



JENNIFER M. GRANHOLM  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
JACKSON DISTRICT OFFICE



STEVEN E. CHESTER  
DIRECTOR

October 30, 2006

VIA E-MAIL and U.S. MAIL

Mr. Farsad Fotouhi  
Environmental Manager  
Pall Life Sciences, Inc.  
600 South Wagner Road  
Ann Arbor, MI 48103-9019

Mr. Alan D. Wasserman  
Williams Acosta, PLLC  
535 Griswold Street  
Suite 1000  
Detroit, MI 48226-3535

Mr. Michael L. Caldwell  
Zausmer, Kaufman,  
August & Caldwell, P.C.  
31700 Middlebelt Road,  
Suite 150  
Farmington Hills, MI 48334

Dear Sirs:

SUBJECT: Gelman Sciences, Inc. Remedial Action  
Unit E Aquifer, Well Identification Report dated September 15, 2006

We have received and reviewed the above referenced report. Our comments are included below and in the enclosed tables.

Wagner Road Wells

The report states that 603 South Wagner Road shared a well with the adjacent house. That was true in recent years; however, the well at 603 South Wagner Road dried up in 2003 and that house was temporarily connected to the well that served 609 South Wagner Road. We have been informed by the property owner that the well at 603 South Wagner was plugged this year. Please provide a copy of the well abandonment log with your next report.

Regarding the water supply wells that are currently in use at 685 and 697 South Wagner Road, we had discussions with each of these property owners this summer. One of the concerns raised by the property owners was Pall Life Sciences' (PLS) request for access to sample the well for an undetermined length of time. PLS has not requested, nor does the Department of Environmental Quality (DEQ) believe it is necessary, to maintain these wells as monitoring locations. Please continue your efforts to obtain access to connect these homes to the city water supply and plug the wells. We believe that PLS does have the authority, under paragraph 11 of the May 17, 2005 Order Prohibiting Groundwater Use (Order), to enforce the requirements of the Order. If PLS has not obtained access by November 30, 2006, PLS must seek court ordered access to enforce the Order since connecting these homes to city water and plugging the wells is part of PLS's obligations under the Order.

Survey Results

We have reviewed the survey results in detail and have several comments. Additional actions and documentation are required. We have enclosed three tables. Table 1 includes all addresses within the Prohibition Zone (PZ) that have wells, have had wells in the past, and that have so far been identified as possibly having a well, with current information and DEQ comments on each address. Table 2 is a similar preliminary list of addresses in an adjacent area that may be added to the original PZ. Table 1 is sorted by the columns "Well", "DEQ Comments" and "Address". For convenient reference, we have also included Table 3, which has the same information as Table 1, sorted by "Address". We will also provide an electronic version of these tables. The following list includes significant DEQ comments on groups of

wells in Table 1; however, you should review the "DEQ Comments" field in Tables 1 and 2 for our detailed comments on each address.

- Rows 2 – 11 minimal information required to confirm status;
- Rows 12 – 16 well abandonment logs (WAL) or other documentation of plugging must be submitted;
- Rows 17 – 48 no further action required;
- Rows 49 – 51 addresses to be connected to city water and old wells plugged;
- Rows 52 - 69 served by city water and former water supply wells have not been plugged or plugging not documented; PLS must locate wells if possible, confirm that they have been plugged, or plug if they have not been; if wells cannot be located, documentation of the well search must be provided;
- Rows 70 – 73 these wells must be plugged;
- Rows 74 – 75 these wells have been approved for the exception in paragraph 5(a) of the Order for continued use as monitoring wells;
- Rows 76 – 77 PLS must plug or request and receive approval from the DEQ for continued use pursuant to paragraph 5(e) of the Order, provided sample results are non-detect for 1,4-dioxane and hydrogeologic information supports that contamination is unlikely to be encountered from natural migration or use of the well;
- Rows 78 - 86 additional information must be collected to determine if there are any wells; if so, any wells found must be plugged.

