

**CLOSEOUT  
RECORD OF DECISION  
TYSON WASH WQARF REGISTRY SITE  
QUARTZSITE, ARIZONA**

**Arizona Department of Environmental Quality  
1110 West Washington Street  
Phoenix, Arizona 85007**



**May 17, 2017**

**Tyson Wash WQARF Registry Site  
Closeout Record of Decision**

**APPROVAL PAGE**

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## **TABLE OF CONTENTS**

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<b>1.0</b>	<b>DECLARATION</b>	<b>1</b>
1.1	Site Name and Location	1
1.2	Purpose	1
1.3	Assessment of the Site	1
1.4	Description of the Selected Remedy	1
<b>2.0</b>	<b>DECISION SUMMARY</b>	<b>2</b>
2.1	Tyson Wash WQARF Registry Site	3
2.2	Source Area Definition	4
2.3	Chronology of Site Activities	4
2.4	Potentially Responsible Party Investigation	6
<b>3.0</b>	<b>SELECTED REMEDY</b>	<b>6</b>
3.1	Achievement of Remedial Action Criteria Pursuant to ARS §49-282.06	7
3.2	Compliance with Arizona Administrative Code (A.A.C.)	7
<b>4.0</b>	<b>CONCLUSIONS</b>	<b>8</b>
<b>5.0</b>	<b>REFERENCES</b>	<b>9</b>

### **APPENDIX A FIGURES**

- Figure 2-1 Site Location  
Figure 2-2 Site Map  
Figure 3-1 February 14, 2017 PCE Concentrations  
Figure 3-2 May 2017 PCE Concentrations

### **APPENDIX B TABLES**

- Table 3-1 Historical High and Most Recent VOC Concentrations, Tyson Wash WQARF Site  
Table 3-2 Summary of Detected VOCs, Tyson Wash WQARF Site  
Table 3-3 Community Involvement and Public Comment Requirements

## **1.0 DECLARATION**

### **1.1 Site Name and Location**

This Closeout Record of Decision (ROD) is for the Tyson Wash Water Quality Assurance Revolving Fund (WQARF) Registry Site (the Site), located in La Paz County, Quartzsite, Arizona (Figure 2-1).

### **1.2 Purpose**

Consistent with Arizona Administrative Code (A.A.C.) R18-16-410(B)(8), the Arizona Department of Environmental Quality (ADEQ) has reviewed the remedy and determined that site Remedial Objectives (ROs) have been met and that cleanup levels have been achieved. This Closeout ROD demonstrates that the site ROs used to evaluate the selected remedial action for volatile organic compound (VOC) contaminated groundwater at the Tyson Wash WQARF site have been achieved. The decision in this Closeout ROD is based upon previous activities and investigations conducted and performed at this Site.

### **1.3 Assessment of the Site**

The Site was characterized by the presence of tetrachloroethene (PCE) and trichloroethene (TCE) in soil vapor and groundwater at the Welcome RV Park, former Hi-Ali Motel, and the Cast property (Braswell Laundromat) located in Quartzsite, Arizona. Releases of PCE and TCE impacted the groundwater at the Tyson Wash site. Both of these contaminants are currently below Aquifer Water Quality Standards (AWQSSs).

In 1995, PCE concentrations in a private well at the Welcome RV Park, were detected at 200 micrograms per liter ( $\mu\text{g}/\text{L}$ ), exceeding the AWQS of 5.0  $\mu\text{g}/\text{L}$  and posing a threat to public health. As part of an Early Response Action (ERA), a groundwater pump and treat system consisting of five extraction wells and two granular activated carbon (GAC) canisters were placed on the Welcome RV Park property. ADEQ provided bottled drinking water to the private well owners, from June 1999 to March 2002, when all residents were connected to the deep aquifer municipal water supply and private production wells were no longer utilized. No Town of Quartzsite public drinking water wells have been threatened by the shallow Tyson Wash WQARF site contamination plume.

### **1.4 Description of the Selected Remedy**

Pump and treat technology was selected as the remedy for the Tyson Wash WQARF site because it met the following criteria:

- Adequately assured the protection of public health and welfare and the environment;

- To the extent practicable, provided for the control, management and cleanup of the PCE and TCE contamination, maximizing beneficial use of the groundwater; and
- Was reasonable, necessary, cost-effective and technically feasible.

During 2014, pump and treat technology was augmented by in-situ chemical oxidation (ISCO) to expedite completion of remediation. Detected concentrations of PCE and TCE have been below their respective AWQSs since the February 2017 and May 2017 groundwater sampling events. Historical groundwater monitoring data suggests that pump and treat technology, in addition to ISCO, achieved cleanup of the site to concentrations below AWQSs. The formation of additional contaminants of concern (COCs), such as vinyl chloride, have been monitored to ensure that restoration of the groundwater has been accomplished, ROs have been achieved, and the Site will be delisted.

## 2.0 DECISION SUMMARY

The Tyson Wash WQARF site is located northwest of the intersection of State Highway 95 and Business Route Interstate 10, in the Town of Quartzsite, La Paz County, Arizona. (Figure 2-1). The Site plume boundary consisted of a north-trending area, defined by the areal extent of the former tetrachloroethene (PCE) groundwater plume, which was bounded by Sunset Street to the north, Main Street (Business I-10) to the south, Central Boulevard (SR-95) to the east, and Oregon Avenue to the west with the known groundwater contamination existing northwest of the intersection of State Highway 95 and Business Route I-10 (Figure 3-1). The approximate geographic coordinates of the Site are 33° 40'05.00" north latitude, and 114° 13' 08.67" west longitude, in the SE 1/4 of Section 21, and the NE 1/4 of Section 28, Township 4 North, Range 19 West, as shown on the Quartzsite, Arizona U.S. Geological Survey 7.5 minute Topographic Map.

The historical COCs in groundwater include PCE and TCE. Results of historical groundwater analyses indicate that the groundwater was contaminated with PCE at levels as high as forty times the AWQS of 5.0 µg/L, and to a lesser degree TCE. In 1995, the maximum concentration of PCE detected in groundwater was 200 µg/L and the maximum concentration of TCE detected was 6.2 µg/L. The AWQS for PCE and TCE is 5.0 µg/L. PCE concentrations exceeded the standard at seven private wells, five of which were utilized for drinking water and threatened seven additional wells, posing a threat to public health. In June 1999, as part of an ERA, ADEQ provided bottled drinking water to the private well owners until they were connected to the deep aquifer municipal water supply.

On May 14, 2003, ADEQ completed the Remedial Objectives Report (RO) (ADEQ, 2003). On June 30, 2003, the Remedial Investigation (RI) report was completed (MACTEC, 2003), and on June 23, 2007 the Feasibility Study (FS) report was completed (MACTEC, 2007) pursuant to Arizona Revised Statutes (A.R.S.) §49-287.03.

The RI report:

- Established the nature and extent of the contamination and the sources thereof;
- Identified current and potential impacts to public health, welfare, and the environment;

- Identified current and reasonably foreseeable uses of land and waters of the state; and
- Obtained and evaluated information necessary for identification and comparison of alternative remedial actions.

The FS report used the information collected as part of the RI to:

- Identify a reference remedy and alternative remedies that appear to be capable of achieving remedial objectives (ROs); and
- Evaluate remedies based on the comparison criteria to select a remedy that complies with A.R.S. §49-282.06.

ADEQ used the evaluation of remedial alternatives discussed in the FS report to choose a remedial method. ADEQ then prepared the June 2, 2008 Proposed Remedial Action Plan (PRAP) (MACTEC, 2008) pursuant to A.R.S. §49-287.04 that included:

- A description of the chosen remedy;
- How the remedy would achieve each of the ROs identified in the RI report;
- How accomplishment of the ROs was to be measured; and
- A description of the use of the remediated water as defined in A.R.S. §49-287.01.

The issuance of the June 29, 2009 ROD, for the Tyson Wash WQARF site, specified pump and treat technology as the selected remedy. The ROD indicated that achievement of cleanup criteria would be met by the year 2032. To accelerate cleanup, ISCO was implemented in 2014 and documented in the 2015 Periodic Review document. Based upon groundwater contaminant concentrations across the site, PCE and TCE concentrations have been effectively reduced to below their respective AWQSs at all monitoring points within the Tyson Wash WQARF site. Upon remedy review, response actions conducted at the Tyson Wash WQARF site indicate that no further remedial actions are necessary to protect human health and the environment.

## **2.1 Tyson Wash WQARF Registry Site**

The investigation at the Tyson Wash WQARF site was initiated, by ADEQ, after a Leaking Underground Storage Tank (LUST) investigation in 1993 indicated PCE at 39 µg/L and TCE at 0.7 µg/L. In August 1995, ADEQ expanded the investigation of the groundwater VOC plume at the Tyson Wash WQARF Site. The investigation was expanded to include the Hi-Ali Motel/Laundromat and the Welcome RV Park in order to determine the areal extent of the PCE and TCE plumes.

The listing was based on discovery of contamination at the Tyson Wash WQARF Site and subsequent searches for facilities that used VOCs in their operations. The 1997 preliminary assessment by the ADEQ Preliminary Assessment/Site Inspection (PASI) Unit indicated a release of PCE to the vadose zone of the underlying shallow upper aquifer. Subsequent Site sampling events provided no indication of non-aqueous liquids in soils or groundwater at the Site. VOC concentrations exceeding ADEQ soil remediation levels (SRLs) have not been reported in any soil samples collected during the remedial investigation (ADEQ, 2009).

In May 1998, ADEQ identified the Welcome RV Park as a potential hazardous waste site. The Site was placed on the WQARF Registry List on December 14, 1998, with an E & E score of 46 out of a possible 120. A comprehensive groundwater monitoring program was initiated by ADEQ that involved the sampling of additional wells in the surrounding area.

## **2.2 Source Area Definition**

The Site is located northwest of the intersection of State Highway 95 and Business Route Interstate 10 in the Town of Quartzsite, La Paz County, Arizona (Figure 2-1). The geographic coordinates of the Site are  $33^{\circ} 40' 05.00''$  north latitude, and  $114^{\circ} 13' 08.67''$  west longitude, in the SE 1/4 of Section 21, and the NE 1/4 of Section 28, Township 4 North, Range 19 West, as shown on the Quartzsite, Arizona U.S. Geological Survey 7.5 minute Topographic Map.

The Site boundaries have been defined by the areal extent of the former PCE groundwater plume, which was bounded by Sunset Street to the north, Oregon Avenue to the west, Main Street (Business I-10) to the south and Central Boulevard (SR-95) to the east with the known groundwater contamination existing northwest of the intersection of State Highway 95 and Business Route I-10 (Figure 3-1). The Site is located in a mixed rural, commercial, and residential area.

Groundwater flow at the Site generally flowed in a northerly direction with a gradient that has varied over the time monitoring has been conducted. The extent of contamination was defined as that area where concentrations of PCE in the groundwater were greater than 5 µg/L. The source area for remediation was considered to be centered near three of the Welcome RV Park wells. In 1995, VOC concentrations exceeding ADEQ soil remediation levels (SRLs) were not reported in any soil samples, collected during the RI, from the Welcome RV Park, Braswell and Hi-Ali Motel/Laundromat properties (ADEQ, 2009). ADEQ concluded that PCE concentrations originated, from sludge in two septic tanks, one on the Welcome RV Park property and one septic tank on the Hi-Ali property. The concentrations of the detected PCE and TCE are all below their respective SRLs and not a threat to public health or the environment.

As of March 2013, concentrations of TCE in the groundwater monitoring wells have been below the AWQS or non-detect. PCE has remained below 10 µg/L since August 2016 and below 5 µg/L since February 2017. Currently, the highest PCE concentration is 2.1 µg/L. The remedy selected in the ROD was pump and treat technology. In June 2014, to expedite cleanup and closure, the pump and treat remedy was augmented by the alternative remedy of ISCO. ISCO has achieved its objectives of controlling plume migration, removing residual PCE and TCE mass and has decreased the size of the plume. This alternative remedy has achieved the goal of accelerating cleanup as concentrations of PCE and TCE are below AWQSs in groundwater.

## **2.3 Chronology of Site Activities**

To assist with evaluating the investigation activities at the Tyson Wash WQARF Site, a chronology of major investigative activities at the Site has been compiled. The following table outlines many of the events and investigative milestones of the project:

Date	Noted Events
1995	In August, ADEQ collected a groundwater sample from a private drinking water well at the Welcome RV Park. Indicated a PCE concentration of 200 µg/l and TCE concentration of 6.2 µg/l.
1996	In April, ADEQ installed three groundwater wells in the vicinity of the Welcome RV Park. ADEQ and La Paz County held a public meeting to inform the community on drinking water and groundwater issues.
1996 1998	Additional site investigations were conducted between 1996 and 1998.
1998	In March, ADEQ installed two additional groundwater wells at the Site. The Site was placed on the WQARF Registry in December 1998 with an eligibility and evaluation score of 46 out of a possible 120.
1999	In September, ADEQ began the RI.
2000	ADEQ began providing bottled water to the residents in December to prevent further exposure to the contaminants. In-line water filters were provided to two residents whom were located on the outer edge of the plume.
2002	In March, ADEQ discontinued providing bottled water to the residents because residents within the Tyson Wash WQARF area were connected to the Town water supply. The RI report was finalized in June 2003. ADEQ began an Early Response Action (ERA) at the Site in August. The ERA was initiated to provide source control and remediate the groundwater beneath the Site.
2003	The remediation groundwater pump and treat system was installed and startup began in March.
2007	During the May sampling event, the highest concentration of PCE and TCE in groundwater beneath the site was 130 µg/l and 4.0 µg/l, respectively.
2009	The pump and treat system continued to operate as the selected remedy. On July 29th, ADEQ issued a ROD that documented the long-term plan of action to remediate the site. Due to budget constraints, groundwater sampling was temporarily suspended until funding was available.
2010	The pump and treat system continued to operate and has reduced PCE and TCE contamination in the treatment area. During the sampling event conducted in November, the highest concentrations of PCE and TCE detected in groundwater beneath the site were 49 µg/l and 2.5 µg/l, respectively.  During the November groundwater sampling, PCE was detected in EW-5 at a concentration of 12 µg/l for the first time. Being the northernmost extraction well in the pump and treat system, a pump was installed in EW-5 in December.
2011	The pump and treat system continued to operate and reduced PCE and TCE contamination in the treatment area. At the time of the April sampling event, the highest concentrations of PCE and TCE detected in groundwater were 48 µg/l and 1.8 µg/l, respectively.
2012	Groundwater sampling still indicates movement of the plume to the north. The groundwater sample collected from QMW-14 detected PCE at a concentration of 3.0 µg/l. Currently, EW-3, EW-4 and EW-5 are pumping.

Date	Noted Events
2013	<p>The March groundwater sampling still indicates movement of the plume to the north. The groundwater sample collected from QMW-14 detected PCE at a concentration of 3.2 µg/l. EW-3, EW-4, and EW-5 are pumping.</p> <p>An ISCO pilot test occurred in April by injecting a low concentration of a catalyzed hydrogen peroxide (<math>H_2O_2</math>) reagent, at a low injection rate, to decrease concentrations of PCE in the groundwater. The baseline PCE concentration for monitor well QMW-3 was 75 µg/L. The QMW-3 PCE concentrations for the samples collected on May 1, May 10, and May 24, 2013 were 33 µg/L, 31 µg/L, and 27 µg/L, respectively. The results indicated an initial 64 percent decrease of PCE concentrations during the pilot test. The baseline TCE concentration of 3.3 µg/L was decreased to &lt;1 µg/L on May 24, 2013. The ISCO pilot test operated until May 28 and was decommissioned and removed from the Site on June 3.</p>
2014	A full scale ISCO system began operating on June 5, 2014.
2015	The results of the August 2015 groundwater sampling event indicated that PCE concentrations in the groundwater samples collected from QMW-8 and Rhoades East were below 5.0 µg/L. At QMW-8 and Rhoades East, batch treatments were applied on September 29, 2015 and November 3, 2015.
2016	On January 1, 2016, March 2, 2016 and July 11, 2016 batch EN Rx treatments were applied to those wells that exceeded the AWQS of 5 µg/L. All wells were below 10 µg/L in August.
2017	On January 9, 2017 and April 4, 2017, batch EN Rx treatments were applied to those wells that exceeded the AWQS of 5 µg/L in August 2016. All wells were below 5 µg/L February and May.

