



Arizona Department of Water Resources  
 Water Management Division  
 P.O. Box 36020 • Phoenix, AZ 85067-6020  
 (602) 771-8500 • (620) 771-8614 fax  
 www.azwater.gov

RECEIVED

SEP 25 2014

Well Owner's  
 Notification of Abandonment

NO FEE

- ❖ Review the instructions prior to completing the form in back of this form.
- ❖ The owner or operator of any well shall notify the Department, in writing, no later than 30 days after the abandonment has been completed.  
 (A.R.S. § 45-594, A.A.C. R12-15-816(K))

FILE NUMBER A(1-3)1968B
WELL REGISTRATION NUMBER 55-502037

\*\* PLEASE PRINT CLEARLY \*\*

SECTION 1. DRILLING FIRM		SECTION 2. LOCATION OF WELL					
NAME Layne Christensen Company		WELL LOCATION ADDRESS (IF ANY) 19 <sup>th</sup> Avenue Landfill 1707 West Lower Buckeye Road Phoenix, AZ 85007					
DWR LICENSE NUMBER 473(A-04)		TOWNSHIP (N/S) 1N	RANGE (E/W) 3E	SECTION 19	160 ACRE NW ¼	40 ACRE NW ¼	10 ACRE NW ¼
TELEPHONE NUMBER 480-895-9336	FAX 480-895-9536	COUNTY ASSESSOR'S PARCEL ID NUMBER					
DATE ABANDONMENT COMPLETED March 1996		BOOK	MAP		PARCEL		
		COUNTY WHERE WELL IS LOCATED Maricopa County					

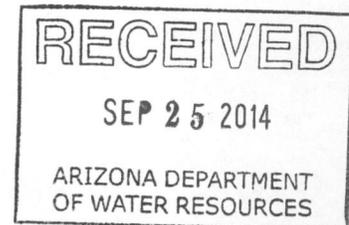
SECTION 3. OWNER INFORMATION			
Well Owner		Landowner (if different from Well Owner)	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL City of Phoenix Public Works		FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL	
MAILING ADDRESS 3060 South 27 <sup>th</sup> Avenue		MAILING ADDRESS	
CITY / STATE / ZIP CODE Phoenix / AZ / 85009		CITY / STATE / ZIP CODE	
CONTACT PERSON NAME AND TITLE Jean M. (Marty) Aramhel, P.E, Project Manager		CONTACT PERSON NAME AND TITLE	
TELEPHONE NUMBER 602-534-1157	FAX 602-534-9872	TELEPHONE NUMBER	FAX

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF WELL OWNER 	DATE 9-18-14
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**City of Phoenix**  
PUBLIC WORKS DEPARTMENT  
SOLID WASTE DISPOSAL MANAGEMENT DIVISION



September 18, 2014

Mr. David Christiana  
Hydrologist  
Arizona Department of Water Resources  
3550 N Central Avenue, Suite 2  
Phoenix, Arizona 85012

**Re: City of Phoenix  
19<sup>th</sup> Avenue Landfill  
Well I-8 Abandonment  
Well Registry No. 55-502037**

Dear Mr. Christiana:

On behalf of the City of Phoenix, Public Works Department, Solid Waste Disposal Management Division (City of Phoenix), Tetra Tech, Inc. has prepared this letter regarding the results of well research for the 19<sup>th</sup> Avenue Landfill. The well research included a review of Arizona Department of Water Resources (ADWR) records for groundwater monitoring wells at and within a one-mile radius of the landfill; a review of City of Phoenix files; and a request to the driller for review of their records. The records review resulted in finding that the ADWR records list one long-abandoned well (ADWR Registry No. 55-502037, well I-8) as still existing. The City of Phoenix is requesting that ADWR update its records to indicate that well I-8 was abandoned on the basis of the information included with this letter.

Groundwater monitoring well 1-8 was drilled and completed in 1982 under ADWR Registration Number 55-502037. Based on the review, this well was located in the landfill and penetrated refuse. The well was abandoned in March 1996 following grading activities associated with closure of the landfill. The following documents are attached to support this request.

1. Letter from Simons, Li & Associates, Inc. (the design engineer for closure of the landfill) dated March 8, 1996. This letter indicates ADWR recommended well I-8 be abandoned because the screened interval extended 35 feet above the water table. (Attachment A)
2. Letter from the Arizona Department of Environmental Quality (ADEQ) dated March 11, 1996 approving the abandonment of wells I-5 (ADWR Registry No. 55-806909) and I-8. (Attachment B)
3. Letter from ADEQ dated July 2, 1996 approving the location of a replacement wells (wells I-5R and I-8R) for wells I-5 and I-8. (Attachment C)
4. Excerpts from the final 19<sup>th</sup> Avenue Landfill Environmental Cleanup Project Remedial Action Report: Construction Complete report dated September 15, 1998. This report is

the official closure document for the 19<sup>th</sup> Avenue Landfill. In the second paragraph of Section 8.1, it is indicated that "Groundwater monitoring well I-8 required replacement because there was an insufficient well seal after finished grade was cut, and the well was installed in refuse." Well I-8 is also listed as being abandoned in Tables 8-1 and 8-2. (Attachment D)

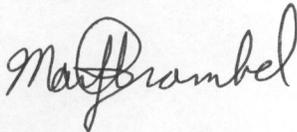
According to the attached documents, well I-8 was abandoned by Layne Environmental Services around the same time as well I-5. ADWR's database includes abandonment records for well I-5. According to ADWR records, Layne abandoned well I-5 by removing the upper 20 feet of casing and filling the total depth of the well with grout slurry using a tremie. Based on the ADWR records for well I-5, it is likely the same method was used to abandon well I-8.

