ATTACHMENT 33

Powertech Dewey Burdock emails

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PostedDate:  11/19/2007 11:55:43 AM
Recipients:  <pmoran@knightpiesold.com>
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InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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BlindCopyTo:
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Hi Patsy, I appreciate your help in taking on those boxes of old files
last Friday. You also inspired me to start looking up references. I was
looking in our EPA library to see if we had 2 TVA reports about hydrology

at the D-B sites. They don't but will ask for them on inter-library loan. It will take a couple of weeks. Just because I am so eager to read them - I'd thought I would ask... Would you happen to have them in an electronic format?

1980, Analysis of aquifer tests conducted at the proposed Burdock uranium mine site Burdock, SD: Report No. WR28-8-520-109
1983, Hydrologic investigations at proposed uranium mine near Dewey SD: Report No. WR28-2-520-128

Thanks!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Thanks so much! I tried to find reports on the USGS website but it looked
like I had to purchase the ones I would have liked, so I really appreciate

you sending this info. Nov 28th works for me. I can come to the KP
office, since there is only 1 of me and many of you with large maps. What
time would work for you all? I can be there around 8:30 to 9:00, I think.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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```

I have it on my calendar! A geologic map of the proposed mine sites and a
couple of cross sections through the ore zones would be helpful. If there
are any domestic wells around the orebodies, a map showing their locations

would be good. Thanks!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
11/20/2007 12:27 PM

      To
      Valois Shea/P2/R8/USEPA/US@EPA
      cc

      Subject
      Meeting Wednesday Dec 28th at 9 am

Hello Valois,
I'd like to confirm the meeting set for Wednesday, December 28th at 9 am
in the Denver Knight Piésold office. I will put together a draft agenda
and participant list as soon as possible. Please let me know if you have
specific material that you would like to see/discuss so that we can
accommodate you as best as possible. My understanding is that much of the
technical information will be presented in the form of a power point
presentation. Please let me know if you want to view paper copies of maps
so that we can make sure they are available.
Thank you,
Patsy

_____

_____
Patsy B. Moran, Ph.D.
Chemist

Knight Piésold and Co.
1580 Lincoln Street, Suite 1000
Denver, CO 80203-1512

Direct Dial: 303 867 2201
Tel: 303 629 8788
Fax: 303 629 8789

P Please consider the environment before printing this e-mail.

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use of the intended recipient(s) and is confidential. If the reader of

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PostedDate:  11/26/2007 09:56:02 AM
Recipients:
<pmoran@knightpiesold.com>,<Daniel.Hoyer@respec.com>,<pbergstrom@knightpiesold.c
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<pbergstrom@knightpiesold.com>
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Thanks for all the information! I look forward to the meeting on
Wednesday.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
11/21/2007 11:16 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc
        "Daniel P. Hoyer" <Daniel.Hoyer@respec.com>, "Paul Bergstrom"
<pbergstrom@knightpiesold.com>
        Subject
        Contact information and draft participant list

Hi Valois,

Tom Brandner is the UIC contact at SD DENR. I believe he is located in the
Pierre office and the main number is (605) 773-3151.

Mike Cepak is the contact for the Large Mine Permit contact at SD DENR and
he can be reached through the same number.

The SD DENR will not be present at the upcoming meeting. A list of the
likely participants follows:

Valois Shea (EPA)
Rich Blubaugh (PowerTech)
Mark Hollenbeck (PowerTech)
Dan Hoyer (Respec)
Paul Bergstrom (Knight Piésold)
Cory Conrad (Knight Piésold)
Patsy Moran (Knight Piésold)

Please let me know if this attendee list isn't consistent with your
understanding.

Dan Hoyer recommended that you contact Mark Anderson at USGS (Rapid City)
regarding the aquifer pump tests and parallel modeling that EPA plans to
do for the Dewey-Burdock site. His email is manders@usgs.gov and phone
number is 605-394-3220. I got this information directly from the internet

so I cannot be certain it is current.

I'm working on a draft agenda and will get it to you as soon as possible.

I hope this proves helpful.

Patsy

_____

_____

Patsy B. Moran, Ph.D.
Chemist

Knight Piésold and Co.
1580 Lincoln Street, Suite 1000
Denver, CO 80203-1512

Direct Dial: 303 867 2201
Tel: 303 629 8788
Fax: 303 629 8789

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Looks fine to me! Could you explain a little more about what "regulatory status" would cover?

I hope to have finished reading the info you sent me by the time we meet. Would it be helpful for me to have contacted the SD people before the meeting?
Thanks!

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
11/26/2007 11:44 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Meeting Agenda

Hi Valois,
Can you please look this agenda over and see if you'd like to add anything? I'd like to send it out to everyone attending later today, if possible.
Thank you,
Patsy

_____

_____
Patsy B. Moran, Ph.D.
Chemist

Knight Piésold and Co.
1580 Lincoln Street, Suite 1000
Denver, CO 80203-1512

Direct Dial: 303 867 2201
Tel: 303 629 8788
Fax: 303 629 8789

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receive this communication in error, please notify the sender by return
e-mail and delete this communication from your system.

ATTACHMENT: UIC Permit Agenda vrs

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Hi Paul, Thanks for setting up something so quickly! But I just spoke
with Kaci Walker from R Squared to confirm a trip that Patsy, Kaci, and I
will take to Cheyenne on December 19 to review files and meet with staff

at WDEQ Land Quality Division. I'll leave it up to Patsy as to which
trip we should do! I do have a meeting I must make on Tuesday morning, so
I wouldn't be able to leave until Tuesday afternoon. Frankly, it would be
easier for me to go after Christmas, giving me time to get my travel
approved & plane ticket purchased, etc. But I don't want to delay the
meeting with USGS just to fit my schedule. Just let me know & I will
submit my travel request. Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Paul Bergstrom" <pbergstrom@knightpiesold.com>
12/04/2007 02:17 PM

        To
        "Patsy Moran" <pmoran@knightpiesold.com>, Valois Shea/P2/R8/USEPA/US@EPA
        cc
        "Daniel P. Hoyer" <Daniel.Hoyer@respec.com>, "Mark Hollenbeck"
<mhollenbeck@powertechuranium.com>
        Subject
        FW: USGS Meeting on Inyan Kara

Hello Patsy and Valois:

Will this schedule work for you? Please let me know ASAP. Thanks. Paul

Paul D. Bergstrom, C.E.P.
Senior Associate
Knight Piésold and Co.
1580 Lincoln Street, Suite 1000   New Address!
Denver, CO 80203-1512
USA
Phone: (303) 629-8788
Direct: (303) 867-2270
Fax: (303) 629-8789
Web Site: http://www.knightpiesold.com
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e-mail and delete this communication from your system.
La información contenida en este mensaje y sus archivos adjuntos es

From: Daniel P. Hoyer [mailto:Daniel.Hoyer@respec.com]
Sent: Tuesday, December 04, 2007 11:57 AM
To: Paul Bergstrom
Cc: mhollenbeck@powertechuranium.com; rblubaugh@powertechuranium.com
Subject: USGS Meeting on Inyan Kara

Mark just confirmed the meeting. His office in Rapid City, 9 am Wednesday December 19. I suggest Valois and Patsy fly in Tuesday morning, make a field visit and plan to fly out Wednesday afternoon after lunch. We could visit the site Wednesday pm if that works better in there schedule.

Dan

Dan Hoyer, Ph.D.,PE
Vice President, RESPEC
3824 Jet Drive
Rapid City, SD 57709-0725
dan.hoyer@respec.com
http://www.respec.com/
Phone
Office:605 394 6512
Fax: 605 394 6456
Cell: 605 381 0043

From: Daniel P. Hoyer
Sent: Monday, December 03, 2007 8:24 AM
To: 'Mark T Anderson'
Cc: 'Mark Hollenbeck'; Paul Bergstrom
Subject: Meeting on Inyan Kara

Mark

I would like to follow up on the idea of coming into your office and discuss the work we are doing on the Dewey Burdock In-Situ Uranium project near Edgemont, SD. As we discussed, RESPEC is responsible for characterizing the aquifer in this area. There was a lot of data from the late 70 and early 80s when TVA was planning a shaft type mine in the resource. The objective of the meeting is to provide information and to solicit wisdom. The proposed agenda is;

§   Introductions
§   Project History
§   Project Description
§   Regulatory Status
§   Regional Geology
§   Groundwater Hydrology
§   Water Use
§   Dewey-Burdock Pump Tests
§   USGS related work

I plan to invite Arden Davis, Larry Steler (they are working with us on this project) Perry Rohn, Valois Shea EPA Region VIII, and a SD DENR representative. I suggest we allow for a 60 minute presentation and another 60 minutes for discussion. I can provide our analysis to date and key literature such as the two USGS studies of the area prior to the meeting.

I am thinking we should schedule this December 18, 19 or 20th.   Would any of those dates work for you?

Dan

Dan Hoyer, Ph.D.,PE
Vice President, RESPEC
3824 Jet Drive
Rapid City, SD 57709-0725
dan.hoyer@respec.com
http://www.respec.com/
Phone
Office:605 394 6512
Fax: 605 394 6456
Cell: 605 381 0043

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PostedDate:   12/04/2007 03:12:23 PM
Recipients:   <pmoran@knightpiesold.com>
MAILOPTIONS:   0
SaveOptions:   1
ldf_createddate:   null
ldf_from:   null
ldf_archive:   null
ldf_temp:   null
From:   CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:   CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:   StdNotesLtr32
useApplet:   True
tmpImp2:
DefaultMailSaveOptions:   1
Query_String:
SentToDocu:   False
SendTo:   "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:   follow-up on your request under the Freedom of Information Act (FOIA)
dated Nov 5
ldf_locale:   en-US
Encrypt:   0
Sign:   0
ReturnReceipt:   0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:   "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$UpdatedBy:   CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
$Revisions:   12/04/2007 03:12:22 PM
$RespondedTo:   2
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Patsy,

I am sending this email as follow-up to your November 16th visit to the
EPA Region 8 office to review files related to Underground Injection
Control Class I and Class III permit applications and aquifer exemptions.
This email also serves as documentation of closure on your FOIA request
dated November 5. Please feel free to contact me if there is any other

information that might be helpful to you.

Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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$AutoSpell:  1
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INetFrom:  Shea.Valois@epamail.epa.gov
PostedDate:  12/07/2007 10:39:28 AM
Recipients:
<pmoran@knightpiesold.com>,<KaciWalker@R2Incorporated.com>,<pbergstom@knightpies
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InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
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PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:  "Kaci Walker"
<KaciWalker@R2Incorporated.com>,pbergstom@knightpiesold.com
BlindCopyTo:
Subject:  RE: Visit to Wyoming DEQ
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Encrypt:  0
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ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
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delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
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<KaciWalker@R2Incorporated.com>,pbergstom@knightpiesold.com
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$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

I think Patsy's task was to call Steve Engle to set up a meeting. I will be glad to do that.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
12/07/2007 09:35 AM

        To
        "Kaci Walker" <KaciWalker@R2Incorporated.com>, Valois
Shea/P2/R8/USEPA/US@EPA
        cc
        <pbergstom@knightpiesold.com>
        Subject
        RE: Visit to Wyoming DEQ

Hi Valois and Kaci,
I cannot remember if I confirmed with you folks about the trip to WDEQ? If possible can you make the arrangements since I'll be in Peru and I'm having spotty email contact? I will be wherever you need me on any day/time. I can drive if needed. Just let me know. I hope I haven't inconvenienced you too much.
Thank you,
Patsy

_____

From: Kaci Walker [mailto:KaciWalker@R2Incorporated.com]
Sent: Mon 12/3/2007 3:55 PM
To: shea.valois@epa.gov; Patsy Moran
Subject: Visit to Wyoming DEQ

Valois,

Patsy Moran and I are trying to line up a trip to WDEQ to view UIC files. We are looking at the week of December 17th. I am available the 17th through the 20th and Patsy is also available then. However, we are targeting the 19th in particular. Is there a day that week that might

work for you?

Also, I am currently compiling the documents you requested from Richard and will have them to you by COB tomorrow (Dec. 4th).

Kaci Walker

Permit Coordinator

R Squared, Inc.

303-832-7664 (office)

303-378-1146 (cell)

$AutoSpell: 1
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Recipients: <pmoran@knightpiesold.com>
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AltCopyTo:
INetBlindCopyTo:
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InheritedAltFrom: "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
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BlindCopyTo:
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Sign: 0
ReturnReceipt: 0
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EnterBlindCopyTo:
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$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

Wed night Jan 9
$70 dollars

505 North Fifth Street, Rapid City

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
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200801101304132-186363 ;   Thu, 10 Jan 2008 13:04:11 -0500
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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: "Daniel P. Hoyer" <Daniel.Hoyer@respec.com>,"Paul Bergstrom"
<pbergstrom@knightpiesold.com>
CopyTo: Valois Shea/P2/R8/USEPA/US@EPA
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INetFrom: .
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$Revisions:
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$MiniView:
$PaperColor: 1

Hi Dan,

Just to confirm, are you going to make the reservations for Paul, Valois
and me in Rapid Citythe night of January 15th?

We appreciate the help!

Patsy

_____
_____

Patsy B. Moran, Ph.D.

Chemist

Knight Piésold and Co.

1580 Lincoln Street, Suite 1000

Denver, CO 80203-1512

Direct Dial: 303 867 2201

Tel: 303 629 8788

Fax: 303 629 8789

P Please consider the environment before printing this e-mail.

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InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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Sign:  0
ReturnReceipt:  0
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delTmpImportance:
delTmpReturnReceipt:
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Here is the list I promised you long ago:

Here is the page I got from the MCL document so you can see how the radon standards are listed:

Here is the whole document:

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

3 ATTACHMENTS: Total Metals.doc, Radionuclides.doc, dwstandards.doc vrs

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Thread_Topic: Still meeting at our office at noon
Thread_Index: AchWw2G716vv/MX5TU2z4805dSTboA==
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SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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26, 2007) at 01/14/2008 10:37:46 AM,MIME-CD by Notes Client on Valois
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Hi Valois,

We are going to head out around noon. I just wanted to let you know that
nothing else is in the works prior so getting here at noon should be
sufficient. I'm going to grab lunch at Heidi's just before and eat it in
the car. Let me know if you want me to pick something up for you.

Thanks!

Patsy

_____

_____

Patsy B. Moran, Ph.D.

Chemist

Knight Piésold and Co.

1580 Lincoln Street, Suite 1000

Denver, CO 80203-1512

Direct Dial: 303 867 2201

Tel: 303 629 8788

Fax: 303 629 8789

P   Please consider the environment before printing this e-mail.

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INetBlindCopyTo:
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InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
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$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

Thanks for keeping me up to date. I brought my lunch but thanks for asking!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
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Hi Valois,

Are you familiar with this letter issued to a UIC permit applicant from the EPA….

http://www.epa.gov/Region8/water/uic/dwletter.pdf

and its contents?

I'm hoping you have a paper or electronic copy of some of the attachments that are referenced but not included. I'm primarily interested in a few specific items from pg 5 of the letter since I believe I have everything else. Specifically:

• UIC Permitting Process Flowchart & "Issuing a UIC Permit"

• Checklist for Administrative Review

• Information to Be Submitted with Application Attachments

• Financial Responsibility (Bonding) Guidance Booklet

• Example Forms for Financial Responsibility Demonstration:

Irrevocable Standby Letter of Credit

Standby Trust Agreement with Schedule "A"

Surety Performance Bond

Trust Agreement with Schedule "B"

Chief Financial Officer's Letter

This document keeps grabbing my attention and I figured it couldn't hurt to ask.

Thanks!

Have a great weekend,

Patsy

_____
_____

Patsy B. Moran, Ph.D.

Chemist

Knight Piésold and Co.

1580 Lincoln Street, Suite 1000

Denver, CO 80203-1512

Direct Dial: 303 867 2201

Tel: 303 629 8788

Fax: 303 629 8789

P Please consider the environment before printing this e-mail.

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Thanks very much for sending this! The visit to the Centennial site was interesting. The geology there is so much simpler than at Dewey Burdock,

so the aquifer test is simpler, too, but interesting to see first hand. I look forward to seeing the Dewey Burdock test in March!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Here is the information that I sent to Kaci about UIC requirements related
to aquifer restoration. I mentioned it while we were driving up to South
Dakota, but couldn't remember the regulation.

_____
Valois Shea
US EPA Region 8

8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741
----- Forwarded by Valois Shea/P2/R8/USEPA/US on 01/18/2008 01:58 PM -----

Valois Shea/P2/R8/USEPA/US
12/11/2007 11:35 AM

        To
        "Kaci Walker" <KaciWalker@R2Incorporated.com>
        cc

        Subject
        Re: Aquifer Exemption Question

I think it might just be an imprecise statement. I think the intent of the
statement is correct - the water quality of the mined zone is exempt from
the protection offered to underground sources of drinking water under the
UIC program up until mining has been completed. Then the authority of
either the NRC, and, in the case of Colorado, the DRMS kicks in requiring
groundwater restoration.

The wording of the UIC regulation that mentions aquifer cleanup under the
closure requirements for Class III wells is not very clear, so it could
easily be misinterpreted by someone who hasn't obsessed about it. The reg
is 40 CFR 146.10 Plugging and Abandonment of Class III wells, (4)" The
Director shall prescribe aquifer cleanup and monitoring where he deems it
necessary and feasible to insure adequate protection of USDWs." The UIC
program has authority to prevent any contaminant with an MCL from moving
beyond aquifer exemption boundary into the un-exempted part of the
aquifer. This means it can require a certain level of restoration within
the aquifer exemption area if it is necessary to prevent any regulated
contaminants from moving out of the exempted area into the un-exempted
part of the aquifer.

I think leaving as early as possible for Cheyenne next Wednesday is a good
idea. Patsy is driving in from Bailey. I'm coming from Lakewood. So if
you would like to choose a spot convenient for you where we can meet and
park, maybe somewhere not far from I-25, I can be there at any time. Do
you need transportation to pick up the rental car?

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Kaci Walker" <KaciWalker@R2Incorporated.com>
12/11/2007 10:29 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Aquifer Exemption Question

Valois,

I am reviewing an NRC workshop on UIC and it mentions several times that
some aquifer exemptions are "temporary and require aquifer restoration."
When is this applicable and where could I find an example?

Also, as to our trip to WDEQ, what time do you think we should leave? I
think the earlier, the better.

Kaci Walker
Permit Coordinator
R Squared, Inc.
303-832-7664 (office)
303-378-1146 (cell)

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Hi Valois,

Thanks for all the documents. I'm looking them over now. I appreciate the help.
Patsy

_____

From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Fri 1/18/2008 1:56 PM
To: Patsy Moran
Subject: Re: Documents that you might have easy access to...

