



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

**Responsiveness Summary to Public Comment  
For  
The Issuance of Underground Injection Control (UIC) Permits  
For  
Bear Lake Properties, LLC**

On January 10, 2011, the U.S. Environmental Protection Agency (EPA) Region III issued a public notice requesting comment and the opportunity for a public hearing for the proposed issuance of two Underground Injection Control (UIC) permits, PAS2D215BWAR and PAS2D216BWAR, for Bear Lake Properties, LLC. EPA received numerous requests to hold this hearing, but the hearing, scheduled for February 23, 2011, was postponed since EPA was unable to arrange for stenographic support in time for the hearing. EPA subsequently issued another public notice rescheduling the public hearing for March 23, 2011. On March 23, 2011, EPA held a public hearing at the Columbus Township Social Hall in Columbus, Pennsylvania. Over 200 people attended this public hearing and EPA received oral comments from 19 people in attendance at the hearing. EPA also extended the public comment period until March 30, 2011, during the hearing, inviting any additional written comments.

The responsiveness summary which follows provides answers to questions raised from over 350 people who either sent written public comment to the attention of EPA Region III, or who provided comments at the hearing. EPA wishes to thank the commenters for their informative and thoughtful comments and to thank the people from Columbus Township who assisted EPA in hosting the public hearing.

**1) EPA's jurisdiction and authority**

Many people raised concerns which the EPA UIC program does not have the regulatory jurisdiction to address. These included the potential for increased truck traffic, the potential for damage to the roads, increased noise, protection of wildlife, the protection of worker safety and the operator's development of health and safety plans and storm water management plans, among others. When making the decision whether to issue UIC permits for Bear Lake Properties, EPA's jurisdiction rests solely in determining whether the proposed injection operation will safely protect underground sources of drinking water (USDWs) (i.e., aquifer systems containing less than 10,000 milligrams per liter total dissolved solids). Although these other concerns may be relevant, they cannot be addressed within a UIC permit. The public would need to seek assistance through local Columbus Township or Warren County ordinances for traffic, road and noise concerns and state or federal agencies for concerns regarding wildlife protection, storm water management or health and safety.

It is important to note that every UIC permit, that EPA Region III issues, contains several conditions that require the permittee to meet all other local, state or federal laws that are in place. Part I. A. of the proposed permit contains a clause that states, " Issuance of this permit does not convey property rights or mineral rights of any sort of any exclusive privilege; nor does it

authorize any injury to persons or property, an invasion of other property rights or any infringement of State or local law or regulations". In addition, Part I. D. 12 of the proposed permit indicates, "Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation". Therefore, EPA's UIC permit is only one of several authorizations that a permittee may be required to obtain before they are allowed to commence operation.

**2) EPA should require the operator to find another location for disposal**

Similar to the response above, EPA does not have the jurisdiction, to direct an operator to a particular geographic location. The location chosen by an operator is based on many factors: economics, property ownership, geologic suitability, etc. It is EPA's responsibility to review each UIC permit application it receives and make a determination as to whether USDWs will be protected from the proposed operation, not to identify suitable injection sites.

**3) Other possible disposal alternatives and other technologies available for the treatment of produced fluid**

EPA acknowledges that there are other alternatives for the disposal of produced fluid from oil and gas development as well as wastewater treatment technologies available for the treatment of produced fluid. Even though other disposal alternatives may exist and wastewater treatment technologies are available, the UIC program must determine whether underground injection can be implemented in a manner protective of USDWs. If underground injection is done in accordance with the UIC program requirements, it is one of the best alternatives available for the disposal of fluids produced in association with oil and gas production activities. EPA cannot deny an operator a UIC permit because other disposal alternatives or treatment technologies exist.

