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JUL 11 2016



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8 **IN THE SUPERIOR COURT OF THE STATE OF ARIZONA**
9 **IN AND FOR THE COUNTY OF MARICOPA**

10 IN RE THE GENERAL ADJUDICATION
11 OF ALL RIGHTS TO USE WATER IN
12 THE GILA RIVER SYSTEM AND
13 SOURCE

W-1 (Salt)
W-2 (Verde)
W-3 (Upper Gila)
W-4 (San Pedro)
(Consolidated)

14 Contested Case No. W1-103

15 **ARIZONA DEPARTMENT OF WATER**
16 **RESOURCES' CONE OF**
17 **DEPRESSION PROGRESS REPORT**

18 (Assigned to the Hon. Mark H. Brain)

19 **CONTESTED CASE NAME:** *In re San Pedro Subflow Technical Report*

20 **DESCRIPTIVE SUMMARY:** Arizona Department of Water Resources' progress report
21 concerning the development of a cone of depression test in the San Pedro River
22 watershed.

23 **NUMBER OF PAGES:** Six

24 **DATE OF FILING:** July 11, 2016
25
26

1 The Arizona Department of Water Resources (“ADWR”) is filing this progress
2 report to update the Court and parties regarding ADWR’s plans for further work on the
3 development of a cone of depression test within the San Pedro River watershed. ADWR
4 believes that this information may be relevant to the “Motion for Status Conference to
5 Schedule Evidentiary Hearing Concerning Implementation of Cone of Depression
6 Testing” filed by Freeport Minerals Corporation on June 14, 2015, and recently filed
7 responses thereto.

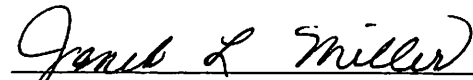
8 In ADWR's opinion, a cone of depression test can best be evaluated in its
9 application rather than as an abstract concept. Therefore, ADWR has been working on a
10 project to demonstrate the results of applying certain cone of depression tests to wells
11 located within the San Pedro River watershed. This demonstration project will also
12 include application of Geographic Information System (“GIS”) techniques to create
13 abstracts of water rights for *de minimis* uses in the San Pedro River watershed that are not
14 part of the *Sands Group of Cases* (contested case no. W1-11-19) and that may be used in
15 the preparation of a preliminary hydrographic survey report pursuant to Court Order filed
16 June 27, 2016. Water right abstracts in contested case no. W1-11-19 are being prepared
17 by the Special Master. See Special Master’s Order filed June 17, 2016.

18 The attached figure displays the extent of the demonstration project area, which
19 consists of the two most southerly townships in the San Pedro River watershed
20 (Townships 23 and 24 South). This area contains a mix of water use types including
21 domestic, irrigation, stockponds, stockwatering, municipal and other uses, except
22 industrial and mining. Within this area, ADWR plans to conduct cone of depression
23 testing using both the existing USGS numerical model (MODFLOW) and an analytical
24 method such as WINFLOW, which ADWR described most recently in its progress report
25 filed April 4, 2016.
26

1 ADWR expects to complete the demonstration project and file a report by
2 December 31, 2016. Results for both of the cone of depression methods will be presented
3 and discussed and final recommendations for a cone of depression test will be made. The
4 report also will present and discuss the results of applying GIS to create water right
5 abstracts for *de minimis* uses that are not part of the *Sands Group of Cases* (W1-11-19).

6 **DATED** this 11th day July, 2016.

7 ARIZONA DEPARTMENT OF WATER
8 RESOURCES

9 

10 Janet L. Miller, Deputy Counsel
11 Nicole D. Klobas, Deputy Counsel

12 **ORIGINAL** of the foregoing
13 hand-delivered this 11th day
14 of July, 2016, to:

15 Clerk of the Superior Court
16 Maricopa County
17 Attn: Water Case
18 601 W. Jackson Street
19 Phoenix, Arizona 85003

20 **COPIES** of the foregoing hand-delivered
21 this 11th day of July, 2016, to:

22 Honorable Mark H. Brain
23 Maricopa County Superior Court
24 Central Court Building
25 201 West Jefferson Street
26 12th Floor, Courtroom 1201
Phoenix, AZ 85003

