

**DRAFT FINAL INDUSTRIAL SURVEY NO. 4
WEST VAN BUREN AREA
WQARF REGISTRY SITE
PHOENIX, ARIZONA**

Prepared for

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

Prepared by

**HydroGeoLogic, Inc.
340 East Palm Lane, Suite A240
Phoenix, Arizona 85004**

**ADEQ Contract No. 13-048324
ADEQ Task Assignment No. 14-055448**

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The findings, opinions, and conclusions contained in this report are solely those of HydroGeoLogic, Inc. These findings, opinions, and conclusions do not necessarily reflect the position of the State of Arizona, or any of its departments or agencies.

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TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1-1
2.0 INDUSTRIAL SURVEY	2-1
2.1 IDENTIFICATION OF SITE BOUNDARY	2-1
2.2 METHODOLOGY	2-2
2.2.1 City of Phoenix Directory Research	2-3
2.2.2 U.S. Environmental Protection Agency	2-3
2.2.2.1 Envirofacts Multi-System Queries Database Files	2-3
2.2.2.2 Comprehensive Environmental Response, Compensation, and Liability Act Files	2-3
2.2.3 Arizona Department of Environmental Quality	2-4
2.2.3.1 Resource Conservation and Recovery Act Files	2-4
2.2.3.2 Preliminary Assessment/Site Inspection Files	2-4
2.2.3.3 Underground Storage Tank/Leaking Underground Storage Tank Files	2-4
2.2.3.4 Arizona Department of Environmental Quality Water Quality Database Files	2-4
2.2.3.5 Registered Dry Well Files	2-4
2.2.3.6 Water Quality Assurance Revolving Fund Files	2-4
2.2.3.7 Septic Tank File Results	2-5
2.2.3.8 Hazardous Waste Box Storage, Hazardous Materials Incident Logbook, and Hazardous Waste Inspection Files	2-5
2.2.3.9 Air Quality Files	2-5
2.2.4 Maricopa County	2-5
2.2.4.1 Maricopa County Air Quality Department Files	2-5
2.2.5 City of Phoenix	2-5
2.2.5.1 City of Phoenix Fire Department Hazardous Materials Incident Files	2-5
2.2.5.2 City of Phoenix Water Services Department – Pollution Control Division Files	2-6
2.2.6 HydroGeoLogic, Inc., Water Quality Assurance Revolving Fund Site Files	2-6
2.3 FACILITIES EXCLUDED FROM INDUSTRIAL SURVEY	2-6
2.3.1 AT&T Technologies/Belden Communications/Cable Systems, International, Inc. (505 North 51 st Avenue)	2-7
2.3.2 Dolphin, Inc. (740 South 59 th Avenue)	2-7
2.3.3 Joe’s Diesel Repair (6316 West Van Buren Street)	2-8
2.3.4 Maximet Corporation (5925 West Monroe Street)	2-8
2.3.5 Petco, Inc. (304 South 67 th Avenue)	2-8
2.3.6 Salesco Systems USA (5736 and 5752 West Jefferson Street)	2-8

TABLE OF CONTENTS (continued)

	Page
3.0 INDUSTRIAL SURVEY RESULTS.....	3-1
3.1 CITY OF PHOENIX DIRECTORY RESULTS	3-1
3.2 U.S. ENVIRONMENTAL PROTECTION AGENCY	3-1
3.2.1 U.S. Envirofacts Multi-System Queries Database File Results	3-1
3.2.2 Comprehensive Environmental Response, Compensation, and Liability Act File Results	3-2
3.3 ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY	3-2
3.3.1 Resource Conservation and Recovery Act File Results	3-2
3.3.2 Preliminary Assessment/Site Inspection File Results	3-3
3.3.3 Underground Storage Tank/Leaking Underground Storage Tank Files Results	3-4
3.3.3.1 7-Eleven, Inc. Store No. 22631 (5050 West McDowell Road)	3-9
3.3.3.2 Circle K Stores, Inc. No. 0608 (6440 West Van Buren Street)	3-15
3.3.3.3 Fry’s Food Stores of Arizona, Inc./Kroger Company (6101 West Washington Street)	3-19
3.3.3.4 KAG West, LLC/Beneto Tank Lines, Inc. (6035 West Washington Street)	3-19
3.3.3.5 Southwest Freeport/The RREEF Funds (431 North 47 th Avenue)	3-19
3.3.4 Registered Dry Well File Results	3-20
3.3.4.1 Auto Shack (4741 West Polk Street)	3-20
3.3.4.2 B&R Building (125 North 67 th Avenue)	3-21
3.3.4.3 Beneto Tank Lines, Inc. (6045 West Washington Street)	3-21
3.3.4.4 City of Phoenix (69 th Avenue from Farmer Road to West Van Buren Street)	3-21
3.3.4.5 D.S.O. Leasing (125 North 61 st Avenue)	3-21
3.3.4.6 First Commons (4537 West McDowell Road).....	3-22
3.3.4.7 G&K Services, Inc. (4804 West Roosevelt Street)	3-22
3.3.4.8 G.I. Trucking (5939 West Washington Street)	3-22
3.3.4.9 Goodyear Building (4501 West Polk Street)	3-23
3.3.4.10 Imagineering/Creative Images, Inc./Office/Warehouse (6025 West Van Buren Street)	3-23
3.3.4.11 Ingram Paper Co. (430 North 47 th Avenue).....	3-23
3.3.4.12 Mack Papago Warehouse, Lot 3/Unisource Worldwide (844 North 44 th Avenue)	3-24
3.3.4.13 Metal Form Manufacturing (5960 West Washington Street)	3-24

