



ReSource Institute

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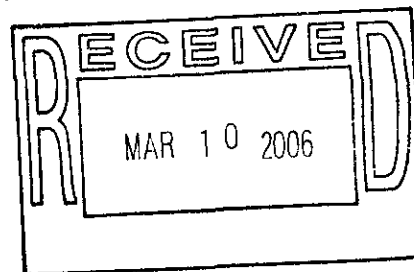
210 East High Street, Suite 107  
Jefferson City, MO 65101  
Phone: 573-634-5008  
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NOV 21 2007

Missouri Public  
Service Commission

March 7, 2006

Mr. Ed Galbraith  
Water Pollution Control Program  
Missouri Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102



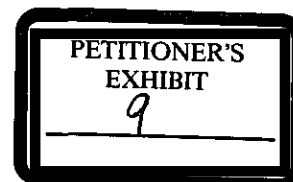
RE: Quail Valley Wastewater System

Dear Mr. Galbraith:

On behalf of Mr. Ed Storey of the Quail Valley Homeowner's Association and Mark Ludwig, I would like to thank you and your staff for the time spent with us discussing the wastewater system at the Quail Valley development. The input received was very valuable from which we were able to then develop the following list of action items:

- 1) A census was taken to develop the total number of people in the Quail Valley Subdivision. The result of this census showed that there are currently 229 people in the 77 homes.
- 2) Water records were obtained from Cole County Public Water Supply District #1 to determine the total amount of water used during a typical winter month. January 2006 records show that the total volume of water for the Quail Valley Subdivision was 425,900 gallons.
- 3) The attorney for the Homeowner's Association is revising the by-laws to require that solids from the septic tanks be pumped at a minimum of once every three years. The Homeowner's Association will have the authority and responsibility to pump these tanks within the scheduled timeframe.
- 4) The initial pumping of each septic tank currently existing in the development will occur before June 1, 2006.
- 5) MDNR agreed to send inspectors to the Quail Valley development during the summer of 2006 to review water quality impacts below the discharge of the wastewater treatment plant.
- 6) Information will be provided to Mr. Keith Forck of MDNR on options to upgrade the clarification portion of the existing treatment plant. These options include tube settling and chemical treatment.

Petitioners Exhibit No. 9  
Case No(s). WC-2007-0303  
Date 10-29-07 Rptr pas



Mr. Ed Galbraith

March 3, 2006

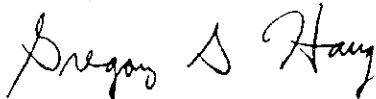
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- 7) Given that the population equivalent, the flow and the discharge parameters are all below the permitted values, the developer will begin hooking up additional homes within the development to the system as construction of each home is completed. We understand that MDNR will not object to these additional hookups.
- 8) By permit, Aqua Missouri must install the dechlorination system under the conditions of the permit issued in February 2005.
- 9) Samples will be taken of the influent to the wastewater plant prior to pumping of the septic tanks. After all septic tanks have been pumped, a second set of influent samples will be taken that will allow us to define the removal efficiency improvements following septic tank pumpage.
- 10) A follow-up meeting with John Hoke and Keith Forck will be requested during the fall of 2006 to review results of MDNR's inspections and wastewater discharge results from the treatment facility. During this meeting we will be able to better define the effectiveness of well-maintained standard septic tanks and also determine whether we need to further investigate retrofitting the septic tanks with aerators.

At the time of its design, the wastewater collection and treatment system for the Quail Valley development was innovative and designed for the entire development. Over the years changes to the system have occurred and will be addressed with the action steps described above.

Once again, we appreciate the assistance from you and your staff on this issue and look forward to working with you in the future.

