

**GROUNDWATER RESOURCES SURVEY - SFPUC Irvington Tunnel Alternatives Project**

Date 3-13-08  
Logger WKS

Well ID No. IT-W46  
Lat N37.56316  
Lon W121.91922

**OWNER INFORMATION**

Name(s) Robert and Kathleen L. Defillo, TRs.

Site Address 41798 Vargas Road, Fremont, CA 94536

Parcel number where well is located 096-0056-013-07

Parcel map attached? Yes  No

Other parcels reviewed with owner:

| Parcel number | Water supply resources |
|---------------|------------------------|
|               |                        |
|               |                        |
|               |                        |
|               |                        |

Current land use description  
Horse boarding ranch.

**CONTACT INFORMATION**

Owner  
Daytime phone 925-833-1682  
Cell phone 408-497-7689  
Fax \_\_\_\_\_

Owner occupied? Yes  No

**Renter/Occupant Contact Information**

Name Shelly Skinner  
Telephone (510) 468-6794  
Cell phone \_\_\_\_\_

Special contact instructions  
Call prior to visit.

Access (gates, dogs, livestock, etc.)  
Two dogs.

Any special challenges? (Very steep, unpaved road that may be inaccessible after rain, etc.)  
Steep paved road to site, gravel road to well head and tank. Okay in wet conditions.

**WELL CONSTRUCTION AND HISTORY**

Date well was installed 1968 Depth to cable guard (ft) 60  
 Well diameter (inches) 6 (10\*)  
 Well depth (ft) 140 Depth to Pump (ft) Unknown

\* Well was 10-inch diameter prior to re-casing on 8/28/06. Re-cased well with 6-inch diameter PVC pipe.

**Any documentation available from property owner?**

*Yes. DWR report for re-casing well.*

**Any indication as to who completed recent service or well installation? (Get names and phone #s from the control panel.)**

*Martell Water Systems  
 1818 Loveridge Road  
 Pittsburg, CA 94565*

|                      | Yes                                 | No                                  | Unknown                  | Comments        |
|----------------------|-------------------------------------|-------------------------------------|--------------------------|-----------------|
| Ever gone dry?       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                 |
| Reduced flow?        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                 |
| Odor?                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | Sulfur and iron |
| Change in taste?     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                 |
| Color change?        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                 |
| Deepened / Enhanced? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8/28/06         |

**Well Water Uses**

|                 |            |                            |  |
|-----------------|------------|----------------------------|--|
| Household       | <u>1</u>   | Number of people           | <u>2</u>   |
| Irrigation      | <u>No</u>  | Acres irrigated            | <u>None</u>  |
| Livestock       | <u>Yes</u> | Number and type of animals | <u>25 horses</u>                                   |
| Fire Protection | <u>Yes</u> | Tank size                  | <u>5,000-gallon, used for fire protection only</u> |

Other \_\_\_\_\_

Source of Information Owner

**Other Water Sources**

**Any additional sources of water on the property (i.e., springs, wells, creeks, ponds)?**

*Seasonal creek.*

**What are they used for?**

*Not used.*

**Any off-site sources of water used (i.e., imported water, piped water, trucked water, bottled water)?**

*Use well water for drinking. They also drink bottled water.*

**WELL CONTRACTOR REPORTS**

|                         | Attached                 | Flow Test                                    |              |
|-------------------------|--------------------------|--|--------------|
| Inspection Report       | <input type="checkbox"/> | Totalizer reading before pump test (gallons) | <u>335</u>   |
| 1-Hour Flow Test Report | <input type="checkbox"/> | Totalizer reading after pump test (gallons)  | <u>1,592</u> |
|                         |                          | Total (gallons)                              | <u>1,257</u> |
|                         |                          | Flow Rate based on 60 minute test (gpm)      | <u>20.95</u> |

**REPORT ON EQUIPMENT INSTALLATION****Flow Totalizer**

Installed? Yes  No  Existing

Type 1-inch diameter Hayes Serial no. 1007870024

Reading Date 3-13-08 Time 12:10 Gallons 1,592

**Transducer**

Installed? Yes  No

Serial No. 1028069 ID IT-W46

Elevation of well head (source: GoogleEarth or hand held GPS) 743 (ft.)

Total length of direct read cable 150 (ft.)

Depth transducer below TOC \*(Initial transducer reading – initial barologger reading + initial W.L.) 132.3 (ft.)

\*Installed transducer 2 feet higher than refusal.

**Calibration Check**

Transducer reading prior to raising 6 feet 15.3

Transducer reading after raising 6 feet 9.2

Initial transducer reading 15.3255 Initial water level reading 119.1 (ft.)

Datalogger time interval set to 20 minutes Start time 14:00 Date 3-13-08

**Depth to water**

Direct read meter (feet below TOC) 119.1

Sonic meter (feet below TOC) 109.4

TOC reference point description Top of well plate

**Barologger**

Initial Barologger reading 2.1216 Barologger ID IT-Field Baro

Time 9:20 Date 3-13-08

Installed? Yes  No

Barologger time interval set to \_\_\_\_\_ Start time \_\_\_\_\_ Date \_\_\_\_\_

Serial No. \_\_\_\_\_ ID \_\_\_\_\_ Reading \_\_\_\_\_

Location \_\_\_\_\_

Elevation \_\_\_\_\_ (ft.)

SKETCH OF WATER SYSTEM

NOT TO SCALE



HORSE STABLES

HORSE STABLES

HORSE STABLES

WATER LINE TO MANY HORSE STABLES WATERING TROUGHS

HORSE STABLES

WATER LINE TO HOUSE

WATER LINE TO TRAILER

5,000 GALLON POLY TANK HYDRANT BIB

GRAVEL ROAD HOUSE 41798 VARGUS RD

SEASONAL CREEK

TO VARGUS RD

ASPHALT RD