.47E-12	2.38E-11
6	3E-08	4.41E-13	1.97E-12	2.32E-08	3.18E-08	3.84E-11	1.04E-11	7.11E-11
7	7.69E-08	1.13E-12	5.05E-12	5.96E-08	8.2E-08	1E-10	2.73E-11	1.86E-10
8	1.75E-07	2.56E-12	1.14E-11	1.35E-07	1.87E-07	2.32E-10	6.34E-11	4.32E-10
9	3.57E-07	5.24E-12	2.34E-11	2.76E-07	3.85E-07	4.81E-10	1.33E-10	9.03E-10
10	6.67E-07	9.79E-12	4.37E-11	5.17E-07	7.24E-07	9.16E-10	2.53E-10	1.73E-09
11	1.16E-06	1.69E-11	7.57E-11	8.96E-07	1.26E-06	1.61E-09	4.48E-10	3.05E-09
12	1.88E-06	2.75E-11	1.23E-10	1.45E-06	2.06E-06	2.65E-09	7.41E-10	5.04E-09
13	2.88E-06	4.22E-11	1.88E-10	2.23E-06	3.17E-06	4.13E-09	1.16E-09	7.88E-09
14	4.22E-06	6.18E-11	2.76E-10	3.27E-06	4.66E-06	6.12E-09	1.72E-09	1.17E-08
15	5.94E-06	8.69E-11	3.88E-10	4.61E-06	6.59E-06	8.7E-09	2.46E-09	1.67E-08
16	8.08E-06	1.18E-10	5.28E-10	6.27E-06	8.99E-06	1.2E-08	3.39E-09	2.31E-08
17	1.07E-05	1.56E-10	6.98E-10	8.28E-06	1.19E-05	1.59E-08	4.54E-09	3.09E-08
18	1.37E-05	2.01E-10	8.98E-10	1.07E-05	1.54E-05	2.07E-08	5.9E-09	4.02E-08
19	1.73E-05	2.53E-10	1.13E-09	1.34E-05	1.94E-05	2.62E-08	7.5E-09	5.11E-08
20	2.13E-05	3.12E-10	1.39E-09	1.66E-05	2.4E-05	3.26E-08	9.34E-09	6.36E-08
21	2.59E-05	3.78E-10	1.69E-09	2.01E-05	2.91E-05	3.97E-08	1.14E-08	7.77E-08
22	3.09E-05	4.51E-10	2.01E-09	2.4E-05	3.48E-05	4.76E-08	1.37E-08	9.33E-08
23	3.63E-05	5.3E-10	2.37E-09	2.82E-05	4.1E-05	5.62E-08	1.62E-08	1.11E-07
24	4.22E-05	6.16E-10	2.75E-09	3.27E-05	4.76E-05	6.56E-08	1.9E-08	1.29E-07
25	4.84E-05	7.07E-10	3.16E-09	3.76E-05	5.47E-05	7.56E-08	2.19E-08	1.49E-07
26	5.5E-05	8.03E-10	3.59E-09	4.27E-05	6.22E-05	8.62E-08	2.5E-08	1.7E-07
27	6.19E-05	9.03E-10	4.03E-09	4.8E-05	7E-05	9.73E-08	2.82E-08	1.92E-07
28	6.9E-05	1.01E-09	4.5E-09	5.35E-05	7.82E-05	1.09E-07	3.16E-08	2.16E-07
29	7.64E-05	1.11E-09	4.98E-09	5.93E-05	8.66E-05	1.21E-07	3.52E-08	2.4E-07
30	8.39E-05	1.22E-09	5.47E-09	6.51E-05	9.52E-05	1.33E-07	3.88E-08	2.64E-07
31	9.16E-05	1.34E-09	5.97E-09	7.11E-05	0.000104	1.46E-07	4.25E-08	2.89E-07
32	9.93E-05	1.45E-09	6.47E-09	7.71E-05	0.000113	1.58E-07	4.62E-08	3.15E-07
33	0.000107	1.56E-09	6.98E-09	8.32E-05	0.000122	1.71E-07	5E-08	3.41E-07
34	0.000115	1.68E-09	7.5E-09	8.93E-05	0.000131	1.84E-07	5.38E-08	3.67E-07
35	0.000123	1.79E-09	8.01E-09	9.54E-05	0.00014	1.97E-07	5.76E-08	3.93E-07
36	0.000131	1.91E-09	8.52E-09	0.000101	0.000149	2.1E-07	6.14E-08	4.19E-07
37	0.000138	2.02E-09	9.02E-09	0.000107	0.000158	2.23E-07	6.52E-08	4.45E-07
38	0.000146	2.13E-09	9.52E-09	0.000113	0.000166	2.35E-07	6.89E-08	4.71E-07
39	0.000154	2.24E-09	1E-08	0.000119	0.000175	2.48E-07	7.26E-08	4.96E-07
40	0.000161	2.35E-09	1.05E-08	0.000125	0.000184	2.6E-07	7.63E-08	5.21E-07
41	0.000168	2.46E-09	1.1E-08	0.000131	0.000192	2.72E-07	7.99E-08	5.45E-07
42	0.000176	2.56E-09	1.14E-08	0.000136	0.0002	2.84E-07	8.34E-08	5.69E-07

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D059021	D059022	D061023	D062023	BLUELK	D064026	D065027	DEVILC
0	0	0	0	0	0	0	0	0
1	8.56E-17	2.06E-15	9.25E-15	1.98E-15	6.66E-13	1.2E-14	1.54E-14	2.71E-13
2	1.2E-15	2.88E-14	1.33E-13	2.87E-14	9.71E-12	1.76E-13	2.21E-13	3.84E-12
3	8.28E-15	1.99E-13	9.42E-13	2.05E-13	6.99E-11	1.27E-12	1.56E-12	2.67E-11
4	3.96E-14	9.5E-13	4.61E-12	1.01E-12	3.47E-10	6.3E-12	7.61E-12	1.28E-10
5	1.43E-13	3.43E-12	1.71E-11	3.76E-12	1.3E-09	2.37E-11	2.8E-11	4.65E-10
6	4.31E-13	1.03E-11	5.28E-11	1.17E-11	4.07E-09	7.42E-11	8.62E-11	1.41E-09
7	1.14E-12	2.73E-11	1.42E-10	3.16E-11	1.11E-08	2.03E-10	2.32E-10	3.76E-09
8	2.66E-12	6.39E-11	3.4E-10	7.58E-11	2.68E-08	4.91E-10	5.54E-10	8.88E-09
9	5.61E-12	1.35E-10	7.33E-10	1.64E-10	5.84E-08	1.07E-09	1.19E-09	1.89E-08
10	1.08E-11	2.6E-10	1.44E-09	3.24E-10	1.16E-07	2.14E-09	2.35E-09	3.68E-08
11	1.93E-11	4.63E-10	2.62E-09	5.91E-10	2.14E-07	3.95E-09	4.27E-09	6.64E-08
12	3.21E-11	7.71E-10	4.46E-09	1.01E-09	3.67E-07	6.81E-09	7.28E-09	1.12E-07
13	5.05E-11	1.21E-09	7.15E-09	1.62E-09	5.95E-07	1.11E-08	1.17E-08	1.79E-07
14	7.56E-11	1.82E-09	1.09E-08	2.49E-09	9.18E-07	1.71E-08	1.8E-08	2.72E-07
15	1.09E-10	2.62E-09	1.59E-08	3.65E-09	1.35E-06	2.54E-08	2.64E-08	3.97E-07
16	1.5E-10	3.63E-09	2.25E-08	5.15E-09	1.92E-06	3.63E-08	3.74E-08	5.59E-07
17	2.02E-10	4.88E-09	3.06E-08	7.04E-09	2.65E-06	5.01E-08	5.14E-08	7.63E-07
18	2.64E-10	6.38E-09	4.06E-08	9.36E-09	3.54E-06	6.74E-08	6.86E-08	1.01E-06
19	3.37E-10	8.15E-09	5.25E-08	1.21E-08	4.62E-06	8.83E-08	8.95E-08	1.32E-06
20	4.21E-10	1.02E-08	6.64E-08	1.54E-08	5.88E-06	1.13E-07	1.14E-07	1.67E-06
21	5.17E-10	1.25E-08	8.24E-08	1.91E-08	7.35E-06	1.42E-07	1.43E-07	2.09E-06
22	6.23E-10	1.51E-08	1E-07	2.34E-08	9.03E-06	1.75E-07	1.76E-07	2.56E-06
23	7.39E-10	1.79E-08	1.21E-07	2.81E-08	1.09E-05	2.13E-07	2.13E-07	3.09E-06
24	8.66E-10	2.1E-08	1.43E-07	3.33E-08	1.3E-05	2.55E-07	2.54E-07	3.68E-06
25	1E-09	2.43E-08	1.67E-07	3.9E-08	1.53E-05	3.01E-07	3E-07	4.33E-06
26	1.15E-09	2.79E-08	1.92E-07	4.51E-08	1.77E-05	3.52E-07	3.49E-07	5.04E-06
27	1.3E-09	3.16E-08	2.2E-07	5.16E-08	2.04E-05	4.07E-07	4.03E-07	5.8E-06
28	1.46E-09	3.55E-08	2.49E-07	5.85E-08	2.32E-05	4.65E-07	4.6E-07	6.61E-06
29	1.63E-09	3.96E-08	2.79E-07	6.57E-08	2.62E-05	5.27E-07	5.21E-07	7.48E-06
30	1.8E-09	4.37E-08	3.1E-07	7.32E-08	2.93E-05	5.93E-07	5.85E-07	8.39E-06
31	1.97E-09	4.8E-08	3.43E-07	8.1E-08	3.25E-05	6.61E-07	6.53E-07	9.34E-06
32	2.15E-09	5.24E-08	3.76E-07	8.9E-08	3.59E-05	7.33E-07	7.23E-07	1.03E-05
33	2.33E-09	5.68E-08	4.1E-07	9.71E-08	3.93E-05	8.07E-07	7.96E-07	1.14E-05
34	2.51E-09	6.12E-08	4.44E-07	1.05E-07	4.28E-05	8.83E-07	8.7E-07	1.24E-05
35	2.69E-09	6.57E-08	4.79E-07	1.14E-07	4.64E-05	9.61E-07	9.47E-07	1.35E-05
36	2.87E-09	7.01E-08	5.14E-07	1.22E-07	5E-05	1.04E-06	1.03E-06	1.46E-05
37	3.05E-09	7.46E-08	5.49E-07	1.31E-07	5.37E-05	1.12E-06	1.1E-06	1.57E-05
38	3.23E-09	7.9E-08	5.84E-07	1.39E-07	5.73E-05	1.2E-06	1.19E-06	1.69E-05
39	3.41E-09	8.33E-08	6.19E-07	1.48E-07	6.1E-05	1.29E-06	1.27E-06	1.8E-05
40	3.58E-09	8.76E-08	6.54E-07	1.56E-07	6.47E-05	1.37E-06	1.35E-06	1.92E-05
41	3.75E-09	9.19E-08	6.88E-07	1.65E-07	6.84E-05	1.45E-06	1.43E-06	2.03E-05
42	3.92E-09	9.6E-08	7.22E-07	1.73E-07	7.2E-05	1.53E-06	1.51E-06	2.15E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	DEVILW	D068029	D069029	D070030	SHELNRLBL	NRBLKFMI	GHB_LSF	GHB_BUL
0	0	0	0	0	0	0	0	0
1	2.31E-13	1.48E-15	2.19E-15	2.05E-15	7.74E-06	1.74E-05	9.79E-14	7.33E-13
2	3.25E-12	2.06E-14	3.06E-14	2.87E-14	5.05E-05	0.000114	1.39E-12	9.89E-12
3	2.24E-11	1.41E-13	2.1E-13	1.96E-13	0.000181	0.00041	9.83E-12	6.62E-11
4	1.07E-10	6.69E-13	9.93E-13	9.29E-13	0.000474	0.001078	4.8E-11	3.08E-10
5	3.83E-10	2.39E-12	3.55E-12	3.32E-12	0.001007	0.002293	1.77E-10	1.09E-09
6	1.16E-09	7.17E-12	1.06E-11	9.95E-12	0.001837	0.004193	5.46E-10	3.21E-09
7	3.06E-09	1.89E-11	2.81E-11	2.62E-11	0.002984	0.00683	1.47E-09	8.34E-09
8	7.17E-09	4.41E-11	6.55E-11	6.12E-11	0.004429	0.010169	3.52E-09	1.92E-08
9	1.52E-08	9.29E-11	1.38E-10	1.29E-10	0.006126	0.014116	7.58E-09	3.97E-08
10	2.93E-08	1.79E-10	2.66E-10	2.48E-10	0.008011	0.01853	1.49E-08	7.53E-08
11	5.26E-08	3.2E-10	4.74E-10	4.43E-10	0.010015	0.023261	2.72E-08	1.32E-07
12	8.83E-08	5.35E-10	7.94E-10	7.42E-10	0.012071	0.02816	4.64E-08	2.17E-07
13	1.4E-07	8.47E-10	1.26E-09	1.17E-09	0.014125	0.033097	7.46E-08	3.38E-07
14	2.12E-07	1.28E-09	1.9E-09	1.77E-09	0.016129	0.037963	1.14E-07	5E-07
15	3.09E-07	1.85E-09	2.75E-09	2.57E-09	0.01805	0.042669	1.68E-07	7.12E-07
16	4.33E-07	2.6E-09	3.85E-09	3.6E-09	0.019861	0.047153	2.37E-07	9.78E-07
17	5.9E-07	3.53E-09	5.24E-09	4.89E-09	0.021546	0.051368	3.24E-07	1.3E-06
18	7.83E-07	4.67E-09	6.93E-09	6.47E-09	0.023096	0.055283	4.32E-07	1.69E-06
19	1.01E-06	6.04E-09	8.96E-09	8.37E-09	0.024507	0.058883	5.61E-07	2.15E-06
20	1.29E-06	7.65E-09	1.13E-08	1.06E-08	0.025778	0.062162	7.13E-07	2.67E-06
21	1.6E-06	9.52E-09	1.41E-08	1.32E-08	0.026914	0.065122	8.88E-07	3.26E-06
22	1.96E-06	1.16E-08	1.72E-08	1.61E-08	0.027919	0.06777	1.09E-06	3.91E-06
23	2.36E-06	1.4E-08	2.08E-08	1.94E-08	0.0288	0.07012	1.31E-06	4.63E-06
24	2.81E-06	1.67E-08	2.47E-08	2.31E-08	0.029564	0.072186	1.56E-06	5.4E-06
25	3.3E-06	1.96E-08	2.9E-08	2.71E-08	0.03022	0.073984	1.83E-06	6.24E-06
26	3.84E-06	2.27E-08	3.37E-08	3.15E-08	0.030775	0.075532	2.12E-06	7.12E-06
27	4.41E-06	2.61E-08	3.87E-08	3.62E-08	0.031238	0.076848	2.43E-06	8.05E-06
28	5.03E-06	2.98E-08	4.41E-08	4.12E-08	0.031616	0.07795	2.76E-06	9.01E-06
29	5.69E-06	3.36E-08	4.98E-08	4.65E-08	0.031917	0.078854	3.11E-06	1E-05
30	6.37E-06	3.77E-08	5.58E-08	5.21E-08	0.032147	0.079578	3.47E-06	1.1E-05
31	7.09E-06	4.19E-08	6.21E-08	5.8E-08	0.032314	0.080138	3.85E-06	1.21E-05
32	7.84E-06	4.63E-08	6.86E-08	6.41E-08	0.032423	0.080549	4.24E-06	1.32E-05
33	8.62E-06	5.09E-08	7.54E-08	7.04E-08	0.032481	0.080824	4.64E-06	1.43E-05
34	9.42E-06	5.56E-08	8.23E-08	7.69E-08	0.032492	0.080978	5.05E-06	1.54E-05
35	1.02E-05	6.04E-08	8.95E-08	8.36E-08	0.032461	0.081021	5.47E-06	1.64E-05
36	1.11E-05	6.53E-08	9.68E-08	9.04E-08	0.032394	0.080966	5.89E-06	1.75E-05
37	1.19E-05	7.03E-08	1.04E-07	9.73E-08	0.032293	0.080823	6.31E-06	1.86E-05
38	1.28E-05	7.53E-08	1.12E-07	1.04E-07	0.032164	0.0806	6.74E-06	1.97E-05
39	1.37E-05	8.04E-08	1.19E-07	1.11E-07	0.032008	0.080308	7.16E-06	2.08E-05
40	1.45E-05	8.56E-08	1.27E-07	1.18E-07	0.031829	0.079953	7.59E-06	2.18E-05
41	1.54E-05	9.07E-08	1.34E-07	1.26E-07	0.031631	0.079544	8.01E-06	2.29E-05
42	1.63E-05	9.59E-08	1.42E-07	1.33E-07	0.031415	0.079086	8.43E-06	2.39E-05

MIN	0	
MIN x 4	0	
MONTH	GHB_KIM_BUL	
0	0	
1	5.31E-13	
2	7.41E-12	
3	5.09E-11	
4	2.42E-10	
5	8.68E-10	
6	2.61E-09	
7	6.9E-09	
8	1.61E-08	
9	3.4E-08	
10	6.55E-08	
11	1.17E-07	
12	1.95E-07	
13	3.09E-07	
14	4.65E-07	
15	6.72E-07	
16	9.38E-07	
17	1.27E-06	
18	1.67E-06	
19	2.15E-06	
20	2.71E-06	
21	3.36E-06	
22	4.09E-06	
23	4.9E-06	
24	5.79E-06	
25	6.76E-06	
26	7.82E-06	
27	8.94E-06	
28	1.01E-05	
29	1.14E-05	
30	1.27E-05	
31	1.41E-05	
32	1.55E-05	
33	1.69E-05	
34	1.84E-05	
35	1.99E-05	
36	2.14E-05	
37	2.3E-05	
38	2.45E-05	
39	2.61E-05	
40	2.76E-05	
41	2.92E-05	
42	3.07E-05	

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	BANCROFT	D030013	D031013	D031014	D032013	D032014	D033013	D033014
43	2.78E-07	7.85E-08	2.07E-07	2.36E-07	3.76E-08	7.82E-07	3.22E-09	1.33E-06
44	2.96E-07	8.22E-08	2.17E-07	2.47E-07	3.93E-08	8.19E-07	3.37E-09	1.4E-06
45	3.14E-07	8.58E-08	2.27E-07	2.58E-07	4.1E-08	8.54E-07	3.51E-09	1.46E-06
46	3.32E-07	8.94E-08	2.36E-07	2.69E-07	4.27E-08	8.9E-07	3.66E-09	1.52E-06
47	3.5E-07	9.28E-08	2.45E-07	2.79E-07	4.44E-08	9.24E-07	3.8E-09	1.58E-06
48	3.68E-07	9.62E-08	2.54E-07	2.89E-07	4.6E-08	9.58E-07	3.94E-09	1.63E-06
49	3.86E-07	9.96E-08	2.63E-07	2.99E-07	4.76E-08	9.91E-07	4.07E-09	1.69E-06
50	4.03E-07	1.03E-07	2.71E-07	3.09E-07	4.91E-08	1.02E-06	4.21E-09	1.74E-06
51	4.21E-07	1.06E-07	2.8E-07	3.19E-07	5.07E-08	1.05E-06	4.34E-09	1.8E-06
52	4.38E-07	1.09E-07	2.88E-07	3.28E-07	5.21E-08	1.09E-06	4.46E-09	1.85E-06
53	4.55E-07	1.12E-07	2.96E-07	3.37E-07	5.35E-08	1.11E-06	4.58E-09	1.9E-06
54	4.72E-07	1.15E-07	3.03E-07	3.45E-07	5.49E-08	1.14E-06	4.7E-09	1.95E-06
55	4.89E-07	1.18E-07	3.11E-07	3.54E-07	5.63E-08	1.17E-06	4.82E-09	2E-06
56	5.05E-07	1.21E-07	3.18E-07	3.62E-07	5.76E-08	1.2E-06	4.93E-09	2.04E-06
57	5.21E-07	1.23E-07	3.25E-07	3.7E-07	5.88E-08	1.22E-06	5.03E-09	2.09E-06
58	5.37E-07	1.26E-07	3.32E-07	3.78E-07	6E-08	1.25E-06	5.14E-09	2.13E-06
59	5.52E-07	1.28E-07	3.38E-07	3.85E-07	6.12E-08	1.27E-06	5.24E-09	2.17E-06
60	5.67E-07	1.31E-07	3.44E-07	3.92E-07	6.23E-08	1.3E-06	5.33E-09	2.21E-06
61	5.82E-07	1.33E-07	3.5E-07	3.99E-07	6.34E-08	1.32E-06	5.43E-09	2.25E-06
62	5.96E-07	1.35E-07	3.56E-07	4.05E-07	6.44E-08	1.34E-06	5.51E-09	2.29E-06
63	6.1E-07	1.37E-07	3.61E-07	4.12E-07	6.54E-08	1.36E-06	5.6E-09	2.32E-06
64	6.24E-07	1.39E-07	3.67E-07	4.18E-07	6.64E-08	1.38E-06	5.68E-09	2.36E-06
65	6.37E-07	1.41E-07	3.72E-07	4.23E-07	6.73E-08	1.4E-06	5.76E-09	2.39E-06
66	6.5E-07	1.43E-07	3.77E-07	4.29E-07	6.82E-08	1.42E-06	5.83E-09	2.42E-06
67	6.62E-07	1.45E-07	3.81E-07	4.34E-07	6.9E-08	1.44E-06	5.91E-09	2.45E-06
68	6.74E-07	1.46E-07	3.86E-07	4.39E-07	6.98E-08	1.45E-06	5.97E-09	2.48E-06
69	6.86E-07	1.48E-07	3.9E-07	4.44E-07	7.05E-08	1.47E-06	6.04E-09	2.5E-06
70	6.97E-07	1.49E-07	3.94E-07	4.48E-07	7.13E-08	1.48E-06	6.1E-09	2.53E-06
71	7.08E-07	1.51E-07	3.98E-07	4.53E-07	7.2E-08	1.5E-06	6.16E-09	2.55E-06
72	7.18E-07	1.52E-07	4.01E-07	4.57E-07	7.26E-08	1.51E-06	6.22E-09	2.58E-06
73	7.28E-07	1.54E-07	4.05E-07	4.61E-07	7.32E-08	1.52E-06	6.27E-09	2.6E-06
74	7.38E-07	1.55E-07	4.08E-07	4.64E-07	7.38E-08	1.54E-06	6.32E-09	2.62E-06
75	7.48E-07	1.56E-07	4.11E-07	4.68E-07	7.44E-08	1.55E-06	6.37E-09	2.64E-06
76	7.57E-07	1.57E-07	4.14E-07	4.71E-07	7.49E-08	1.56E-06	6.41E-09	2.66E-06
77	7.65E-07	1.58E-07	4.17E-07	4.74E-07	7.54E-08	1.57E-06	6.45E-09	2.68E-06
78	7.74E-07	1.59E-07	4.19E-07	4.77E-07	7.59E-08	1.58E-06	6.49E-09	2.69E-06
79	7.82E-07	1.6E-07	4.22E-07	4.8E-07	7.63E-08	1.59E-06	6.53E-09	2.71E-06
80	7.9E-07	1.61E-07	4.24E-07	4.83E-07	7.67E-08	1.6E-06	6.57E-09	2.72E-06
81	7.97E-07	1.62E-07	4.26E-07	4.85E-07	7.71E-08	1.6E-06	6.6E-09	2.74E-06
82	8.04E-07	1.62E-07	4.28E-07	4.87E-07	7.75E-08	1.61E-06	6.63E-09	2.75E-06
83	8.11E-07	1.63E-07	4.3E-07	4.89E-07	7.78E-08	1.62E-06	6.66E-09	2.76E-06
84	8.17E-07	1.64E-07	4.32E-07	4.91E-07	7.81E-08	1.63E-06	6.68E-09	2.77E-06
85	8.23E-07	1.64E-07	4.33E-07	4.93E-07	7.84E-08	1.63E-06	6.71E-09	2.78E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D034014	D035014	D036014	MALAD	D037014	BIRCH	D038014	BIGSP
43	3.71E-06	5.03E-07	6.49E-07	0.000127	5.29E-07	2.37E-07	3.6E-06	2.66E-05
44	3.88E-06	5.26E-07	6.77E-07	0.000132	5.51E-07	2.47E-07	3.75E-06	2.77E-05
45	4.05E-06	5.49E-07	7.04E-07	0.000138	5.72E-07	2.56E-07	3.89E-06	2.87E-05
46	4.21E-06	5.71E-07	7.31E-07	0.000143	5.93E-07	2.66E-07	4.03E-06	2.97E-05
47	4.38E-06	5.92E-07	7.57E-07	0.000148	6.13E-07	2.75E-07	4.17E-06	3.07E-05
48	4.54E-06	6.13E-07	7.82E-07	0.000153	6.33E-07	2.83E-07	4.3E-06	3.17E-05
49	4.69E-06	6.34E-07	8.07E-07	0.000158	6.52E-07	2.92E-07	4.42E-06	3.26E-05
50	4.84E-06	6.54E-07	8.31E-07	0.000163	6.7E-07	3E-07	4.55E-06	3.35E-05
51	4.99E-06	6.73E-07	8.54E-07	0.000168	6.88E-07	3.08E-07	4.67E-06	3.44E-05
52	5.14E-06	6.92E-07	8.77E-07	0.000172	7.06E-07	3.16E-07	4.78E-06	3.52E-05
53	5.28E-06	7.11E-07	8.99E-07	0.000177	7.22E-07	3.23E-07	4.89E-06	3.61E-05
54	5.41E-06	7.28E-07	9.2E-07	0.000181	7.38E-07	3.3E-07	5E-06	3.68E-05
55	5.54E-06	7.46E-07	9.4E-07	0.000185	7.54E-07	3.37E-07	5.1E-06	3.76E-05
56	5.67E-06	7.62E-07	9.6E-07	0.000189	7.68E-07	3.44E-07	5.2E-06	3.83E-05
57	5.79E-06	7.78E-07	9.79E-07	0.000193	7.83E-07	3.5E-07	5.29E-06	3.9E-05
58	5.91E-06	7.94E-07	9.97E-07	0.000196	7.96E-07	3.56E-07	5.38E-06	3.96E-05
59	6.02E-06	8.09E-07	1.01E-06	0.0002	8.09E-07	3.62E-07	5.47E-06	4.03E-05
60	6.13E-06	8.23E-07	1.03E-06	0.000203	8.22E-07	3.68E-07	5.55E-06	4.09E-05
61	6.24E-06	8.37E-07	1.05E-06	0.000207	8.34E-07	3.73E-07	5.63E-06	4.14E-05
62	6.34E-06	8.5E-07	1.06E-06	0.00021	8.45E-07	3.78E-07	5.7E-06	4.2E-05
63	6.44E-06	8.63E-07	1.08E-06	0.000213	8.56E-07	3.83E-07	5.77E-06	4.25E-05
64	6.53E-06	8.75E-07	1.09E-06	0.000215	8.66E-07	3.87E-07	5.84E-06	4.3E-05
65	6.62E-06	8.86E-07	1.1E-06	0.000218	8.76E-07	3.92E-07	5.9E-06	4.35E-05
66	6.7E-06	8.97E-07	1.12E-06	0.000221	8.85E-07	3.96E-07	5.96E-06	4.39E-05
67	6.79E-06	9.08E-07	1.13E-06	0.000223	8.94E-07	4E-07	6.02E-06	4.43E-05
68	6.86E-06	9.18E-07	1.14E-06	0.000225	9.02E-07	4.03E-07	6.07E-06	4.47E-05
69	6.94E-06	9.28E-07	1.15E-06	0.000228	9.1E-07	4.07E-07	6.12E-06	4.51E-05
70	7.01E-06	9.37E-07	1.16E-06	0.00023	9.17E-07	4.1E-07	6.17E-06	4.54E-05
71	7.08E-06	9.45E-07	1.17E-06	0.000232	9.24E-07	4.13E-07	6.22E-06	4.58E-05
72	7.14E-06	9.54E-07	1.18E-06	0.000233	9.3E-07	4.16E-07	6.26E-06	4.61E-05
73	7.2E-06	9.61E-07	1.19E-06	0.000235	9.37E-07	4.19E-07	6.3E-06	4.63E-05
74	7.26E-06	9.69E-07	1.2E-06	0.000237	9.42E-07	4.21E-07	6.34E-06	4.66E-05
75	7.31E-06	9.76E-07	1.2E-06	0.000238	9.48E-07	4.24E-07	6.37E-06	4.69E-05
76	7.36E-06	9.82E-07	1.21E-06	0.00024	9.53E-07	4.26E-07	6.4E-06	4.71E-05
77	7.41E-06	9.88E-07	1.22E-06	0.000241	9.57E-07	4.28E-07	6.43E-06	4.73E-05
78	7.46E-06	9.94E-07	1.22E-06	0.000242	9.62E-07	4.3E-07	6.46E-06	4.75E-05
79	7.5E-06	9.99E-07	1.23E-06	0.000244	9.65E-07	4.32E-07	6.48E-06	4.77E-05
80	7.54E-06	1E-06	1.24E-06	0.000245	9.69E-07	4.33E-07	6.51E-06	4.79E-05
81	7.58E-06	1.01E-06	1.24E-06	0.000246	9.72E-07	4.35E-07	6.53E-06	4.8E-05
82	7.61E-06	1.01E-06	1.24E-06	0.000247	9.75E-07	4.36E-07	6.55E-06	4.82E-05
83	7.64E-06	1.02E-06	1.25E-06	0.000248	9.78E-07	4.37E-07	6.56E-06	4.83E-05
84	7.67E-06	1.02E-06	1.25E-06	0.000248	9.81E-07	4.38E-07	6.58E-06	4.84E-05
85	7.7E-06	1.02E-06	1.26E-06	0.000249	9.83E-07	4.39E-07	6.59E-06	4.85E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D040013	D040014	THREESP	TUCKER	RANGEN	NTLFSHH	THOUSAN	D045011
43	3.22E-07	3.08E-06	4.96E-05	4.35E-06	6.88E-05	4.4E-05	0.000201	4.58E-09
44	3.35E-07	3.2E-06	5.16E-05	4.52E-06	7.16E-05	4.58E-05	0.000209	4.75E-09
45	3.48E-07	3.32E-06	5.35E-05	4.69E-06	7.42E-05	4.75E-05	0.000216	4.92E-09
46	3.6E-07	3.44E-06	5.54E-05	4.85E-06	7.68E-05	4.91E-05	0.000224	5.09E-09
47	3.72E-07	3.55E-06	5.73E-05	5.01E-06	7.94E-05	5.08E-05	0.000231	5.25E-09
48	3.84E-07	3.67E-06	5.9E-05	5.17E-06	8.18E-05	5.23E-05	0.000238	5.4E-09
49	3.95E-07	3.77E-06	6.08E-05	5.32E-06	8.42E-05	5.38E-05	0.000244	5.55E-09
50	4.06E-07	3.88E-06	6.24E-05	5.46E-06	8.65E-05	5.53E-05	0.000251	5.69E-09
51	4.16E-07	3.98E-06	6.4E-05	5.6E-06	8.87E-05	5.67E-05	0.000257	5.83E-09
52	4.27E-07	4.07E-06	6.56E-05	5.74E-06	9.09E-05	5.81E-05	0.000263	5.96E-09
53	4.36E-07	4.17E-06	6.71E-05	5.87E-06	9.29E-05	5.94E-05	0.000269	6.09E-09
54	4.46E-07	4.26E-06	6.85E-05	5.99E-06	9.49E-05	6.06E-05	0.000274	6.21E-09
55	4.55E-07	4.34E-06	6.99E-05	6.11E-06	9.68E-05	6.18E-05	0.00028	6.33E-09
56	4.63E-07	4.43E-06	7.13E-05	6.23E-06	9.86E-05	6.3E-05	0.000285	6.44E-09
57	4.72E-07	4.51E-06	7.25E-05	6.34E-06	0.0001	6.41E-05	0.00029	6.55E-09
58	4.8E-07	4.58E-06	7.37E-05	6.44E-06	0.000102	6.52E-05	0.000294	6.65E-09
59	4.87E-07	4.65E-06	7.49E-05	6.54E-06	0.000104	6.62E-05	0.000299	6.75E-09
60	4.94E-07	4.72E-06	7.6E-05	6.64E-06	0.000105	6.71E-05	0.000303	6.84E-09
61	5.01E-07	4.79E-06	7.71E-05	6.73E-06	0.000107	6.81E-05	0.000307	6.93E-09
62	5.08E-07	4.85E-06	7.81E-05	6.82E-06	0.000108	6.89E-05	0.000311	7.01E-09
63	5.14E-07	4.91E-06	7.9E-05	6.9E-06	0.000109	6.97E-05	0.000315	7.09E-09
64	5.2E-07	4.97E-06	7.99E-05	6.98E-06	0.000111	7.05E-05	0.000318	7.17E-09
65	5.25E-07	5.02E-06	8.08E-05	7.05E-06	0.000112	7.13E-05	0.000321	7.24E-09
66	5.31E-07	5.07E-06	8.16E-05	7.12E-06	0.000113	7.2E-05	0.000324	7.31E-09
67	5.36E-07	5.12E-06	8.23E-05	7.19E-06	0.000114	7.26E-05	0.000327	7.37E-09
68	5.4E-07	5.16E-06	8.31E-05	7.25E-06	0.000115	7.33E-05	0.00033	7.43E-09
69	5.45E-07	5.21E-06	8.37E-05	7.31E-06	0.000116	7.39E-05	0.000332	7.48E-09
70	5.49E-07	5.25E-06	8.44E-05	7.36E-06	0.000117	7.44E-05	0.000335	7.54E-09
71	5.53E-07	5.28E-06	8.5E-05	7.42E-06	0.000117	7.49E-05	0.000337	7.58E-09
72	5.57E-07	5.32E-06	8.56E-05	7.47E-06	0.000118	7.54E-05	0.000339	7.63E-09
73	5.6E-07	5.35E-06	8.61E-05	7.51E-06	0.000119	7.59E-05	0.000341	7.67E-09
74	5.63E-07	5.38E-06	8.66E-05	7.55E-06	0.00012	7.63E-05	0.000343	7.71E-09
75	5.66E-07	5.41E-06	8.7E-05	7.59E-06	0.00012	7.67E-05	0.000345	7.75E-09
76	5.69E-07	5.44E-06	8.75E-05	7.63E-06	0.000121	7.71E-05	0.000346	7.78E-09
77	5.72E-07	5.46E-06	8.78E-05	7.66E-06	0.000121	7.74E-05	0.000348	7.81E-09
78	5.74E-07	5.49E-06	8.82E-05	7.69E-06	0.000122	7.77E-05	0.000349	7.84E-09
79	5.76E-07	5.51E-06	8.85E-05	7.72E-06	0.000122	7.8E-05	0.00035	7.86E-09
80	5.78E-07	5.53E-06	8.88E-05	7.75E-06	0.000123	7.83E-05	0.000351	7.89E-09
81	5.8E-07	5.54E-06	8.91E-05	7.77E-06	0.000123	7.85E-05	0.000352	7.91E-09
82	5.82E-07	5.56E-06	8.94E-05	7.79E-06	0.000123	7.87E-05	0.000353	7.93E-09
83	5.83E-07	5.57E-06	8.96E-05	7.81E-06	0.000124	7.89E-05	0.000354	7.94E-09
84	5.84E-07	5.59E-06	8.98E-05	7.83E-06	0.000124	7.91E-05	0.000355	7.96E-09
85	5.86E-07	5.6E-06	9E-05	7.84E-06	0.000124	7.92E-05	0.000355	7.97E-09