## 2.4 Potentially Responsible Party Investigation

Pursuant to A.R.S. § 49-283(A), a potentially responsible party (PRP) search was conducted. The review of the PRP Investigation Report identified the only known source of the PCE contamination as located at 106 Cowell Street, in Quartzsite. Very little information is known about the date(s) or amount(s) of a release on any property.

It is the Arizona Attorney General's Office (AGO's) opinion that the anticipated recoveries from the identified PRPs were not sufficient to make additional investigations worthwhile. Based on the evidence, it is the consensus of the AGO and ADEQ that cost recovery was not appropriate. Therefore, a best-efforts PRP search was not conducted for the Site.

## 3.0 SELECTED REMEDY

The selected remedy for the Tyson Wash WQARF site was pump and treat technology. The FS considered the effectiveness of three remedies and whether additional remedial actions were warranted. The basic criterion for treatment effectiveness is whether the goals of the ROs will be met.

To monitor the continued effectiveness of the remedy for the Site and to measure the sustained progress of achievement of the ROs, groundwater elevation measurements and groundwater quality monthly sampling began in 1997. Groundwater monitoring was reduced to quarterly from 2003 through 2007, then it was reduced to a semi-annual schedule. ISCO was selected to augment pump and treat in 2014 and was described in the Periodic Review document. Since April 2014, a quarterly sampling program has been conducted to monitor the performance of the ISCO system and achievement of the clean-up goals. The laboratory results from the February and May 2017 groundwater sampling events have verified that PCE and TCE concentrations, at all monitoring wells within the Tyson Wash WQARF Site, are below all applicable AWQSs (AMEC Foster Wheeler Environment & Infrastructure, Inc., February and May 2017).

### **3.1 Achievement of Remedial Action Criteria Pursuant to ARS §49-282.06**

Pump and treat technology was selected as the reference remedy for the Site and ISCO was utilized to augment the selected remedy. The combined remedial actions:

- Adequately assured the protection of public health and welfare and the environment;
- Provided for the control, management and cleanup of the PCE contamination, maximizing beneficial use of the groundwater; and
- Was reasonable, necessary, cost-effective and technically feasible.

Concentration trends have been reviewed for each of the monitor wells where concentrations have historically been above AWQS. Figure 3-1 displays PCE and TCE concentrations for source area monitor wells QMW-3, QMW-4, EW-3, EW-4 and downgradient monitor wells EW-5, QMW-8, QMW-14 and the Rhoades East private well. In February 2017 and May 2017, the concentrations in each of these wells dropped below AWQSs.

Table 3-2 summarizes the recent and historical groundwater analytical results for COCs for the wells in the Tyson Wash WQARF Site. The combination of pump and treat technology and ISCO has effectively achieved ROs by reducing PCE and TCE concentrations to well below their respective AWQSs or below laboratory detection limits. Therefore, because ROs have been met, the Site meets the closure criteria and qualifies to be delisted from the WQARF Registry.

### **3.2 Compliance with Arizona Administrative Code (A.A.C.)**

ADEQ complied with the A.A.C. with respect to reporting and community involvement requirements for the Site. In addition, the community has been kept advised of investigative and cleanup activities at the Tyson Wash WQARF Site through presentations by ADEQ at the Community Advisory Board (CAB) meetings and in various public notices. The activities and time periods for the community involvement requirements are listed in Table 3-3.

## **4.0 CONCLUSIONS**

The remedial strategy chosen was pump and treat technology. At the issuance of the June 29, 2009 ROD, the remedial objectives were not expected to be met until the year 2032. In 2014, according to A.A.C. R18-16-410(B)(8), ADEQ reviewed the remedy to determine the effectiveness of the remedy in achieving the remedial objectives (ADEQ, 2015). In June 2014, the pump and treat remedy was augmented by the alternative remedy, ISCO, to expedite cleanup, closure and delisting from the WQARF registry.

Concentrations of TCE in all groundwater monitoring wells have been below the AWQS or not detected above laboratory reporting limits since March 2013. Concentrations of PCE have been below the AWQS in all monitoring wells since February 2017. The combination of pump and treat technology and ISCO has effectively achieved their goal by reducing PCE and TCE concentrations to below their respective AWQSs or below laboratory detection limits. Remedial objectives have been met, as demonstrated by the results from all the private wells and monitoring wells at the Tyson Wash Site, no further remedial action is necessary, and the Site can be removed from the WQARF Registry.

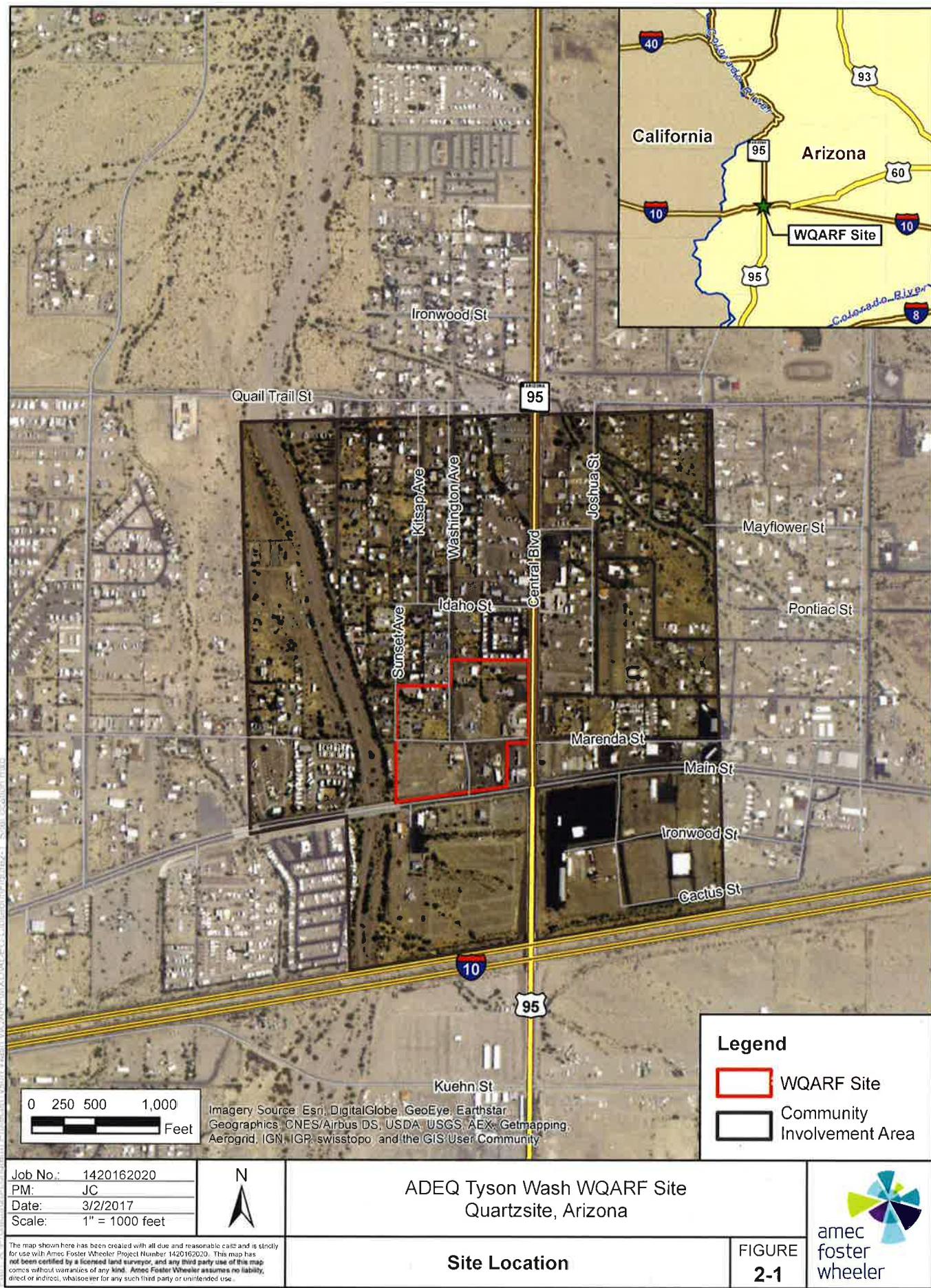
The following final activities will be conducted concurrent with Site delisting:

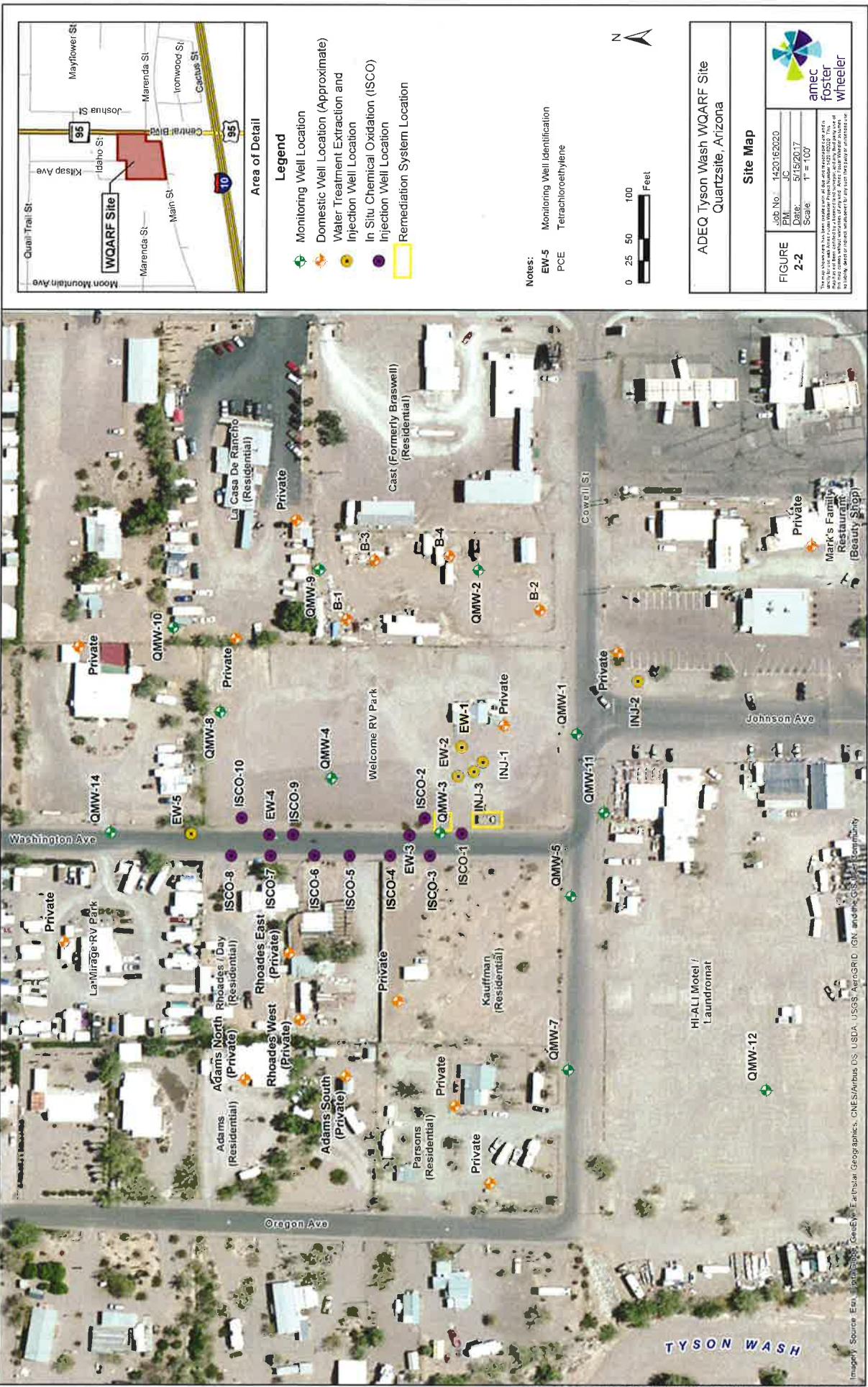
- Discontinuation of monitoring and sampling of private groundwater wells;
- Discontinuation of monitoring and sampling of ADEQ groundwater monitoring wells;
- Abandonment of ADEQ monitoring wells according to the Arizona Department of Water Resources well abandonment rule set forth in A.A.C. R12-15-816.

