ARIZONA DEPARTMENT OF WATER RESOURCES
Records Management Section
P.O. Box 33589, Phoenix, Arizona 85067-3589
(602) 771-8527 * (800) 352-8488
www.water.az.gov

Well Abandonment Completion Report

- Review instructions prior to completing form
- The drilling firm or single well licensee must file this report within 30 days of completion of abandonment (A.R.S. § 45-594, A.A.C. R12-15-816)

RECEIVED
OCT 1 - 2009
WATER MGMT.

FILE NUMBER: A(1-1) 27 DCD
WELL REGISTRATION NUMBER: 55- 217013

** PLEASE PRINT CLEARLY **

SECTION 1 - ABANDONMENT AUTHORIZATION

Mail To:

Drilling Firm

NAME	DWR LICENSE NUMBER
EARTH-TEC, INC. DBA FOOTHILL ENGINEERING & DEWATERING	
ADDRESS: 905 EAST 3RD STREET	TELEPHONE NUMBER: 951-737-5391
CITY / STATE / ZIP: CORONA, CA 92879-1604	FAX: 951-737-0792

SECTION 2 - REGISTRATION INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL	CONTACT PERSON NAME AND TITLE
FOOTHILL ENGINEERING & DEWATERING	Wendell Bradford
MAILING ADDRESS: 905 E. THIRD STREET	TELEPHONE NUMBER: 951-737-5391
CITY / STATE / ZIP: CORONA, CA 92879	FAX: 951-737-0792

Location of Well

WELL LOCATION ADDRESS (IF ANY): 91st Ave Wastewater Treatment Pl.

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1N	1E	27	SE 1/4	SW 1/4	SE 1/4

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
101	33	001D

LATITUDE			LONGITUDE		
33° Degrees	23' Minutes	31.88" N Seconds	112° Degrees	14' Minutes	34.57" W Seconds

LAND SURFACE ELEVATION AT WELL: 977 Feet Above Sea Level

METHOD OF LATITUDE / LONGITUDE (CHECK ONE)
☐ USGS Quad Map ☒ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE)
☐ NAD-83 ☐ Other (please specify):

SECTION 3

Questions	Yes	No	Explanation :
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated ?		X	IF YES, EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY)
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)		X	IF YES, PLEASE STATE
3. Prior to abandonment, did the well have 20' of surface casing AND 20' of grout in the annular space surrounding the casing ?		X	If No, was the top 20' of casing removed prior to setting the cement plug ? ☐ Yes ☒ No
4. Was the well backfilled above the cement plug ?	X		
5. Was the well casing video logged ?		X	
6. Why was the well abandoned ? Dewatering Complete			

DLT

Well Abandonment Completion Report

WELL REGISTRATION NUMBER
55- 217013

SECTION A ORIGINAL WELL CONSTRUCTION DESIGN

Existing Borehole

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	BOREHOLE DIAMETER (inches)
0	70'	30"

Existing Casing (to the best of your knowledge)

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	OUTER DIAMETER (inches)	MATERIAL TYPE (X) STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	PERFORATION TYPE (X) BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	30'	12"		X									
30'	70'	12		X							X		.030

Condition of casing: ☒ Good ☐ Fair ☐ Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	ANNULAR MATERIAL TYPE (X) NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE GROUT	BENTONITE CHIPS	BENTONITE PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	FILTER PACK SAND	FILTER PACK GRAVEL	FILTER PACK SIZE
0	5'							X				
5	70'										X	#5

Refer to ADWR's Well Abandonment Handbook for additional information.

DEPTH TO WATER: 20 Feet Below Land Surface

DATE ABANDONMENT COMPLETED: 8/31/09

Casing Treatment

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	TREATMENT TYPE (X) SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS THAT WERE ADDED
0	5'				X	
5'	70'					

Sealing or Fill Material

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	MATERIAL TYPE (X) NEAT CEMENT	CONCRETE	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS BENTONITE GROUT	HIGH SOLIDS BENTONITE CHIPS	HIGH SOLIDS BENTONITE PELLETS	SAND	MIXING RATIO by (check one) ☐ Weight ☐ Volume	VOLUME OF MATERIAL USED (cubic feet)
0	5'										
5'	70'		X								55ft³

Actual Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- ☐ Standard Method
- ☐ Alternative 1
- ☐ Alternative 2
- ☐ Alternative 3
- ☒ Alternative 4:
  - ☐ Variance Option
- ☐ Alternative 5:
  - ☐ Variance Option 1
  - ☐ Variance Option 2
- ☐ Other (please specify)

Emplacement Method of Sealing or Fill Material

CHECK ONE

- ☐ Gravity
- ☐ Pressure Grouting
- ☒ Tremie Pumped
- ☐ Other (please specify)

REMARKS

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.

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF QUALIFYING PARTY	DATE
Wendell Bamford		9/22/09

Arizona Department of Water Resources
Information Management Unit
P.O. Box 33589 • Phoenix, AZ 85067-3589
(602) 771-8627 • (800) 352-8488
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RECEIVED
OCT 1 - 2009
WATER MGMT

Well Owner's Notification of Abandonment

NO FEE

- Review the instructions prior to completing the form in black or blue ink.
- 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 1-1 27 DCD
WELL REGISTRATION NUMBER: 55-217013

** PLEASE PRINT CLEARLY **

SECTION 1: DRILLING FIRM

NAME: Foothill Engineering & Dewatering
DWR LICENSE NUMBER: 168
TELEPHONE NUMBER: 951-737-0792
FAX: 951-737-0792
DATE ABANDONMENT COMPLETED: 8/31/09

SECTION 2: LOCATION OF WELL

WELL LOCATION ADDRESS (IF ANY): 91st Ave Wastewater Treatment Pl.

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1N	1E	27	SE ¼	SW ¼	SE ¼

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
101	33	001-D

COUNTY WHERE WELL IS LOCATED: Maricopa

SECTION 3: OWNER INFORMATION

Well Owner	Landowner (if different from Well Owner)
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: Foothill Engineering & Dewatering	FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: City of Phoenix
MAILING ADDRESS: 905 E. Third St.	MAILING ADDRESS: 5216 S 83rd Ave
CITY / STATE / ZIP CODE: Corona CA. 92879	CITY / STATE / ZIP CODE: Phoenix AZ 55043
CONTACT PERSON NAME AND TITLE: Wendell Bimpson	CONTACT PERSON NAME AND TITLE: Rick Shane
TELEPHONE NUMBER: 951-737-5391	TELEPHONE NUMBER: 602-495-7685
FAX: 951-737-0792	FAX: 602-495-5843

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: 9/22/09

DLT

ENTERED

Arizona Department of Water Resources
Information Management Section
3550 N. Central Ave. γ Phoenix, Arizona 85012
(602) 771-8627 γ (800) 352-8488
www.water.az.gov

RECEIVED
SEP 2 2008
INFO MGMT

Well Driller Report and Well Log

SEP - 5 2008
MO

- Review instructions prior to completing form
- This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.