It is our intent to update and expand Table 1 as additional information is gathered and new addresses are identified for consideration, whether due to new information or expansion of the PZ. This will allow the DEQ and other interested parties to easily locate information about the addresses that have been considered as part of the well identification process.

Many of the addresses included in Table 1 of the Well Identification Report had an "X" under the field description of "Occupant has no knowledge of wells and/or believes all wells abandoned". As discussed at our October 10, 2006 meeting with PLS, this language conveyed very little information that we could use to determine whether further action needed to be taken with regard to those addresses. Based on our comments at the meeting, PLS subsequently submitted copies of the survey responses. These surveys provided additional detail that helped resolve our questions about several addresses, although some questions remain. You will note that the enclosed tables reflect this new information.

As we discussed in our meeting, if the owner/occupant does not believe there are any wells on the property, PLS should seek additional information to verify, if possible, that no wells were ever installed at these addresses. This may be accomplished by comparing the date of construction with the date of connection to the city water supply, as has been done in other cases. If the date of connection is later than construction, additional steps would be required to locate and address any wells. If the occupant believes the well was plugged, documentation of this must be provided or an effort must be made to locate the well to confirm that it has been plugged.

We recognize that it may not be possible to verify whether or not wells were installed at each address in question, or that every well that did exist has been plugged. This is partly due to the fact that there was no requirement to register water supply wells drilled before 1965, or to report that wells had been plugged until more recently. Well casings are often cut off below the ground surface after they are plugged, making them very difficult to find. We request that PLS make a good faith effort to make these determinations, and to provide the documentation of those efforts to us. We also request, as discussed during the meeting, that PLS provide written notice of the restrictions on the use of groundwater, including a copy of the Order, to the owners of property where the status of any well cannot be confirmed. This notice should also inform the property owner that they must disclose the groundwater use restrictions to future owners. It should also include a request that they provide any information they may have on the subject to PLS or the DEQ. PLS must provide the DEQ with a copy of a mail return receipt or similar certification documenting that each property owner who was sent this notice received it.

The February 28, 2006 Well Identification Report (page 9) indicated PLS had information on the approximate location of former public water supply wells in the oldest part of Ann Arbor and had found a 1935 map showing the location of other water supply wells. That report indicated that this information would be reviewed to determine if any of these wells still exist; however, none of PLS's additional submittals have indicated that any effort has been made to locate these wells. Although it may be unlikely that any of these wells can be found, PLS should provide to us the results of the review that it has already performed, or if the review has not been performed yet, make an effort to locate these wells and provide the results to us in a future report. Please include a map or description of the location of these wells.

The DEQ and PLS are currently considering the need for expansion of the PZ. Table 2 of PLS's May 19, 2006 Well Identification Report incorporated a small area adjacent to the PZ into the well identification process and proposed surveying a few addresses in that area. The information provided by PLS in the report did not explain the basis for not surveying some of the addresses that were included in Table 2. In addition, there was no information to support PLS's decision not to review some areas in the proposed PZ expansion at all. Once the area of the PZ expansion has been determined, a more thorough explanation (similar to what was provided for the current PZ area) will be required to document the basis for not reviewing the other areas or not surveying specific addresses within areas to be reviewed.

PLS has indicated that a detailed map, as requested in our July 17, 2006 letter, is beyond the scope of this project. The primary purpose of this request was to verify that all areas within the PZ had been appropriately considered, as this is not apparent from the submissions to date. In addition, the information that is available is contained in a series of reports and correspondence PLS has submitted on this subject and is not readily available in one document. Because the PZ will be in place for many years, there will be an ongoing need for the DEQ and local units of government to respond to inquires from current and future residents, property owners, and other parties with interests in property within the PZ. Therefore, we believe it is reasonable for PLS to compile all of the information available into one document. We believe this can be done most effectively in a report that includes a detailed map. Such a map should clearly show which existing parcels within the PZ are or are not included in the subdivisions and other areas referenced in the report. The report should include: 1) the information PLS used to determine which areas did or did not need to be considered for surveying and, 2) for areas to be surveyed,

the information used to determine why any addresses within those areas do not need to be surveyed.

