

DEQ-approved 3/24/2011 Expanded PZ Well Identification Work Plan survey letter

Dear Owner:

I am writing to you on behalf of Pall Life Sciences (formerly known as Gelman Sciences) (“PLS”) to ask you to complete the enclosed survey. PLS is seeking this information in connection with changes to its groundwater cleanup program that have been approved by both the Michigan Department of Environmental Quality (“MDEQ”) and the Washtenaw County Circuit Court (Court) Judge who is supervising PLS’ cleanup efforts.

As you may know, in May, 2005, the Court issued an order establishing an area within the City of Ann Arbor where it is illegal to withdraw or otherwise use the groundwater. Recently, the Court approved an expansion of the “Prohibition Zone” as part of agreed upon modifications to the cleanup program. Details on these changes are available on the web site maintained by the MDEQ for the Gelman Sciences site ([www.michigan.gov/deqrrd](http://www.michigan.gov/deqrrd), scroll down to link to Gelman web site).

A copy of the Prohibition Zone order is attached, which now also applies to the expanded Prohibition Zone. Also attached is a separate figureshowing the area covered by the expanded Prohibition Zone. Your property is located within the expanded Prohibition Zone. Like virtually all of the properties in the Prohibition Zone, your property is supplied with City water drawn from a safe source. Because the Prohibition Zone is broad enough to include a significant buffer zone, the fact that your property is located within this zone does not mean that there is contaminated groundwater under your property. It does mean that use of wells on your property to withdraw groundwater is, with limited exceptions, prohibited.

The MDEQ has asked PLS to survey certain properties within the zone established by the Court’s orders to identify the existence of any wells that could be used to withdraw water, whether they are in operation or not. This includes not only out-of-use drinking water wells, but also wells used for irrigation, heat pumps or other purposes. The properties like yours now being surveyed are those that might have been serviced by a private well before being connected to the City water supply. If you are unsure about whether such a well is present on your property, PLS requests the opportunity to inspect your yard to determine if an old well might still exist. It is important that any wells within the expanded Prohibition Zone be identified and properly addressed to prevent future use.

Please return the attached survey form to PLS in the self-addressed envelope provided. If you have any questions, please feel free to contact either PLS or the MDEQ:

Sybil Kolon  
MDEQ  
301 E. Louis Glick Hwy.  
Jackson, MI 49201  
517-780-7937  
[kolons@michigan.gov](mailto:kolons@michigan.gov)

Farsad Fotouhi  
Pall Life Sciences  
600 S. Wagner Road  
Ann Arbor, MI 48106

Thank you for your assistance with this important aspect of the cleanup project.

Farsad Fotouhi

cc: resident if not the owner

**Well Identification Survey**  
(Please complete both sides)

Property Address: \_\_\_\_\_

Property Owner Name: \_\_\_\_\_

Respondent is Owner:    \_\_\_\_\_ YES    \_\_\_\_\_ NO

Property Occupant Name: \_\_\_\_\_

How long have you lived here? \_\_\_\_\_

If you know, when was the house/building built? \_\_\_\_\_

If you know, was house/building hooked to city water when built? \_\_\_\_\_

Do you know of others who may have more information about wells at this address or others in the area? \_\_\_\_\_ If so, list name(s) and any contact information

\_\_\_\_\_

To the best of your knowledge, are there any water supply wells on your property that are currently used for any of the following purposes:

- Drinking Water Supply
- Irrigation
- As part of a heat pump system
- Other

If you've checked any of the above boxes, please generally describe where each such well is located on the property and the frequency each well is used.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To the best of your knowledge, are there any water supply wells on your property that are no longer in use?    \_\_\_\_\_ YES    \_\_\_\_\_ NO

If so, please describe generally where each such well is located, whether it is still usable, and the last time the well was used.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

For each out-of-service groundwater extraction wells that is present on your property, please describe what steps, if any, were taken to abandon the well and provide copies of any documentation available, such as well abandonment logs.

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**EXPANDED PROHIBITION ZONE WELL IDENTIFICATION WORK PLAN**

This Work Plan will summarize the procedures PLS will follow in order to identify the presence of private water wells located within the area that will be included in the Prohibition Zone if the proposed expansion is approved. This Work Plan is intended to satisfy the requirements of paragraph 10 of the Court’s May 17, 2005 Order Prohibiting Groundwater Use (“Groundwater Prohibition Order”). PLS has already conducted an initial screening of the proposed expanded area and has located a number of existing drinking water supply wells. PLS will perform the additional tasks described below upon court- approval of PLS’ proposed comprehensive remedial modifications (as modified by agreement of the parties), including expansion of the Prohibition Zone.