FILE NUMBER
A (1-1) 27 DCD
WELL REGISTRATION NUMBER
55 - 217013
PERMIT NUMBER (IF ISSUED)
59-217011

** PLEASE PRINT CLEARLY **

SECTION 1. REGISTRY INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL
Foothill Engineering & Dewatering

MAILING ADDRESS
905 E Third St.

CITY / STATE / ZIP CODE
Corona, CA. 92879

CONTACT PERSON NAME AND TITLE
Wendell Bingham

TELEPHONE NUMBER: 951-737-5391
FAX: 951-737-0792

Location of Well

WELL LOCATION ADDRESS (IF ANY)
91st Ave Wastewater Treatment Pl.

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1N	1E	27	SE ¼	SW ¼	SE ¼

LATITUDE: 33 ° 23 ' 31.8 "N
LONGITUDE: 112 ° [illegible] 14 ' 3457 "W

LAND SURFACE ELEVATION AT WELL
972 Feet Above Sea Level

METHOD OF LATITUDE / LONGITUDE (CHECK ONE) ☐ Hand-Held
☐ USGS Quad Map ☒ Conventional Survey ☐ GPS: ☐ Survey-Grade

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
101	33	001-D

COUNTY WHERE WELL IS LOCATED
Maricopa

SECTION 2. DRILLING AUTHORIZATION

Drilling Firm

NAME
Foothill Engineering

DWR LICENSE NUMBER
168

TELEPHONE NUMBER: 951-737-5391
FAX: 951-737-0792

SECTION 3. WELL CONSTRUCTION DETAILS

DATE WELL CONSTRUCTION STARTED
1/26/08

DATE WELL CONSTRUCTION COMPLETED
3/1/08

IF FLOWING WELL, METHOD OF FLOW REGULATION
☐ Valve ☐ Other:

Drill Method

CHECK ONE
- ☐ Air Rotary
- ☐ Bored or Augered
- ☐ Cable Tool
- ☐ Dual Rotary
- ☐ Mud Rotary
- ☐ Reverse Circulation
- ☐ Driven
- ☐ Jetted
- ☐ Air Percussion / Odex Tubing
- ☒ Other *(please specify)*: Bucket Rig

Method of Well Development

CHECK ONE
- ☐ Airlift
- ☐ Bail
- ☐ Surge Block
- ☒ Surge Pump
- ☐ Other *(please specify)*:

Method of Sealing at Reduction Points

CHECK ONE
- ☐ None
- ☐ Packed
- ☐ Swedged
- ☐ Welded
- ☐ Other *(please specify)*:

Water Level Information

STATIC WATER LEVEL
34' Feet Below Land Surface

DATE MEASURED
1/26

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 217013

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

Borehole

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	BOREHOLE DIAMETER (inches)
0	70'	30"

Installed Casing

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	OUTER DIAMETER (inches)	MATERIAL TYPE (T) STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	PERFORATION TYPE (T) BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	30'	12"		X									
30'	70'	12"		X							X		.030

Installed Annular Material

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	ANNULAR MATERIAL TYPE (T) NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE GROUT	BENTONITE CHIPS	BENTONITE PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	FILTER PACK SAND	FILTER PACK GRAVEL	FILTER PACK SIZE
0	5'							X				
5	70'										X	PeaGravel

DEPTH OF BORING 70' Feet Below Land Surface

DEPTH OF COMPLETED WELL 70' Feet Below Land Surface

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 217013

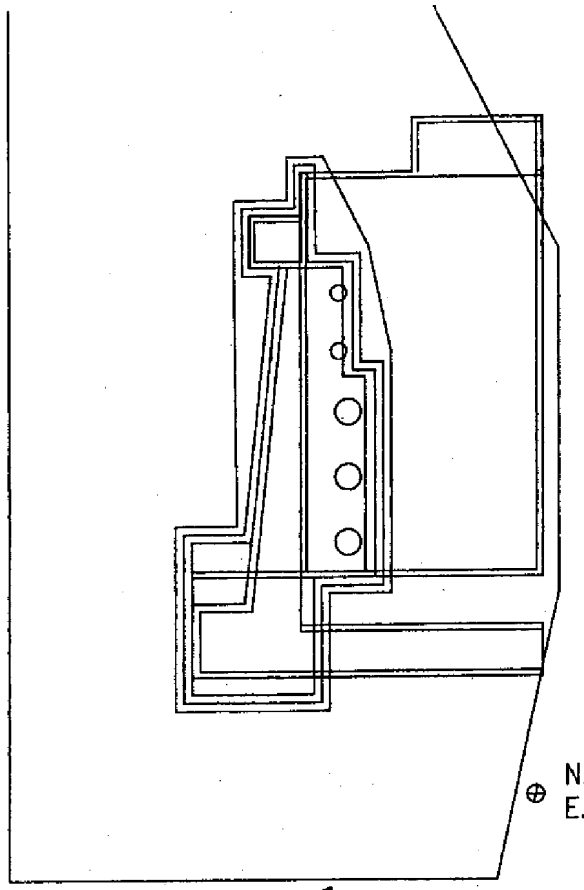
SECTION 5. GEOLOGIC LOG OF WELL

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	Description Describe material, grain size, color, etc.	Check (✓) every interval where water was encountered (if known)
0	67	Sand Gravel Cobbles & Boulders	
67	100'	Clay.	