Hi Patsy, That " Dear Applicant" letter is an old letter, so not all the documents are used anymore. I couldn't find the flow chart. It was basically a flowchart drawing of the permitting process described in the Dear Applicant Letter. (It wasn't that great - I thought it complicated things. Maybe that is why is disappeared!)

The one called "Information to be submitted with Application Attachments" was just a reformatted list of attachments with the permit application (pages 3-6 of the 7520-6 pdf)

(See attached file: Admin Review Checklist.pdf)(See attached file: ADMINCHKLST-Class1app.doc)(See attached file: TechReview Checklist.doc) (See attached file: 7520-6.pdf)

Here are all the financial responsibility documents I could find. I included the request form we submit internally the financial responsibility reviewer , so you can see the kinds of things that cause it to be rejected.
(See attached file: UIC Financial Responsibility Review Request.doc)(See attached file: Class II Financial Responsibility documents.pdf)(See attached file: Federal Financial Responsibility for Class II Wells.pdf) (See attached file: Financial Responsibility instrument examples.doc) (See attached file: Standby Trust example.pdf)

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
01/18/2008 11:55   cc
AM
Subject
Documents that you might have
easy access to...

Hi Valois,
Are you familiar with this letter issued to a UIC permit applicant from
the EPA....
http://www.epa.gov/Region8/water/uic/dwletter.pdf
and its contents?
I'm hoping you have a paper or electronic copy of some of the
attachments that are referenced but not included. I'm primarily
interested in a few specific items from pg 5 of the letter since I
believe I have everything else. Specifically:
* UIC Permitting Process Flowchart & "Issuing a UIC Permit"
* Checklist for Administrative Review
* Information to Be Submitted with Application Attachments
* Financial Responsibility (Bonding) Guidance Booklet
* Example Forms for Financial Responsibility Demonstration:
Irrevocable Standby Letter of Credit
Standby Trust Agreement with Schedule "A"
Surety Performance Bond
Trust Agreement with Schedule "B"
Chief Financial Officer's Letter

This document keeps grabbing my attention and I figured it couldn't hurt
to ask.
Thanks!
Have a great weekend,
Patsy

_____

_____
Patsy B. Moran, Ph.D.
Chemist

Knight Piésold and Co.
1580 Lincoln Street, Suite 1000
Denver, CO 80203-1512

Direct Dial: 303 867 2201
Tel: 303 629 8788
Fax: 303 629 8789

P Please consider the environment before printing this e-mail.

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From: NMA Legal 2 [mailto:nmalegal2@nma.org]
Sent: Wednesday, January 02, 2008 7:33 AM
To: Patsy Moran
Subject: 2008 Uranium Recovery Workshop NMAID=107550

SAVE THE DATE

The 2008 NMA/NRC Uranium Recovery Workshop

will be held

April 29-30

at the CurtisHotelin Denver

(Sidebar meetings will be held on April 28 and May 1)

We will forward additional information on hotel reservations and
registration in the near future. In the meantime, if you have suggestions
for speakers or presentations, please contact Katie Sweeney at
ksweeney@nma.org or (202) 463-2627.

To schedule a sidebar meeting, contact Steve Cohen of NRC at SJC7@nrc.gov
or (301) 415-7182.

If you would like to be removed from this e-mail list, please reply with a
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Thread_Index: AchTCsiOu9E46fCqTN+OShVay6h5UgLzkiGQ
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: "Paul Bergstrom" <pbergstrom@knightpiesold.com>
CopyTo: "Cory Conrad" <cconrad@knightpiesold.com>,Valois
Shea/P2/R8/USEPA/US@EPA,"Rachel Sommers" <rsommers@knightpiesold.com>
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$MiniView:
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From: Selkirk,Linda [mailto:lselkirk@learn.colostate.edu]
Sent: Wednesday, January 09, 2008 2:59 PM
To: Patsy Moran
Subject: uranium_020208.pdf

Hello,

Here is all the information you should need in order to register for the Uranium Symposium and Workshop on Feb. 2. Online registration is now available at the website given in the brochure. If you have any question regarding registration, please don't hesitate to contact me.

Thank you.

Linda Selkirk

Academic Officer

Division of Continuing Education

Colorado StateUniversity

1040 Campus Delivery

Fort Collins, CO80523-1040

Phone: 970.491.2527

Fax: 970.491.7886 - uranium_020208.pdf

ATTACHMENT: uranium_020208.pdf vrs

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$AutoSpell:  1
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tmpImp2:
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SentToDocu:  False
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```

Hi Patsy,
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not the Health Physics one. I have been wondering...how is it going with
your new house?
Are you moved in?

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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$MiniView:
$RespondedTo: 1

Hi Valois,
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decided not to buy the one with the structural issues (radon came up
high too). However, we found a really cute but small (1500 sq ft and no
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much, but we're getting it done. Basement living is getting old.

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Currently I'm doing a lot of data table. On Friday I noticed that we are
not doing total metals! I guess this was based on the limited amount of
suspended solids in ground water. We are doing totals on surface water.
What is the consequence of this wrt the UIC permit?
Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, January 28, 2008 8:42 AM
To: Patsy Moran
Subject: Re: FW: uranium_020208.pdf

Hi Patsy,
Thanks for forwarding me the info. I will attend the one in April, but
not the Health Physics one. I have been wondering...how is it going
with your new house?
Are you moved in?

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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```

We don't require the 5 quarters of background data, so total metals results from the next groundwater sampling event would cover it.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
01/28/2008 08:59 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        RE: FW: uranium_020208.pdf

Hi Valois,
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high too). However, we found a really cute but small (1500 sq ft and no
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Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, January 28, 2008 8:42 AM
To: Patsy Moran
Subject: Re: FW: uranium_020208.pdf

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Are you moved in?

_____
Valois Shea
US EPA Region 8

8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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$MiniView:

Hi Valois,
For my clarity...
EPA only requires a single quarter of background ground water monitoring
or several rounds?

After re-reading your comments about EPA authority over restoration I'm
worried I don't have a solid grasp of the EPA requirements for
restoration. I'm told we are following NUREG 1569 and USNRC Reg guide
4.14 but could we be missing something? Does EPA have any guidance
beyond what we have already discussed?

Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, January 28, 2008 9:39 AM
To: Patsy Moran
Subject: RE: FW: uranium_020208.pdf

We don't require the 5 quarters of background data, so total metals
results from the next groundwater sampling event would cover it.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
01/28/2008 08:59   cc
AM
Subject
RE: FW: uranium_020208.pdf

Hi Valois,
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-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, January 28, 2008 8:42 AM
To: Patsy Moran
Subject: Re: FW: uranium_020208.pdf

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phone: 303-312-6276
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Hi Valois,

I keep forgetting to ask you about the Region 6 UIC information you
obtained from your colleague. Is it ready for public consumption?

Thanks!

Patsy

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I forgot to say that I will review the DQOs in our regional & program
QAPPs & get back to you.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
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INetFrom: .
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Hi Valois,
I'm glad the input was useful.
Folks have been asking about the Moore Ranch Large Mine Permit. Can you
still check into this? I'd primarily like to know if it is hugely in
error or if it has minor problems.
Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Wednesday, January 30, 2008 4:14 PM
To: Patsy Moran
Subject: QAPP

I forgot to say that I will review the DQOs in our regional & program
QAPPs & get back to you.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
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2008013115585290-2682231 ;   Thu, 31 Jan 2008 15:58:52 -0500
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Hi Valois,

This could be an interesting collaboration opportunity (see below). I
forwarded it to the client but they have a lot on their plate. I'm not
sure if anything will pan out. I wonder if EPA Region 8 could find any way
to collaborate with Jim. Regardless, he is a great resource for us all.

Thanks,

Patsy

From: James A Davis [mailto:jadavis@usgs.gov]
Sent: Wednesday, January 30, 2008 11:08 AM
To: Patsy Moran
Subject: ISL uranium

Hey Patsy,
How are you?

I am trying to get some funding from the Nuclear Regulatory Commission to
study biogeochemistry of ISL mine systems before, during, and after
bioremediation is used as a groundwater remediation strategy. Are you
aware of any specific companies that might welcome USGS working with them
to study what happens during bioremediation?

Jim

Dr. James A. Davis
U. S.Geological Survey
Mail Stop 465
345 Middlefield Rd.
Menlo Park, CA 94025
tel: 650-329-4484
fax: 650-329-4545
email: jadavis@usgs.gov

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Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:24
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Hi Valois,

The NRC has a fairly defined approach (NUREG 1569) to setting restoration standards at ISR sites. For example,

(a) Primary Restoration Standards—The primary goal of a restoration program is to return the water quality within the exploited production zone and any affected aquifers to pre-operational (baseline) water quality conditions.

(b) Secondary Restoration Standards—In situ leach operations may cause permanent changes in water quality within the exploited production zone, because the in situ leach extraction process relies on changing the chemistry in the production zone to remove the uranium. The applicant may therefore propose returning the water quality to its pre-operational class of use (e.g., drinking water, livestock, agricultural, or limited use) as a secondary restoration standard.

Does EPA have a similar approach? In my searches I have not been able to find significant guidance material related to this subject. It would be a huge help if I could better understand the approach EPA will take with regard to restoration standards.

Thanks!

Patsy

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Recipients: <pmoran@knightpiesold.com>
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InheritedReplyTo:
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The regulation that gives us the very nebulous authority over restoration
is 40 CFR 146.10 (a)(4)

(4) The plugging and abandonment plan required in 40 CFR 144.51(o) and 144.52(a)(6) shall, in the case of a Class III project which underlies or is in an aquifer which has been exempted under §146.04, also demonstrate adequate protection of USDWs. The Director shall prescribe aquifer cleanup and monitoring where he deems it necessary and feasible to insure adequate protection of USDWs.

I take this to mean that the permit will require restoration inside the aquifer exemption boundary to the point that no regulated contaminants are moving outside the aquifer exemption boundary into the unexempted USDW. The regulated contaminants in this case would be the list of Total Metals I sent you.

This brings us to a related subject of importance.

We had a meeting with WY DEQ Land Quality Division about their regulation covering the aquifer exemption boundary. We came to the conclusion that we will accept the boundary proposed in the permit application if it is supported with enough information to justify its location. Steve Pratt, my supervisor, stated that his interpretation of the "commercially producible" criteria means establishing a boundary for the aquifer exemption area where the commercially producible ore zone can be mined to the fullest extent and restored without having any contamination passing out of the aquifer exemption boundary into the unexempted USDW.

I do have to tell you that to our shock & horror we found that our regulation 144.12 (b) states

(b) For Class I, II and III wells, if any water quality monitoring of an underground source of drinking water indicates the movement of any contaminant into the underground source of drinking water, except as authorized under part 146, the Director shall prescribe such additional requirements for construction, corrective action, operation, monitoring, or reporting (including closure of the injection well) as are necessary to prevent such movement. In the case of wells authorized by permit, these additional requirements shall be imposed by modifying the permit in accordance with §144.39, or the permit may be terminated under §144.40 if cause exists, or appropriate enforcement action may be taken if the permit has been violated. For EPA administered programs, such enforcement action shall be taken in accordance with appropriate sections of the SDWA.
The definition of contaminant is very broad: Contaminant means any physical, chemical, biological, or radiological substance or matter in water.
It does not seem to be restricted to just regulated contaminants. So this has very big implications for where to establish the proposed aquifer exemption boundary. We should have a big meeting to discuss what this means.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
01/31/2008 03:56 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        NRC Restoration

Hi Valois,
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standards at ISR sites. For example,

(a) Primary Restoration Standards—The primary goal of a restoration
program is to return the water quality within the exploited production
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conditions.
(b) Secondary Restoration Standards—In situ leach operations may cause
permanent changes in water quality within the exploited production zone,
because the in situ leach extraction process relies on changing the
chemistry in the production zone to remove the uranium. The applicant may
therefore propose returning the water quality to its pre-operational class
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find significant guidance material related to this subject. It would be a
huge help if I could better understand the approach EPA will take with
regard to restoration standards.
Thanks!
Patsy

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```

I talked to Carol Bilbrough during the WY DEQ LQD meeting I mentioned in
my previous email & she said that she would have a copy of the WY comments
on the application sent to me. I will share them with you & Kaci.

It is usually an iterative process where the permit applicant responds to the WY DEQ LQD comments by fixing the problems or providing justification for why they do not believe they need to address a particular comment. This goes back & forth until they reach a compromise that they each can live with.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
01/30/2008 04:33 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        RE: QAPP

Hi Valois,
I'm glad the input was useful.
Folks have been asking about the Moore Ranch Large Mine Permit. Can you still check into this? I'd primarily like to know if it is hugely in error or if it has minor problems.
Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Wednesday, January 30, 2008 4:14 PM
To: Patsy Moran
Subject: QAPP

I forgot to say that I will review the DQOs in our regional & program QAPPs & get back to you.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276

fax: 303-312-6741

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$MiniView:

Hi Valois,
Yes... this is useful and it sounds like we should talk soon. I will
forward your email to Paul and Cory and get their take on this as well.

My original concern was how EPA will deal with constituents that are
already above the MCL, HA, or Region 8 permit limits (baseline Radium for
example) when it comes time for restoration. Will ACLs be used? If a
constituent is below the MCL now but is slightly elevated as a result of
the oxidation of the ore body, will the company be held to MCLs as a clean
up standard?

I'll read the email again and make sure I absorb it. I'll probably have a
few more questions.

Thank you for all the help!
Have a great weekend,
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 01, 2008 2:26 PM
To: Patsy Moran
Subject: Re: NRC Restoration

The regulation that gives us the very nebulous authority over
restoration is 40 CFR 146.10 (a)(4)

(4) The plugging and abandonment plan required in 40 CFR 144.51(o) and
144.52(a)(6) shall, in the case of a Class III project which underlies
or is in an aquifer which has been exempted under §146.04, also
demonstrate adequate protection of USDWs. The Director shall prescribe
aquifer cleanup and monitoring where he deems it necessary and feasible
to insure adequate protection of USDWs.

I take this to mean that the permit will require restoration inside the
aquifer exemption boundary to the point that no regulated contaminants
are moving outside the aquifer exemption boundary into the unexempted
USDW. The regulated contaminants in this case would be the list of
Total Metals I sent you.

This brings us to a related subject of importance.

We had a meeting with WY DEQ Land Quality Division about their
regulation covering the aquifer exemption boundary. We came to the
conclusion that we will accept the boundary proposed in the permit
application if it is supported with enough information to justify its
location. Steve Pratt, my supervisor, stated that his interpretation of
the "commercially producible" criteria means establishing a boundary for
the aquifer exemption area where the commercially producible ore zone
can be mined to the fullest extent and restored without having any
contamination passing out of the aquifer exemption boundary into the
unexempted USDW.

I do have to tell you that to our shock & horror we found that our

regulation 144.12 (b) states

(b) For Class I, II and III wells, if any water quality monitoring of an underground source of drinking water indicates the movement of any contaminant into the underground source of drinking water, except as authorized under part 146, the Director shall prescribe such additional requirements for construction, corrective action, operation, monitoring, or reporting (including closure of the injection well) as are necessary to prevent such movement. In the case of wells authorized by permit, these additional requirements shall be imposed by modifying the permit in accordance with §144.39, or the permit may be terminated under §144.40 if cause exists, or appropriate enforcement action may be taken if the permit has been violated. For EPA administered programs, such enforcement action shall be taken in accordance with appropriate sections of the SDWA.

The definition of contaminant is very broad: Contaminant means any physical, chemical, biological, or radiological substance or matter in water.

It does not seem to be restricted to just regulated contaminants. So this has very big implications for where to establish the proposed aquifer exemption boundary. We should have a big meeting to discuss what this means.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
01/31/2008 03:56   cc
PM
                                                  Subject
NRC Restoration

Hi Valois,
The NRC has a fairly defined approach (NUREG 1569) to setting
restoration standards at ISR sites. For example,

(a) Primary Restoration Standards-The primary goal of a restoration
program is to return the water quality within the exploited production
zone and any affected aquifers to pre-operational (baseline) water
quality conditions.
(b) Secondary Restoration Standards-In situ leach operations may cause
permanent changes in water quality within the exploited production zone,
because the in situ leach extraction process relies on changing the
chemistry in the production zone to remove the uranium. The applicant
may therefore propose returning the water quality to its pre-operational
class of use (e.g., drinking water, livestock, agricultural, or limited
use) as a secondary restoration standard.

Does EPA have a similar approach? In my searches I have not been able to
find significant guidance material related to this subject. It would be
a huge help if I could better understand the approach EPA will take with
regard to restoration standards.
Thanks!
Patsy

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Hi Valois,
This topic came up in conversation at the Uranium Symposium. I forwarded
your comments below to Powertech since it sounded like you would be
discussing this topic on Wednesday.
Hope you are doing well.
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 01, 2008 2:26 PM
To: Patsy Moran
Subject: Re: NRC Restoration

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or reporting (including closure of the injection well) as are necessary
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_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
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"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
01/31/2008 03:56   cc
PM
Subject
NRC Restoration

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Thanks!
Patsy

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Hi Valois,

From talking to Paul the intent is to have the pump test in March.
However, the date is still not firm. As soon as I know the exact schedule
I'll let you know. We'll have some documentation on the pump test in the
near future.

We do not have a map copier here but we can have full size copies made.
How many are there? Perhaps you can bring them Thursday morning?

Thanks!