We note that the homes on Penncraft Court, the two homes on Newport, and the one home in Assessor's Plat No. 4 were not reviewed until after we questioned the need to review these areas. PLS's original February 28, 2006 report was silent on these areas. PLS's subsequent submittals did add these addresses to the survey, but also indicated that these areas had been initially considered. Therefore, without an accurate, graphic representation of all the areas considered, as described above, it is not possible for us to verify that all areas have been appropriately considered.

PLS has indicated that it intends to seek amendment of the Order to allow for use of irrigation wells, such as the one at 3480 Jackson Road, that are screened in formations that are or may become contaminated. The DEQ believes the Order is protective in its current form and should not be amended for this purpose. The amendment PLS proposes would reduce the reliability of the restrictions and increase the time, effort, and expense required by the DEQ to monitor the remedy to ensure that the restrictions remain protective.

We recognize that PLS has put considerable effort into compiling the information that has been presented to date. The DEQ has also expended considerable effort in reviewing this information to eliminate, to the degree possible, the potential for unacceptable exposures. The additional information and actions we have requested will minimize the potential for unacceptable exposures, consistent with the intent of the Order. Please provide your response to this letter by November 24, 2006, including a schedule for submittal of a complete report on the original PZ area that will incorporate all the DEQ comments and requests.

Sincerely,

Sybil Kolon  
Environmental Quality Analyst  
Gelman Sciences Project Coordinator  
Remediation and Redevelopment Division  
517-780-7937

SK/KJ

Enclosures

cc: Mr. Robert Reichel, Department of Attorney General  
Ms. Celeste Gill, Department of Attorney General  
Mr. Mitchell Adelman, DEQ/Gelman File  
Mr. James Cogger, DEQ

Gelman Sciences, Inc. Washtenaw County, Michigan

	A	B	C	D	E	F	G	H
1	Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
2	Arborview 1522			survey response - owner of 28 years says hooked up when built in 1935; no knowledge of wells	confirm hook-up date		0	
3	Valley 2675			survey response - owner of two years says hooked up when built in 1968; no knowledge of well	confirm hook-up date		0	
4	Valley 2681			built 1969; survey response - owner says no well	confirm hook-up date		0	
5	Valley 2731			survey response - owner since 1978 says hooked up when built in 1973, no knowledge of wells	confirm hook-up date		0	
6	Dexter 2310			survey included 2320 & 2324 Dexter, same owner, says built 1966 (not clear which address form refers to; no date built on city web site); no knowledge of wells	confirm hook-up date & date built		0	
7	Dexter 2324			restaurant; owner has no knowledge of wells	confirm hook-up date (city web site says built 1979)		0	
8	Dexter 2330			not included in 9/15/06 report; 2/28/06 report said PLS would survey; Fox Auto Service	confirm water from 2340 Dexter well		0	
9	Dexter 2344			not included in 9/15/06 report; 2/28/06 report said PLS would survey; Imperial Auto Service	confirm water from 2340 Dexter well		0	
10	Dexter 2380			returned survey not complete; The Vacuum Store (survey form also shows 2390 Dexter)	confirm water from 2340 Dexter well		0	
11	Dexter 2390			not included in any reports	confirm water from 2340 Dexter well		0	
12	Newport 960			survey response - old well w/hydrant handle; no action needed on old well; follow-up call w/owner, said well was plugged years ago	get WAL, confirm plugged or determine hook-up date & get detailed statement from owner about plugging		0	
13	Wagner S 597	ND-deq	Sep-04	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
14	Wagner S 609	2-deq	Sep-04	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
15	Wagner S 679	ND	Aug-01	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
16	Wagner S 603	ND-deq	Feb-96	not surveyed; PLS connected to city water	get WAL; property owner says plugged in 2006		0	
17	Arborview 2101			built 1952, hooked up 3/6/52	no evidence of well	NA	0	
18	Dexter 2020			built 1946, hooked up 4/8/1947	no evidence of well	NA	0	
19	Dexter 2106			built 1937, hooked up 1926	no evidence of well	NA	0	
20	Dexter 2200			built 1950, hooked up 1926	no evidence of well	NA	0	
21	Valley 2645			survey response - original owner says built 1970 (city records say 1972) and hooked to city when built	no evidence of well	NA	0	
22	Valley 2835			survey response - original owner says built 1980 (same as city records) and hooked up when built	no evidence of well	NA	0	
23	Wagner S 343			vacant lot	no evidence of well	NA	0	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