MIN	0	0	0	0	0	-0.02705	0	0
MIN x 4	0	0	0	0	0	-0.10821	0	0
MONTH	D045012	SAND	D047011	BOX	BANBURY	ASH_REX	BRIGGS	HEISE_SHE
43	1.38E-07	7.95E-05	4.78E-07	0.0003	1.42E-05	0.014799	4.91E-06	0.087076
44	1.43E-07	8.25E-05	4.96E-07	0.000311	1.48E-05	0.016884	5.09E-06	0.086125
45	1.48E-07	8.54E-05	5.14E-07	0.000322	1.53E-05	0.018868	5.27E-06	0.085213
46	1.53E-07	8.82E-05	5.3E-07	0.000333	1.58E-05	0.02075	5.44E-06	0.084331
47	1.58E-07	9.09E-05	5.47E-07	0.000343	1.63E-05	0.022532	5.61E-06	0.083475
48	1.63E-07	9.36E-05	5.62E-07	0.000353	1.67E-05	0.024215	5.77E-06	0.08264
49	1.67E-07	9.61E-05	5.78E-07	0.000362	1.72E-05	0.0258	5.93E-06	0.081822
50	1.72E-07	9.86E-05	5.92E-07	0.000372	1.76E-05	0.027291	6.08E-06	0.081018
51	1.76E-07	0.000101	6.07E-07	0.00038	1.81E-05	0.02869	6.22E-06	0.080226
52	1.8E-07	0.000103	6.2E-07	0.000389	1.85E-05	0.03	6.36E-06	0.079443
53	1.84E-07	0.000105	6.33E-07	0.000397	1.89E-05	0.031223	6.5E-06	0.078668
54	1.87E-07	0.000108	6.46E-07	0.000405	1.92E-05	0.032363	6.62E-06	0.0779
55	1.91E-07	0.00011	6.58E-07	0.000413	1.96E-05	0.033424	6.75E-06	0.077138
56	1.94E-07	0.000111	6.69E-07	0.00042	1.99E-05	0.034407	6.86E-06	0.07638
57	1.97E-07	0.000113	6.8E-07	0.000427	2.02E-05	0.035317	6.98E-06	0.075627
58	2.01E-07	0.000115	6.91E-07	0.000433	2.06E-05	0.036157	7.08E-06	0.074878
59	2.03E-07	0.000117	7E-07	0.000439	2.08E-05	0.03693	7.18E-06	0.074132
60	2.06E-07	0.000118	7.1E-07	0.000445	2.11E-05	0.037639	7.28E-06	0.07339
61	2.09E-07	0.00012	7.19E-07	0.000451	2.14E-05	0.038287	7.37E-06	0.072651
62	2.11E-07	0.000121	7.27E-07	0.000456	2.16E-05	0.038876	7.46E-06	0.071915
63	2.14E-07	0.000123	7.35E-07	0.000461	2.19E-05	0.03941	7.54E-06	0.071183
64	2.16E-07	0.000124	7.43E-07	0.000466	2.21E-05	0.039892	7.62E-06	0.070455
65	2.18E-07	0.000125	7.5E-07	0.000471	2.23E-05	0.040324	7.69E-06	0.06973
66	2.2E-07	0.000126	7.57E-07	0.000475	2.25E-05	0.040708	7.76E-06	0.069008
67	2.22E-07	0.000127	7.63E-07	0.000479	2.27E-05	0.041048	7.83E-06	0.068291
68	2.24E-07	0.000128	7.69E-07	0.000483	2.29E-05	0.041346	7.89E-06	0.067577
69	2.26E-07	0.000129	7.75E-07	0.000486	2.31E-05	0.041603	7.94E-06	0.066868
70	2.27E-07	0.00013	7.8E-07	0.000489	2.32E-05	0.041822	8E-06	0.066163
71	2.29E-07	0.000131	7.85E-07	0.000493	2.34E-05	0.042006	8.05E-06	0.065462
72	2.3E-07	0.000132	7.9E-07	0.000495	2.35E-05	0.042155	8.1E-06	0.064767
73	2.31E-07	0.000132	7.94E-07	0.000498	2.36E-05	0.042273	8.14E-06	0.064075
74	2.32E-07	0.000133	7.98E-07	0.000501	2.37E-05	0.042361	8.18E-06	0.063389
75	2.33E-07	0.000134	8.01E-07	0.000503	2.38E-05	0.04242	8.22E-06	0.062708
76	2.34E-07	0.000134	8.05E-07	0.000505	2.39E-05	0.042452	8.25E-06	0.062033
77	2.35E-07	0.000135	8.08E-07	0.000507	2.4E-05	0.04246	8.28E-06	0.061362
78	2.36E-07	0.000135	8.11E-07	0.000509	2.41E-05	0.042444	8.31E-06	0.060697
79	2.37E-07	0.000136	8.13E-07	0.00051	2.42E-05	0.042405	8.34E-06	0.060038
80	2.38E-07	0.000136	8.15E-07	0.000512	2.43E-05	0.042346	8.36E-06	0.059384
81	2.38E-07	0.000136	8.17E-07	0.000513	2.43E-05	0.042267	8.38E-06	0.058737
82	2.39E-07	0.000137	8.19E-07	0.000514	2.44E-05	0.04217	8.4E-06	0.058095
83	2.39E-07	0.000137	8.21E-07	0.000515	2.44E-05	0.042056	8.42E-06	0.057459
84	2.4E-07	0.000137	8.22E-07	0.000516	2.45E-05	0.041926	8.43E-06	0.056829
85	2.4E-07	0.000137	8.23E-07	0.000517	2.45E-05	0.041781	8.44E-06	0.056205

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	CLEARLK	D050014	D051014	NIAGARA	CRYSTAL	D057020	D058020	ELISON
43	0.000183	2.66E-09	1.19E-08	0.000142	0.000208	2.95E-07	8.68E-08	5.93E-07
44	0.000189	2.76E-09	1.23E-08	0.000147	0.000216	3.07E-07	9.01E-08	6.16E-07
45	0.000196	2.86E-09	1.28E-08	0.000152	0.000223	3.18E-07	9.34E-08	6.38E-07
46	0.000202	2.95E-09	1.32E-08	0.000157	0.000231	3.28E-07	9.66E-08	6.6E-07
47	0.000209	3.04E-09	1.36E-08	0.000162	0.000238	3.38E-07	9.96E-08	6.81E-07
48	0.000215	3.13E-09	1.4E-08	0.000166	0.000245	3.48E-07	1.03E-07	7.01E-07
49	0.00022	3.21E-09	1.43E-08	0.000171	0.000251	3.58E-07	1.05E-07	7.21E-07
50	0.000226	3.29E-09	1.47E-08	0.000175	0.000258	3.67E-07	1.08E-07	7.4E-07
51	0.000231	3.37E-09	1.51E-08	0.000179	0.000264	3.76E-07	1.11E-07	7.58E-07
52	0.000237	3.45E-09	1.54E-08	0.000183	0.00027	3.85E-07	1.13E-07	7.76E-07
53	0.000242	3.52E-09	1.57E-08	0.000187	0.000275	3.93E-07	1.16E-07	7.93E-07
54	0.000246	3.59E-09	1.6E-08	0.000191	0.000281	4.01E-07	1.18E-07	8.09E-07
55	0.000251	3.66E-09	1.63E-08	0.000194	0.000286	4.09E-07	1.21E-07	8.25E-07
56	0.000255	3.72E-09	1.66E-08	0.000198	0.000291	4.16E-07	1.23E-07	8.39E-07
57	0.000259	3.78E-09	1.69E-08	0.000201	0.000296	4.23E-07	1.25E-07	8.54E-07
58	0.000263	3.84E-09	1.71E-08	0.000204	0.0003	4.3E-07	1.27E-07	8.67E-07
59	0.000267	3.89E-09	1.74E-08	0.000207	0.000305	4.36E-07	1.29E-07	8.8E-07
60	0.000271	3.94E-09	1.76E-08	0.00021	0.000309	4.42E-07	1.3E-07	8.92E-07
61	0.000274	3.99E-09	1.78E-08	0.000212	0.000313	4.47E-07	1.32E-07	9.04E-07
62	0.000277	4.04E-09	1.8E-08	0.000215	0.000316	4.53E-07	1.34E-07	9.15E-07
63	0.00028	4.08E-09	1.82E-08	0.000217	0.00032	4.58E-07	1.35E-07	9.26E-07
64	0.000283	4.13E-09	1.84E-08	0.00022	0.000323	4.63E-07	1.37E-07	9.36E-07
65	0.000286	4.17E-09	1.86E-08	0.000222	0.000326	4.67E-07	1.38E-07	9.45E-07
66	0.000289	4.2E-09	1.88E-08	0.000224	0.000329	4.72E-07	1.39E-07	9.54E-07
67	0.000291	4.24E-09	1.89E-08	0.000225	0.000332	4.76E-07	1.41E-07	9.62E-07
68	0.000293	4.27E-09	1.91E-08	0.000227	0.000335	4.8E-07	1.42E-07	9.7E-07
69	0.000295	4.3E-09	1.92E-08	0.000229	0.000337	4.83E-07	1.43E-07	9.77E-07
70	0.000297	4.33E-09	1.93E-08	0.00023	0.000339	4.86E-07	1.44E-07	9.84E-07
71	0.000299	4.36E-09	1.95E-08	0.000232	0.000341	4.9E-07	1.45E-07	9.91E-07
72	0.000301	4.38E-09	1.96E-08	0.000233	0.000343	4.92E-07	1.46E-07	9.97E-07
73	0.000303	4.41E-09	1.97E-08	0.000234	0.000345	4.95E-07	1.46E-07	1E-06
74	0.000304	4.43E-09	1.98E-08	0.000236	0.000347	4.98E-07	1.47E-07	1.01E-06
75	0.000305	4.45E-09	1.99E-08	0.000237	0.000348	5E-07	1.48E-07	1.01E-06
76	0.000307	4.47E-09	1.99E-08	0.000238	0.00035	5.02E-07	1.49E-07	1.02E-06
77	0.000308	4.48E-09	2E-08	0.000239	0.000351	5.04E-07	1.49E-07	1.02E-06
78	0.000309	4.5E-09	2.01E-08	0.000239	0.000352	5.06E-07	1.5E-07	1.02E-06
79	0.00031	4.51E-09	2.02E-08	0.00024	0.000354	5.08E-07	1.5E-07	1.03E-06
80	0.000311	4.53E-09	2.02E-08	0.000241	0.000355	5.09E-07	1.51E-07	1.03E-06
81	0.000312	4.54E-09	2.03E-08	0.000241	0.000355	5.1E-07	1.51E-07	1.03E-06
82	0.000312	4.55E-09	2.03E-08	0.000242	0.000356	5.12E-07	1.51E-07	1.04E-06
83	0.000313	4.56E-09	2.03E-08	0.000242	0.000357	5.13E-07	1.52E-07	1.04E-06
84	0.000313	4.56E-09	2.04E-08	0.000243	0.000358	5.14E-07	1.52E-07	1.04E-06
85	0.000314	4.57E-09	2.04E-08	0.000243	0.000358	5.14E-07	1.52E-07	1.04E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D059021	D059022	D061023	D062023	BLUELK	D064026	D065027	DEVILC
43	4.09E-09	1E-07	7.55E-07	1.81E-07	7.56E-05	1.62E-06	1.6E-06	2.26E-05
44	4.25E-09	1.04E-07	7.88E-07	1.89E-07	7.92E-05	1.7E-06	1.68E-06	2.38E-05
45	4.41E-09	1.08E-07	8.2E-07	1.97E-07	8.27E-05	1.78E-06	1.76E-06	2.49E-05
46	4.56E-09	1.12E-07	8.51E-07	2.05E-07	8.61E-05	1.86E-06	1.84E-06	2.61E-05
47	4.71E-09	1.15E-07	8.82E-07	2.12E-07	8.95E-05	1.94E-06	1.92E-06	2.72E-05
48	4.85E-09	1.19E-07	9.12E-07	2.19E-07	9.28E-05	2.02E-06	2E-06	2.83E-05
49	4.99E-09	1.22E-07	9.41E-07	2.27E-07	9.61E-05	2.1E-06	2.08E-06	2.94E-05
50	5.12E-09	1.26E-07	9.69E-07	2.34E-07	9.93E-05	2.17E-06	2.15E-06	3.05E-05
51	5.25E-09	1.29E-07	9.96E-07	2.4E-07	0.000102	2.25E-06	2.23E-06	3.16E-05
52	5.38E-09	1.32E-07	1.02E-06	2.47E-07	0.000105	2.32E-06	2.3E-06	3.26E-05
53	5.5E-09	1.35E-07	1.05E-06	2.53E-07	0.000108	2.39E-06	2.37E-06	3.36E-05
54	5.61E-09	1.38E-07	1.07E-06	2.59E-07	0.000111	2.46E-06	2.44E-06	3.46E-05
55	5.72E-09	1.41E-07	1.1E-06	2.65E-07	0.000114	2.53E-06	2.51E-06	3.56E-05
56	5.83E-09	1.43E-07	1.12E-06	2.71E-07	0.000117	2.6E-06	2.58E-06	3.65E-05
57	5.93E-09	1.46E-07	1.14E-06	2.76E-07	0.000119	2.66E-06	2.65E-06	3.75E-05
58	6.02E-09	1.48E-07	1.16E-06	2.82E-07	0.000122	2.73E-06	2.71E-06	3.84E-05
59	6.12E-09	1.5E-07	1.18E-06	2.87E-07	0.000124	2.79E-06	2.77E-06	3.92E-05
60	6.2E-09	1.52E-07	1.2E-06	2.92E-07	0.000126	2.85E-06	2.83E-06	4.01E-05
61	6.29E-09	1.55E-07	1.22E-06	2.96E-07	0.000129	2.9E-06	2.89E-06	4.09E-05
62	6.37E-09	1.57E-07	1.24E-06	3.01E-07	0.000131	2.96E-06	2.95E-06	4.17E-05
63	6.44E-09	1.58E-07	1.26E-06	3.05E-07	0.000133	3.01E-06	3E-06	4.25E-05
64	6.51E-09	1.6E-07	1.27E-06	3.09E-07	0.000135	3.06E-06	3.05E-06	4.32E-05
65	6.58E-09	1.62E-07	1.29E-06	3.13E-07	0.000137	3.11E-06	3.1E-06	4.4E-05
66	6.64E-09	1.63E-07	1.3E-06	3.17E-07	0.000139	3.16E-06	3.15E-06	4.47E-05
67	6.7E-09	1.65E-07	1.32E-06	3.2E-07	0.00014	3.21E-06	3.2E-06	4.53E-05
68	6.76E-09	1.66E-07	1.33E-06	3.24E-07	0.000142	3.25E-06	3.25E-06	4.6E-05
69	6.81E-09	1.68E-07	1.34E-06	3.27E-07	0.000144	3.29E-06	3.29E-06	4.66E-05
70	6.86E-09	1.69E-07	1.35E-06	3.3E-07	0.000145	3.33E-06	3.33E-06	4.72E-05
71	6.91E-09	1.7E-07	1.36E-06	3.33E-07	0.000147	3.37E-06	3.37E-06	4.78E-05
72	6.95E-09	1.71E-07	1.37E-06	3.36E-07	0.000148	3.41E-06	3.41E-06	4.83E-05
73	6.99E-09	1.72E-07	1.38E-06	3.38E-07	0.000149	3.45E-06	3.45E-06	4.89E-05
74	7.03E-09	1.73E-07	1.39E-06	3.4E-07	0.000151	3.48E-06	3.48E-06	4.94E-05
75	7.06E-09	1.74E-07	1.4E-06	3.43E-07	0.000152	3.51E-06	3.52E-06	4.98E-05
76	7.1E-09	1.75E-07	1.41E-06	3.45E-07	0.000153	3.54E-06	3.55E-06	5.03E-05
77	7.13E-09	1.76E-07	1.42E-06	3.47E-07	0.000154	3.57E-06	3.58E-06	5.07E-05
78	7.15E-09	1.76E-07	1.43E-06	3.49E-07	0.000155	3.6E-06	3.61E-06	5.12E-05
79	7.18E-09	1.77E-07	1.43E-06	3.5E-07	0.000156	3.63E-06	3.64E-06	5.16E-05
80	7.2E-09	1.77E-07	1.44E-06	3.52E-07	0.000157	3.65E-06	3.67E-06	5.19E-05
81	7.22E-09	1.78E-07	1.44E-06	3.54E-07	0.000157	3.68E-06	3.69E-06	5.23E-05
82	7.24E-09	1.78E-07	1.45E-06	3.55E-07	0.000158	3.7E-06	3.71E-06	5.26E-05
83	7.26E-09	1.79E-07	1.45E-06	3.56E-07	0.000159	3.72E-06	3.74E-06	5.29E-05
84	7.27E-09	1.79E-07	1.46E-06	3.57E-07	0.00016	3.74E-06	3.76E-06	5.32E-05
85	7.28E-09	1.79E-07	1.46E-06	3.58E-07	0.00016	3.76E-06	3.78E-06	5.35E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	DEVILW	D068029	D069029	D070030	SHELNRL	NRBLKFM	GHB_LSF	GHB_BUL
43	1.72E-05	1.01E-07	1.5E-07	1.4E-07	0.031184	0.078586	8.84E-06	2.49E-05
44	1.8E-05	1.06E-07	1.57E-07	1.47E-07	0.030939	0.078048	9.25E-06	2.59E-05
45	1.89E-05	1.11E-07	1.65E-07	1.54E-07	0.030684	0.077479	9.66E-06	2.68E-05
46	1.98E-05	1.16E-07	1.72E-07	1.61E-07	0.030418	0.076882	1.01E-05	2.77E-05
47	2.06E-05	1.21E-07	1.8E-07	1.68E-07	0.030145	0.076262	1.04E-05	2.86E-05
48	2.15E-05	1.26E-07	1.87E-07	1.75E-07	0.029866	0.075622	1.08E-05	2.95E-05
49	2.23E-05	1.31E-07	1.94E-07	1.82E-07	0.02958	0.074965	1.12E-05	3.03E-05
50	2.31E-05	1.36E-07	2.02E-07	1.88E-07	0.029291	0.074295	1.16E-05	3.11E-05
51	2.39E-05	1.41E-07	2.09E-07	1.95E-07	0.028998	0.073614	1.19E-05	3.19E-05
52	2.47E-05	1.45E-07	2.16E-07	2.01E-07	0.028703	0.072924	1.23E-05	3.27E-05
53	2.55E-05	1.5E-07	2.22E-07	2.08E-07	0.028407	0.072228	1.26E-05	3.34E-05
54	2.62E-05	1.54E-07	2.29E-07	2.14E-07	0.028109	0.071528	1.29E-05	3.41E-05
55	2.7E-05	1.59E-07	2.35E-07	2.2E-07	0.027811	0.070825	1.32E-05	3.48E-05
56	2.77E-05	1.63E-07	2.42E-07	2.26E-07	0.027514	0.07012	1.35E-05	3.54E-05
57	2.84E-05	1.67E-07	2.48E-07	2.32E-07	0.027217	0.069416	1.38E-05	3.6E-05
58	2.91E-05	1.71E-07	2.54E-07	2.37E-07	0.026921	0.068713	1.41E-05	3.66E-05
59	2.98E-05	1.75E-07	2.6E-07	2.43E-07	0.026628	0.068012	1.44E-05	3.72E-05
60	3.04E-05	1.79E-07	2.65E-07	2.48E-07	0.026336	0.067315	1.46E-05	3.77E-05
61	3.1E-05	1.83E-07	2.71E-07	2.53E-07	0.026046	0.066622	1.49E-05	3.82E-05
62	3.17E-05	1.86E-07	2.76E-07	2.58E-07	0.025759	0.065934	1.51E-05	3.87E-05
63	3.22E-05	1.9E-07	2.81E-07	2.63E-07	0.025475	0.065251	1.54E-05	3.92E-05
64	3.28E-05	1.93E-07	2.86E-07	2.67E-07	0.025194	0.064575	1.56E-05	3.96E-05
65	3.34E-05	1.96E-07	2.91E-07	2.72E-07	0.024915	0.063905	1.58E-05	4E-05
66	3.39E-05	1.99E-07	2.96E-07	2.76E-07	0.02464	0.063241	1.6E-05	4.04E-05
67	3.44E-05	2.02E-07	3E-07	2.8E-07	0.024369	0.062585	1.62E-05	4.08E-05
68	3.49E-05	2.05E-07	3.04E-07	2.84E-07	0.024101	0.061937	1.64E-05	4.11E-05
69	3.54E-05	2.08E-07	3.09E-07	2.88E-07	0.023836	0.061297	1.66E-05	4.14E-05
70	3.58E-05	2.11E-07	3.13E-07	2.92E-07	0.023575	0.060664	1.68E-05	4.17E-05
71	3.63E-05	2.13E-07	3.16E-07	2.96E-07	0.023318	0.06004	1.69E-05	4.2E-05
72	3.67E-05	2.16E-07	3.2E-07	2.99E-07	0.023064	0.059424	1.71E-05	4.23E-05
73	3.71E-05	2.18E-07	3.24E-07	3.02E-07	0.022814	0.058816	1.72E-05	4.25E-05
74	3.75E-05	2.21E-07	3.27E-07	3.05E-07	0.022567	0.058216	1.74E-05	4.28E-05
75	3.79E-05	2.23E-07	3.3E-07	3.09E-07	0.022325	0.057625	1.75E-05	4.3E-05
76	3.82E-05	2.25E-07	3.33E-07	3.11E-07	0.022086	0.057043	1.76E-05	4.32E-05
77	3.86E-05	2.27E-07	3.36E-07	3.14E-07	0.021851	0.056469	1.77E-05	4.34E-05
78	3.89E-05	2.29E-07	3.39E-07	3.17E-07	0.021619	0.055904	1.78E-05	4.35E-05
79	3.92E-05	2.31E-07	3.42E-07	3.19E-07	0.021391	0.055347	1.79E-05	4.37E-05
80	3.95E-05	2.32E-07	3.44E-07	3.22E-07	0.021166	0.054798	1.8E-05	4.38E-05
81	3.97E-05	2.34E-07	3.47E-07	3.24E-07	0.020946	0.054257	1.81E-05	4.4E-05
82	4E-05	2.35E-07	3.49E-07	3.26E-07	0.020728	0.053725	1.82E-05	4.41E-05
83	4.03E-05	2.37E-07	3.51E-07	3.28E-07	0.020514	0.0532	1.83E-05	4.42E-05
84	4.05E-05	2.38E-07	3.53E-07	3.3E-07	0.020304	0.052684	1.84E-05	4.43E-05
85	4.07E-05	2.39E-07	3.55E-07	3.32E-07	0.020096	0.052175	1.84E-05	4.43E-05