The City of Phoenix has conducted an internal search for records for the well I-8 abandonment. Records regarding the abandonment of well I-8 are attached to this letter. Further, there is no physical visible evidence of the well head at the landfill where well I-8 was located.

Based on the information presented herein, well I-8 was abandoned at the time of the remedial action and the City of Phoenix requests ADWR update the records in its database accordingly.

If you have any questions regarding this matter, please contact Joy Bell at 602-256-5605.

Sincerely,



Jean M. (Marty) Arambel, P.E.  
Project Manager

Attachments

Cc: Chuck Hamstra, City of Phoenix  
Joy Bell, P.E., City of Phoenix  
Chris Jacquemin, P.E., Tetra Tech

**ATTACHMENT A**

**sla** Simons, Li & Associates, Inc.  
Water Resources & Civil Engineering Consultants

(A)

March 8, 1996

Mr. Ron Serio, P.E.  
City of Phoenix Public Works Department  
Solid Waste Management Facility  
3060 South 27th Avenue  
Phoenix, AZ 85009

RE: 19TH AVENUE LANDFILL ENVIRONMENTAL CLEANUP  
City of Phoenix Index No. SA-884163

Dear Ron:

Simons, Li & Associates received a transmittal through Bentson that the Arizona Department of Water Resources recommended that Well I-8 be abandoned. The well perforations for Well I-8 extend above the water table approximately 35 feet which is unacceptable to ADWR.

Layne Environmental Services is scheduled to abandon the well on Monday, March 11, 1996. The well will be abandoned according to R12-15-816 (Abandonment). The cost for abandoning Well I-8 should be on the order of \$2,000.

Please forward a copy of this letter to Nancy Moore at the Arizona Department of Environmental Quality. We need to notify and obtain ADEQ approval prior to notice-to-proceed.

Your expedient action is appreciated. If you have any questions, please contact Bob Eichinger.

Sincerely,

SIMONS, LI & ASSOCIATES, INC.

*Dennis L. Richards*

Dennis L. Richards, P.E.  
Vice President

RAE/hlk

cc: Nancy Moore, ADEQ

[PAZCPH-06]  
mp6001tc01

**ATTACHMENT B**



B

## ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Fife Symington, Governor

Russell F. Rhoades, Director

March 11, 1996  
RPU96,219  
VIA FACSIMILE and U.S. MAIL

E-4010.18.8.1

Mr. Ron Serio, P.E.  
City of Phoenix Public Works Dept.  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

**RE: Approval to Abandon Groundwater Monitoring Wells I-5 & I-8; 19th Avenue  
Landfill Federal Superfund Site; Phoenix, Arizona**

Dear Mr. Serio:

The Arizona Department of Environmental Quality (ADEQ) has completed its review of the City of Phoenix's (City) request to abandon groundwater monitoring wells I-5 and I-8. Although well I-5 was inadvertently abandoned on March 2, 1996, ADEQ had given verbal approval to abandon this well. Well I-8 is scheduled for abandonment on March 11, 1996.

Pursuant to Section VIII.3.C. of the Consent Decree, the City is responsible for maintenance and replacement of all components of the groundwater monitoring well network. Unless a written, mutual agreement can be made, it is ADEQ's understanding that the City will soon submit designs for two replacement groundwater monitoring wells. Also, the City will strive to install these two replacement groundwater monitoring wells in time for the 2nd Quarter 1996 groundwater monitoring sampling scheduled for early April 1996. The City shall notify ADEQ if delays arise which prevent the replacement wells from being installed and sampled during the 2nd Quarter 1996 sampling event.

Under the above conditions, ADEQ hereby approves the request for abandonment of wells I-5 and I-8.

If you have any questions, please do not hesitate to contact me at 207-4180.

Sincerely,

A handwritten signature in cursive script that reads "Nancy Moofe".

