

# Solicitation Amendment 1

## Well #2B Specifications

STATE OF ARIZONA  
DEPARTMENT OF WATER RESOURCES  
WATER MANAGEMENT DIVISION  
MAIL TO: P.O. BOX 36020, PHOENIX, ARIZONA 85067-6020  
3550 North Central Avenue, Phoenix, Arizona 85012  
Phone (602) 771-8500 Fax (602) 771-8690

### NOTICE OF INTENTION TO DEEPEN OR MODIFY AN EXISTING NON-EXEMPT WELL OR CONSTRUCT A REPLACEMENT NON-EXEMPT WELL AT APPROXIMATELY THE SAME LOCATION IN AN ACTIVE MANAGEMENT AREA

**PLEASE READ GENERAL INSTRUCTIONS AND CONDITIONS BEFORE COMPLETING.**

Section 45-597, Arizona Revised Statutes provides: In an Active Management Area, prior to deepening an existing well or constructing a replacement well at approximately the same location, a person must file a Notice of Intention to Drill. A person must also file a Notice of Intention to Drill prior to modifying a Non-Exempt Well Permit. Pursuant to A.R.S. § 45-596 and A.A.C. R12-15-104, the filing fee for a Notice of Intention to Drill a Non-Exempt Well is \$150.00.

1. Applicant Town of Florence – Utilities Department

Mailing Address 425 E. Ruggles Street

Florence                      AZ                      85132  
City                              State                      Zip Code

Telephone Number (520) 868-7695

E-mail Address: john.mitchell@florenceaz.gov

1A. Public Water System ID #: AZ04-11017

2. This Notice is filed by (check all applicable):

- Land Owner       Owner of Withdrawal Authority       Lessee  
 Consultant       Other \_\_\_\_\_

Note: If Notice is not filed by the land owner, the applicant must submit signed documentation containing land owner's name, address, telephone number, and signature consenting to the deepening, replacing, or modifying of the well.

FOR DEPARTMENT USE ONLY	
File No.	_____
Registration 55-	_____
Date Filed	_____
Input	_____ By _____
AMA/INA	_____

3. Action Requested:  Deepen       Replace       Modify

4. Principal Use of Water: (please be specific): Municipal drinking water

5. Other Uses Intended (please be specific): \_\_\_\_\_

6. Claim of Entitlement to Withdraw Water:

58- \_\_\_\_\_ Grandfathered Groundwater Right Certificate

OR 59- \_\_\_\_\_ Groundwater Withdrawal Permit

OR 57- \_\_\_\_\_ Irrigation District

OR 56- 001204.0001 Service Area

OR 74- \_\_\_\_\_ Recovery Well Permit

7. Construction:

a. Drilling Firm Name TBD DWR License Number \_\_\_\_\_ ROC License Category C-53, A-4

b. Deepening/Replacement/Modification Will Start: August 2014  
Month Year

c. Estimated Time to Complete: 3 Months

d. Attach a Well Construction Supplement, DWR form 55-90, and include a detailed construction diagram as indicated on the form.

8. Original Well:

- a. Location: SW ¼ SE ¼ NW ¼ Section 25 Township 4S N/S Range 9E E/W  
10 Acre 40 Acre 160 Acre
- b. Position: Latitude 33 ° 03 ' 14.8 " N Longitude 111 ° 22 ' 53.8 " W
- c. Position Datum:  NAD 83  NAD 27  Other: \_\_\_\_\_
- d. County: Pinal
- e. Parcel Number: 200 - 33 - 009G
- f. Registration Number: 55- 610433
- g. Registered/Permitted Capacity (see instructions for details): 1400 Registered GPM OR \_\_\_\_\_ Acre-Feet Per Year

9. Deepening/Modification/Replacement Well (as applicable):

- a. Location: SW ¼ SE ¼ NW ¼ Section 25 Township 4S N/S Range 9E E/W  
10 Acre 40 Acre 160 Acre
- b. Position: Latitude 33 ° 03 ' 14.8 " N Longitude 111 ° 22 ' 54.8 " W
- c. Position Datum:  NAD 83  NAD 27  Other: \_\_\_\_\_
- d. County: Pinal
- e. Parcel Number: 200 - 33 - 009H
- f. Distance from Original Well: 80 Feet
- g. Design Pump Capacity 1400 GPM
- h. Estimated total annual pumpage: 2258 Acre-Feet Per Year
- i. Diameter: 18 Inches
- j. Depth: 510 Feet
- k. Type of Casing: Steel
- l. Has the well to be replaced been physically abandoned?  Yes  No
- m. If no, will it be?  Yes  No If Yes when: \_\_\_\_\_

I state that this Notice is filed in compliance with Rules A.A.C. R12-15-809 and is complete and correct to the best of my knowledge and belief, and that I understand the conditions set forth in the general instructions and specific instructions for this application.