MIN	0	
MIN x 4	0	
MONTH	GHB_KIM	BUL
43	3.23E-05	
44	3.38E-05	
45	3.53E-05	
46	3.68E-05	
47	3.83E-05	
48	3.97E-05	
49	4.11E-05	
50	4.25E-05	
51	4.39E-05	
52	4.52E-05	
53	4.65E-05	
54	4.78E-05	
55	4.9E-05	
56	5.02E-05	
57	5.13E-05	
58	5.24E-05	
59	5.35E-05	
60	5.46E-05	
61	5.56E-05	
62	5.66E-05	
63	5.75E-05	
64	5.84E-05	
65	5.93E-05	
66	6.01E-05	
67	6.09E-05	
68	6.17E-05	
69	6.24E-05	
70	6.32E-05	
71	6.38E-05	
72	6.45E-05	
73	6.51E-05	
74	6.57E-05	
75	6.63E-05	
76	6.68E-05	
77	6.73E-05	
78	6.78E-05	
79	6.82E-05	
80	6.86E-05	
81	6.9E-05	
82	6.94E-05	
83	6.98E-05	
84	7.01E-05	
85	7.04E-05	



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

April 28, 2015

THE RALPH R & BETH POCOCK FAMILY LTD PARTNERSHIP
2964 N 5000 E
SUGAR CITY ID 83448-1212

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NO(S). 22-2175B AND 22-7336**

Dear Renter:

Please find enclosed a receipt in the amount of **\$3,065.10** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 180.3 acre-feet of water for irrigation of 51.5 acres during 2015. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

Pursuant to the Water Supply Bank Rules, 90% or \$2,758.59 of the rental fee will be paid to the lessor(s) and 10% or \$306.51 will be retained by the Department to offset administrative costs.

If you have any questions, please contact me at (208) 287-4946.

Sincerely,

For — Michele Edl
Senior Water Resource Agent

Enclosure(s): Receipt No. C100361
Rental Agreement (copy)

c: Sascha Marston – Fiscal
James Cefalo – IDWR Eastern Regional Office
Bryce Contor – Rocky Mountain Environmental Assoc Inc



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

April 10, 2015

THE RALPH R & BETH POCOCK FAMILY LTD PARTNERSHIP
2964 N 5000 E
SUGAR CITY ID 83448

**RE: APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK
WATER RIGHT NO(S). 22-2175B AND 22-7336**

*****TIME SENSITIVE RESPONSE REQUIRED*****

Dear Applicant:

The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. **I have enclosed a Water Supply Bank Rental Agreement for your review and signature.** Upon signature and return of the original agreement, together with the rental fee described below, the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of \$3,065.10 was calculated based on the current rental rate of \$17.00 per acre-foot times a diversion volume of 180.3 acre-feet.

Please send a check for \$3,065.10 made payable to the Idaho Department of Water Resources, **together with the signed rental agreement, within 14 days** so I can complete processing. Pursuant to the Water Supply Bank Rules, 90% or \$2,758.59 of the rental fee will be paid to the lessor(s) and 10% or \$306.51 will be retained by the Department to offset administrative costs.

If you have any questions, please contact me at (208) 287-4946.

Sincerely,

for 
Michelle Edl
Water Resource Agent Senior
WSB Process Point of Contact
Enclosure(s)

c: IDWR Front Desk
Bryce Contor – Rocky Mountain Environmental
James Cefalo – Eastern Region Manager



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

April 7, 2015

ROCKY MOUNTAIN ENVIRONMENTAL ASSOCIATES, INC
482 CONSTITUTION WY STE 303
IDAHO FALLS ID 83402

RE: ESPA modeling needed

Dear Mr. Contor:

I have reviewed the revised WSB rental application and revised modeling that you provided on behalf of Mr. Ray Pocock's for the 2015 irrigation season.

I understand that your client is willing to reduce the number of acres that he will put into irrigation so as to fit within the limitations of the rental water available. And I see that you have eliminated the pair of surface water and ground water rights which I found problematic to model.

However, I found the revised modeling that you provided to be confusing. The screen shots of the data entry do not appear correct for the priority dates, the dates of use or non-use, and the volumes of water put to use before, during, and after the proposed rental are all zero. Rather than results of a modeling run, it appears to be a pre-modeling set-up.

In brief, the revised modeling that you provided does not give us the required evidence that existing water rights will not be injured. I will continue to suspend action on this rental request until Friday, April 10, 2015. If I have not received acceptable modeling of the rental by the end of the day on Friday, I will return the rental application unprocessed.

If you have any questions, please contact me at 208-287-4946.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Michele Edl', is written over a light blue horizontal line.

Michele Edl (E.I.T.)

Edl, Michele

From: bcontor.rm@gmail.com on behalf of Bryce Contor
[bcontor@rockymountainenvironmental.com]
Sent: Tuesday, April 07, 2015 8:23 PM
To: Edl, Michele
Subject: Re: ESPA modeling for Ray Pocock rental
Attachments: Pocock_Modeling_20150407.xls

Michele -

I am sorry the modeling was confusing to you. Please accept the attached and apply the number of acres it authorizes.

Thanks,

Bryce

On Tue, Apr 7, 2015 at 3:06 PM, Edl, Michele <Michele.Edl@idwr.idaho.gov> wrote:

> Bryce,
> I have reviewed the modeling you sent and found it to be confusing at best. I haven't talked to Ms Sukow but my interpretation of your modeling doesn't have much to do with the version I use. I didn't see any water volume used and then idled from either right. Are these the modeling runs you meant to send?
> I suspect you are over-thinking this. So I have attached the model data-entry and run that I used for Mr. Pocock's application.
> The Etransfer utility shows that the proposed rental doesn't need additional mitigation. I need to see something similar from you.
>
> WSB coordinators have been directed me to send you a formal letter via email later today. I am to hold you to the Friday deadline and to expect acceptable modeling from you by then or these rental rights will go to the next in line.
>
> The list of WRs on the website is very up to date. I don't see any more leases from B22.
> Michele
>

> -----Original Message-----

> From: bcontor.rm@gmail.com [mailto:bcontor.rm@gmail.com] On Behalf Of
> Bryce Contor
> Sent: Thursday, April 02, 2015 7:56 PM
> To: Edl, Michele
> Subject: Re: ESPA modeling for Ray Pocock rental
>

> Thanks -
>

> 1) Regarding questions 1 through 4, I think we are on the same page.
> You've described the requirements as I have understood them, and as I thought I had met. I will double check to confirm.
> 2) Regarding question 5, I think my question was not clear. I understand that I need to rent all the elements of the right, proportionally. I assumed that was implicit in identifying a right to be rented. I meant to ask about the modeling; is it acceptable to MODEL actual proposed use?
> 3) Regarding question 6, are you telling me that there is no analysis I can provide for the out-of-ESPAM rights, which IDWR will consider for a 2015-season rental?

> 4) I will prowl around again on the online database of available rights. Do you know, is it current?

>

> Thanks,

>

> Bryce

>

> On Tue, Mar 31, 2015 at 7:25 PM, Bryce Contor <bcontor@rockymountainenvironmental.com> wrote:

>> Michele -

>>

>> I apologize for confusion in the application. I understand the need
>> to avoid enlargement and worked very hard to avoid it. In fact, that
>> is the reason for renting the out-of-basin rights; modeling showed
>> that even without renting those rights there was no volume harm to
>> any modeled reach. Nevertheless, we added those rights explicitly
>> to avoid enlargement of acreage and diversion rate. I tried to
>> explain that in the narrative but obviously failed.

>>

>> I did intend that the full volume per acre of the candidate rights be
>> rented, and I did think that is what I had done. We did not
>> necessarily intend to rent the full acreage of a given right, but I
>> will double check that we proposed renting the full diversion volume
>> for the portions of rights we did propose renting.

>>

>> Regarding the out-of-basin rights, it is true that we did not model
>> the benefits that those rentals would provide to the aquifer. We DID
>> model the full effect of pumping those rights at the proposed rental
>> location ("to" POD). All the proposed extraction from the aquifer is
>> fully modeled. Therefore, we were conservative in fully representing the
>> negative effect to the aquifer but under-representing the positive
>> effects to the aquifer. Hence, if the modeling is deficient in any
>> way, it is only deficient in under-representing the benefits of the
>> transaction.

>>

>> As you know, the model does not extend to the locations of those
>> rented rights. Nevertheless, I will perform analysis for the
>> benefits that those rentals provide to reaches hydraulically
>> connected to the ESPA, and include them in the revised report. Of
>> necessity these will be subject to more uncertainty than analysis of
>> rights within the model boundary. Since all proposed pumping has
>> already been fully represented in modeling, the revised modeling will
>> only show an increase in net benefit to the aquifer. Therefore, I
>> think there is no potential harm from this additional uncertainty.

>>

>> The technically correct method of analyzing the out-of-basin PODs
>> would be to apply an analytical method to estimate their effect upon
>> the Teton River, and then propagate effects from the Teton River to
>> the Henrys Fork. This is appropriate because the effects of pumping
>> will not immediately reach the Henrys Fork, and neither will the
>> propagation of effects through the Teton Valley Aquifer to the Teton
>> River immediately reach the Henrys Fork. We have good input
>> information to perform this analysis in the aquifer properties
>> derived by Dr. Van Kirk in a USDA-funded study. However, there is a
>> cleaner and more straightforward method, which has been used in the
>> past (though not to my knowledge for rights as distant as these).
>> That is to find the nearest grid cell that is within the model, and

>> represent the out-of-basin pumping as if it occurred there. Since
>> the Teton Basin is fully tributary to the Snake Plain Basin, this is
>> full valid on a water-budget and enlargement basis. Its advantage is
>> that it can be performed with the transfer tool. If it has a
>> deficiency, it only is in nuances of timing and location of benefit.
>> Given that all reaches are kept whole even without these out-of-basin
>> rights, I can in good conscience accept either approach.
>>
>> Finally, your letter does not speak to the proposed volume per acre
>> at the "to" location, but I wonder if that is part of your concern.
>>
>> In summary, please help me with some clarifications:
>>
>> 1) Is it acceptable to rent only a portion of a right? For instance
>> if right X is for 350 acre feet per acre on 100 acres with 2.0 cfs,
>> is it acceptable to rent 175 acre feet for use on 50 acres with 1.0 cfs?
>> 2) I assume that full acreage must be rented, in order to prevent
>> enlargement. For instance, if the "to" place of use is 100 acres, I
>> assume that the sum of authorized acreage on all the rented places of
>> use must equal or exceed 100 acres. Is this correct?
>> 3) I assume that full volume must be rented, in order to prevent
>> enlargement. For instance, if 250 acre feet are proposed to be
>> rented, the sum of authorized volumes on the rented rights must equal
>> or exceed 250 acre feet. Is this correct?
>> 4) I assume that the full required diversion rate must be rented, in
>> order to prevent enlargement. For instance, if 5.0 cfs are needed at
>> the "to" location, the sum of the authorized diversion rates of
>> rented rights must equal or exceed 5.0 cfs. Is this correct?
>> 5) Is it acceptable to model the required volume at the "to"
>> location for the crops to be grown, or must the IDWR standard volume
>> for alfalfa, for that basin, be represented?
>> 6) For the out-of-basin rights, do you prefer the more correct, or
>> more straightforward, analysis?
>>
>> I await your response, and will begin the revised analysis as soon as
>> these issues are clarified. It will not be trivial to do this work,
>> so please let me know as soon as possible.
>>
>> Thanks,
>>
>> Bryce
>>
>> On Tue, Mar 31, 2015 at 11:04 AM, Edl, Michele
>> <Michele.Edl@idwr.idaho.gov> wrote:
>>> Mr. Contor,
>>>
>>> I have completed my review of the application submitted on behalf of Mr.
>>> Pocock's to rent water from the IWRB's Water Supply Bank (WSB) for
>>> the 2015 irrigation season. I have two concerns that will need to be
>>> addressed before I can complete the processing of Mr. Pocock's application.
>>>
>>>
>>>
>>> First, I see that you modeled the minimum volume that Mr. Pocock
>>> requested in his application. However, the WSB requires that the
>>> full volume of a candidate right be rented whether or not the full volume is actually
>>> used.

>>> This policy helps prevent enlargement in the use of a right.
>>>
>>> Based on your modeling of the minimum volume, Mr. Pocock would be
>>> authorized to fully irrigate only 32.5 acres of the 57 acres that he
>>> would like to cover.
>>>
>>>
>>>
>>> Second, I see that you listed a pair of rights whose
>>> points-of-diversion are outside the ESPA modeling grid. I suspect
>>> that you are aware of the limitations of the transfer tool utility that I use to verify
ESPA modeling.
>>> if I can't model the use and estimate the potential injury, I can't
>>> process the rental request.
>>>
>>> Broadly speaking, any new diversion from the ESPA must be mitigated.
>>> If a diversion formerly located outside of the ESPA, is now
>>> diverting from the ESPA, it is in essence a new diversion from the
>>> aquifer. A request to rent rights 22-13814 and 22-13816 to Mr.
>>> Pocock would be a new diversion from the ESPA. I would have to
>>> assume that use of those rights at the rental place-of-use would
>>> negatively impact the aquifer and would not authorize that use.
>>>
>>>
>>>
>>> Therefore, I am requesting that you re-model the 2015 WSB rental for Mr.
>>> Pocock. I have also been directed to hold you to a very tight
>>> time-frame because there are rental proposals waiting in line to
>>> rent the rights listed in Mr. Pocock's application.
>>>
>>> Within 10 days, please submit revised modeling of the impact to the
>>> ESPA due to Mr. Pocock's proposed rental. That modeling must show
>>> the impact of the full volume of the proposed rights. If I don't
>>> receive the revised modeling on or before April 10, 2015, I will
>>> return Mr. Pocock's rental application unprocessed.
>>>
>>>
>>>
>>> Respectfully,
>>>
>>> Michele Edl
>>>
>>> 208-287-4946
>>
>>
>>
>> --
>> Bryce A. Contor
>> Senior Hydrologist
>>
>> 482 Constitution, Idaho Falls, ID 83402
>> E-Mail: bcontor@rockymountainenvironmental.com
>> Alt. E-Mail: bcontor.rm@gmail.com
>> VOICE: 208-524-2353 ||| FAX: 208-524-1795 ||| CELL: 208-681-9100
>> _____
>>
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>

>

>

> --

> Bryce A. Contor

> Senior Hydrologist

>

> 482 Constitution, Idaho Falls, ID 83402

> E-Mail: bcontor@rockymountainenvironmental.com

> Alt. E-Mail: bcontor.rm@gmail.com

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--

Bryce A. Contor

Senior Hydrologist

482 Constitution, Idaho Falls, ID 83402

E-Mail: bcontor@rockymountainenvironmental.com

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sender or collect telephone call to (208) 524-2353. Thank you.

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPARTMENT OF AGRICULTURE

Cells this color are set up for user entries

ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR 1955

TRANSFER NAME

SEASON SPRING

Pocock south To

ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	65	61	61	0
COLUMN	192	182	184	0

TRIMESTER OF ACTIVITY	TO WELL	FROM1 WELL		FROM2 WELL		FROM3 WELL	
	Projected Use AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1955	0	0	0	0	0	0	0
SUM 1955	0	0	0	0	0	0	0
WIN 1955	0	0	0	0	0	0	0
SPR 1956	0	0	0	0	0	0	0
SUM 1956	0	0	0	0	0	0	0
WIN 1956	0	0	0	0	0	0	0
SPR 1957	0	0	0	0	0	0	0
SUM 1957	0	0	0	0	0	0	0
WIN 1957	0	0	0	0	0	0	0
SPR 1958	0	0	0	0	0	0	0
SUM 1958	0	0	0	0	0	0	0
WIN 1958	0	0	0	0	0	0	0
SPR 1959	0	0	0	0	0	0	0
SUM 1959	0	0	0	0	0	0	0
WIN 1959	0	0	0	0	0	0	0
SPR 1960	0	46	46	0	0	0	0
SUM 1960	0	46	46	0	0	0	0
WIN 1960	0	46	46	0	0	0	0
SPR 1961	0	46	46	0	0	0	0
SUM 1961	0	46	46	0	0	0	0
WIN 1961	0	46	46	0	0	0	0
SPR 1962	0	46	46	0	0	0	0
SUM 1962	0	46	46	0	0	0	0
WIN 1962	0	46	46	0	0	0	0
SPR 1963	0	46	46	0	0	0	0
SUM 1963	0	46	46	0	0	0	0
WIN 1963	0	46	46	0	0	0	0
SPR 1964	0	46	46	0	0	0	0
SUM 1964	0	46	46	0	0	0	0
WIN 1964	0	46	46	0	0	0	0
SPR 1965	0	46	46	0	0	0	0
SUM 1965	0	46	46	0	0	0	0
WIN 1965	0	46	46	0	0	0	0
SPR 1966	0	46	46	0	0	0	0
SUM 1966	0	46	46	0	0	0	0
WIN 1966	0	46	46	0	0	0	0
SPR 1967	0	46	46	0	0	0	0
SUM 1967	0	46	46	0	0	0	0
WIN 1967	0	46	46	0	0	0	0
SPR 1968	0	46	46	0	0	0	0
SUM 1968	0	46	46	0	0	0	0
WIN 1968	0	46	46	0	0	0	0
SPR 1969	0	46	46	0	0	0	0
SUM 1969	0	46	46	0	0	0	0
WIN 1969	0	46	46	0	0	0	0
SPR 1970	0	46	46	0	0	0	0
SUM 1970	0	46	46	0	0	0	0
WIN 1970	0	46	46	0	0	0	0
SPR 1971	0	46	46	0	0	0	0

SUM 1971	0	46	46	0	0	0	0
WIN 1971	0	46	46	0	0	0	0
SPR 1972	0	46	46	0	0	0	0
SUM 1972	0	46	46	0	0	0	0
WIN 1972	0	46	46	0	0	0	0
SPR 1973	0	46	46	0	0	0	0
SUM 1973	0	46	46	0	0	0	0
WIN 1973	0	46	46	0	0	0	0
SPR 1974	0	46	46	0	0	0	0
SUM 1974	0	46	46	0	0	0	0
WIN 1974	0	46	46	0	0	0	0
SPR 1975	0	46	46	0	0	0	0
SUM 1975	0	46	46	0	0	0	0
WIN 1975	0	46	46	0	0	0	0
SPR 1976	0	46	46	0	0	0	0
SUM 1976	0	46	46	0	0	0	0
WIN 1976	0	46	46	0	0	0	0
SPR 1977	0	46	46	0	0	0	0
SUM 1977	0	46	46	0	0	0	0
WIN 1977	0	46	46	0	0	0	0
SPR 1978	0	46	46	0	0	0	0
SUM 1978	0	46	46	0	0	0	0
WIN 1978	0	46	46	0	0	0	0
SPR 1979	0	46	46	0	0	0	0
SUM 1979	0	46	46	0	0	0	0
WIN 1979	0	46	46	0	0	0	0
SPR 1980	0	46	46	0	0	0	0
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WIN 1980	0	46	46	15	15	0	0
SPR 1981	0	46	46	15	15	0	0
SUM 1981	0	46	46	15	15	0	0
WIN 1981	0	46	46	15	15	0	0
SPR 1982	0	46	46	15	15	0	0
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SPR 1983	0	46	46	15	15	0	0
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WIN 1984	0	46	46	15	15	0	0
SPR 1985	0	46	46	15	15	0	0
SUM 1985	0	46	46	15	15	0	0
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SPR 1992	0	46	46	15	15	0	0
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SPR 1994	0	46	46	15	15	0	0
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WIN 1994	0	46	46	15	15	0	0
SPR 1995	0	46	46	15	15	0	0
SUM 1995	0	46	46	15	15	0	0
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SPR 1996	0	46	46	15	15	0	0
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SPR 1998	0	46	46	15	15	0	0
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WIN 1998	0	46	46	15	15	0	0
SPR 1999	0	46	46	15	15	0	0

SUM 1999	0	46	46	15	15	0	0
WIN 1999	0	46	46	15	15	0	0
SPR 2000	0	46	46	15	15	0	0
SUM 2000	0	46	46	15	15	0	0
WIN 2000	0	46	46	15	15	0	0
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WIN 2001	0	46	46	15	15	0	0
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SUM 2002	0	46	46	15	15	0	0
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SPR 2004	0	46	46	15	15	0	0
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SPR 2005	0	46	46	15	15	0	0
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SPR 2006	0	46	46	15	15	0	0
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WIN 2007	0	46	46	15	15	0	0
SPR 2008	0	46	46	15	15	0	0
SUM 2008	0	46	46	15	15	0	0
WIN 2008	0	46	46	15	15	0	0
SPR 2009	0	46	46	15	15	0	0
SUM 2009	0	46	46	15	15	0	0
WIN 2009	0	46	46	15	15	0	0
SPR 2010	0	46	46	15	15	0	0
SUM 2010	0	46	46	0	15	0	0
WIN 2010	0	46	46	0	15	0	0
SPR 2011	0	46	46	0	15	0	0
SUM 2011	0	46	46	0	15	0	0
WIN 2011	0	46	46	0	15	0	0
SPR 2012	0	46	46	0	15	0	0
SUM 2012	0	46	46	0	15	0	0
WIN 2012	0	46	46	0	15	0	0
SPR 2013	0	46	46	0	15	0	0
SUM 2013	0	46	46	0	15	0	0
WIN 2013	0	46	46	0	15	0	0
SPR 2014	0	46	46	0	15	0	0
SUM 2014	0	46	46	0	15	0	0
WIN 2014	0	46	46	0	15	0	0
SPR 2015	60	0	46	0	15	0	0
SUM 2015	60	0	46	0	15	0	0
WIN 2015	60	0	46	0	15	0	0
SPR 2016	0	46	46	15	15	0	0
SUM 2016	0	46	46	15	15	0	0
WIN 2016	0	46	46	15	15	0	0
SPR 2017	0	46	46	15	15	0	0
SUM 2017	0	46	46	15	15	0	0
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SPR 2018	0	46	46	15	15	0	0
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SPR 2019	0	46	46	15	15	0	0
SUM 2019	0	46	46	15	15	0	0
WIN 2019	0	46	46	15	15	0	0
SPR 2020	0	46	46	15	15	0	0
SUM 2020	0	46	46	15	15	0	0
WIN 2020	0	46	46	15	15	0	0
SPR 2021	0	46	46	15	15	0	0
SUM 2021	0	46	46	15	15	0	0
WIN 2021	0	46	46	15	15	0	0
SPR 2022	0	46	46	15	15	0	0
SUM 2022	0	46	46	15	15	0	0
WIN 2022	0	46	46	15	15	0	0
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SPR 2024	0	46	46	15	15	0	0
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WIN 2024	0	46	46	15	15	0	0
SPR 2025	0	46	46	15	15	0	0
SUM 2025	0	46	46	15	15	0	0
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SPR 2026	0	46	46	15	15	0	0
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WIN 2026	0	46	46	15	15	0	0
SPR 2027	0	46	46	15	15	0	0