Nancy Moofe  
Project Manager  
Remedial Projects Unit

cc: Bob Eichinger, SLA  
Dave Regonini, WTI

**ATTACHMENT C**



(C)

## ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Fife Symington, Governor      Russell F. Rhoades, Director

July 2, 1996  
RPU97,001

E-4010.18.8.1

Mr. Ron Serio, P.E.  
City of Phoenix Public Works Dept.  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

**RE: Approval of Locations for Replacement Groundwater Monitoring Wells for I-5 and I-8; 19th Avenue Landfill Federal Superfund Site; Consent Decree Civil Action 91-0237 PHX RGC**

Dear Mr. Serio:

The Arizona Department of Environmental Quality (ADEQ) has completed its review of the proposed location for the replacement monitoring wells for I-5 and I-8. The locations are acceptable to ADEQ. The replacement well for I-5 will be located at a northing coordinate of 877215.20 feet (ft) and an easting coordinate of 446329.60 ft, which corresponds to 33° 26' 10" latitude and 112° 44' 54" longitude. The replacement well for I-8 will be located at a northing coordinate of 880243.94 ft and an easting coordinate of 444413.56 ft, which corresponds to 33° 25' 09" latitude and 112° 45' 16" longitude.

ADEQ recommends that new well identifications be used, ie. I-5R (R = replacement) and I-8R for clarification purposes. It is ADEQ's understanding that Layne Environmental Services is scheduled to begin installation of the two replacement wells, per Arizona Department of Water Resources specifications, on July 8, 1996. Furthermore, it is ADEQ's understanding that groundwater samples will be collected for the 3rd Quarter 1996 sampling series. If problems arise which make sample collection unfeasible, please inform ADEQ both verbally and in the written quarterly groundwater monitoring report.

If you have any questions, please do not hesitate to contact me at 207-4180.

Sincerely,

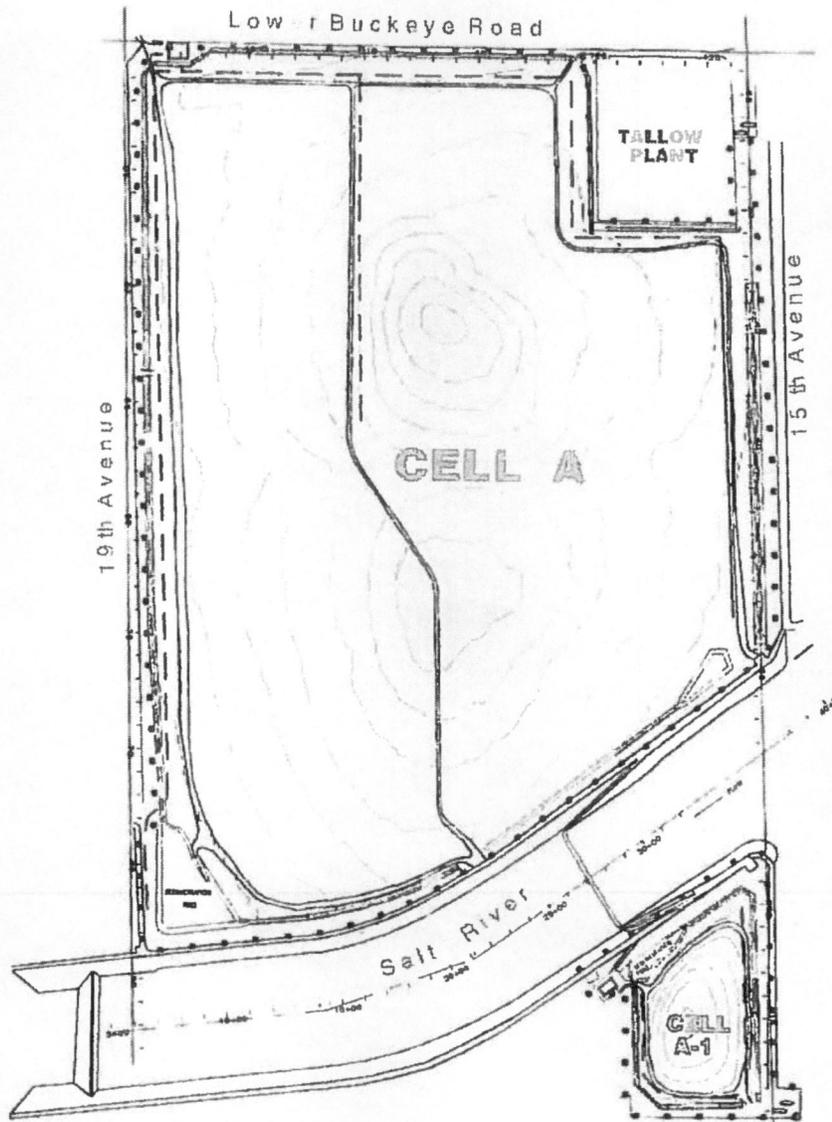
A handwritten signature in cursive script that reads "Nancy Moore".