Sincerely,



Gregory G. Haug, PE

Enclosures

cc: Refaat Mefrakis  
John Hoke  
Keith Forck  
Ed Storey  
Mark Ludwig

# Quail Valley 2006 Census

	Address	Residents
1	2924 Cantaberry Drive	3
2	2913 Cantaberry Drive	4
3	2909 Cantaberry Drive	3
4	2919 Cantaberry Drive	3
5	3000 Cantaberry Drive	4
6	2918 Cantaberry Drive	3
7	2933 Cantaberry Drive	6
8	2921 Cantaberry Drive	5
9	2810 Cantaberry Drive	3
10	2930 Cantaberry Drive	3
11	2929 Cantaberry Drive	4
12	2925 Cantaberry Drive	2
13	2900 Cantaberry Drive	5
14	2914 Cantaberry Drive	4
15	2905 Cantaberry Drive	4
16	2819 Covey Court	2
17	2821 Covey Court	1
18	2701 Covey Lane	3
19	2815 Covey Lane	5
20	2705 Covey Lane	2
21	2816 Covey Lane	2
22	2825 Covey Lane	2
23	2817 Covey Lane	2
24	2801 Covey Lane	2
25	2827 Covey Lane	1
26	2810 Covey Lane	2
27	2813 Covey Lane	2
28	2800 Covey Lane	5
29	2704 Covey Lane	2
30	2809 Covey Lane	2
31	2805 Covey Lane	5
32	2709 Covey Lane	5
33	2828 Covey Lane	3
34	4501 Foxdale Court	5
35	4500 Foxdale Court	4
36	2815 Foxdale Drive	4
37	2725 Foxdale Drive	3
38	2745 Foxdale Drive	2
39	2818 Foxdale Drive	2
40	2908 Foxdale Drive	1
41	2811 Foxdale Drive	2
42	2915 Foxdale Drive	2

# Quail Valley 2006 Census

43	2854 Foxdale Drive	2	
44	2748 Foxdale Drive	2	
45	2708 Foxdale Drive	5	
46	2810 Foxdale Drive	2	
47	2838 Foxdale Drive	2	
48	2819 Foxdale Drive	2	
49	2822 Foxdale Drive	6	
50	2801 Foxdale Drive	2	
51	2800 Foxdale Drive	5	
52	2909 Foxdale Drive	2	
53	2843 Foxdale Drive	2	
54	2850 Foxdale Drive	3	
55	2829 Foxdale Drive	4	
56	2729 Foxdale Drive	2	
57	2814 Foxdale Drive	3	
58	2804 Foxdale Drive	2	
59	2917 Foxdale Drive	4	
60	2826 Foxdale Drive	2	
61	2846 Foxdale Drive	2	
62	2714 Foxdale Drive	2	
63	2733 Foxdale Drive	2	
64	2833 Foxdale Drive	5	
65	2805 Foxdale Drive	2	
66	2837 Foxdale Drive	4	
67	2905 Foxdale Drive	2	
68	2901 Foxdale Drive	2	
69	2847 Foxdale Drive	2	
70	2916 Foxdale Drive	2	
71	2803 Foxdale Drive	3	
72	2842 Foxdale Drive	6	
73	2807 Foxdale Drive	4	
74	2721 Foxdale Drive	2	
75	2741 Foxdale Drive	4	
76	2825 Foxdale Drive	2	
77	2853 Foxdale Drive	2	
Total		229	people
Average population per home		2.97	people/house
January water use per Water District #1		425,900	Gal/month
Average water usage per day for Quail Valley		13,739	Gal/day
Average water use per population equiv. (75 homes)		61.6	Gal/day/PE

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**210 East High Street, Suite 107**  
**Jefferson City, MO 65101**  
**(573) 634-5008**  
**(573) 634-8730 Fax**

# Memo

**To:** File – Quail Valley Subdivision  
**From:** Julie Kuhlmann  
**CC:**  
**Date:** March 6, 2006  
**Re:** Phone Contacts with Cole County Public Water Supply District #1

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March 2, 2006 (afternoon)

- Contacted Cole County Public Water Supply District #1 to request the total gallons sold during January 2006 to the Quail Valley Subdivision.
- Told contact person is manager David, who is out of the office until tomorrow.

March 3, 2006 (morning)

- Returned call to Cole County Public Water Supply District #1 and spoke with David.
- David forwarded me to associate Ruth.
- Ruth indicated she would have some people work on it early next week, but it might take a little time because they would need to pull each home's records individually.

March 6, 2006 (afternoon)

- Ruth called with the following information regarding water sold to the Quail Valley Subdivision:
  - January 2006 – 75 accounts (homes) were sold a total of 425,900 gallons. The owners of two homes were on vacation during this month and had their water shut off.