Gelman Sciences, Inc. Washtenaw County, Michigan

	A	B	C	D	E	F	G	H
1	Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
24	Westover 160			not surveyed; 2/28/06 report says house built 2000	no evidence of well	NA	0	
25	Westover 60			not surveyed; 2/28/06 report says house built 2004	no evidence of well	NA	0	
26	Westover 75			not surveyed; 2/28/06 report says house built 2004	no evidence of well	NA	0	
27	Glendale S 402			built 1953, hooked up 3/22/52	no evidence of well	NA	0	
28	Wagner S 591			not surveyed	PLS connected to city water; used 2nd Sister lake or adjacent well	NA	0	
29	Ferry 3417	166	Apr-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
30	Ferry 3463	ND	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
31	Porter 3412	15	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
32	Porter 3437	ND	Apr-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
33	Wagner S 157	ND	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
34	Wagner S 205	ND	May-86	survey mailed to property owner; WAL w/5/19/06 report	plugged 1987	x	0	
35	Wagner S 351	ND	May-86	current owner says it was capped; WAL w/5/19/06 report	plugged 1987	x	0	
36	Westover 143			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
37	Westover 144			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
38	Westover 163			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
39	Westover 204			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
40	Westover 212			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
41	Westover 213			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
42	Westover 235			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
43	Westover 254			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
44	Westover 263			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
45	Westover 56			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
46	Westover 65			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
47	Westover 126			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
48	Ferry 3409	2900	Jan-91	plugged by PLS 6/24/05; WAL w/5/19/06 report	plugged by PLS	x	0	
49	Wagner S 685	ND	Sep-04	surveyed previously; owner has not signed PLS contract to connect & plug well	connect to city water & plug well		1	
50	Wagner S 697	ND	Aug-01	surveyed previously; owner has not signed PLS contract to connect & plug well	connect to city water & plug well		1	
51	Dexter 2340	ND	Sep-06	OK Auto Service per 2/28/06 report; 9/15/06 report says they will hook up if owner initiates w/city; just sent another letter	connect to city water & plug well; owner called DEQ 9/18/06 to ask if sewer connection covered - not covered (it appears from city & twp. web sites & aerial photo that 2330, 2340, 2344, 2380 & 2390 Dexter may be on the same parcel)		1	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