33 23 32.81776
112 N 38.34436
N. 870444.802
E. 600099.026

33 23 31.88037
112 N 38.34517
N. 870380.382
E. 600098.750

33 23 31.14543
112 14 38.3436
N. 870306.100
E. 600098.416



N. 870284.518
E. 600235.898
33 23 30.93615
112 14 36.72397

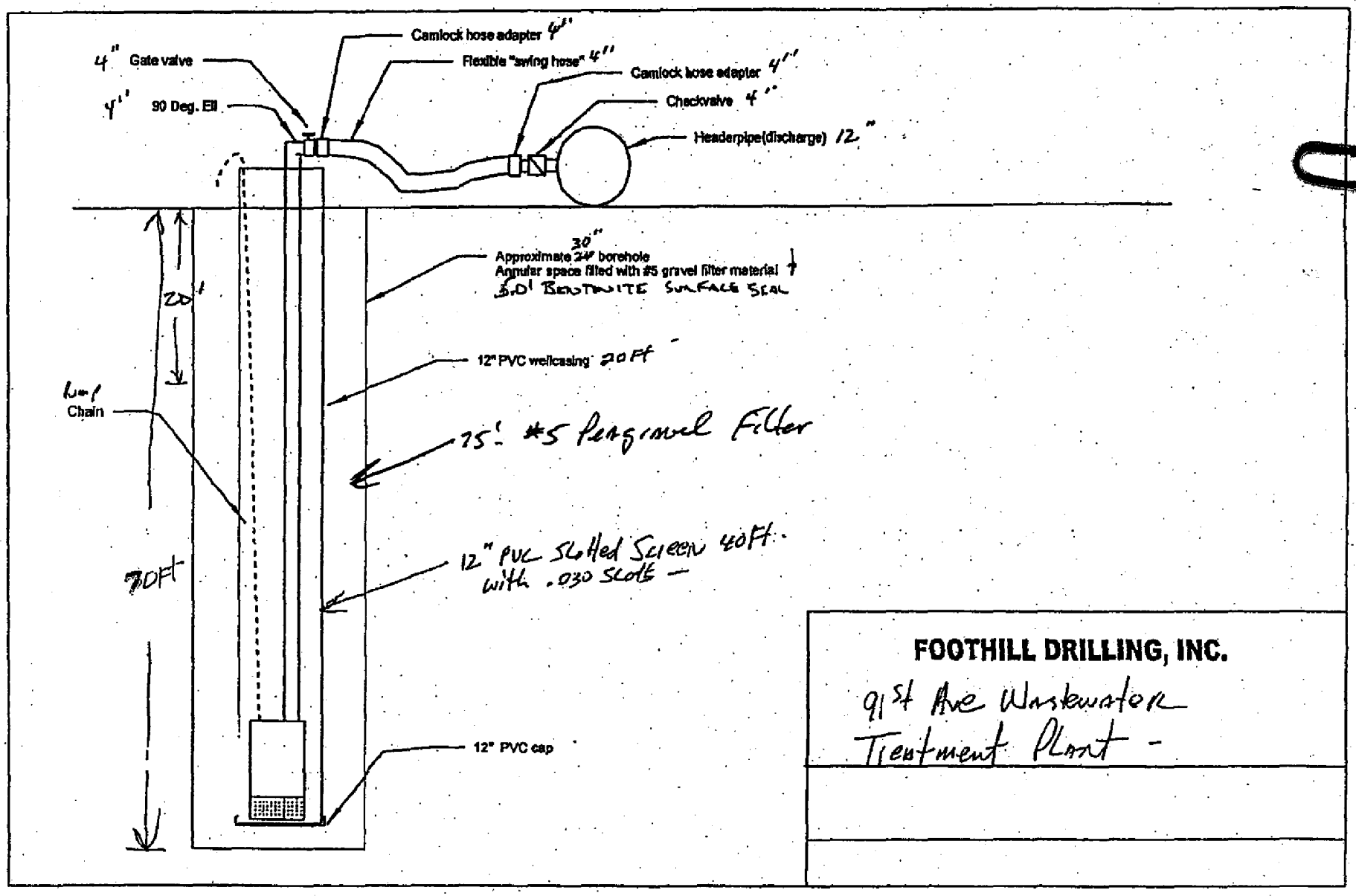
N. 870258.820
E. 600164.736
33 23 30.67947
112 14 37.56237

This Well Not Drilled.

REV	DATE	DESCRIPTION	BY
1			

PCL

UP05 PROJECT A
PHOENIX, AZ
EXCAVATION LIMITS
TITLE ROW 2
001
N.T.S. 12/4/07 001


4" Gate valve
Camlock hose adapter 4"
Flexible "swing hose" 4"
Camlock hose adapter 4"
4" 90 Deg. Ell
Checkvalve 4"
Headerpipe(discharge) 12"
30"
Approximate 24" borehole
Annular space filled with #5 gravel filter material
5.0' BENTONITE SURFACE SEAL
20'
12" PVC wellcasing 20 Ft
1 or 1
Chain
75' #5 Pea gravel Filter
70Ft
12" PVC Slotted Screen 40Ft.
with .030 slots
12" PVC cap
FOOTHILL DRILLING, INC.
91st Ave Wastewater
Treatment Plant -

ARIZONA DEPARTMENT OF WATER RESOURCES

PERMIT TO WITHDRAW GROUNDWATER FOR

TEMPORARY DEWATERING

PURSUANT TO A.R.S. § 45-518

PERMIT NO. 59-217011.0000

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

This is to certify that Application No. 59-217011.0000 meets the requirements of Title 45, Chapter 2, Article 7, Arizona Revised Statutes, for a Temporary Dewatering Permit. The Director hereby grants the applicant a permit to withdraw groundwater for temporary dewatering pursuant to A.R.S. § 45-518, subject to the following limitations and conditions:

Permit Limitations

Permittee:	Foothill Engineering & Dewatering, Inc. 905 E. Third Street Corona, CA 92879
Active Management Area:	Phoenix
Sub-basin:	West Salt River Valley

PERMIT NO. 59-217011.0000

Maximum Amount of Groundwater to be Withdrawn: 2,700 acre feet per annum

Authorized Disposition of Groundwater Withdrawn: Discharge into the Salt River

Authorized Points of Withdrawal or Measurements:

Authorized Well Registration Numbers:	File Numbers:	Depth of Well	Casing Diameter	Casing Material
55-217012	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217013	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217014	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217015	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217016	A (1-1) 27 DCD	70 feet	12 inches	PVC

Effective Date of Permit: February 20, 2008

Expiration Date of Permit: October 19, 2009

Permit Conditions

1. If the permitted wells are not completed on or before October 19, 2009 the Permittee will be required to file a new application, and secure a new permit before proceeding with construction.

2. The permittee shall monitor and measure withdrawals of groundwater and shall report the total amount of groundwater withdrawn on an Annual Water Withdrawal and Use Report. The first annual reporting period shall be from the date of issuance of this permit through December 31, 2008 or the expiration date of the permit, whichever comes first.

3. The issuance of the permit does not waive any federal, state, county or local government ordinances, regulations or permits for which the facility may have to comply.

4. The wells drilled for this project shall be drilled in compliance with the Arizona Department of Water Resources minimum well construction standards, A.A.C. R12-15-811. The variances, covering the use of PVC well screens and casings and allowing for

the use of 5 ft. bentonite tablet well seals, are granted contingent upon prompt, legal abandonment of the wells pursuant to A.A.C. R12-15-816 upon termination of the permit.

WITNESS my hand and seal of office this 25th day of February, 2008.