**4) Is this proposed injection activity in an earthquake prone area?**

EPA has no evidence the location proposed for this injection operation is located in an earthquake prone area. Evidence indicates that there are no deep-seated transmissive faults that intersect the proposed injection zone or that could be influenced by the proposed injection operation in the future. It is important to keep in mind that the reservoir proposed for injection, the Medina Formation, produced, and continues to produce, natural gas. Over the past three decades, natural gas has been removed from the pore space within this reservoir, depleting the formation of much of the natural gas it contained as well as reducing the formation's reservoir pressure. Earthquakes can occur when a geologic formation becomes under-pressurized (i.e., through geologic formation collapse causing the structure of the formation to shift) or when it becomes over-pressurized. The Medina Formation in this location is presently under-pressurized from decades of natural gas production and there has been no evidence of earthquakes due to the removal of this natural gas. In addition, the proposed injection operation will not over-pressurize the formation. Because of the removal of millions of cubic feet of natural gas, pore space has been created to accept the injection of fluid. The permits would also be conditioned to prevent the over-pressurization, or fracturing, of the formation.



### **5) Are the fluids being injected toxic, hazardous and/or radioactive?**

Individual constituents within the fluid produced from an oil or gas production reservoir, or from the return flow of fluid used in a hydraulic fracturing process, can be determined to be toxic, hazardous or radioactive. However, these fluids when produced in association with oil and gas production are exempt from the hazardous waste regulation by Congress and are not classified as hazardous under the Resource Conservation and Recovery Act. Therefore, the UIC program does not regulate fluids produced in association with oil and gas production activities as hazardous waste. Disposal of these fluids is permissible down a Class II brine disposal injection well. Commenters raised the issue that the disposal of these fluids underground is not safe. However, a counterpoint to this comment, made by another commenter, indicated that the injection of these fluids deep underground is safer than allowing them to be discharged into a stream or a river or allowing them to overflow or seep into the ground from above-ground containment pits.

One of the major reasons behind the development of the UIC regulations was to provide a regulated alternative whereby oil and gas related fluids could be safely managed. Hazardous waste produced by the petrochemical industry, as well as other industries, has been safely injected underground since the UIC regulations went into effect in the early 1980's. These fluids are injected down Class I hazardous waste injection wells below the lowermost USDW. The mandate of the UIC program is to protect USDWs from the subsurface emplacement of fluids. This has been accomplished through strict well construction criteria, the testing and inspection of injection well operations, monitoring and reporting requirements, and plugging and abandonment requirements. As mentioned in an earlier response, the UIC program provides one of the safest methods for the disposal of any kind of fluid as long as it is done under the requirements imposed by the UIC regulations.

### **6) Abandoned wells may pose a risk to drinking water supplies**

It is a fact that abandoned wells can pose a risk to USDWs by providing a conduit for the migration of fluid out of an injection zone. There are several requirements that the UIC regulations, as well as a UIC permit, impose on an operator to ensure that abandoned wells will not pose a risk to USDWs. The operator is required to conduct a review within a specified area around his proposed operation to determine whether any abandoned wells exist within that disposal area which could pose a threat to USDWs. The area of review can be a fixed radius of no less than one-quarter mile around an injection well or facility boundary (i.e., for an area permit) or may be a calculated "zone of endangering influence". The zone of endangering influence calculation is based on geologic parameters found in the injection zone, such as permeability, porosity, etc. and proposed operational conditions, such as injection volumes, rates, length of injection, etc. The operator must review all information of public record to determine whether any abandoned wells or other potential conduits exist within the area of review or zone of endangering influence, that penetrate the proposed injection zone, in this case, the Medina Formation. If abandoned wells are found to exist, then corrective action, in the form of plugging and abandonment of those wells, must be taken.

Bear Lake Properties chose to calculate the zone of endangering influence based on the simultaneous operation of both of the proposed injection wells. EPA conducted its own zone of endangering influence calculation to verify the calculation submitted by Bear Lake Properties and found the calculation acceptable. The only wells found that penetrate the Medina Formation, within the calculated zone of endangering influence, are production wells owned by Bear Lake Properties.