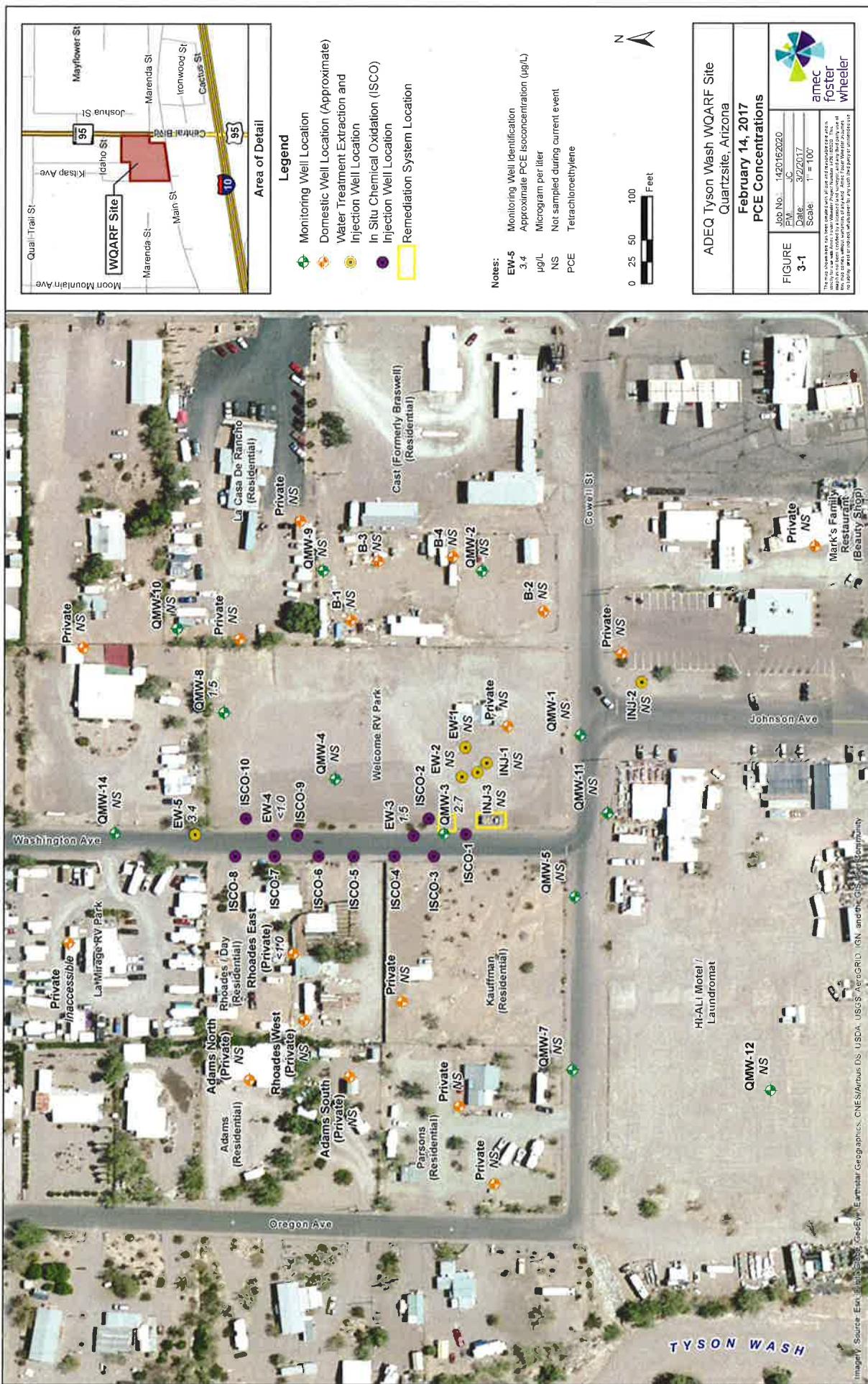
## 5.0 REFERENCES

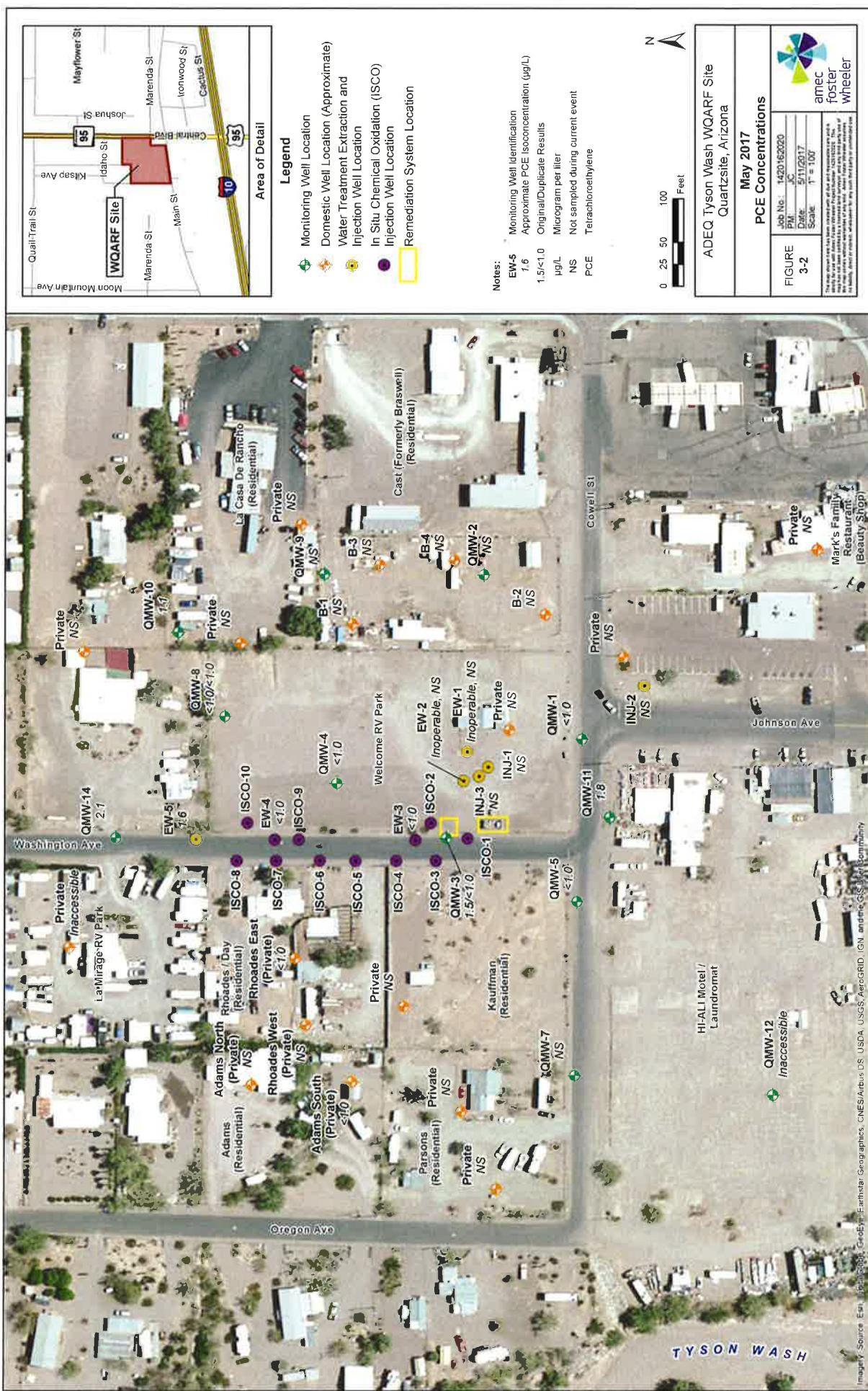
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**APPENDIX A**  
**FIGURES**









**APPENDIX B**  
**TABLES**

**Table 3-1 – Historical High and Most Recent VOC Concentrations  
Tyson Wash WQARF Site**

Detected Analyte	Well Name	Concentration		Most Recent Concentration	Comments
		Maximum (µg/L)	Date		
tetrachloroethene (PCE) Storet Code = 34475 CAS No. 127-18-4 AWQS = 5.0 µg/L	QMW-1	<b>98</b>	9/21/2005	<1.0	5/1/2017
	QMW-2	<b>9.1</b>	2/12/2003	<1.0	3/19/2013 Inaccessible since 3/19/2013
	QMW-3	<b>200</b>	12/7/2005	1.5	5/2/2017
	QMW-4	<b>97</b>	3/1/2006	<1.0	5/2/2017
	QMW-5	<b>180</b>	8/12/1998	<1.0	5/1/2017
	QMW-6	<2.0	5/11/2000	<1.0	3/27/2002 Abandoned 1/22/04
	QMW-7	<b>21</b>	12/3/2003	2.9	12/10/2008 Removed from sampling program
	QMW-8	<b>22</b>	4/8/2014	<1.0	5/1/2017
	QMW-9	<b>9.0</b>	6/9/2004	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMW-10	<b>14</b>	3/1/2006	1.1	5/1/2017
	QMW-11	<b>18</b>	12/8/2005	1.8	5/1/2017
	QMW-12	<b>28.1</b>	12/7/2004	<1.0	12/10/2008 Inaccessible since 12/10/2008
EW-1 EW-2 EW-3 EW-4 EW-5 INJ-1 INJ-2	QMW-14	<b>3.5</b>	4/8/2014	2.1	5/1/2017
	EW-1	<b>37</b>	2/26/2008	1.1	10/22/2012 Removed from sampling program
	EW-2	<b>56</b>	5/15/2003	3.0	3/19/2008 Removed from sampling program
	EW-3	<b>120</b>	3/2/2006	<1.0	5/2/2017
	EW-4	<b>72</b>	2/26/2008	<1.0	5/2/2017
	EW-5	<b>51</b>	10/20/2010	1.6	5/2/2017
	INJ-1	<b>52</b>	3/26/2003	<1.0	12/10/2008 Removed from sampling program
	INJ-2	<b>8</b>	10/3/2005	<1.0	12/10/2008 Removed from sampling program
	<b>Private Production Wells</b>				
	Cast B-1	<b>12</b>	8/10/2000	<b>8.2</b>	5/8/2001 Pump inoperable, replaced by QMW-2 and QMW-9
	Cast B-2	<b>42</b>	5/27/1999	<b>42</b>	5/27/1999 Pump inoperable, replaced by QMW-2 and QMW-9
Parsons Kauffman La Casa East La Casa West Adams North Adams South Rhoades West Rhoades East Welcome RV York	Cast B-3	<2.0	2/7/2000	<1.0	5/25/2005 Deep well pump inoperable
	Cast B-4	0.8	8/30/1995	<0.4	11/4/1999 Pump inoperable, replaced by QMW-2 and QMW-9
	Parsons	<2.0	2/18/2003	<1.0	12/8/2008 Removed from sampling program
	Kauffman	<b>27</b>	5/27/1999	<b>11</b>	5/8/2001 Well out-of-service, replaced by Rhoades East and West
	La Casa East	1.5	1/4/1999	<2.0	5/14/2003 Well out-of-service, replaced by QMW-10
	La Casa West	<b>14</b>	5/14/2003	<b>14</b>	5/14/2003 Well out-of-service, replaced by QMW-10
	Adams North	2.7	8/18/2008	2.3	12/9/2008 Sampling continued at Adams South
	Adams South	2.7	8/18/2008	<1.0	5/2/2017
	Rhoades West	<b>10</b>	8/15/2001	<b>6.9</b>	5/15/2007 Pump inoperable, replaced by Rhoades East
	Rhoades East	<b>50</b>	8/21/2007	<1.0	5/2/2017 Used as monitoring and remediation well
	Welcome RV	<b>200</b>	11/9/1995	<b>15</b>	1/27/2010 Inaccessible since 1/27/10
	York	<b>7.6</b>	5/14/2006	<1.0	1/26/2014 Inaccessible since 1/26/2014

**Table 3-1 – Historical High and Most Recent VOC Concentrations**  
**Tyson Wash WQARF Site**

Detected Analyte	Well Name	Concentration			Comments
		Maximum (µg/L)	Date	Most Recent (µg/L)	
trichloroethene (TCE) Storret Code = 34485/39180 CAS No. 79-01-6 AWQS = 5.0 µg/L	QMWW-1	<b>5.6</b>	9/21/2005	<1.0	5/1/2017
	QMWW-2	2.3	3/3/2004	<1.0	3/19/2013 Inaccessible since 3/19/2003
	QMWW-3	<b>10</b>	7/30/1997	<1.0	5/2/2017
	QMWW-4	5.0	3/1/2006	<1.0	5/2/2017
	QMWW-5	3.2	12/3/2003	<1.0	5/1/2017
	QMWW-6	<2.0	5/11/2000	<1.0	3/27/2002 Abandoned 1/22/04
	QMWW-7	1.2	6/8/2004	<1.0	12/10/2008 Removed from sampling program
	QMWW-8	2.4	12/3/2003	<1.0	5/1/2017
	QMWW-9	2.5	9/4/2003	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMWW-10	4.0	9/4/2003	<1.0	5/1/2017
	QMWW-11	1.6	11/27/2007	<1.0	5/1/2017
	QMWW-12	<1.0	9/22/2004	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMWW-14	<1.0	5/25/2011	<1.0	5/2/2017
	EW-1	2.2	3/26/2003	<1.0	10/22/2012 Removed from sampling program
EW-2	EW-2	2.2	5/15/2003	<1.0	3/19/2008 Removed from sampling program
	EW-3	4.4	12/6/2005	<1.0	5/2/2017
	EW-4	3.4	12/6/2005	<1.0	5/2/2017
	EW-5	2.1	10/20/2010	<1.0	5/2/2017
	INJ-1	3.5	11/13/2003	<1.0	12/10/2008 Removed from sampling program
	INJ-2	<1.0	10/3/2005	<1.0	12/10/2008 Removed from sampling program
	<b>Private Production Wells</b>				
Cast B-1	0.88	8/10/2000	0.7	5/8/2001	Pump inoperable, replaced by QMW-2 and QMW-9
Cast B-2	2.1	5/27/1999	2.1	5/27/1999	Pump inoperable, replaced by QMW-2 and QMW-9
Cast B-3	<2.0	2/7/2000	<1.0	5/25/2005 Deep well pump inoperable	
Cast B-4	<0.5	8/8/1995	<0.4	11/4/1999	Pump inoperable, replaced by QMW-2 and QMW-9
Parsons	<2.0	2/18/2003	<1.0	12/8/2008	Removed from sampling program
Kauffman	<1.0	8/12/1998	<1.0	5/8/2001	Well out-of-service, replaced by Rhoades East and West
La Casa East	<2.0	5/14/2003	<2.0	5/14/2003	Well out-of-service, replaced by QMW-10
La Casa West	<2.0	5/14/2003	<2.0	5/14/2003	Well out-of-service, replaced by QMW-10
Adams North	<2.0	2/13/2003	<1.0	12/9/2008	Sampling continued at Adams South
Adams South	<2.0	2/13/2003	<1.0	5/2/2017	
Rhoades West	<2.0	3/3/2004	<1.0	5/15/2007	Replaced by Rhoades East
Rhoades East	1.6	11/28/2007	<1.0	5/2/2017	Used as monitoring and remediation well
Welcome RV	<b>6.2</b>	11/19/1995	<1.0	1/27/2010	Inaccessible since 1/27/10
York	<2.0	2/13/2003	<1.0	1/26/2014	Inaccessible since 1/26/2014

**Table 3-1 – Historical High and Most Recent VOC Concentrations  
Tyson Wash WQARF Site**

Detected Analyte	Well Name	Concentration			Comments
		Maximum ( $\mu\text{g/L}$ )	Date	Most Recent ( $\mu\text{g/L}$ )	
cis-1,2-dichloroethene (c-1,2-DCE)	QMW-1	<2.0	5/11/2000	<1.0	5/1/2017
Storot Code = 81686/77093	QMW-2	<2.0	11/4/1999	<1.0	3/19/2013 Inaccessible since 3/19/2003
CAS No. 111-76-2/ 156-59-2	QMW-3	1.7	8/15/2001	<1.0	5/2/2017
AWQS = 70.0 $\mu\text{g/L}$	QMW-4	0.56	3/1/2006	<1.0	5/2/2017
	QMW-5	0.52	10/15/2013	<1.0	5/1/2017
	QMW-6	<2.0	5/11/2000	<1.0	3/27/2002 Abandoned 1/22/04
	QMW-7	<2.0	5/11/2000	<1.0	12/10/2008 Removed from sampling program
	QMW-8	<2.0	5/11/2008	<1.0	5/1/2017
	QMW-9	<2.0	2/12/2003	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMW-10	<2.0	2/12/2003	<1.0	5/1/2017
	QMW-11	<1.0	9/22/2004	<1.0	5/1/2017
	QMW-12	<1.0	9/22/2004	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMW-14	<1.0	5/25/2011	<1.0	5/2/2017
	EW-1	<2.0	3/26/2003	<1.0	10/22/2012 Removed from sampling program
	EW-2	<2.0	3/26/2003	<1.0	3/19/2008 Removed from sampling program
	EW-3	1.1	12/6/2005	<1.0	5/2/2017
	EW-4	0.61	2/26/2008	<1.0	5/2/2017
	EW-5	<1.0	10/3/2005	<1.0	5/2/2017
	INJ-1	<2.0	3/26/2003	<1.0	12/10/2008 Removed from sampling program
	INJ-2	<1.0	10/3/2005	<1.0	12/10/2008 Removed from sampling program
<b>Private Production Wells</b>					
	Cast B-1	<0.5	5/12/2000	<0.5	5/8/2001 Pump inoperable, replaced by QMW-2 and QMW-9
	Cast B-2	NA	5/27/1999	NA	5/27/1999 Pump inoperable, replaced by QMW-2 and QMW-9
	Cast B-3	<2.0	2/7/2000	<1.0	5/25/2005 Deep well pump inoperable
	Cast B-4	<0.4	11/4/1999	<0.4	11/4/1999 Pump inoperable, replaced by QMW-2 and QMW-9
	Parsons	<2.0	2/18/2003	<1.0	12/8/2008 Removed from sampling program
	Kauffman	<0.50	5/8/2001	<0.50	5/8/2001 Well out-of-service, replaced by Rhoades East and West
	La Casa East	<2.0	5/14/2003	<2.0	5/14/2003 Well out-of-service, replaced by QMW-10
	La Casa West	<2.0	5/14/2003	<2.0	5/14/2003 Well out-of-service, replaced by QMW-10
	Adams North	<2.0	2/13/2003	<1.0	12/9/2008 Sampling continued at Adams South
	Adams South	<2.0	2/13/2003	<1.0	5/2/2017 Replaced by Rhoades East
	Rhoades West	<2.0	2/18/2003	<1.0	5/15/2007 Used as monitoring and remediation well
	Rhoades East	<1.0	11/28/2007	<1.0	1/27/2010 Inaccessible since 1/27/10
	Welcome RV	<2.0	12/2/2003	<1.0	1/26/2014 Inaccessible since 1/26/2014
	York	<2.0	2/13/2003	<1.0	