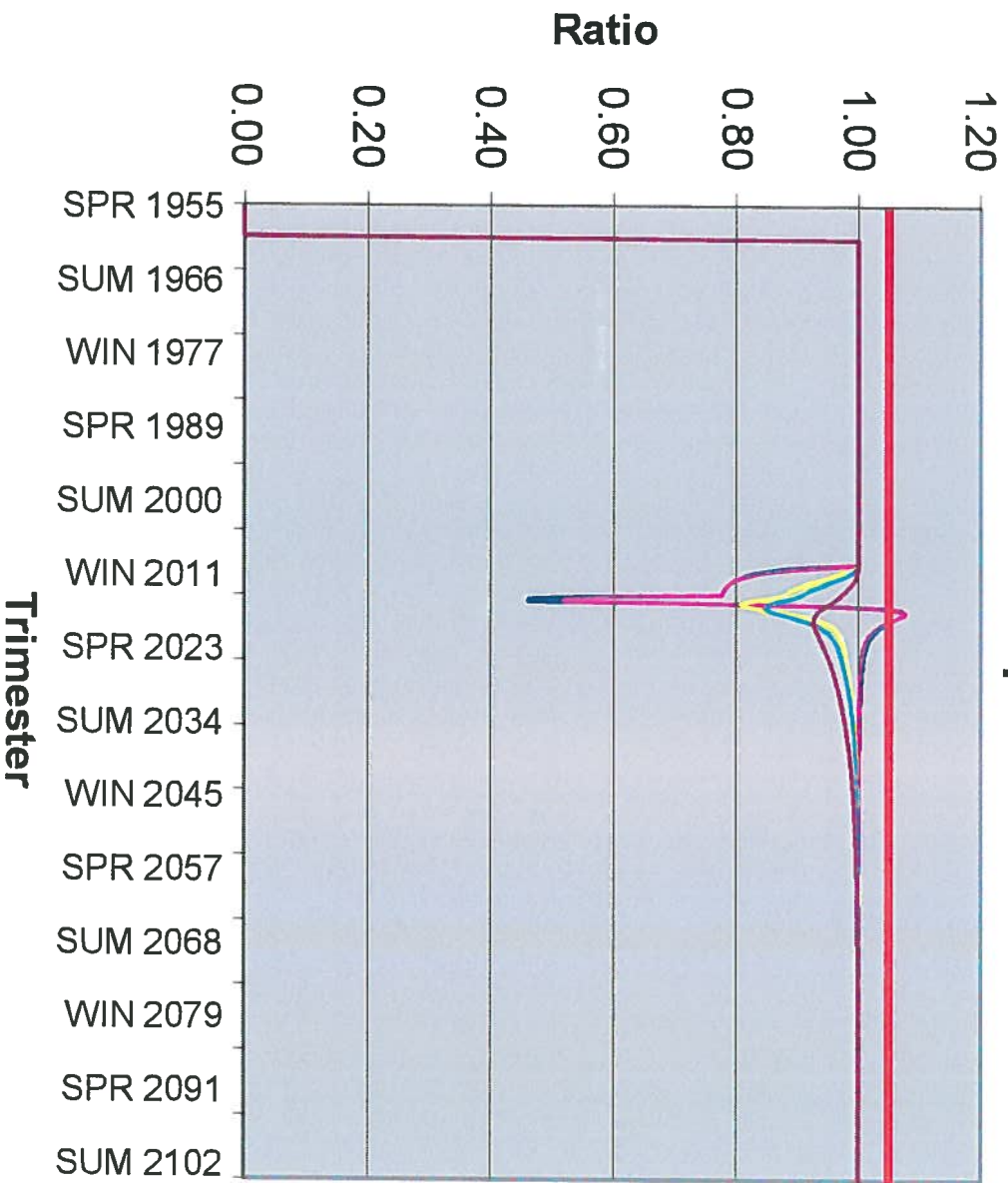
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SPR 2030	0	46	46	15	15	0	0
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WIN 2030	0	46	46	15	15	0	0
SPR 2031	0	46	46	15	15	0	0
SUM 2031	0	46	46	15	15	0	0
WIN 2031	0	46	46	15	15	0	0
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SUM 2032	0	46	46	15	15	0	0
WIN 2032	0	46	46	15	15	0	0
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SUM 2033	0	46	46	15	15	0	0
WIN 2033	0	46	46	15	15	0	0
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SUM 2034	0	46	46	15	15	0	0
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SPR 2035	0	46	46	15	15	0	0
SUM 2035	0	46	46	15	15	0	0
WIN 2035	0	46	46	15	15	0	0
SPR 2036	0	46	46	15	15	0	0
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SPR 2038	0	46	46	15	15	0	0
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WIN 2038	0	46	46	15	15	0	0
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WIN 2039	0	46	46	15	15	0	0
SPR 2040	0	46	46	15	15	0	0
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WIN 2040	0	46	46	15	15	0	0
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SUM 2048	0	46	46	15	15	0	0
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SPR 2049	0	46	46	15	15	0	0
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SPR 2052	0	46	46	15	15	0	0
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SPR 2055	0	46	46	15	15	0	0

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SPR 2056	0	46	46	15	15	0	0
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SPR 2057	0	46	46	15	15	0	0
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SPR 2058	0	46	46	15	15	0	0
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SPR 2059	0	46	46	15	15	0	0
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SPR 2061	0	46	46	15	15	0	0
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SPR 2103	0	46	46	15	15	0	0
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SPR 2104	0	46	46	15	15	0	0
SUM 2104	0	46	46	15	15	0	0
WIN 2104	0	46	46	15	15	0	0

4	Neeley	Minidoka	Buhl	Kspr	Malad	Bancroft	period	Asht to Rex	Heise to Sh	Shelley to Nr	Bickft t Neeley to	DWB to B	Buhl to Ks	Kspr	Kspr to M	Malad	Me
180	-0.08356	-0.00043	-6.3E-05	-2.2E-05	-1.4E-05	-1.5E-06	-1.3E-05	-4.2E-07	SUM 2013	0.79	0.79	0.90	0.94	0.99	1.00	1.00	1.00
181	-0.09436	-0.00053	-9E-05	-3.2E-05	-2E-05	-2.2E-06	-1.9E-05	-6.2E-07	WIN 2013	0.78	0.78	0.90	0.93	0.98	1.00	1.00	1.00
182	-0.10455	-0.00075	-0.00012	-4.5E-05	-2.8E-05	-3E-06	-2.6E-05	-8.6E-07	SPR 2014	0.78	0.78	0.89	0.92	0.98	1.00	1.00	1.00
183	-0.11412	-0.00064	-0.00016	-6E-05	-3.8E-05	-4.1E-06	-3.5E-05	-1.2E-06	SUM 2014	0.78	0.78	0.88	0.91	0.98	0.99	1.00	1.00
184	-0.12309	-0.00087	-0.00021	-7.8E-05	-4.9E-05	-5.3E-06	-4.6E-05	-1.5E-06	WIN 2014	0.78	0.78	0.88	0.91	0.97	0.99	0.99	0.99
185	-0.13383	-0.001	-0.00027	-9.8E-05	-6.2E-05	-6.6E-06	-5.7E-05	-1.9E-06	SPR 2015	0.55	0.60	0.86	0.90	0.97	0.99	0.99	0.99
186	-0.14882	-0.00114	-0.00033	-0.00012	-7.6E-05	-8.2E-06	-7.1E-05	-2.4E-06	SUM 2015	0.46	0.52	0.84	0.89	0.96	0.99	0.99	0.99
187	-0.16819	-0.00129	-0.00039	-0.00015	-9.2E-05	-1E-05	-8.6E-05	-2.9E-06	WIN 2015	0.46	0.52	0.82	0.87	0.96	0.99	0.99	0.99
188	-0.18686	-0.00147	-0.00047	-0.00017	-0.00011	-1.2E-05	-0.0001	-3.5E-06	SPR 2016	0.80	0.77	0.81	0.86	0.95	0.98	0.99	0.99
189	-0.19865	-0.00164	-0.00055	-0.00021	-0.00013	-1.4E-05	-0.00012	-4.1E-06	SUM 2016	0.97	0.94	0.81	0.85	0.95	0.98	0.98	0.98
190	-0.20062	-0.00182	-0.00064	-0.00024	-0.00015	-1.6E-05	-0.00014	-4.8E-06	WIN 2016	1.04	1.03	0.83	0.85	0.94	0.98	0.98	0.98
191	-0.19352	-0.00196	-0.00074	-0.00028	-0.00018	-1.9E-05	-0.00016	-5.5E-06	SPR 2017	1.07	1.07	0.85	0.85	0.94	0.98	0.98	0.98
192	-0.1801	-0.00208	-0.00084	-0.00032	-0.0002	-2.2E-05	-0.00019	-6.4E-06	SUM 2017	1.08	1.08	0.88	0.86	0.93	0.97	0.97	0.97
193	-0.16346	-0.00217	-0.00094	-0.00036	-0.00023	-2.5E-05	-0.00021	-7.2E-06	WIN 2017	1.07	1.08	0.90	0.87	0.93	0.97	0.97	0.97
194	-0.14604	-0.00223	-0.00105	-0.0004	-0.00028	-2.7E-05	-0.00024	-8.1E-06	SPR 2018	1.07	1.07	0.92	0.89	0.93	0.97	0.97	0.97
1	-0.12945	-0.00226	-0.00116	-0.00044	-0.00028	-3E-05	-0.00026	-8.9E-06	SUM 2018	1.06	1.06	0.93	0.90	0.93	0.96	0.96	0.96
195	-0.11455	-0.00227	-0.00126	-0.00048	-0.0003	-3.3E-05	-0.00028	-9.8E-06	WIN 2018	1.05	1.05	0.94	0.91	0.93	0.96	0.96	0.96
197	-0.10165	-0.00226	-0.00135	-0.00052	-0.00033	-3.6E-05	-0.00031	-1.1E-05	SPR 2019	1.05	1.04	0.95	0.92	0.93	0.96	0.96	0.96
198	-0.09075	-0.00224	-0.00143	-0.00055	-0.00035	-3.8E-05	-0.00033	-1.1E-05	SUM 2019	1.04	1.04	0.96	0.93	0.93	0.95	0.95	0.95
199	-0.08167	-0.00221	-0.00151	-0.00058	-0.00037	-4E-05	-0.00035	-1.2E-05	WIN 2019	1.03	1.03	0.96	0.94	0.93	0.95	0.95	0.95
200	-0.07418	-0.00218	-0.00157	-0.00061	-0.00038	-4.2E-05	-0.00036	-1.3E-05	SPR 2020	1.03	1.03	0.96	0.94	0.93	0.95	0.95	0.95
201	-0.068	-0.00213	-0.00162	-0.00063	-0.0004	-4.4E-05	-0.00038	-1.3E-05	SUM 2020	1.03	1.02	0.97	0.95	0.93	0.95	0.95	0.95
202	-0.0629	-0.00209	-0.00167	-0.00065	-0.00041	-4.5E-05	-0.00039	-1.3E-05	SPR 2021	1.02	1.02	0.97	0.95	0.93	0.95	0.95	0.95
203	-0.05866	-0.00204	-0.0017	-0.00066	-0.00044	-4.6E-05	-0.0004	-1.4E-05	SUM 2021	1.02	1.01	0.97	0.96	0.94	0.95	0.95	0.95
204	-0.05511	-0.00199	-0.00173	-0.00067	-0.00043	-4.7E-05	-0.00041	-1.4E-05	WIN 2021	1.02	1.01	0.97	0.96	0.94	0.94	0.94	0.94
205	-0.0521	-0.00193	-0.00175	-0.00068	-0.00043	-4.7E-05	-0.00041	-1.4E-05	SPR 2022	1.02	1.01	0.97	0.96	0.94	0.94	0.94	0.94
206	-0.04951	-0.00188	-0.00176	-0.00068	-0.00043	-4.8E-05	-0.00041	-1.4E-05	SUM 2022	1.01	1.01	0.97	0.96	0.94	0.94	0.94	0.94
207	-0.04725	-0.00183	-0.00176	-0.00069	-0.00044	-4.8E-05	-0.00041	-1.4E-05	WIN 2022	1.01	1.01	0.98	0.96	0.94	0.94	0.94	0.94
208	-0.04524	-0.00178	-0.00176	-0.00069	-0.00044	-4.8E-05	-0.00041	-1.5E-05	SUM 2022	1.01	1.01	0.98	0.97	0.94	0.94	0.94	0.94
209	-0.04344	-0.00173	-0.00176	-0.00069	-0.00044	-4.8E-05	-0.00041	-1.5E-05	SPR 2023	1.01	1.01	0.98	0.97	0.94	0.94	0.94	0.94
210	-0.04179	-0.00168	-0.00175	-0.00068	-0.00043	-4.8E-05	-0.00041	-1.5E-05	WIN 2023	1.01	1.01	0.98	0.97	0.95	0.95	0.94	0.94
211	-0.04026	-0.00164	-0.00174	-0.00068	-0.00043	-4.8E-05	-0.00041	-1.4E-05	SPR 2023	1.01	1.01	0.98	0.97	0.95	0.95	0.94	0.94
212	-0.03883	-0.00159	-0.00173	-0.00067	-0.00043	-4.7E-05	-0.00041	-1.4E-05	WIN 2024	1.01	1.01	0.98	0.97	0.95	0.95	0.95	0.95
213	-0.03748	-0.00155	-0.00171	-0.00067	-0.00042	-4.7E-05	-0.0004	-1.4E-05	SUM 2024	1.01	1.01	0.98	0.97	0.95	0.95	0.95	0.95
2-	-0.03619	-0.00151	-0.0017	-0.00066	-0.00042	-4.6E-05	-0.0004	-1.4E-05	WIN 2024	1.01	1.00	0.98	0.97	0.95	0.95	0.95	0.95
2-	-0.03495	-0.00147	-0.00168	-0.00065	-0.00042	-4.6E-05	-0.0004	-1.4E-05	SPR 2025	1.01	1.00	0.98	0.97	0.95	0.95	0.95	0.95
216	-0.03377	-0.00143	-0.00166	-0.00065	-0.00041	-4.5E-05	-0.00039	-1.4E-05	WIN 2025	1.01	1.00	0.98	0.97	0.95	0.95	0.95	0.95
217	-0.03261	-0.00139	-0.00164	-0.00064	-0.00041	-4.5E-05	-0.00039	-1.4E-05	SPR 2025	1.01	1.00	0.98	0.98	0.96	0.95	0.95	0.95
218	-0.0315	-0.00136	-0.00162	-0.00063	-0.0004	-4.4E-05	-0.00038	-1.4E-05	WIN 2026	1.01	1.00	0.98	0.98	0.96	0.95	0.95	0.95
219	-0.03042	-0.00132	-0.00159	-0.00062	-0.00039	-4.4E-05	-0.00038	-1.3E-05	SUM 2026	1.01	1.00	0.98	0.98	0.96	0.95	0.95	0.95
220	-0.02937	-0.00129	-0.00157	-0.00061	-0.00039	-4.3E-05	-0.00037	-1.3E-05	WIN 2026	1.01	1.00	0.98	0.98	0.96	0.95	0.95	0.95

Change Above Milner as Ratio of Impact With Transfer Above Milner as Ratio of Impact Without Transfer



- Asht to Rexburg
- Heise to Shelley
- Shelley to Nr. Blckft.
- Nr. Blckft to Neeley
- Neeley to Minidoka
- 5% Limit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	TOTAL EFFECT WITH TRANSFER (AF four months)																					
2	Action to Heide to Shelley to Mr Bickel Neely to Dev Wbl Bunl to Kspr Kspr to Maid Maid to Bancroft																					
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13	TO WELL EFFECTS (AF four months)																					
14	Ashlon to Heide to Shelley to Mr Bickel Neely to Dev Wbl Bunl to Kspr Kspr to Maid Maid to Bancroft																					
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Enter First Time Step of Transfer: SPR 2015

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Mitigation Analysis Period

Time: 1/1/2024

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(CFS)	(AF/A)		Acres	Date			AF/A AFT	Node

Transfer 1: Proposed Steady State Impacts following Transfer

14	???	???	275.6	68.9	1/1/1960	8526E-3	275.6	91.9	SP082075
15	???	???	275.6	68.9	1/1/1960	8526E-3	275.6	91.9	SP088066

Transfer 1: Worst Case Transient State Impacts following Transfer

17	???	???	275.6	68.9	1/1/1960	8526E-3	275.6	91.9	SP082075
18	???	???	275.6	68.9	1/1/1960	8526E-3	275.6	91.9	SP088066

Steady State Analysis

Mitigation Check 1 - > 10% of Historical:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2 - > 2 AFT:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Check 3 - > 10% of Total:	54.1%	41.9%	1.7%	2.2%	0.1%	0.0%	0.0%	0.0%	0.0%
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Analysis

Mitigation Check 1 - > 10% of Historical:	7.6%	7.6%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
Mitigation Check 2 - > 2.01 AFT:	2.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	2.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Read Me

Not Used

Impact by Reach (AFT/Time)

W/R No.	Div.	Rate	Con. Vol.	No. of Ir.	Priority	POD	Dedicated Vol.	Model
(CFS)	(AF/A)		Acres	Date			AF/A AFT	Node

Transfer: Proposed Steady State Impacts following Transfer

39	0	0	0	0	1/01/1900	0	0	0	0
40	0	0	0	0	1/01/1900	0	0	0	0

Transfer 1: Worst Case Transient State Impacts following Transfer

41	0	0	0	0	1/01/1900	0	0	0	0
42	0	0	0	0	1/01/1900	0	0	0	0

Steady State Analysis

Mitigation Check 1 - > 10% of Historical:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2 - > 2 AFT:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Check 3 - > 10% of Total:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Analysis

Mitigation Check 1 - > 10% of Historical:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2 - > 2.01 AFT:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Introduction

Mit Eval - Transfers Only

Simple Example

Interpolator

Edl, Michele

From: Cefalo, James
Sent: Wednesday, April 08, 2015 12:43 PM
To: Edl, Michele
Subject: RE: Pocock 2015 WSB rental app

I'm happy to see that Mr. Pocock was able to find water through the WSB. I have no objections or concerns with the proposed rental.

From: Edl, Michele
Sent: Wednesday, April 08, 2015 11:45 AM
To: Cefalo, James
Subject: Pocock 2015 WSB rental app

James,

I have completed my review of the rental application submitted by Ray Pocock, (Bryce Contor consultant) for 2015.

Mr. Contor had some difficulty providing acceptable ESPA modeling. His initial proposal and companion analysis was overly complex, included rights which could not be modeled and in general could not be processed. WSB personnel coached him on acceptable volumes, acceptable rental rights and the Etransfer utility.

The rental POU will be rings around Mr. Pocock's 4 existing pivots. Because less water was available to rent, they will be narrower rings than last year. I have attached my review memo, and a jpg showing the general locations of the rental and lease PODs. Please give us your feedback about this application.

Thank you.
Michele

MEMORANDUM

To: Water Right(s) 22-2175B, and 22-7336

From: Michele Edl

Date: April 7, 2015

Re: Review & Analysis of Pocock Application to Rent Water from the State Water Supply Bank

PURPOSE/NARRATIVE: On April 6, 2014, Bruce Contor submitted an amended application on behalf of Ray Pocock to rent water from the State Water Supply Bank. The amended application replaced the initial application which was submitted on February 20, 2015. The amended application proposes to rent the above water rights to irrigate 51.5 acres in Twp 6N, Rge 41E, sec 24, for 2015. The 51.5 acres ring 4 existing pivots and are irrigated by the end-guns of those pivots

AUTHORITY TO FILE: According to available 2013 Madison County taxlot information, the proposed place-of-use is owned by the Pocock, Ralph & Beth Fam Lmt & Prt. The Ralph R. and Beth Pocock Family Limited Partnership is listed with ISOS as #L3323. Ray R Pocock is listed as a general partner and he signed the application.

The proposed PODs are two existing wells. They are the authorized PODs for water rights 22-7167A, 22-7052A, 22-2271D, 22-7439 22-14082, 22-14083 and 22-14084 which are held by The Ralph R & Beth Pocock Family Ltd Partnership.

WATER RIGHT VALIDITY: Water right 22-2175B has been leased to the WSB for the 2015 irrigation season.

Water Right 22-7336 has been leased to the WSB since the 2010 irrigation season. A review of 2013 aerial photography shows that a sufficient portion of the authorized place-of-use for the water right has been idled for the WSB lease.

INJURY TO OTHER WATER RIGHTS: The initial ESPA analysis provided by the consultant used the ESPAM2.1. rather than the Etransfer Excel utility. IDWR will accept analysis results from the full model, if acceptable data are used for each parameter. However, the consultant modeled the minimum volume his client needed rather than the full volume required by WSB processing standards. And the consultant provided an analysis which supported rental of paired surface water-ground water rights which were outside of the ESPA model grid. Those rights couldn't be modeled and if were diverted from the ESPA, presumed to injure existing water rights. I rejected the initial modeling and requested revised modeling. I demonstrated acceptable Etransfer modeling for the consultant. According to Modified_Etransfer_V3_1 results, no additional mitigation is required. No injury to other water rights is anticipated.

ENLARGEMENT OF USE: The 7 native water rights which are being used at the proposed rental POU share the same POU. The rental agreement will be issued with combined use limits on the rights.

The current season-of-use at the rental location is 4/1-10/31 and equivalent to the SOU for the rented rights.

LOCAL PUBLIC INTEREST: Review staff has no information to suggest this application is inconsistent with the local public interest.

BENEFICIAL USE/CONSERVATION OF WATER RESOURCES: The rental appears consistent with the conservation of water resources in Idaho.

DEPARTMENT STAFF OR WATERMASTER COMMENTS: Without the surface water right, the rented right(s) are not subject to a Water District. Eastern Region has been consulted and is not opposed to the rental.

One of the two wells is very near the center of the section. The consultant puts that same well in SWSWNE. The official POD location is NENESW but that location is within the potential rectification error of our aerial photography. Either PLS address puts that well in ESPA grid cell 64/192 for modeling. I did not require that the address of that well be corrected on the application.

Water Right No.	Rented Vol (AF)	Lessor Fee (90%)	Administrative Fee (10%)	Total Fee @ \$17 (2015-2017)	Rental Amounts		Lessor Fee (90%)	Administrative Fee (10%)	Total Fee @ \$20 (2018-2022)
					Rate	Acres			
22-21758	136.5	\$2,088.45	\$232.05	\$2,320.50	0.62	39.00			
22-7336	43.8	\$670.14	\$74.46	\$744.60	0.25	12.50			
Total	180.3	\$2,758.59	\$306.51	\$3,065.10	0.87	51.50		\$0.00	\$0.00
calculated by Michele Edl									
22-21758	rate	volume	acre	af/ac	cfs/ac	trimster volume			
leased	0.62	136.5	39	3.50	0.02				
requested	0.62	136.5	39			45.50			
	0	0	0		rental availability depleted				
22-7336	rate	volume	acre	af/ac	cfs/ac				
leased	1.64	287	82	3.50	0.02				
Sutton rental	1.39	243.2	69.5						
Sutton actual	0.92	161	46						
available	0.25	43.8	12.5	3.50	0.02	14.60			
requested	0.25	43.8	12.5						
	0	0	0		rental availability depleted	60.10			

Edl, Michele

From: bcontor.rm@gmail.com on behalf of Bryce Contor
[bcontor@rockymountainenvironmental.com]
Sent: Monday, April 06, 2015 4:53 PM
To: Edl, Michele
Subject: Amended application
Attachments: Pocock_Amended_Water_Supply_Bank_Application_Spring_2015.pdf

Michele -

I was able to visit on the phone with Sherri today, as you were out of town. I talked to the client and he would rather rent fewer acres than lose the rental, if that is what has to happen.

Sherri suggested that there may be additional rights available for rental which don't appear on the website. If so, we would very much like the opportunity to include those in the rental.

However, I am very conscious of Friday's deadline. Per your requirements I have redone the modeling with the full volume, even though Mr. Pocock will not be using that much water. I have also removed the out-of-ESPA right from the rental.

This revised analysis uses the new IDWR ESPAM2.1 transfer tool. Jennifer Sukow in the Technical Services Bureau can get you a copy. It only runs on certain computers but she has one it does run on. Unfortunately when it fails to run, it still generates output; however, the output is incorrect. If your results are different from mine please consult with Jennifer to decipher whether it was my runs or yours that failed.

Please review this and let me know if it is acceptable. If it is, and if Sherri is not able to identify additional rights, we will sign the application and overnight express a hard copy to meet Friday's deadline.

I will be unavailable tomorrow and Thursday. I hope to be available Wednesday.

Thanks,

Bryce

--

Bryce A. Contor
Senior Hydrologist

482 Constitution, Idaho Falls, ID 83402
E-Mail: bcontor@rockymountainenvironmental.com
Alt. E-Mail: bcontor.rm@gmail.com
VOICE: 208-524-2353 ||| FAX: 208-524-1795 ||| CELL: 208-681-9100

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received this communication. If error, please notify us immediately by reply email to the sender or collect telephone call to (208) 524-2353. Thank you.

Edl, Michele

From: bcontor.rm@gmail.com on behalf of Bryce Contor
[bcontor@rockymountainenvironmental.com]
Sent: Tuesday, March 31, 2015 5:25 PM
To: Edl, Michele
Subject: Re: ESPA modeling for Ray Pocock rental

Follow Up Flag: Follow up
Flag Status: Flagged

Michele -

I apologize for confusion in the application. I understand the need to avoid enlargement and worked very hard to avoid it. In fact, that is the reason for renting the out-of-basin rights; modeling showed that even without renting those rights there was no volume harm to any modeled reach. Nevertheless, we added those rights explicitly to avoid enlargement of acreage and diversion rate. I tried to explain that in the narrative but obviously failed.

I did intend that the full volume per acre of the candidate rights be rented, and I did think that is what I had done. We did not necessarily intend to rent the full acreage of a given right, but I will double check that we proposed renting the full diversion volume for the portions of rights we did propose renting.

