

APPENDIX F

**INVESTIGATIVE DERIVED WASTE DOCUMENTATION
FIRST QUARTER 2014**



City of Phoenix
WATER SERVICES DEPARTMENT
ENVIRONMENTAL SERVICES DIVISION

February 13, 2014

Mr. Arthur Gordon
Project Manager
Terranext LLC
4050 East Cotton Center Boulevard, Suite 73.
Phoenix, Arizona 85040

RE: Manhole Entry & Temporary Discharge Permit, West Van Buren WQARF site.

Dear Mr. Gordon:

The Environmental Services Division (ESD) received your application on February 3rd, 2014, which requests permission to discharge approximately 10,640 gallons of well purge water to the City of Phoenix Sanitary Sewer at Manholes № 9-11-302, 9-13-207, 9-16-202, 9-23-203, 9-26-310, 10-23-111 and 11-16-302.

Approval is hereby granted for the discharge of approximately 10,640 gallons of well purge from the above site into the City of Phoenix Sanitary Sewer. The discharge's via the City of Phoenix Sanitary Sewer at Manholes № 9-11-302, 9-13-207, 9-16-202, 9-23-203, 9-26-310, 10-23-111 and 11-16-302 is expected to occur some time during the time period of March 10 through March 31, 2013. In order to avoid hydraulic overloading of the sewer mains in the area, this discharge shall not exceed a flow rate of 100 gallons per minute.

It appears that the 10,640 gallons of well purge water will meet the requirements under Chapter 28 of the Phoenix City Code. The well purge water is also determined not to be of sufficient quantity to injure or interfere with any sewage treatment process, cause corrosive structural damage, constitute a hazard to humans, or create any hazard to the sewer system, or in the receiving waters of the sewage treatment plant.

Please submit a final status report to ESD within 10 (ten) days of discharge. This report shall include the date of discharge, time of day the discharge occurred, and the total gallons of wastewater discharged.

Should you have any questions, contact me at 602-534-2078, from 6:30 a.m. to 3:00 p.m., Monday through Friday.

Respectfully,

A handwritten signature in black ink, appearing to read "Roger Vail", written over a large, stylized circular flourish.

Roger Vail
Senior Water Quality Inspector

Enclosure: Temporary Discharge & Manhole Entry Permit
Document № 14ESD-57

c: John Cummings, Chief Water Quality Inspector



City of Phoenix
WATER SERVICES DEPARTMENT
ENVIRONMENTAL SERVICES DIVISION

TEMPORARY DISCHARGE & MANHOLE ENTRY PERMIT

The City of Phoenix, acting through the Water Services Department, hereby issues a Temporary Discharge and Manhole Entry Permit (Permit) to:

Terranext
4050 East Cotton Center Boulevard, Suite 73
Phoenix, Arizona 85040

Hereinafter called Permittee, for the purpose of entering City of Phoenix manholes № 9-11-302, 9-13-207, 9-16-202, 9-23-203, 9-26-310, 10-23-111 and 11-16-302 in Phoenix, Arizona, to dispose of well purge water from West Van Buren WQARF Site.

The Permit is issued in accordance with Phoenix City Code Chapter 28 Sections 28-8 and 28-27 and subject to the following conditions:

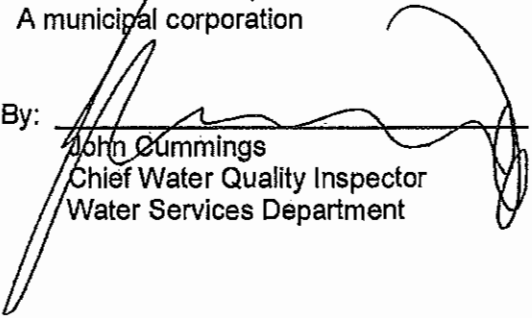
1. That the only activities authorized by the permit are for the disposal of well purge water generated from West Van Buren WQARF Site. The Permittee shall conduct no other activity while entering upon the public property authorized by this permit.
2. That the Permittee's activities are conducted only within the time period March 25 through March 29, 2014 unless authorized in writing by the Water Services Director for an extension of time, or unless revoked earlier, and that the Permittee notify the Water Services Department in advance of each separate entry.
3. Permittee shall measure and record the flow of the well purge water discharged to manholes № 9-11-302, 9-13-207, 9-16-202, 9-23-203, 9-26-310, 10-23-111 and 11-16-302. All flow data recorded shall be submitted to the Environmental Services Division within ten (10) days of completion.
4. Permittee shall measure and record the pH of the well purge water discharged to Manholes № 9-11-302, 9-13-207, 9-16-202, 9-23-203, 9-26-310, 10-23-111 and 11-16-302. All pH data recorded shall be submitted to the Environmental Services Division within ten (10) days of completion.
5. That the Permittee obtain a street closure permit for restrictions of all streets, sidewalks, and alleys. Manholes located in major streets require street closure. Please contact the City of Phoenix Street Transportation Department Right-of-Way Management at (602) 262-6235 for street closure procedures and a permit.
6. That the Permittee, when finished with the removal and discharge activities, replace to the satisfaction of the Water Services Director, any manhole covers or other disturbances to the City of Phoenix sewer lines that Permittee caused during the course of Permittee activities. That the Permittee agrees to save and hold harmless, the City, any of its departments, agencies, officers or employees from all costs and damages occurred by any of the above from any damage to any person or property whatsoever which is caused by the activity, condition or event arising out of the negligent performance or nonperformance of any of the provisions of this permit by the Permittee, any of the Permittee's agents, or any of the Permittee's independent contractors. The above costs incurred by the City, any of its departments, agencies, officers or employees shall include in the event of any action, court cost, expensive litigation and reasonable attorney fees. When any of the above costs and/or damages occurs as aforesaid, the