Patsy

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      for <Shea.Valois@epamail.epa.gov>; Mon, 18 Feb 2008 18:28:21 -0500 (EST)
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: Thursday morning meeting problem
PostedDate: 02/18/2008 04:28:16 PM
$MessageID: <9544D5A542136C49ACC1C118202AAA550DD5A8@DVEX1.knightpiesold.local>
In_Reply_To: <OF67C25859.04296C02-ON872573E2.007686AE-
872573E2.0076EF08@epamail.epa.gov>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Thursday morning meeting problem
Thread_Index: AchlGxIJ0dmWWV3aRamBtM1btqzVggNaohuQ
References: <9544D5A542136C49ACC1C118202AAA5506BBF4@DVEX1.knightpiesold.local>
<OF67C25859.04296C02-ON872573E2.007686AE-872573E2.0076EF08@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.2.18.151252
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='BODY_SIZE_200_299 0, __CT
0, __CTE 0, __CT_TEXT_PLAIN 0, __HAS_MSGID 0, __IMS_MSGID 0, __MIME_TEXT_ONLY 0,
__MIME_VERSION 0, __SANE_MSGID 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 7.0.3│September
26, 2007) at 02/18/2008 06:28:23 PM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3│September 26, 2007) at 03/23/2009 08:42:24
AM,MIME-CD complete at 03/23/2009 08:42:24 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 02/18/2008 04:28:23 PM-02/18/2008 04:28:25 PM,02/18/2008 04:28:25
PM-02/18/2008 04:28:27 PM
$Orig: B6C526E7781FD92B852573F30080F14A
RoutingState:
$UpdatedBy: ,CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
Categories:
$Revisions: 02/18/2008 04:28:26 PM
DeliveredDate: 02/18/2008 04:28:27 PM
$MiniView:
$RespondedTo: 1

Hi Valois,
I have a conflict on Thursday morning and I'm hoping we can make an
adjustment. I'm sorry; my boss scheduled a multiple person meeting right
on top of ours (he forgot). Any chance we can change to the afternoon?
If not, I'll see what I can do.
Thanks,
Patsy

```
$AutoSpell:  1
OriginalModTime:  02/19/2008 01:25:56 PM
In_Reply_To:  <9544D5A542136C49ACC1C118202AAA550DD5A8@DVEX1.knightpiesold.local>
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$MessageID:  <OFD0A3CE46.6D03DDE2-ON872573F4.00703288-
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INetFrom:  Shea.Valois@epamail.epa.gov
PostedDate:  02/19/2008 01:25:58 PM
Recipients:  <pmoran@knightpiesold.com>
MAILOPTIONS:  0
SaveOptions:  1
ldf_createddate:  null
ldf_from:  null
ldf_archive:  null
ldf_temp:  null
$AltNameLanguageTags:
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$StorageTo:  .
$StorageBcc:
INetCopyTo:
INetSendTo:  .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:  StdNotesLtr32
tmpImp2:
DefaultMailSaveOptions:  1
Query_String:
PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:  Re: Thursday morning meeting problem
ldf_locale:  en-US
Encrypt:  0
Sign:  0
ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo:  B6C526E7781FD92B852573F30080F14A
$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

afternoon is fine. Would about 1:00 work?

_____

Valois Shea

US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
02/18/2008 04:28 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Thursday morning meeting problem

Hi Valois,
I have a conflict on Thursday morning and I'm hoping we can make an
adjustment. I'm sorry; my boss scheduled a multiple person meeting right
on top of ours (he forgot). Any chance we can change to the afternoon?
If not, I'll see what I can do.
Thanks,
Patsy

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
2008021915285414-5102947 ;   Tue, 19 Feb 2008 15:28:54 -0500
Received: by mintra02.rtp.epa.gov (Postfix)   id 30B574435D; Tue, 19 Feb 2008
15:28:54 -0500 (EST)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
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Received: from mseive02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
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<Shea.Valois@epamail.epa.gov>; Tue, 19 Feb 2008 15:28:54 -0500 (EST)
Received: from dvmail.knightpiesold.com (dvmail.knightpiesold.com
[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id 916AC5D401F
      for <Shea.Valois@epamail.epa.gov>; Tue, 19 Feb 2008 15:28:53 -0500 (EST)
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MIME_Version: 1.0
Subject: RE: Thursday morning meeting problem
PostedDate: 02/19/2008 01:28:51 PM
$MessageID: <9544D5A542136C49ACC1C118202AAA550DD644@DVEX1.knightpiesold.local>
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872573F4.00703DB9@epamail.epa.gov>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Thursday morning meeting problem
Thread_Index: AchzNXO45UcsyMj7RAiYtF38MkZPTgAAE9Kg
References: <9544D5A542136C49ACC1C118202AAA550DD5A8@DVEX1.knightpiesold.local>
<OFD0A3CE46.6D03DDE2-ON872573F4.00703288-872573F4.00703DB9@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.2.19.121459
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='__C230066_P5 0, __CT 0,
__CTE 0, __CT_TEXT_PLAIN 0, __FRAUD_419_CONTACT_NUM 0, __HAS_MSGID 0,
__IMS_MSGID 0, __MIME_TEXT_ONLY 0, __MIME_VERSION 0, __SANE_MSGID 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 7.0.3|September
26, 2007) at 02/19/2008 03:28:54 PM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:24
AM,MIME-CD complete at 03/23/2009 08:42:24 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 02/19/2008 01:28:54 PM-02/19/2008 01:28:55 PM,02/19/2008 01:28:55
PM-02/19/2008 01:28:56 PM
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Categories:
$Revisions: 02/19/2008 01:28:55 PM
DeliveredDate: 02/19/2008 01:28:56 PM
$MiniView:
$RespondedTo: 1

Hi Valois,
That sounds perfect. Thanks! I assume you will be coming here? If not,
I'm fine heading over your direction.
Hope you are doing well,
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, February 19, 2008 1:26 PM
To: Patsy Moran
Subject: Re: Thursday morning meeting problem

afternoon is fine.   Would about 1:00 work?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
02/18/2008 04:28   cc
PM
Subject
Thursday morning meeting problem

Hi Valois,
I have a conflict on Thursday morning and I'm hoping we can make an
adjustment. I'm sorry; my boss scheduled a multiple person meeting right
on top of ours (he forgot). Any chance we can change to the afternoon?
If not, I'll see what I can do.
Thanks,
Patsy

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$Mailer:  Lotus Notes Release 6.5.4 March 27, 2005
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PostedDate:  02/22/2008 09:55:20 AM
Recipients:  <pmoran@knightpiesold.com>
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ldf_temp:  null
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INetCopyTo:
INetSendTo:  .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:  StdNotesLtr32
useApplet:  True
tmpImp2:
DefaultMailSaveOptions:  1
Query_String:
PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:  SD in-situ mining regs
ldf_locale:  en-US
Encrypt:  0
Sign:  0
ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
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EnterBlindCopyTo:
$RFSaveInfo: EF749AB0582F457C852573F400708266
$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

Hi Patsy, I created the attached file comparing the SD in-situ mining
regs with the in-situ water quality regs. There are some differences with
monitoring frequency that I highlighted. For the other 2 (restoration &
excursions), EPA has no corresponding regs, but I just wanted to check out
the requirements.

These files are application requirements from the ISL mining regs. I
highlighted the ones that I would like to see in the EPA UIC permit
application. I figured since you (or someone else?) are already preparing
them for the large mine permit, maybe I could get that info, too.

I will email you the side by side comparison of SD mining & WQ regs
compared with EPA regs when I get that finished up.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

```
$AutoSpell:  1
$FILE:
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$Mailer:  Lotus Notes Release 6.5.4 March 27, 2005
$MessageID:  <OF7070A20F.8933D31A-ON872573F7.005D5279-
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INetFrom:  Shea.Valois@epamail.epa.gov
PostedDate:  02/22/2008 10:01:32 AM
Recipients:  <pmoran@knightpiesold.com>
MAILOPTIONS:  0
SaveOptions:  1
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ldf_temp:  null
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$StorageCc:
$StorageTo:  .
$StorageBcc:
INetCopyTo:
INetSendTo:  .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:  StdNotesLtr32
useApplet:  True
tmpImp2:
DefaultMailSaveOptions:  1
Query_String:
PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:  copy of the SD In-Situ mining regs
ldf_locale:  en-US
Encrypt:  0
Sign:  0
ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo:  EF749AB0582F457C852573F400708266
$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

It occurred to me that you might not have a copy of the mining regs:

This copy you can click on the blue links to see the references regs.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

ATTACHMENT: linked SD ISL mining regs.doc vrs

$AutoSpell: 1
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PostedDate: 02/22/2008 10:23:51 AM
Recipients: <pmoran@knightpiesold.com>
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SaveOptions: 1
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ldf_from: null
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$AltNameLanguageTags:
$StorageCc:
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$StorageBcc:
INetCopyTo:
INetSendTo: .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom: "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom: "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo: StdNotesLtr32
useApplet: True
tmpImp2:
DefaultMailSaveOptions: 1
Query_String:
PRINCIPAL: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu: False
SendTo: "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject: link to SD rules
ldf_locale: en-US
Encrypt: 0
Sign: 0
ReturnReceipt: 0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo: "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo: EF749AB0582F457C852573F400708266
$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

Hi again. I found this website to help locate the many rule references
imbedded in the regs:

http://legis.state.sd.us/rules/

Once you bring up the first rule, you can just edit the end of the URL line & type in the next rule you want to see.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
2008022214034849-5603816 ;   Fri, 22 Feb 2008 14:03:48 -0500
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14:03:48 -0500 (EST)
Delivered_to: shea.valois@epamail.epa.gov
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<Shea.Valois@epamail.epa.gov>; Fri, 22 Feb 2008 14:03:48 -0500 (EST)
Received: from dvmail.knightpiesold.com (dvmail.knightpiesold.com
[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id E4E195D4026
       for <Shea.Valois@epamail.epa.gov>; Fri, 22 Feb 2008 14:03:47 -0500 (EST)
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X_MIMEOLE: Produced By Microsoft Exchange V6.5
PostedDate: 02/22/2008 12:03:45 PM
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X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: SD in-situ mining regs
Thread_Index: Ach1dCBc0zFEftVNReWkeG1J0eA0CQAEXQYQ
References: <9544D5A542136C49ACC1C118202AAA550DD644@DVEX1.knightpiesold.local>
<OF3D46CDBA.948516E7-ON872573F7.005A0861-872573F7.005CF4B0@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.2.22.104947
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='__C230066_P5 0, __CT 0,
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__IMS_MSGID 0, __MIME_TEXT_ONLY 0, __MIME_VERSION 0, __SANE_MSGID 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 7.0.3|September
26, 2007) at 02/22/2008 02:03:48 PM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:24
AM,MIME-CD complete at 03/23/2009 08:42:24 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
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Categories:
$Revisions: 02/22/2008 12:03:50 PM
DeliveredDate: 02/22/2008 12:03:50 PM
$MiniView:
$RespondedTo: 1

WOW! Valois, this is awesome. I had no idea what you were doing. Thank you so much! See you in an hour, here?
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 22, 2008 9:55 AM
To: Patsy Moran
Subject: SD in-situ mining regs

Hi Patsy, I created the attached file comparing the SD in-situ mining regs with the in-situ water quality regs. There are some differences with monitoring frequency that I highlighted. For the other 2 (restoration & excursions), EPA has no corresponding regs, but I just wanted to check out the requirements.
(See attached file: Comparison of Restoration requirements.doc)(See attached file: Comparison of Monitoring requirements.doc)(See attached file: Comparison of Excursion Regs.doc)
These files are application requirements from the ISL mining regs. I highlighted the ones that I would like to see in the EPA UIC permit application. I figured since you (or someone else?) are already preparing them for the large mine permit, maybe I could get that info, too.
(See attached file: Application content requirements Reclamation plan.doc)(See attached file: Application content requirements additional baseline.doc)(See attached file: Application content requirements Mine operations plan.doc)
I will email you the side by side comparison of SD mining & WQ regs compared with EPA regs when I get that finished up.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

6 ATTACHMENTS: 1) Comparison of Restoration requirements.doc
2) Comparison of Monitoring requirements.doc
3) Comparison of Excursion Regs.doc
4) Application content requirements Reclamation plan.doc
5) Application content requirements additional baseline.doc
6) Application content requirements Mine operations plan.doc
vrs

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InheritedFromDomain:
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ReturnReceipt: 0
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other related SD regs

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
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phone: 303-312-6276
fax: 303-312-6741

3 ATTACHMENTS:
1) Plugging Requirements.doc
2) 74 29 11 02 refs.doc
3) 74 29 11 03 1 refs.doc
vrs

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_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

ATTACHMENT: 29 well construction.doc vrs

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From: "Patsy Moran" <pmoran@knightpiesold.com>
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$MiniView:

$RespondedTo: 1

Hi Valois,
I cannot find the SD UIC regs (74:55 etc) that you put together. Can you
resend those regs? It would be a huge help.

Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 22, 2008 12:46 PM
To: Patsy Moran
Subject: well construction requirements

(See attached file: 29 well construction.doc)
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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```

Actually I was going to send you all this anyway - the SD regs had been
revised & I did not have the latest version. These all have the latest
version of the regs:

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
03/04/2008 10:17 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        RE: well construction requirements

Hi Valois,
I cannot find the SD UIC regs (74:55 etc) that you put together. Can you
resend those regs? It would be a huge help.

Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 22, 2008 12:46 PM
To: Patsy Moran
Subject: well construction requirements

(See attached file: 29 well construction.doc)
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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SMTPOriginator: pmoran@knightpiesold.com
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Hi Valois,
Did you read my mind?
Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, March 04, 2008 12:19 PM
To: Patsy Moran
Subject: RE: well construction requirements

Actually I was going to send you all this anyway - the SD regs had been
revised & I did not have the latest version. These all have the latest
version of the regs:

(See attached file: 55 SD ISL WQ rules working copy.doc)(See attached
file: 40 CFR side by side.doc)(See attached file: Comparing 55 and
29.doc)(See attached file: Comparison of Info Required in Permit
App.doc)
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
03/04/2008 10:17   cc
AM
Subject
RE: well construction
requirements

Hi Valois,
I cannot find the SD UIC regs (74:55 etc) that you put together. Can you
resend those regs? It would be a huge help.

Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, February 22, 2008 12:46 PM
To: Patsy Moran
Subject: well construction requirements

(See attached file: 29 well construction.doc)
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

4 ATTACHEMENTS:
1) 55 SD ISL WQ rules working copy.doc
2) 40 CFR side by side.doc
3) Comparing 55 and 29.doc
4) Comparison of Info Required in Permit App.doc
vrs

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
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$Revisions:
DeliveredDate: 03/12/2008 08:51:42 AM
$MiniView:

Hi Valois,
I just found out that there is a meeting regarding the UIC regulations
happening today in Pierre, SD. I'm assuming it is for the WQ regs. Can
you briefly remind me of the key inconsistencies you found in the mining
and WQ UIC and EPA regs? I believe the two main differences are the
location of the monitoring wells relative to the ore body and the
concern that the "pilot" study required by SD will need a UIC permit
before any injection can take place.
I'll work on answering this question myself now.
Thanks!
Pasy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, February 19, 2008 1:26 PM
To: Patsy Moran
Subject: Re: Thursday morning meeting problem

afternoon is fine. Would about 1:00 work?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpi esold.com>		To
		Valois Shea/P2/R8/USEPA/US@EPA
02/18/2008 04:28 PM		cc
		Subject
		Thursday morning meeting problem

Hi Valois,
I have a conflict on Thursday morning and I'm hoping we can make an
adjustment. I'm sorry; my boss scheduled a multiple person meeting right
on top of ours (he forgot). Any chance we can change to the afternoon?
If not, I'll see what I can do.
Thanks,
Patsy

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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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Categories:
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DeliveredDate: 03/12/2008 08:59:30 AM
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Hi Valois,
As I dig in more I realize that you already did the work for me. Sorry
to bug you. I'm summarizing the key differences now. Did you get a
chance to talk with SD about these inconsistencies?
Thanks!
Patsy

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id 2008031212301135-1426894 ;   Wed, 12 Mar 2008 12:30:11 -0400
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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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Hi Valois,

The working copy of the SD water quality regs shows that
74:55:01:45-Restoration demonstration required was repealed. However, the
rules on the SD legislative site do not show this to be the case. It might
help to know where you obtained the information from 55 SD ISL WQ rules
working copy.doc. I'm also having trouble finding the information we
discussed about monitoring within 50 feet of the ore body, do you remember
this section and where it is located?

I appreciate your help.

Thanks!

Patsy

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Recipients:  <pmoran@knightpiesold.com>
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Logo:  StdNotesLtr32
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DefaultMailSaveOptions:  1
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CopyTo:
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Hi Patsy, The link below is where I found the new version of the water quality regs. They are more consistent with the mining regs, so that should make life easier!
"74:55:01:42. Nonproduction zone monitoring" is where the 50 feet was included, but it got taken out & made to match 74:29:11:32 of the mining regs.

I had a conference call last week with Gary Haag and Tom Brandner of the DENR water quality group about these new regs. They will coordinate a

meeting with the mining folks (Mike Cepak) and me, so we can all site down
in one place & talk about our permit requirements to try to make our
requirements consistent with each other as much a possible and minimize
things you will have to do different for each of us. That may not happen
until May, which is kind of late in your time frame. But I will let you
know as I find out more.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741
----- Forwarded by Valois Shea/P2/R8/USEPA/US on 03/13/2008 09:20 AM -----

<Gary.Haag@state.sd.us>
02/28/2008 05:24 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        RE: comments and questions about the UIC Class III regs

Valois:

After reading your comments I am a little concerned that you were not
looking at a copy of the revised rules.
The revised rules are at the website listed below at the bottom of the
page where is says new:

http://www.state.sd.us/denr/DES/Ground/groundprg.htm

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, February 26, 2008 4:55 PM
To: Haag, Gary
Subject: RE: comments and questions about the UIC Class III regs

Great! Thanks very much. My home phone number is 303-232-2329.
_____ Valois Shea US EPA Region 8 8P-W-GW 1595
Wynkoop Street Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

<Gary.Haag@state.sd.us>		
		To
02/26/2008 03:13 PM	Valois Shea/P2/R8/USEPA/US@EPA	
		cc
	<Tom.Brandner@state.sd.us>	
		Subject
	RE: comments and questions about the UIC Class III regs	

Valois:

How about if we call you at 1:30 central time.

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, February 26, 2008 2:21 PM
To: Haag, Gary
Subject: RE: comments and questions about the UIC Class III regs

That would be great. I usually work at home on Wednesdays, so that would
be a good day. Anytime during the time frame you suggested would work for
me. Would you call me, or should I call you? Thanks!
_____ Valois Shea US EPA Region 8 8P-W-GW 1595
Wynkoop Street Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

```
                  <Gary.Haag@state
                  .sd.us>
                                                                    To
                  02/26/2008 01:02        Valois Shea/P2/R8/USEPA/US@EPA
                  PM                                                  cc
                                          <Tom.Brandner@state.sd.us>,
                                          <Gary.Haag@state.sd.us>
                                                              Subject
                                          RE: comments and questions about
                                          the UIC Class III regs
```

Valois:

Would you have some time on Wednesday March 5 to discuss your comments
with Tom Brandner and I.

Between 1:00 and 4:00 pm central time would be best for us.

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, February 26, 2008 11:40 AM
To: Brandner, Tom; Haag, Gary
Subject: comments and questions about the UIC Class III regs

   (See attached file: Comments and Questions.doc)
                      Comments and Questions on
           CHAPTER 74:55:01 UNDERGROUND INJECTION CONTROL
                          CLASS III WELLS

   The 74:55:01 regulations include more specific information than the
   federal regulations. This specificity is going to be more helpful to
   permit applicants than the federal regulations for determining what
   to put into a permit application. The federal regulations are more

general because they set minimum standards for all possible state
programs under Section 1422 of the Safe Drinking Water Act, plus they
need to be applicable to the whole US. The level of specific detail
in the 74:55:01 and 74:29:11 regulations, together with the other
74:29 regulations and the imbedded references to other South Dakota
regulations such as 74:02:04, will also be very helpful in designing
a federal UIC permit that will mesh well with the South Dakota UIC
permit.