Regarding the out-of-basin rights, it is true that we did not model the benefits that those rentals would provide to the aquifer. We DID model the full effect of pumping those rights at the proposed rental location ("to" POD). All the proposed extraction from the aquifer is fully modeled. Therefore, were conservative in fully representing the negative effect to the aquifer but under-representing the positive effects to the aquifer. Hence, if the modeling is deficient in any way, it is only deficient in under-representing the benefits of the transaction.

As you know, the model does not extend to the locations of those rented rights. Nevertheless, I will perform analysis for the benefits that those rentals provide to reaches hydraulically connected to the ESPA, and include them in the revised report. Of necessity these will be subject to more uncertainty than analysis of rights within the model boundary. Since all proposed pumping has already been fully represented in modeling, the revised modeling will only show an increase in net benefit to the aquifer. Therefore, I think there is no potential harm from this additional uncertainty.

The technically correct method of analyzing the out-of-basin PODs would be to apply an analytical method to estimate their effect upon the Teton River, and then propagate effects from the Teton River to the Henrys Fork. This is appropriate because the effects of pumping will not immediately reach the Henrys Fork, and neither will the propagation of effects through the Teton Valley Aquifer to the Teton River immediately reach the Henrys Fork. We have good input information to perform this analysis in the aquifer properties derived by Dr. Van Kirk in a USDA-funded study. However, there is a cleaner and more straightforward method, which has been used in the past (though not to my knowledge for rights as distant as these). That is to find the nearest grid cell that is within the model, and represent the out-of-basin pumping as if it occurred there. Since the Teton Basin is fully tributary to the Snake Plain Basin, this is full valid on a water-budget and enlargement basis. Its advantage is that it can be performed with the transfer tool. If it has a deficiency, it only is in nuances of timing and location of benefit. Given that all reaches are kept whole even without these out-of-basin rights, I can in good conscience accept either approach.

Finally, your letter does not speak to the proposed volume per acre at the "to" location, but I wonder if that is part of your concern.

In summary, please help me with some clarifications:

- 1) Is it acceptable to rent only a portion of a right? For instance if right X is for 350 acre feet per acre on 100 acres with 2.0 cfs, is it acceptable to rent 175 acre feet for use on 50 acres with 1.0 cfs?
- 2) I assume that full acreage must be rented, in order to prevent enlargement. For instance, if the "to" place of use is 100 acres, I assume that the sum of authorized acreage on all the rented places of use must equal or exceed 100 acres. Is this correct?
- 3) I assume that full volume must be rented, in order to prevent enlargement. For instance, if 250 acre feet are proposed to be rented, the sum of authorized volumes on the rented rights must equal or exceed 250 acre feet. Is this correct?
- 4) I assume that the full required diversion rate must be rented, in order to prevent enlargement. For instance, if 5.0 cfs are needed at the "to" location, the sum of the authorized diversion rates of rented rights must equal or exceed 5.0 cfs. Is this correct?
- 5) Is it acceptable to model the required volume at the "to" location for the crops to be grown, or must the IDWR standard volume for alfalfa, for that basin, be represented?
- 6) For the out-of-basin rights, do you prefer the more correct, or more straightforward, analysis?

I await your response, and will begin the revised analysis as soon as these issues are clarified. It will not be trivial to do this work, so please let me know as soon as possible.

Thanks,

Bryce

On Tue, Mar 31, 2015 at 11:04 AM, Edl, Michele <Michele.Edl@idwr.idaho.gov> wrote:
> Mr. Contor,

>
> I have completed my review of the application submitted on behalf of Mr.
> Pocock's to rent water from the IWRB's Water Supply Bank (WSB) for the
> 2015 irrigation season. I have two concerns that will need to be addressed
> before I can complete the processing of Mr. Pocock's application.

>
>
>
> First, I see that you modeled the minimum volume that Mr. Pocock
> requested in his application. However, the WSB requires that the full
> volume of a candidate right be rented whether or not the full volume is actually used.
> This policy helps prevent enlargement in the use of a right.

>
> Based on your modeling of the minimum volume, Mr. Pocock would be
> authorized to fully irrigate only 32.5 acres of the 57 acres that he
> would like to cover.

>
>
>
> Second, I see that you listed a pair of rights whose
> points-of-diversion are outside the ESPA modeling grid. I suspect
> that you are aware of the limitations of the transfer tool utility that I use to verify
ESPA modeling.
> if I can't model the use and estimate the potential injury, I can't
> process the rental request.

>
> Broadly speaking, any new diversion from the ESPA must be mitigated.
> If a diversion formerly located outside of the ESPA, is now diverting
> from the ESPA, it is in essence a new diversion from the aquifer. A
> request to rent rights 22-13814 and 22-13816 to Mr. Pocock would be a
> new diversion from the ESPA. I would have to assume that use of those
> rights at the rental place-of-use would negatively impact the aquifer
> and would not authorize that use.
>
>
>
> Therefore, I am requesting that you re-model the 2015 WSB rental for Mr.
> Pocock. I have also been directed to hold you to a very tight
> time-frame because there are rental proposals waiting in line to rent
> the rights listed in Mr. Pocock's application.
>
> Within 10 days, please submit revised modeling of the impact to the
> ESPA due to Mr. Pocock's proposed rental. That modeling must show the
> impact of the full volume of the proposed rights. If I don't receive
> the revised modeling on or before April 10, 2015, I will return Mr.
> Pocock's rental application unprocessed.
>
>
>
> Respectfully,
>
> Michele Edl
>
> 208-287-4946

--

Bryce A. Contor
Senior Hydrologist

482 Constitution, Idaho Falls, ID 83402
E-Mail: bcontor@rockymountainenvironmental.com
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VOICE: 208-524-2353 ||| FAX: 208-524-1795 ||| CELL: 208-681-9100

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Edl, Michele

From: bcontor.rm@gmail.com on behalf of Bryce Contor
[bcontor@rockymountainenvironmental.com]
Sent: Tuesday, March 24, 2015 12:45 PM
To: Edl, Michele
Subject: Re: Pocock Rental Fee 2015
Attachments: Supplement_to_Modeling_Attachment_Pocock_2015.pdf

Hear is a supplement to the modeling attachment. Rather than do a more complex combined analysis, I simply analyzed the second POD as if it were a stand alone. It also met the transfer/water-supply bank requirements. This means that all the water could be taken from either POD, or distributed between them in any ratio, and the requirements would be met.

Thanks for catching this. I'm sorry I missed it.

Bryce

On Mon, Mar 23, 2015 at 5:48 PM, Edl, Michele <Michele.Edl@idwr.idaho.gov> wrote:

> Mr. Contor,
>
> I have been assigned to review Ray Pocock's application to rent water
> from the State Water Supply Bank for the 2015 season. I have a
> question about the locations of the proposed wells. Because a Water
> Supply Bank rental cannot authorize construction of a new well, I need
> to be clear on the well locations before I proceed with the review.
>
>
>
> Page three part D of the Application states that one of the proposed
> wells is located in the SWSWNE of sec 24, Twp 6N, Rge 41E. I am
> pretty sure that we are both looking at the well near the center of
> the quarter. Our database indicates that it is located in the NENESW. So far so good.
>
> However, when I compare the ESPA grid cell addresses to the locations
> of the two wells as our data base shows them, I see two neighboring
> but different cell addresses: 64/192 and 65/192. If I am reading the
> excerpts of your model runs correctly, you chose to run the model using 64/192 not 65/192.
>
>
>
> I read your Attachment G: Aquifer Modeling but didn't see an
> explanation for your choice. Compared to you, I am a novice at
> modeling the ESPA. But I understood that the full model could accept multiple TO WELLS.
Does Mr.
> Pocock's system lean on one well more than the other?
>
>
>
> I have paused in my review of this application until I am sure we are
> both considering the same two wells. Please provide me a brief
> explanation for your modeling choice. I hope to complete my review
> before the irrigation season starts so please contact me at your earliest possible
convenience.
>
>

>
> Sincerely,
>
> Michele Edl
>
> 208-287-4946

--
Bryce A. Contor
Senior Hydrologist

482 Constitution, Idaho Falls, ID 83402
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Supplement to Attachment 3G: Aquifer Modeling

Ray Pocock Water Supply Bank Rental Application

Background

Mr. Ray Pocock is applying for a Water Supply Bank Rental for irrigation in the year-2015 irrigation season. A modeling evaluation was performed and submitted with the application, as "Attachment 3G: Aquifer Modeling." Subsequently it was learned that there are two Points of Diversion (PODs) associated with the proposed rental location, in adjacent model cells. The modeling performed only considered the POD in Model Row 64, Model Column 192. The second POD is located in Model Row 65, Model Column 192.

Modeling Procedure

The previously-submitted modeling showed that if all the pumping were to occur in Row 64, Column 192, the transfer/water-bank rental requirements would be met. The modeling was repeated using Row 65, Column 192, as shown in the Appendix I S echo of input data. The same result was obtained; were all pumping to occur from that POD, the requirements would also be met. The effects of using both PODs would simply be the weighted-average combined effects of both PODs; for instance, if the pumping were 75% in the North POD and 25% in the South POD, the modeled effect at any reach would be 75% of the North POD effects added to 25% of the South POD effects. Since both meet the transfer/water-bank rental requirements, any combination of the two will also meet the requirements.

Modeling Results

Appendix II S provides summary graphic output showing the net modeled effect, and the effect of each component piece of the modeling. All the reaches (nearly 60 in total) below Milner were combined for graphing purposes. Appendix III S provides an excerpt of reach-by-reach and month-by-month combined output¹ from ESPAM2.1. Careful inspection of Appendix III S shows that for all reaches except Ashton to Rexburg, the ESPAM2.1 model estimates that the net effect of the proposed Water Supply Bank transaction is positive; that is, that it benefits water supply in the reach. For the Ashton to Rexburg reach, modeling estimates that there will be a positive effect in the year of rental, with some small net negative effects in a few later years. However, the trimester-equivalent net negative effects are less than 10% of the allowable two acre feet per reach per trimester *de minimus* quantity.

As with modeling of the North POD, right 22-13814 was included in the rental but not in the modeling, as its POD is outside the model domain. Therefore, modeling will tend to under-estimate benefits and over-estimate negative effects.

Conclusion

The South POD (Row 65 Column 192) also meets the criteria, as does the North POD (Row 64 Column 192). The rental water may be pumped from either POD or from both, in any proportion, without

¹ Individual modeling results are available from RMEA upon request.

exceeding the *de minimus* net effect of two acre feet per reach per trimester. Because one leased water right is omitted from analysis, the modeling analysis over-estimates net negative effects on all reaches. This provides an added buffer of safety to the analysis.

Appendices:

Appendix I S: Excerpt of Modeling Echo of Input Data (2 of 27 pages)

Appendix II S: Graphic Presentation of Model Output (2 pages)

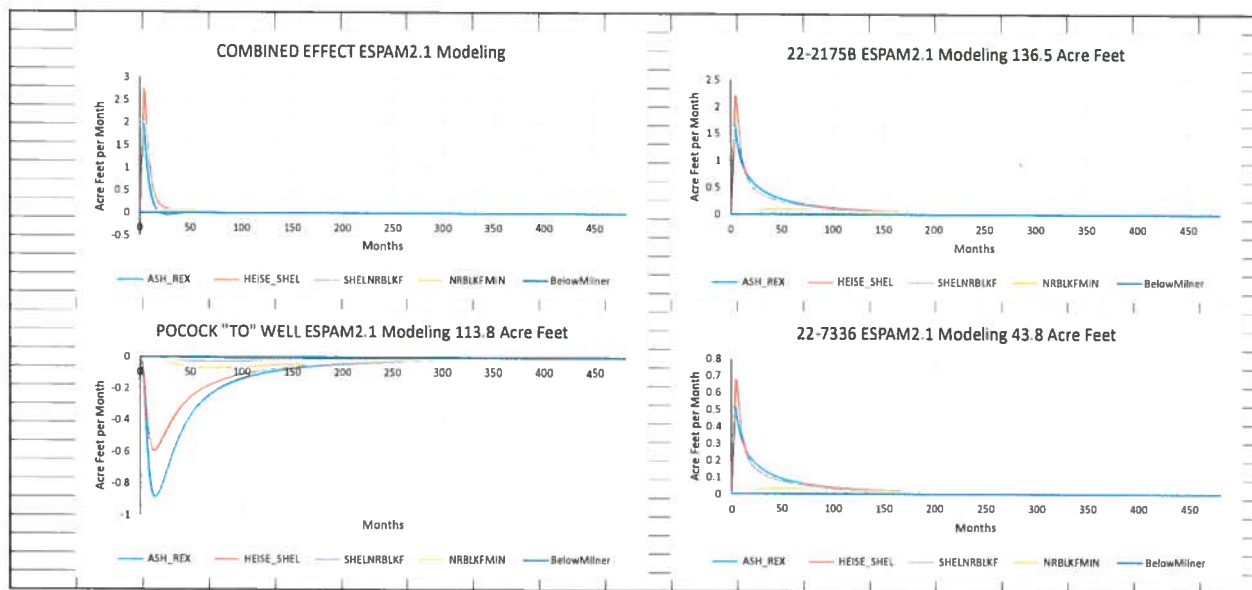
Appendix III S: Excerpt of Tabular Compilation of Combined Model Output (17 of 673 pages)

Appendix I S: Modeling Echo of Input Data for Supplemental Modeling (South POD)

The input-data echo is comprised of 26 pages. All entries are zero after page one. Appendix I S contains only the first page of the input-data echo. The full file is available from Rocky Mountain Environmental Associates, Inc. (RMEA) upon request.

Stress file: C:\Dropbox\BRYCE\09Bryce_2015\13-0070_Pocock_Contor_2015\Modeling_Files\ESPAM2_1_Modeling\POCOCK_TO_WELL_2.csv									
Response files:									
Cell	ROW	COL	Description	River_Inpu	GHB_Input_File				
1	65	192	Pocock	C:\Dropbox	C:\Dropbox\BRYCE\RSP_E2_1\GH8065192.smp				
Output file (this file): C:\Dropbox\BRYCE\09Bryce_2015\13-0070_Pocock_Contor_2015\Modeling_Files\ESPAM2_1_Modeling\POCOCK_TO_WELL_2_OUT.csv									
Echo of stress file:									
No Cells:	1								
Row	65								
Col	192								
DESC	Pocock								
S1	-28.45								
S2	-28.45								
S3	-28.45								
S4	-28.45								
S5	0								
S6	0								
S7	0								
S8	0								
S9	0								
S10	0								
S11	0								
S12	0								
S13	0								
S14	0								
S15	0								
S16	0								
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S47	0								
S48	0								
S49	0								
S50	0								
S51	0								
S52	0								
S53	0								
S54	0								
S55	0								
S56	0								
S57	0								
S58	0								
S59	0								
S60	0								
S61	0								
S62	0								

Appendix II S: Graphic Presentation of Model Output for Supplemental Modeling (South POD)



Appendix III S: Tabular Compilation of Combined Model Output for Supplemental Modeling (South POD)

The full file is 672 pages, plus cover sheet, representing 3600 months (300 years) of output. Only the first 16 pages are produced here, representing 85 months (7.1 years) of output. All occurrences of negative effects are represented within the first 7.1 years. The sheets not produced simply show a long time series of decreasing positive but small effects to all reaches. The full spreadsheet is available upon request from RMEA.

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	BANCROFT	D030013	D031013	D031014	D032013	D032014	D033013	D033014
0	0	0	0	0	0	0	0	0
1	2.56E-16	7.46E-16	2.03E-15	2.32E-15	3.72E-16	7.75E-15	3.20E-17	1.33E-14
2	4.12E-15	1.08E-14	2.94E-14	3.36E-14	5.39E-15	1.12E-13	4.63E-16	1.92E-13
3	3.30E-14	7.76E-14	2.10E-13	2.41E-13	3.85E-14	8.02E-13	3.30E-15	1.37E-12
4	1.81E-13	3.83E-13	1.04E-12	1.18E-12	1.89E-13	3.95E-12	1.63E-14	6.76E-12
5	7.55E-13	1.43E-12	3.86E-12	4.41E-12	7.06E-13	1.47E-11	6.06E-14	2.52E-11
6	2.60E-12	4.45E-12	1.20E-11	1.37E-11	2.19E-12	4.57E-11	1.88E-13	7.82E-11
7	7.72E-12	1.21E-11	3.26E-11	3.72E-11	5.95E-12	1.24E-10	5.10E-13	2.12E-10
8	2.04E-11	2.91E-11	7.84E-11	8.96E-11	1.43E-11	2.98E-10	1.23E-12	5.10E-10
9	4.84E-11	6.32E-11	1.70E-10	1.94E-10	3.10E-11	6.46E-10	2.66E-12	1.10E-09
10	1.05E-10	1.25E-10	3.37E-10	3.85E-10	6.14E-11	1.28E-09	5.27E-12	2.19E-09
11	2.10E-10	2.30E-10	6.18E-10	7.05E-10	1.13E-10	2.34E-09	9.65E-12	4.01E-09
12	3.93E-10	3.95E-10	1.06E-09	1.21E-09	1.93E-10	4.02E-09	1.65E-11	6.87E-09
13	6.92E-10	6.41E-10	1.71E-09	1.96E-09	3.12E-10	6.50E-09	2.68E-11	1.11E-08
14	1.15E-09	9.88E-10	2.64E-09	3.01E-09	4.80E-10	1.00E-08	4.12E-11	1.71E-08
15	1.84E-09	1.46E-09	3.89E-09	4.44E-09	7.08E-10	1.47E-08	6.07E-11	2.52E-08
16	2.80E-09	2.07E-09	5.53E-09	6.31E-09	1.01E-09	2.09E-08	8.62E-11	3.58E-08
17	4.12E-09	2.85E-09	7.61E-09	8.68E-09	1.38E-09	2.88E-08	1.19E-10	4.92E-08
18	5.87E-09	3.82E-09	1.02E-08	1.16E-08	1.85E-09	3.85E-08	1.58E-10	6.57E-08
19	8.12E-09	4.98E-09	1.33E-08	1.51E-08	2.41E-09	5.01E-08	2.06E-10	8.56E-08
20	1.10E-08	6.35E-09	1.69E-08	1.93E-08	3.07E-09	6.39E-08	2.63E-10	1.09E-07
21	1.44E-08	7.93E-09	2.11E-08	2.40E-08	3.83E-09	7.97E-08	3.28E-10	1.36E-07
22	1.86E-08	9.74E-09	2.59E-08	2.95E-08	4.70E-09	9.78E-08	4.03E-10	1.67E-07
23	2.36E-08	1.18E-08	3.13E-08	3.56E-08	5.67E-09	1.18E-07	4.86E-10	2.02E-07
24	2.94E-08	1.40E-08	3.72E-08	4.24E-08	6.75E-09	1.41E-07	5.78E-10	2.40E-07
25	3.60E-08	1.65E-08	4.37E-08	4.98E-08	7.93E-09	1.65E-07	6.80E-10	2.82E-07
26	4.35E-08	1.91E-08	5.08E-08	5.79E-08	9.21E-09	1.92E-07	7.89E-10	3.27E-07
27	5.20E-08	2.20E-08	5.83E-08	6.65E-08	1.06E-08	2.20E-07	9.06E-10	3.76E-07
28	6.13E-08	2.50E-08	6.64E-08	7.56E-08	1.20E-08	2.51E-07	1.03E-09	4.28E-07
29	7.15E-08	2.82E-08	7.48E-08	8.52E-08	1.36E-08	2.82E-07	1.16E-09	4.82E-07
30	8.26E-08	3.16E-08	8.37E-08	9.53E-08	1.52E-08	3.16E-07	1.30E-09	5.39E-07
31	9.46E-08	3.51E-08	9.28E-08	1.06E-07	1.68E-08	3.50E-07	1.44E-09	5.98E-07
32	1.07E-07	3.86E-08	1.02E-07	1.17E-07	1.85E-08	3.86E-07	1.59E-09	6.59E-07
33	1.21E-07	4.23E-08	1.12E-07	1.28E-07	2.03E-08	4.23E-07	1.74E-09	7.21E-07
34	1.35E-07	4.61E-08	1.22E-07	1.39E-07	2.21E-08	4.60E-07	1.89E-09	7.85E-07
35	1.50E-07	4.99E-08	1.32E-07	1.50E-07	2.39E-08	4.98E-07	2.05E-09	8.50E-07
36	1.66E-07	5.38E-08	1.42E-07	1.62E-07	2.58E-08	5.37E-07	2.21E-09	9.16E-07
37	1.82E-07	5.77E-08	1.53E-07	1.74E-07	2.76E-08	5.75E-07	2.37E-09	9.82E-07
38	1.99E-07	6.16E-08	1.63E-07	1.85E-07	2.95E-08	6.14E-07	2.53E-09	1.05E-06
39	2.16E-07	6.55E-08	1.73E-07	1.97E-07	3.14E-08	6.53E-07	2.69E-09	1.11E-06
40	2.33E-07	6.94E-08	1.83E-07	2.09E-07	3.32E-08	6.92E-07	2.84E-09	1.18E-06
41	2.51E-07	7.33E-08	1.94E-07	2.20E-07	3.51E-08	7.30E-07	3.00E-09	1.25E-06
42	2.69E-07	7.71E-08	2.04E-07	2.32E-07	3.69E-08	7.68E-07	3.16E-09	1.31E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D034014	D035014	D036014	MALAD	D037014	BIRCH	D038014	BIGSP
0	0	0	0	0	0	0	0	0
1	3.83E-14	6.14E-15	1.10E-14	1.80E-12	1.10E-14	4.84E-15	8.15E-14	6.16E-13
2	5.51E-13	8.70E-14	1.52E-13	2.55E-11	1.51E-13	6.67E-14	1.11E-12	8.41E-12
3	3.93E-12	6.12E-13	1.05E-12	1.79E-10	1.03E-12	4.57E-13	7.58E-12	5.72E-11
4	1.93E-11	2.97E-12	5.01E-12	8.64E-10	4.90E-12	2.17E-12	3.58E-11	2.70E-10
5	7.16E-11	1.09E-11	1.82E-11	3.16E-09	1.76E-11	7.81E-12	1.28E-10	9.65E-10
6	2.22E-10	3.37E-11	5.51E-11	9.67E-09	5.30E-11	2.36E-11	3.85E-10	2.89E-09
7	6.01E-10	9.06E-11	1.46E-10	2.59E-08	1.40E-10	6.22E-11	1.01E-09	7.60E-09
8	1.44E-09	2.16E-10	3.45E-10	6.14E-08	3.27E-10	1.46E-10	2.36E-09	1.77E-08
9	3.12E-09	4.65E-10	7.33E-10	1.31E-07	6.89E-10	3.07E-10	4.95E-09	3.71E-08
10	6.18E-09	9.13E-10	1.42E-09	2.56E-07	1.33E-09	5.92E-10	9.51E-09	7.13E-08
11	1.13E-08	1.66E-09	2.56E-09	4.64E-07	2.37E-09	1.06E-09	1.69E-08	1.27E-07
12	1.94E-08	2.83E-09	4.30E-09	7.84E-07	3.95E-09	1.77E-09	2.82E-08	2.11E-07
13	3.13E-08	4.54E-09	6.84E-09	1.25E-06	6.24E-09	2.79E-09	4.43E-08	3.31E-07
14	4.81E-08	6.95E-09	1.03E-08	1.91E-06	9.38E-09	4.19E-09	6.64E-08	4.96E-07
15	7.08E-08	1.02E-08	1.50E-08	2.78E-06	1.35E-08	6.05E-09	9.55E-08	7.12E-07
16	1.00E-07	1.44E-08	2.10E-08	3.91E-06	1.88E-08	8.42E-09	1.33E-07	9.87E-07
17	1.38E-07	1.97E-08	2.85E-08	5.32E-06	2.53E-08	1.13E-08	1.78E-07	1.33E-06
18	1.84E-07	2.62E-08	3.76E-08	7.04E-06	3.32E-08	1.49E-08	2.33E-07	1.74E-06
19	2.40E-07	3.40E-08	4.84E-08	9.10E-06	4.25E-08	1.91E-08	2.98E-07	2.22E-06
20	3.05E-07	4.31E-08	6.10E-08	1.15E-05	5.33E-08	2.39E-08	3.73E-07	2.77E-06
21	3.81E-07	5.36E-08	7.53E-08	1.42E-05	6.56E-08	2.94E-08	4.57E-07	3.40E-06
22	4.67E-07	6.56E-08	9.15E-08	1.74E-05	7.93E-08	3.55E-08	5.52E-07	4.10E-06
23	5.64E-07	7.89E-08	1.09E-07	2.08E-05	9.44E-08	4.23E-08	6.57E-07	4.87E-06
24	6.71E-07	9.36E-08	1.29E-07	2.46E-05	1.11E-07	4.98E-08	7.70E-07	5.72E-06
25	7.87E-07	1.10E-07	1.50E-07	2.87E-05	1.29E-07	5.77E-08	8.93E-07	6.62E-06
26	9.14E-07	1.27E-07	1.73E-07	3.32E-05	1.48E-07	6.63E-08	1.02E-06	7.59E-06
27	1.05E-06	1.46E-07	1.98E-07	3.79E-05	1.68E-07	7.53E-08	1.16E-06	8.60E-06
28	1.19E-06	1.65E-07	2.23E-07	4.29E-05	1.89E-07	8.48E-08	1.31E-06	9.67E-06
29	1.34E-06	1.86E-07	2.50E-07	4.81E-05	2.11E-07	9.46E-08	1.46E-06	1.08E-05
30	1.50E-06	2.07E-07	2.78E-07	5.35E-05	2.34E-07	1.05E-07	1.61E-06	1.19E-05
31	1.67E-06	2.29E-07	3.06E-07	5.91E-05	2.57E-07	1.15E-07	1.77E-06	1.31E-05
32	1.84E-06	2.52E-07	3.36E-07	6.49E-05	2.81E-07	1.26E-07	1.93E-06	1.43E-05
33	2.01E-06	2.76E-07	3.66E-07	7.08E-05	3.05E-07	1.37E-07	2.09E-06	1.55E-05
34	2.19E-06	3.00E-07	3.96E-07	7.67E-05	3.29E-07	1.48E-07	2.26E-06	1.67E-05
35	2.37E-06	3.24E-07	4.27E-07	8.28E-05	3.54E-07	1.59E-07	2.43E-06	1.79E-05
36	2.55E-06	3.48E-07	4.57E-07	8.88E-05	3.78E-07	1.70E-07	2.59E-06	1.92E-05
37	2.73E-06	3.73E-07	4.88E-07	9.49E-05	4.03E-07	1.81E-07	2.76E-06	2.04E-05
38	2.91E-06	3.98E-07	5.19E-07	1.01E-04	4.27E-07	1.92E-07	2.92E-06	2.16E-05
39	3.10E-06	4.22E-07	5.49E-07	1.07E-04	4.52E-07	2.02E-07	3.08E-06	2.28E-05
40	3.28E-06	4.46E-07	5.80E-07	1.13E-04	4.75E-07	2.13E-07	3.24E-06	2.40E-05
41	3.46E-06	4.71E-07	6.09E-07	1.19E-04	4.99E-07	2.24E-07	3.40E-06	2.51E-05
42	3.64E-06	4.95E-07	6.39E-07	1.25E-04	5.22E-07	2.34E-07	3.56E-06	2.63E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D040013	D040014	THREESP	TUCKER	RANGEN	NTLFSHH	THOUSANI	D045011
0	0	0	0	0	0	0	0	0
1	7.63E-15	7.26E-14	1.19E-12	1.09E-13	1.72E-12	1.13E-12	6.13E-12	1.66E-16
2	1.04E-13	9.90E-13	1.62E-11	1.48E-12	2.34E-11	1.54E-11	8.30E-11	2.21E-15
3	7.07E-13	6.73E-12	1.10E-10	1.00E-11	1.59E-10	1.04E-10	5.57E-10	1.47E-14
4	3.33E-12	3.17E-11	5.19E-10	4.72E-11	7.46E-10	4.91E-10	2.59E-09	6.76E-14
5	1.19E-11	1.13E-10	1.85E-09	1.68E-10	2.66E-09	1.74E-09	9.11E-09	2.36E-13
6	3.56E-11	3.39E-10	5.54E-09	5.02E-10	7.93E-09	5.20E-09	2.70E-08	6.93E-13
7	9.35E-11	8.91E-10	1.45E-08	1.31E-09	2.08E-08	1.36E-08	7.00E-08	1.79E-12
8	2.18E-10	2.07E-09	3.38E-08	3.05E-09	4.82E-08	3.16E-08	1.61E-07	4.08E-12
9	4.56E-10	4.35E-09	7.08E-08	6.38E-09	1.01E-07	6.59E-08	3.33E-07	8.39E-12
10	8.75E-10	8.33E-09	1.36E-07	1.22E-08	1.93E-07	1.26E-07	6.31E-07	1.58E-11
11	1.55E-09	1.48E-08	2.41E-07	2.16E-08	3.41E-07	2.22E-07	1.11E-06	2.75E-11
12	2.58E-09	2.46E-08	4.00E-07	3.58E-08	5.66E-07	3.68E-07	1.82E-06	4.50E-11
13	4.05E-09	3.86E-08	6.28E-07	5.61E-08	8.87E-07	5.76E-07	2.83E-06	6.96E-11
14	6.06E-09	5.78E-08	9.39E-07	8.38E-08	1.33E-06	8.60E-07	4.20E-06	1.03E-10
15	8.71E-09	8.30E-08	1.35E-06	1.20E-07	1.90E-06	1.23E-06	5.98E-06	1.45E-10
16	1.21E-08	1.15E-07	1.87E-06	1.66E-07	2.63E-06	1.70E-06	8.22E-06	1.99E-10
17	1.62E-08	1.54E-07	2.51E-06	2.23E-07	3.52E-06	2.28E-06	1.10E-05	2.64E-10
18	2.12E-08	2.02E-07	3.27E-06	2.91E-07	4.60E-06	2.97E-06	1.42E-05	3.41E-10
19	2.70E-08	2.58E-07	4.18E-06	3.71E-07	5.86E-06	3.79E-06	1.81E-05	4.31E-10
20	3.38E-08	3.22E-07	5.22E-06	4.62E-07	7.31E-06	4.72E-06	2.24E-05	5.34E-10
21	4.14E-08	3.95E-07	6.40E-06	5.66E-07	8.96E-06	5.78E-06	2.74E-05	6.49E-10
22	4.99E-08	4.76E-07	7.71E-06	6.82E-07	1.08E-05	6.96E-06	3.28E-05	7.76E-10
23	5.93E-08	5.66E-07	9.16E-06	8.10E-07	1.28E-05	8.25E-06	3.88E-05	9.16E-10
24	6.96E-08	6.64E-07	1.07E-05	9.49E-07	1.50E-05	9.66E-06	4.53E-05	1.07E-09
25	8.06E-08	7.69E-07	1.24E-05	1.10E-06	1.74E-05	1.12E-05	5.23E-05	1.23E-09
26	9.23E-08	8.80E-07	1.42E-05	1.26E-06	1.99E-05	1.28E-05	5.97E-05	1.40E-09
27	1.05E-07	9.98E-07	1.61E-05	1.42E-06	2.25E-05	1.45E-05	6.74E-05	1.57E-09
28	1.18E-07	1.12E-06	1.81E-05	1.60E-06	2.53E-05	1.62E-05	7.55E-05	1.76E-09
29	1.31E-07	1.25E-06	2.02E-05	1.78E-06	2.81E-05	1.81E-05	8.39E-05	1.95E-09
30	1.45E-07	1.38E-06	2.23E-05	1.96E-06	3.11E-05	2.00E-05	9.25E-05	2.15E-09
31	1.59E-07	1.52E-06	2.45E-05	2.16E-06	3.41E-05	2.19E-05	1.01E-04	2.35E-09
32	1.73E-07	1.65E-06	2.67E-05	2.35E-06	3.72E-05	2.39E-05	1.10E-04	2.55E-09
33	1.88E-07	1.79E-06	2.90E-05	2.55E-06	4.03E-05	2.59E-05	1.19E-04	2.75E-09
34	2.03E-07	1.94E-06	3.12E-05	2.74E-06	4.34E-05	2.79E-05	1.28E-04	2.96E-09
35	2.18E-07	2.08E-06	3.35E-05	2.94E-06	4.66E-05	2.99E-05	1.37E-04	3.16E-09
36	2.32E-07	2.22E-06	3.58E-05	3.14E-06	4.97E-05	3.19E-05	1.46E-04	3.36E-09
37	2.47E-07	2.36E-06	3.81E-05	3.34E-06	5.29E-05	3.39E-05	1.55E-04	3.57E-09
38	2.62E-07	2.50E-06	4.03E-05	3.54E-06	5.60E-05	3.59E-05	1.64E-04	3.77E-09
39	2.76E-07	2.64E-06	4.25E-05	3.73E-06	5.91E-05	3.78E-05	1.73E-04	3.96E-09
40	2.90E-07	2.77E-06	4.47E-05	3.92E-06	6.21E-05	3.97E-05	1.82E-04	4.16E-09
41	3.05E-07	2.91E-06	4.69E-05	4.11E-06	6.51E-05	4.16E-05	1.90E-04	4.35E-09
42	3.18E-07	3.04E-06	4.90E-05	4.29E-06	6.80E-05	4.35E-05	1.98E-04	4.53E-09