John Mitchell  Utility Director 6/10/14  
 Type or Print Name Applicant's Signature Title Date

\_\_\_\_\_  
 Type or Print Name Land Owner's Signature Title Date

ARIZONA DEPARTMENT OF WATER RESOURCES  
WATER MANAGEMENT DIVISION  
3550 North Central Avenue, Phoenix, Arizona 85012  
Phone (602) 771-8585 Fax (602) 771-8688

WELL CONSTRUCTION SUPPLEMENT (form DWR 55-90)

Well Registration Number 55-\_\_\_\_\_

1. Well Location:

SW ¼ of the SE ¼ of the NW ¼, Sec. 25, Township 4S Range 9E.  
10AC 40AC 160AC

2. Position Location of the Well:

Latitude 33 ° 03 ' 14.8 " Longitude 111 ° 22 ' 54.8 "

Datum: • NAD 83 • NAD 27 • Other: \_\_\_\_\_

3. County Pinal\_\_\_\_\_.

4. Date construction to start: August 1, 2014\_\_\_\_\_.

5. Time period well will remain in use: 50 years\_\_\_\_\_.

6. Is pump equipment to be installed? Yes If so, design pump capacity: 1400 GPM.

7. Well construction plan:

a. Drilling method (mud rotary, hollow-stem auger, etc.) Flooded reverse rotary\_\_\_\_\_.

b. Borehole diameters 42 inches from 0 feet to 39 feet.  
28 inches from 39 feet to 510 feet.

c. Casing materials HSLA steel\_\_\_\_\_.

d. Method of well development (bail, air lift, surge, etc.) Air lift/pump & surge\_\_\_\_\_.

e. Will surface or conductor casing extend above grade? Yes\_\_\_\_\_.

8. Include a detailed construction diagram of the proposed well design. The diagram should verify consistency with minimum construction requirements specified in the Department's well construction rules found in Arizona Administrative Code (A.A.C.) R12-15-801 *et seq.* Specifically, the diagram should include borehole diameters; casing materials and diameters; perforation intervals; the expected water level; depth and thickness of the surface seal; proposed grouting materials; and the length that the surface or conductor casing will extend above grade, or vault details, if specified.

Pursuant to Arizona Revised Statutes (A.R.S.) § 45-594.B, all well construction, replacement, deepening and abandonment operations shall comply with the rules adopted pursuant to this section. Therefore, any existing well that is deepened or modified must be brought into compliance with minimum well construction standards specified above, if not already in compliance.

9. Proposed materials and method of abandonment if well is to be abandoned after project is completed (Minimum requirements per A.A.C. R12-15-816):

Not applicable

10. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material, or petroleum storage area or tank?  Yes  No

11. Is this well to monitor existing contamination?  Yes  No

Potential contamination?  Yes  No If yes, please provide explanation: \_\_\_\_\_

12. Name of Consulting firm, if any: Southwest Groundwater Consultants, Inc.

3033 N. 44<sup>th</sup> Street, Suite 120                      Phoenix                      AZ                      85018  
Address    City    State    Zip

Contact Person: Steve Noel, RG                      Telephone Number: 602-955-5547

13. Drilling firm TBD

DWR License Number: \_\_\_\_\_ ROC License Category: C-53, A-4

14. Special construction standards, if any, required pursuant to A.A.C. R12-15-821: None

I (we), John Mitchell, Utility Director hereby affirm that all information provided in this  
(print name) application is true and correct to the best of my/our  
knowledge and belief.

Signature of Applicant  Date 6/10/14

## EXECUTIVE SUMMARY TOWN OF FLORENCE WELL #2

### ADMINISTRATION:

Well Owner: Town of Florence  
P.O. Box 2670  
425 E. Ruggles Street  
Florence, Arizona 85132

Well ADWR Registry ID: 55-224592

Well Legal Location: D(4-9) 25 BDC

Date Completed: June 12, 2015

### WELL PARAMETERS:

Static Water Level (SWL): 197 feet bls (06/26/15)

Completed Well Depth: 500 feet bls

Casing Materials: Blank Casing: 18-inch (ID) HSLA steel, 0.312-inch wall thickness  
Perforated Casing: 18-inch (ID) louvered "Ful Flo" HSLA steel, 0.312-inch wall thickness (0.070-inch slot)