Only 2 comments that might lead to changes:
It would be good to include a requirement equivalent to
146.34   Information to be considered by the Director.
 a) Prior to the issuance of a permit
(14) Contingency plans to cope with all shut-ins or well failures so
as to prevent the migration of contaminating fluids into underground
sources of drinking water;

74:55:01:46. Minimum monitoring requirements. Monitoring requirements
shall include, but not be limited to, the following:
(2) Installation and use of continuous recording devices to monitor
the injection pressure, flow rate, volume, and annular pressure;

I am not sure that monitoring of annular pressure is appropriate for
Class III wells. I have not seen a design for a Class III well that
has an open annulus filled with fluid that must be pressurized.

Questions:
There are some inconsistencies between monitoring requirements in the
74:29:11 regs and the 74:55:01 regs. Will the more protective
74:55:01 regs have precedent over the 74:29:11 regs?

The regulations for monitoring requirements are both as protective as
the equivalent federal regs except for
74:29:11:30. Production area operational monitoring requirements. (4)
Monitoring ground water quality, including the control parameters,
and fluid levels in monitoring wells completed above and below the
production zone a minimum of every month;

But the equivalent 74:55:01 reg has a 2 week interval: 74:55:01:46.
Minimum monitoring requirements. (4) Monitoring once every two weeks
of wells completed above or below the injection zone;

[The equivalent federal reg is
40 CFR 146. 146.33 Operating, monitoring, and reporting requirements.
 (b) Monitoring requirements.
(4) Monitoring of the parameters chosen to measure water quality in
the monitoring wells required by §146.32(e)[into and above injection
zone], semi-monthly.]

There is another inconsistency between

74:55:01:42. Nonproduction zone monitoring These monitor wells shall
be located not more than 50 feet on either side of a line through the
center of the production area,

74:29:11:32. Nonproduction zone monitoring. These monitor wells
shall be located within the production area and up to 200 feet

outside of the production area.

74:55:01:45. Restoration demonstration required

The demonstration of restoration regulation was really intriguing.

The first part:

74:55:01:45. Restoration demonstration required. The secretary shall
do a preliminary review of the permit application and technical
report after submission by the applicant. After the review the
secretary shall determine if mining appears feasible or infeasible

nicely addresses the requirement for "analysis of the amenability of
the mining zone to the proposed mining method" in 144.7
Identification of underground sources of drinking water and exempted
aquifers.
(c)(1).

[That whole regulation is

144.7   Identification of underground sources of drinking water and
exempted aquifers.
(c)(1) For Class III wells, the Director shall require an applicant
for a permit which necessitates an aquifer exemption under
§146.04(b)(1) to furnish the data necessary to demonstrate that the
aquifer is expected to be mineral or hydrocarbon producing.
Information contained in the mining plan for the proposed project,
such as a map and general description of the mining zone, general
information on the mineralogy and geochemistry of the mining zone,
analysis of the amenability of the mining zone to the proposed mining
method, and a time-table of planned development of the mining zone
shall be considered by the Director in addition to the information
required by §144.31(g).]

First the mining zone is determined to be amenable and mining appears
to be feasible based on the data review. The follow up steps for EPA
would be to issue the aquifer exemption and draft permit. After
public hearing and public comment period, issue the final permit.
Then well construction and testing would begin, and the information
submitted to EPA to obtain the Authorization to Inject.

Let's talk about how this process would fit with the restoration
demonstration procedures.

Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

Hi it's me again. I meant to ask you if you had heard anything about the
aquifer test. Gary Haag copied me on the reply below from Mike Cepak of
the mining group, who thinks it will be in a few months. Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

phone: 303-312-6276
fax: 303-312-6741
----- Forwarded by Valois Shea/P2/R8/USEPA/US on 03/13/2008 09:31 AM -----

<Gary.Haag@state.sd.us>
03/12/2008 06:59 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        FW: Powertech Aquifer Test

Valois:

FYI on aquifer test.

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

-----Original Message-----
From: Cepak, Mike
Sent: Wednesday, March 12, 2008 7:56 AM
To: Haag, Gary
Subject: RE: Powertech Aquifer Test

They haven't said anything definite yet. Probably will conduct one in a
few months though.
-----Original Message-----
From: Haag, Gary
Sent: Tuesday, March 11, 2008 8:11 AM
To: Cepak, Mike
Cc: Keenihan, Mark; Valois R. Shea (shea.valois@epa.gov)
Subject: Powertech Aquifer Test

Mike:

Do you know when Powertech will be conducting the aquifer test?

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501

Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

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<Shea.Valois@epamail.epa.gov>; Thu, 13 Mar 2008 16:55:17 -0400 (EDT)
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<Shea.Valois@epamail.epa.gov>; Thu, 13 Mar 2008 16:55:17 -0400 (EDT)
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<Shea.Valois@epamail.epa.gov>; Thu, 13 Mar 2008 16:55:17 -0400 (EDT)
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[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id 935635D401A
      for <Shea.Valois@epamail.epa.gov>; Thu, 13 Mar 2008 16:55:16 -0400 (EDT)
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MIME_Version: 1.0
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PostedDate: 03/13/2008 02:53:25 PM
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8725740B.0055786A@epamail.epa.gov>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Powertech Aquifer Test
Thread_Index: AciFH9yb0QwNVhGPQG+Y7HU6Z1I4KwAKO6Uw
References: <OFE221E323.FF8168FC-ON8725740B.00554D92-
8725740B.0055786A@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.3.13.134454
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26, 2007) at 03/13/2008 04:55:17 PM,MIME-CD by Notes Client on Valois
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INetFrom: .
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DeliveredDate: 03/13/2008 02:55:19 PM
$MiniView:

$RespondedTo: 2

Hi Valois,
I believe Paul forwarded your email to Mark Hollenbeck so perhaps we'll
have an answer regarding the pump test ETA soon. My understanding was
that it was going to happen in April but perhaps that was optimistic.
Thank you for the link; that will minimize my confusion.

I have another subject that we need to move forward on, drill
holes/wells, and could use your guidance:

Reading 40 CFR 146.34 I see that it requires "a tabulation of data
reasonably available from public records or otherwise known to the
applicant on wells within the area of review included on the map
required under paragraph (a)(2) of this section which penetrate the
proposed injection zone. Such data shall include a description of each
well's type, construction, date drilled, location, depth, record of
plugging and completion, and any additional information the Director may
require. In cases where the information would be repetitive and the
wells are of similar age, type, and construction the Director may elect
to only require data on a representative number of wells."

The Dewey-Burdock has approximately 4000 bore holes from historic
drilling activities (i.e. TVA). These holes do not have
plugging/abandonment records, the TVA coordinates do not currently line
up with the real world coordinates, and only about half have
logs/depths.

I'm hoping this site would be eligible for tabulating only a
representative number of wells since these holes are likely to have many
similarities (e.g. depth, age, type etc).

Any help you can offer as to what EPA will expect would be extremely
useful in the near future. I imagine we will need to obtain the required
information (description of each well's type, construction, date
drilled, location, depth, record of plugging and completion) for, at
minimum, "representative" wells, which will be a difficult task but to
obtain this information for all holes would be a substantial task.
Looking at Moore Ranch (NRC license application) I see that they only
show bore hole IDs and locations. Is this sufficient information?

Did you know the Lost Creek application to the NRC was recalled?

I appreciate your help.
Thanks!
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, March 13, 2008 9:34 AM
To: Patsy Moran
Subject: Fw: Powertech Aquifer Test

Hi it's me again. I meant to ask you if you had heard anything about the aquifer test. Gary Haag copied me on the reply below from Mike Cepak of the mining group, who thinks it will be in a few months. Thanks!

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741
----- Forwarded by Valois Shea/P2/R8/USEPA/US on 03/13/2008 09:31 AM -----

<Gary.Haag@state
.sd.us>
To
03/12/2008 06:59   Valois Shea/P2/R8/USEPA/US@EPA
AM   CC

Subject
FW: Powertech Aquifer Test

Valois:

FYI on aquifer test.

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

-----Original Message-----
From: Cepak, Mike
Sent: Wednesday, March 12, 2008 7:56 AM
To: Haag, Gary
Subject: RE: Powertech Aquifer Test

They haven't said anything definite yet. Probably will conduct one in a few months though.
-----Original Message-----
From: Haag, Gary
Sent: Tuesday, March 11, 2008 8:11 AM

To: Cepak, Mike
Cc: Keenihan, Mark; Valois R. Shea (shea.valois@epa.gov)
Subject: Powertech Aquifer Test

Mike:

Do you know when Powertech will be conducting the aquifer test?

Thanks,
Gary Haag, Hydrologist
DENR, Ground Water Quality
523 East Capitol
Pierre, SD 57501
Phone: 605-773-5855
Fax: 605-773-6035
E-mail: gary.haag@state.sd.us

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
2008031411131631-1765461 ;   Fri, 14 Mar 2008 11:13:16 -0400
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Delivered_to: shea.valois@epamail.epa.gov
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PostedDate: 03/14/2008 09:13:08 AM
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Thread_Index: AciF5ekr8uWNebkYRbaA/ts4F4hXUg==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo: "Paul Bergstrom" <pbergstrom@knightpiesold.com>
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Categories:
$Revisions:
DeliveredDate: 03/14/2008 09:13:19 AM
$MiniView:
$PaperColor: 1

Hi Valois,

Based on the drilling schedule, we are looking at mid to late April for the pump test. We will try to give you as much lead time as possible. How is your communication with USGS regarding third party review progressing?

Thanks,

Patsy

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Thread_Topic: In the office this week?
Thread_Index: AciJMr886Pz1SSbUTe+c5/q5z8piiQ==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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INetFrom: .
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$MiniView:
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Hi Valois,

Are you in this office this week or next? We are moving forward fairly quickly and would like to touch base as soon as possible.

Thanks!

Patsy

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PostedDate:  03/18/2008 02:14:04 PM
Recipients:  <pmoran@knightpiesold.com>
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AltCopyTo:
INetBlindCopyTo:
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InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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BlindCopyTo:
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Sign:  0
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```

Yes I am in! I have been working on the reply to your question about the
thousands of boreholes, but I haven't quite finished it yet.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
03/18/2008 02:00 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        In the office this week?

Hi Valois,
Are you in this office this week or next? We are moving forward fairly
quickly and would like to touch base as soon as possible.
Thanks!
Patsy

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Thread_Topic: In the office this week?
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<OFF849CB6B.40940217-ON87257410.006F0242-87257410.006F26CA@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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2008.3.18.130808
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Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:25
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$Revisions:
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$MiniView:

Cool! I look forward to hearing more.
Thanks,
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, March 18, 2008 2:14 PM
To: Patsy Moran
Subject: Re: In the office this week?

Yes I am in! I have been working on the reply to your question about
the thousands of boreholes, but I haven't quite finished it yet.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"		
<pmoran@knightpi		
esold.com>	To
Valois Shea/P2/R8/USEPA/US@EPA		
03/18/2008 02:00	cc
PM		
Subject		
In the office this week?		

Hi Valois,
Are you in this office this week or next? We are moving forward fairly
quickly and would like to touch base as soon as possible.
Thanks!
Patsy

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
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Received: from mseive01.rtp.epa.gov (mseive01.rtp.epa.gov [134.67.221.149]) by
mintra01.rtp.epa.gov (Postfix) with ESMTP id 3A29944502   for
<Shea.Valois@epamail.epa.gov>; Wed, 26 Mar 2008 19:11:15 -0400 (EDT)
Received: from mseive01.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 2E35044459   for
<Shea.Valois@epamail.epa.gov>; Wed, 26 Mar 2008 19:11:15 -0400 (EDT)
Received: from DVEX1.knightpiesold.local (dvmail.knightpiesold.com
[206.168.230.10]) by mseive01.rtp.epa.gov (Postfix) with ESMTP id D93EA44479
     for <Shea.Valois@epamail.epa.gov>; Wed, 26 Mar 2008 19:11:14 -0400 (EDT)
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: Possible call tomorrow morning?
PostedDate: 03/26/2008 05:09:51 PM
$MessageID: <9544D5A542136C49ACC1C118202AAA5514BF19@DVEX1.knightpiesold.local>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Possible call tomorrow morning?
Thread_Index: AciPln5++QVT9vsnSzKJmG3LeHCKPA==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo: "Byron Boyle" <bboyle@knightpiesold.com>
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.3.26.160048
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_70_90 0.1, __CT 0,
__CTYPE_HAS_BOUNDARY 0, __CTYPE_MULTIPART 0, __CTYPE_MULTIPART_ALT 0,
__HAS_MSGID 0, __HTML_FONT_BLUE 0, __HTML_MSWORD 0, __IMS_MSGID 0, __MIME_HTML
0, __MIME_VERSION 0, __SANE_MSGID 0, __STYLE_RATWARE_2 0, __TAG_EXISTS_HTML 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB12/USEPA/US(Release 7.0.3|September
26, 2007) at 03/26/2008 07:11:15 PM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:25
AM,MIME-CD complete at 03/23/2009 08:42:25 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetCopyTo: .
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB12/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 03/26/2008 05:11:15 PM-03/26/2008 05:13:22 PM,03/26/2008 05:13:22
PM-03/26/2008 05:13:25 PM
$Orig: 4BFACDED6F5316AF85257418007F5F6E
RoutingState:
$UpdatedBy: ,CN=EPAHUB12/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
Categories:
$Revisions: 03/26/2008 05:13:23 PM
DeliveredDate: 03/26/2008 05:13:25 PM
$MiniView:
$RespondedTo: 1
$PaperColor: 1

Hi Valois,

I was planning to call you in the morning around 830 am just to ask a few (hopefully) easy questions. Also, I'd like to introduce you to Byron Boyle; he has been helping to get the UIC permit up to speed. Will you have 30-45 minutes to talk? If not, can we schedule a phone call for the near future?

I hope you are doing well.

Thanks!

Patsy

```
$AutoSpell:  1
OriginalModTime:  03/27/2008 06:40:40 AM
In_Reply_To:  <9544D5A542136C49ACC1C118202AAA5514BF19@DVEX1.knightpiesold.local>
$NameLanguageTags:  en
AltSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
AltBlindCopyTo:
$Mailer:  Lotus Notes Release 7.0.3 September 26, 2007
$MessageID:  <OF859B77FC.3F825C1E-ON87257419.004599C7-
87257419.0045A460@LocalDomain>
INetFrom:  Shea.Valois@epamail.epa.gov
PostedDate:  03/27/2008 06:40:40 AM
Recipients:  <pmoran@knightpiesold.com>
MAILOPTIONS:  0
SaveOptions:  1
ldf_createddate:  null
ldf_from:  null
ldf_archive:  null
ldf_temp:  null
$AltNameLanguageTags:
$StorageCc:
$StorageTo:  .
$StorageBcc:
INetCopyTo:
INetSendTo:  .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:  StdNotesLtr32
tmpImp2:
DefaultMailSaveOptions:  1
Query_String:
PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:  Re: Possible call tomorrow morning?
ldf_locale:  en-US
Encrypt:  0
Sign:  0
ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo:  4BFACDED6F5316AF85257418007F5F6E
$UpdatedBy:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
```

That sounds fine. I will be sure to be at my desk & off the phone at 8:30.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
03/26/2008 05:09 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc
        "Byron Boyle" <bboyle@knightpiesold.com>
        Subject
        Possible call tomorrow morning?

Hi Valois,
I was planning to call you in the morning around 830 am just to ask a few
(hopefully) easy questions. Also, I'd like to introduce you to Byron
Boyle; he has been helping to get the UIC permit up to speed. Will you
have 30-45 minutes to talk? If not, can we schedule a phone call for the
near future?
I hope you are doing well.
Thanks!
Patsy

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
200803271032249-3477012 ;   Thu, 27 Mar 2008 10:32:24 -0400
Received: by mintra02.rtp.epa.gov (Postfix)   id 851E24450A; Thu, 27 Mar 2008
10:32:24 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 7A0CE4451A   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 10:32:24 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (mseive02.rtp.epa.gov [134.67.221.150]) by
mintra02.rtp.epa.gov (Postfix) with ESMTP id 743C64450A   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 10:32:24 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 66A7C5D408A   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 10:32:24 -0400 (EDT)
Received: from DVEX1.knightpiesold.local (dvmail.knightpiesold.com
[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id E95A25D4072
     for <Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 10:32:21 -0400 (EDT)
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: RE: Possible call tomorrow morning?
PostedDate: 03/27/2008 08:30:31 AM
$MessageID: <9544D5A542136C49ACC1C118202AAA5514BF22@DVEX1.knightpiesold.local>
In_Reply_To: <OF859B77FC.3F825C1E-ON87257419.004599C7-
87257419.0045A460@epamail.epa.gov>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Possible call tomorrow morning?
Thread_Index: AciQB4czO0nTR9vqTIyuA6FWoEWtrwAD4JVA
References: <9544D5A542136C49ACC1C118202AAA5514BF19@DVEX1.knightpiesold.local>
<OF859B77FC.3F825C1E-ON87257419.004599C7-87257419.0045A460@epamail.epa.gov>
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.3.27.71744
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='__C230066_P5 0, __CT 0,
__CTE 0, __CT_TEXT_PLAIN 0, __FRAUD_419_CONTACT_NUM 0, __HAS_MSGID 0,
__IMS_MSGID 0, __MIME_TEXT_ONLY 0, __MIME_VERSION 0, __SANE_MSGID 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 7.0.3|September
26, 2007) at 03/27/2008 10:32:24 AM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:25
AM,MIME-CD complete at 03/23/2009 08:42:25 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 03/27/2008 08:32:24 AM-03/27/2008 08:32:25 AM,03/27/2008 08:32:25
AM-03/27/2008 08:32:26 AM
$Orig: 7EA8B268F54086DB85257419004FDF07
RoutingState:
$UpdatedBy: ,CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
Categories:
$Revisions:
DeliveredDate: 03/27/2008 08:32:26 AM
$MiniView:

Hi Valois,
Byron and I will call in about two minutes.
Thanks,
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, March 27, 2008 6:41 AM
To: Patsy Moran
Subject: Re: Possible call tomorrow morning?

That sounds fine. I will be sure to be at my desk & off the phone at
8:30.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
03/26/2008 05:09   cc
PM   "Byron Boyle"
<bboyle@knightpiesold.com>
Subject
Possible call tomorrow morning?