**Table 3-1 – Historical High and Most Recent VOC Concentrations**  
**Tyson Wash WQARF Site**

Detected Analyte	Well Name	Concentration			Comments
		Maximum ( $\mu\text{g/L}$ )	Date	Most Recent ( $\mu\text{g/L}$ )	
trihalomethanes (THM) chloroform bromoform bromodichloromethane dibromochloromethane AWQS = 100 $\mu\text{g/L}$	QMWW-1	3.66	10/15/2013	2.5	5/1/2017
	QMWW-2	<2.0	12/2/2003	<1.0	3/19/2013 Inaccessible since 3/19/2003
	QMWW-3	4.1	3/1/2006	<1.0	5/2/2017
	QMWW-4	2.8	3/1/2006	1.8	5/2/2017
	QMWW-5	4.3	8/14/2001	<1.0	5/1/2017
	QMWW-6	<1.0	5/11/2000	<1.0	3/27/2002 Abandoned 1/22/04
	QMWW-7	2.2	8/14/2001	<1.0	12/10/2008 Removed from sampling program
	QMWW-8	5.6	8/20/2014	<1.0	5/1/2017
	QMWW-9	<2.0	2/12/2003	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMWW-10	<2.0	2/12/2003	<1.0	5/1/2017
	QMWW-11	2.4	5/26/2005	<1.0	5/1/2017
	QMWW-12	1.4	5/13/2008	<1.0	12/10/2008 Inaccessible since 12/10/2008
	QMWW-14	<1.0	5/25/2011	<1.0	5/2/2017
EW-1 EW-2 EW-3 EW-4 EW-5 INJ-1 INJ-2	EW-1	5.3	2/26/2008	<1.0	10/22/2012 Removed from sampling program
	EW-2	1.8	9/23/2004	<1.0	3/19/2008 Removed from sampling program
	EW-3	6.4	4/7/2014	<1.0	5/2/2017
	EW-4	2	10/22/2012	<1.0	5/2/2017
	EW-5	3.4	11/15/2016	<1.0	5/2/2017
	INJ-1	1.9	3/2/2006	<1.0	12/10/2008 Removed from sampling program
	INJ-2	3.0	2/26/2008	<1.0	12/10/2008 Removed from sampling program
<b>Private Production Wells</b>					
Cast B-1	<0.50	12/3/2001	<0.50	5/8/2001	Pump inoperable, replaced by QMW-2 and QMW-9
Cast B-2	NA	5/27/1999	NA	5/27/1999	Pump inoperable, replaced by QMW-2 and QMW-9
Cast B-3	<2.0	2/7/2000	<1.0	5/25/2005	Deep well pump inoperable
Cast B-4	NA	11/4/1999	NA	11/4/1999	Pump inoperable, replaced by QMW-2 and QMW-9
Parsons	25.9	12/7/2004	<1.0	12/8/2008	Removed from sampling program
Kauffman	<0.5	5/8/2001	<0.5	5/8/2001	Well out-of-service, replaced by Rhoades East and West
La Casa East	0.7	1/4/1999	<2.0	5/14/2003	Well out-of-service, replaced by QMW-10
La Casa West	7.1	12/2/2003	<2.0	5/14/2003	Well out-of-service, replaced by QMW-10
Adams North	<2.0	2/13/2003	<1.0	12/9/2008	Sampling continued at Adams South
Adams South	6.4	5/2/2017	6.4	5/2/2017	Replaced by Rhoades East
Rhoades West	<2.0	3/3/2004	<1.0	5/15/2007	Used as monitoring and remediation well
Rhoades East	31.8	5/2/2017	31.8	5/2/2017	Inaccessible since 1/27/10
Welcome RV	6.2	11/9/1995	<1.0	1/27/2010	Inaccessible since 1/26/2014
York	23.89	11/21/2001	<1.0	1/26/2014	Inaccessible since 1/26/2014



**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu$ g/l)						
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM			
				5	5	70	100			
<b>ADEQ AWQS</b>										
<b>Monitoring Well Samples</b>										
QMW-1 (55-561847)	07/30/97	68	--	97	4	--	--			
	10/29/97	68	--	81	3.1	--	--			
	05/13/98	68	--	73	2.6	--	--			
	08/12/98	68	--	76	<2.5	--	--			
	11/16/98	68	--	56	1.8	--	--			
	02/22/99	68	--	34	1.3	--	--			
	05/27/99	68	--	51	2.3	--	--			
	05/11/00	68	6.6	49/66	<2/<2	<2/<2	--			
	08/09/00	68	6.6	62	2.8	<2	--			
	10/30/00	68	--	41	2.7	<1	--			
	02/12/01	68	6.2	50	2.5	<1	--			
	05/08/01	68	6.2	54	2.7	<1	2.0			
	08/14/01	68	--	NA	NA	NA	NA			
	11/20/01	68	6.5	34	2.7	<1	2.2			
	03/27/02	68	4.5	51	2.5	<1	1.1			
	02/18/03	68	0.052	38	2.4	<2	2.2			
	05/15/03	60	0.031	22	2.3	<2	2.3			
	09/04/03	60	0.078	28	4.3	<2	2.4			
	12/03/03	60	0.039	38	5.0	<2	<2			
	03/04/04	60	0.045	44	3.6	<2	<2			
	06/08/04	60	0.044	38	4.9	<1	2.6			
	09/23/04	60	0.046	34	3.1	<1	2.4			
	12/07/04	60	0.045	69.6	4.4	<1	2.1			
	02/17/05	60	0.050	83	4.1	<1	2.4			
	05/25/05	60	0.050	80	4.6	<1	2.9			
	09/21/05	60	0.040	98	5.6	<1	2.9			
	12/07/05	60	0.044	63	3.0	<1	2.0			
	03/01/06	60	0.045	39	1.8	<1	1.8			
	05/27/06	60	0.046	30	1.5	<1	1.7			
	09/13/06	60	0.046	22	1.1	<1	1.5			
	11/29/06	60	0.046	19	1.1	<1	1.6			
	02/28/07	60	0.046	14	<1	<1	1.4			
	05/17/07	60	0.046	16	<1	<1	1.3			
	08/23/07	60	0.046	8.8	<0.5	<0.5	0.94			
	11/27/07	60	0.046	7.4	1.2	<1	<1			
	02/26/08	60	0.046	5.9	<1	<1	<1			
	05/13/08	60	0.046	4.9	<1	<1	<1			
	08/19/08	60	0.046	7.5	<1	<1	<1			
	12/10/08	60	0.046	5.2	<1	<1	<1			
	01/27/10	68	0.046	4.1	<1	<1	<1			
	04/26/10	68	0.046	4.8	<1	<1	<1			
	10/19/10	68	0.046	3.3	<1	<1	<1			

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
ADEQ AWQS				5	5	70	100
QMW-1 (55-561847)	04/05/11	60	0.046	3.4	<1	<1	<1
	10/18/11	60	0.046	2.5	<1	<1	<1
	04/17/12	60	0.046	1.6	<1	<1	<1
	10/23/12	60	0.046	1.2	<1	<1	<1
	03/20/13	60	0.046	1.1	<1	<1	<1
	10/15/13	60	0.046	0.86	<0.50	<0.50	3.66
	04/08/14	60	0.046	<1	<1	<1	2.1
	08/20/14	60	0.046	<1	<1	<1	1.8
	11/25/14	60	0.046	<1	<1	<1	1.7
	02/24/15	60	0.046	<1	<1	<1	2.1
	05/18/15	60	0.046	1.0	<1	<1	1.9
	08/11/15	60	0.046	<1	<1	<1	<1
	12/16/15	--	--	NS	NS	NS	NS
	02/09/16	--	--	NS	NS	NS	NS
	05/10/16	--	--	NS	NS	NS	NS
	08/30/16	60	0.046	<1	<1	<1	1.3
	11/14/16	60	0.046	<1	<1	<1	1.5
	02/14/17	--	--	NS	NS	NS	NS
	05/01/17	60	0.046	<1	<1	<1	2.5
QMW-2 (55-561849)	07/30/97	68	--	<2	<2	--	--
	10/29/97	68	--	<0.5	<0.5	--	--
	11/16/97	68	--	<0.5	<0.5	--	--
	05/13/98	68	--	<0.5	<0.5	--	--
	08/12/98	68	--	<0.5	<0.5	--	--
	11/16/98	68	--	<0.5	<0.5	--	--
	02/22/99	68	--	<0.5	<0.5	--	--
	05/27/99	68	--	<2	<2	--	--
	11/04/99	68	--	<2	<2	<2	--
	05/11/00	68	6.4	<2	<2	<2	--
	08/09/00	68	6.5	<2	<2	<2	--
	10/30/00	68	--	<1	<1	<1	--
	02/12/01	68	5.1	<1	<1	<1	--
	05/08/01	68	6.3	<1	<1	<1	<1
	08/14/01	68	6.3	<1	<1	<1	<1
	11/20/01	68	6.0	<1	<1	<1	<1
	03/27/02	68	3.5	<1	<1	<1	<1
	02/12/03	68	0.036	<b>9.1</b>	<2	<2	<2
	05/14/03	60	0.031	3.5	<2	<2	<2
	09/04/03	60	0.065	<2	<2	<2	<2
	12/04/03	60	0.039	<b>6.0</b>	<2	<2	<2
	03/03/04	60	0.042	2.2	2.3	<2	<2
	06/09/04	60	0.053	<b>8.0</b>	1.0	<1	<1
	09/22/04	60	0.044	<1	<1	<1	<1
	12/08/04	60	0.044	<b>8.2</b>	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
QMW-2 (55-561849)	02/17/05	60	0.05	1.5	<1	<1	<1
	05/25/05	60	0.05	2.2	<1	<1	<1
	10/03/05	60	0.05	<1	<1	<1	<1
	12/08/05	60	0.05	1.2	<1	<1	<1
	03/01/06	60	0.052	<1	<1	<1	<1
	05/23/06	60	0.046	<1	<1	<1	<1
	09/14/06	Well was inaccessible and was not sampled					
	11/28/06	60	0.046	<1	<1	<1	<1
	02/27/07	60	0.046	<1	<1	<1	<1
	05/17/07	60	0.046	<1	<1	<1	<1
	08/23/07	60	0.046	<0.5	<0.5	<0.5	<0.5
	11/27/07	60	0.046	<1	1.1	<1	<1
	02/25/08	60	0.046	<1	<1	<1	1.2
	05/14/08	60	0.046	<1	<1	<1	<1
	08/19/08	60	0.046	<1	<1	<1	<1
	12/10/08	60	0.046	<1	<1	<1	<1
	01/27/10	--	--	NS	NS	NS	NS
	04/26/10	--	--	NS	NS	NS	NS
	10/19/10	60.0	0.046	<1	<1	<1	<1
	04/05/11	60.0	0.046	<1	<1	<1	<1
	10/18/11	60.0	0.046	<1	<1	<1	<1
	04/17/12	60.0	0.046	<1	<1	<1	<1
	10/23/12	60.0	0.046	<1	<1	<1	<1
	03/19/13	60.0	0.046	<1	<1	<1	<1
Not sampled - well inaccessible since March 2013							
QMW-3	07/30/97	68	--	160/150	10/9.9	--	--
	10/29/97	68	--	160/150	9.1/8.2	--	--
	12/08/97	68	--	67	<5	--	--
	05/13/98	68	--	110/110	4.8/4.9	--	--
	08/12/98	68	--	120	<2.5	--	--
	11/16/98	68	--	67	<0.5	--	--
	02/22/99	68	--	66	3	--	--
	05/27/99	68	--	73/73	3.7/3.4	--	--
	05/11/00	68	7.2	130	4.1	<2	--
	09/08/00	68	6.8	80	4.3	1.4	--
	09/08/00	68	6.8	81	4.7	1.6	--
	10/30/00	68	--	96/98	4.7/5.1	1.5/1.5	--
	02/12/01	68	5.8	130	4.5	1.2	--
	05/08/01	68	6.0	130	4.7	1.3	2.6
	08/15/01	68	7.1	110	5.7	1.7	3.2
	11/20/01	68	7.1	160	5.2	1.5	3.1
	03/27/02	68	4.5	140	5.2	1.6	3.4
	02/18/03	68	0.047	69/75	4.5/4.6	<2/<2	3.4/3.2
	05/15/03	60	--	40	3.3	<2	2.4

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
ADEQ AWQS				5	5	70	100
QMW-3 (55-561848)	09/04/03	60	0.1	46	3.7	<2	<2
	12/03/03	60	0.039	70	5.3	<2	<2
	03/04/04	60	0.049	83/92	5.1/5.4	<2/<2	<2/<2
	06/08/04	60	0.044	60/68	4.0/5.5	1.1/1.4	3.2/3.7
	09/23/04	60	0.053	52/53	3.8/4.0	<1/<1	3.0/3.1
	12/07/04	60	0.044	84.2/95.4	4.5/4.6	1.0/<1	2.9/1.9
	02/17/05	60	0.046	100/100	4.4/4.3	1.1/1.1	2.8/3.0
	05/25/05	60	0.046	61/130	4.5/4.8	<1/<1	2.4/3.4
	09/21/05	60	0.045	160/150	6.0/5.6	1.1/1.1	4.0/4.0
	12/07/05	60	0.049	200/200	6.2/6.5	1.3/1.3	3.9/4.1
	03/01/06	60	0.044	190/200	6.2/6.5	1.2/1.2	4.1/4.1
	05/23/06	60	0.046	140/140	5.2/5.1	<1/<1	3.2/3.2
	09/13/06	60	0.046	140/140	4.7/5.0	<1/<1	3.0/3.3
	11/29/06	60	0.046	130/140	4.4/4.1	<1/<1	3.3/3.4
	02/28/07	60	0.046	130/140	4.0/4.0	<1/<1	2.9/2.8
	05/17/07	60	0.046	93/91	3.2/3.2	<1/<1	2.3/2.6
	08/23/07	60	0.046	91/95	3.8/4.0	<0.5/<0.5	2.7/2.6
	11/28/07	60	0.046	43/43	2.9/2.9	<1/<1	2.7/2.6
	02/26/08	60	0.046	46/46	2.7/2.8	<1/<1	3.1/2.7
	05/14/08	60	0.046	56/56	2.7/2.6	<1/<1	2.4/2.4
	08/19/08	60	0.046	63/60	3.2/3.3	<1/<1	2.3/2.5
	12/10/08	60	0.046	44/42	2.8/2.7	<1/<1	2.3/2.2
	01/27/10	60	0.046	63	2.7	<1	2.5
	04/27/10	60	0.046	71	3.7	<1	2.3
	10/20/10	60	0.046	49	2.5	<1	1.6
	04/05/11	60	0.046	25	1.1	<1	<1
	10/18/11	60	0.046	47/47	2.0/2.1	<1/<1	1.6/1.3
	04/17/12	60	0.046	63/67	2.8/3.0	<1/<1	2.0/2.0
	10/23/12	60	0.046	90/98	5.1/5.2	<1/<1	2.7/2.8
PDB	02/27/13	40	NA	2.8	<0.5	<0.5	0.53
	02/27/13	50	NA	11	0.67	<0.5	0.79
	03/20/13	60	0.046	75/69	3.3/3.2	<1/<1	2.1/2.2
	04/26/13	60	0.046	4.0	<1	<1	<1
	05/01/13	60	0.046	33	1.6	<1	1.3
	05/10/13	60	0.046	31	1.4	<1	1.1
	05/24/13	60	0.046	27	<1	<1	<1
	08/21/13	60	0.046	25	1.2	<1	<1
	10/15/13	60	0.046	59/59	2.5/2.6	<0.50/<0.50	1.8/1.5
	04/08/14	60	0.046	80/81	4.0/4.2	<1/<1	2.3/2.5
	08/20/14	60	0.046	55/55	2.8/2.7	<1/<1	1.8/1.9
	11/25/14	60	0.046	66/64	3.1/3.4	<1/<1	<1/<1
	02/25/15	60	0.046	16/18	<1/<1	<1/<1	1.3/1.2
	05/18/15	60	0.046	4.0/3.5	<1/<1	<1/<1	<1/<1
	08/12/15	60	0.046	9.5/10	<1/<1	<1/<1	<1/<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations (µg/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
QMW-3 (55-561848)	12/17/15	60	0.046	<b>14/15</b>	<1/<1	<1/<1	<1/<1
	02/09/16	60	0.046	<b>16/17</b>	<1/<1	<1/<1	<1/1.0
	05/11/16	60	0.046	<b>29/29</b>	1.5/1.5	<1/<1	1.6/1.6
	08/30/16	60	0.046	<b>6.2/6.1</b>	<1/<1	<1/<1	<1/<1
	11/15/16	60	0.046	<b>8.1/7.9</b>	<1/<1	<1/<1	<1/<1
	02/14/17	60	0.046	2.7	<1	<1	<1
	05/02/17	60	0.046	1.5/1.5	<1/<1	<1/<1	<1/<1
QMW-4 (55-567650)	03/26/98	62	--	<b>29</b>	<1	--	--
	05/13/98	62	--	<b>33</b>	1	--	--
	08/12/98	62	--	<b>32</b>	0.59	--	--
	11/16/98	62	--	<b>39</b>	0.97	--	--
	02/22/99	62	--	<b>45/38</b>	1.4/1.2	--	--
	05/27/99	62	--	<b>57</b>	<2	--	--
	05/11/00	62	6.4	<b>57</b>	<2	<2	--
	09/08/00	62	--	<b>33</b>	1.6	<1	--
	10/30/00	62	--	<b>40</b>	1.7	<1	--
	02/12/01	62	5.5	<b>38</b>	1.2	<1	--
	05/08/01	62	6.0	<b>43/42</b>	1.4/1.3	<1/<1	<1/<1
	08/14/01	62	5.8	<b>44</b>	1.6	<1	1.1
	11/20/01	62	7.0	<b>36</b>	1.4	<1	<1
	03/27/02	62	3.0	<b>52</b>	3.1	<1	1.4
	02/12/03	62	0.052	<b>36</b>	2.9	<2	<2
	05/15/03	60	0.031	<b>14</b>	<2	<2	<2
	09/04/03	60	0.065	<b>26/25</b>	3.1/3.1	<2/<2	<2/<2
	12/03/03	60	0.039	<b>26</b>	5.0	<2	<2
	03/03/04	60	0.038	<b>31</b>	3.6	<2	<2
	06/08/04	60	0.044	<b>19</b>	4.1	<1	2.2
	09/23/04	60	0.053	<b>18</b>	2.6	<1	2.0
	12/08/04	60	0.045	<b>55.9</b>	3.7	<1	2.1
	02/18/05	60	0.046	<b>49</b>	2.9	<1	1.5
	05/25/05	60	0.043	<b>18</b>	2.0	<1	1.6
	09/21/05	60	0.044	<b>80</b>	4.5	<1	2.5
	12/07/05	60	0.045	<b>96</b>	4.9	<1	2.5
	03/01/06	60	0.049	<b>97</b>	5.0	<1	2.8
	05/23/06	60	0.046	<b>76</b>	4.0	<1	2.1
	09/12/06	60	0.046	<b>62</b>	3.2	<1	2.1
	11/29/06	60	0.046	<b>76</b>	3.7	<1	2.5
	02/28/07	60	0.046	<b>89</b>	3.9	<1	2.3
	05/17/07	60	0.046	<b>79</b>	3.4	<1	2.1
	08/23/07	60	0.046	<b>62</b>	3.0	0.56	2.2
	11/27/07	60	0.046	<b>49</b>	3.4	<1	2.5
	02/26/08	60	0.046	<b>46</b>	3.1	<1	2.5
	05/14/08	60	0.046	<b>79</b>	3.3	<1	2.5
	08/19/08	60	0.046	<b>54</b>	3.0	<1	2.0