Gelman Sciences, Inc. Washtenaw County, Michigan

	A	B	C	D	E	F	G	H
1	Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
52	Jackson 3395	261	May-86	city web site says built 1952; survey response - occupant of two years has no knowledge of wells; inspector could not find well	get WAL, confirm plugged or determine hook-up date & get detailed statement from owner about status of well		1	
53	Penncraft Ct 2000, 2010, 2020, 2021			survey responses - all owners say homes were originally connected to community well (no longer in use); original owner at 2010 remembers well being filled in after hook-up (1964)	get WAL, confirm plugged or get a written statement from 2010 owner about who filled the well with what		1	
54	Ferry 3401	127	Apr-86	well in basement; not sure if plugged; no further action	get WAL, confirm plugged or plug		1	
55	Porter 3415	ND	May-86	occupant refused survey	get WAL, confirm plugged or plug		1	
56	Wagner S 249	ND	May-86	survey response - owner of 8 years says built 1926; doesn't know if well abandoned	get WAL, confirm plugged or plug		1	
57	Wagner S 267	ND	May-86	survey mailed to property owner	get WAL, confirm plugged or plug		1	
58	Wagner S 359	ND	Aug-01	survey mailed to property owner	get WAL, confirm plugged or plug		1	
59	Ferry 3432	3800	Aug-01	house built 2004 & hooked up	get WAL, confirm plugged or plug (or attempt to locate well & document results); previous PLS MW (2/3/88 Gelman Sciences, Inc. report); sampled by PLS 2001		1	
60	Penncraft Ct 2005			survey response - owner of 11 years reports there was a well in front of the house (in addition to community well)	get WAL, confirm plugged or plug the well in front of house		1	
61	Porter 3404	ND	Mar-93	built 1940; survey response - owner has lived there two months; has no knowledge of wells	get WAL, confirm plugged or plug; previous PLS MW (from 5/24/94 letter)		1	
62	Westover 211	ND	Jul-92	survey response - owner of 6 years says built 1920s; unsure if well plugged	get WAL, confirm plugged or plug; previous PLS MW (from 5/24/94 letter);		1	
63	Ferry 3445	ND	May-86	built 1925; survey not returned	get WAL, confirm plugged; or plug		1	
64	Valley 2615			survey response - owner says built 1928; hooked up in 1968 but has no knowledge of wells	get WAL, confirm plugged; or plug		1	
65	Valley 2661			built 1940; survey response - owner says not hooked up when built but has no knowledge of wells	get WAL, confirm plugged; or plug		1	
66	Valley 2825			survey response - original owner says built 1951; believes hooked to city water 1970-1980, not sure if plugged	get WAL, confirm plugged; or plug		1	
67	Miller 1645			built 1950; hooked up 10/10/79; will survey	get WAL, confirm plugged; or plug		1	
68	Valley 2915			survey response - owner of 26 years says built 1950; well in basement not in use; resident not sure if well plugged	get WAL, confirm plugged; or plug		1	
69	Rhea 281	ND	May-86	built 1945; survey response - occupant has no knowledge of well but provided name of owner for more info	get WAL, confirm plugged; or plug (contact owner)		1	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

Gelman Sciences, Inc. Washtenaw County, Michigan

	A	B	C	D	E	F	G	H
1	Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
70	Dexter 2320	ND	Jul-02	built 1945; survey response - owner says well not in use, under deck, not capped; no action planned	plug		1	
71	Jackson 3050	29	Jan-06	well no longer in use; status TBD (subsequent to 9/15/06 report PLS indicates it wants to plug	plug (collect one additional sample and confirm depth of well); Weber's Inn		1	
72	Ferry 3459	ND	Dec-05	PLS will plug	plug; previous PLS MW (from 5/24/94 letter)		1	
73	Jackson 3480	3	Dec-05	sample & request amending order to allow use for irrigation	plug; Varsity Ford		1	
74	Valley 2575	6	Nov-05	not surveyed; house built 1958 & PLS MW per 2/28/06 report	request for exception for use as MW approved by DEQ Jan. 2006; add to map; PLS pumps well	NA	1	
75	Jackson 3365	577	Dec-05	not included in report but survey response provided; also the location of MW-30i&d	request for exception for use as MW approved by DEQ July 2006; PLS pumps well	NA	1	
76	Newport 960			irrigation well installed 2001 no longer being used; request exception or amend order for irrigation well	will consider exception if ND, if not, plug;		1	
77	Jackson 2801	ND	Jun-03	sample & request exception or amend order	will consider exception if ND, if not, plug; Bethlehem Cemetery		1	
78	Penncraft Ct 2003			no response to survey; 5/19/06 report shows built 1941, hooked to city water 1964 (same time as adjacent homes)	was there a separate well or previously connected to community well? confirm status & address any well found		?	
79	Valley 2605			built 1941; survey not returned	was there a well or when hooked up? confirm status & address any well found		?	
80	Valley 2667			built 1969; survey not returned, house empty, foreclosure in process	was there a well or when hooked up? confirm status & address any well found		?	
81	Valley 2689			built 1969; survey response - occupant has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found		?	
82	Valley 2695			built 1969; occupant refused survey	was there a well or when hooked up? confirm status & address any well found		?	
83	Valley 2721			built 1928; survey mailed to property owner	was there a well or when hooked up? confirm status & address any well found		?	
84	Valley 2741			survey response - owner says built 1978; has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found		?	
85	Valley 2631			survey response - owner of 28 years says built 1970, has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found (city web site says built 1959)		?	
86	Glendale S 404			built 1950; hooked up 7/21/51	was there a well? provide additional documentation of no well or add to survey		?	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"