Filter Pack Material: Colorado silica sand, 6x9 mesh

Perforation Interval: 320 – 380, 400 – 500 feet bls

### PUMPING TEST RESULTS:

Discharge Test Pumping Rate: 1,800 gpm

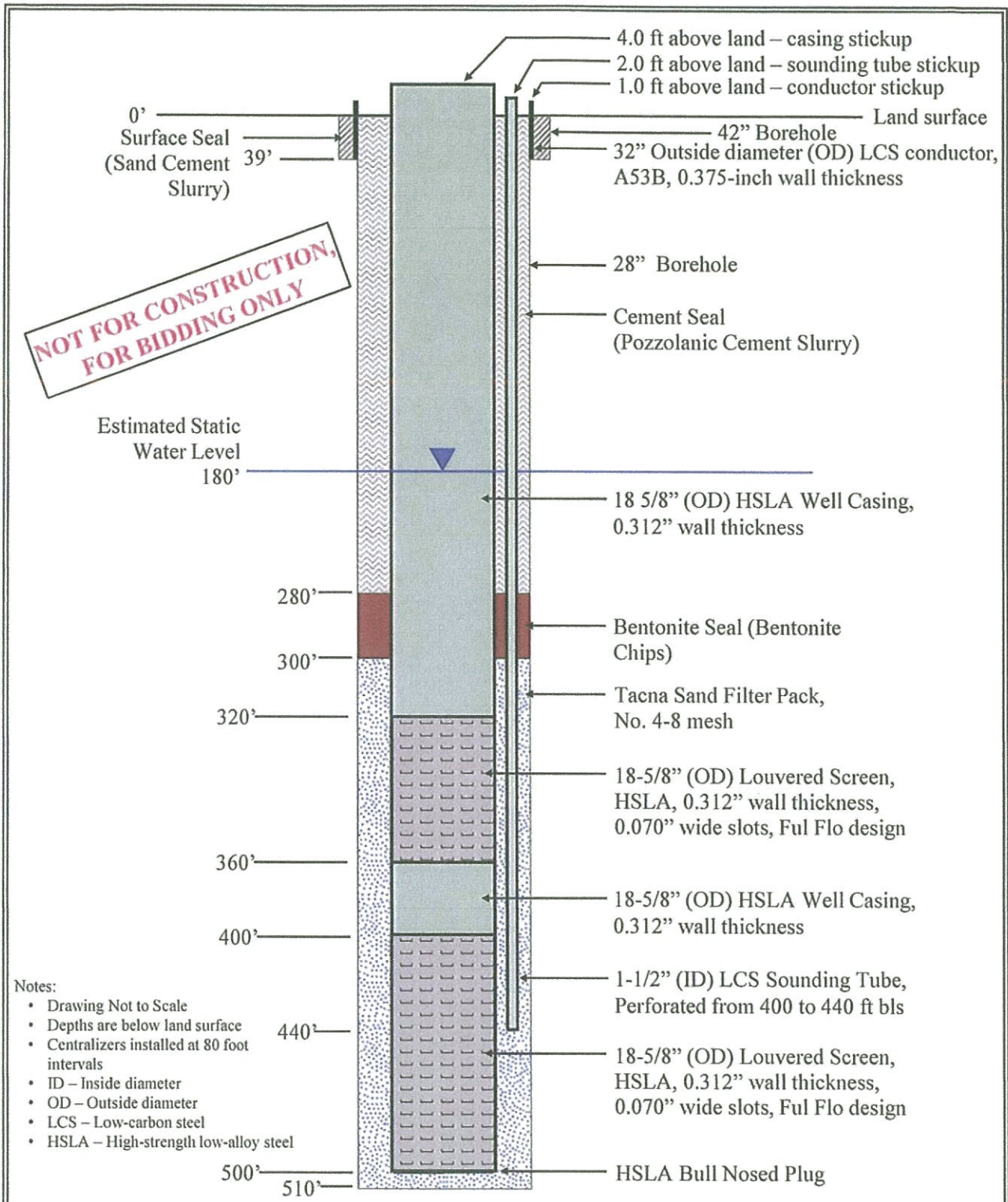
Transmissivity: 165,000 gpd/ft Drawdown vs. Time  
164,000 gpd/ft Specific Drawdown vs. Time  
105,000 gpd/ft Residual Drawdown vs. T/T' Ratio

### PUMPING GROUNDWATER QUALITY:

New Source Water Quality: Arsenic: <0.003 mg/L  
(06/26/15) Fluoride: 0.51 mg/L  
Nitrate (as N): 1.7 mg/L  
Total Dissolved Solids: 630 mg/L







Notes:

- Drawing Not to Scale
- Depths are below land surface
- Centralizers installed at 80 foot intervals
- ID – Inside diameter
- OD – Outside diameter
- LCS – Low-carbon steel
- HSLA – High-strength low-alloy steel

Southwest Ground-water



Consultants, Inc.

June 4, 2014

Project B.2068

PRELIMINARY DESIGN  
 BACKUP WELL NO. 2

Town of Florence, Pinal County, Arizona

Figure  
 1