TABLE OF CONTENTS (continued)

	Page
3.3.4.14 Multi-Tenant Commercial Center (402 North 44 th Avenue)	3-24
3.3.4.15 Papago Distribution Center/USPS Phoenix PMPPC (620 North 47 th Avenue)	3-25
3.3.4.16 Papago Industrial Park (302 North 45 th Avenue).....	3-25
3.3.4.17 Papago West (43 rd Avenue and Roosevelt Street)	3-25
3.3.4.18 RJB Development Phase III (4405 West Roosevelt Road)	3-26
3.3.4.19 RJB Warehouse Phase III (4411 West Roosevelt Street)	3-26
3.3.4.20 Sharon Stair System (6029 West Washington Street).....	3-26
3.3.4.21 Smart & Final (1450 North 43 rd Avenue)	3-26
3.3.4.22 Southwest Freeport Warehouse (431 North 47 th Avenue)	3-26
3.3.4.23 Southwest Regional Council of Carpenters (45 th Avenue and McDowell Road)	3-27
3.3.4.24 ValWest Technologies, Inc. (430 North 47 th Avenue)	3-27
3.3.4.25 Warehouse Facility (4801 West Polk Street)	3-27
3.3.5 Water Quality Assurance Revolving Fund File Results	3-27
3.3.5.1 Arizona Meadows (67 th Avenue and Durango Road).....	3-28
3.3.6 Septic Tank Files Results.....	3-28
3.3.6.1 Modern Component Systems (6323 West Van Buren Street)	3-29
3.3.7 Hazardous Waste Box Storage, Hazardous Materials Incident Logbook, and Hazardous Waste Inspections Files Results.....	3-29
3.3.7.1 Bill Birmingham (950 North 67 th Avenue)	3-29
3.3.7.2 DNS Trucking (Interstate 10 and 43 rd Avenue).....	3-29
3.3.7.3 Fowler School (67 th Avenue and West Van Buren Street)	3-29
3.3.7.4 G.I. Trucking (5939 West Washington Street)	3-30
3.3.7.5 Nalco Chemical (6330 West Van Buren Street)	3-30
3.3.7.6 South Western Ice (5925 West Van Buren Street)	3-30
3.3.7.7 Unknown/City of Phoenix (4839 West Brill Street)	3-30
3.3.7.8 Unknown (624 North 44 th Avenue).....	3-31
3.3.7.9 Unknown (304 South 67 th Avenue)	3-31
3.3.8 Air Quality Files Results	3-31
3.3.8.1 Powerscreen Southwest, Inc. (304 South 67 th Avenue)	3-31
3.3.8.2 T.S.R. Contracting, Inc. (30 North 63 rd Avenue).....	3-32
3.4 MARICOPA COUNTY	3-33
3.4.1 Maricopa County Air Quality Department File Results	3-33

TABLE OF CONTENTS (continued)