During the public hearing, commenters indicated to EPA that they did not think that all abandoned wells near the proposed injection site had been documented. It was unclear whether these wells might exist within the zone of endangering influence, outside of this area, or might be wells that do not penetrate the injection zone. EPA requested that Bear Lake Properties conduct another survey of the area surrounding the proposed injection operation, using information provided at the public hearing, to determine whether other abandoned wells did, in fact, exist. Public records, obtained by EPA subsequent to the public hearing, indicated no record of wells being drilled in the area of the proposed injection operation prior to the wells that are present today. The additional information and maps, submitted to EPA, provided information on all of the gas wells that are located within a two mile radius of the injection well site. This map confirmed the information submitted by Bear Lake Properties, that only gas production wells owned by Bear Lake Properties exist within the zone of endangering influence. The additional survey conducted by Bear Lake Properties indicated that only the Bittering #1 and Bittering #4 are contained within the area of review.

EPA has also required in the proposed permits monitoring of the fluid level in the injection zone during injection operations to ensure that pressure created by the injection operation will not cause migration of fluid up abandoned wells that could exist. By monitoring fluid level, and making sure that it remains safely below the lowermost USDW, then even if an abandoned well were to exist (i.e., a well that might have been drilled in the past without having information of public record), the monitoring would detect and prevent fluid migration into the lowermost USDW. EPA Region III has a permit condition in the proposed Bear Lake Properties permits that requires the fluid level to be monitored during the injection operation. Until the Bittering #1 or the Bittering #4 are placed into operation, they will be used to monitor the fluid level or formation pressure during injection to determine reservoir response and ensure protection of USDWs. The R. Trisket 2, located 0.34 miles to the west of Bittering #1 and the Smith/Raz Unit 1, located 0.40 miles to the east of Bittering #1 will also be used as monitoring wells during the Bittering #1's operation. During Bittering #4's operation, the R. Trisket 1, located 0.33 miles to the west of Bittering #4 and the Joseph Bittering 2, located 0.37 miles to the east of Bittering #4 will also be used as monitoring wells.

#### **7) Bear Lake Properties did not survey drinking water wells in New York State**

Written comments received by EPA as well as public testimony provided at the public hearing expressed concern that Bear Lake Properties did not adequately survey drinking water wells located in New York State. Subsequent to the public hearing, EPA requested that Bear Lake Properties conduct another survey of drinking water wells located within one mile of the proposed injection well facility. This one mile survey did include properties located in New York State. The revised survey map Bear Lake Properties provided to EPA, with GPS latitude/longitude locations, identified 10 private drinking water wells located in New York State, within one mile of the Bittering #4 well, the closest well to the New York/Pennsylvania state line.

#### **8) Bear Lake Properties' well construction standards and mechanical integrity testing are not adequate**

Many comments that EPA received indicated that the proposed injection wells were not constructed properly and that well testing requirements contained within the draft permits were also inadequate.

The comments received provided a review of the Pennsylvania Department of



Environmental Protection's (PADEP) well casing standards (PADEP Chapter 78 regulations on production wells) and compared those to the proposed construction of the Bittinger #1 and Bittinger #4 wells under the UIC program requirements. Examples of some of the issues provided to EPA included, "gas migration stems from inadequate cement, cementing procedures", "the operator shall install casing that can withstand the effects of tension and prevent leaks...", "used casing may be approved for use as surface casing, intermediate or production casing but must be pressure tested..."

The Bittinger #1 and Bittinger #4 proposed UIC permits both require that surface casing be set 50 feet below the lowermost USDW (**Note: The UIC program defines a USDW as any aquifer system having less than 10,000 mg/l total dissolved solids (TDS), that is currently used, or could be used in the future. This definition is more stringent than the PADEP definition that requires protection of the "deepest fresh water".**). The surface casing must also be cemented to the surface. The lowermost USDW has been identified at a depth of 300 feet and the Bittinger #1 and Bittinger #4 wells have surface casing set at 401 feet and 506 feet, respectively. This is well below the "fresh water" that would be protected under the PADEP requirements. In addition, the proposed permits require production casing (also referred to as long string casing) to be set through, or above, the injection zone, located at approximately 4300 feet, and cemented back at least 100 feet above the injection zone. Injection tubing and packer is then set inside the production casing and injection occurs through the tubing and packer. This construction provides three layers of protection for the USDWs. PADEP requirements do not require the additional two layers of protection.