Sandra Fabritz-Whitney, Assistant Director

ARIZONA DEPARTMENT OF WATER RESOURCES

PERMIT TO WITHDRAW GROUNDWATER FOR

EMERGENCY TEMPORARY DEWATERING

PURSUANT TO A.R.S. § 45-518

PERMIT NO. 59-217010.0000

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

This is to certify that Application No. 59-217010.0000 meets the requirements of Title 45, Chapter 2, Article 7, Arizona Revised Statutes, for an Emergency Temporary Dewatering Permit. The Director hereby grants the applicant a permit to withdraw groundwater for emergency temporary dewatering pursuant to A.R.S. § 45-518, subject to the following limitations and conditions:

Permit Limitations

Permittee:	Foothill Engineering & Dewatering Inc. 905 E. Third Street Corona, CA 92879
Active Management Area:	Phoenix
Sub-basin:	West Salt River Valley

PERMIT NO. 59-217010.0000

Maximum Amount of Groundwater to be Withdrawn: 2700 acre feet

Authorized Disposition of Groundwater Withdrawn: Discharge into the Salt River

Authorized Points of Withdrawal or Measurements:

Authorized Well Registration Numbers:	File Numbers:	Depth of Well	Casing Diameter	Casing Material
55-217012	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217013	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217014	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217015	A (1-1) 27 DCD	70 feet	12 inches	PVC
55-217016	A (1-1) 27 DCD	70 feet	12 inches	PVC

EFFECTIVE DATE OF PERMIT: December 28, 2007

EXPIRATION DATE OF PERMIT: The permit will expire at such time the conditions that gave rise to the issuance of this Emergency Temporary Dewatering Permit no longer exist or until a Temporary Dewatering Permit is issued or denied.

Permit Conditions

1. The permittee shall monitor and measure withdrawals of groundwater and shall report the total amount of groundwater withdrawn on an Annual Water Withdrawal and Use Report. The first annual reporting period shall be from January 1, 2008 through December 31, 2008 or the expiration date of the permit, whichever comes first.

2. The issuance of the permit does not waive any federal, state, county or local government ordinances, regulations or permits for which the facility may have to comply.

3. The well drilled for this project shall be drilled in compliance with the Arizona Department of Water Resources minimum well construction standards, A.A.C. R12-15 811.

WITNESS my hand and seal of office this 28th day of December, 2007.

Sandra Fabritz-Whitney, Assistant Director

ARIZONA DEPARTMENT OF WATER RESOURCES
WATER MANAGEMENT DIVISION

3550 North Central Avenue
Phoenix, Arizona 85012

VARIANCE GRANTED

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-217012 through 55-217016 **PERMIT NO.:** 59-217011

AUTHORIZED DRILLER: FOOTHILL ENGINEERING & DEWATERING INC. **LICENSE NO:** 168

AUTHORITY TO DRILL A NON-EXEMPT WELL(s) INSIDE THE PHOENIX ACTIVE MANAGEMENT AREA FOR TEMPORARY DEWATERING PURPOSES HAS BEEN GRANTED TO:

WELL OWNER: FOOTHILL ENGINEERING & DEWATERING INC. 905 E. THIRD STREET CORONA, CA 92879

The well(s) is/are to be located in the:

SE ¼ of the SW ¼ of the SE ¼ Section 27 Township 1 North Range 1 East

No. of well(s) in this project: 5

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 19th DAY OF OCTOBER, 2009.

Sandra Fabrick-Whitney

WATER MANAGEMENT DIVISION

THE DRILLER MUST FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

ARIZONA DEPARTMENT OF WATER RESOURCES
3550 North Central Avenue, Phoenix, Arizona 85012
Telephone 602 771-8585
Fax 602 771-8688

Janet Napolitano
Governor

Herbert R. Guenther
Director

December 28, 2007

Foothill Engineering & Dewatering Inc.
Attention: Wendell Bradford
905 E. Third Street
Corona, CA 92879

RE: Permit to Withdraw Groundwater for Emergency Temporary Dewatering
Permit No. 59-217010.0000
Well Registration Numbers 55-217012 through and including 55-217016

Dear Permittee:

Your permit as referenced above is enclosed for your records. This permit is being issued to you for your emergency situation and will provide authorization for you to begin to operate for your construction project. This permit will terminate once the emergency conditions no longer apply or at such time as the Department officially approves or denies your application for Temporary Dewatering Application No. 59-217011.0000, which is currently under consideration.

The request for variance of these wells is granted contingent upon prompt, legal abandonment of the wells pursuant to the Minimum Construction Standards. Please note that anyone wishing to use Alternative 4 (Variance Option) for an abandonment method per A.A.C. R12-15-816, must first apply to the ADWR for a variance from the well abandonment rule.

Should your construction project be finished prior to the time that the Temporary Dewatering permit has been approved or denied, you may officially withdraw the application from further consideration by this Department. If legal noticing has been commenced, you will be required to pay the actual cost of publication of the notice for this project pursuant to the provisions of A.A.C. R12-15-151.C. even if you choose to withdraw the application.

Pursuant to the provisions of A.R.S. § 45-604, any person withdrawing groundwater must use a water-measuring device to record the rates of withdrawal in order to provide or allow the computation of an annual volume of pumpage. The total volume of pumpage from all measuring points shall be reported on an Annual Water Withdrawal and Use Report. An Annual Report shall be mailed to you after January 10, 2008 for withdrawals occurring within calendar year 2007. You will be required to file an Annual Report for both the Emergency and the Temporary Dewatering Permits. If the Temporary Dewatering Permit is withdrawn or denied, all

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withdrawals from these wells and/or sump pumps must be reported on the Annual Report for the Emergency Permit.

The Department has issued this Emergency Temporary Dewatering permit pursuant to A.R.S. § 45-518 of the Groundwater Code. The legal nature of the water withdrawn may be the subject of court action in the future as part of a determination of surface water rights in your area. If there are court proceedings that could affect your wells and/or sump pumps, you will be notified and be given the opportunity to participate.

If you have any questions about your permit, please contact Tana Zachreson at 602-771-8585.

Sincerely,

Vanessa Reyes

Vanessa Reyes
Water Resource Specialist

Enclosures

cc: Tana Zachreson, Phoenix AMA
File

Printed on recycled paper. Each ton of recycled paper saves 7,000 gallons of water.

ARIZONA DEPARTMENT OF WATER RESOURCES
HYDROLOGY DIVISION – WATER QUALITY UNIT

MEMORANDUM

TO: Vanessa Reyes, Phoenix AMA
Sharon Ward, Phoenix AMA
Tana Zachreson, Phoenix AMA
Kevin Crago, Phoenix AMA

FROM: Dani Williams
Water Quality Unit

DATE: December 19, 2007

SUBJECT: Application for Permit to Withdraw Groundwater for Temporary/ Emergency Dewatering in an AMA
Application 59-217010 & 217011 Well 55-217012-55-217016
Foothill Engineering & Dewatering Inc.