Hi Valois,
I was planning to call you in the morning around 830 am just to ask a
few (hopefully) easy questions. Also, I'd like to introduce you to Byron
Boyle; he has been helping to get the UIC permit up to speed. Will you
have 30-45 minutes to talk? If not, can we schedule a phone call for the
near future?
I hope you are doing well.
Thanks!
Patsy

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
200803271126370-3491123 ;   Thu, 27 Mar 2008 11:26:37 -0400
Received: by mintra02.rtp.epa.gov (Postfix)   id 9C0C544521; Thu, 27 Mar 2008
11:26:37 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 627D244518   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 11:26:37 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (mseive02.rtp.epa.gov [134.67.221.150]) by
mintra02.rtp.epa.gov (Postfix) with ESMTP id E1C4644519   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 11:26:35 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id B5EE65D408C   for
<Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 11:26:35 -0400 (EDT)
Received: from DVEX1.knightpiesold.local (dvmail.knightpiesold.com
[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id 11D4A5D4077
      for <Shea.Valois@epamail.epa.gov>; Thu, 27 Mar 2008 11:26:07 -0400 (EDT)
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: CSC permit application
PostedDate: 03/27/2008 09:24:20 AM
$MessageID: <9544D5A542136C49ACC1C118202AAA5514BF33@DVEX1.knightpiesold.local>
X_MS_Has_Attach: yes
X_MS_TNEF_Correlator:
Thread_Topic: CSC permit application
Thread_Index: AciQHqExaQEc6o21TIamUkVjuDAMjg==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.3.27.81259
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_90_100 0.1,
PDF_ATTACHED_2 0, __CT 0, __CTYPE_HAS_BOUNDARY 0, __CTYPE_MULTIPART 0,
__HAS_MSGID 0, __HTML_FONT_BLUE 0, __HTML_MSWORD 0, __IMS_MSGID 0, __MIME_HTML
0, __MIME_VERSION 0, __SANE_MSGID 0, __STYLE_RATWARE_2 0, __TAG_EXISTS_HTML 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 7.0.3|September
26, 2007) at 03/27/2008 11:26:38 AM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:25
AM,MIME-CD complete at 03/23/2009 08:42:25 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 03/27/2008 09:26:38 AM-03/27/2008 09:26:40 AM,03/27/2008 09:27:03
AM-03/27/2008 09:27:04 AM
$Orig: D3B3BD524FE0529B852574190054D621
RoutingState:
$UpdatedBy: ,CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
Categories:
$Revisions: 03/27/2008 09:27:04 AM
DeliveredDate: 03/27/2008 09:27:04 AM
$MiniView:
$RespondedTo: 1
$FILE:
$PaperColor: 1

In case you haven't seen this.

Patsy - csc-uic-permit-application.pdf

ATTACHMENT: csc-uic-permit-application.pdf vrs

PRINCIPAL: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
ForwardedFrom: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
ForwardedDate: 03/27/2008 09:50:03 AM
$FILE:
$AutoSpell: 1
OriginalModTime: 03/27/2008 09:51:17 AM
INetSendTo: .
INetCopyTo:
INetBlindCopyTo:
$StorageTo: .
$Mailer: Lotus Notes Release 7.0.3 September 26, 2007
$MessageID: <OF5D83FF09.A628775E-ON87257419.0056FA8A-
87257419.0057190C@LocalDomain>
INetFrom: Shea.Valois@epamail.epa.gov
PostedDate: 03/27/2008 09:51:19 AM
Recipients: <pmoran@knightpiesold.com>
MAILOPTIONS: 0
SaveOptions: 1
ldf_createddate: null
ldf_from: null
ldf_archive: null
ldf_temp: null
From: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo: StdNotesLtr32
useApplet: True
tmpImp2:
DefaultMailSaveOptions: 1
Query_String:
SentToDocu: False
SendTo: "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject: Fw: WY COGEMA Excursion/monitor well location
ldf_locale: en-US
Encrypt: 0
Sign: 0
ReturnReceipt: 0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo: "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo: 0394A416C0CBB7718525740B0077F794
$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

----- Forwarded by Valois Shea/P2/R8/USEPA/US on 03/27/2008 09:50 AM -----

"Steve Ingle" <SINGLE@state.wy.us>
03/13/2008 03:50 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Excursion/monitor well location

Valois,

I've attached a wellfield simulation that shows a simulated excursion and
retrieval within the 60 day criteria we use. I hope this helps.

Steve

ATTACHMENT: Mine_Unit_7_Pump_Test_Results_&_Analysis.pdf vrs

```
$AutoSpell:  1
$FILE:
OriginalModTime:  03/27/2008 10:43:55 AM
In_Reply_To:  <9544D5A542136C49ACC1C118202AAA5514BF33@DVEX1.knightpiesold.local>
$NameLanguageTags:  en
AltSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
AltBlindCopyTo:
$Mailer:  Lotus Notes Release 7.0.3 September 26, 2007
$MessageID:  <OF191C9D9F.5F9E1351-ON87257419.005BD35D-
87257419.005BE9A4@LocalDomain>
INetFrom:  Shea.Valois@epamail.epa.gov
PostedDate:  03/27/2008 10:43:55 AM
Recipients:  <pmoran@knightpiesold.com>
MAILOPTIONS:  0
SaveOptions:  1
ldf_createddate:  null
ldf_from:  null
ldf_archive:  null
ldf_temp:  null
$AltNameLanguageTags:
$StorageCc:
$StorageTo:  .
$StorageBcc:
INetCopyTo:
INetSendTo:  .
AltCopyTo:
INetBlindCopyTo:
InheritedReplyTo:
InheritedFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
InheritedFromDomain:
From:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
AltFrom:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
Logo:  StdNotesLtr32
useApplet:  True
tmpImp2:
DefaultMailSaveOptions:  1
Query_String:
PRINCIPAL:  CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US
SentToDocu:  False
SendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject:  7520-13 P&A Record
ldf_locale:  en-US
Encrypt:  0
Sign:  0
ReturnReceipt:  0
delTmpEncrypt:
delTmpImportance:
delTmpReturnReceipt:
delTmpSign:
EnterSendTo:  "Patsy Moran" <pmoran@knightpiesold.com>
EnterCopyTo:
EnterBlindCopyTo:
$RFSaveInfo:  D3B3BD524FE0529B852574190054D621
```

$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

ATTACHMENT: 7520-13 Plugging Record.snp vrs

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub12.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
2008032811145713-2644576 ;   Fri, 28 Mar 2008 11:14:57 -0400
Received: by mintra02.rtp.epa.gov (Postfix)   id 270B0444E1; Fri, 28 Mar 2008
11:14:57 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 1C505444C6   for
<Shea.Valois@epamail.epa.gov>; Fri, 28 Mar 2008 11:14:57 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (mseive02.rtp.epa.gov [134.67.221.150]) by
mintra02.rtp.epa.gov (Postfix) with ESMTP id 00E6844509   for
<Shea.Valois@epamail.epa.gov>; Fri, 28 Mar 2008 11:14:57 -0400 (EDT)
Received: from mseive02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id E81B3448A8   for
<Shea.Valois@epamail.epa.gov>; Fri, 28 Mar 2008 11:14:56 -0400 (EDT)
Received: from DVEX1.knightpiesold.local (dvmail.knightpiesold.com
[206.168.230.10]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id 5FA70448AC
      for <Shea.Valois@epamail.epa.gov>; Fri, 28 Mar 2008 11:14:56 -0400 (EDT)
Subject: Mine Unit 7 Pump Test Document
MIME_Version: 1.0
PostedDate: 03/28/2008 09:13:02 AM
$MessageID: <9544D5A542136C49ACC1C118202AAA5514BFCA@DVEX1.knightpiesold.local>
X_MIMEOLE: Produced By Microsoft Exchange V6.5
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Mine Unit 7 Pump Test Document
Thread_Index: AciQ5jdAu37ALHanS3O10wo1kaaKsQ==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: <SINGLE@state.wy.us>
CopyTo: "Cory Conrad" <cconrad@knightpiesold.com>,Valois
Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.3.28.80044
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_70_90 0.1, __CT 0,
__CTYPE_HAS_BOUNDARY 0, __CTYPE_MULTIPART 0, __CTYPE_MULTIPART_ALT 0,
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INetFrom: .
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$Revisions:
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$MiniView:
$PaperColor: 1

Hi Steve,

Valois gave use the Mine Unit 7 Pump Test wellfield simulation document.
Cory Conradread through it last night and said it was a HUGE help. We are
hoping to obtain the figures/tables maps etc. Is this possible? I'm
keeping my fingers crossed that the requested information is already
electronic.

I really appreciate the help!

Thank you,

Patsy

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InheritedAltFrom: "Patsy Moran" <pmoran@knightpiesold.com>
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Hi Patsy, I have finally finished obsessing about this checklist for
figure in the permit application. It is still in DRAFT form, so please let
me know if it coincides with what you were thinking or if there is a way
to make it more helpful for permit applicants.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

ATTACHMENT: Class III Permit App Figure Checklist.doc vrs

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epahub12.rtp.epa.gov (Lotus Domino Release 7.0.3) with ESMTP id
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Hi Valois,

If you have time now can you give Cory a call at 303 867 2208. It should
be quick.

Thanks,

Patsy

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InheritedAltFrom:  "Patsy Moran" <pmoran@knightpiesold.com>
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Hi Patsy, I just wanted to let you know I checked the regs & both the mining regs 74:29:11:07 & the WQ regs 74:55:01:35 say a minimum of 6 months of monthly sampling. Maybe they are extending it to a year to match NRC. I'll ask about that & let you know.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
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From: "Richard Blubaugh" <rblubaugh@powertechuranium.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo: "'Mark Hollenbeck'" <mhollenbeck@powertechuranium.com>
References: <005401c8a3ec$b5187f30$6a32a8c0@powertech.local>
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PostedDate: 04/22/2008 11:11:24 AM
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$MiniView:
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Valois,
Would you be able to attend a project update meeting in Rapid City next
Friday? We are thinking that we need to have it fairly soon if we are to
have such a meeting prior to the pump tests which we plan on conducting in
May.
Richard Blubaugh
Powertech (USA) Inc.
303-790-7528

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, April 21, 2008 3:52 PM
To: Richard Blubaugh
Subject: RE: Days I am out in May & June

Yes I have all day open.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Richard
Blubaugh"
<rblubaugh@power   To
techuranium.com>   Valois Shea/P2/R8/USEPA/US@EPA
                         cc
04/21/2008 02:17
PM   Subject
RE: Days I am out in May & June

Valois,
Are you available next Friday, May 2nd?
Richard

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, April 21, 2008 10:15 AM
To: Kaci Walker; rblubaugh@powertechuranium.com;
twalsh@powertechuranium.com
Subject: Days I am out in May & June

May
Mon 5 - Wed 7
Wed 14 - Fri 16
Mon 19 - Fri 23
Mon 26
Thur 29 - Mon June 2

June
Tues 10 - Wed 18 (or something like that)
Mon 23 - Fri 27
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
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Hi Valois,

Here is the Dewey-Burdock pump test work plan.

Patsy - Pump Test Workplan_Rev2.pdf

ATTACHMENT: Pump Test Workplan_Rev2.pdf vrs

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mx8.knightpiesold.com with Microsoft SMTPSVC(6.0.3790.3959);   Thu, 1 May
2008 11:44:38 -0700
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vawebmail.knightpiesold.com with Microsoft SMTPSVC(6.0.3790.3959);   Thu, 1
May 2008 11:43:09 -0700
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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo:
<rblubaugh@powertechuranium.com>,<mhollenbeck@powertechuranium.com>,"Paul
Bergstrom" <pbergstrom@knightpiesold.com>
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$Revisions:
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Hi Valois,
I need to make sure that Powertech is okay with giving the additional
cross sections out seeing as they need some reviews/edits. I'm cc'ing
Rich and Mark on this email so that Powertech can make that decision.
Sorry for the delay.
Patsy

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epahub12.rtp.epa.gov (Lotus Domino Release 7.0.3)   with ESMTP id
2008050519404257-2073015 ;   Mon, 5 May 2008 19:40:42 -0400
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From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo: <KaciWalker@R2Incorporated.com>,"Paul Bergstrom"
<pbergstrom@knightpiesold.com>
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26, 2007) at 05/05/2008 07:40:42 PM,MIME-CD by Notes Client on Valois
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Hi Valois,

I had a great conversation with Kaci Walker today regarding our individual approaches to the monitoring program and aquifer exemption boundaries, etc. We both agree that it would be useful to meet with you and the operations folks (perhaps John and/or Wallace Mays) to discuss these items. I expressed that you were concerned over lack of continuous monitoring and we believe there may be some confusion about where continuous monitoring applies. The Dewey-Burdock Site monitoring program has continuously monitoring for the following parameters:

Parameter

Monitoring Frequency

Monitoring Instrument

injection rate (gpm)

Continuous

Digital Recorder

injection total volume (gallons)

Continuous

Digital Totalizer

injection pressure (psig)

Continuous

Digital Recorder

annular pressure (psig)

Continuous

Digital Recorder

injection fluid temperature (°F)

Continuous

Digital Recorder

quartz capillary pressure (psig)

    Continuous

       Digital Recorder

Fluid level and control parameters (other parameters I'm forgetting right now?) will not be continuously monitored. I hope this is in-line with your thinking. Please let me know if this is not how you interpret the rules.

I didn't see anything from Rich about the cross sections; he probably got overwhelmed with other beginning of the week items. However, once the minor changes are made I will get you new copies. I have not looked over the cross sections in enough detail to say if I believe they fulfill the permit application requirements yet. Once I've gone through that iteration and you have updated copies, I'm hoping you and I can sit down and discuss your take on the completeness of the cross sections. Would you be interested in sitting down (another meeting-sorry) sometime in the next few weeks?

I hope your week is going well so far.

Thanks,

Patsy

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epahub11.rtp.epa.gov (Lotus Domino Release 7.0.3) with ESMTP id
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$MiniView:
$PaperColor: 1

Paul D. Bergstrom, C.E.P.

Senior Associate

Knight Piésold and Co.

1580 Lincoln Street, Suite 1000   New Address!

Denver, CO80203-1512

USA

Phone: (303) 629-8788

Direct: (303) 867-2270

Fax: (303) 629-8789

Web Site: http://www.knightpiesold.com

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From: Michael Beshore [mailto:mbeshore@powertechuranium.com]
Sent: Wednesday, May 07, 2008 4:50 PM
To: DENRINTERNET@state.sd.us
Cc: 'Mark Hollenbeck'; 'Richard Blubaugh'; 'John Mays'; flichnovsky@powertechuranium.com; Cory Conrad; 'Cory S. Foreman'; Paul Bergstrom
Subject: Atten: Bobbie Fivecoate

Hi Bobbie, Below is a schedule of pumping test activities at the Dewey-Burdock site for next week. I think I said last week that I would forward you this.

Monday, May 12: Conduct Step Drawdown Tests at Burdock.

Tuesday, May 13: Conduct Step Drawdown Tests at Dewey.

Wednesday, May 14: Possibly begin/continue pump test at the Burdock site. This depends on if the aquifer has stabilized following step drawdown test.

       *If aquifer has not yet stabilized at Burdock, take day off and wait another day.

Thursday, May 15: Possibly begin/continue pump test at the Burdock site. This depends on if the aquifer has stabilized following step drawdown test.

       *If aquifer has not yet stabilized at Burdock, take day off and wait another day.

Friday, May 16: Definitely begin conducting 72 hour pump test at the Burdock site.

Saturday, May 17: Continue Burdock pump test. Possibly begin Dewey pump test.

Sunday, May 18: Continue Burdock pump test. Possibly begin Dewey pump test.

Monday, May 19: Definitely begin conducting 72 hour pump test at the Dewey site.

Tuesday, May 20: Continue Dewey pump test.

Wednesday, May 21: Continue and Complete Dewey pump test.

Hope this is fairly clear. The day we begin the Burdock pump test will be determined how quickly the aquifer stabilizes following the step drawdown test on Monday at Burdock. If stabilization takes place by Wednesday we will begin the pump test. But we would like to at the most give the aquifer 3 days to reach static. However, regardless we will begin the Burdock pump test by Friday. We will stay in touch with you by phone (forward me a phone number) so we can tell you when we are beginning the Burdock pump test. Either way, you are welcome to come out to oversee some

step drawdown activities on Monday and Tuesday if you would like. Tuesday we should have a better feel for when pumping will begin at Burdock.

Thanks, Mike

Michael D. Beshore, P.G.

Senior Environmental Coordinator

Powertech (USA) Inc.

P.O. Box 1066

8305 6th Street

Wellington, CO80549

(970) 282-7777 office

(970) 556-5988 cell

(970) 568-3423 fax

Email: mbeshore@powertechuranium.com

Website: www.powertechuranium.com

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Hi Valois, I almost forgot to send you the schedule. Hope to see you up
there if you get a chance to get to the field.

Mike

From:Michael Beshore [mailto:mbeshore@powertechuranium.com]
Sent: Wednesday, May 07, 2008 4:50 PM
To: 'DENRINTERNET@state.sd.us'
Cc: 'Mark Hollenbeck'; 'Richard Blubaugh'; 'John Mays';
'flichnovsky@powertechuranium.com'; 'Cory Conrad'; 'Cory S. Foreman';
'Paul Bergstrom'
Subject: Atten: Bobbie Fivecoate

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This depends on if the aquifer has stabilized following step drawdown test.

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Thanks, Mike

Michael D. Beshore, P.G.

Senior Environmental Coordinator

Powertech (USA) Inc.

P.O. Box 1066

8305 6th Street

Wellington, CO 80549

(970) 282-7777 office

(970) 556-5988 cell

(970) 568-3423 fax

Email: mbeshore@powertechuranium.com

Website: www.powertechuranium.com

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Thread_Topic: UIC program
Thread_Index: Aci1DGuvpGHGTih0QtmBmCp3gUWJvQ==
From: "Patsy Moran" <pmoran@knightpiesold.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_PMX_Version: 5.3.3.310218, Antispam-Engine: 2.5.2.311128, Antispam-Data:
2008.5.13.80455
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26, 2007) at 05/13/2008 11:17:18 AM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:25
AM,MIME-CD complete at 03/23/2009 08:42:25 AM
INetSendTo: Shea.Valois@epamail.epa.gov
INetFrom: .
SMTPOriginator: pmoran@knightpiesold.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
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Categories:
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DeliveredDate: 05/13/2008 09:17:21 AM
$MiniView:
$RespondedTo: 1
$PaperColor: 1

Hi Valois,

I noticed that the UIC program is looking for a GS-12/13. Are you aware of this and if so is this person going to be assisting you with Class III permitting?