MIN	0	0	0	0	0	-0.03933	0	0
MIN x 4	0	0	0	0	0	-0.15732	0	0
MONTH	D045012	SAND	D047011	BOX	BANBURY	ASH_REX	BRIGGS	HEISE_SHE
0	0	0	0	0	0	0	0	0
1	5.05E-15	3.10E-12	1.91E-14	1.19E-11	5.73E-13	0.598875	1.96E-13	0.619916
2	6.74E-14	4.12E-11	2.55E-13	1.59E-10	7.64E-12	1.16E+00	2.63E-12	1.39E+00
3	4.47E-13	2.72E-10	1.69E-12	1.05E-09	5.05E-11	1.607164	1.74E-11	2.12E+00
4	2.06E-12	1.25E-09	7.74E-12	4.82E-09	2.32E-10	1.965681	7.98E-11	2.740365
5	7.17E-12	4.33E-09	2.68E-11	1.67E-08	8.03E-10	1.651279	2.77E-10	2.628511
6	2.10E-11	1.27E-08	7.85E-11	4.89E-08	2.35E-09	1.319746	8.09E-10	2.264875
7	5.43E-11	3.26E-08	2.02E-10	1.26E-07	6.02E-09	1.047479	2.08E-09	1.868854
8	1.24E-10	7.41E-08	4.58E-10	2.86E-07	1.37E-08	0.830188	4.72E-09	1.516325
9	2.55E-10	1.52E-07	9.37E-10	5.85E-07	2.80E-08	0.656667	9.65E-09	1.224912
10	4.79E-10	2.85E-07	1.76E-09	1.10E-06	5.24E-08	0.517453	1.81E-08	0.991329
11	8.34E-10	4.95E-07	3.05E-09	1.90E-06	9.09E-08	0.405262	3.14E-08	0.80635
12	1.36E-09	8.07E-07	4.96E-09	3.09E-06	1.48E-07	0.314527	5.10E-08	0.660316
13	2.11E-09	1.24E-06	7.63E-09	4.77E-06	2.28E-07	0.240973	7.85E-08	0.544875
14	3.10E-09	1.83E-06	1.12E-08	7.00E-06	3.34E-07	0.181284	1.15E-07	0.453303
15	4.39E-09	2.59E-06	1.58E-08	9.89E-06	4.72E-07	0.132868	1.63E-07	0.380354
16	6.01E-09	3.53E-06	2.16E-08	1.35E-05	6.43E-07	0.093671	2.22E-07	0.321982
17	7.98E-09	4.68E-06	2.85E-08	1.78E-05	8.51E-07	0.062051	2.94E-07	0.275077
18	1.03E-08	6.04E-06	3.68E-08	2.30E-05	1.10E-06	0.036685	3.78E-07	0.237243
19	1.30E-08	7.62E-06	4.64E-08	2.90E-05	1.38E-06	0.016489	4.77E-07	0.206623
20	1.61E-08	9.41E-06	5.73E-08	3.58E-05	1.71E-06	0.000578	5.89E-07	0.181771
21	1.96E-08	1.14E-05	6.95E-08	4.35E-05	2.07E-06	-0.01178	7.14E-07	0.161552
22	2.34E-08	1.37E-05	8.30E-08	5.19E-05	2.47E-06	-0.0212	8.53E-07	0.14507
23	2.76E-08	1.61E-05	9.77E-08	6.11E-05	2.91E-06	-0.02819	1.00E-06	0.131612
24	3.22E-08	1.87E-05	1.13E-07	7.10E-05	3.38E-06	-0.03317	1.17E-06	0.12061
25	3.70E-08	2.15E-05	1.30E-07	8.16E-05	3.88E-06	-0.03649	1.34E-06	0.111607
26	4.21E-08	2.45E-05	1.48E-07	9.28E-05	4.41E-06	-0.03847	1.52E-06	0.104234
27	4.75E-08	2.75E-05	1.67E-07	1.04E-04	4.97E-06	-0.03933	1.71E-06	0.098191
28	5.31E-08	3.08E-05	1.86E-07	1.17E-04	5.55E-06	-0.0393	1.91E-06	0.093237
29	5.88E-08	3.41E-05	2.06E-07	1.29E-04	6.14E-06	-0.03855	2.12E-06	0.089171
30	6.47E-08	3.75E-05	2.26E-07	1.42E-04	6.75E-06	-0.03722	2.33E-06	0.085833
31	7.08E-08	4.09E-05	2.47E-07	1.55E-04	7.36E-06	-0.03545	2.54E-06	0.083089
32	7.68E-08	4.44E-05	2.68E-07	1.68E-04	7.99E-06	-0.03333	2.75E-06	0.080829
33	8.30E-08	4.79E-05	2.89E-07	1.81E-04	8.62E-06	-0.03094	2.97E-06	0.078964
34	8.92E-08	5.15E-05	3.11E-07	1.95E-04	9.25E-06	-0.02837	3.19E-06	0.077421
35	9.53E-08	5.50E-05	3.32E-07	2.08E-04	9.89E-06	-0.02566	3.41E-06	0.076137
36	1.01E-07	5.85E-05	3.53E-07	2.21E-04	1.05E-05	-0.02288	3.62E-06	0.075063
37	1.08E-07	6.20E-05	3.74E-07	2.34E-04	1.11E-05	-0.02004	3.84E-06	0.074158
38	1.14E-07	6.55E-05	3.95E-07	2.47E-04	1.18E-05	-0.0172	4.05E-06	0.073387
39	1.20E-07	6.89E-05	4.15E-07	2.60E-04	1.24E-05	-0.01438	4.26E-06	0.072722
40	1.25E-07	7.22E-05	4.35E-07	2.73E-04	1.29E-05	-0.01159	4.46E-06	0.072141
41	1.31E-07	7.55E-05	4.54E-07	2.85E-04	1.35E-05	-0.00886	4.66E-06	0.071623
42	1.37E-07	7.87E-05	4.73E-07	2.97E-04	1.41E-05	-0.00619	4.86E-06	0.071155

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	CLEARLK	D050014	D051014	NIAGARA	CRYSTAL	D057020	D058020	ELISON
0	0	0	0	0	0	0	0	0
1	7.18E-12	1.08E-16	4.84E-16	5.66E-12	7.47E-12	8.36E-15	2.17E-15	1.50E-14
2	9.71E-11	1.45E-15	6.46E-15	7.58E-11	1.01E-10	1.15E-13	3.01E-14	2.07E-13
3	6.46E-10	9.57E-15	4.27E-14	5.02E-10	6.73E-10	7.80E-13	2.06E-13	1.42E-12
4	2.97E-09	4.39E-14	1.96E-13	2.31E-09	3.12E-09	3.66E-12	9.78E-13	6.70E-12
5	1.03E-08	1.52E-13	6.79E-13	8.00E-09	1.09E-08	1.30E-11	3.50E-12	2.39E-11
6	3.02E-08	4.45E-13	1.98E-12	2.34E-08	3.21E-08	3.88E-11	1.05E-11	7.17E-11
7	7.76E-08	1.14E-12	5.09E-12	6.01E-08	8.28E-08	1.01E-10	2.75E-11	1.88E-10
8	1.76E-07	2.59E-12	1.16E-11	1.37E-07	1.89E-07	2.34E-10	6.40E-11	4.37E-10
9	3.61E-07	5.30E-12	2.36E-11	2.80E-07	3.89E-07	4.87E-10	1.34E-10	9.13E-10
10	6.76E-07	9.91E-12	4.42E-11	5.24E-07	7.33E-07	9.27E-10	2.56E-10	1.75E-09
11	1.17E-06	1.72E-11	7.67E-11	9.08E-07	1.28E-06	1.63E-09	4.54E-10	3.09E-09
12	1.90E-06	2.79E-11	1.25E-10	1.48E-06	2.09E-06	2.69E-09	7.52E-10	5.12E-09
13	2.93E-06	4.29E-11	1.92E-10	2.27E-06	3.23E-06	4.20E-09	1.18E-09	8.02E-09
14	4.30E-06	6.30E-11	2.82E-10	3.34E-06	4.76E-06	6.24E-09	1.76E-09	1.20E-08
15	6.07E-06	8.89E-11	3.97E-10	4.71E-06	6.74E-06	8.89E-09	2.52E-09	1.71E-08
16	8.28E-06	1.21E-10	5.41E-10	6.42E-06	9.21E-06	1.22E-08	3.47E-09	2.36E-08
17	1.09E-05	1.60E-10	7.15E-10	8.50E-06	1.22E-05	1.63E-08	4.65E-09	3.16E-08
18	1.41E-05	2.06E-10	9.22E-10	1.10E-05	1.58E-05	2.12E-08	6.06E-09	4.12E-08
19	1.78E-05	2.60E-10	1.16E-09	1.38E-05	1.99E-05	2.69E-08	7.71E-09	5.24E-08
20	2.19E-05	3.21E-10	1.43E-09	1.70E-05	2.46E-05	3.35E-08	9.60E-09	6.53E-08
21	2.66E-05	3.89E-10	1.74E-09	2.07E-05	2.99E-05	4.08E-08	1.17E-08	7.99E-08
22	3.18E-05	4.64E-10	2.07E-09	2.47E-05	3.58E-05	4.90E-08	1.41E-08	9.61E-08
23	3.74E-05	5.46E-10	2.44E-09	2.90E-05	4.22E-05	5.79E-08	1.67E-08	1.14E-07
24	4.34E-05	6.35E-10	2.83E-09	3.37E-05	4.91E-05	6.76E-08	1.95E-08	1.33E-07
25	4.99E-05	7.29E-10	3.25E-09	3.87E-05	5.64E-05	7.79E-08	2.26E-08	1.54E-07
26	5.67E-05	8.28E-10	3.70E-09	4.40E-05	6.41E-05	8.88E-08	2.58E-08	1.75E-07
27	6.38E-05	9.31E-10	4.16E-09	4.95E-05	7.22E-05	1.00E-07	2.91E-08	1.98E-07
28	7.12E-05	1.04E-09	4.64E-09	5.52E-05	8.07E-05	1.12E-07	3.26E-08	2.22E-07
29	7.88E-05	1.15E-09	5.14E-09	6.11E-05	8.93E-05	1.25E-07	3.63E-08	2.47E-07
30	8.66E-05	1.26E-09	5.64E-09	6.72E-05	9.82E-05	1.37E-07	4.00E-08	2.73E-07
31	9.45E-05	1.38E-09	6.16E-09	7.33E-05	1.07E-04	1.50E-07	4.38E-08	2.99E-07
32	1.03E-04	1.50E-09	6.68E-09	7.95E-05	1.16E-04	1.63E-07	4.77E-08	3.25E-07
33	1.11E-04	1.61E-09	7.21E-09	8.58E-05	1.26E-04	1.77E-07	5.16E-08	3.52E-07
34	1.19E-04	1.73E-09	7.73E-09	9.21E-05	1.35E-04	1.90E-07	5.55E-08	3.79E-07
35	1.27E-04	1.85E-09	8.26E-09	9.84E-05	1.44E-04	2.03E-07	5.94E-08	4.06E-07
36	1.35E-04	1.97E-09	8.78E-09	1.05E-04	1.53E-04	2.16E-07	6.34E-08	4.32E-07
37	1.43E-04	2.08E-09	9.30E-09	1.11E-04	1.63E-04	2.29E-07	6.72E-08	4.59E-07
38	1.51E-04	2.20E-09	9.81E-09	1.17E-04	1.72E-04	2.42E-07	7.11E-08	4.85E-07
39	1.58E-04	2.31E-09	1.03E-08	1.23E-04	1.80E-04	2.55E-07	7.49E-08	5.11E-07
40	1.66E-04	2.42E-09	1.08E-08	1.29E-04	1.89E-04	2.68E-07	7.86E-08	5.37E-07
41	1.73E-04	2.53E-09	1.13E-08	1.35E-04	1.98E-04	2.80E-07	8.23E-08	5.62E-07
42	1.81E-04	2.63E-09	1.18E-08	1.40E-04	2.06E-04	2.92E-07	8.58E-08	5.86E-07

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D059021	D059022	D061023	D062023	BLUELK	D064026	D065027	DEVILC
0	0	0	0	0	0	0	0	0
1	8.57E-17	2.06E-15	9.26E-15	1.99E-15	6.66E-13	1.20E-14	1.54E-14	2.71E-13
2	1.20E-15	2.89E-14	1.33E-13	2.88E-14	9.74E-12	1.76E-13	2.22E-13	3.85E-12
3	8.32E-15	2.00E-13	9.47E-13	2.06E-13	7.03E-11	1.27E-12	1.57E-12	2.68E-11
4	3.98E-14	9.55E-13	4.64E-12	1.01E-12	3.49E-10	6.34E-12	7.65E-12	1.29E-10
5	1.44E-13	3.45E-12	1.72E-11	3.78E-12	1.31E-09	2.39E-11	2.82E-11	4.68E-10
6	4.34E-13	1.04E-11	5.32E-11	1.17E-11	4.10E-09	7.47E-11	8.69E-11	1.42E-09
7	1.15E-12	2.76E-11	1.44E-10	3.18E-11	1.12E-08	2.04E-10	2.34E-10	3.80E-09
8	2.69E-12	6.46E-11	3.44E-10	7.65E-11	2.71E-08	4.96E-10	5.60E-10	8.97E-09
9	5.68E-12	1.36E-10	7.41E-10	1.66E-10	5.90E-08	1.08E-09	1.21E-09	1.91E-08
10	1.09E-11	2.63E-10	1.46E-09	3.28E-10	1.18E-07	2.16E-09	2.37E-09	3.72E-08
11	1.95E-11	4.69E-10	2.66E-09	5.99E-10	2.16E-07	4.00E-09	4.33E-09	6.72E-08
12	3.26E-11	7.83E-10	4.52E-09	1.02E-09	3.73E-07	6.90E-09	7.39E-09	1.14E-07
13	5.13E-11	1.24E-09	7.27E-09	1.65E-09	6.05E-07	1.13E-08	1.19E-08	1.82E-07
14	7.71E-11	1.86E-09	1.11E-08	2.53E-09	9.34E-07	1.74E-08	1.83E-08	2.77E-07
15	1.11E-10	2.67E-09	1.63E-08	3.72E-09	1.38E-06	2.59E-08	2.69E-08	4.05E-07
16	1.54E-10	3.71E-09	2.30E-08	5.27E-09	1.97E-06	3.71E-08	3.82E-08	5.71E-07
17	2.07E-10	5.00E-09	3.14E-08	7.21E-09	2.71E-06	5.13E-08	5.26E-08	7.82E-07
18	2.71E-10	6.55E-09	4.16E-08	9.60E-09	3.63E-06	6.90E-08	7.03E-08	1.04E-06
19	3.46E-10	8.37E-09	5.39E-08	1.25E-08	4.74E-06	9.06E-08	9.18E-08	1.35E-06
20	4.33E-10	1.05E-08	6.82E-08	1.58E-08	6.04E-06	1.16E-07	1.17E-07	1.72E-06
21	5.31E-10	1.29E-08	8.47E-08	1.97E-08	7.56E-06	1.46E-07	1.47E-07	2.14E-06
22	6.41E-10	1.55E-08	1.03E-07	2.40E-08	9.28E-06	1.80E-07	1.81E-07	2.63E-06
23	7.61E-10	1.85E-08	1.24E-07	2.89E-08	1.12E-05	2.19E-07	2.19E-07	3.18E-06
24	8.92E-10	2.17E-08	1.47E-07	3.43E-08	1.34E-05	2.62E-07	2.62E-07	3.79E-06
25	1.03E-09	2.51E-08	1.72E-07	4.01E-08	1.57E-05	3.10E-07	3.09E-07	4.46E-06
26	1.18E-09	2.87E-08	1.98E-07	4.65E-08	1.83E-05	3.63E-07	3.60E-07	5.19E-06
27	1.34E-09	3.26E-08	2.26E-07	5.32E-08	2.10E-05	4.19E-07	4.15E-07	5.98E-06
28	1.51E-09	3.66E-08	2.56E-07	6.03E-08	2.39E-05	4.79E-07	4.74E-07	6.82E-06
29	1.68E-09	4.08E-08	2.88E-07	6.77E-08	2.70E-05	5.44E-07	5.37E-07	7.71E-06
30	1.85E-09	4.51E-08	3.20E-07	7.55E-08	3.02E-05	6.11E-07	6.04E-07	8.65E-06
31	2.03E-09	4.95E-08	3.53E-07	8.35E-08	3.36E-05	6.82E-07	6.73E-07	9.64E-06
32	2.22E-09	5.40E-08	3.88E-07	9.18E-08	3.70E-05	7.56E-07	7.46E-07	1.07E-05
33	2.40E-09	5.86E-08	4.23E-07	1.00E-07	4.06E-05	8.32E-07	8.21E-07	1.17E-05
34	2.59E-09	6.32E-08	4.58E-07	1.09E-07	4.42E-05	9.11E-07	8.98E-07	1.28E-05
35	2.78E-09	6.77E-08	4.94E-07	1.17E-07	4.79E-05	9.91E-07	9.77E-07	1.39E-05
36	2.96E-09	7.23E-08	5.30E-07	1.26E-07	5.16E-05	1.07E-06	1.06E-06	1.51E-05
37	3.15E-09	7.69E-08	5.66E-07	1.35E-07	5.54E-05	1.16E-06	1.14E-06	1.62E-05
38	3.33E-09	8.14E-08	6.02E-07	1.44E-07	5.91E-05	1.24E-06	1.22E-06	1.74E-05
39	3.51E-09	8.59E-08	6.38E-07	1.52E-07	6.29E-05	1.33E-06	1.31E-06	1.86E-05
40	3.69E-09	9.03E-08	6.74E-07	1.61E-07	6.67E-05	1.41E-06	1.39E-06	1.98E-05
41	3.87E-09	9.46E-08	7.09E-07	1.70E-07	7.05E-05	1.50E-06	1.48E-06	2.10E-05
42	4.04E-09	9.89E-08	7.43E-07	1.78E-07	7.42E-05	1.58E-06	1.56E-06	2.21E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	DEVILW	D068029	D069029	D070030	SHELNRBL	NRBLKFMI	GHB_LSF	GHB_BUL
0	0	0	0	0	0	0	0	0
1	2.32E-13	1.48E-15	2.19E-15	2.05E-15	7.79E-06	1.76E-05	9.80E-14	7.34E-13
2	3.26E-12	2.07E-14	3.07E-14	2.88E-14	5.10E-05	1.15E-04	1.40E-12	9.92E-12
3	2.25E-11	1.42E-13	2.11E-13	1.97E-13	1.83E-04	4.15E-04	9.89E-12	6.66E-11
4	1.07E-10	6.73E-13	9.99E-13	9.34E-13	4.80E-04	1.09E-03	4.82E-11	3.10E-10
5	3.86E-10	2.40E-12	3.57E-12	3.34E-12	1.02E-03	2.33E-03	1.78E-10	1.09E-09
6	1.17E-09	7.23E-12	1.07E-11	1.00E-11	1.87E-03	4.26E-03	5.51E-10	3.24E-09
7	3.09E-09	1.91E-11	2.83E-11	2.65E-11	3.04E-03	6.96E-03	1.49E-09	8.42E-09
8	7.25E-09	4.46E-11	6.61E-11	6.18E-11	4.52E-03	1.04E-02	3.55E-09	1.94E-08
9	1.53E-08	9.39E-11	1.39E-10	1.30E-10	6.27E-03	1.44E-02	7.66E-09	4.02E-08
10	2.97E-08	1.81E-10	2.69E-10	2.51E-10	8.21E-03	1.90E-02	1.51E-08	7.62E-08
11	5.33E-08	3.24E-10	4.80E-10	4.49E-10	1.03E-02	2.39E-02	2.76E-08	1.34E-07
12	8.96E-08	5.43E-10	8.05E-10	7.53E-10	1.24E-02	2.90E-02	4.70E-08	2.21E-07
13	1.43E-07	8.62E-10	1.28E-09	1.19E-09	0.014544	3.41E-02	7.58E-08	3.44E-07
14	2.16E-07	1.30E-09	1.93E-09	1.81E-09	1.66E-02	3.91E-02	1.16E-07	5.10E-07
15	3.15E-07	1.89E-09	2.81E-09	2.62E-09	1.86E-02	4.40E-02	1.71E-07	7.27E-07
16	4.43E-07	2.66E-09	3.94E-09	3.68E-09	2.05E-02	4.87E-02	2.42E-07	1.00E-06
17	6.05E-07	3.62E-09	5.36E-09	5.01E-09	2.23E-02	5.31E-02	3.32E-07	1.34E-06
18	8.03E-07	4.79E-09	7.11E-09	6.64E-09	2.39E-02	5.71E-02	4.43E-07	1.74E-06
19	1.04E-06	6.20E-09	9.19E-09	8.59E-09	2.53E-02	0.060869	5.75E-07	2.21E-06
20	1.32E-06	7.86E-09	1.17E-08	1.09E-08	2.67E-02	6.43E-02	7.32E-07	2.74E-06
21	1.64E-06	9.78E-09	1.45E-08	1.35E-08	2.78E-02	6.73E-02	9.12E-07	3.35E-06
22	2.01E-06	1.20E-08	1.77E-08	1.66E-08	2.89E-02	7.00E-02	1.12E-06	4.03E-06
23	2.43E-06	1.44E-08	2.14E-08	2.00E-08	2.97E-02	7.24E-02	1.35E-06	4.76E-06
24	2.89E-06	1.72E-08	2.54E-08	2.38E-08	3.05E-02	7.45E-02	1.60E-06	5.57E-06
25	3.40E-06	2.01E-08	2.99E-08	2.79E-08	3.12E-02	7.63E-02	1.88E-06	6.43E-06
26	3.95E-06	2.34E-08	3.47E-08	3.24E-08	3.17E-02	7.79E-02	2.18E-06	7.34E-06
27	4.55E-06	2.69E-08	3.99E-08	3.73E-08	3.22E-02	7.92E-02	2.50E-06	8.30E-06
28	5.19E-06	3.07E-08	4.55E-08	4.25E-08	3.25E-02	8.02E-02	2.85E-06	9.30E-06
29	5.86E-06	3.46E-08	5.13E-08	4.80E-08	3.28E-02	8.11E-02	3.21E-06	1.03E-05
30	6.57E-06	3.88E-08	5.76E-08	5.38E-08	3.30E-02	8.18E-02	3.58E-06	1.14E-05
31	7.32E-06	4.32E-08	6.40E-08	5.98E-08	3.32E-02	0.082257	3.97E-06	1.25E-05
32	8.09E-06	4.78E-08	7.08E-08	6.61E-08	3.32E-02	8.26E-02	4.38E-06	1.36E-05
33	8.89E-06	5.25E-08	7.78E-08	7.27E-08	3.32E-02	8.28E-02	4.79E-06	1.47E-05
34	9.72E-06	5.73E-08	8.50E-08	7.94E-08	3.32E-02	8.28E-02	5.21E-06	1.58E-05
35	1.06E-05	6.23E-08	9.23E-08	8.62E-08	3.31E-02	8.28E-02	5.64E-06	1.70E-05
36	1.14E-05	6.73E-08	9.98E-08	9.32E-08	3.30E-02	8.26E-02	6.07E-06	1.81E-05
37	1.23E-05	7.25E-08	1.07E-07	1.00E-07	3.29E-02	8.24E-02	6.51E-06	1.92E-05
38	1.32E-05	7.77E-08	1.15E-07	1.08E-07	3.27E-02	8.21E-02	6.95E-06	2.03E-05
39	1.41E-05	8.29E-08	1.23E-07	1.15E-07	3.25E-02	8.17E-02	7.39E-06	2.14E-05
40	1.50E-05	8.82E-08	1.31E-07	1.22E-07	3.23E-02	8.12E-02	7.82E-06	2.25E-05
41	1.59E-05	9.35E-08	1.39E-07	1.29E-07	3.21E-02	8.07E-02	8.25E-06	2.36E-05
42	1.68E-05	9.88E-08	1.46E-07	1.37E-07	3.18E-02	8.01E-02	8.68E-06	2.46E-05