Prior to the operation of the wells, EPA requires that the wells be tested for mechanical integrity. Cementing records and logs are required to show that each well has adequate cement to prevent fluid migration out of the injection zone and an internal pressure test is required to ensure that the casing, tubing and packer will not leak during the well's operation. The internal pressure test requires the annulus of the well (the space between the production casing and the tubing and packer) to be pressure tested to ten percent above the permitted maximum injection pressure and held for at least 30 minutes, with no more than a five percent loss in pressure allowed.

The UIC program in EPA Region III has been utilizing the construction and testing standards discussed above for brine disposal injection wells in Pennsylvania since it started implementing the UIC program in June, 1985. PADEP does not have these requirements for mechanical integrity testing or logging. EPA finds that these requirements have effectively protected USDWs from the subsurface injection of fluids.

#### **9) Mechanical integrity tests must be conducted quarterly**

Many comments indicated that mechanical integrity of the injection wells should be done on a quarterly basis. The comments were based on a review of PADEPs Chapter 78 regulations, specifically Section 78.88 which is entitled, "Mechanical integrity of operating wells". This section of the PADEP regulation refers more to the frequency of well inspections and is not the same as the mechanical integrity testing requirements imposed by EPA. Section 78.88 indicates, "...that the operator shall inspect each operating well at least quarterly". It then goes into some detail about what must be inspected.

There is a significant difference between the inspection of a well and the mechanical integrity testing of an injection well. As stated in the previous comment, EPA requires that every injection well be tested before it operates to make sure that the casing, tubing and packer placed in the well do not leak. The proposed UIC permits for the Bittinger #1 and Bittinger #4 wells also require that the wells be tested for mechanical integrity every two years. In between the

testing, the wells are continuously monitored for injection pressure, annular pressure and injection volume to ensure that the wells maintain mechanical integrity continuously and operate in accordance with their permit conditions. Should a problem occur during the operation of either well, each well is designed with an automatic pressure shut-down device that will discontinue operation of the well. The continuous monitoring of the wells, as well as the presence of company employees on site, ensures that the wells operate in a safe and protective manner. EPA will also be conducting periodic routine compliance inspections between mechanical integrity testing cycles to verify all operating and recording devices are operational.

**10) Bear Lake Properties has not demonstrated financial resources should a well failure occur.**

Under the UIC regulations, owners and operators of injection wells are required to demonstrate financial responsibility in order to properly plug and abandon the injection well when the operation ceases and the well is no longer used for injection. Bear Lake Properties has submitted a \$60,000 letter of credit and standby trust agreement (\$30,000 for each injection well) for the plugging and abandonment of the Bittering #1 and Bittering #4 wells. This submission was reviewed and approved by EPA Region III.

Although a separate issue from the financial responsibility required as part of the UIC permit, EPA also has emergency authorities in place under the Safe Drinking Water Act (SDWA) if endangerment to USDWs should result from injection activities. Section 1431 under the SDWA allows EPA to take an action against an owner or operator if the potential for endangerment exists. This action can include a requirement that the owner or operator provide alternative drinking water to a citizen affected by the endangerment as well as require the remediation of any aquifer system affected by the injection operation.

**11) Wastewater entering the facility for injection should be more fully characterized.**

EPA believes that the conditions in Part II, C.3. and C.4., within the permit, are sufficient to adequately characterize and monitor the wastewater for injection purposes. If this wastewater were to be disposed in a different manner (i.e., disposed directly into the environment by stream discharge) then a more extensive characterization would be necessary. However, this wastewater will be injected almost one mile beneath the earth's surface into an environment similar in nature to where the wastewater was generated.