We are still working towards a meeting regarding the monitoring programs for Centennial and Dewey-Burdock. I'm a bit overloaded at the moment but would like to talk about scheduling a meeting next week.

I hope all is well.

Thanks,

Patsy

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InheritedReplyTo:
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```

I am going to be out of the office until May 23. I will try to give you a
call while I am out on travel to catch up!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
05/13/2008 09:17 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        UIC program

Hi Valois,
I noticed that the UIC program is looking for a GS-12/13. Are you aware of
this and if so is this person going to be assisting you with Class III
permitting?
We are still working towards a meeting regarding the monitoring programs
for Centennial and Dewey-Burdock. I'm a bit overloaded at the moment but
would like to talk about scheduling a meeting next week.
I hope all is well.
Thanks,
Patsy

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2008051316252202-2970535 ;   Tue, 13 May 2008 16:25:22 -0400
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X_MS_TNEF_Correlator:
Thread_Topic: UIC program
Thread_Index: Aci1NwG9T79FI7ILQg+w5UfcD/42AAAADWFQ
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SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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DeliveredDate: 05/13/2008 02:25:26 PM
$MiniView:

$RespondedTo: 1

Hi Valois,
I'll be out May 22, 23 and 26th. Otherwise I should be fairly easy to
reach. I'll talk with you soon.
Thanks,
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, May 13, 2008 2:22 PM
To: Patsy Moran
Subject: Re: UIC program

I am going to be out of the office until May 23. I will try to give you
a call while I am out on travel to catch up!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
05/13/2008 09:17   cc
AM
Subject
UIC program

Hi Valois,
I noticed that the UIC program is looking for a GS-12/13. Are you aware
of this and if so is this person going to be assisting you with Class
III permitting?
We are still working towards a meeting regarding the monitoring programs
for Centennial and Dewey-Burdock. I'm a bit overloaded at the moment but
would like to talk about scheduling a meeting next week.
I hope all is well.
Thanks,
Patsy

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BlindCopyTo:
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Sign:  0
ReturnReceipt:  0
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delTmpSign:
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```

Hi Patsy, I have a meeting this morning, but I can give you a call after
lunch.   Would 1:00 work? Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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$UpdatedBy: CN=Valois Shea/OU=P2/OU=R8/O=USEPA/C=US

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

ATTACHMENT: AOR ZOI Definitions v3 6 20 2008.doc vrs

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BlindCopyTo:
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ldf_locale: en-US
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_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

----- Forwarded by Valois Shea/P2/R8/USEPA/US on 06/20/2008 09:51 AM -----

"Steve Ingle" <SINGLE@state.wy.us>
06/11/2008 09:49 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Re: Fw: Question back for you

Valois,

Here are the Moore Ranch comments. As I mentioned in my email yesterday,
when they get into technical review there will be many more comments.

I hope this helps.

Steve

ATTACHMENT: EMappCrv1.7gm.doc vrs

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Logo: StdNotesLtr32
useApplet: True
tmpImp2:
DefaultMailSaveOptions: 1
Query_String:
SentToDocu: False
SendTo: "Patsy Moran" <pmoran@knightpiesold.com>
CopyTo:
BlindCopyTo:
Subject: Fw: Question back for you
ldf_locale: en-US
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Sign: 0
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_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741
----- Forwarded by Valois Shea/P2/R8/USEPA/US on 06/20/2008 09:52 AM -----

"Steve Ingle" <SINGLE@state.wy.us>
06/10/2008 09:40 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Re: Fw: Question back for you

Valois,

The permit coordinator has the comments electronically and is out of the
office today. I'll try to get them to you tomorrow. Our review consists
of 2 parts, the first is completeness, where we determine if all the
component parts are addressed and then after the application is declared
complete (or substantially complete), then we begin our technical review.
For example, doing a pump test would be completeness, doing it right would
be technical.

Right now they are marginally complete, but from the preliminary technical
issues they are very deficient. They are a long ways from getting their
permit.

Steve

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2008071017355750-269877 ;   Thu, 10 Jul 2008 17:35:57 -0400
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Hi Valois,

Currently the draft permit application states that no stimulation program
is planned for the Dewey-Burdock Project. Do you believe well stimulation
should be proposed even if it is not necessarily used? I've researched the
topic and discussed it with people with a bit more technical expertise and
don't believe well stimulation is a common practice for uranium UIC. Am I
way off base?

I appreciate your assistance.

Thank you,

Patsy

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I agree that well stimulation is not common practice for uranium mining injection wells & should not be needed, so no proposed plan is necessary for the permit app.

Just to let you know, Wendy & I are still working on that aquifer exemption boundary document. We got input from Petrotek, too. I think we would also like to talk to the WY LQD staff before we finalize it. Hope it was not too rude an awakening to return to CO from Hawaii!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
07/10/2008 03:35 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Quick question....

Hi Valois,
Currently the draft permit application states that no stimulation program is planned for the Dewey-Burdock Project. Do you believe well stimulation should be proposed even if it is not necessarily used? I've researched the topic and discussed it with people with a bit more technical expertise and don't believe well stimulation is a common practice for uranium UIC. Am I way off base?
I appreciate your assistance.
Thank you,
Patsy

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Hi Valois,
Thanks! One less thing to worry about today. Of course, I'll put the
attachment in the application and just have a short statement saying
that no stimulation program is being proposed at this time.

I'm sure I'll have a ton of questions for you in the near future... what
is your schedule like over the next few weeks?

I hope you are doing well.
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, July 14, 2008 11:15 AM
To: Patsy Moran
Subject: Re: Quick question....

I agree that well stimulation is not common practice for uranium mining
injection wells & should not be needed, so no proposed plan is necessary
for the permit app.

Just to let you know, Wendy & I are still working on that aquifer
exemption boundary document. We got input from Petrotek, too. I think
we would also like to talk to the WY LQD staff before we finalize it.
Hope it was not too rude an awakening to return to CO from Hawaii!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
07/10/2008 03:35   cc
PM
Subject
Quick question....

Hi Valois,
Currently the draft permit application states that no stimulation

program is planned for the Dewey-Burdock Project. Do you believe well
stimulation should be proposed even if it is not necessarily used? I've
researched the topic and discussed it with people with a bit more
technical expertise and don't believe well stimulation is a common
practice for uranium UIC. Am I way off base?
I appreciate your assistance.
Thank you,
Patsy

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Hi Valois,
The information I have suggests that verification of financial resources
for the UIC permit (Attachment R-Necessary Resources) is for well
plugging and abandonment only. Therefore, I am putting together a range
of costs which will depend on the number of wells, diameter and depth
(and cement vs bentonite grout). Is my interpretation consistent with
your understanding?
Thanks!
Patsy

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Yes that sounds good. When I talked with Britta Copt, our Financial
Responsibility person, she said a bid from a contractor on how much it
would cost to close an example well is needed. I think your company does
that sort of work? So if you could document the info you described below
as a proposed bid or estimate from Knight Piesold to include in the permit
app, that would be good. Would that cause a problem (either with
Powertech or KP) for you to do that?

I am telecommuting Tues & Wed this week and I hope 3 days next week to
catch up on stuff. I hope to take off the week of July 28, but that week
off can be moved around - it is basically for home projects. So let me
know how that week off works for your schedule. Any estimated date for
delivery of the permit app?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
07/14/2008 11:36 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Necessary Resources

Hi Valois,
The information I have suggests that verification of financial resources
for the UIC permit (Attachment R-Necessary Resources) is for well
plugging and abandonment only. Therefore, I am putting together a range
of costs which will depend on the number of wells, diameter and depth
(and cement vs bentonite grout). Is my interpretation consistent with
your understanding?
Thanks!
Patsy

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Hi Valois,
Thanks! Very helpful. I need to find out about the bid because we
generally use sub-contractors to do that sort of work but a bid seems
like a reasonable expectation.

I'm still on schedule for the August 1st submission of the draft permit
application to Powertech. They have two weeks of review in their
schedule and two weeks for us to make the changes. So September 1st is
the big day. If things look like they are changing I'll let you know
asap. The next week or so will be key.

I have a question about isopach map requirements. I need to talk to Cory
a bit first. I just wanted to give you a heads up.

I appreciate your help.
Patsy

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, July 14, 2008 12:04 PM
To: Patsy Moran
Subject: Re: Necessary Resources

Yes that sounds good. When I talked with Britta Copt, our Financial
Responsibility person, she said a bid from a contractor on how much it
would cost to close an example well is needed. I think your company
does that sort of work? So if you could document the info you described
below as a proposed bid or estimate from Knight Piesold to include in
the permit app, that would be good. Would that cause a problem (either
with Powertech or KP) for you to do that?

I am telecommuting Tues & Wed this week and I hope 3 days next week to
catch up on stuff. I hope to take off the week of July 28, but that
week off can be moved around - it is basically for home projects. So let
me know how that week off works for your schedule. Any estimated date
for delivery of the permit app?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran"
<pmoran@knightpi
esold.com>   To
Valois Shea/P2/R8/USEPA/US@EPA
07/14/2008 11:36   cc
AM
Subject
Necessary Resources

Hi Valois,
The information I have suggests that verification of financial resources
for the UIC permit (Attachment R-Necessary Resources) is for well
plugging and abandonment only. Therefore, I am putting together a range
of costs which will depend on the number of wells, diameter and depth
(and cement vs bentonite grout). Is my interpretation consistent with
your understanding?
Thanks!
Patsy

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Hi Valois,

I'm sorry to ask such a basic question but here it goes:

The actual permit application (1 page) asks for the number of wells (this information is required elsewhere also). I'm hoping an approximate number is acceptable, is this your understanding? Is this number for all wells including injection, production and monitoring wells or does it exclude monitoring wells?

I appreciate your help.

Thank you,

Patsy

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sure until the wells are actually being installed. So for the form on page 1, if you would like put a page number in that space referring to the page in the application where that topic is discussed, that would be more helpful than an estimated number of wells. Where it asks for the number of wells elsewhere in the application, the # wellfields with # patterns that are anticipated would be more helpful information & even that is probably an estimate at the time of the application.

I figure each well pattern will be a 5-spot. Even though the center well would actually be a recovery well, we will permit each well as an injection well, to give the operator the flexibility of using any of the recovery wells for injection when needed.

It is helpful to get these questions for when it is time for us to put together better permit app instructions.
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

-----"Patsy Moran" <pmoran@knightpiesold.com> wrote: -----

To: Valois Shea/P2/R8/USEPA/US@EPA
From: "Patsy Moran" <pmoran@knightpiesold.com>
Date: 07/14/2008 05:38PM
Subject: UIC application

Hi Valois,

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Patsy

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Hi Valois,

Once again you have been very helpful. I will do what you've suggested below. I'm sure more questions will follow soon.

I hope your day is going well.

Thanks,

Patsy

From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Tuesday, July 15, 2008 9:25 AM
To: Patsy Moran
Subject: Re: UIC application

I don't see how anyone could really know how many wells will be needed for sure until the wells are actually being installed. So for the form on page 1, if you would like put a page number in that space referring to the page in the application where that topic is discussed, that would be more helpful than an estimated number of wells. Where it asks for the number of wells elsewhere in the application, the # wellfields with # patterns that are anticipated would be more helpful information & even that is probably an estimate at the time of the application.

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_____
Valois Shea
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8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

-----"Patsy Moran" <pmoran@knightpiesold.com> wrote: -----

To: Valois Shea/P2/R8/USEPA/US@EPA
From: "Patsy Moran" <pmoran@knightpiesold.com>
Date: 07/14/2008 05:38PM
Subject: UIC application

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including injection, production and monitoring wells or does it exclude
monitoring wells?

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Thank you,

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Hi Valois,

Is the plugging and abandonment bond for all mine units or for the first only? I just noticed Lost Creek and Moore Ranch only have estimates for the first mine unit.

Thanks!

Patsy

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I don't know. I think we just need enough to close any active wells as mining is done incrementally.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Patsy Moran" <pmoran@knightpiesold.com>
07/17/2008 05:07 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc

        Subject
        Plugging and Abandonment

Hi Valois,
Is the plugging and abandonment bond for all mine units or for the first only? I just noticed Lost Creek and Moore Ranch only have estimates for the first mine unit.
Thanks!
Patsy

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Hi Valois,

We're working on the figures now and inevitably some questions have come up. The NRC has a number of different buffer zones (1/4 mile, 1 mile, 2 mile etc). When you refer to the buffer zone for the Site Plan Map and Monitoring Program Maps are you referring to the 2 mile criteria (2 miles from the site boundary) used for Site Characterization as discussed in NUREG 1569? I can see this being the case for the Site Plan map but I believe it would take away from the Monitoring Program Maps. Do I understand what you are requesting?

Thanks!

Patsy

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Hi Valois,

For Attachment P-Monitoring Program we will provide map(s) with the information as detailed in your List of Figures but I need to make sure my approach isn't inconsistent with your vision.

We currently plan to use a figure similar to the attached Moore Ranch Figure to illustrate the monitoring plan (with production zone monitoring wells 400 ft part and 400 ft from the well field, a single mine unit and color coded designation for the screened interval (i.e., production, underlying, overlying). Is this Figure in line with what you were hoping to see?

Figure (as described above):   wells in wellfields-TYPICAL MINE UNIT?

location of monitoring wells as appropriate

labeled with well numbers/names

designate screened or open interval for each well. (e.g. color-coded according to mining zones, aquifers above, and aquifers below)

and…

Large Map: large mine permit boundary

area of review

zone of influence-NO LONGER ON MAP

buffer zone (as defined by NCR permit requirements) NEED CLARITY

monitor well ring wells

aquifer exemption boundary

Do you want the wells in all wellfields illustrated and all monitoring wells?

Would it be a problem if I put the isopachs and potentiometric maps in with the cross sections rather than in the monitoring program attachment?

I hope this is fairly clear? If not, we can talk on the phone. I'm in the office all week.

Thanks,

Patsy

   - Moore Ranch Mine unit Monitoring.pdf

ATTACHMENT: Moore Ranch Mine unit Monitoring.pdf vrs

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I don't know if I even understand what I am asking! I'll ponder that

question & get back to you.

_____

Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

-----"Patsy Moran" <pmoran@knightpiesold.com> wrote: -----

To: Valois Shea/P2/R8/USEPA/US@EPA
From: "Patsy Moran" <pmoran@knightpiesold.com>
Date: 07/21/2008 10:53AM
Subject: NRC buffer zone question?

Hi Valois,

We're working on the figures now and inevitably some questions have come
up. The NRC has a number of different buffer zones (1/4 mile, 1 mile, 2
mile etc). When you refer to the buffer zone for the Site Plan Map and
Monitoring Program Maps are you referring to the 2 mile criteria (2 miles
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Thanks!

Patsy

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Hi Valois,

Thanks!

Sorry about the barrage of questions. I should have asked these before but
I had more pressing issues that were occupying my time.

Patsy

From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Monday, July 21, 2008 6:00 PM
To: Patsy Moran
Subject: Re: NRC buffer zone question?

I don't know if I even understand what I am asking! I'll ponder that
question & get back to you.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

-----"Patsy Moran" <pmoran@knightpiesold.com> wrote: -----

To: Valois Shea/P2/R8/USEPA/US@EPA
From: "Patsy Moran" <pmoran@knightpiesold.com>
Date: 07/21/2008 10:53AM
Subject: NRC buffer zone question?

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from the site boundary) used for Site Characterization as discussed in
NUREG 1569? I can see this being the case for the Site Plan map but I
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Thanks!

Patsy

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Hi Valois,

Does Powertech need to have the financial responsibility demonstration completed at the time the permit application is submitted or do they just need to specify which instrument they plan to use? Looking at the information you sent me on 1/18/2008 (specifically the review form) implies that the documentation should be in place.
Thanks,
Patsy

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Hi Valois,
Another question....
The necessary resources information implies that only injection wells
(i.e., injection and production) need to be taken into consideration. If
that is the case, monitoring wells don't need to be included. This may be
a moot point since it appears that NRC requires an estimate for all wells
in the first mine unit. However, I just want to make sure I'm properly
informing Powertech.

Let me know if the barrage of questions is overwhelming and I'll start
saving them up.

Thank you,
Patsy

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Hi Patsy, I have been besieged with deadlines & have been working at home
this week to catch up. I will give you better answers to all your
questions, but it will probably be next week. Will that be OK? Thanks!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Hi Valois,
I understand; I'm in the same boat. I'll consolidate any other questions
for now. I'm talking with Kaci today; perhaps she already asked some of
these questions. If so, I'll let you know.
Good luck!
Thanks,
Patsy

_____

From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Wed 7/23/2008 10:03 AM
To: Patsy Moran
Subject: Re: Another financial question-injection wells

Hi Patsy, I have been besieged with deadlines & have been working at home
this week to catch up. I will give you better answers to all your
questions, but it will probably be next week. Will that be OK? Thanks!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Hi Valois,

I'm glad to hear you'll be calling Rich by the end of the week. Here are the P&A cost estimates from Moore Ranch and Lost Creek that we discussed. I look forward to seeing the updated permit application checklist and AEB/AOR guidance document.

Thank you,

Patsy - Lost Creek P&A cost.pdf - Moore Ranch P&A cost.pdf

2 ATTACHMENTS:
1)Lost Creek P&A cost.pdf
2)Moore Ranch P&A cost.pdf
vrs

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Hi Patsy, Please do not be dismayed if the permit application you have
prepared does not look exactly like the descriptions for attachments and
checklist for figures. I consider review of your permit application to be
a test for these draft documents to see how they hold up in reference to
reality. Also I included the answers to your questions that we discussed
over the phone. Please let me know if there is any discrepancy. Thanks!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741 - Class III Permit App Checklist.doc - Class III Permit
App Attachments.doc - Questions from Patsy to Answer.doc

3 ATTACHMENTS:
1) Class III Permit App Checklist.doc
2) Class III Permit App Attachments.doc
3) Questions from Patsy to Answer.doc
vrs

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I had meant to fix this part, too. I thought I had, but it was the
stimulation program I was thinking of. How does this sound? I didn't want
to get too specific about what the tests should be - is that OK?

I. FORMATION TESTING PROGRAM – For the purpose of a Class III ISL operation, formation testing should be designed to provide information about geohydrologic properties of the mining zone and the confining zones pertinent to the mining operation and physical and chemical characteristics of the formation fluids. Describe the proposed formation testing program, including aquifer pump tests and any other types of tests conducted. Include calculations for fracture pressures of the mining zone and confining zones. A calculated value will be adequate in this case, because injection pressure during mining or restoration should never be near fracture pressure of the mining zone or the confining zones.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Amy, Thanks very much for the update!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Amy Thurlkill" <athurlkill@powertechuranium.com>
09/16/2008 05:15 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc
        <rblubaugh@powertechuranium.com>
        Subject
        Re: phone discussion on Geology and Pump Test

Valois,

We have a narrative draft under in-house review; we are waiting on some
figures from our geologist.
We will send you a copy of the geology report as soon as it is complete.