Nancy Moore  
Project Manager  
Remedial Projects Unit

cc: Bob Eichinger, Simons, Li and Associates  
Dave Regonini, Western Technologies  
David Haag, ADEQ

**ATTACHMENT D**

# 19<sup>TH</sup> AVENUE LANDFILL ENVIRONMENTAL CLEANUP PROJECT REMEDIAL ACTION REPORT: CONSTRUCTION COMPLETE



**CITY OF PHOENIX**  
DEPARTMENT OF PUBLIC WORKS  
SOLID WASTE DISPOSAL  
MANAGEMENT DIVISION INDEX SA-884163

**SIMONS, LI & ASSOC., INC.**  
WATER RESOURCES & CIVIL ENGINEERS  
PROJECT CPH-06  
FINAL SEPTEMBER 15, 1998

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## 8.0 GROUNDWATER CONTINGENCY PLAN

### 8.1 Introduction

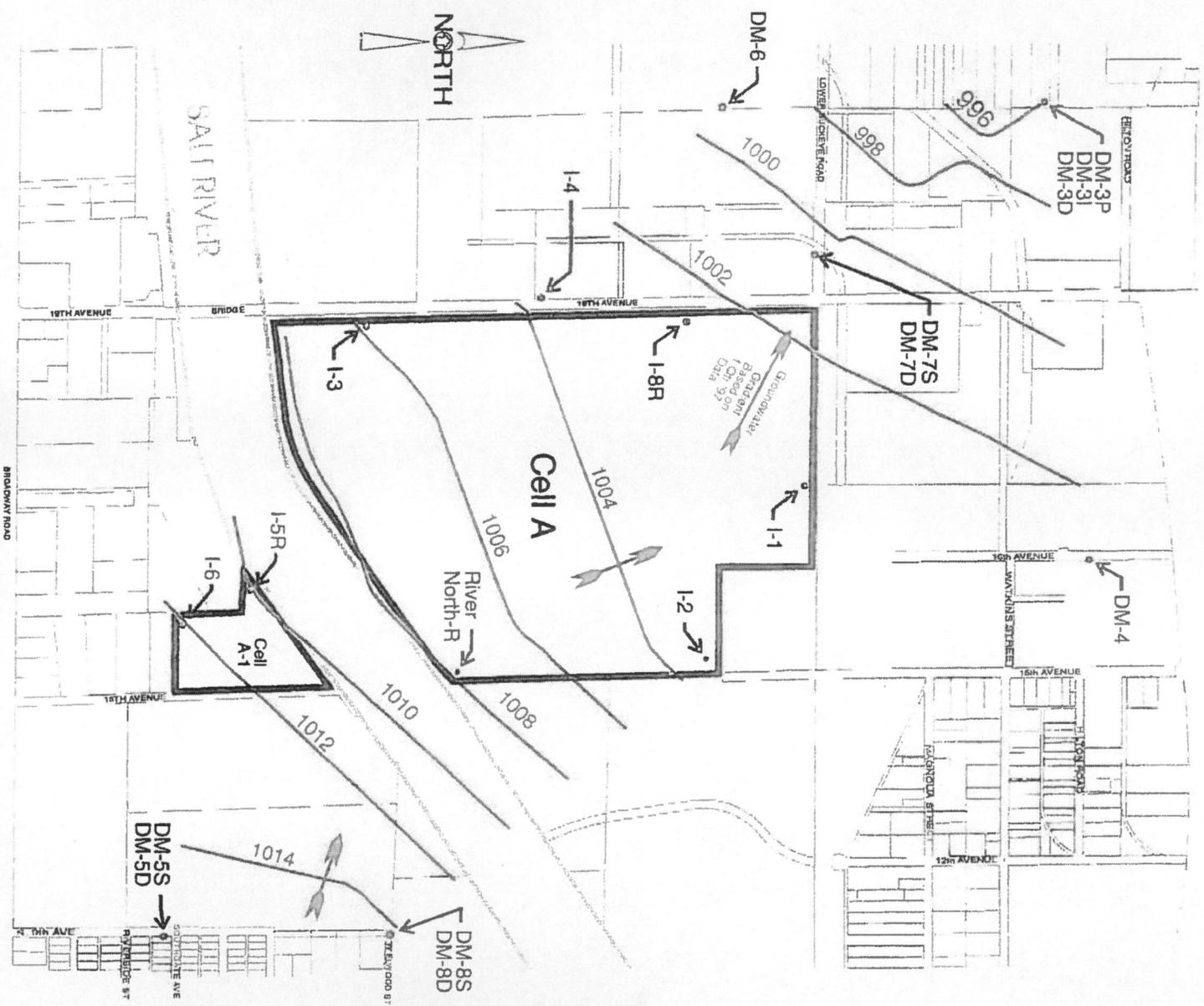
The City presently monitors 18 groundwater monitoring wells in this network quarterly. In the late 1980's, Dames and Moore conducted an RI/FS that showed no significant impact to the groundwater from the landfill; therefore, the ADEQ approved a final remedy with regard to potential groundwater contamination that required quarterly groundwater monitoring and a groundwater contingency plan (GWCP). The GWCP was developed to protect human health and the environment from potential future impacts to the groundwater from the landfill. The GWCP is presented in Section XII of the CD. The GWCP became effective June 30, 1997 after the ADEQ approval of the remedial construction. The GWCP details the triggers for the GWCP, the monitoring schedule, a plan to evaluate potential future degradation of the groundwater, and provides a vehicle for groundwater remediation if the degradation is determined to be attributable to the Site. The groundwater monitoring program (GMP) is presented in Appendix A of the CD. The GMP specifies the analysis for the quarterly sampling rounds each quarter and the additional analysis for the first quarterly sampling round each year. Quarterly samples are analyzed for the constituents specified in the GMP and compared with the threshold levels specified in Appendix B of the CD, and the results are reported quarterly to the ADEQ. The GWCP would be triggered if the average of three quarterly laboratory analytical results of a constituent in a demonstrably down gradient well exceeds the constituent threshold level or a single sample result exceeds three times that threshold level specified in Appendix B of the CD.