EPA has also added a new condition to the final permit. The condition, found in Part II, C.5., requires that, "The permittee to maintain a record of every load of brine received. The record shall include the hauler's name, the operator(s) name and location from whom the load was obtained, the volume of the load and whether the load of fluid delivered was a split load. If the load was a split load, each operator's name and location shall be listed and, if possible, the volumes of fluid received from each operator documented."

**12) The UIC permits are issued for a five year period. What happens after that, can the operator just walk away?**

The UIC permits would be in effect for five years from the date of issuance. After five years, the operator may apply to EPA Region III for permit reissuance. EPA will make a determination as to whether the permits should be reissued at that time. If a determination is made to reissue the permits, EPA would public notice the permit reissuance and offer an opportunity for a public hearing. If the operator determines that they no longer wish to operate the injection wells, the



wells must be plugged and abandoned in accordance with the UIC permit requirements and abide by all other closure requirements that have been imposed by local or state jurisdictions. The owner's financial responsibility is not released by EPA until the wells are properly plugged and abandoned.

### **Federal Underground Injection Control Program Permit Appeals Procedures**

The provisions governing procedures for the appeal of an EPA permitting decision are defined at 40 CFR Part 124.19. The appeals process allows for a written petition of appeal from any person who commented on the draft permit, either in writing during the comment period or orally at the public hearing. Persons who have not previously been involved in the comment period are limited in their appeal rights to those points which have been changed between the draft and final permits. Appeals may be made by citizens, groups, organizations, governments and the permittee within this procedural framework.

A petition for appeal must be filed within thirty (30) days of the date of the accompanying announcement of EPA's permit decision. Such written requests are to be addressed to EPA at the address listed below with a copy sent to EPA Region III.

The Administrator  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue Northwest  
Washington, DC 20004

The petition should specify the reasons supporting the appeal of the permit and a demonstration that the petitioner had raised the issue previously during the comment period or at the hearing. If the appeal is based on a change between the draft and final permit conditions, it should be so stated explicitly. The petitioner must also state whether, in his or her opinion, the permit decision or the permit's conditions appealed are objectionable because of:

1. Factual or legal error, or
2. The incorporation of a policy consideration which the Administrator should, at his or her discretion review.

Within a reasonable time of receipt of the Appeals Petition, the Administrator will either grant or deny the appeal.

Denials are considered final agency action, upon which the permit becomes effective, and the Agency will so notify the petitioner. The petitioner may, thereafter, challenge the permit decision in Federal District Court.

If granted, EPA must so notify the public in accordance with the notification requirements of 40 CFR 124.10. The public notice shall set forth a timetable by which the person(s) making an appeal and EPA, as the permitting authority, must submit written briefs and shall also specify that any interested party may submit an amicus brief within these deadlines.

When a petition for appeal is granted, the permit conditions appealed are not deemed to be in effect and if these permit conditions are essential to the operation, the activity may not commence. Individually contested permit conditions are also stayed (not in effect) but other permit conditions are still in effect if they are legally severable from the contested condition.

The EPA Administrator will decide the appeal on the basis of the written briefs and the



total administrative record of the permit action. If the Administrator decides the appeal on its merits, he or she will direct the Region III office to implement his or her decision by permit issuance, modification or denial. The Administrator may order all or part of the permit decision back to the EPA Region III office for reconsideration. In either case, a final agency decision has occurred when the permit is issued, modified or denied and an Agency decision is announced. After this time, all administrative appeals have been exhausted, and any further challenges to the permit decision must be made to Federal District Court.