Hydrology has reviewed the above referenced application for a permit to withdraw groundwater for water quality concerns and well construction for conformance to Arizona well construction standards.

Water Quality

1. The wells are not near an area of known groundwater contamination that is being remediated pursuant to an U.S. Environmental Protection Agency, Arizona Department of Environmental Quality (ADEQ), or Department of Defense program.

2. According to the ADEQ Groundwater Database, sample results from wells located within one mile of the proposed well exceed the primary maximum contaminant level (MCL) for nitrate (as NO3), secondary MCLs in total dissolved solids, chloride and sulfate, and the Arizona Health Based Guidance Level (HBGL) for Vanadium. No other water quality data are readily available.

Well Construction Standards

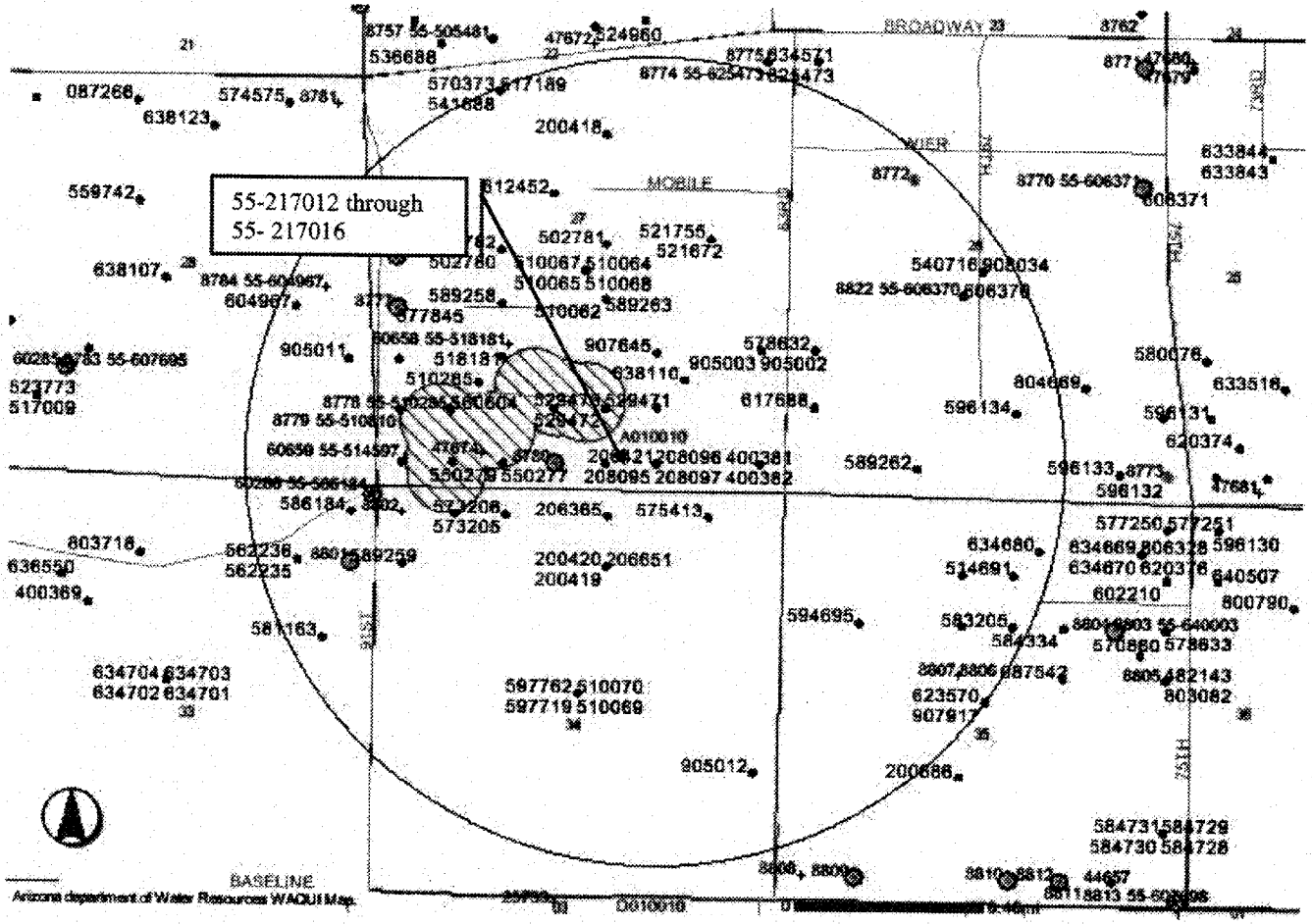
3. The wells will be drilled to 70 feet below the land surface and screened from 40 to 70 feet. The wells will be completed in the upper alluvial unit. The wells meet minimum well construction standards and note the variances of the use of PVC well screens and casings and the use of 5 ft. bentonite tablet well seals. No special well construction requirements are necessary.

The Hydrology Water Quality Unit has no objections to approving this permit. If additional information is needed, please contact me at extension 1-8555.

C: Alene McCracken, Hydrology
Enclosure Water Quality map
Water Quality Table

Printed on recycled paper. Each ton of recycled paper saves 7,000 gallons of water.

59-217010 (EMERGENCY DEWATERING) & 59-217011 55-217012 -217016
FOOTHILLS ENGINEERING & DEWATERING INC
PERMIT TO WITHDRAW GROUNDWATER FOR TEMORARY DEWATERING PURPOSES WITHIN AN AMA
A (1-1) 27 DCD



Working Together

Arizona Department of Environmental Quality

Arizona Department of Water Resources

Map generated on 12/19/2007

Water Quality Sample Test Results for ADEQ Wells

Information provided is preliminary and subject to revision.

It may not represent the full extent of known water quality concerns.