Permittee assumes the burden of proof that the negligent activity, condition or event did not cause such cost damage or other expense the City may incur.

The Permittee agrees to the conditions set forth in this permit, and understands that all activities conducted under the conditions of this permit should conform to the laws of the City of Phoenix and the State of Arizona.

Dated this 13th day of February
CITY OF PHOENIX,
A municipal corporation

By:



John Cummings
Chief Water Quality Inspector
Water Services Department



A Woman Owned Business Enterprise

4050 E. Cotton Center Blvd., Suite 73, Phoenix, AZ 85040

April 14, 2014

Terranext Project No. 03103154

Mr. Roger Vail
Water Services Department
Pollution Control Division
2474 S. 22nd Avenue, Bldg 31
Phoenix, Arizona 85009

Re: Notification of Discharge of Groundwater into the City of Phoenix Sanitary Sewer

Dear Mr. Vail:

Terranext, on behalf of the Arizona Department of Environmental Quality (ADEQ), discharged purged groundwater into the following City of Phoenix sanitary sewer manholes:

- #207 in quarter section 9-13
- #302 in quarter section 9-11
- #202 in quarter section 9-16
- #111 in quarter section 10-23
- #203 in quarter section 9-23

Discharge was performed from March 10 through 27, 2014 in general accordance with the February 13, 2014 manhole entry permit obtained from your office. Purge water was transferred to the sanitary sewer with a transfer pump and via gravity. The attached tables indicate which manholes were utilized for specific wells, times, and days. It also displays how many gallons were discharged into each manhole.

Terranext appreciates your time and cooperation regarding the manhole entry permit. If you have any questions regarding this information or require additional information, please call.

Sincerely,

Terranext

Arthur Gordon
Project Manager

Discharge Details					
Wells	Total Gallons	QS-MH	Intersection	Date	Time
		9-23-203	25TH Ave/Lincoln		
AVB124-02	550			3/10/2014	1450
AVB131-01	375				1500
AVB126-02	400				1200
AVB126-03	745				1345
AVB136-01	530			3/11/2014	1100
AVB121-02	470				1300
AVB137-01	480				1500
AVB141-01	500			3/14/2014	745
AVB106-01	15			3/24/2014	1400
AVB12-01	35				
AVB73-01	15				
AVB71-01	110				
AVB74-01	40				
AVB91-01	20			3/25/2014	1500
AVB145-01	55				
AVB75-01	35				
AVB135-01	50				
AVB92-01	15				
AVB93-01	10				
AVB88-01	40				
AVB125-01	95				
AVB69-02R	40				
AVB97-01	35				
AVB143-01	100			3/26/2014	1435
AVB14-01	15				
AVB70-01	30				
AVB140-01	80				
AVB116-01	90				
AVB131-02	85				
AVB15-01	10				
AVB72-01	35				
AVB108-01	40				
AVB112-05	50			3/27/2014	1510
PS-9	25				
PS-7	30				
PS-6	30				
AVB126-01	65				

Wells	Total Gallons	Discharge Details		Date	Time
		QS-MH	Intersection		
		9-11-302	71ST Ave/Sherman		
AVB91-03	740			3/12/2014	1300
AVB139-01	600			3/13/2014	815

Wells	Total Gallons	Discharge Details		Date	Time
		QS-MH	Intersection		
		9-16-202	55TH Ave/Buchanan		
AVB122-03	690			3/12/2014	1500