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
QMW-4 (55-67650)	12/10/08	60	0.046	43	2.6	<1	1.9
	01/27/10	60	0.046	38	1.7	<1	1.6
	04/26/10	60	0.046	46	2.0	<1	1.6
	10/19/10	60	0.046	24	1.2	<1	1.0
	04/05/11	60	0.046	25	1.0	<1	<1
	10/18/11	60	0.046	25	1.1	<1	1.0
	04/17/12	60	0.046	13	1.1	<1	<1
	10/23/12	60	0.046	11	<1	<1	<1
PDB	02/27/13	40	NA	1.1	<0.5	<0.5	<0.5
PDB	02/27/13	50	NA	2.7	<0.5	<0.5	<0.5
	03/20/13	60	0.046	6.0	<1	<1	<1
	04/26/13	60	0.046	4.6	<1	<1	<1
	05/01/13	60	0.046	4.6	<1	<1	<1
	05/10/13	60	0.046	5.8	<1	<1	<1
	05/24/13	60	0.046	5.5	<1	<1	<1
	08/21/13	60	0.046	3.3	<1	<1	<1
	10/15/13	60	0.046	7.8	<0.50	<0.50	0.73
	04/08/14	60	0.046	4.5	<1	<1	<1
	08/20/14	60	0.046	3.2	<1	<1	1.0
	11/25/14	60	0.046	3.1	<1	<1	<1
	02/24/15	60	0.046	2.5	<1	<1	1.0
	05/18/15	60	0.046	3.1	<1	<1	1.1
	08/11/15	60	0.046	2.0	<1	<1	<1
	12/16/15	60	0.046	1.1	<1	<1	1.6
	02/09/16	60	0.046	1.2	<1	<1	1.4
	05/10/16	60	0.046	1.1	<1	<1	1.6
	08/30/16	60	0.046	1.0	<1	<1	1.4
	11/15/16	60	0.046	1.3	<1	<1	2.0
	02/14/17	--	--	NS	NS	NS	NS
	05/02/17	60	0.046	<1	<1	<1	1.8
QMW-5 (55-567649)	04/03/98	55	--	130	<5	--	--
	05/13/98	55	--	130	<5	--	--
	08/12/98	55	--	160/180	<5/<2.5	--	--
	11/16/98	55	--	86/69	<10/<10	--	--
	02/22/99	55	--	37	1.1	--	--
	05/27/99	55	--	38	<2	--	--
	05/11/00	55	6.6	60	<2	<2	--
	09/08/00	55	--	34	1.3	<1	--
	10/30/00	55	--	34	1.4	<1	--
	02/12/01	55	4.9	40	1.1	<1	--
	05/08/01	55	6.1	46	1.1	<1	3.1
	08/14/01	55	7.0	46	1.3	<1	4.3
	11/20/01	55	6.0	38/37	1.2/1.2	<1/<1	3.8/3.6
	03/27/02	55	3.0	30/31	1.1/1.1	<1/<1	3.5/3.5

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
QMW-5 (55-67649)	02/18/03	55	0.057	8.7	<2	<2	<2
	05/14/03	55	0.031	3.1	<2	<2	<2
	09/04/03	55	--	6.6	2.7	<2	<2
	12/03/03	55	0.039	31	3.2	<2	<2
	03/04/04	55	0.039	11	<2	<2	<2
	06/08/04	55	0.050	12	2.6	<1	<1
	09/23/04	50	0.046	4.7	1.5	<1	<1
	12/07/04	50	0.045	10.5	1.8	<1	1.2
	02/17/05	50	0.044	13	1.7	<1	1.2
	05/25/05	50	0.050	6.0	<1	<1	2.0
	09/21/05	50	0.049	20.0	1.9	<1	<1
	12/08/05	50	0.050	17	2.0	<1	1.3
	03/01/06	50	0.045	16	1.6	<1	1.6
	05/23/06	50	0.046	12	1.5	<1	1.2
	09/13/06	50	0.046	8.0	1.3	<1	<1
	11/29/06	50	0.046	7.5	1.3	<1	<1
	02/28/07	50	0.046	7.2	1.1	<1	<1
	05/17/07	50	0.046	6.1	1.2	<1	<1
	08/22/07	50	0.046	5.9	0.99	<0.5	1.0
	11/27/07	50	0.046	3.2	1.5	<1	<1
	02/25/08	50	0.046	3.5	1.2	<1	1.7
	05/13/08	50	0.046	1.9	1.4	<1	<1
	08/19/08	50	0.046	2.2	1.2	<1	<1
	12/10/08	50	0.046	3.2	<1	<1	1.1
	01/27/10	50	0.046	3.1	<1	<1	1.0
	04/26/10	50	0.046	4.6	<1	<1	1.2
	10/19/10	50	0.046	2.5	<1	<1	<1
	04/05/11	50	0.046	2.6	<1	<1	<1
	10/18/11	50	0.046	2.7	<1	<1	<1
	04/17/12	50	0.046	1.5	<1	<1	<1
	10/23/12	50	0.046	1.0	<1	<1	<1
	03/19/13	50	0.046	<1.0	<1	<1	<1
	10/15/13	50	0.046	0.75	0.90	0.52	<0.50
	04/08/14	50	0.046	<1.0	<1	<1	<1
	08/20/14	50	0.046	<1	<1	<1	<1
	11/25/14	50	0.046	<1	<1	<1	<1
	02/24/15	50	0.046	<1	<1	<1	<1
	05/18/15	50	0.046	<1	<1	<1	<1
	08/11/15	50	0.046	<1	<1	<1	<1
	12/17/15	--	--	NS	NS	NS	NS
	02/09/16	--	--	NS	NS	NS	NS
	05/10/16	--	--	NS	NS	NS	NS
	08/30/16	50	0.046	<1	<1	<1	<1
	11/14/16	50	0.046	<1	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
QMW-5 (55-567649)	02/14/17	--	--	NS	NS	NS	NS
	05/01/17	50	0.046	<1	<1	<1	<1
QMW-6 <sup>1</sup> (55-578364)	05/11/00	68	6.4	<2	<2	<2	--
	09/08/00	68	--	<1	<1	<1	--
	10/30/00	68	--	<1	<1	<1	--
	02/12/01	68	8.5	<1	<1	<1	--
	05/08/01	68	9.5	<1	<1	<1	<1
	08/14/01	68	--	<1	<1	<1	<1
	11/20/01	68	8.2	<1	<1	<1	<1
	03/27/02	68	3.5	<1	<1	<1	<1
Inaccessible after March 2002 due to road construction activity and abandoned 1/22/04.							
QMW-7 (55-577300)	05/11/00	68	7.0	7	<2	<2	--
	08/09/00	68	9.4	11	<2	<2	--
	10/30/00	68	--	12	<1	<1	--
	02/12/01	68	8.9	9	<1	<1	--
	05/08/01	68	9.8	10	<1	<1	2.0
	08/14/01	68	7.3	11	<1	<1	2.2
	11/20/01	68	10.1	10	<1.0	<1	1.9
	03/27/02	68	5.0	11	<1	<1	1.8
	02/18/03	68	0.029	6.7	<2	<2	<2
	05/14/03	60	0.033	3.0	<2	<2	<2
	09/04/03	60	0.068	6.3	<2	<2	<2
	12/03/03	60	0.039	21/20	<2/<2	<2/<2	<2/<2
	03/04/04	60	0.050	13	<2	<2	<2
	06/08/04	60	0.046	9.7	1.2	<1	<1
	09/23/04	60	0.053	1.9	<1	<1	<1
	12/07/04	60	0.044	6.7	<1	<1	<1
	02/17/05	60	0.046	3.9	<1	<1	<1
	05/26/05	60	0.046	10.0	<1	<1	<1
	09/21/05	60	0.045	4.2	<1	<1	<1
	12/08/05	60	0.045	4.5	<1	<1	<1
	03/01/06	60	0.049	3.9	<1	<1	<1
	05/23/06	60	0.046	2.4	<1	<1	<1
	09/13/06	60	0.046	3.0	<1	<1	<1
	11/29/06	60	0.046	3.4	<1	<1	<1
	02/28/07	60	0.046	2.3	<1	<1	<1
	05/16/07	60	0.046	2.4	<1	<1	<1
	08/22/07	60	0.046	1.9	<0.5	<0.5	<0.5
	11/27/07	60	0.046	1.2	1.0	<1	<1
	02/25/08	60	0.046	<1	<1	<1	<1
	05/13/08	60	0.046	1.0	<1	<1	<1
	08/09/08	60	0.046	4.4	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations (µg/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
ADEQ AWQS				5	5	70	100
QMW-7 (55-577300)	12/10/08	60	0.046	2.9	<1	<1	<1
		Removed from sampling program based on concentration trends					
QMW-8 (55-577298)	05/11/00	68	5.0	2.0	<2	<2	--
	08/09/00	68	6.2	3.7	<2	<2	--
	10/30/00	68	--	4.3	<1	<1	--
	02/12/01	68	4.9	4.9/3.8	<1/<1	<1/<1	--
	05/08/01	68	5.8	3.9	<1	<1	<1
	08/14/01	68	4.2	5.1	<1	<1	<1
	11/20/01	68	5.8	3.2	<1	<1	<1
	03/27/02	68	4.0	4.6	<1	<1	<1
	02/12/03	68	0.031	5.8	<2	<2	<2
	05/15/03	60	0.031	3.8	<2	<2	<2
	09/04/03	60	0.068	9.7	<2	<2	<2
	12/03/03	60	0.039	14	2.4	<2	<2
	03/03/04	60	0.044	5.2	<2	<2	<2
	06/08/04	60	0.038	9.6	2.0	<1	<1
	09/23/04	60	0.044	6.9	<1	<1	<1
	12/08/04	60	0.045	18.8	<1	<1	<1
	02/18/05	60	0.046	15	<1	<1	<1
	05/25/05	60	0.043	<1	<1	<1	<2
	09/21/05	60	0.050	15	<1	<1	<2
	12/07/05	60	0.045	11	<1	<1	<2
	03/01/06	60	0.044	14	<1	<1	<2
	05/23/06	60	0.046	11	<1	<1	<2
	09/12/06	60	0.046	8.7	<1	<1	<2
	11/29/06	60	0.046	11	<1	<1	<2
	02/28/07	60	0.046	11	<1	<1	<2
	05/17/07	60	0.046	10	<1	<1	<2
	08/23/07	60	0.046	8.3	0.53	<0.5	<0.5
	11/27/07	60	0.046	6.6	1.2	<1	<2
	02/26/08	60	0.046	5.3	1.0	<1	<2
	05/13/08	60	0.046	8.0	1.0	<1	<2
	08/19/08	60	0.046	9.8	<1	<1	<2
	12/10/08	60	0.046	7.5	<1	<1	<2
	01/27/10	60	0.046	15	<1	<1	<2
	04/26/10	60	0.046	20	<1	<1	<2
	10/19/10	60	0.046	14	<1	<1	<2
	04/05/11	60	0.046	19	<1	<1	<2
	10/18/11	60	0.046	21	<1	<1	<2
	04/17/12	60	0.046	20	<1	<1	<2
	10/23/12	60	0.046	16	<1	<1	<2
PDB	02/27/13	40	NA	0.53	<0.5	<0.5	<0.5
PDB	02/27/13	50	NA	20	0.93	<0.5	<0.5
	03/19/13	60	0.046	21	<1	<1	<2