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
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**EPA Region III Responsiveness Summary to Public Comment on New Information  
For  
Underground Injection Control (UIC) Permits PAS2D215BWAR and PAS2D216 BWAR  
For  
Bear Lake Properties, LLC**

On June 28, 2012, the Environmental Appeals Board (EAB) of the United States Environmental Protection Agency (EPA) remanded to EPA Region III (Region) two Underground Injection Control (UIC) permits which the Region had issued to Bear Lake Properties, LLC (Bear Lake) in Columbus Township, Warren County, Pennsylvania. (See *In re Bear Lake Properties, LLC*, UIC Appeal No. 11-03, EAB June 28, 2012). These permits were to authorize the construction and operation of two Class II-D brine disposal injection wells: the Bittinger #1 and the Bittinger #4 wells. The EAB remanded the permits to the Region to clarify the record on the applicant's obligation to identify drinking water wells near the injection wells and on the data supporting the Region's finding that there are no drinking water wells within the areas of review. EAB ordered the Region to make the findings regarding the location of the drinking water wells and to make those findings available for public review and comment. With the exception of the information concerning the location of drinking water wells, the EAB rejected other challenges to the permits.

On September 4, 2012, the Region supplemented the statements of basis for the permits, concluding that there were no drinking water wells within in the areas of review, and reopened the public comment period for 60 days to address the EAB remand. The Region provided notice of the reopening of the public comment by mailing a copy of the supplemental statement of basis and the request for comment to all of those who commented during the initial comment period and who participated in the public hearing on these permit, and by publishing a notice in "The Corry Journal". In addition, although not required by the Safe Drinking Water Act regulations, the Region published a notice on its website. The public comment on this issue expired on November 3, 2012. Because the end of the comment period fell on a weekend, the Region accepted comments through Monday, November 5, 2012. The responsiveness summary which follows provides responses to the comments received during this public comment period.

**1) Drinking Water Wells within the Areas of Review**

None of the commenters provided any information that identified drinking water wells within one-quarter mile areas of review around each proposed injection well. One commenter provided information on the following four private drinking water wells near the proposed Bittinger #4 injection well: NYSBL 448.00-1-31.2 Daniel Beres; NYSBL 448.00-1-29 Daniel Beers; NYSBL 448.00-1-31.1 Blazen Wozowicz; and NYSBL 448.00-1-24 Casper Goodrich. The Region has confirmed that these four wells were identified on maps provided by the permit applicant and are located outside the areas of review for the injection wells.

Two commenters submitted information which purported to identify and describe a “cistern” located within the area of review of the proposed Bittering #1 injection well. A cistern is typically a tank or other receptacle used to hold water primarily collected from rain. They are used in many regions of the world as a primary or back-up source of water. Cisterns are not water wells in that they do not draw water from underground.

The purpose of the Safe Drinking water Act (SDWA) is to protect underground sources of drinking water. The UIC regulations promulgated pursuant to the SDWA do not require applicants to identify cisterns in their permit applications, nor do they require the Regions to consider the location of cisterns when considering such applications. See 40 C.F.R. §§ 144.31(e)(7); 146.24 (a)(2). Even if the purported “cistern” drew water from a well, because the permits impose conditions to protect even the lowermost underground source of drinking water (USDW), the injection wells do not endanger the purported “cistern” identified by the commenters.

Furthermore, based on a field inspection conducted by EPA on November 16, 2012, it does not appear that what the commenters have identified is actually a cistern. As shown in the photos provided by the commenters, as well as photos taken by EPA, it is an unprotected water-filled wooden barrel, dug into the ground and located in the woods, which could not safely be used as a source of drinking water. The inspection did not reveal any piping or other infrastructure that would suggest that the wooden barrel is being used or has been used for drinking water.

One commenter did not identify drinking water wells in the area of review but did ask whether the permits would result in a restriction in the drilling of drinking water wells near the injection wells. Because the permit conditions are designed to protect the lowermost USDW, future drilling of drinking water wells near these injection wells is not prohibited.

## **2) Public notification and opportunity for comment**

Several commenters questioned whether public notification of the reopening of the comment period was adequate. One organization indicated that when it tried to access the supplemental statement of basis online, it was not able to access it. Another commenter pointed out that initially the online notice about the comment period had indicated that the wells were located in Columbia Township, instead of the correct location which is Columbus Township. The commenter was also confused about the end of the comment period. Finally one commenter requested a public hearing “to discuss the integrity of the 2 injection wells.”