1. PLS will publish a DNRE-approved Legal Notice of the expansion of the Prohibition Zone in a manner consistent with the procedures followed when the Prohibition Zone was established. PLS will provide a copy of the Court’s Order approving the new boundaries, the Groundwater Prohibition Order and a map depicting the expanded Prohibition Zone to the relevant municipal offices.
2. The following properties within the expanded portion of the Prohibition Zone (“Expanded Area”) are currently serviced by private drinking water wells:

545 Allison Dr.  
427 Barber Ave  
3225 Dexter  
3249 Dexter  
3313 Dexter  
305 Pinewood

Upon approval of the comprehensive modifications, PLS will provide a connection to municipal water for each of these properties and properly abandon (plug) the old well with the assistance of licensed water well contractor. PLS understands that the MDNRE has not made any effort to pre-approve this list of addresses and that it will do so after PLS files its report.

3. The following properties are currently being serviced by municipal water, but have private wells that were kept in service for groundwater monitoring purposes:

544 Allison  
593 Allison  
430 Barber East & West  
435 Barber  
476 Barber  
486 Barber  
440 Clarendon

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456 Clarendon  
573 Dellwood  
2643 Dexter  
2652 Dexter  
2690 Dexter  
2819 Dexter  
3161 Dexter  
3245 Kingwood  
3250 Kingwood  
441 Parkwood  
354 Pinewood  
373 Pinewood shallow & deep  
350 Rose  
2950 Valley

Subject to being granted access, PLS will contract with a licensed well contractor to plug the wells on these properties unless they continue to be part of PLS' approved monitoring plan or unless one of the exceptions listed in paragraph five of the Court's Groundwater Prohibition Order applies. PLS understands that the MDNRE has not made any effort to pre-approve this list of addresses and that it will do so after PLS files its report.

4. PLS will review available governmental records/databases to locate any well plugging/abandonment records for properties located within the Expanded Area.
5. PLS will utilize the previously agreed upon methodology to determine if properties within the Expanded Area were developed: a) within the City limits; b) at locations where City water was available; and c) at a time when connection to City water was legally required. For all such properties that meet all of these conditions, no further action will be required.
6. PLS will review the remaining areas/properties to determine if the properties were developed within one year of the original "tap dates" and/or the first date the City billed the property for water service. PLS understands that the MDNRE will require corroborating evidence in addition to the original "tap date" in order to prove that the property was connected to City water within a year of being built. If appropriate corroborating evidence is not available the owner of the property will be surveyed. Consistent with the previously agreed upon procedures, no further action will be required for properties where it can be confirmed the building was connected to City water within a year of being built.
7. If there is a gap of more that one year (that is otherwise not explainable), this would indicate that the property was likely to have been serviced by a private well at one time. PLS will survey all such properties under the procedures described below, with the exception of properties for which well plugging/abandonment records confirm that the well has been plugged.

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8. The survey and cover letter that will be mailed to the owner and (if different than the owner) the resident of vulnerable properties is attached. Consistent with past procedures, a copy of the Groundwater Prohibition Order will be included along with a map of the expanded Prohibition Zone and will be mailed to the property address (and to the owner's address of record if different). The cover letter will also include PLS' request for permission to inspect the exterior of the property for wells.
9. For each property that is confirmed to be using a private drinking water well for drinking water purposes by the procedures described above, PLS will provide a connection to municipal water and properly abandon the old well. For each private non-drinking water well that is identified by the above described procedures, PLS will properly plug the well unless PLS chooses to petition the Court to clarify whether its Groundwater Prohibition Order requires PLS to abandon such non-drinking water wells. Prior to abandoning/plugging of any well, PLS will attempt to obtain a groundwater sample from the well for analysis, unless a recent (within 6 months) sample result from the well in question is available.
10. At the conclusion of this effort, PLS will provide the DNRE with the following:
  - a. Plat maps identifying the subdivisions that were determined not to be vulnerable because they were developed at a time when connection to City water was legally required;
  - b. A detailed explanation of how PLS determined which properties are vulnerable and need to be surveyed;
  - c. All relevant well plugging/abandonment records;
  - d. Proof that the survey documentation was served on the relevant owners in an envelope with PLS' return address and copies of any surveys that are returned;
  - e. Copies of any written responses to the Public Notice that PLS receives;
  - f. The results of any samples obtained from the wells that PLS identifies;
  - g. A spreadsheet that summarizes the disposition of the properties not included in the plat maps provided in 10.a., including the basis for not surveying any of those properties (if any);
  - h. A short narrative report summarizing the results of PLS' investigation.

PLS will complete the well identification work plan within 180 days of the establishment of the PZ expansion and will submit a report on the work within 60 days of completion of the work plan, subject to the need for any extension for unanticipated delays.