MIN	0	
MIN x 4	0	
MONTH	GHB_KIM_BUL	
0	0	
1	5.31E-13	
2	7.43E-12	
3	5.12E-11	
4	2.43E-10	
5	8.74E-10	
6	2.63E-09	
7	6.96E-09	
8	1.63E-08	
9	3.44E-08	
10	6.63E-08	
11	1.18E-07	
12	1.98E-07	
13	3.14E-07	
14	4.74E-07	
15	6.87E-07	
16	9.60E-07	
17	1.30E-06	
18	1.72E-06	
19	2.21E-06	
20	2.79E-06	
21	3.45E-06	
22	4.20E-06	
23	5.04E-06	
24	5.96E-06	
25	6.97E-06	
26	8.05E-06	
27	9.21E-06	
28	1.04E-05	
29	1.17E-05	
30	1.31E-05	
31	1.45E-05	
32	1.60E-05	
33	1.75E-05	
34	1.90E-05	
35	2.05E-05	
36	2.21E-05	
37	2.37E-05	
38	2.53E-05	
39	2.69E-05	
40	2.85E-05	
41	3.01E-05	
42	3.17E-05	

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	BANCROFT	D030013	D031013	D031014	D032013	D032014	D033013	D033014
43	2.87E-07	8.09E-08	2.14E-07	2.43E-07	3.87E-08	8.06E-07	3.31E-09	1.37E-06
44	3.05E-07	8.46E-08	2.23E-07	2.55E-07	4.05E-08	8.43E-07	3.47E-09	1.44E-06
45	3.24E-07	8.83E-08	2.33E-07	2.66E-07	4.22E-08	8.79E-07	3.62E-09	1.50E-06
46	3.42E-07	9.19E-08	2.43E-07	2.76E-07	4.40E-08	9.15E-07	3.76E-09	1.56E-06
47	3.60E-07	9.54E-08	2.52E-07	2.87E-07	4.56E-08	9.50E-07	3.91E-09	1.62E-06
48	3.79E-07	9.89E-08	2.61E-07	2.97E-07	4.73E-08	9.84E-07	4.05E-09	1.68E-06
49	3.97E-07	1.02E-07	2.70E-07	3.07E-07	4.89E-08	1.02E-06	4.18E-09	1.74E-06
50	4.15E-07	1.06E-07	2.79E-07	3.17E-07	5.04E-08	1.05E-06	4.32E-09	1.79E-06
51	4.33E-07	1.09E-07	2.87E-07	3.27E-07	5.20E-08	1.08E-06	4.45E-09	1.84E-06
52	4.50E-07	1.12E-07	2.95E-07	3.36E-07	5.34E-08	1.11E-06	4.57E-09	1.90E-06
53	4.68E-07	1.15E-07	3.03E-07	3.45E-07	5.49E-08	1.14E-06	4.70E-09	1.95E-06
54	4.85E-07	1.18E-07	3.11E-07	3.54E-07	5.62E-08	1.17E-06	4.81E-09	2.00E-06
55	5.02E-07	1.21E-07	3.18E-07	3.62E-07	5.76E-08	1.20E-06	4.93E-09	2.04E-06
56	5.18E-07	1.23E-07	3.25E-07	3.70E-07	5.89E-08	1.23E-06	5.04E-09	2.09E-06
57	5.34E-07	1.26E-07	3.32E-07	3.78E-07	6.01E-08	1.25E-06	5.15E-09	2.13E-06
58	5.50E-07	1.28E-07	3.39E-07	3.86E-07	6.13E-08	1.28E-06	5.25E-09	2.18E-06
59	5.66E-07	1.31E-07	3.45E-07	3.93E-07	6.25E-08	1.30E-06	5.35E-09	2.22E-06
60	5.81E-07	1.33E-07	3.51E-07	4.00E-07	6.36E-08	1.32E-06	5.44E-09	2.26E-06
61	5.95E-07	1.35E-07	3.57E-07	4.07E-07	6.46E-08	1.35E-06	5.53E-09	2.29E-06
62	6.10E-07	1.38E-07	3.63E-07	4.13E-07	6.56E-08	1.37E-06	5.62E-09	2.33E-06
63	6.24E-07	1.40E-07	3.68E-07	4.19E-07	6.66E-08	1.39E-06	5.70E-09	2.36E-06
64	6.37E-07	1.42E-07	3.73E-07	4.25E-07	6.75E-08	1.41E-06	5.78E-09	2.40E-06
65	6.50E-07	1.43E-07	3.78E-07	4.30E-07	6.84E-08	1.42E-06	5.86E-09	2.43E-06
66	6.63E-07	1.45E-07	3.83E-07	4.36E-07	6.93E-08	1.44E-06	5.93E-09	2.46E-06
67	6.75E-07	1.47E-07	3.87E-07	4.41E-07	7.01E-08	1.46E-06	6.00E-09	2.49E-06
68	6.87E-07	1.48E-07	3.91E-07	4.46E-07	7.08E-08	1.47E-06	6.06E-09	2.51E-06
69	6.98E-07	1.50E-07	3.95E-07	4.50E-07	7.16E-08	1.49E-06	6.13E-09	2.54E-06
70	7.09E-07	1.51E-07	3.99E-07	4.55E-07	7.23E-08	1.50E-06	6.18E-09	2.56E-06
71	7.20E-07	1.53E-07	4.03E-07	4.59E-07	7.29E-08	1.52E-06	6.24E-09	2.59E-06
72	7.30E-07	1.54E-07	4.06E-07	4.63E-07	7.35E-08	1.53E-06	6.29E-09	2.61E-06
73	7.40E-07	1.55E-07	4.09E-07	4.66E-07	7.41E-08	1.54E-06	6.34E-09	2.63E-06
74	7.50E-07	1.57E-07	4.13E-07	4.70E-07	7.47E-08	1.55E-06	6.39E-09	2.65E-06
75	7.59E-07	1.58E-07	4.15E-07	4.73E-07	7.52E-08	1.57E-06	6.43E-09	2.67E-06
76	7.68E-07	1.59E-07	4.18E-07	4.76E-07	7.57E-08	1.58E-06	6.48E-09	2.69E-06
77	7.76E-07	1.60E-07	4.21E-07	4.79E-07	7.61E-08	1.58E-06	6.52E-09	2.70E-06
78	7.84E-07	1.61E-07	4.23E-07	4.82E-07	7.66E-08	1.59E-06	6.55E-09	2.72E-06
79	7.92E-07	1.61E-07	4.25E-07	4.84E-07	7.70E-08	1.60E-06	6.59E-09	2.73E-06
80	7.99E-07	1.62E-07	4.27E-07	4.87E-07	7.73E-08	1.61E-06	6.62E-09	2.74E-06
81	8.06E-07	1.63E-07	4.29E-07	4.89E-07	7.77E-08	1.62E-06	6.65E-09	2.76E-06
82	8.13E-07	1.64E-07	4.31E-07	4.91E-07	7.80E-08	1.62E-06	6.67E-09	2.77E-06
83	8.19E-07	1.64E-07	4.33E-07	4.93E-07	7.83E-08	1.63E-06	6.70E-09	2.78E-06
84	8.25E-07	1.65E-07	4.34E-07	4.94E-07	7.85E-08	1.64E-06	6.72E-09	2.79E-06
85	8.31E-07	1.65E-07	4.35E-07	4.96E-07	7.88E-08	1.64E-06	6.74E-09	2.80E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D034014	D035014	D036014	MALAD	D037014	BIRCH	D038014	BIGSP
43	3.82E-06	5.18E-07	6.68E-07	1.31E-04	5.45E-07	2.44E-07	3.71E-06	2.74E-05
44	3.99E-06	5.42E-07	6.96E-07	1.36E-04	5.67E-07	2.54E-07	3.86E-06	2.85E-05
45	4.17E-06	5.64E-07	7.24E-07	1.42E-04	5.88E-07	2.64E-07	4.00E-06	2.95E-05
46	4.33E-06	5.87E-07	7.51E-07	1.47E-04	6.09E-07	2.73E-07	4.14E-06	3.06E-05
47	4.50E-06	6.09E-07	7.78E-07	1.52E-04	6.30E-07	2.82E-07	4.28E-06	3.16E-05
48	4.66E-06	6.30E-07	8.03E-07	1.58E-04	6.50E-07	2.91E-07	4.41E-06	3.25E-05
49	4.82E-06	6.51E-07	8.28E-07	1.63E-04	6.69E-07	3.00E-07	4.54E-06	3.35E-05
50	4.97E-06	6.71E-07	8.53E-07	1.67E-04	6.87E-07	3.08E-07	4.66E-06	3.44E-05
51	5.12E-06	6.90E-07	8.76E-07	1.72E-04	7.05E-07	3.16E-07	4.78E-06	3.53E-05
52	5.26E-06	7.10E-07	8.99E-07	1.77E-04	7.23E-07	3.24E-07	4.90E-06	3.61E-05
53	5.40E-06	7.28E-07	9.20E-07	1.81E-04	7.39E-07	3.31E-07	5.01E-06	3.69E-05
54	5.54E-06	7.46E-07	9.41E-07	1.85E-04	7.55E-07	3.38E-07	5.11E-06	3.77E-05
55	5.67E-06	7.63E-07	9.62E-07	1.89E-04	7.70E-07	3.45E-07	5.21E-06	3.84E-05
56	5.80E-06	7.79E-07	9.81E-07	1.93E-04	7.85E-07	3.51E-07	5.31E-06	3.91E-05
57	5.92E-06	7.95E-07	1.00E-06	1.97E-04	7.99E-07	3.58E-07	5.40E-06	3.98E-05
58	6.04E-06	8.11E-07	1.02E-06	2.01E-04	8.12E-07	3.64E-07	5.49E-06	4.04E-05
59	6.15E-06	8.25E-07	1.03E-06	2.04E-04	8.25E-07	3.69E-07	5.57E-06	4.10E-05
60	6.26E-06	8.39E-07	1.05E-06	2.07E-04	8.37E-07	3.75E-07	5.65E-06	4.16E-05
61	6.36E-06	8.53E-07	1.07E-06	2.10E-04	8.49E-07	3.80E-07	5.73E-06	4.22E-05
62	6.46E-06	8.66E-07	1.08E-06	2.13E-04	8.60E-07	3.85E-07	5.80E-06	4.27E-05
63	6.55E-06	8.78E-07	1.10E-06	2.16E-04	8.70E-07	3.89E-07	5.87E-06	4.32E-05
64	6.64E-06	8.90E-07	1.11E-06	2.19E-04	8.80E-07	3.94E-07	5.93E-06	4.37E-05
65	6.73E-06	9.01E-07	1.12E-06	2.22E-04	8.89E-07	3.98E-07	5.99E-06	4.41E-05
66	6.81E-06	9.12E-07	1.13E-06	2.24E-04	8.98E-07	4.02E-07	6.05E-06	4.45E-05
67	6.89E-06	9.22E-07	1.15E-06	2.26E-04	9.06E-07	4.05E-07	6.10E-06	4.49E-05
68	6.97E-06	9.32E-07	1.16E-06	2.29E-04	9.14E-07	4.09E-07	6.15E-06	4.53E-05
69	7.04E-06	9.41E-07	1.17E-06	2.31E-04	9.21E-07	4.12E-07	6.20E-06	4.56E-05
70	7.11E-06	9.49E-07	1.18E-06	2.33E-04	9.28E-07	4.15E-07	6.25E-06	4.60E-05
71	7.17E-06	9.58E-07	1.18E-06	2.34E-04	9.35E-07	4.18E-07	6.29E-06	4.63E-05
72	7.23E-06	9.65E-07	1.19E-06	2.36E-04	9.41E-07	4.21E-07	6.33E-06	4.66E-05
73	7.29E-06	9.73E-07	1.20E-06	2.38E-04	9.46E-07	4.23E-07	6.36E-06	4.68E-05
74	7.34E-06	9.79E-07	1.21E-06	2.39E-04	9.52E-07	4.25E-07	6.40E-06	4.71E-05
75	7.39E-06	9.86E-07	1.22E-06	2.41E-04	9.56E-07	4.28E-07	6.43E-06	4.73E-05
76	7.44E-06	9.92E-07	1.22E-06	2.42E-04	9.61E-07	4.30E-07	6.46E-06	4.75E-05
77	7.48E-06	9.97E-07	1.23E-06	2.43E-04	9.65E-07	4.31E-07	6.48E-06	4.77E-05
78	7.52E-06	1.00E-06	1.23E-06	2.44E-04	9.69E-07	4.33E-07	6.51E-06	4.79E-05
79	7.56E-06	1.01E-06	1.24E-06	2.46E-04	9.72E-07	4.34E-07	6.53E-06	4.80E-05
80	7.60E-06	1.01E-06	1.24E-06	2.47E-04	9.75E-07	4.36E-07	6.55E-06	4.81E-05
81	7.63E-06	1.02E-06	1.25E-06	2.47E-04	9.78E-07	4.37E-07	6.56E-06	4.83E-05
82	7.66E-06	1.02E-06	1.25E-06	2.48E-04	9.80E-07	4.38E-07	6.58E-06	4.84E-05
83	7.69E-06	1.02E-06	1.26E-06	2.49E-04	9.83E-07	4.39E-07	6.59E-06	4.85E-05
84	7.72E-06	1.03E-06	1.26E-06	2.50E-04	9.85E-07	4.40E-07	6.60E-06	4.86E-05
85	7.74E-06	1.03E-06	1.26E-06	2.50E-04	9.86E-07	4.41E-07	6.61E-06	4.86E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D040013	D040014	THREESP	TUCKER	RANGEN	NTLFSHH	THOUSANI	D045011
43	3.32E-07	3.17E-06	5.11E-05	4.47E-06	7.08E-05	4.53E-05	2.07E-04	4.71E-09
44	3.45E-07	3.29E-06	5.31E-05	4.65E-06	7.36E-05	4.71E-05	2.15E-04	4.89E-09
45	3.58E-07	3.42E-06	5.50E-05	4.82E-06	7.63E-05	4.88E-05	2.22E-04	5.06E-09
46	3.70E-07	3.54E-06	5.70E-05	4.99E-06	7.90E-05	5.05E-05	2.30E-04	5.23E-09
47	3.82E-07	3.65E-06	5.88E-05	5.15E-06	8.15E-05	5.21E-05	2.37E-04	5.39E-09
48	3.94E-07	3.76E-06	6.06E-05	5.30E-06	8.40E-05	5.37E-05	2.44E-04	5.54E-09
49	4.05E-07	3.87E-06	6.23E-05	5.46E-06	8.64E-05	5.52E-05	2.51E-04	5.69E-09
50	4.16E-07	3.97E-06	6.40E-05	5.60E-06	8.87E-05	5.67E-05	2.57E-04	5.83E-09
51	4.27E-07	4.08E-06	6.56E-05	5.74E-06	9.09E-05	5.81E-05	2.63E-04	5.97E-09
52	4.37E-07	4.17E-06	6.72E-05	5.88E-06	9.30E-05	5.94E-05	2.69E-04	6.10E-09
53	4.46E-07	4.26E-06	6.87E-05	6.00E-06	9.51E-05	6.08E-05	2.75E-04	6.23E-09
54	4.56E-07	4.35E-06	7.01E-05	6.13E-06	9.71E-05	6.20E-05	2.81E-04	6.35E-09
55	4.65E-07	4.44E-06	7.15E-05	6.25E-06	9.89E-05	6.32E-05	2.86E-04	6.47E-09
56	4.73E-07	4.52E-06	7.28E-05	6.36E-06	1.01E-04	6.43E-05	2.91E-04	6.58E-09
57	4.81E-07	4.60E-06	7.40E-05	6.47E-06	1.02E-04	6.54E-05	2.96E-04	6.68E-09
58	4.89E-07	4.67E-06	7.52E-05	6.57E-06	1.04E-04	6.65E-05	3.00E-04	6.78E-09
59	4.96E-07	4.74E-06	7.63E-05	6.67E-06	1.06E-04	6.74E-05	3.04E-04	6.88E-09
60	5.03E-07	4.81E-06	7.74E-05	6.76E-06	1.07E-04	6.84E-05	3.09E-04	6.97E-09
61	5.10E-07	4.87E-06	7.84E-05	6.85E-06	1.08E-04	6.93E-05	3.12E-04	7.05E-09
62	5.16E-07	4.93E-06	7.94E-05	6.93E-06	1.10E-04	7.01E-05	3.16E-04	7.13E-09
63	5.22E-07	4.99E-06	8.03E-05	7.01E-06	1.11E-04	7.09E-05	3.20E-04	7.21E-09
64	5.28E-07	5.05E-06	8.12E-05	7.09E-06	1.12E-04	7.16E-05	3.23E-04	7.28E-09
65	5.33E-07	5.10E-06	8.20E-05	7.16E-06	1.13E-04	7.23E-05	3.26E-04	7.34E-09
66	5.38E-07	5.14E-06	8.28E-05	7.22E-06	1.14E-04	7.30E-05	3.29E-04	7.41E-09
67	5.43E-07	5.19E-06	8.35E-05	7.29E-06	1.15E-04	7.36E-05	3.32E-04	7.47E-09
68	5.48E-07	5.23E-06	8.42E-05	7.35E-06	1.16E-04	7.42E-05	3.34E-04	7.52E-09
69	5.52E-07	5.27E-06	8.48E-05	7.40E-06	1.17E-04	7.48E-05	3.37E-04	7.57E-09
70	5.56E-07	5.31E-06	8.54E-05	7.45E-06	1.18E-04	7.53E-05	3.39E-04	7.62E-09
71	5.59E-07	5.34E-06	8.60E-05	7.50E-06	1.19E-04	7.58E-05	3.41E-04	7.66E-09
72	5.63E-07	5.38E-06	8.65E-05	7.54E-06	1.20E-04	7.62E-05	3.43E-04	7.71E-09
73	5.66E-07	5.41E-06	8.70E-05	7.59E-06	1.20E-04	7.66E-05	3.45E-04	7.74E-09
74	5.69E-07	5.43E-06	8.74E-05	7.62E-06	1.21E-04	7.70E-05	3.46E-04	7.78E-09
75	5.71E-07	5.46E-06	8.78E-05	7.66E-06	1.21E-04	7.74E-05	3.48E-04	7.81E-09
76	5.74E-07	5.48E-06	8.82E-05	7.69E-06	1.22E-04	7.77E-05	3.49E-04	7.84E-09
77	5.76E-07	5.50E-06	8.85E-05	7.72E-06	1.22E-04	7.80E-05	3.50E-04	7.87E-09
78	5.78E-07	5.52E-06	8.88E-05	7.75E-06	1.23E-04	7.83E-05	3.51E-04	7.89E-09
79	5.80E-07	5.54E-06	8.91E-05	7.77E-06	1.23E-04	7.85E-05	3.52E-04	7.91E-09
80	5.82E-07	5.56E-06	8.94E-05	7.79E-06	1.23E-04	7.87E-05	3.53E-04	7.93E-09
81	5.83E-07	5.57E-06	8.96E-05	7.81E-06	1.24E-04	7.89E-05	3.54E-04	7.95E-09
82	5.84E-07	5.59E-06	8.98E-05	7.83E-06	1.24E-04	7.91E-05	3.55E-04	7.96E-09
83	5.86E-07	5.60E-06	9.00E-05	7.84E-06	1.24E-04	7.92E-05	3.55E-04	7.97E-09
84	5.87E-07	5.61E-06	9.01E-05	7.86E-06	1.24E-04	7.93E-05	3.56E-04	7.98E-09
85	5.87E-07	5.61E-06	9.03E-05	7.87E-06	1.25E-04	7.95E-05	3.56E-04	7.99E-09

MIN	0	0	0	0	0	-0.03933	0	0
MIN x 4	0	0	0	0	0	-0.15732	0	0
MONTH	D045012	SAND	D047011	BOX	BANBURY	ASH_REX	BRIGGS	HEISE_SHE
43	1.42E-07	8.18E-05	4.92E-07	3.09E-04	1.47E-05	-0.00361	5.05E-06	0.070722
44	1.47E-07	8.48E-05	5.10E-07	3.20E-04	1.52E-05	-0.00111	5.23E-06	0.070316
45	1.53E-07	8.77E-05	5.28E-07	3.31E-04	1.57E-05	0.001299	5.41E-06	0.069927
46	1.58E-07	9.06E-05	5.45E-07	3.42E-04	1.62E-05	0.00361	5.59E-06	0.069548
47	1.62E-07	9.33E-05	5.61E-07	3.52E-04	1.67E-05	0.005821	5.76E-06	0.069176
48	1.67E-07	9.60E-05	5.77E-07	3.62E-04	1.72E-05	0.007933	5.92E-06	0.068805
49	1.72E-07	9.86E-05	5.92E-07	3.72E-04	1.76E-05	0.009945	6.08E-06	0.068431
50	1.76E-07	1.01E-04	6.07E-07	3.81E-04	1.81E-05	0.011857	6.23E-06	0.068054
51	1.80E-07	1.03E-04	6.21E-07	3.90E-04	1.85E-05	0.013671	6.37E-06	0.06767
52	1.84E-07	1.06E-04	6.35E-07	3.98E-04	1.89E-05	0.015388	6.51E-06	0.067278
53	1.88E-07	1.08E-04	6.48E-07	4.06E-04	1.93E-05	0.01701	6.64E-06	0.066878
54	1.91E-07	1.10E-04	6.60E-07	4.14E-04	1.96E-05	0.01854	6.77E-06	0.066468
55	1.95E-07	1.12E-04	6.72E-07	4.21E-04	2.00E-05	0.01998	6.89E-06	0.06605
56	1.98E-07	1.14E-04	6.83E-07	4.28E-04	2.03E-05	0.021334	7.00E-06	0.065621
57	2.01E-07	1.16E-04	6.94E-07	4.35E-04	2.06E-05	0.022603	7.11E-06	0.065183
58	2.04E-07	1.17E-04	7.04E-07	4.42E-04	2.09E-05	0.023793	7.22E-06	0.064736
59	2.07E-07	1.19E-04	7.13E-07	4.48E-04	2.12E-05	0.024904	7.32E-06	0.06428
60	2.10E-07	1.20E-04	7.22E-07	4.53E-04	2.15E-05	0.025941	7.41E-06	0.063816
61	2.13E-07	1.22E-04	7.31E-07	4.59E-04	2.18E-05	0.026906	7.50E-06	0.063343
62	2.15E-07	1.23E-04	7.39E-07	4.64E-04	2.20E-05	0.027804	7.58E-06	0.062863
63	2.17E-07	1.24E-04	7.47E-07	4.69E-04	2.22E-05	0.028635	7.66E-06	0.062376
64	2.19E-07	1.26E-04	7.54E-07	4.73E-04	2.24E-05	0.029405	7.73E-06	0.061883
65	2.21E-07	1.27E-04	7.61E-07	4.77E-04	2.26E-05	0.030115	7.80E-06	0.061384
66	2.23E-07	1.28E-04	7.67E-07	4.81E-04	2.28E-05	0.030768	7.87E-06	0.06088
67	2.25E-07	1.29E-04	7.73E-07	4.85E-04	2.30E-05	0.031367	7.93E-06	0.060371
68	2.27E-07	1.30E-04	7.79E-07	4.89E-04	2.32E-05	0.031916	7.99E-06	0.059858
69	2.28E-07	1.31E-04	7.84E-07	4.92E-04	2.33E-05	0.032415	8.04E-06	0.059342
70	2.30E-07	1.32E-04	7.89E-07	4.95E-04	2.35E-05	0.032868	8.09E-06	0.058823
71	2.31E-07	1.32E-04	7.93E-07	4.98E-04	2.36E-05	0.033277	8.13E-06	0.058301
72	2.32E-07	1.33E-04	7.97E-07	5.00E-04	2.37E-05	0.033645	8.18E-06	0.057777
73	2.33E-07	1.34E-04	8.01E-07	5.03E-04	2.38E-05	0.033973	8.21E-06	0.057252
74	2.34E-07	1.34E-04	8.05E-07	5.05E-04	2.39E-05	0.034263	8.25E-06	0.056726
75	2.35E-07	1.35E-04	8.08E-07	5.07E-04	2.40E-05	0.034519	8.28E-06	0.056199
76	2.36E-07	1.35E-04	8.11E-07	5.09E-04	2.41E-05	0.034741	8.31E-06	0.055672
77	2.37E-07	1.36E-04	8.13E-07	5.10E-04	2.42E-05	0.034931	8.34E-06	0.055146
78	2.38E-07	1.36E-04	8.16E-07	5.12E-04	2.43E-05	0.035091	8.36E-06	0.05462
79	2.38E-07	1.36E-04	8.18E-07	5.13E-04	2.43E-05	0.035224	8.38E-06	0.054094
80	2.39E-07	1.37E-04	8.20E-07	5.14E-04	2.44E-05	0.035329	8.40E-06	0.05357
81	2.39E-07	1.37E-04	8.21E-07	5.15E-04	2.44E-05	0.03541	8.42E-06	0.053047
82	2.40E-07	1.37E-04	8.22E-07	5.16E-04	2.45E-05	0.035467	8.43E-06	0.052527
83	2.40E-07	1.37E-04	8.24E-07	5.17E-04	2.45E-05	0.035501	8.44E-06	0.052008
84	2.41E-07	1.38E-04	8.25E-07	5.18E-04	2.45E-05	0.035515	8.45E-06	0.051491
85	2.41E-07	1.38E-04	8.25E-07	5.18E-04	2.46E-05	0.035509	8.46E-06	0.050977