The pump test has not been scheduled. We will know more about the
scheduling in a couple of weeks.
We do realize you need to schedule your availability and we will let you
know the date and time as soon as we know.

Thank you for your patients concerning these matters,
Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub12.rtp.epa.gov (Lotus Domino Release 8.0.1)   with ESMTP id
2008091710593581-805323 ;   Wed, 17 Sep 2008 10:59:35 -0400
Received: by mintra02.rtp.epa.gov (Postfix)   id 1A867442D3; Wed, 17 Sep 2008
10:59:02 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 0F5DB44401   for
<Shea.Valois@epamail.epa.gov>; Wed, 17 Sep 2008 10:59:02 -0400 (EDT)
Received: from mseive01.rtp.epa.gov (mseive01.rtp.epa.gov [134.67.221.149]) by
mintra02.rtp.epa.gov (Postfix) with ESMTP id EA820442D3   for
<Shea.Valois@epamail.epa.gov>; Wed, 17 Sep 2008 10:59:01 -0400 (EDT)
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localhost (Postfix) with SMTP id DE38744418   for
<Shea.Valois@epamail.epa.gov>; Wed, 17 Sep 2008 10:59:01 -0400 (EDT)
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mseive01.rtp.epa.gov (Postfix) with ESMTP id 12AC5443FA   for
<Shea.Valois@epamail.epa.gov>; Wed, 17 Sep 2008 10:59:00 -0400 (EDT)
X_IronPort_Anti_Spam_Filtered: true
X_IronPort_Anti_Spam_Result: ApsEAOe30EhKB7nO/2dsb2JhbACMQqVKCYZmAWl9
X_Ironport_AV: E=Sophos;i="4.32,416,1217822400";   d="scan'208";a="92696469"
Received: from unknown (HELO DTCL012AT) ([74.7.185.206]) by mx.cbeyond.com
with ESMTP; 17 Sep 2008 10:58:58 -0400
From: "Amy Thurlkill" <athurlkill@powertechuranium.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
References: <00ca01c91852$100863e0$30192ba0$@com> <OF3187C26B.A7AA38EA-
ON872574C7.0050CCA5-872574C7.0050D328@epamail.epa.gov>
In_Reply_To: <OF3187C26B.A7AA38EA-ON872574C7.0050CCA5-
872574C7.0050D328@epamail.epa.gov>
Subject: RE: phone discussion on Geology and Pump Test
PostedDate: 09/17/2008 08:52:05 AM
$MessageID: <002101c918d4$f3884fe0$da98efa0$@com>
MIME_Version: 1.0
$Mailer: Microsoft Office Outlook 12.0
Thread_Index: AckY06yehyblKyu9TAWVp97gQShQqwAAQQlA
X_PMX_Version: 5.4.2.338381, Antispam-Engine: 2.6.0.325393, Antispam-Data:
2008.9.17.144321
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='BODY_SIZE_2000_2999 0,
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__FRAUD_419_CONTACT_NUM 0, __HAS_MSGID 0, __HAS_X_MAILER 0, __MIME_TEXT_ONLY 0,
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$MIMETrack: Itemize by SMTP Server on EPAHUB12/USEPA/US(Release 8.0.1|February
07, 2008) at 09/17/2008 10:59:35 AM,MIME-CD by Notes Client on Valois
Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:26
AM,MIME-CD complete at 03/23/2009 08:42:26 AM
$INetOrig: 17AD91E3345633FD5AB9BD206511305B
INetSendTo: Shea.Valois@epamail.epa.gov
$Created: 09/17/2008 08:52:05 AM
INetFrom: .
SMTPOriginator: athurlkill@powertechuranium.com
RouteServers: CN=EPAHUB12/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 09/17/2008 08:59:35 AM-09/17/2008 09:47:32 AM,09/17/2008 09:47:32
AM-09/17/2008 09:47:34 AM
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RoutingState:

$UpdatedBy: ,CN=EPAHUB12/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
Categories:
$Revisions:
DeliveredDate: 09/17/2008 09:47:34 AM
$MiniView:

Sorry I could not be of more help,
Items are moving through the checks and balances here as soon as Richard or
myself have the information we will be sharing.
Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Wednesday, September 17, 2008 8:43 AM
To: Amy Thurlkill
Subject: Re: phone discussion on Geology and Pump Test

Amy, Thanks very much for the update!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Amy Thurlkill"
<athurlkill@powe
rtechuranium.com   To
>   Valois Shea/P2/R8/USEPA/US@EPA
                                                        cc
09/16/2008 05:15   <rblubaugh@powertechuranium.com>
PM   Subject
Re: phone discussion on Geology
and Pump Test

(Embedded image moved to file: pic12382.jpg) Valois,

We have a narrative draft under in-house review; we are waiting on some
figures from our geologist.
We will send you a copy of the geology report as soon as it is complete.

The pump test has not been scheduled. We will know more about the
scheduling
in a couple of weeks..
We do realize you need to schedule your availability and we will let you
know the date and time as soon as we know.

Thank you for your patients concerning these matters, Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail:. athurlkill@powertechuranium.com (Embedded image moved to file:
pic17421.jpg)MPj04372190000[1]

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
epahub11.rtp.epa.gov (Lotus Domino Release 8.0.1)   with ESMTP id
2008100913525335-230265 ;   Thu, 9 Oct 2008 13:52:53 -0400
Received: by mintra02.rtp.epa.gov (Postfix)   id 51B3544362; Thu, 9 Oct 2008
13:52:48 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra02.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 471D044479   for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 13:52:48 -0400 (EDT)
Received: from mseive01.rtp.epa.gov (mseive01.rtp.epa.gov [134.67.221.149]) by
mintra02.rtp.epa.gov (Postfix) with ESMTP id 308FD44362   for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 13:52:48 -0400 (EDT)
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localhost (Postfix) with SMTP id 2756944484   for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 13:52:48 -0400 (EDT)
Received: from WA4EHSOBE002.bigfish.com (outbound-wa4.frontbridge.com
[216.32.181.16]) by mseive01.rtp.epa.gov (Postfix) with ESMTP id 98E08444A0
     for <Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 13:52:44 -0400 (EDT)
Received: from mail108-wa4-R.bigfish.com (10.8.14.246) by
WA4EHSOBE002.bigfish.com (10.8.40.22) with Microsoft SMTP Server id 8.1.240.5;
Thu, 9 Oct 2008 17:52:43 +0000
Received: from mail108-wa4 (localhost.localdomain [127.0.0.1])   by mail108-
wa4-R.bigfish.com (Postfix) with ESMTP id 2466A175846C   for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 17:52:43 +0000 (UTC)
X_BigFish: VS-33(zz14c3Ma0dJaf6Wf67M18c1Kzzzzf14N24b1kz2dh6bh61h)
X_Spam_TCS_SCL: 0:0
X_FB_SS: 5,5,
Received: by mail108-wa4 (MessageSwitch) id 1223574761282939_3999; Thu, 9 Oct
2008 17:52:41 +0000 (UCT)
Received: from mail4.ttemi.com (mail4.ttemi.com [38.223.230.28]) by mail108-
wa4.bigfish.com (Postfix) with ESMTP id 2E35F750056   for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 17:52:41 +0000 (UTC)
Received: from EMI-EVS2.ttemi.com ([10.12.1.65]) by mail4.ttemi.com with
Microsoft SMTPSVC(6.0.3790.3959);   Thu, 9 Oct 2008 10:51:47 -0700
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: Deep well injection costs question
PostedDate: 10/09/2008 11:54:55 AM
$MessageID: <9AC735BF86107444B22F1F3939BF8AD10134E336@EMI-EVS2.ttemi.com>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Deep well injection costs question
Thread_Index: AckqOCNZFWmarNdtSIq8ofgQVzzClg==
From: "Moran, Patsy" <Patsy.Moran@tetratech.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_OriginalArrivalTime: 09 Oct 2008 17:51:47.0784 (UTC)
FILETIME=[B3615C80:01C92A37]
X_PMX_Version: 5.4.2.338381, Antispam-Engine: 2.6.0.325393, Antispam-Data:
2008.10.9.173107
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_50_70 0.1,
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0, __TAG_EXISTS_HTML 0'
$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 8.0.1|February
07, 2008) at 10/09/2008 01:52:53 PM,MIME-CD by Notes Client on Valois

Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:26
AM,MIME-CD complete at 03/23/2009 08:42:26 AM
$INetOrig: F7A2E16D5BE8FCBB8FBAAD967F76B2B0
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$Created: 10/09/2008 11:54:55 AM
INetFrom: .
SMTPOriginator: Patsy.Moran@tetratech.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 10/09/2008 11:52:53 AM-10/09/2008 11:52:54 AM,10/09/2008 11:52:49
AM-10/09/2008 11:52:50 AM
$Orig: A64D726D579A0B66852574DD006239D7
RoutingState:
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Categories:
$Revisions:
DeliveredDate: 10/09/2008 11:52:50 AM
$MiniView:
$PaperColor: 1

Hi Valois,
Do you every get costs for actually installing a Class I deep well
injection well (for example at a uranium ISR site)?

Is that information publically available?

Is there any chance you can send me some permit applications/permits that
are publicly available or point me in the right direction?

I'm looking at Region 9 documents now.

I appreciate your help.

Thank you,
Patsy

Patsy Moran, Ph.D. │ Geochemist
Main: 303.217.5700 │ Direct: 720.881.5815 │ Fax: 303.217.5705
Patsy.Moran@tetratech.com

Tetra Tech │ Complex World, Clear Solutions™
350 Indiana Street, Suite 500 │ Golden, CO 80401 │ www.tetratech.com

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delete it from your system.

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
epahub11.rtp.epa.gov (Lotus Domino Release 8.0.1)   with ESMTP id
2008100917184301-270479 ;   Thu, 9 Oct 2008 17:18:43 -0400
Received: by mintra01.rtp.epa.gov (Postfix)   id 20B0444441; Thu, 9 Oct 2008
17:18:38 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra01.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
localhost (Postfix) with SMTP id 15BD2445E9   for
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[216.32.180.16]) by mseive02.rtp.epa.gov (Postfix) with ESMTP id 3EBF2254004
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VA3EHSOBE006.bigfish.com (10.7.40.26) with Microsoft SMTP Server id 8.1.240.5;
Thu, 9 Oct 2008 21:18:37 +0000
Received: from mail126-va3 (localhost.localdomain [127.0.0.1])   by mail126-
va3-R.bigfish.com (Postfix) with ESMTP id CA0F910619 for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 21:18:36 +0000 (UTC)
X_BigFish: VS-31(zz14c3Ma0dJaf6W18c1K103dKzzzzf14N24b1kz2dh6bh62h)
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X_FB_SS: 5,
Received: by mail126-va3 (MessageSwitch) id 122358711577132_30165; Thu, 9 Oct
2008 21:18:35 +0000 (UCT)
Received: from mail6.ttemi.com (H25-N038223230.ttemi.com [38.223.230.25])   by
mail126-va3.bigfish.com (Postfix) with ESMTP id CAEFE518068 for
<Shea.Valois@epamail.epa.gov>; Thu, 9 Oct 2008 21:18:34 +0000 (UTC)
Received: from EMI-EVS2.ttemi.com ([10.12.1.65]) by mail6.ttemi.com with
Microsoft SMTPSVC(6.0.3790.3959);   Thu, 9 Oct 2008 14:17:40 -0700
X_MIMEOLE: Produced By Microsoft Exchange V6.5
MIME_Version: 1.0
Subject: Talking a bit about Class 1 Wells?
PostedDate: 10/09/2008 03:20:49 PM
$MessageID: <9AC735BF86107444B22F1F3939BF8AD10134E565@EMI-EVS2.ttemi.com>
X_MS_Has_Attach:
X_MS_TNEF_Correlator:
Thread_Topic: Talking a bit about Class 1 Wells?
Thread_Index: AckqVOaaI1/qtJ0vRWaEGk1CnM3p3A==
From: "Moran, Patsy" <Patsy.Moran@tetratech.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
X_OriginalArrivalTime: 09 Oct 2008 21:17:40.0860 (UTC)
FILETIME=[76632BC0:01C92A54]
X_PMX_Version: 5.4.2.338381, Antispam-Engine: 2.6.0.325393, Antispam-Data:
2008.10.9.193445
X_PerlMx_Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_50_70 0.1,
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0, __CT 0, __CTYPE_HAS_BOUNDARY 0, __CTYPE_MULTIPART 0, __CTYPE_MULTIPART_ALT 0,
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$MIMETrack: Itemize by SMTP Server on EPAHUB11/USEPA/US(Release 8.0.1|February
07, 2008) at 10/09/2008 05:18:43 PM,MIME-CD by Notes Client on Valois

Shea/R8/USEPA/US(Release 7.0.3|September 26, 2007) at 03/23/2009 08:42:26
AM,MIME-CD complete at 03/23/2009 08:42:26 AM
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$Created: 10/09/2008 03:20:49 PM
INetFrom: .
SMTPOriginator: Patsy.Moran@tetratech.com
RouteServers: CN=EPAHUB11/O=USEPA/C=US,CN=R8MAIL2/OU=R8/O=USEPA/C=US
RouteTimes: 10/09/2008 03:18:43 PM-10/09/2008 03:18:44 PM,10/09/2008 03:18:39
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Categories:
$Revisions: 10/09/2008 03:18:39 PM
DeliveredDate: 10/09/2008 03:18:40 PM
$MiniView:
$RespondedTo: 1
$PaperColor: 1

Hi Valois,
It might be more useful to have a conversation with you about Class 1
wells, well testing etc. What are the chances you can make time for this
is the next few business days?
Sorry, perhaps you thought you got rid of me?
Thanks!
Patsy

Patsy Moran, Ph.D. | Geochemist
Main: 303.217.5700 | Direct: 720.881.5815 | Fax: 303.217.5705
Patsy.Moran@tetratech.com

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delete it from your system.

Received: from mintra01.rtp.epa.gov ([134.67.221.153])   by
epahub11.rtp.epa.gov (Lotus Domino Release 8.0.1)   with ESMTP id
2008101612531076-252338 ;   Thu, 16 Oct 2008 12:53:10 -0400
Received: by mintra01.rtp.epa.gov (Postfix)   id CF63E44577; Thu, 16 Oct 2008
12:53:02 -0400 (EDT)
Delivered_to: shea.valois@epamail.epa.gov
Received: from mintra01.rtp.epa.gov (localhost.localdomain [127.0.0.1])   by
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<Shea.Valois@epamail.epa.gov>; Thu, 16 Oct 2008 12:53:02 -0400 (EDT)
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[65.39.136.68])   by mseive01.rtp.epa.gov (Postfix) with ESMTP id B24814451A
      for <Shea.Valois@epamail.epa.gov>; Thu, 16 Oct 2008 12:53:00 -0400 (EDT)
Received: from richardlt [74.7.185.206] by mail.powertechuranium.com with ESMTP
(SMTPD32-8.15) id A1647203D4; Thu, 16 Oct 2008 09:52:52 -0700
From: "Richard Blubaugh" <rblubaugh@powertechuranium.com>
SendTo: Valois Shea/P2/R8/USEPA/US@EPA
CopyTo: "'John Mays'" <jmays@powertechuranium.com>
References: <69FE65937617459CBA2AD54DACFD0E15@powertech.local>
<OF8FF1D1F0.06D6E132-ON872574E4.0059FE91-872574E4.005A3579@epamail.epa.gov>
Subject: RE: RE Dewey Burdock meeting
PostedDate: 10/16/2008 10:52:27 AM
$MessageID: <B0550CBC2DCE417FBB758BFE9D85811F@powertech.local>
MIME_Version: 1.0
$Mailer: Microsoft Office Outlook 11
Thread_Index: Ackvq8sX/9tXu8JrTn2VFZPVsr9rMwAA4D0g
X_MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
In_Reply_To: <OF8FF1D1F0.06D6E132-ON872574E4.0059FE91-
872574E4.005A3579@epamail.epa.gov>
X_Declude_Sender: rblubaugh@powertechuranium.com [74.7.185.206]
X_Declude_Spoolname: D7164007203d4f6a0.smd
X_Declude_RefID:
X_Declude_Note: Scanned by Declude 4.4.20 "http://www.declude.com/x-note.htm"
X_Declude_Scan: Incoming Score [0] at 09:52:57 on 16 Oct 2008
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X_Declude_Code: 0
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X_Identity: 74.7.185.206 | | powertechuranium.com
X_Note: incoming, from rblubaugh@powertechuranium.com via to
jmays@powertechuranium.com, rblubaugh@powertechuranium.com,
rfclement@powertechuranium.com, Shea.Valois@epamail.epa.gov, 16 Oct 2008
09:52:57 PT, D7164007203d4f6a0.smd, 0u, Whitelisted
X_PMX_Version: 5.4.2.338381, Antispam-Engine: 2.6.0.325393, Antispam-Data:
2008.10.16.163114
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$RespondedTo: 1

Hello Valois,

Yes, thank you. I will suggest 2:00p.m., but you can let me know what time
works best for you and we will be there. Powertech will be represented by
John Mays and myself.