		Page
	3.4.1.1 Ameripride Linen & Apparel Service (6025 West Van Buren Street)	3-33
	3.4.1.2 Crane Trucking (440 South 67 th Avenue)	3-33
	3.4.1.3 DEMD, LLC Warehouse (520 South 67 th Avenue).....	3-33
	3.4.1.4 Jacks Tire & Oil (5925 West Monroe Street).....	3-34
	3.4.1.5 Madera Component Systems, Inc. (6323 West Van Buren Street)	3-34
	3.4.1.6 Palo Verde Cabinets Company, Inc. (4625 West McDowell Road)	3-34
	3.4.1.7 PW Pipe (425 South 67 th Avenue)	3-34
	3.4.1.8 Sharon Stair Systems LTD (6029 West Washington Street)	3-34
	3.4.1.9 Varistar Corporation (201 South 61 st Avenue).....	3-34
	3.4.1.10 Vinyltech Corporation (201 South 61 st Avenue).....	3-35
3.5	CITY OF PHOENIX.....	3-35
	3.5.1 City of Phoenix Fire Department File Results	3-35
	3.5.1.1 7-Eleven Store No. 22631 (5050 West McDowell Road)	3-37
	3.5.1.2 Ameripride Linen & Apparel (6025 West Van Buren Street)	3-37
	3.5.1.3 Arts Complete Auto Service (6425 West Van Buren Street)	3-37
	3.5.1.4 AutoZone (4335 West McDowell Road)	3-37
	3.5.1.5 Charles M. Schayer, Inc. (4703 West Brill Street)	3-37
	3.5.1.6 Circle K Food Store No. 0608 (6440 West Van Buren Street)	3-38
	3.5.1.7 Creative Images, Inc. (6025 West Monroe Road)	3-38
	3.5.1.8 Duke Construction LP (520 South 67 th Avenue)	3-38
	3.5.1.9 Dunn Edwards Corp (520 South 67 th Avenue).....	3-38
	3.5.1.10 First Industrial Development Services, LLC (4625 West McDowell Road)	3-38
	3.5.1.11 Freeport Logistics, Inc. (431 North 47 th Avenue).....	3-39
	3.5.1.12 Huhtamaki Plastics (402 North 44 th Avenue)	3-39
	3.5.1.13 Ingram Paper Company (430 North 47 th Avenue)	3-39
	3.5.1.14 Innovative Environmental Products (4645 West McDowell Road)	3-39
	3.5.1.15 Ken’s Custom Detail (304 South 67 th Avenue)	3-40
	3.5.1.16 Kiser Harriss Chemical Distribution Centers, Inc. (4441 West Polk Street)	3-40
	3.5.1.17 Lambertson Industries (425 South 67 th Avenue).....	3-40
	3.5.1.18 Lorn Technical Coatings, Division of Maximet (116 North 59 th Avenue).....	3-40

TABLE OF CONTENTS (continued)

	Page
3.5.1.19	Michelin Tire Co. (5925 West Monroe Street)..... 3-41
3.5.1.20	Mirachem Corporation (4645 West McDowell Road) 3-41
3.5.1.21	Palo Verde Cabinet Company, Inc. (4625 West McDowell Road) 3-41
3.5.1.22	Palo Verde Enterprises (6215 West Van Buren Street) 3-41
3.5.1.23	Prudence Trucking (430 North 47 th Avenue) 3-42
3.5.1.24	Rawson Drug (4645 West Polk Street) 3-42
3.5.1.25	Rugby IPD Corp (4703 West Brill Street) 3-42
3.5.1.26	Ruth’s Snow Cones (6425 West Van Buren Street)..... 3-42
3.5.1.27	Southwest Powder Coating (116 North 59 th Avenue)..... 3-43
3.5.1.28	SuperValu Logistics (6104 West Washington Street)..... 3-43
3.5.1.29	SuperValu Logistics/Fry’s Distribution Center/Target (6111 West Washington Street) 3-43
3.5.1.30	Total Warehouse, Inc. (402 North 44 th Avenue) 3-44
3.5.1.31	Total Warehouse, Inc. (4411 West Roosevelt Street) 3-44
3.5.1.32	Verizon Wireless (505 North 51 st Avenue)..... 3-45
3.5.1.33	Vinyltech Corporation (201 South 61 st Avenue)..... 3-45
3.5.1.34	Western Electric Company (505 North 51 st Avenue) 3-45
3.5.2	City of Phoenix Water Services Department – Pollution Control Division Files Results 3-46
3.5.2.1	Ameripride Services, Inc. (6025 West Van Buren Street) 3-47
3.5.2.2	G&K Services, Inc. (4804 West Roosevelt Street) 3-47
3.6	HYDROGEOLOGIC, INC., WATER QUALITY ASSURANCE REVOLVING FUND SITE FILES RESULTS..... 3-47
3.6.1	Ameripride Services, Inc. (6025 West Van Buren Street) 3-47
3.6.2	Banner Construction Company, Inc. (6805 West Van Buren Street)..... 3-48
3.6.3	Crane Trucking/Crane & Hayes Trucking (440 South 67 th Avenue) 3-48
3.6.4	Imagineering, Inc./Creative Images, Inc. (6025 West Van Buren Street)..... 3-48
3.6.5	G&K Services, Inc. (4804 West Roosevelt Street)..... 3-49
3.6.6	G.I. Trucking (5939 West Washington Street)..... 3-49
3.6.7	Ray Hoopes Concrete Company (224 North 59 th Avenue)..... 3-49
4.0	CONCLUSIONS, DATA GAPS, AND RECOMMENDATIONS..... 4-1
4.1	CONCLUSIONS..... 4-1
4.2	DATA GAPS..... 4-6
4.3	RECOMMENDATIONS 4-6