**Table 2 - Well Identification Status in Proposed Prohibition Zone - Preliminary List**  
 Gelman Sciences, Inc. Washtenaw County, Michigan

Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
Allison 544	3	May-06	no pump, PLS MW	request exception for MW	NA	1	
Allison 580	48	Aug-03	no action proposed, awaiting survey	get WAL, confirm plugged or plug		1	
Allison 616			well in basement capped by prior owner per current owner	get WAL, confirm plugged or determine hook-up date &		0	
Dexter 2550			survey response - occupant says built ~1800s; has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found		?	
Dexter 2588	ND	Jun-01	not surveyed; included in Table 2 of 5/19/06 report as to be surveyed	get WAL, confirm plugged; or plug		1	
Dexter 2601	3	May-06	PLS MW	request exception for MW; add to map	NA	1	
Dexter 2623			survey response - owner of 19 years says not hooked up when built ~1934 and well was plugged	get WAL, confirm plugged or determine hook-up date & get detailed statement from owner about plugging		0	
Maple N 755			built 1989 (5/19/06 reports says built 1940); survey not returned	was there a well or when hooked up & when built? confirm status & address any well found		?	
Maple N 871			built 1950; hooked up 2/21/02; will survey	get WAL, confirm plugged; or plug		1	
Valley 2606			survey response - occupant of 5 years says built 1928; not hooked up when built but has no knowledge of wells	when hooked up? confirm status & address any well found		1	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"  
<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

**Table 3 - Well Identification Status in Prohibition Zone** (sorted by Address)

Gelman Sciences, Inc. Washtenaw County, Michigan

Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
Arborview 1522			survey response - owner of 28 years says hooked up when built in 1935; no knowledge of wells	confirm hook-up date		0	
Arborview 2101			built 1952, hooked up 3/6/52	no evidence of well	NA	0	
Dexter 2020			built 1946, hooked up 4/8/1947	no evidence of well	NA	0	
Dexter 2106			built 1937, hooked up 1926	no evidence of well	NA	0	
Dexter 2200			built 1950, hooked up 1926	no evidence of well	NA	0	
Dexter 2310			survey included 2320 & 2324 Dexter, same owner, says built 1966 (not clear which address form refers to; no date built on city web site); no knowledge of wells	confirm hook-up date & date built		0	
Dexter 2320	ND	Jul-02	built 1945; survey response - owner says well not in use, under deck, not capped; no action planned	plug		1	
Dexter 2324			restaurant; owner has no knowledge of wells	confirm hook-up date (city web site says built 1979)		0	
Dexter 2330			not included in 9/15/06 report; 2/28/06 report said PLS would survey; Fox Auto Service	confirm water from 2340 Dexter well		0	
Dexter 2340	ND	Sep-06	OK Auto Service per 2/28/06 report; 9/15/06 report says they will hook up if owner initiates w/city; just sent another letter	connect to city water & plug well; owner called DEQ 9/18/06 to ask if sewer connection covered - not covered (it appears from city & twp. web sites & aerial photo that 2330, 2340, 2344, 2380 & 2390 Dexter may be on the same parcel)		1	
Dexter 2344			not included in 9/15/06 report; 2/28/06 report said PLS would survey; Imperial Auto Service	confirm water from 2340 Dexter well		0	
Dexter 2380			returned survey not complete; The Vacuum Store (survey form also shows 2390 Dexter)	confirm water from 2340 Dexter well		0	
Dexter 2390			not included in any reports	confirm water from 2340 Dexter well		0	
Ferry 3401	127	Apr-86	well in basement; not sure if plugged; no further action	get WAL, confirm plugged or plug		1	
Ferry 3409	2900	Jan-91	plugged by PLS 6/24/05; WAL w/5/19/06 report	plugged by PLS	x	0	
Ferry 3417	166	Apr-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Ferry 3432	3800	Aug-01	house built 2004 & hooked up	get WAL, confirm plugged or plug (or attempt to locate well & document results); previous PLS MW (2/3/88 Gelman Sciences, Inc. report); sampled by PLS 2001		1	
Ferry 3445	ND	May-86	built 1925; survey not returned	get WAL, confirm plugged; or plug		1	
Ferry 3459	ND	Dec-05	PLS will plug	plug; previous PLS MW (from 5/24/94 letter)		1	
Ferry 3463	ND	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Glendale S 402			built 1953, hooked up 3/22/52	no evidence of well	NA	0	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"