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	CLEARLK	D050014	D051014	NIAGARA	CRYSTAL	D057020	D058020	ELISON
43	1.88E-04	2.74E-09	1.22E-08	1.46E-04	2.14E-04	3.04E-07	8.93E-08	6.10E-07
44	1.95E-04	2.84E-09	1.27E-08	1.51E-04	2.22E-04	3.15E-07	9.27E-08	6.33E-07
45	2.01E-04	2.94E-09	1.31E-08	1.56E-04	2.30E-04	3.26E-07	9.60E-08	6.56E-07
46	2.08E-04	3.03E-09	1.35E-08	1.61E-04	2.37E-04	3.37E-07	9.92E-08	6.78E-07
47	2.14E-04	3.12E-09	1.39E-08	1.66E-04	2.44E-04	3.48E-07	1.02E-07	6.99E-07
48	2.20E-04	3.21E-09	1.43E-08	1.71E-04	2.51E-04	3.58E-07	1.05E-07	7.20E-07
49	2.26E-04	3.29E-09	1.47E-08	1.75E-04	2.58E-04	3.67E-07	1.08E-07	7.39E-07
50	2.32E-04	3.37E-09	1.51E-08	1.80E-04	2.64E-04	3.77E-07	1.11E-07	7.58E-07
51	2.37E-04	3.45E-09	1.54E-08	1.84E-04	2.70E-04	3.85E-07	1.14E-07	7.77E-07
52	2.42E-04	3.53E-09	1.58E-08	1.88E-04	2.76E-04	3.94E-07	1.16E-07	7.94E-07
53	2.47E-04	3.60E-09	1.61E-08	1.91E-04	2.82E-04	4.02E-07	1.19E-07	8.11E-07
54	2.52E-04	3.67E-09	1.64E-08	1.95E-04	2.87E-04	4.10E-07	1.21E-07	8.27E-07
55	2.56E-04	3.73E-09	1.67E-08	1.99E-04	2.92E-04	4.18E-07	1.23E-07	8.42E-07
56	2.60E-04	3.79E-09	1.69E-08	2.02E-04	2.97E-04	4.25E-07	1.25E-07	8.57E-07
57	2.65E-04	3.85E-09	1.72E-08	2.05E-04	3.02E-04	4.31E-07	1.27E-07	8.71E-07
58	2.68E-04	3.91E-09	1.75E-08	2.08E-04	3.06E-04	4.38E-07	1.29E-07	8.84E-07
59	2.72E-04	3.96E-09	1.77E-08	2.11E-04	3.10E-04	4.44E-07	1.31E-07	8.97E-07
60	2.76E-04	4.01E-09	1.79E-08	2.14E-04	3.14E-04	4.50E-07	1.33E-07	9.09E-07
61	2.79E-04	4.06E-09	1.81E-08	2.16E-04	3.18E-04	4.55E-07	1.34E-07	9.20E-07
62	2.82E-04	4.11E-09	1.83E-08	2.18E-04	3.22E-04	4.60E-07	1.36E-07	9.30E-07
63	2.85E-04	4.15E-09	1.85E-08	2.21E-04	3.25E-04	4.65E-07	1.37E-07	9.40E-07
64	2.88E-04	4.19E-09	1.87E-08	2.23E-04	3.28E-04	4.70E-07	1.39E-07	9.50E-07
65	2.90E-04	4.23E-09	1.89E-08	2.25E-04	3.31E-04	4.74E-07	1.40E-07	9.59E-07
66	2.93E-04	4.26E-09	1.90E-08	2.27E-04	3.34E-04	4.78E-07	1.41E-07	9.67E-07
67	2.95E-04	4.29E-09	1.92E-08	2.28E-04	3.36E-04	4.82E-07	1.43E-07	9.75E-07
68	2.97E-04	4.32E-09	1.93E-08	2.30E-04	3.39E-04	4.86E-07	1.44E-07	9.82E-07
69	2.99E-04	4.35E-09	1.94E-08	2.32E-04	3.41E-04	4.89E-07	1.45E-07	9.89E-07
70	3.01E-04	4.38E-09	1.96E-08	2.33E-04	3.43E-04	4.92E-07	1.45E-07	9.96E-07
71	3.02E-04	4.40E-09	1.97E-08	2.34E-04	3.45E-04	4.95E-07	1.46E-07	1.00E-06
72	3.04E-04	4.43E-09	1.98E-08	2.35E-04	3.47E-04	4.97E-07	1.47E-07	1.01E-06
73	3.05E-04	4.45E-09	1.99E-08	2.37E-04	3.48E-04	5.00E-07	1.48E-07	1.01E-06
74	3.07E-04	4.47E-09	1.99E-08	2.38E-04	3.50E-04	5.02E-07	1.49E-07	1.02E-06
75	3.08E-04	4.48E-09	2.00E-08	2.39E-04	3.51E-04	5.04E-07	1.49E-07	1.02E-06
76	3.09E-04	4.50E-09	2.01E-08	2.39E-04	3.53E-04	5.06E-07	1.50E-07	1.02E-06
77	3.10E-04	4.51E-09	2.02E-08	2.40E-04	3.54E-04	5.08E-07	1.50E-07	1.03E-06
78	3.11E-04	4.53E-09	2.02E-08	2.41E-04	3.55E-04	5.09E-07	1.51E-07	1.03E-06
79	3.12E-04	4.54E-09	2.03E-08	2.41E-04	3.56E-04	5.11E-07	1.51E-07	1.03E-06
80	3.12E-04	4.55E-09	2.03E-08	2.42E-04	3.56E-04	5.12E-07	1.51E-07	1.04E-06
81	3.13E-04	4.56E-09	2.04E-08	2.42E-04	3.57E-04	5.13E-07	1.52E-07	1.04E-06
82	3.13E-04	4.56E-09	2.04E-08	2.43E-04	3.58E-04	5.14E-07	1.52E-07	1.04E-06
83	3.14E-04	4.57E-09	2.04E-08	2.43E-04	3.58E-04	5.14E-07	1.52E-07	1.04E-06
84	3.14E-04	4.58E-09	2.04E-08	2.43E-04	3.59E-04	5.15E-07	1.52E-07	1.04E-06
85	3.15E-04	4.58E-09	2.05E-08	2.44E-04	3.59E-04	5.16E-07	1.53E-07	1.05E-06

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	D059021	D059022	D061023	D062023	BLUELK	D064026	D065027	DEVILC
43	4.21E-09	1.03E-07	7.77E-07	1.86E-07	7.79E-05	1.67E-06	1.64E-06	2.33E-05
44	4.37E-09	1.07E-07	8.11E-07	1.94E-07	8.15E-05	1.75E-06	1.73E-06	2.45E-05
45	4.53E-09	1.11E-07	8.43E-07	2.02E-07	8.51E-05	1.83E-06	1.81E-06	2.57E-05
46	4.68E-09	1.15E-07	8.75E-07	2.10E-07	8.86E-05	1.92E-06	1.89E-06	2.68E-05
47	4.83E-09	1.18E-07	9.06E-07	2.18E-07	9.20E-05	2.00E-06	1.97E-06	2.80E-05
48	4.98E-09	1.22E-07	9.36E-07	2.25E-07	9.54E-05	2.08E-06	2.05E-06	2.91E-05
49	5.12E-09	1.26E-07	9.65E-07	2.33E-07	9.87E-05	2.16E-06	2.13E-06	3.02E-05
50	5.25E-09	1.29E-07	9.94E-07	2.40E-07	1.02E-04	2.23E-06	2.21E-06	3.13E-05
51	5.38E-09	1.32E-07	1.02E-06	2.46E-07	1.05E-04	2.31E-06	2.29E-06	3.24E-05
52	5.51E-09	1.35E-07	1.05E-06	2.53E-07	1.08E-04	2.38E-06	2.36E-06	3.34E-05
53	5.62E-09	1.38E-07	1.07E-06	2.59E-07	1.11E-04	2.45E-06	2.43E-06	3.45E-05
54	5.74E-09	1.41E-07	1.10E-06	2.65E-07	1.14E-04	2.52E-06	2.50E-06	3.55E-05
55	5.85E-09	1.44E-07	1.12E-06	2.71E-07	1.17E-04	2.59E-06	2.57E-06	3.64E-05
56	5.95E-09	1.46E-07	1.14E-06	2.77E-07	1.19E-04	2.66E-06	2.64E-06	3.74E-05
57	6.05E-09	1.49E-07	1.17E-06	2.82E-07	1.22E-04	2.72E-06	2.71E-06	3.83E-05
58	6.14E-09	1.51E-07	1.19E-06	2.88E-07	1.24E-04	2.79E-06	2.77E-06	3.92E-05
59	6.23E-09	1.53E-07	1.21E-06	2.93E-07	1.27E-04	2.85E-06	2.83E-06	4.01E-05
60	6.32E-09	1.55E-07	1.23E-06	2.97E-07	1.29E-04	2.91E-06	2.89E-06	4.09E-05
61	6.40E-09	1.57E-07	1.24E-06	3.02E-07	1.31E-04	2.96E-06	2.95E-06	4.18E-05
62	6.47E-09	1.59E-07	1.26E-06	3.06E-07	1.33E-04	3.02E-06	3.00E-06	4.25E-05
63	6.55E-09	1.61E-07	1.28E-06	3.11E-07	1.35E-04	3.07E-06	3.06E-06	4.33E-05
64	6.61E-09	1.63E-07	1.29E-06	3.14E-07	1.37E-04	3.12E-06	3.11E-06	4.40E-05
65	6.68E-09	1.64E-07	1.31E-06	3.18E-07	1.39E-04	3.17E-06	3.16E-06	4.48E-05
66	6.74E-09	1.66E-07	1.32E-06	3.22E-07	1.41E-04	3.22E-06	3.21E-06	4.54E-05
67	6.79E-09	1.67E-07	1.33E-06	3.25E-07	1.43E-04	3.26E-06	3.25E-06	4.61E-05
68	6.85E-09	1.68E-07	1.35E-06	3.28E-07	1.44E-04	3.30E-06	3.30E-06	4.67E-05
69	6.90E-09	1.70E-07	1.36E-06	3.31E-07	1.46E-04	3.34E-06	3.34E-06	4.73E-05
70	6.94E-09	1.71E-07	1.37E-06	3.34E-07	1.47E-04	3.38E-06	3.38E-06	4.79E-05
71	6.98E-09	1.72E-07	1.38E-06	3.37E-07	1.49E-04	3.42E-06	3.42E-06	4.85E-05
72	7.02E-09	1.73E-07	1.39E-06	3.40E-07	1.50E-04	3.46E-06	3.46E-06	4.90E-05
73	7.06E-09	1.74E-07	1.40E-06	3.42E-07	1.51E-04	3.49E-06	3.50E-06	4.95E-05
74	7.09E-09	1.75E-07	1.41E-06	3.44E-07	1.52E-04	3.52E-06	3.53E-06	5.00E-05
75	7.12E-09	1.75E-07	1.42E-06	3.46E-07	1.53E-04	3.56E-06	3.56E-06	5.05E-05
76	7.15E-09	1.76E-07	1.42E-06	3.48E-07	1.54E-04	3.58E-06	3.59E-06	5.09E-05
77	7.18E-09	1.77E-07	1.43E-06	3.50E-07	1.55E-04	3.61E-06	3.62E-06	5.13E-05
78	7.20E-09	1.77E-07	1.44E-06	3.52E-07	1.56E-04	3.64E-06	3.65E-06	5.17E-05
79	7.22E-09	1.78E-07	1.44E-06	3.53E-07	1.57E-04	3.66E-06	3.68E-06	5.21E-05
80	7.24E-09	1.78E-07	1.45E-06	3.55E-07	1.58E-04	3.69E-06	3.70E-06	5.24E-05
81	7.26E-09	1.79E-07	1.45E-06	3.56E-07	1.59E-04	3.71E-06	3.72E-06	5.28E-05
82	7.27E-09	1.79E-07	1.46E-06	3.57E-07	1.59E-04	3.73E-06	3.75E-06	5.31E-05
83	7.28E-09	1.80E-07	1.46E-06	3.58E-07	1.60E-04	3.75E-06	3.77E-06	5.34E-05
84	7.29E-09	1.80E-07	1.46E-06	3.59E-07	1.61E-04	3.77E-06	3.79E-06	5.36E-05
85	7.30E-09	1.80E-07	1.47E-06	3.60E-07	1.61E-04	3.78E-06	3.80E-06	5.39E-05

MIN	0	0	0	0	0	0	0	0
MIN x 4	0	0	0	0	0	0	0	0
MONTH	DEVILW	D068029	D069029	D070030	SHELNRLB	NRBLKFM	GHB_LSF	GHB_BUL
43	1.77E-05	1.04E-07	1.54E-07	1.44E-07	0.031523	7.95E-02	9.11E-06	2.56E-05
44	1.86E-05	1.09E-07	1.62E-07	1.51E-07	3.12E-02	7.89E-02	9.52E-06	2.66E-05
45	1.95E-05	1.15E-07	1.70E-07	1.59E-07	3.09E-02	7.82E-02	9.93E-06	2.76E-05
46	2.03E-05	1.20E-07	1.77E-07	1.66E-07	3.06E-02	7.75E-02	1.03E-05	2.85E-05
47	2.12E-05	1.25E-07	1.85E-07	1.73E-07	3.03E-02	0.076788	1.07E-05	2.94E-05
48	2.21E-05	1.30E-07	1.92E-07	1.80E-07	3.00E-02	7.61E-02	1.11E-05	3.03E-05
49	2.29E-05	1.35E-07	2.00E-07	1.87E-07	2.97E-02	7.53E-02	1.15E-05	3.11E-05
50	2.37E-05	1.40E-07	2.07E-07	1.93E-07	0.029359	7.45E-02	1.19E-05	3.19E-05
51	2.46E-05	1.44E-07	2.14E-07	2.00E-07	2.90E-02	7.38E-02	1.22E-05	3.27E-05
52	2.54E-05	1.49E-07	2.21E-07	2.07E-07	2.87E-02	0.073005	1.26E-05	3.35E-05
53	2.61E-05	1.54E-07	2.28E-07	2.13E-07	0.028375	7.22E-02	1.29E-05	3.42E-05
54	2.69E-05	1.58E-07	2.35E-07	2.19E-07	2.80E-02	7.15E-02	1.32E-05	3.49E-05
55	2.76E-05	1.63E-07	2.41E-07	2.25E-07	2.77E-02	7.07E-02	1.35E-05	3.55E-05
56	2.84E-05	1.67E-07	2.47E-07	2.31E-07	2.74E-02	6.99E-02	1.38E-05	3.62E-05
57	2.91E-05	1.71E-07	2.53E-07	2.37E-07	2.71E-02	6.91E-02	1.41E-05	3.68E-05
58	2.98E-05	1.75E-07	2.59E-07	2.42E-07	2.68E-02	6.84E-02	1.44E-05	3.73E-05
59	3.04E-05	1.79E-07	2.65E-07	2.48E-07	2.64E-02	6.76E-02	1.47E-05	3.79E-05
60	3.11E-05	1.83E-07	2.71E-07	2.53E-07	0.026118	6.68E-02	1.49E-05	3.84E-05
61	3.17E-05	1.86E-07	2.76E-07	2.58E-07	2.58E-02	6.61E-02	1.52E-05	3.89E-05
62	3.23E-05	1.90E-07	2.81E-07	2.63E-07	2.55E-02	6.53E-02	1.54E-05	3.94E-05
63	3.29E-05	1.93E-07	2.87E-07	2.68E-07	2.52E-02	0.064617	1.57E-05	3.98E-05
64	3.34E-05	1.97E-07	2.91E-07	2.72E-07	2.49E-02	6.39E-02	1.59E-05	4.02E-05
65	3.40E-05	2.00E-07	2.96E-07	2.77E-07	2.46E-02	6.32E-02	1.61E-05	4.06E-05
66	3.45E-05	2.03E-07	3.01E-07	2.81E-07	2.43E-02	6.25E-02	1.63E-05	4.10E-05
67	3.50E-05	2.06E-07	3.05E-07	2.85E-07	2.40E-02	6.18E-02	1.65E-05	4.13E-05
68	3.55E-05	2.09E-07	3.09E-07	2.89E-07	2.37E-02	6.11E-02	1.67E-05	4.16E-05
69	3.59E-05	2.11E-07	3.13E-07	2.93E-07	2.35E-02	6.04E-02	1.68E-05	4.19E-05
70	3.64E-05	2.14E-07	3.17E-07	2.96E-07	2.32E-02	0.059738	1.70E-05	4.22E-05
71	3.68E-05	2.17E-07	3.21E-07	3.00E-07	2.29E-02	5.91E-02	1.71E-05	4.25E-05
72	3.72E-05	2.19E-07	3.25E-07	3.03E-07	2.26E-02	5.84E-02	1.73E-05	4.27E-05
73	3.76E-05	2.21E-07	3.28E-07	3.06E-07	2.24E-02	5.78E-02	1.74E-05	4.30E-05
74	3.80E-05	2.23E-07	3.31E-07	3.09E-07	2.21E-02	5.72E-02	1.75E-05	4.32E-05
75	3.83E-05	2.26E-07	3.34E-07	3.12E-07	2.19E-02	0.056553	1.77E-05	4.34E-05
76	3.87E-05	2.28E-07	3.37E-07	3.15E-07	2.16E-02	0.055947	1.78E-05	4.35E-05
77	3.90E-05	2.29E-07	3.40E-07	3.18E-07	2.14E-02	5.54E-02	1.79E-05	4.37E-05
78	3.93E-05	2.31E-07	3.43E-07	3.20E-07	2.11E-02	5.48E-02	1.80E-05	4.38E-05
79	3.96E-05	2.33E-07	3.45E-07	3.23E-07	2.09E-02	0.054189	1.81E-05	4.40E-05
80	3.99E-05	2.34E-07	3.48E-07	3.25E-07	2.07E-02	5.36E-02	1.82E-05	4.41E-05
81	4.01E-05	2.36E-07	3.50E-07	3.27E-07	2.05E-02	5.31E-02	1.83E-05	4.42E-05
82	4.04E-05	2.37E-07	3.52E-07	3.29E-07	2.02E-02	5.25E-02	1.83E-05	4.43E-05
83	4.06E-05	2.39E-07	3.54E-07	3.31E-07	2.00E-02	5.20E-02	1.84E-05	4.44E-05
84	4.08E-05	2.40E-07	3.56E-07	3.32E-07	1.98E-02	5.15E-02	1.85E-05	4.44E-05
85	4.10E-05	2.41E-07	3.57E-07	3.34E-07	1.96E-02	5.09E-02	1.85E-05	4.45E-05

MIN	0	
MIN x 4	0	
MONTH	GHB_KIM_BUL	
43	3.32E-05	
44	3.48E-05	
45	3.63E-05	
46	3.79E-05	
47	3.93E-05	
48	4.08E-05	
49	4.22E-05	
50	4.36E-05	
51	4.50E-05	
52	4.63E-05	
53	4.76E-05	
54	4.89E-05	
55	5.01E-05	
56	5.13E-05	
57	5.25E-05	
58	5.36E-05	
59	5.46E-05	
60	5.57E-05	
61	5.67E-05	
62	5.76E-05	
63	5.86E-05	
64	5.95E-05	
65	6.03E-05	
66	6.11E-05	
67	6.19E-05	
68	6.27E-05	
69	6.34E-05	
70	6.41E-05	
71	6.47E-05	
72	6.53E-05	
73	6.59E-05	
74	6.65E-05	
75	6.70E-05	
76	6.75E-05	
77	6.80E-05	
78	6.84E-05	
79	6.88E-05	
80	6.92E-05	
81	6.96E-05	
82	6.99E-05	
83	7.03E-05	
84	7.06E-05	
85	7.08E-05	

Edl, Michele

From: bcontor.rm@gmail.com on behalf of Bryce Contor
[bcontor@rockymountainenvironmental.com]
Sent: Monday, March 23, 2015 6:17 PM
To: Edl, Michele
Subject: Re: Pocock Rental Fee 2015

I apologize, this is just an oversight. I did the modeling based on an old map, using the one POD in the center of the four pivots. Later when I pulled up the water rights to fill out the application form, it didn't occur to me that the two wells would be in adjacent model cells.

You are correct, the model can be run with two "to" wells. I'll get that done and hurried back to you.

Bryce

On Mon, Mar 23, 2015 at 5:48 PM, Edl, Michele wrote:

> Mr. Contor,

>

> I have been assigned

> from the State Water S

> question about the loc

> Supply Bank rental can

> to be clear on the well

>

>

>

> Page three part D of the

> wells is located in the S

> pretty sure that we are b

> the quarter. Our database

>

> However, when I compare the

> of the two wells as our dat

> but different cell addresse

> excerpts of your model runs

>

>

>

> I read your Attachment G: Aqu

> explanation for your choice.

> modeling the ESPA. But I unde

Does Mr.

> Pocock's system lean on one wel

>

>

>

> I have paused in my review of th

> both considering the same two wel

> explanation for your modeling cho

> before the irrigation season start

convenience.

>

>

2015 4/1/02
22-2175B 0.62 cfs (3.5 af/ac) 136.5 af 39 ac
2015 6/1/02 1.64 287 af 82 ac
22-7336 Rented 1.39 243.2 af 69.5 ac
(0.92) (161 af) (46 ac)
3.5 af/ac
2018 7/1/14 0.33 79.6 af 37.5 ac
22-13814 0.33 79.6 af 37.5 ac
22-13816 0.75 79.6 af 37.5 ac
1.08 cfs

Availability

22-2175 : fully available

22-7336 : 0.25 cfs 43.8 af 23.5 ac

22-13814 : fully available

22-13816 : doesn't request all cfs
only 3 wells

ar so good.

not 65/192.

WELLS.

your earliest possible

>
> Sincerely,
>
> Michele Edl
>
> 208-287-4946

--
Bryce A. Contor
Senior Hydrologist

482 Constitution, Idaho Falls, ID 83402
E-Mail: bcontor@rockymountainenvironmental.com
Alt. E-Mail: bcontor.rm@gmail.com
VOICE: 208-524-2353 ||| FAX: 208-524-1795 ||| CELL: 208-681-9100

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No. L 3323		Due no later than Jan 31, 2015		2. Registered Agent and Address (NO PO BOX)			
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE		1. Mailing Address: Correct in this box if needed. RALPH R. AND BETH POCOCK FAMILY LIMITED PARTNERSHIP (THE) RAY R POCOCK 2964 N 5000 E SUGAR CITY ID 83448		RAY R POCOCK 2964 N 5000 E SUGAR CITY 83448			
				3. <u>New</u> Registered Agent Signature:*			
Office Held	Name	Street or PO Address	City	State	Country	Postal Code	
GENERAL PARTNER	RALPH R POCOCK FARMS INC	2964 N 5000 E	SUGAR CITY	ID	USA	83448	
GENERAL PARTNER	RAY R POCOCK	2964 N 5000 E	SUGAR CITY	ID	USA	83448	
5. Organized Under the Laws of: ID L 3323		6. Annual Report must be signed.* Signature: Ray R Pocock Name (type or print): Ray R Pocock Date: 12/01/2014 Title: General Partner					
Processed 12/01/2014		* Electronically provided signatures are accepted as original signatures.					

Edl, Michele

To: bcontor@rockymountainenvironmental.com
Subject: Pocock Rental Fee 2015

Mr. Contor,

I have been assigned to review Ray Pocock's application to rent water from the State Water Supply Bank for the 2015 season. I have a question about the locations of the proposed wells. Because a Water Supply Bank rental cannot authorize construction of a new well, I need to be clear on the well locations before I proceed with the review.

Page three part D of the Application states that one of the proposed wells is located in the **SWSWNE** of sec 24, Twp 6N, Rge 41E. I am pretty sure that we are both looking at the well near the center of the quarter. Our database indicates that it is located in the **NENESW**. So far so good.

However, when I compare the **ESPA** grid cell addresses to the locations of the two wells as our data base shows them, I see two neighboring but different cell addresses: 64/192 and 65/192. If I am reading the excerpts of your model runs correctly, you chose to run the model using 64/192 not 65/192.

I read your Attachment G: Aquifer Modeling but didn't see an explanation for your choice. Compared to you, I am a novice at modeling the **ESPA**. But I understood that the full model could accept multiple **TO WELLS**. Does Mr. Pocock's system lean on one well more than the other?

I have paused in my review of this application until I am sure we are both considering the same two wells. Please provide me a brief explanation for your modeling choice. I hope to complete my review before the irrigation season starts so please contact me at your earliest possible convenience.

Sincerely,
Michele Edl
208-287-4946