Legend
- Highlighted Feature
- theBufferPolygons
- theBufferTarget
- ADEQ Wells
- Wells > HBGL
- Wells > Secondary MCL
- Wells > MCL
- No Exceedance
- REGISTERED WELLS
- Streets
- Sections
- Townships
- GWR LUST Buffer
- RCRA Site Buffer

59-217010 (Emergency Dewatering) 59-217011 55-217012-16 Foothills Engineering Dewatering Inc
Permit to Withdraw Groundwater for Temporary Dewatering within an AMA
D(1-1) 27 DCD

ADEQ Wells

Rec	Results	Units	Detection Limits	Detection Limit Units	MCL	MCL Units	MCL2	MCL2 Units	Sample Date	Parameter Name	HBGL	HBGL Units	DEQ Well	Registry ID
22	1792	mg/L		mg/L			500	mg/L	JUN 07 1984	(TDS) RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)			8800	55-607694
23	1639	mg/L		mg/L			500	mg/L	JUN 06 1986	(TDS) RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)			8800	55-607694
24	2286	mg/L		mg/L			500	mg/L	AUG 17 1987	(TDS) RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)			8800	55-607694
25	1973	mg/L		mg/L			500	mg/L	JUL 26 1988	(TDS) RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)			8800	55-607694
26	1914	mg/L		mg/L			500	mg/L	AUG 21 1990	(TDS) RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)			8800	55-607694
1	840	mg/L		mg/L			250	mg/L	JUN 19 1980	CHLORIDE,TOTAL IN WATER			8801	
5	557.96	mg/L		mg/L			250	mg/L	JUL 27 1984	CHLORIDE,TOTAL IN WATER			8800	55-607694
6	669.62	mg/L		mg/L			250	mg/L	AUG 22 1986	CHLORIDE,TOTAL IN WATER			8800	55-607694
7	875.93	mg/L		mg/L			250	mg/L	AUG 18 1987	CHLORIDE,TOTAL IN WATER			8800	55-607694
10	675	mg/L		mg/L			250	mg/L	AUG 17 1987	CHLORIDE,TOTAL IN WATER			8800	55-607694
11	558	mg/L		mg/L			250	mg/L	JUN 07 1984	CHLORIDE,TOTAL IN WATER			8800	55-607694
12	679	mg/L		mg/L			250	mg/L	JUN 06 1986	CHLORIDE,TOTAL IN WATER			8800	55-607694
13	659.58	mg/L		mg/L			250	mg/L	JUL 26 1988	CHLORIDE,TOTAL IN WATER			8800	55-607694
14	691	mg/L		mg/L			250	mg/L	AUG 21 1990	CHLORIDE,TOTAL IN WATER			8800	55-607694
27	470	mg/L		mg/L			250	mg/L	JUL 03 1980	CHLORIDE,TOTAL IN WATER			8772	
91	1100	mg/L		mg/L			250	mg/L	JUL 01 1980	CHLORIDE,TOTAL IN WATER			8780	
93	3	ug/L	3	ug/L					JUL 01 1980	COBALT, DISSOLVED (AS CO)	0.7	ug/L	8780	
15	62	mg/L		mg/L	45	mg/L			AUG 22 1986	NITRATE NITROGEN,TOTAL (AS NO3)			8800	55-607694
16	62	mg/L		mg/L	45	mg/L			JUN 06 1986	NITRATE NITROGEN,TOTAL (AS NO3)			8800	55-607694
17	49.61	mg/L		mg/L	45	mg/L			JUL 26 1988	NITRATE NITROGEN,TOTAL (AS NO3)			8800	55-607694
2	310	mg/L		mg/L			250	mg/L	JUN 19 1980	SULFATE, TOTAL (AS SO4)	400	mg/L	8801	
8	435.18	mg/L		mg/L			250	mg/L	JUL 27 1984	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
9	422.67	mg/L		mg/L			250	mg/L	AUG 18 1987	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
18	435	mg/L		mg/L			250	mg/L	JUN 07 1984	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
19	423	mg/L		mg/L			250	mg/L	AUG 17 1987	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
20	312.19	mg/L		mg/L			250	mg/L	JUL 26 1988	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
21	257	mg/L		mg/L			250	mg/L	AUG 21 1990	SULFATE, TOTAL (AS SO4)	400	mg/L	8800	55-607694
92	330	mg/L		mg/L			250	mg/L	JUL 01 1980	SULFATE, TOTAL (AS SO4)	400	mg/L	8780	
4	8	ug/L		ug/L					JUN 19 1980	VANADIUM, DISSOLVED (AS V)	7	ug/L	8801	

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- 217013

1. Well Location:

   SE ¼ (10AC) of the SW ¼ (40AC) of the SE ¼ (160AC), Sec. 27, Township 1 Range 1 East.

2. Position Location of the Well:

   Latitude 33 ° 23 · 30.47907 Longitude 112 ° 14 · 37.58237

   Datum: • NAD 83 • NAD 27 • Other: _____

3. County Maricopa.

4. Date construction to start: JAN 16, 2008.

5. Time period well will remain in use: _____.

6. Is pump equipment to be installed? Yes. If so, design pump capacity: 500 GPM.

7. Well construction plan:

   a. Drilling method (mud rotary, hollow-stem auger, etc.) Bucket Auger.

   b. Borehole diameters 30" inches from 0 feet to 70' feet.

   _____ inches from _____ feet to _____ feet.

   c. Casing materials 12" PVC.

   d. Method of well development (bail, air lift, surge, etc.) Air Lift & Surge.

   e. Will surface or conductor casing extend above grade? No.

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):

   Cement Bentonite Grout

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? X Yes ____No The Wells are Located inside the 91st Ave WWTP