Eighteen groundwater monitoring wells and one piezometer well are in this network. The piezometer well and six groundwater monitoring wells are within the site perimeter, Figure 8-1. Four of the 12 off-site locations have multiple wells with different screened interval depths. After the finished grade was built, the on-site wells were to be modified by having the well heads adjusted to the design grade. The well heads of groundwater monitoring wells' I-1, I-3 and I-6 were modified as planned. Groundwater monitoring well I-8 required replacement because there was an insufficient well seal after finished grade was cut, and the well was installed in refuse. Well I-5 had to be replaced due to a break in the casing above the submersible pump confirmed through video logging of the well by Well Scan Inc. Wells I-2 and River North (piezometer well) were both damaged during construction by BCC's earthmoving equipment. BCC was directed to replace these wells at their expense. ADWR issued permits (Appendix E) for both the abandonments and installation of the replacement wells to Layne Christenson Company (BCC's subcontractor). The name of these replacement wells was changed by adding a suffix "R" to denote replacement. Detailed identification and location information for the existing and replacement groundwater wells is presented in Table 8-1, and a summary of construction details is presented in Table 8-2.

### 8.2 Analytical Results

The City has accumulated seven years of laboratory analytical results from groundwater quality sampling of the Site. The results are tabulated by well name for general chemistry, metals and volatile organic compounds. The last two years of results with an average of the eight quarters are included in Appendix A and the previous years are available for viewing at the ADEQ. ADEQ

**FIGURE 8-1**  
Groundwater Monitoring Well  
Location Map



**Table 8-1**  
**Summary of Well**  
**Identification & Location Information**

Well Name	ADWR Registration	ADWR File	Northing	Easting	Elev
<i>Existing and Replacement Wells</i>					
DM-3I	55-516923	A(1-2)13DBD	882691.43	442971.18	1055.34
DM-3D	55-516922	A(1-2)13DBD	882687.76	442967.76	1055.64
DM-3P	55-516924	A(1-2)13DBD	882696.20	442995.32	1055.73
DM-4	55-516921	A(1-3)18CAB	883031.22	446189.00	1060.22
DM-5S	55-516919	A(1-3)19BDD	876583.48	448819.94	1063.73
DM-5D	55-516918	A(1-3)19BDD	876576.93	448819.78	1063.34
DM-6	55-516920	A(1-2)24ABC	880452.47	443028.16	1050.51
DM-7S	55-534371	A(1-2)24AAA	881105.10	444061.57	1051.16
DM-7D	55-534372	A(1-2)24AAA	881102.87	444048.82	1051.29
DM-8S	55-534796	A(1-3)19DAB	878162.06	448827.47	1064.45
DM-8D	55-534797	A(1-3)19DAB	878160.40	448814.84	1064.53
I-1	55-806908	A(1-3)19BAB	881134.40	445656.00	1059.38
I-2R	55-556389	A(1-3)19BAD	880382.89	446984.93	1060.85
I-3	55-502039	A(1-3)19CAC	877935.10	444454.30	1059.17
I-4	55-502038	A(1-2)24ADA	879195.90	444343.00	1054.28
I-5R	55-559326	A(1-3)19CAC	877211.97	446333.01	1059.30
I-6	55-806910	A(1-3)19CAC	876644.64	446569.17	1057.87
I-8R	55-559327	A(1-3)19BBC	880253.63	444427.60	1054.12
River North-R	55-556809	A(1-3)19ACC	878571.62	447105.35	1062.98
<i>Abandoned Wells</i>					
I-2	55-806907	A(1-3)19BAD	880418	446990	1061.08
I-5	55-806909	A(1-3)19CAC	877263	446403	1045.80
I-8	55-502037	A(1-3)19BBC	880229	444506	1057.77
River North	55-807384	A(1-3)19BDD	878572	446952	1048.77