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations (µg/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
QMW-8 (55-577298)	10/15/13	60	0.046	<b>20</b>	1.2	<0.50	0.66
	04/08/14	60	0.046	<b>22</b>	1.2	<1	<2
	08/20/14	60	0.046	<b>18</b>	<1	<1	5.6
	11/25/14	60	0.046	<b>16</b>	1.1	<1	<1
	02/24/15	60	0.046	<b>14</b>	<1	<1	<1
	05/18/15	60	0.046	<b>19</b>	1.1	<1	<1
	08/11/15	60	0.046	4.3	<1	<1	<1
	12/17/15	60	0.046	1.6	<1	<1	<1
	02/09/16	60	0.046	4.4	<1	<1	<1
	05/10/16	60	0.046	3.4	<1	<1	<1
	08/30/16	60	0.046	<b>6.3/5.5</b>	<1	<1	2.8
	11/15/16	60	0.046	<b>7.7/9.1</b>	<1	<1	4.9
	02/14/17	60	0.046	1.5	<1	<1	<1
	05/01/17	60	0.046	<1/<1	<1/<1	<1/<1	<1/<1
QMW-9 (55-577299)	05/11/00	68	6.8	<2	<2		--
	09/08/00	68	--	<1	<1	<1	--
	10/30/00	68	--	<1	<1	<1	--
	02/12/01	68	5.3	<1	<1	<1	--
	05/08/01	68	6.0	<1	<1	<1	<1
	08/14/01	68	6.8	1.5	<1	<1	<1
	11/20/01	68	6.3	<1	<1	<1	<1
	03/27/02	68	3.5	<1	<1	<1	<1
	02/12/03	68	0.031	4.0	<2	<2	<2
	05/14/03	60	0.03	3.2	<2	<2	<2
	09/04/03	60	0.062	<2	2.5	<2	<2
	12/04/03	60	0.039	<b>7.4</b>	<2	<2	<2
	03/03/04	60	0.034	<2	<2	<2	<2
	06/09/04	60	0.045	<b>9.0</b>	1.4	<1	<1
	09/22/04	60	0.046	<1	<1	<1	<1
	12/08/04	60	0.045	<b>6.5</b>	<1	<1	<1
	02/17/05	60	0.045	1.3	<1	<1	<1
	05/25/05	60	0.043	4.8	<1	<1	<1
	10/03/05	60	0.049	<1	<1	<1	<1
	12/08/05	60	0.045	1.5	<1	<1	<1
	03/01/06	60	0.049	1.8	<1	<1	<1
	05/23/06	60	0.046	<1	<1	<1	<1
	09/13/06			Well was inaccessible and was not sampled			
	11/28/06	60	0.046	<1	<1	<1	<1
	02/27/07	60	0.046	<1	<1	<1	<1
	05/17/07	60	0.046	<1	<1	<1	<1
	08/22/07	60	0.046	<0.5	<0.5	<0.5	<0.5
	11/27/07	60	0.046	<1	<1	<1	<1
	02/25/08	60	0.046	<1	<1	<1	<1
	05/14/08	60	0.046	<1	<1	<1	1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu$ g/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
QMW-9 (55-577299)	08/19/08	60	0.046	<1	<1	<1	<1
	12/10/08	60	0.046	<1	<1	<1	<1
Not sampled - well inaccessible							
QMW-10 (55-583806)	03/06/01	68	5.8	<1	<1	<1	--
	05/08/01	68	5.7	<1	<1	<1	<1
	08/14/01	68	6.5	<1	<1	<1	<1
	11/20/01	68	6.3	2	<1	<1	<1
	03/27/02	68	5.0	<1	<1	<1	<1
	02/12/03	68	0.047	<2	<2	<2	<2
	05/14/03	60	0.031	3.7	<2	<2	<2
	09/04/03	60	0.039	<2	4	<2	<2
	12/04/03	60	0.039	<b>10</b>	<2	<2	<2
	03/03/04	60	0.045	2.1	<2	<2	<2
	06/09/04	60	0.050	<b>12</b>	1.5	<1	<1
	09/23/04	60	0.044	<b>10</b>	<1	<1	<1
	12/08/04	60	0.045	<b>7.7</b>	<1	<1	<1
	02/17/05	60	0.044	<b>5.1</b>	<1	<1	<1
	05/26/05	60	0.046	<b>6.6</b>	<1	<1	<1
	09/21/05	60	0.049	<b>13.0</b>	<1	<1	<1
	12/08/05	60	0.044	<b>11</b>	<1	<1	<1
	03/01/06	60	0.045	<b>14</b>	<1	<1	<1
	05/23/06	60	0.046	<b>9.2</b>	<1	<1	<1
	09/12/06	60	0.046	<b>8.4</b>	<1	<1	<1
	11/29/06	60	0.046	<b>9.2</b>	<1	<1	<1
	02/27/07	60	0.046	<b>9.9</b>	<1	<1	<1
	05/17/07	60	0.046	<b>8.8</b>	<1	<1	<1
	08/22/07	60	0.046	<b>6.8</b>	<0.5	<0.5	<0.5
	11/27/07	60	0.046	<b>4.5</b>	1.2	<1	<1
	02/26/08	60	0.046	<b>3.7</b>	<1	<1	<1
	05/13/08	60	0.046	<b>4.0</b>	<1	<1	<1
	08/19/08	60	0.046	<b>4.2</b>	<1	<1	<1
	12/10/08	60	0.046	<b>3.2</b>	<1	<1	<1
	01/27/10	--	--	NS	NS	NS	NS
	04/26/10	--	--	NS	NS	NS	NS
	10/19/10	60.0	0.046	<b>2.0</b>	<1	<1	<1
	04/06/11	60.0	0.046	<b>2.1</b>	<1	<1	<1
	10/18/11	60.0	0.046	<b>2.4</b>	<1	<1	<1
	04/17/12	60.0	0.046	<b>2.0</b>	<1	<1	<1
	10/23/12	60.0	0.046	<b>2.2</b>	<1	<1	<1
	03/19/13	60.0	0.046	<b>2.2</b>	<1	<1	<1
	10/15/13	60.0	0.046	<b>2.2</b>	<0.50	<0.50	<0.50
	04/07/14	60.0	0.046	<b>2.1</b>	<1	<1	<1
	08/20/14	60.0	0.046	<b>2.0</b>	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations (µg/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
ADEQ AWQS				5	5	70	100
QMW-10 (55-583806)	11/25/14	60.0	0.046	1.8	<1	<1	<1
	02/24/15	60.0	0.046	2.1	<1	<1	<1
	05/18/15	60.0	0.046	1.7	<1	<1	<1
	08/11/15	60.0	0.046	1.5	<1	<1	<1
	12/17/15	--	--	NS	NS	NS	NS
	02/09/16	--	--	NS	NS	NS	NS
	05/10/16	--	--	NS	NS	NS	NS
	08/30/16	60.0	0.046	<1	<1	<1	<1
	11/14/16	60.0	0.046	1.1	<1	<1	<1
	02/14/17	--	--	NS	NS	NS	NS
QMW-11 (55-204758)	05/01/17	60.0	0.046	1.1	<1	<1	<1
	09/22/04	60	0.046	2.5	<1	<1	1.8
	12/08/04	60	0.044	<b>15.4</b>	<1	<1	<1
	02/17/05	60	0.046	<b>7.4</b>	<1	<1	1.9
	05/26/05	60	0.043	<b>11.0</b>	<1	<1	2.4
	09/21/05	60	0.044	<b>12.0</b>	<1	<1	2.1
	12/08/05	60	0.045	<b>18</b>	<1	<1	1.8
	03/01/06	60	0.045	<b>12</b>	<1	<1	1.6
	05/23/06	60	0.046	<b>10</b>	<1	<1	1.6
	09/12/06	60	0.046	<b>8.4</b>	<1	<1	1.7
	11/29/06	60	0.046	<b>9.5</b>	<1	<1	1.6
	02/27/07	60	0.046	<b>9.3</b>	<1	<1	1.3
	05/17/07	60	0.046	<b>11</b>	<1	<1	1.3
	08/22/07	60	0.046	<b>10</b>	<0.5	<0.5	1.2
	11/27/07	60	0.046	<b>5.4</b>	1.6	<1	1.2
	02/26/08	60	0.046	3.6	1.4	<1	1.8
	05/13/08	60	0.046	<b>7.9</b>	1.3	<1	1.2
	08/19/08	60	0.046	<b>9.8</b>	1.2	<1	1.2
	12/10/08	60	0.046	<b>6.5</b>	1.0	<1	1.4
	01/27/10	Well inaccessible 1/27/10 through 8/30/16 - not sampled					
	11/14/16	60.0	0.046	1.3	<1	<1	<1
	02/14/17	--	--	NS	NS	NS	NS
	05/01/17	60.0	0.046	1.8	<1	<1	<1
QMW-12 (55-204757)	09/22/04	60	0.046	1.6	<1	<1	<1
	12/07/04	60	0.045	<b>28.1</b>	<1	<1	<1
	02/17/05	60	0.044	2.4	<1	<1	<1
	05/26/05	60	0.050	3.1	<1	<1	<1
	09/21/05	60	0.045	2.3	<1	<1	<1
	12/08/05	60	0.044	3.8	<1	<1	<1
	03/01/06	60	0.045	2.0	<1	<1	<1
	05/23/06	60	0.046	1.9	<1	<1	<1
	09/12/06	60	0.046	2.2	<1	<1	<1
	11/29/06	60	0.046	1.8	<1	<1	<1
	02/27/07	60	0.046	1.6	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
QMW-12 (55-04757)	05/16/07	60	0.046	1.5	<1	<1	<1
	08/22/07	60	0.046	0.95	<0.5	<0.5	<0.5
	11/27/07	60	0.046	<1	<1	<1	<1
	02/26/08	60	0.046	<1	<1	<1	1.4
	05/13/08	60	0.046	<1	<1	<1	1.4
	08/19/08	60	0.046	<1	<1	<1	<1
	12/10/08	60	0.046	<1	<1	<1	<1
Not sampled - well inaccessible since 12/10/2008							
QMW-14 (55-13248)	05/25/11	60	0.046	1.9	<1	<1	<1
	10/18/11	60	0.046	2.7	<1	<1	<1
	04/17/12	60	0.046	3.0	<1	<1	<1
	10/23/12	60	0.046	2.5	<1	<1	<1
	03/19/13	60	0.046	3.2	<1	<1	<1
	10/15/13	60	0.046	3.3	<0.50	<0.50	<0.50
	04/08/14	60	0.046	3.5	<1	<1	<1
	08/20/14	60	0.046	2.7	<1	<1	<1
	11/25/14	60	0.046	2.3	<1	<1	<1
	02/25/15	60	0.046	2.7	<1	<1	<1
	05/18/15	60	0.046	2.0	<1	<1	<1
	08/11/15	60	0.046	2.3	<1	<1	<1
	01/04/16	60	0.046	1.9	<1	<1	<1
	02/09/16	60	0.046	<1	<1	<1	<1
	05/10/16	60	0.046	1.7	<1	<1	<1
	08/30/16	60	0.046	1.4	<1	<1	<1
	11/14/16	60	0.046	1.7	<1	<1	<1
	02/14/17	--	--	NS	NS	NS	NS
	05/01/17	60.0	0.046	2.1	<1	<1	<1
<b>Domestic Well Samples</b>							
<b>Cast</b>							
B-1 (55-540500)	08/08/95	--	--	1.4	<0.5	--	--
	11/04/99	--	--	10	0.58	<0.4	--
	05/12/00	--	--	11	0.7	<0.5	--
	08/10/00	--	--	12	0.84	<0.5	--
	10/31/00	--	--	11	0.88	<0.5	--
	02/13/01	--	--	9	0.82	<0.5	<0.5
	05/08/01	--	--	8.2	0.70	<0.5	<0.5
Pump inoperable since 5/8/01. QMW-2 and QMW-9 monitor this area							
B-2 (55-531202)	08/08/95	--	--	20/19	0.8/0.8	--	--
	07/30/97	--	--	1.3	<0.5	--	--
	10/29/97	--	--	4.1	<0.5	--	--
	05/13/98	--	--	22	0.96	--	--
	08/12/98	--	--	25	<0.5	--	--
	11/16/98	--	--	22	0.54	--	--

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
B-2 (55-531202)	02/22/99	--	--	37	1.6	--	--
	05/27/99	--	--	42	2.1	--	--
Pump inoperable since 5/27/99. QMW-2 and QMW-9 monitor this area							
B-3 (deep well) (55-526878)	02/07/00	--	--	<2	<2	<2	--
	05/12/00	--	--	<0.5	<0.5	<0.5	--
	08/10/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	<0.5
	05/08/01	--	--	<0.5	<0.5	<0.5	<0.5
	08/15/01	--	--	NA	NA	NA	NA
	11/21/01	--	--	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5
	03/28/02	--	--	<0.5	<0.5	<0.5	<0.5
	02/12/03	--	--	<2	<2	<2	<2
	05/14/03	--	--	NA	NA	NA	NA
	12/03/03	--	--	<2	<2	<2	<2
	03/03/04	--	--	<2	<2	<2	<2
	06/09/04	--	--	<1	<1	<1	<1
	09/22/04	--	--	<1	<1	<1	<1
	12/08/04	--	--	<1	<1	<1	<1
	02/17/05	--	--	<1	<1	<1	<1
	05/25/05	--	--	<1	<1	<1	<1
Pump inoperable since May 2005, removed from sampling program							
B-4 (55-530652)	08/08/95	--	--	<0.5	<0.5	--	--
	08/30/95	--	--	0.8	<0.5	--	--
	11/04/99	--	--	<0.4	<0.4	<0.4	--
Pump inoperable since 11/4/99. QMW-2 and QMW-9 monitor this area							
Parsons (55-630831)	10/29/97	--	--	<0.5	<0.5	--	--
	05/27/99	--	--	<0.4	<0.4	--	--
	05/12/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	--
	05/08/01	--	--	<0.5	<0.5	<0.5	--
	08/15/01	--	--	NA	NA	<0.5	NA
	11/21/01	--	--	<0.5	<0.5	<0.5	<0.5
	03/28/02	--	--	<0.5	<0.5	<0.5	<0.5
	02/18/03	--	--	<2	<2	<2	<2
	05/14/03	--	--	<2	<2	<2	<2
	09/04/03	--	--	<2	<2	<2	<2
	12/04/03	--	--	<2	<2	<2	<2
	03/03/04	--	--	<2	<2	<2	<2
	06/09/04	--	--	<1	<1	<1	3.7
	09/22/04	--	--	<1	<1	<1	11.8
	12/07/04	--	--	<1	<1	<1	25.9