11. Is this well to monitor existing contamination? ____Yes X No

Potential contamination?____Yes X No If yes, please provide explanation:____

_____

12. Name of Consulting firm, if any: _____

_____

Address City State Zip

Contact Person:_____Telephone Number:_____

13. Drilling firm Foothill Engineering & Dewatering Inc.

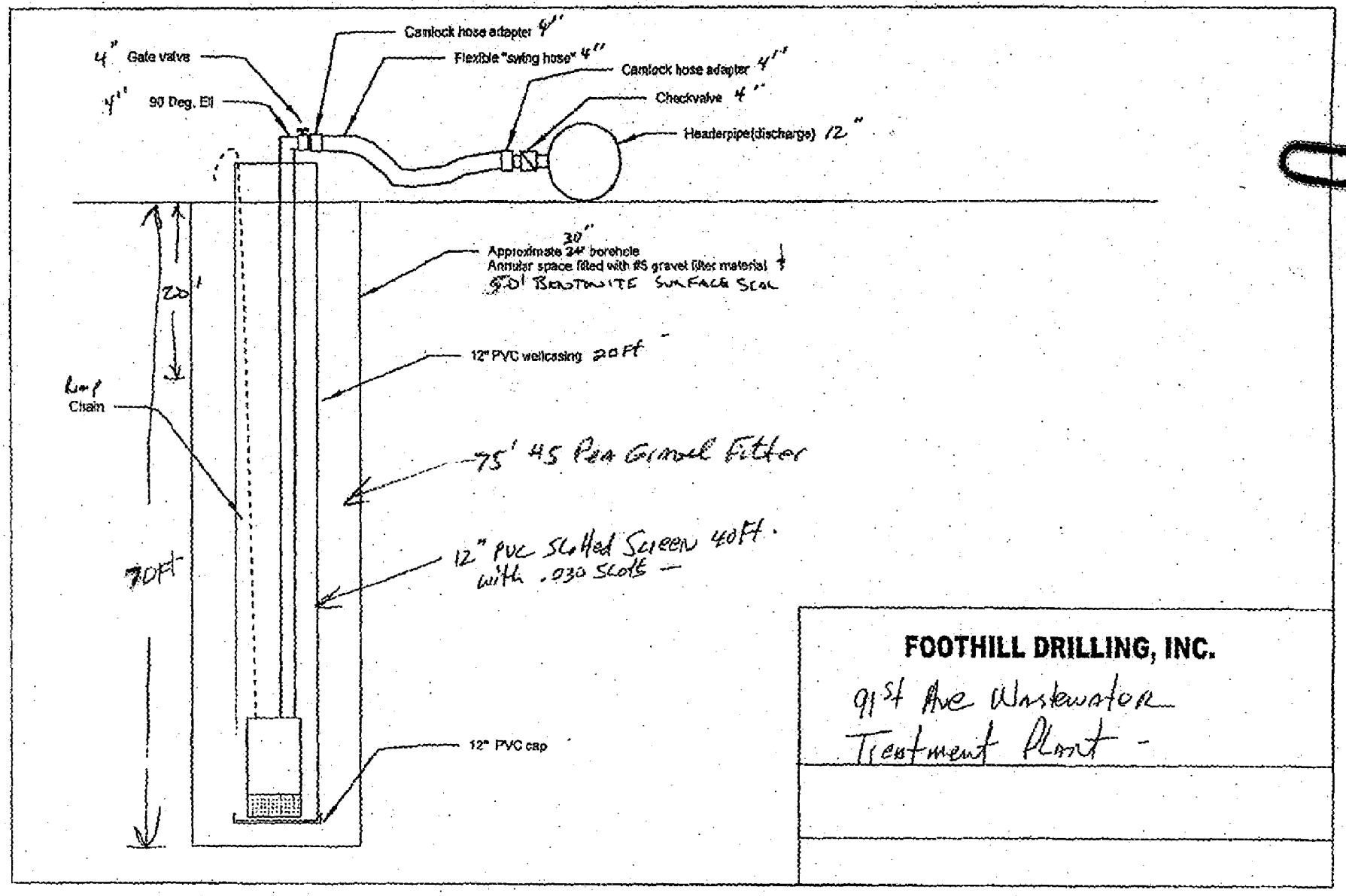
DWR License Number: 168 ROC License Category: Jetting, Driving ~~Boring & Augering~~

14. Special construction standards, if any, required pursuant to A.A.C. R12-15-821:_____

We request a variance per attached Detail

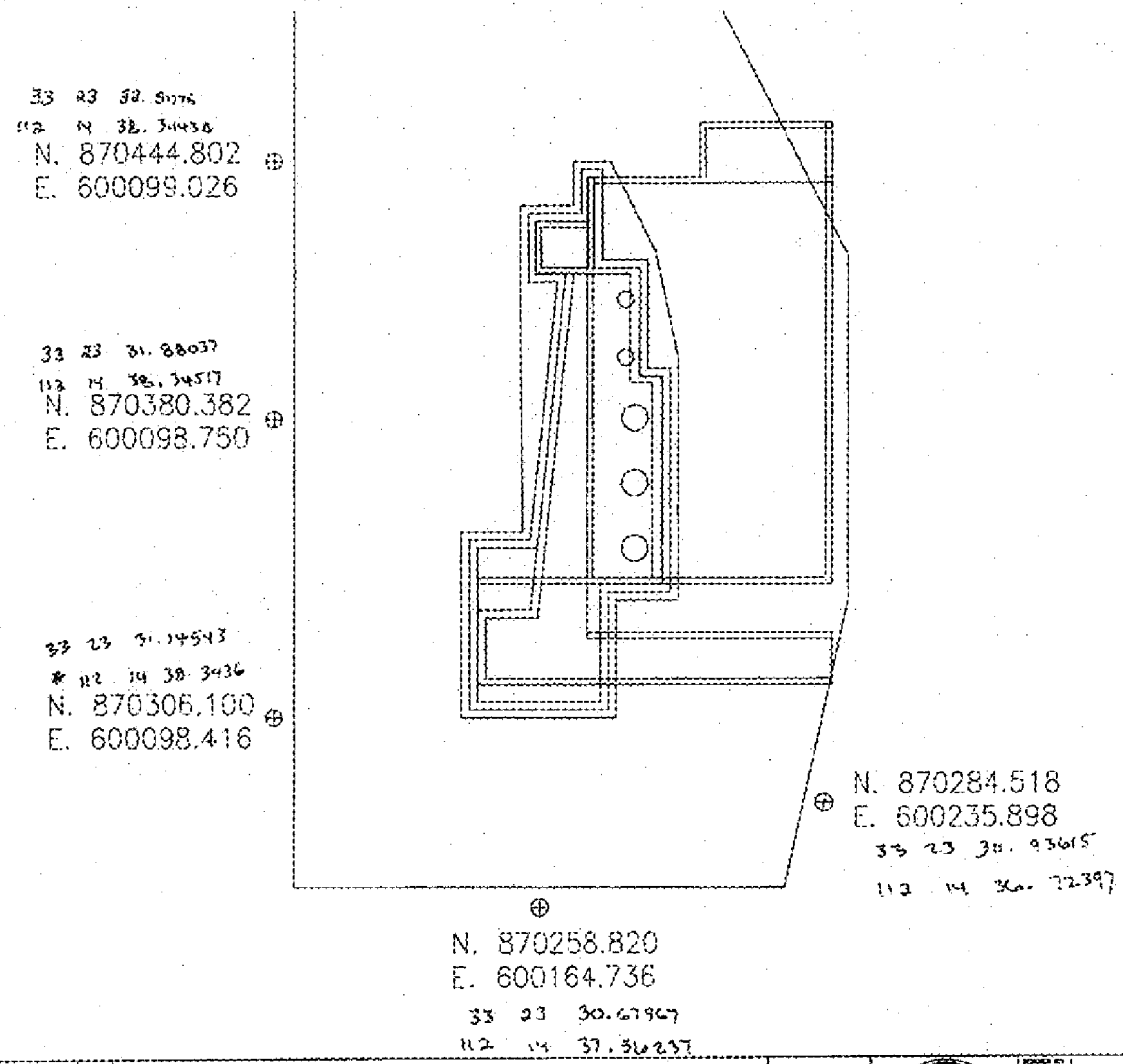
I (we), Wendell Beresford (print name) hereby affirm that all information provided in this application is true and correct to the best of my/our knowledge and belief.

Signature of Applicant _____ Date 12/10/07



FOOTHILL DRILLING, INC.