**Table 8-2  
Summary of Well  
Construction**

Well Name	Date Completed	Drilling Method	Well Depth (in feet)	Casing Type	Screen Interval (in feet)
<i>Existing and Replacement Wells</i>					
DM-3D	6/15/87	Mud Rotary	370	6" PVC	280-320
DM-3I	6/26/87	Mud Rotary	232	6" PVC	185-225
DM-3P	6/20/87	Mud Rotary	170	10" PVC	110-150
DM-4	6/19/87	Mud Rotary	170	6" PVC	110-150
DM-5D	8/8/87	Mud Rotary	300	6" PVC	185-225
DM-5S	8/5/87	Mud Rotary	164	6" PVC	110-150
DM-6	6/11/87	Mud Rotary	170	6" PVC	110-150
DM-7D	5/13/92	Casing Hammer	169	6" PVC	153.4-168.4
DM-7S	5/13/92	Casing Hammer	101	6" PVC	59-99
DM-8D	5/13/92	Casing Hammer	179	6" PVC	163.4-178.4
DM-8S	5/13/92	Casing Hammer	99	6" PVC	58.9-98.9
I-1	10/27/79	Casing Hammer	101	4" PVC	32-101
I-2R	9/18/96	Percussion	101	4" PVC	60-100
I-3	12/6/79	Casing Hammer	100	4" PVC	46'-100
I-4	11/3/79	Casing Hammer	102	4" PVC	33-102
I-5R	7/10/96	Percussion Hammer	115	4" PVC	65-115
I-6	11/14/79	Casing Hammer	102	4" PVC	32-102
I-8R	7/11/96	Percussion Hammer	115	4" PVC	65-115
River North-R	10/30/96	Percussion	95	4" PVC	60-95
<i>Abandoned Wells</i>					
I-2	11/7/79	Casing Hammer	101	4" PVC	32-101
I-5	11/16/79	Casing Hammer	100	4" PVC	41-100
I-8	2/2/82	Drilled	100	4" PVC	40-100
River North	unknown	Casing Hammer	82	3" PVC	47-82

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collects a limited number of groundwater samples each quarter. These results are also available for viewing at the ADEQ and in general are not significantly different from the City's results for those wells. During remedial construction, the City continued to collect quarterly groundwater samples from the wells in accordance with the CD. The City was unable to collect samples from two wells damaged during construction. However, once the replacement wells were in place, sampling resumed.

1,1 Dichloroethene (1,1 DCE) has been frequently detected in the Site groundwater monitoring wells for several years of sampling rounds. These detections often exceed the MCLs. DCE has been detected in both the Site up and down-gradient monitoring wells. The greatest detection levels are from wells up-gradient of the Site. Dames & Moore has identified a DCE plume from an unknown source up-gradient of the Site in other groundwater studies conducted in this Salt River area.

Trichloroethene (TCE) is frequently detected in both up and down-gradient Site groundwater monitoring wells. Detections are typically below the MCL with only two exceedances occurring in July 1990 and July 1993 from sampling rounds conducted during a period of 1987 through mid-1997. Since TCE has been detected in up-gradient monitoring wells, the City suspects the source of TCE is likely from an unknown source up-gradient of the Site.

Nitrates have been detected in the Site groundwater monitoring wells. All of the nitrate exceedances are from an up-gradient well and the City suspects that the source of this nitrate is from historical agricultural activity that was common in this area.

Vinyl chloride is frequently detected in the Site groundwater monitoring wells. Most detections have been below the Safe Drinking Water Act (SDWA) maximum contaminant level (MCLs) of 2.0 g/L. Exceedances of the vinyl chloride MCL have occurred during several sampling rounds in 1992, 1993, and 1994. These detections appear to occur in response to flows in the Salt River and the subsequent rises in static water levels in the monitoring wells. Daily flow release data (for years 1962 through 1996) from Granite Reef Diversion to the Salt River were obtained from Salt River Project. These flows in the Salt River have also caused a rise in static water levels in the adjacent wells and detections of vinyl chloride have typically been observed in cross-gradient and down-gradient monitoring wells concurrent with these events. Flows in the Salt River occurred from January through April 1995 and subsequently vinyl chloride was detected for several quarterly sampling rounds from July 1995 to October 1996. The flows in the Salt River in February through April 1987 appear to have resulted in detections of vinyl chloride in March and July 1987.

### 8.3 Inspection and QC Activities

Hydro-Search, Inc. (HSI) provided continuous on-site inspection during the construction of the groundwater monitoring wells. The boring logs of the replacement groundwater monitoring wells are included in Appendix E.

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#### 8.4 As Built Drawings

A list of the As-Built Drawings and the As-Built Drawings of the groundwater monitoring wells for the project are included in Appendix F.

#### 8.5 Operation & Maintenance

Refer to the Operation and Maintenance Manual for details with respect to the operation and maintenance plan specific to the groundwater monitoring wells for the project.

#### 8.6 Summary of Construction Costs

The actual costs of major items of work are presented in Table 8-3. The total cost is 100% of the Engineer's Estimate (see Table 10-1).

**Table 8-3  
Summary of Groundwater  
Monitoring Well Costs**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Cost</b>
1	Mod Existing Grndwtr Monitoring Well	6	7,200 <sup>00</sup>
2	Replace Grndwtr Monitoring Well	2	32,800 <sup>00</sup>
		<b>Total</b>	<b>\$40,000<sup>00</sup></b>

State of Arizona  
DEPARTMENT OF WATER RESOURCES  
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor  
WESLEY E. STEINER, Director

February 11, 1982

City of Phoenix  
251 W Washington  
Phoenix AZ 85003

Registration No. 55-502937  
55-502038  
55-502039

Dear Well Owner:

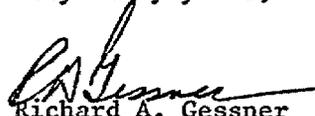
A copy of Notice of Intention to Drill a Well is returned to you for your records. Your driller has been mailed separately a Well Drilling Card, Well Drilling Report, and a Completion Report.