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
<b>ADEQ AWQS</b>							
Parsons (55-630831)	02/16/05	--	--	<1	<1	<1	12.0
	05/24/05	--	--	<1	<1	<1	10.3
	09/21/05	--	--	<1	<1	<1	<1
	12/07/05	--	--	<1	<1	<1	<1
	03/02/06	--	--	<1	<1	<1	<1
	05/22/06	--	--	<1	<1	<1	<1
	09/14/06	--	--	<1	<1	<1	<1
	11/28/06	--	--	<1	<1	<1	<1
	02/27/07	--	--	<1	<1	<1	<1
	05/15/07	--	--	<1	<1	<1	<1
	08/21/07	--	--	<0.5	<0.5	<0.5	<0.5
	11/27/07	--	--	<1	<1	<1	<1
	02/25/08	--	--	<1	<1	<1	6.8
	05/13/08	--	--	<1	<1	<1	4.7
	08/18/08	--	--	<1	<1	<1	1.5
	12/09/08	--	--	<1	<1	<1	<1
Removed from sampling program based on concentration trends							
Rhoades West (55-526314)	10/29/97	--	--	4.9	<0.5	--	--
	02/22/99	--	--	<b>5.1</b>	<0.5	--	--
	05/14/99	--	--	4.4	<0.4	--	--
	05/27/99	--	--	<b>5.1</b>	<0.4	--	--
	10/31/00	--	--	<b>9.4</b>	<0.5	<0.5	--
	02/13/01	--	--	<b>8.0</b>	<0.5	<0.5	--
	05/08/01	--	--	<b>8.1/7.9</b>	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5
	08/15/01	--	--	<b>10.0</b>	<0.5	<0.5	<0.5
	11/21/01	--	--	<b>8.3</b>	<0.5	<0.5	<0.5
	03/28/02	--	--	<b>5.5/5.9</b>	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5
	02/18/03	--	--	3.3	<2	<2	<2
	05/15/03	--	--	3.2	<2	<2	<2
	09/04/03	--	--	3.2/3.0	<2/<2	<2/<2	<2/<2
	12/03/03	--	--	<b>5.4/5.0</b>	<2/<2	<2/<2	<2/<2
	03/03/04	--	--	4.3/4.5	<2/<2	<2/<2	<2/<2
	06/09/04	--	--	<b>6.4/6.6</b>	<1/<1	<1/<1	<1/<1
	09/22/04	--	--	<b>5.2/5.6</b>	<1/<1	<1/<1	<1/<1
	12/07/04	--	--	<b>7.7/7.8</b>	<1/<1	<1/<1	<1/<1
	02/18/05	--	--	<b>5.5/4.8</b>	<1/<1	<1/<1	<1/<1
	05/24/05	--	--	4.3/4.3	<1/<1	<1/<1	<1/<1
	09/21/05	--	--	<b>6.5/6.1</b>	<1/<1	<1/<1	<1/<1
	12/07/05	--	--	3.4/3.1	<1/<1	<1/<1	<1/<1
	03/02/06	--	--	3.0/3.0	<1/<1	<1/<1	<1/<1
	05/22/06	--	--	3.7/3.8	<1/<1	<1/<1	<1/<1
	09/14/06	--	--	4.7/5.0	<1/<1	<1/<1	<1/<1
	11/28/06	--	--	<b>6.1/5.7</b>	<1/<1	<1/<1	<1/<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
Rhoades West (55-526314)	03/01/07	--	--	<b>6.6/5.9</b>	<1/<1	<1/<1	<1/<1
	05/15/07	--	--	<b>6.9/6.6</b>	<1/<1	<1/<1	<1/<1
8/21/07-8/18/08, pump was inoperable. Sampling moved to Rhoades East							
Rhoades East	08/21/07	50	0.046	<b>50/49</b>	0.92/1.0	<0.5/<0.5	1.6/1.6
	11/28/07	50	0.046	<b>35</b>	1.6	<1	2.0
	02/26/08	50	0.046	<b>25</b>	1.1	<1	1.8
	05/14/08	50	0.046	<b>32/30</b>	<1/<1	<1/<1	1.7/1.7
	08/19/08	50	0.046	<b>24/24</b>	1.0/1.1	<1/<1	1.2/1.2
	12/11/08	50	0.046	<b>31</b>	<1.0	<1	1.1
	01/27/10	50	0.046	<b>34</b>	<1	<1	1.8
	04/27/10	50	0.046	<b>48</b>	1.1	<1	2.2
	10/20/10	50	0.046	<b>23</b>	<1	<1	1.2
	04/05/11	50	0.046	<b>31</b>	<1	<1	1.6
	10/18/11	50	0.046	<b>22</b>	<1	<1	1.2
	04/17/12	50	0.046	<b>20</b>	<1	<1	1.6
	10/23/12	--	--	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
	03/20/13	50	0.046	<b>12</b>	<1	<1	1.2
	10/15/13	50	0.046	<b>9.6</b>	<0.50	<0.50	0.85
	04/08/14	50	0.046	<b>13</b>	<1	<1	1.3
	08/20/14	50	0.046	<b>9.0</b>	<1	<1	<1
	11/25/14	50	0.046	<b>8.7</b>	<1	<1	<1
	02/24/15	50	0.046	<b>12</b>	<1	<1	1.2
	05/18/15	50	0.046	<b>14</b>	<1	<1	1.7
	08/12/15	50	0.046	<b>4.6</b>	<1	<1	<1
	12/17/15	50	0.046	<b>2.7</b>	<1	<1	<1
	02/09/16	50	0.046	<b>6.8</b>	<1	<1	1.4
	05/11/16	50	0.046	<b>3.5</b>	<1	<1	<1
	08/30/16	50	0.046	<b>7.0</b>	<1	<1	1.6
	11/15/16	50	0.046	<b>9.4</b>	<1	<1	1.9
	02/14/17	50	0.046	<1	<1	<1	<1
	05/02/17	50	0.046	<1	<1	<1	31.8
Kauffman	08/12/98	--	--	<1	<1	--	--
	05/27/99	--	--	<b>29</b>	<1	--	--
	05/08/01	--	--	<b>11</b>	<1	<0.5	<0.5
Well out-of-service after 5/8/01. Rhoades West and East Wells monitor this area							
Welcome RV (55-41533)	11/09/95	--	--	<b>200/180</b>	<b>6.2/7.0</b>	--	--
	11/04/99	--	--	<b>74/79</b>	<4/<4	<4/<4	--
	04/03/00	--	--	<b>120</b>	<b>5.7</b>	<0.5	--
	08/10/00	--	--	NA	NA	NA	--
	11/16/00	--	--	<b>100/110</b>	4.7/4.9	<0.5/<0.5	--
	02/13/01	--	--	<b>130</b>	<b>5.0</b>	<0.5	--
	05/08/01	--	--	NA	NA	NA	NA
	08/15/01	--	--	NA	NA	NA	NA

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
Welcome RV (55-41533)	12/14/01	--	--	120	5.5	<0.5	3.3
	03/28/02	--	--	NA	NA	NA	NA
	02/12/03	-	-	160	4.5	<2	2.9
	02/12/03	--	--	160	4.6	<2	<2
	05/14/03	--	--	NA	NA	NA	NA
	11/18/03	--	--	100	3.8	<2	<2
	01/08/04	--	--	92	3.0	<2	<2
	02/10/04	--	--	91	3.0	<2	<2
	02/10/04	--	--	79	2.9	<0.5	<0.5
	03/03/04	--	--	90	2.9	<2	<2
	11/22/04	--	--	7.8	<1	<1	<1
	12/08/04	--	--	27.3	<1	<1	<1
	02/16/05	--	--	30	<1	<1	1.2
	12/07/05	-	-	12	<1	<1	<1
	03/02/06	--	--	20	1.0	<1	1.3
	11/28/06	--	--	60	2.9	<1	<1
	03/01/07	--	--	12	<1	<1	6.2
	11/27/07	--	--	40/38	2.2/2.2	<1/<1	2.3/2.3
	02/25/08	--	--	27/28	1.2/1.2	<1/<1	1.4/1.4
	12/12/08	--	--	30/31	1.4/1.6	<1/<1	1.4/1.6
	01/27/10	--	--	15	<1	<1	1.0
Not sampled - well inaccessible since April 2010							
Adams North (55-44019)	05/27/99	--	--	<0.4	<0.4	--	--
	05/12/00	--	--	<0.5	<0.5	<0.5	--
	08/10/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	--
	05/08/01	--	--	<0.5	<0.5	<0.5	<0.5
	08/15/01	--	--	NA	NA	NA	NA
	11/21/01	--	--	<0.5	<0.5	<0.5	<0.5
	03/28/02	--	--	0.64	<0.5	<0.5	<0.5
	02/13/03	-	-	<2	<2	<2	<2
	05/14/03	--	--	<2	<2	<2	<2
	09/04/03	--	--	<2	<2	<2	<2
	12/04/03	--	--	<2	<2	<2	<2
	03/03/04	--	--	<2	<2	<2	<2
	06/09/04	--	--	1.2	<1	<1	<1
	09/22/04	--	--	1.1	<1	<1	<1
	12/08/04	--	--	1.4	<1	<1	<1
	02/18/05	--	--	1.3	<1	<1	<1
	05/24/05	--	--	1.0	<1	<1	<1
	09/21/05	--	--	1.1	<1	<1	<1
	12/07/05	--	--	1.1	<1	<1	<1
	03/02/06	--	--	1.0	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
Adams North (55-44019)	05/22/06	--	--	<1.0	<1	<1	<1
	09/14/06	--	--	1.2	<1	<1	<1
	11/28/06	--	--	1.1	<1	<1	<1
	02/27/07	--	--	<1	<1	<1	<1
	05/17/07	--	--	1.3	<1	<1	<1
	08/21/07	--	--	1.8	<0.5	<0.5	<0.5
	11/27/07	--	--	2.1	<1	<1	<1
	02/25/08	--	--	2.2	<1	<1	<1
	05/14/08	--	--	2.2	<1	<1	<1
	08/18/08	--	--	2.7	<1	<1	<1
	12/09/08	--	--	2.3	<1	<1	<1
Not sampled after 12/9/08. Samples from Adams South used to monitor this area							
Adams South (55-44020)	05/12/00	--	--	<0.5	<0.5	<0.5	--
	08/10/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	--
	05/08/01	--	--	<0.5	<0.5	<0.5	<0.5
	08/15/01	--	--	NA	NA	NA	NA
	11/21/01	--	--	<0.5	<0.5	<0.5	<0.5
	03/28/02	--	--	0.61	<0.5	<0.5	<0.5
	02/13/03	--	--	<2	<2	<2	<2
	05/14/03	--	--	<2	<2	<2	<2
	09/04/03	--	--	<2	<2	<2	<2
	12/04/03	--	--	<2	<2	<2	<2
	03/03/04	--	--	<2	<2	<2	<2
	06/09/04	--	--	1.2	<1	<1	<1
	09/22/04	--	--	<1	<1	<1	<1
	12/08/04	--	--	1.2	<1	<1	<1
	02/18/05	--	--	1.4	<1	<1	<1
	05/24/05	--	--	<1	<1	<1	<1
	09/21/05	--	--	1.1	<1	<1	<1
	12/07/05	--	--	<1	<1	<1	<1
	03/02/06	--	--	<1	<1	<1	<1
	05/22/06	--	--	<1	<1	<1	<1
	09/14/06	--	--	1.3	<1	<1	<1
	11/28/06	--	--	<1	<1	<1	<1
	02/27/07	--	--	1.3	<1	<1	<1
	05/17/07	--	--	1.5	<1	<1	<1
	08/21/07	--	--	1.1	<0.5	<0.5	<0.5
	11/27/07	--	--	2.2	<1	<1	<1
	02/25/08	--	--	2.1	<1	<1	<1
	05/14/08	--	--	2.3	<1	<1	<1
	08/18/08	--	--	2.7	<1	<1	<1
	12/09/08	--	--	2.5	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
	ADEQ AWQS			5	5	70	100
Adams South (55-44020)	01/27/10	--	--	NS	NS	NS	NS
	04/27/10	--	--	NS	NS	NS	NS
	10/20/10	--	--	2.2	<1	<1	<1
	04/05/11	--	--	2.3	<1	<1	<1
	10/18/11	--	--	1.4	<1	<1	<1
	04/16/12	--	--	1.5	<1	<1	<1
	10/22/12	--	--	1.6	<1	<1	<1
	03/18/13	--	--	1.3	<1	<1	<1
	10/16/13	--	--	1.0	<0.50	<0.50	<0.50
	04/07/14	--	--	1.1	<1	<1	<1
	08/20/14	--	--	NS	NS	NS	NS
	11/26/14	--	--	1.4	<1	<1	<1
	02/25/15	--	--	1.2	<1	<1	<1
	05/18/15	--	--	1.2	<1	<1	<1
	08/12/15	--	--	<1	<1	<1	<1
	12/17/15	--	--	NS	NS	<1	<1
	02/09/16	--	--	NS	NS	<1	<1
	05/10/16	--	--	NS	NS	<1	<1
	08/30/16	--	--	1.1	<1	<1	<1
York (55-600695)	11/15/16	--	--	1.0	<1	<1	<1
	02/14/17	--	--	NS	NS	NS	NS
	05/02/17	--	--	<1	<1	<1	6.4
	04/03/98	--	--	<0.5	<0.5	--	--
	05/27/99	--	--	<0.4	<0.4	--	--
	11/04/99	--	--	<0.4	<0.4	<4	--
	05/12/00	--	--	<0.5	<0.5	<4	--
	08/10/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	<0.5
	05/08/01	--	--	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5
	08/15/01	--	--	<0.5	<0.5	<0.5	<0.5
	11/21/01	--	--	<0.5	<0.5	<0.5	23.89
	03/27/02	--	--	<0.5	<0.5	<0.5	15.4
	02/13/03	--	--	<2	<2	<2	<2
	05/14/03	--	--	NA	NA	NA	NA
	09/04/03	--	--	<2	<2	<2	<2
	12/04/03	--	--	<2	<2	<2	<2
	01/08/04	--	--	<2	<2	<2	<2
	03/03/04	--	--	<2	<2	<2	<2
	06/09/04	--	--	3.7	<1	<1	<1
	09/22/04	--	--	1.4	<1	<1	<1
	12/08/04	--	--	2.5	<1	<1	<1
	02/18/05	--	--	1.6	<1	<1	<1
	05/24/05	--	--	4.3	<1	<1	<1

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				ADEQ AWQS	5	5	70
York (55-600695)	09/21/05	--	--	4.0	<1	<1	<1
	12/07/05	--	--	4.2	<1	<1	<1
	03/02/06	--	--	3.8	<1	<1	<1
	05/22/06	--	--	7.2	<1	<1	<1
	09/14/06	--	--	3.1	<1	<1	<1
	11/28/06	--	--	4.1	<1	<1	<1
	03/01/07	--	--	3.4	<1	<1	<1
	05/15/07	--	--	5.8	<1	<1	<1
	08/21/07	--	--	6.7	<0.5	<0.5	<0.5
	11/27/07	--	--	5.8	<1	<1	<1
	02/25/08	--	--	4.3	<1	<1	<1
	05/14/08	--	--	7.6	<1	<1	<1
	08/18/08	--	--	7.4	<1	<1	<1
	12/12/08	--	--	3.2	<1	<1	<1
	04/05/11	--	--	<1	<1	<1	<1
	10/18/11	--	--	NS	NS	NS	NS
	04/16/12	--	--	<1	<1	<1	<1
	10/22/12	--	--	<1	<1	<1	<1
	03/18/13	--	--	<1	<1	<1	<1
	10/16/13	--	--	<0.50	<0.50	<0.50	<0.50
	04/07/14	--	--	<1	<1	<1	<1
	08/20/14	--	--	<1	<1	<1	<1
	11/26/14	--	--	<1	<1	<1	<1
Not sampled - well inaccessible since 11/26/2014							
<b>La Casa Del Rancho Restaurant</b>							
East	11/04/99	--	--	1.5	<0.4	<0.4	--
	05/12/00	--	--	NA	NA	<0.5	--
	08/10/00	--	--	<0.5	<0.5	<0.5	--
	10/31/00	--	--	<0.5	<0.5	<0.5	--
	02/13/01	--	--	<0.5	<0.5	<0.5	0.70
	05/08/01	--	--	<0.5	<0.5	<0.5	0.55
	08/15/01	--	--	<0.5	<0.5	<0.5	0.59
	11/21/01	--	--	<0.5	<0.5	<0.5	<0.5
	03/28/02	--	--	<0.5	<0.5	<0.5	<0.5
	02/12/03	--	--	NA	NA	NA	NA
	05/14/03	--	--	<2	<2	<2	<2
Well out of service since 5/14/03. QMW-10 is used to monitor this area							
West	11/04/99	--	--	4	<0.4	<0.4	--
	05/12/00	--	--	5.1	<0.5	<0.5	--
	08/10/00	--	--	5.9	<0.5	<0.5	--
	11/16/00	--	--	7.6	<0.5	<0.5	--
	02/13/01	--	--	9	<0.5	<0.5	<0.5
	05/08/01	--	--	8.6	<0.5	<0.5	<0.5
	08/15/01	--	--	NA	NA	<0.5	NA