Richard

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From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, October 16, 2008 10:25 AM
To: Richard Blubaugh
Subject: RE Dewey Burdock meeting

Would some time tomorrow afternoon work for you?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Richard
Blubaugh"
<rblubaugh@power   To
techuranium.com>   Valois Shea/P2/R8/USEPA/US@EPA
cc
10/16/2008 09:25
AM   Subject
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techuranium.com>   Valois Shea/P2/R8/USEPA/US@EPA
                                                        cc
10/09/2008 08:07   <athurlkill@powertechuranium.com>
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Denver, CO 80202-1129
phone: 303-312-6276
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```

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phone: 303-312-6276
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"Richard Blubaugh" <rblubaugh@powertechuranium.com>
10/16/2008 10:52 AM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc
        "'John Mays'" <jmays@powertechuranium.com>
        Subject
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        "Richard

```
        Blubaugh"
        <rblubaugh@power                                    To
        techuranium.com>         Valois Shea/P2/R8/USEPA/US@EPA
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        10/16/2008 09:25
        AM                                               Subject
                                RE: presentation for GWPC meeting
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<Amy.Thurlkill@cotterusa.com>,"'Richard Clement'"
<rfclement@powertechuranium.com>,<mhollenbeck@powertechuranium.com>,<jbonner@pow
ertechuranium.com>,<flichnovsky@powertechuranium.com>,<wmmi@aol.com>,"'Paul
Bergstrom'" <pbergstrom@knightpiesold.com>
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mhollenbeck@powertechuranium.com, pbergstrom@knightpiesold.com,
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Valois,

Thank you for taking time out of your busy schedule to meet with John Mays and myself. Your attention to our proposed aquifer exemption concepts for the Dewey-Burdock project is very much appreciated. We will proceed with the UIC permit application using the large area exemption approach. Also, as
discussed, we will propose an excursion control procedure that allows for some specified period of time to determine the success of bringing any lixiviant indicators back into the production area prior to installing any "excursion response wells." Your comments regarding testing the integrity of wells that penetrate the Inyan Kara aquifer are receiving immediate attention. Also, as requested, we will arrange a follow-up meeting to discuss the Dewey-Burdock geology in more detail.
Again, thank you for meeting with us today.

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"Richard
Blubaugh"
<rblubaugh@power                                     To
techuranium.com>        Valois Shea/P2/R8/USEPA/US@EPA
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10/16/2008 10:52        "'John Mays'"
AM                      <jmays@powertechuranium.com>
                     Subject
RE: RE Dewey Burdock meeting
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"Richard
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<rblubaugh@power                                        To
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cc
10/09/2008 08:07          <athurlkill@powertechuranium.com>
AM                                            Subject
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```

Hi Richard,
I just wanted to clarify what I meant related to the integrity of wells
penetrating the Inyan Kara. It is only the water wells inside the Area of
Review that I wanted to call to your attention. I know that the injection,
extraction, and the monitoring wells will be addressed in the permit
application, and that you have a plan for them. Part of the Area of
Review process is to identify any pre-existing penetrations through the
confinement zones that might be possible breaches of confinement. John
mentioned that the wells Powertech constructed in the deeper aquifer to
replace the private wells in the uranium-bearing aquifer were pressure
tested to be sure the casing had integrity - so that is good. You
mentioned that the deeper Sundance aquifer is artesian - I had forgotten
that, so if there are any breaches in the confinement zones along outside
the well casing, the flow gradient would be out of the aquifer anyway.
That information also addresses the Area of Review process, especially if
the Sundance hydraulic head is greater than that of the Inyan Kara
aquifers. John also mentioned, too, that the clay-bearing nature of
confinement zones will act to seal off any open channels along well
casing. So all that is good info to include in the Area of Review section
of the permit application.   I wasn't sure I explained that very well at
the meeting, so I wanted to give it another try!

Also, could I have a copy of the excursion control procedure, once you
have it ready, for my team leaders and supervisor to review in advance of
the permit application, so I can give them a pre-briefing, please? That
may be what you were going to do anyway, but with all the sirens & fire
alarms & emergency vehicles, I was a little distracted and couldn't
remember for sure.
Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Richard Blubaugh" <rblubaugh@powertechuranium.com>
10/17/2008 04:03 PM

        To
        Valois Shea/P2/R8/USEPA/US@EPA
        cc
        "'John Mays'" <jmays@powertechuranium.com>, "'Amy Thurlkill'"
<Amy.Thurlkill@cotterusa.com>, "'Richard Clement'"
<rfclement@powertechuranium.com>, <mhollenbeck@powertechuranium.com>,
<jbonner@powertechuranium.com>, <flichnovsky@powertechuranium.com>,
<wmmi@aol.com>, "'Paul Bergstrom'" <pbergstrom@knightpiesold.com>
        Subject
        RE: RE Dewey Burdock meeting

Valois,

Thank you for taking time out of your busy schedule to meet with John Mays
and myself. Your attention to our proposed aquifer exemption concepts for
the Dewey-Burdock project is very much appreciated. We will proceed with
the UIC permit application using the large area exemption approach. Also,
as
discussed, we will propose an excursion control procedure that allows for
some specified period of time to determine the success of bringing any
lixiviant indicators back into the production area prior to installing any
"excursion response wells." Your comments regarding testing the integrity
of wells that penetrate the Inyan Kara aquifer are receiving immediate
attention. Also, as requested, we will arrange a follow-up meeting to
discuss the Dewey-Burdock geology in more detail.
Again, thank you for meeting with us today.

Richard

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, October 16, 2008 11:25 AM
To: Richard Blubaugh
Subject: RE: RE Dewey Burdock meeting

That sounds great! Thanks for offering to come here. I will set up a
conference room for 2:00 & meet you & John down in the lobby. See you
tomorrow!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

            "Richard
            Blubaugh"
            <rblubaugh@power   To
            techuranium.com>   Valois Shea/P2/R8/USEPA/US@EPA
                                                              cc
            10/16/2008 10:52   "'John Mays'"
            AM   <jmays@powertechuranium.com>
                                                         Subject
                                    RE: RE Dewey Burdock meeting

Hello Valois,

Yes, thank you. I will suggest 2:00p.m., but you can let me know what
time
works best for you and we will be there. Powertech will be represented
by
John Mays and myself.

Richard

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, October 16, 2008 10:25 AM
To: Richard Blubaugh
Subject: RE Dewey Burdock meeting

Would some time tomorrow afternoon work for you?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Richard		
Blubaugh"		
<rblubaugh@power		To
techuranium.com>	Valois Shea/P2/R8/USEPA/US@EPA	
		cc
10/16/2008 09:25		
AM		Subject
	RE: presentation for GWPC meeting	

Hello Valois,

I would prefer to meet with you while you are in town, between Oct. 16
and
Oct 23. It would not take long, nor would there be a lot of people,
probably just two of us. We are close to finishing up the Dewey-Burdock
UIC
application but would prefer to discuss a couple of items related to the

AEB
prior to submitting.
Let me know.

Best regards,
Richard

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Thursday, October 09, 2008 9:32 AM
To: Richard Blubaugh
Subject: RE: presentation for GWPC meeting

OK Thanks! I will be out till Oct 16, then out again until Oct 23.
Would the week of Oct 27 be too long to wait to get together to talk
about Dewey Burdock?
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

             "Richard
             Blubaugh"
             <rblubaugh@power   To
             techuranium.com>   Valois Shea/P2/R8/USEPA/US@EPA
                                                                       cc
             10/09/2008 08:07   <athurlkill@powertechuranium.com>
             AM   Subject
                                       RE: presentation for GWPC meeting

Valois,
I am in SD today and will be back in office tomorrow. I will see that
we make arrangements to get the geology to you asap. Also, I would like
to get together with you to review our thoughts on the Dewey-Burdock
AEB. It shouldn't take but about 30 minutes. You are welcome to visit
our office, or I will gladly meet at yours?

Actually, I thought Cincinnati was a nice place. The hotel was near
downtown and the river. Unfortunately, I had little time to enjoy it.
It was my first exposure to the GWPC and I thought it was an
organization we should participate in on a regular basis, particularly

if they increase focus on ISL.

Richard

From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Wednesday, October 08, 2008 9:15 AM:
To: Richard Blubaugh
Subject: RE: presentation for GWPC meeting

Hi Richard,
Thanks for copying me on your message. I didn't realize you went to
GWPC. That's great, although it is a bummer that it wasn't held some
place cool this time like San Diego or Annapolis, like it usually is!
May I get an estimated time of arrival for the preview of geology info
for the permit application & the aquifer test at Centennial when you
have a moment, please?

Our very persistent consultant on the hydrologic modeling contract
thoughtfully checks in with me every week, so I thought I would ask this
in anticipation of his call!
Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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SendTo: Valois Shea/P2/R8/USEPA/US@EPA
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Hi Valois,
I'm almost done with this cost estimate for a class I well (perhaps more
of a class V well since all casings are cemented) but I'm a bit confused
about wellheads and blowout protectors. Do you or your colleague that
works on class 1 wells have time to briefly talk with me on this subject.
If not, can you recommend someone that might have familiarity with this
topic. I don't need to tell them you sent me their way.
Thank you,
Patsy

Patsy Moran, Ph.D. | Geochemist
Main: 303.217.5700 | Direct: 720.881.5815 | Fax: 303.217.5705
Patsy.Moran@tetratech.com

Tetra Tech | Complex World, Clear Solutions™
350 Indiana Street, Suite 500 | Golden, CO 80401 | www.tetratech.com

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SendTo: Valois Shea/R8/USEPA/US@EPA
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Good Morning Valois,

Hope all is well with you and yours and hope that your Thanksgiving
Holiday was a great one.

We are getting really close to submittal of our application and need to
know how many copies to print up for the EPA administrative review. If
you could send me this number sometime today, It will help me prepare the
printing job.

Thank you so much,

Amy

Amy L. Thurlkill

E.H.S. Manager; RSO - Corporate

Powertech (USA) Inc.

PWE:TSX

5575 DTC Parkway Suite #140

Greenwood Village, CO 80111

www.powertechuranium.com

Tel:303.790.7528

Cell: 361.318.1622

Fax:303.790.3885

E-mail: athurlkill@powertechuranium.com

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Hi Amy,
I have been thinking about the answer, but no one else is around today for
me to consult. But just now talking to Richard on the phone I think I
arrived at an answer. We would like 1 hard copy with all the confidential
business information excluded. This will be for public review. Then 1
hard copy with the CBI included for our review. We can all share that
copy. Then one electronic copy of the complete application. I did not
request an electronic copy without the CBI when I talked with Richard, but
can we get that, too? Then we can have it available for public review.

Just to clarify: The applications will not be available for public review
until the Draft Permit is completed and sent out for public review &
comment. So the permit application will not be available for public review
before that time unless we get a Freedom of Information Act request.
Thanks!
_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Amy Thurlkill" <athurlkill@powertechuranium.com>
12/05/2008 08:00 AM

        To
        Valois Shea/R8/USEPA/US@EPA
        cc
        <rblubaugh@powertechuranium.com>
        Subject
        Number of UIC Class III Application copies for EPA

Good Morning Valois,
Hope all is well with you and yours and hope that your Thanksgiving
Holiday was a great one.

We are getting really close to submittal of our application and need to
know how many copies to print up for the EPA administrative review. If
you could send me this number sometime today, It will help me prepare the
printing job.
Thank you so much,
Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate

```
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com
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<athurlkill@powertechuranium.com>,rblubaugh@powertechuranium.com
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Hi Amy & Richard,

I just sent a meeting notice to the people involved here for 9:30 - 11:00
Wednesday morning Dec 17th. The back-up would be that afternoon from 1:30
to 3:00. I will let you know as soon as I hear back from everyone. Have a
nice weekend!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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$MiniView:

Thank you for your suggestions about the meeting and the quick response to our inquiries.
Have a great weekend!
Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, December 05, 2008 3:57 PM
To: Amy Thurlkill; rblubaugh@powertechuranium.com
Subject: possible meeting date/time

Hi Amy & Richard,

I just sent a meeting notice to the people involved here for 9:30 -
11:00 Wednesday morning Dec 17th. The back-up would be that afternoon
from 1:30 to 3:00. I will let you know as soon as I hear back from
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_____
Valois Shea
US EPA Region 8
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phone: 303-312-6276
fax: 303-312-6741

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From: "Amy Thurlkill" <athurlkill@powertechuranium.com>
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CopyTo: <rblubaugh@powertechuranium.com>
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Valois,
Here is my understanding of what EPA needs in regards to UIC Application
submittal copies.
Please verify so I know we are sending correct number.

1 Hard Copy with Confidential Business Information Excluded
1 Hard Copy with Confidential Business Information Included
1 CD with Confidential Business Information Excluded
1 CD with Confidential Business Information Included
Thank you so much,
Amy

Amy L. Thurlkill
E.H.S. Manager; RSO - Corporate
Powertech (USA) Inc.
PWE:TSX
5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, December 05, 2008 3:49 PM
To: Amy Thurlkill
Cc: rblubaugh@powertechuranium.com
Subject: Re: Number of UIC Class III Application copies for EPA

Hi Amy,
I have been thinking about the answer, but no one else is around today for
me to consult. But just now talking to Richard on the phone I think I
arrived at an answer. We would like 1 hard copy with all the confidential
business information excluded. This will be for public review. Then 1 hard
copy with the CBI included for our review. We can all share that copy.
Then
one electronic copy of the complete application. I did not request an
electronic copy without the CBI when I talked with Richard, but can we get
that, too? Then we can have it available for public review.

Just to clarify: The applications will not be available for public review
until the Draft Permit is completed and sent out for public review &
comment. So the permit application will not be available for public review
before that time unless we get a Freedom of Information Act request.

Thanks!

_____

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8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Amy Thurlkill"
<athurlkill@powe
rtechuranium.com   To
>   Valois Shea/R8/USEPA/US@EPA
                                                    cc
12/05/2008 08:00   <rblubaugh@powertechuranium.com>
AM   Subject
Number of UIC Class III
Application copies for EPA

(Embedded image moved to file: pic20609.jpg) Good Morning Valois, Hope all
is well with you and yours and hope that your Thanksgiving Holiday was a
great one.

We are getting really close to submittal of our application and need to
know
how many copies to print up for the EPA administrative review. If you
could
send me this number sometime today, It will help me prepare the printing
job.
Thank you so much,
Amy

Amy L. Thurlkill
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5575 DTC Parkway Suite #140
Greenwood Village, CO 80111
www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
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InheritedAltFrom:  "Amy Thurlkill" <athurlkill@powertechuranium.com>
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CopyTo:  rblubaugh@powertechuranium.com
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Yes. That is it.

Just FYI, I just got a call from a guy named Ray Johnson with USGS who
works with the energy resources (or something like that) group in Denver
that is interested in doing some modeling of restoration at uranium ISL
sites. I am going to meet with him on Wed Dec 10 to find out more about
what they want to do. They seem to have their own funding & would be
looking for a field site & data sharing. They have a PhD student lined
up. I am pretty excited about it! It is still in the preliminary stages
at this point, but the timing sounds like it might be good for Centennial.

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

"Amy Thurlkill" <athurlkill@powertechuranium.com>
12/05/2008 04:10 PM

        To
        Valois Shea/R8/USEPA/US@EPA
        cc
        <rblubaugh@powertechuranium.com>
        Subject
        RE: Number of UIC Class III Application copies for EPA

Valois,
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Please verify so I know we are sending correct number.

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1 Hard Copy with Confidential Business Information Included
1 CD with Confidential Business Information Excluded
1 CD with Confidential Business Information Included
Thank you so much,
Amy

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Cell: 361.318.1622
Fax:303.790.3885
E-mail: athurlkill@powertechuranium.com

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, December 05, 2008 3:49 PM
To: Amy Thurlkill
Cc: rblubaugh@powertechuranium.com
Subject: Re: Number of UIC Class III Application copies for EPA

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Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

                   "Amy Thurlkill"
                   <athurlkill@powe
                   rtechuranium.com   To
                   >   Valois Shea/R8/USEPA/US@EPA
                                                                      cc
                   12/05/2008 08:00   <rblubaugh@powertechuranium.com>
                   AM   Subject
                                       Number of UIC Class III
                                       Application copies for EPA

(Embedded image moved to file: pic20609.jpg) Good Morning Valois, Hope all
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Amy

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www.powertechuranium.com
Tel:303.790.7528
Cell: 361.318.1622
Fax:303.790.3885
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Hi Richard,
We have the Aspen Room in the 2nd floor conference center for our meeting
on Wednesday, Dec 17 from 12:30 - 2:00. We will have Wendy Cheung, Douglas
Minter (UIC teamleader), Steven Pratt (my supervisor) & me at the meeting.
Douglas & Steve will have to leave at 2:00, but Wendy & I can stay longer
if needed. Please let me know who will be attending from your side so I
can let the front desk know. I think they like to have the list of names,
as well as the number of people, if 5 or more people will be coming.
Thanks very much! I look forward to hearing about the upcoming adventure!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

Received: from mintra02.rtp.epa.gov ([134.67.221.154])   by
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(SMTPD32-8.15) id ADF531703EE; Fri, 12 Dec 2008 09:23:01 -0800
From: "Richard Blubaugh" <rblubaugh@powertechuranium.com>
SendTo: Valois Shea/R8/USEPA/US@EPA
CopyTo: <wmmi@aol.com>,<jmays@powertechuranium.com>,"'Mark Hollenbeck'"
<mhollenbeck@powertechuranium.com>,<athurlkill@powertechuranium.com>
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<OF4A0D375B.C816F23F-ON8725751D.005B94F4-8725751D.005D2C7F@epamail.epa.gov>
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athurlkill@powertechuranium.com, jmays@powertechuranium.com,
mhollenbeck@powertechuranium.com, rblubaugh@powertechuranium.com,
Shea.Valois@epamail.epa.gov, wmmi@aol.com, 12 Dec 2008 09:23:08 PT,
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Valois,

Thank you so much for arranging the meeting next Wednesday. This confirms
our intent to be at EPA's offices Dec. 17 at 12:30 p.m.

Those likely to attend include:

Wallace Mays
John Mays
Mark Hollenbeck
Richard Blubaugh
Amy Thurlkill

I will let you know by email next week if the names or number of attendees
differ from that shown.

Again, thank you for your cooperation in providing us this opportunity to
meet with you and discuss our Dewey-Burdock Project.

Richard

-----Original Message-----
From: Shea.Valois@epamail.epa.gov [mailto:Shea.Valois@epamail.epa.gov]
Sent: Friday, December 12, 2008 9:59 AM
To: Richard Blubaugh
Subject: Meeting to discuss Dewey Burdock permit application

Hi Richard,
We have the Aspen Room in the 2nd floor conference center for our
meeting on Wednesday, Dec 17 from 12:30 - 2:00. We will have Wendy
Cheung, Douglas Minter (UIC teamleader), Steven Pratt (my supervisor) &
me at the meeting. Douglas & Steve will have to leave at 2:00, but Wendy
& I can stay longer if needed. Please let me know who will be attending

from your side so I can let the front desk know. I think they like to
have the list of names, as well as the number of people, if 5 or more
people will be coming.
Thanks very much! I look forward to hearing about the upcoming
adventure!

_____
Valois Shea
US EPA Region 8
8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741

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Hello Richard,
I looked over the table of contents for the permit application and
compared it with my checklist - it looks very thorough.
 Big
Wendy mentioned one thing to ask of you - if you could make sure the
wording in the permit application reflects that the estimated aquifer
travel time of 10 feet per day is based on site-specific information
taking into account the induced gradient created by the injection and
recovery wells, that would be really helpful. When Wallace was talking
about the aquifer travel time at the meeting, he described it in that
context, and Wendy thought that was an important distinction to make. We
are trying to keep the guidance from being based on arbitrary numbers.
I will give you a call when I get in the office this afternoon to explain
our reasoning better.
Thanks!

_____
Valois Shea
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1595 Wynkoop Street
Denver, CO 80202-1129
phone: 303-312-6276
fax: 303-312-6741