ARS 45-600 requires the driller to furnish this Department a complete and accurate log of the well within 30 days of completion of drilling, and a Completion Report within 30 days after installation of pumping equipment.

Also enclosed for your future use is a Change of Well Information Form. Per ARS 45-593, the person to whom a well is registered shall notify this Department of a change in ownership of the well and information pertaining to the physical aspects of the well to keep the well registration record current and accurate.

In the event it is necessary to change the location of the proposed well, you should obtain the written permission of the Department of Water Resources before proceeding with the drilling.

Very truly yours,

  
Richard A. Gessner  
Chief, Records Section

RAG : ek  
Enclosures

MICROFILMED

Think Conservation!

Office of Director 255-1554

Administration 255 1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,  
Flood Warning Office 255 1548, Water Rights Administration 255 1581, Hydrology 255-1586

DEPARTMENT OF WATER RESOURCES  
99 East Virginia  
Phoenix, Arizona 85004



Registration No. 55-502037  
Owner of Well Site City of Phoenix  
File No. A(1-3)19bbb

COMPLETION REPORT

1. Completion Report to be filed with the Department within 30 days after installation of pump equipment.
2. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.
3. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.
4. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.

LOCATION OF THE WELL

T-In R-3E S19 NW $\frac{1}{4}$ , NW $\frac{1}{2}$ , NW $\frac{3}{4}$

Date Well Completed February 2, 1982 Depth of Well 100 feet

1. Well Test:  
Test Pumping Capacity Monitoring well only Date Well Tested \_\_\_\_\_  
(Gal. per min.)

Method of Discharge Measurement \_\_\_\_\_  
(weir, orifice, current meter, etc.)

Static Groundwater Level \_\_\_\_\_ ft. Drawdown \_\_\_\_\_ ft.

Total Pumping Lift \_\_\_\_\_ ft. Drawdown \_\_\_\_\_ lbs.  
(Flowing Well)

2. Equipment Installed:

Kind of Pump Monitoring well only  
(turbine, centrifugal, etc.)

Kind of Power \_\_\_\_\_ H.P. Rating of Motor \_\_\_\_\_  
(Elec., Nat. Gas, Etc.)

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

N. E. Mehlhorn  
Signature N. E. Mehlhorn  
9002 South Hardy Drive  
Address

February 17, , 19 82  
Date

Tempe, Arizona 85284  
City State Zip

**MICROFILMED**

*Input  
2-24-82  
m.z.*

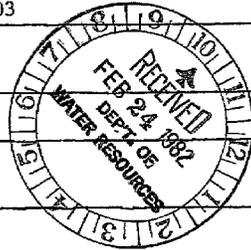
WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner City of Phoenix Name  
251 W. Washington Address Phoenix, AZ 85003

2. Lessee or Operator As above Name  
 Address

3. Driller Drilling Services Company Name  
9002 South Hardy Drive, Tempe, Arizona 85284 Address



4. Location of well: T-IN R-3E S-19 NW¼, NW¼, NW¼

5. Permit No. 52  
 (if issued)

DESCRIPTION OF WELL

6. Total depth of hole 100 ft.

7. Type of Casing Schedule 40 PVC threaded

8. Diameter and length of casing 4 in. from 0 to 100, \_\_\_\_\_ in from \_\_\_\_\_ to \_\_\_\_\_.

9. Method of sealing at reduction points \_\_\_\_\_

10. Perforated from 20 to 40, from 40 to 100, from \_\_\_\_\_ to \_\_\_\_\_

11. Size of ~~cuts~~<sup>holes</sup> 3/8 holes drilled \_\_\_\_\_ Number of ~~cuts~~<sup>holes</sup> per foot 4

12. If screen was installed: Length 60 ft. Diam 4 in. Type Cook PVC .008 cuts

13. Method of construction Drilled  
 drilled, dug, driven, bored, jetted, etc.

14. Date started February 1, 1982  
 Month \_\_\_\_\_ day \_\_\_\_\_ year \_\_\_\_\_

15. Date completed February 2, 1982  
 Month \_\_\_\_\_ day \_\_\_\_\_ year \_\_\_\_\_

16. Depth to water 53 ft. (If flowing well, so state.)

17. Describe point from which depth measurements were made, and give sea-level elevation if available. 1,008 feet sea level

18. If flowing well, state method of flow regulation \_\_\_\_\_

19. REMARKS: This is to be used for a  
monitoring well.  
Well is capped with 10 inch x 18 inch  
long pipe cemented into 2'x 2' concrete  
pad.