<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

Gelman Sciences, Inc. Washtenaw County, Michigan

Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
Glendale S 404			built 1950; hooked up 7/21/51	was there a well? provide additional documentation of no well or add to survey		?	
Jackson 2801	ND	Jun-03	sample & request exception or amend order	will consider exception if ND, if not, plug; Bethlehem Cemetery		1	
Jackson 3050	29	Jan-06	well no longer in use; status TBD (subsequent to 9/15/06 report PLS indicates it wants to plug	plug (collect one additional sample and confirm depth of well); Weber's Inn		1	
Jackson 3365	577	Dec-05	not included in report but survey response provided; also the location of MW-30i&d	request for exception for use as MW approved by DEQ July 2006; PLS pumps well	NA	1	
Jackson 3395	261	May-86	city web site says built 1952; survey response - occupant of two years has no knowledge of wells; inspector could not find well	get WAL, confirm plugged or determine hook-up date & get detailed statement from owner about status of well		1	
Jackson 3480	3	Dec-05	sample & request amending order to allow use for irrigation	plug; Varsity Ford		1	
Miller 1645			built 1950; hooked up 10/10/79; will survey	get WAL, confirm plugged; or plug		1	
Newport 960			survey response - old well w/hydrant handle; no action needed on old well; follow-up call w/owner, said well was plugged years ago	get WAL, confirm plugged or determine hook-up date & get detailed statement from owner about plugging		0	
Newport 960			irrigation well installed 2001 no longer being used; request exception or amend order for irrigation well	will consider exception if ND, if not, plug;		1	
Penncraft Ct 2000, 2010, 2020, 2021			survey responses - all owners say homes were originally connected to community well (no longer in use); original owner at 2010 remembers well being filled in after hook-up (1964)	get WAL, confirm plugged or get a written statement from 2010 owner about who filled the well with what		1	
Penncraft Ct 2003			no response to survey; 5/19/06 report shows built 1941, hooked to city water 1964 (same time as adjacent homes)	was there a separate well or previously connected to community well? confirm status & address any well found		?	
Penncraft Ct 2005			survey response - owner of 11 years reports there was a well in front of the house (in addition to community well)	get WAL, confirm plugged or plug the well in front of house		1	
Porter 3404	ND	Mar-93	built 1940; survey response - owner has lived there two months; has no knowledge of wells	get WAL, confirm plugged or plug; previous PLS MW (from 5/24/94 letter)		1	
Porter 3412	15	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Porter 3415	ND	May-86	occupant refused survey	get WAL, confirm plugged or plug		1	
Porter 3437	ND	Apr-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Rhea 281	ND	May-86	built 1945; survey response - occupant has no knowledge of well but provided name of owner for more info	get WAL, confirm plugged; or plug (contact owner)		1	
Valley 2575	6	Nov-05	not surveyed; house built 1958 & PLS MW per 2/28/06 report	request for exception for use as MW approved by DEQ Jan. 2006; add to map; PLS pumps well	NA	1	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"