The regulations governing issuance of permits in 40 C.F.R. Part 124 require that the Region give public notice of the reopening of the comment. The regulations also govern the computation of the time in such notices. See 40 C.F.R. § 124.20. For this reopening, the Region mailed approximately 300 notices to all of those who had submitted comments during the original comment period and to those who provided testimony during the hearing. These notices

correctly indicated that the wells are located in Columbus Township. The Region also published a notice in a local newspaper, "The Corry Journal", on September 4, 2012. Participants in the public hearing held on March 23, 2011, identified "The Corry Journal" as the most useful local newspaper in which to publish a public notice regarding UIC permits.

In addition to the notices above, in order to reach as much of the public as possible, the Region also posted the notice of the reopening of the comment period on the Region's website, even though the posting is not required by regulations. When first posted, the notice included a typographical error, listing the township where the wells are located as Columbia instead of Columbus Township. The text of the notice correctly indicated the wells are located in Columbus Township, and the heading and text correctly identified the county as Warren County. On September 21<sup>st</sup> the Region was notified of the typographical error in the heading and promptly corrected it. As of September 25, 2012, the heading of the online notice had been corrected. The Region does not believe the error in the heading prevented the public from receiving notice or having a meaningful opportunity to comment. The text of the online notice at all times properly identified the county in which the wells are located, and thus an online search still would have located the notice.

The commenter who had trouble accessing the supplemental statement of basis online had other means of obtaining the information. As specified in the notice, the information was also available at the local library and from EPA. The notice provided an email address and phone number for further information. Because there were several ways to access the information referenced in the notice, the Region does not believe extending the reopening of the comment period for 90 more days, as requested, is necessary. Considering that very few of the commenters addressed the question of the location of drinking water wells, submitting instead comments not relevant to that question, the Region does not expect that extending the reopening of the comment period on the one limited issue of the location of drinking water wells in the areas of review would result in better information about the location of such wells. Similarly, a public hearing "to discuss the integrity of the 2 injection wells" would not address the question leading to the reopening of the comment period.

### **3) Other Comments**

EPA received a number of other public comments that did not address the specific issue of the location of drinking water wells that led to the reopening of the public comment period as specified in the public notice. These included comments related to the construction and monitoring requirements for the wells, the plugging and abandonment plans for the wells, concern over nearby abandoned wells, fear of injection-induced seismicity, calculation of the area of review, and the request for mandatory testing of nearby drinking water wells, in addition to general opposition to the siting and construction of these wells. None of these comments raised substantial new questions that would justify a broader reopening. See 40 C.F.R. § 124.14(b). Commenters had an opportunity to raise, and did raise these issues, when the draft permits were first issued for public comment. The Region provided a 70-day public comment period (after extending the public comment period twice), and held a public hearing. The Region

responded to timely-raised comments when it issued the permits on June 8, 2011. The Region refers the commenters to that Responsiveness Summary. Commenters had an opportunity to appeal the Region's resolution of these issues to the EAB, which rejected all other challenges to the permits, except for the one concerning the location of drinking water wells. Because these comments do not raise a substantial new question, the Region is not reopening public comment for these other comments, but is addressing in this responsiveness summary comments regarding the location of drinking water wells as specified in the remand.

#### **4) Final Permit Issuance**

Together with this responsiveness summary, EPA Region III is issuing the final UIC permits PAS2D215BWAR and PAS2D216BWAR. The permits are effective as of November 29, 2012. Pursuant to 40 C.F.R. § 124.19(f), the issuance of these permits completes the remand procedures and constitutes final agency action for the purpose of judicial review, as the EAB's remand order did not provide for appeal of the remand decision. Any further challenges to the permits must be brought within 45 days in federal court as provided in 42 U.S.C. § 300j-7.