91st Ave Wastewater Treatment Plant -



UP05 PROJECT A
PHOENIX, AZ

EXCAVATION LIMITS
SITE BOW 2

001

ARIZONA DEPARTMENT OF WATER RESOURCES

WATER MANAGEMENT DIVISION
MAIL TO: P.O. BOX 33589, PHOENIX, ARIZONA 85067-3589
3550 North Central Avenue, Phoenix, Arizona 85012
Phone (602) 771-8585 • Fax (602) 771-8688

RECEIVED
DEC 17 2007
PHOENIX AMA

APPLICATION FOR PERMIT TO WITHDRAW GROUNDWATER FOR TEMPORARY DEWATERING PURPOSES WITHIN AN ACTIVE MANAGEMENT AREA (A.R.S. § 45-518)

I. INSTRUCTIONS:

1. COMPLETE ALL APPROPRIATE ITEMS ON THIS APPLICATION AND SIGN IN DESIGNATED PLACE.
2. Mail to P.O. Box 33589, Phoenix, Arizona 85067-3589 or hand deliver to the above address.
3. Pursuant to A.R.S. § 45-113 the application fee is $60.00
4. Pursuant to A.R.S. § 45-113 the permit fee is $50.00 and will be requested prior to issuance of permit.
5. Use explanatory section on back for clarification.

FOR DEPARTMENT USE ONLY

Application/Permit No. 59-217010
Filed 12/17/2007
AMA Phoenix
S/B West Salt River W/S Salt River

II. GENERAL DATA

1. Name of Applicant Foothill Engineering & Dewatering Inc

905 E. Third St. Corona, CA 92879 951-737-5391 Mailing
Address City State Zip Telephone Number

2. TYPE OF TEMPORARY DEWATERING PERMIT (check only one box):

o Dewatering permit necessary for the construction or structural integrity of improvements on the land from which the groundwater is proposed to be withdrawn. (This dewatering must be consistent with the AMA Management Plan).

X An emergency dewatering permit to avoid property damage or inordinate expense or delay. A dewatering permit application of the first type above must be on file with the Department and under consideration. This emergency permit will terminate if the conditions that gave rise to its issuance no longer apply or if the above-mentioned dewatering permit is issued or denied, pursuant to A.R.S. § 45-518.D.

o An extension of a dewatering permit of the types above. State application or permit #: _____
The condition of the original permit must still apply and the water withdrawn pursuant to this extension must be used beneficially by persons who would otherwise be permitted to use groundwater legally. A permit can be extended for 5 years. Continued dewatering must not harm any person permitted to withdraw or use groundwater.

3. Groundwater will be withdrawn within the West Salt River sub-basin of the Phoenix Active Management Area.

4. State your plan for disposing of the groundwater withdrawn: Discharge to Salt River

5. If different from No. 1, state legal description, and owner's name and mailing address, of land on which the applicant proposes to dispose of the groundwater: 91st Ave Wastewater Treatment Plant
Legal Description

City of Phoenix 5645 83rd Ave Phoenix AZ 85043
Owner Mailing address City State Zip

6. Describe why dewatering is necessary for construction or structural integrity of improvements on the land where groundwater is proposed to be withdrawn: It is Necessary to Dewater For Construction Excavations extending below water tables.

7. Total amount of groundwater for which application is being made: 2700 acre feet. If this application is approved and a permit is granted, accurate and current records of groundwater withdrawal must be maintained, annual pumping reports must be submitted, and annual withdrawal fees must be paid to ADWR, pursuant to A.R.S. § 45-632.

8. Proposed duration of the dewatering: 240 days _____ months.

9. Groundwater to be withdrawn by means of:

A. Wells already in existence:

Registration Number	Location	Depth	Diameter of Casing	Casing Material
55-_____	_____	_____	_____	_____
55-_____	_____	_____	_____	_____

(B) New Wells:
Complete and attach Well Construction Supplement, DWR Form 55-90, for each new well.

C. Trench or Sand Points (describe here):

_____

_____

10. State your plans for the dewatering facilities (wells, etc.) after dewatering is completed. If a well is to be abandoned, this must be done by a licensed driller. Driller's name, mailing address, DWR Number and Registrar of Contractors License Category required here:

NAME OF DRILLER:

Foothill Engineering & Dewatering Inc. - 951-737-5391
Name Telephone Number

905 E. Third St. Corona Ca 92879
Mailing Address City State Zip Code

DWR License Number: 168 ROC License Category: Jetting, Driving, Boring & Augering

Explanatory: _____

_____

It is understood that the Permit, if granted, will be issued in accordance with the Groundwater Code, Title 45, Chapter 2). The permittee will be bound by the provisions of such law and the provisions of the Permit issued.

I (we), Foothill Eng. & Dewatering (Print Name) hereby affirm that all information provided in this application is true and correct to the best of my/our knowledge.

Signature of Applicant(s) _____ Date 12/10/07

ARIZONA DEPARTMENT OF WATER RESOURCES
WATER MANAGEMENT DIVISION
MAIL TO: P.O. BOX 33589, PHOENIX, ARIZONA 85067-3589
3550 North Central Avenue, Phoenix, Arizona 85012
Phone (602) 771-8585 • Fax (602) 771-8688

RECEIVED
DEC 17 2007
PHOENIX AMA

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2. Mail to P.O. Box 33589, Phoenix, Arizona 85067-3589 or hand deliver to the above address.
3. Pursuant to A.R.S. § 45-113 the application fee is $50.00
4. Pursuant to A.R.S. § 45-113 the permit fee is $50.00 and will be requested prior to issuance of permit.
5. Use explanatory section on back for clarification.

FOR DEPARTMENT USE ONLY
Application/Permit No. 59-217011
Filed 12/17/07
AMA Phoenix
S/B West Salt River W/S Salt River

II. GENERAL DATA

1. Name of Applicant Foothill Engineering & Dewatering Inc

905 E. Third St Corona, CA 92879 951-737-5391 Mailing
Address City State Zip Telephone Number

2. TYPE OF TEMPORARY DEWATERING PERMIT (check only one box):

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Legal Description
City of Phoenix 5615 83rd Ave Phoenix AZ 85043
Owner Mailing address City State Zip

6. Describe why dewatering is necessary for construction or structural integrity of improvements on the land where groundwater is proposed to be withdrawn: It is necessary to Dewater For Construction Excavations extending below water tables.

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NAME OF DRILLER:

Foothill Engineering & Dewatering Inc - 951-737-5391
Name Telephone Number

905 E. Thing St. Corona Ca 92879
Mailing Address City State Zip Code

DWR License Number: 168 ROC License Category: Jetting, Driving Boring & Augering

Explanatory: _____

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I (we), Foothill Eng. & Dewatering hereby affirm that all information provided in this application
(Print Name) is true and correct to the best of my/our knowledge.

Signature of Applicant(s) _____ Date 12/10/07