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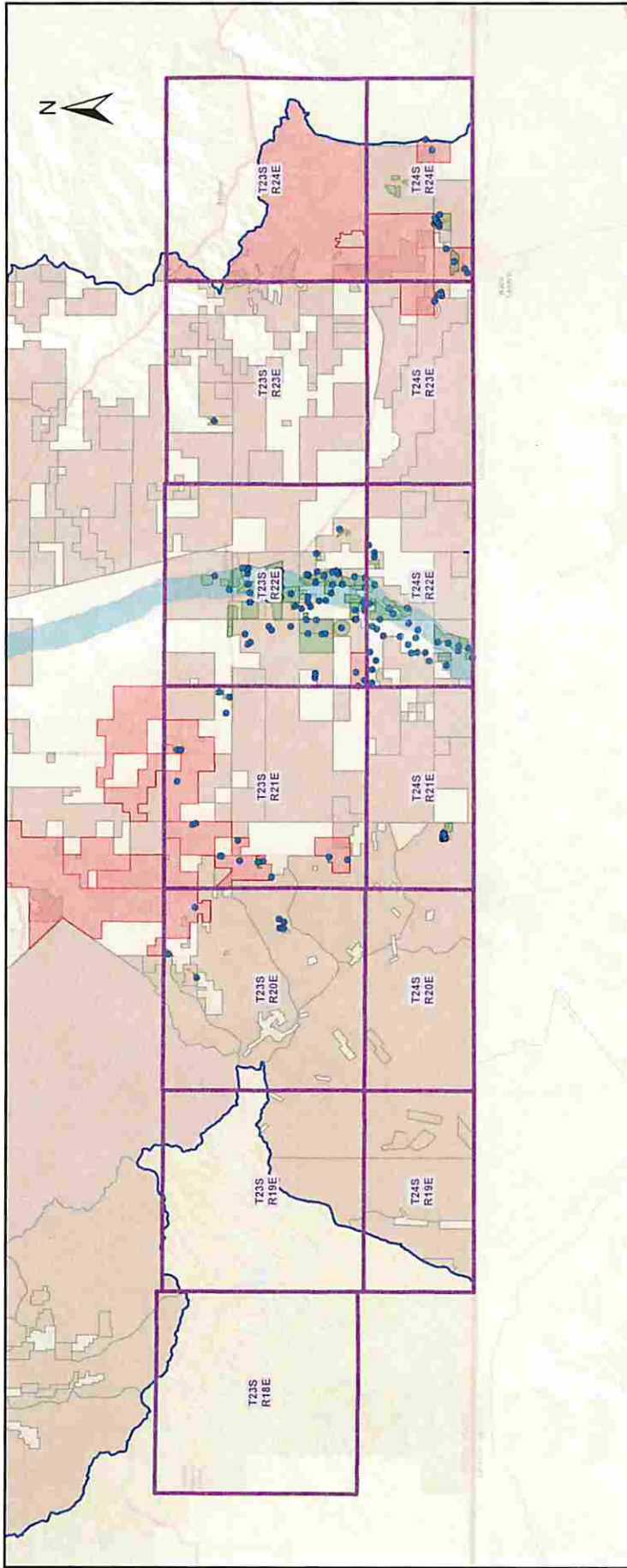
Special Master Susan Ward Harris
Maricopa County Superior Court
Central Court Building Suite 3A
201 W. Jefferson
Phoenix, Arizona 85003

COPIES of the foregoing
sent by first-class mail
this 11th day of July, 2016, to:

All parties on the court-approved mailing list
for contested case no. W1-103.

Mason Sean Hebury

FIGURE



- MAJOR WELLS
- IRRIGATED LANDS
- WATER PROVIDER SERVICE AREAS
- WATERSHED FILE REPORT BOUNDARIES
- PROPOSED SUBFLOW ZONE
- SIERRA VISTA SUBWATERSHED
- TWMP / RWGE

SAN PEDRO RIVER WATERSHED - DEMONSTRATION PROJECT

Townships 23 and 24 South within the Sierra Vista Subwatershed

Coordinate System: NAD 1983 UTM Zone 12N
 Datum: North American 1983
 Spheroid: GRS 1980
 Prime Meridian: -111.0000
 Units: Meter

• Information from the 1991 Final Hydrographic Survey Report for the San Pedro River Watershed.
 • ADVR, May, 2015



PROTECTING ARIZONA'S WATER SUPPLIES for ITS NEXT CENTURY