DO NOT WRITE IN THIS SPACE  
 OFFICE RECORD  
 Registration No. 55-502037  
 Received \_\_\_\_\_ By \_\_\_\_\_  
 Entered 2-24-82 By M.Z.  
 File No. A(1-3)19bbb

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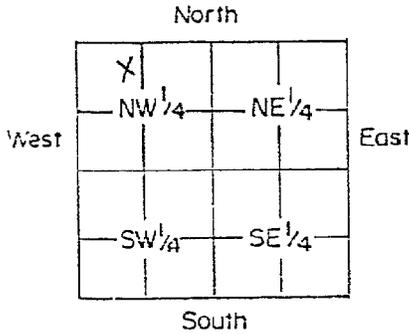
(Well log to appear on Reverse side)



NOTICE OF INTENTION TO DRILL A ~~NON~~ EXEMPT WELL OUTSIDE OF A DESIGNATED ACTIVE MANAGEMENT AREA

FILING FEE: \$3.00

Section 45-596, Arizona Revised Statutes, provides: In an area not subject to Active Management, a person may not drill or cause to be drilled any well or deepen or replace an existing well without first filing a Notice of Intention to Drill with the Department on a form prescribed and furnished by the department. The well shall be completed within one year after the date of notice.



Indicate Well Location by X (Above diagram represents one 640 acre section)

WELL/LAND LOCATION:

- Township 1 North
- Range 3 E
- Section 19
- NW 1/4 NW 1/4 NW 1/4  
10 acre subdivision
- County Marijuana
- Owner of well:  
City of Phoenix  
Name  
251 W. Washington  
Address  
Phoenix, AZ 85003  
City State Zip
- Owner of land:  
Amos Pasqualetti  
Name  
1702 West Flower  
Address  
Phoenix, AZ  
City State Zip

DESCRIPTION OF WELL:

- Diameter 5 1/2  
Depth 100
- Type of casing 4"  
P.V.C
- Principal use of water  
Monitoring Wells
- Other uses intended  
None Water samples
- Construction will start about:  
Feb 1982  
Month Year
- Design pump capacity  
None
- Total number acres  
None  
(If irrigation well)

PLACE OF USE:

- Township \_\_\_\_\_
- Range \_\_\_\_\_
- Section \_\_\_\_\_
- Legal description of land water is to be used on:  
N/A
- Action requested  
Drill   
Deepen \_\_\_\_\_  
Replace \_\_\_\_\_
- This notice filed by:  
Owner \_\_\_\_\_  
Lessee \_\_\_\_\_  
Driller   
Drilling Services Co.  
Name  
9002 S Hardy Drive  
Address  
Tempe AZ 85384  
City State Zip
- Driller's Name:  
Jay Dutton
- Department license number  
52

DO NOT WRITE IN THIS SPACE  
OFFICE RECORD

FILE NO A(1-3)19 bbb  
FILED 2-10-82 BY GR  
INPUT 2-11-82 BY mz  
DUPLICATE MAILED 2-11-82 BY EK  
REGISTRATION NO 55-502037  
AMA NON EXPANSION AREA Phoenix

- Fill out this form in duplicate and mail to P.O. Box 2600, Phoenix, Arizona, 85002, or deliver to 99 East Virginia, Suite 100, Phoenix, Arizona 85004.
- If the non-exempt well is in fact a replacement (or deepening) well, state the registration number of the existing well.
- Construction standards for new and replacement wells and the deepening and abandonment of existing wells shall be in accordance with department rules and regulations.
- This form should also be used to replace or deepen an existing irrigation well in an irrigation non-expansion area. However, water from an irrigation well drilled, deepened or replaced in a non-expansion area may not be used to increase the acreage as authorized by ARS 45-434.

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I, Norman E Melhorn, state that the construction will be under the direct and personal supervision of the well driller designated on this form and that the designated driller holds a contractor's license pursuant to ARS 45-595.

DATE Feb 7, 1982 Signature of person filing [Signature]

Drilling Services Co.  
 9002 S. Hardy Dr.  
 Tempe, AZ 85284

STATE OF ARIZONA  
 DEPARTMENT OF WATER RESOURCES  
 WATER RIGHTS ADMINISTRATION  
 99 EAST VIRGINIA  
 PHOENIX, ARIZONA 85004

FOR: City of Phoenix

RECEIPT

KIND ENTRY	FILE REFERENCE NO
55	502037
	THRU
55	502039

FUND SOURCE	ACCOUNT NO.			INT. ACCT	ITEM DESCRIPTION	RATE	\$ AMOUNT
	AGENCY	CHAPTER	DIV.				
					Filing fee for Notices of Intention to Drill or Deepen an Exempt Well (3)		9.00
					File #A(1-3)19 bbb, Registration #55-502037		
					File #A(1-3)19 bbc, Registration #55-502038		
					File #A(1-3)19 cac, Registration #55-502039		
					Paid Cash		
						WRITER PAYMENT GUESTS 3 CHK NO 0 3@ 3.00 55-1 9.00 TAX 0.00 <b>TOTL 9.00</b> DEN. CASH 9.00	

02-10-82

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TOTAL

\$ # 4361 A 9.00:42