<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

**Table 3 - Well Identification Status in Prohibition Zone** (sorted by Address)

Gelman Sciences, Inc. Washtenaw County, Michigan

Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
Valley 2605			built 1941; survey not returned	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2615			survey response - owner says built 1928; hooked up in 1968 but has no knowledge of wells	get WAL, confirm plugged; or plug		1	
Valley 2631			survey response - owner of 28 years says built 1970, has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found (city web site says built 1959)		?	
Valley 2645			survey response - original owner says built 1970 (city records say 1972) and hooked to city when built	no evidence of well	NA	0	
Valley 2661			built 1940; survey response - owner says not hooked up when built but has no knowledge of wells	get WAL, confirm plugged; or plug		1	
Valley 2667			built 1969; survey not returned, house empty, foreclosure in process	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2675			survey response - owner of two years says hooked up when built in 1968; no knowledge of well	confirm hook-up date		0	
Valley 2681			built 1969; survey response - owner says no well	confirm hook-up date		0	
Valley 2689			built 1969; survey response - occupant has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2695			built 1969; occupant refused survey	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2721			built 1928; survey mailed to property owner	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2731			survey response - owner since 1978 says hooked up when built in 1973, no knowledge of wells	confirm hook-up date		0	
Valley 2741			survey response - owner says built 1978; has no knowledge of wells	was there a well or when hooked up? confirm status & address any well found		?	
Valley 2825			survey response - original owner says built 1951; believes hooked to city water 1970-1980, not sure if plugged	get WAL, confirm plugged; or plug		1	
Valley 2835			survey response - original owner says built 1980 (same as city records) and hooked up when built	no evidence of well	NA	0	
Valley 2915			survey response - owner of 26 years says built 1950; well in basement not in use; resident not sure if well plugged	get WAL, confirm plugged; or plug		1	
Wagner S 157	ND	May-86	not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Wagner S 205	ND	May-86	survey mailed to property owner; WAL w/5/19/06 report	plugged 1987	x	0	
Wagner S 249	ND	May-86	survey response - owner of 8 years says built 1926; doesn't know if well abandoned	get WAL, confirm plugged or plug		1	

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<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"

Gelman Sciences, Inc. Washtenaw County, Michigan

Address	dioxane ppb	date	PLS comments as of 9/15/06	DEQ Comments	WAL <sup>1</sup>	Well <sup>2</sup>	additional comments
Wagner S 267	ND	May-86	survey mailed to property owner	get WAL, confirm plugged or plug		1	
Wagner S 343			vacant lot	no evidence of well	NA	0	
Wagner S 351	ND	May-86	current owner says it was capped; WAL w/5/19/06 report	plugged 1987	x	0	
Wagner S 359	ND	Aug-01	survey mailed to property owner	get WAL, confirm plugged or plug		1	
Wagner S 591			not surveyed	PLS connected to city water; used 2nd Sister lake or adjacent well	NA	0	
Wagner S 597	ND-deq	Sep-04	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
Wagner S 603	ND-deq	Feb-96	not surveyed; PLS connected to city water	get WAL; property owner says plugged in 2006		0	
Wagner S 609	2-deq	Sep-04	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
Wagner S 679	ND	Aug-01	not surveyed; PLS connected to city water	get WAL; PLS plugged		0	
Wagner S 685	ND	Sep-04	surveyed previously; owner has not signed PLS contract to connect & plug well	connect to city water & plug well		1	
Wagner S 697	ND	Aug-01	surveyed previously; owner has not signed PLS contract to connect & plug well	connect to city water & plug well		1	
Westover 126			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 143			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 144			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 160			not surveyed; 2/28/06 report says house built 2000	no evidence of well	NA	0	
Westover 163			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 204			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 211	ND	Jul-92	survey response - owner of 6 years says built 1920s; unsure if well plugged	get WAL, confirm plugged or plug; previous PLS MW (from 5/24/94 letter);		1	
Westover 212			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 213			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 235			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 254			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 263			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 56			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 60			not surveyed; 2/28/06 report says house built 2004	no evidence of well	NA	0	
Westover 65			not surveyed; WAL w/5/19/06 report	plugged 1987	x	0	
Westover 75			not surveyed; 2/28/06 report says house built 2004	no evidence of well	NA	0	

<sup>1</sup> well abandonment log (WAL) on file if "x"; not applicable if "NA"

<sup>2</sup> well not plugged or not documented as plugged if "1"; no well or former well plugged if "0"