**Table 3-2 – Summary of Detected VOCs  
Tyson Wash WQARF Site**

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**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations (µg/l)			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
EW-2 (55-596440)	03/26/03	55.5	0.068	<b>30</b>	2.1	<2	<2
	05/15/03	60	--	<b>56</b>	2.2	<2	<2
	06/12/03	60	--	<b>34</b>	<2	<2	<2
	07/16/03	60	3.05	<b>35</b>	<2	<2	<2
	09/04/03	60	2.96	<b>15</b>	<2	<2	<2
	10/14/03		--	<b>4.4</b>	<2	<2	<2
	11/13/03		2.7	<b>4.1</b>	<2	<2	<2
	12/04/03	60	<b>2.94</b>	<b>2.4</b>	<2	<2	<2
	02/10/04	60		<b>2.5</b>	<2	<2	<2
	03/04/04	60		<b>2.7</b>	<2	<2	<2
	06/08/04	60		<b>18</b>	<1	<1	<1
	09/23/04	60		<b>6.1</b>	<1	<1	1.8
	12/07/04	60		<b>26.6</b>	1.2	<1	1.8
	02/18/05	60		<b>13.0</b>	<1	<1	1.8
	05/25/05	60		<b>22.0</b>	<1	<1	<1
	09/21/05	60		<b>9.2</b>	<1	<1	<1
	12/06/05	60	2.00	<b>16</b>	<1	<1	1.4
	03/02/06	60	2.00	<b>23</b>	<1	<1	1.8
	05/24/06	60	2.00	<b>2.6</b>	<1	<1	1.8
	09/12/06	60	2.00	<1.0	<1	<1	<1
	11/28/06	60	2.00	<1.0	<1	<1	<1
	02/27/07	60	2.00	<1.0	<1	<1	<1
	05/15/07	60	2.00	<1.0	<1	<1	<1
	08/21/07	60	2.00	<0.5	<0.5	<0.5	0.80
	11/26/07	60	2.00	<b>3.5</b>	<1	<1	<1
	02/26/08	60	2.00	<b>2.2</b>	<1	<1	<1
	05/14/08			Sampling attempted, pump was inoperable			
	08/19/08	NA	NA	<b>3.0</b>	<1	<1	<1
Not sampled since 8/19/08							
EW-3 (55-205419)	10/03/05	60	0.05	<b>27</b>	1.2	<1	<1
	12/06/05	60	2.00	<b>120/120</b>	4.4/4.3	1.1/<1	3.0/2.8
	03/02/06	60	2.00	<b>120/120</b>	3.9/4.0	<1/<1	3.1/3.4
	05/24/06	60	2.00	<b>95/97</b>	3.3/3.4	<1/<1	3.1/3.4
	09/12/06	60	2.00	<b>89/89</b>	3.1/2.9	<1/<1	3.1/3.1
	11/28/06	60	2.00	<b>110/100</b>	3.0/3.0	<1/<1	2.6/2.3
	02/27/07	60	2.00	<b>78/90</b>	2.5/2.6	<1/<1	2.7/2.5
	05/15/07	60	2.00	<b>82/88</b>	2.6/2.7	<1/<1	2.4/2.6
	08/21/07	60	2.00	<b>62/65</b>	2.0/2.2	<0.5/<0.5	2.0/2.1
	11/26/07	60	2.00	<b>9.4/8.1</b>	<1/<1	<1/<1	<1/<1
	02/26/08	60	2.00	<b>70/71</b>	2.3/2.2	<1/<1	1.9/2.2
	05/14/08	60	2.00	<b>50</b>	1.8	<1	1.8
	08/18/08	60	3.00	<b>13/13</b>	<1/<1	<1/<1	<1/<1
	12/12/08	60	3.00	<b>39/39</b>	1.4/1.4	<1/<1	1.4/1.4
	01/27/10	60	3.00	NS	NS	NS	NS

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
EW-3 (55-205419)	04/27/10	60	3.00	26	1.1	<1	1.2
	10/20/10	60	3.00	17	<1	<1	1.0
	04/04/11	60	3.00	14	<1	<1	<1
	10/17/11	60	4.00	16	<1	<1	1.0
	04/16/12	60	3.00	12	<1	<1	<1
	10/22/12	60	2.00	10	<1	<1	<1
	03/18/13	60	2.00	18	<1	<1	1.4
	04/26/13	60	1.00	24	1.1	<1	1.1
	05/01/13	60	1.00	19	<1	<1	1.1
	05/10/13	60	1.00	22	0.95	<1	<1
	05/24/13	60	1.00	24	1.0	<1	<1
	08/21/13	60	1.00	14	1.0	<1	1.8/1.5
	10/16/13	60	1.00	20	0.61	<0.50	1.2
	04/07/14	60	3.00	13	<1	<1	6.4
	08/20/14	--	--	NS	NS	NS	NS
	12/09/14	60	0.046	<1	<1	<1	<1
	02/24/15	60	0.046	<1	<1	<1	<1
	05/18/15	60	0.046	<1	<1	<1	<1
	08/11/15			Not Sampled - Plugged			
	12/16/15	60	0.046	<1	<1	<1	<1
	02/09/16	60	0.046	<1	<1	<1	<1
	05/10/16	60	0.046	1.5	<1	<1	<1
	08/30/16	60	0.046	3.1	<1	<1	<1
	11/15/16	60	0.046	5.9	<1	<1	<1
	02/14/17	60	0.046	1.5	<1	<1	<1
	05/02/17	60	0.046	<1	<1	<1	<1
EW-4 (55-205422)	10/03/05	60	0.045	6.6	<1	<1	<1
	12/06/05	60	2.00	55	3.4	<1	1.5
	03/02/06	60	2.00	54	3.2	<1	1.6
	05/24/06	60	2.00	39	2.5	<1	1.6
	09/12/06	60	2.00	40	2.4	<1	1.4
	11/28/06	60	2.00	55	2.7	<1	1.4
	02/27/07	60	2.00	43	2.4	<1	1.5
	05/15/07	60	2.00	52	2.6	<1	1.5
	08/21/07	60	2.00	53	2.9	<0.5	1.5
	11/26/07	60	2.00	16	<1	<1	<1
	02/26/08	60	2.00	72	3.3	0.61	1.6
	05/14/08	60	2.00	56	2.9	<1	1.5
	08/18/08	60	2.50	61	3.1	<1	1.6
	12/12/08	60	2.50	65	2.9	<1	1.6
	01/27/10	60	3.00	NS	NS	NS	NS
	04/27/10	60	3.00	52	2.4	<1	1.6
	10/20/10	60	3.00	49	2.2	<1	1.6

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
ADEQ AWQS				5	5	70	100
EW-4 (55-205422)	04/04/11	60	3.00	48	1.8	<1	1.5
	10/17/11	60	3.00	58/49	1.8/1.7	<1/<1	1.6/1.5
	04/16/12	60	3.50	47/46	1.3/1.2	<1/<1	1.6/1.6
	10/22/12	60	4.00	63/60	2.0/1.2	<1/<1	2.0/1.8
	03/18/13	60	4.00	59/60	1.7/1.5	<1/<1	2.0/1.9
	10/16/13	60	5.00	60/56	1.3/1.3	<0.50/<0.50	2.0/2.4
	04/07/14	60	4.00	44/47	1.3/1.3	<1/<1	1.8/1.9
	08/20/14	60	0.046	6.3	<1	<1	<1
	12/09/14	60	0.046	<1	<1	<1	<1
	02/24/15	60	0.046	<1	<1	<1	<1
	05/18/15	60	0.046	<1	<1	<1	<1
	08/12/15	60	0.046	1.3	<1	<1	<1
	12/16/15	60	0.046	<1	<1	<1	<1
	02/09/16	60	0.046	<1	<1	<1	1.4
	05/11/16	60	0.046	<1	<1	<1	<1
	08/30/16	60	0.046	1.1	<1	<1	<1
	11/15/16	60	0.046	2.3	<1	<1	<1
	02/14/17	60	0.046	<1	<1	<1	<1
	05/02/17	60	0.046	<1	<1	<1	<1
EW-5 (55-20520)	10/03/05	60	0.045	<1	<1	<1	<1
	12/06/05	60	1.00	2.0	<1	<1	<1
	03/02/06	60	1.00	5.3	<1	<1	<1
	05/24/06	60	1.00	30	1.3	<1	<1
	09/12/06	60	1.00	<1	<1	<1	<1
	11/28/06	60	1.00	<1	<1	<1	<1
	02/27/07	60	1.00	1.0	<1	<1	<1
	05/15/07	60	1.00	1.6	<1	<1	<1
	08/21/07	60	1.00	11	0.54	<0.5	0.63
	11/26/07	60	1.00	3.3	<1	<1	<1
	02/26/08	60	1.00	2.5	<1	<1	<1
	05/14/08	60	1.00	2.8	<1	<1	<1
	08/18/08	60	1.00	2.9	<1	<1	<1
	12/12/08	60	1.00	<1	<1	<1	<1
	01/27/10	60	1.00	NS	NS	NS	NS
	04/27/10	60	1.00	NS	NS	NS	NS
	10/20/10	60	1.00	51	2.1	<1	<1
	11/02/10	60	0.046	12	<1	<1	1.5
	04/04/11	60	0.046	14	<1	<1	<1
	10/17/11	60	2.20	27	<1	<1	1.0
	04/16/12	60	2.20	28	<1	<1	1.2
	10/22/12	60	2.00	35	1.2	<1	1.1
	03/18/13	60	2.00	39	1.1	<1	1.6
	10/16/13	60	2.00	36	0.93	<0.50	1.3
	04/07/14	60	2.00	49	1.40	<1	1.4

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
				5	5	70	100
ADEQ AWQS							
EW-5 (55-20520)	08/19/14	60	2.00	38/40	1.0/1.1	<1/<1	1.4/1.3
	11/26/14	60	2.00	37/40	<1/<1	<1/<1	<1/<1
	02/24/15	60	2.00	42/42	1.1/1.1	<1/<1	1.4/1.4
	05/18/15	60	2.00	38/40	<1/1.0	<1/<1	1.3/1.6
	08/12/15	60	2.00	38/38	<1/<1	<1/<1	<1/<1
	12/17/15	60	2.00	35	<1	<1	1.7
	02/09/16	60	2.00	25	<1	<1	1.2
	05/11/16	60	2.00	11	<1	<1	<1
	08/30/16	60	2.00	6.8	<1	<1	<1
	11/15/16	60	2.00	9.6	<1	<1	3.4
	02/14/17	60	2.00	3.4	<1	<1	<1
	05/02/17	60	2.00	1.6	<1	<1	<1
INJ-1 (55-596441)	03/26/03	55.5	0.068	52	3.5	<2	<2
	05/15/03	60	--	7.5	<2	<2	<2
	06/12/03	60	0.031	3.2	<2	<2	<2
	07/16/03	60	0.039	3.4	<2	<2	<2
	09/04/03	60	0.034	4.5	<2	<2	<2
	10/14/03	60	0.039	<2	3.2	<2	<2
	11/13/03	60	0.039	<2	3.5	<2	<2
	12/03/03	60	0.039	<2	3.3	<2	<2
	02/10/04	60		<2	2.6	<2	<2
	03/04/04	60	0.049	28	<2	<2	<2
	06/08/04	60	0.046	7.1	1.8	<1	<1
	09/23/04	60	0.046	<1	<1	<1	1.7
	12/07/04	60		6.1	<1	<1	1.8
	02/18/05	60	0.05	15	<1	<1	1.8
	05/25/05	60	0.05	<1	<1	<1	<1
	09/21/05	60	0.045	3	<1	<1	<1
	12/06/05	60	0.045	2.0	<1	<1	1.8
	03/02/06	60	0.044	5.9	<1	<1	1.9
	05/23/06	60	0.044	<1	<1	<1	1.9
	09/12/06	60	0.046	1.4	<1	<1	<1
	11/29/06	60	0.046	<1	<1	<1	<1
	02/28/07	60	0.046	<1	<1	<1	<1
	05/17/07	60	0.046	<1	<1	<1	<1
	08/22/07	60	0.046	<0.5	<0.5	<0.5	<0.5
	11/28/07	60	0.046	<1	<1	<1	<1
	02/26/08	60	0.046	<1	<1	<1	<1
	05/13/08	60	0.046	<1	<1	<1	<1
	08/19/08	60	0.046	<1	<1	<1	<1
	12/10/08	60	0.046	<1	<1	<1	<1
Not sampled since 12/10/08							
INJ-2 (55-205421)	10/03/05	60	0.044	8.0	<1	<1	<1
	12/06/05	60	0.044	1.7	<1	<1	1.7

**Table 3-2 – Summary of Detected VOCs**  
**Tyson Wash WQARF Site**

Well ID (ADWR No.)	Date Sampled	Pump Intake Depth (ft)	Sample Flow Rate (gpm)	Volatile Organic Compound Concentrations ( $\mu\text{g/l}$ )			
				PCE Storet Code 34475	TCE Storet Code 34485/39180	C-1,2-DCE Storet Code 81686/77093	THM
<b>ADEQ AWQS</b>				<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>
INJ-2 (55-205421)	03/02/06	60	0.050	<b>6.1</b>	<1	<1	1.9
	05/23/06	60	0.046	<1	<1	<1	1.9
	09/12/06	60	0.046	<1	<1	<1	<1
	11/29/06	60	0.046	<1	<1	<1	<1
	02/28/07	60	0.046	<1	<1	<1	<1
	05/17/07	60	0.046	<1	<1	<1	<1
	08/22/07	60	0.046	<0.5	<0.5	<0.5	0.51
	11/28/07	60	0.046	<1	<1	<1	<1
	02/26/08	60	0.046	<1	<1	<1	3.0
	05/13/08	60	0.046	<1	1.0	<1	<1
	08/19/08	60	0.046	<1	1.1	<1	<1
	12/10/08	60	0.046	<1	<1	<1	1.2

Not sampled since 12/10/2008

**Notes:**

$\mu\text{g/l}$  - micrograms per liter  
 PCE - tetrachloroethene  
 TCE - trichloroethene  
 cis-1,2-DCE - *cis*-1,2-dichloroethene  
 THM - trihalomethanes  
 -- - data unavailable

EPA - U.S. Environmental Protection Agency  
 ADEQ - Arizona Department of Environmental Quality  
 AWQS - Aquifer Water Quality Standards

NE - Not Established  
 NA - Not Analyzed  
 D - Duplicate Sample

**Table 3-3 - Community Involvement and Public Comment Requirements**

<b>Community Involvement Activity</b>	<b>Regulatory Citation/Rule</b>	<b>Date</b>
Establish Community Involvement Area	A.R.S. §289.02	CIA was established December 1999
Notice of the site listing on the Registry	A.R.S. §287.01	Mailed to property owners on June 29, 1998; appeared in the Quartzsite Times on August 22 and September 2, 1998
Hazardous substance contamination notice	A.R.S. §289.02	Appeared in fact sheet published December 1999
Establish a CAB selection committee	A.R.S. §289.03	Selection Committee established and disbanded January 2000
Establish CAB	A.R.S. §289.03	Selected January 2000; first meeting February 2000
Public notice of CAB meetings	A.R.S. §289.03	At least 24 hours in advance of meetings; meeting agendas posted in ADEQ offices, ADEQ web page, and site mailing list
Issue notice of RI scope of work, fact sheet and outline of Community Involvement Plan (CIP)	A.R.S. §287.03	Appeared October 14 and 21, 1998, in Quartzsite Times newspaper
Designate a spokesperson	A.R.S. §289.03	Designated December 1999
Fact sheets	A.R.S. §289.03	Distributed in December 1999, October 2001 and June 2005
Interviews with community members	R18-16-404	Conducted October 1999, September 2001, November/December 2002, and June 2006
Establish information repository	A.R.S. §289.03	Established in June 1999 at the ADEQ Records Center and Quartzsite Library
Notice of availability of draft Land and Water Use Study	A.A.C. R18-16-404	Appeared in Quartzsite Times newspaper October 2, 2001
Public meeting to discuss draft Land and Water Use Study	A.A.C. R18-16-404	October 17, 2001
Notice of opportunity to comment on draft RI report and public meetings to establish Remedial Objectives (ROs)	A.R.S. §289.03	Appeared in Quartzsite Times newspaper October 3, 2001; October 30, 2002
Notice of availability of proposed RO report	A.A.C. R18-16-406	Appeared in Quartzsite Times newspaper October 30, 2002
Public meeting to discuss proposed RO report	A.A.C. R18-16-404	February 12, 2002; June 6, 2002
Public meeting to discuss revised RO report	A.A.C. R18-16-404	October 29, 2002
Notice of availability of final RO report and final RI report	A.A.C. R18-16-406	Notice was published on November 29, 2002
Notice of the availability of the FS work plan	A.A.C. R18-16-407	Notice was published on August 2007
Notice of the FS report	A.A.C. R18-16-407(I)	Notice was published on June 2007
Notice of the availability of the PRAP Public meeting to discuss PRAP	A.A.C. R18-16-404 (C)(1)(e)	Dated June 11, 2008
Notice of availability of ROD	A.A.C. R18-16-404 (C)(1)(f)	Notice was published on June 2009