LIST OF FIGURES

	Page
Figure 1.1 Site Location	1-3
Figure 3.1 Facilities with USTs and/or LUSTs.....	3-7
Figure 3.2 7-Eleven, Inc. Store No. 22631 Monitoring Wells.....	3-13
Figure 3.3 Circle-K Stores, Inc. No. 0608 Monitoring Wells	3-17
Figure 4.1 Facilities of Interest.....	4-3
Figure 4.2 Facilities for Additional Research.....	4-7

LIST OF TABLES

	Page
Table 1.1 Alpha Codes	1-2
Table 2.1 Industrial Survey Street Ranges.....	2-1
Table 2.2 Facilities Excluded from Industrial Survey	2-7
Table 3.1 Facilities with RCRA Identification Numbers in Multi-System Queries Database	3-1
Table 3.2 Facilities with RCRA Identification Numbers in MegaSearch and AZURITE Databases	3-2
Table 3.3 Facilities with USTs and/or LUSTs.....	3-5
Table 3.4 Soil Sampling Data Ranges for TPH and BTEX, 1993, 1997, 1999, and 2008 ...	3-9
Table 3.5 Groundwater Sampling Data for BTEX, 2000-2013	3-11
Table 3.6 Groundwater Sampling Data for VOCs and BTEX, 1993-1998 and 2000.....	3-16
Table 3.7 Facilities with Registered Dry Wells.....	3-20
Table 3.8 Facilities with No Documented Use of WQARF Site COCs or Other Site Contaminants	3-36
Table 4.1 Facilities for Additional Research.....	4-6

LIST OF APPENDICES

Appendix A	City Directory Research Results
Appendix B	Source Documents (Provided on DVD)

LIST OF ACRONYMS/ABBREVIATIONS

7-Eleven	7-Eleven, Inc.
A.T.O.	authorization to operate
ADEQ	Arizona Department of Environmental Quality
AWQS	Aquifer Water Quality Standard
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
Circle K	Circle K Stores, Inc.
<i>cis</i> -1,2-DCE	<i>cis</i> -1,2-dichloroethene
COC	contaminant of concern
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System
ERU	Emergency Response Unit
°F	Fahrenheit
Fry's	Fry's Food Stores of Arizona, Inc.
GPL	groundwater protection level
HGL	HydroGeoLogic, Inc.
Kroger	Kroger Company
LUST	leaking underground storage tank
$\mu\text{g}/\text{kg}$	micrograms per kilogram
$\mu\text{g}/\text{L}$	micrograms per liter
mg/kg	milligrams per kilogram
NOI	notice of intent
OAR	occupancy activity report

LIST OF ACRONYMS/ABBREVIATIONS (continued)

PA	Preliminary Assessment
PCE	tetrachloroethene
Powerscreen	Powerscreen Southwest, Inc.
RCRA	Resource Conservation and Recovery Act
SI	Site Inspection
SIC	Standard Industrial Classification
SRL	soil remediation level
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound
WQARF	Water Quality Assurance Revolving Fund
WVBA	West Van Buren Area

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1.0 INTRODUCTION

On November 28, 2012, the Arizona Department of Environmental Quality (ADEQ) requested that HydroGeoLogic, Inc. (HGL) conduct an industrial survey for two areas located within the West Van Buren Area (WVBA) Water Quality Assurance Revolving Fund (WQARF) Registry Site (site) in Phoenix under ADEQ Contract No. EV07-0046, Task Assignment No. 07-0149. This report, which has been revised under ADEQ Contract No. 13-048324, Task Assignment No. 14-055448, provides the findings of the industrial survey. Figure 1.1 depicts the boundaries of the two industrial survey areas (4a and 4b) and the estimated boundaries of the groundwater plume associated with the WVBA WQARF site.¹

The contaminants of concern (COCs) for the WVBA WQARF site include tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and chromium.² The benzene, toluene, ethylbenzene, and xylenes (BTEX) group was once considered a COC because of detections at various locations throughout the plume. However, BTEX was dropped from the COC list because it was limited to leaking underground storage tank (LUST) facilities regulated by the ADEQ Underground Storage Tank (UST) Program. Furthermore, BTEX contamination is limited in extent to an area beneath aboveground storage tanks at the Phoenix Terminal. Releases at the Phoenix Terminal are regulated under the ADEQ UST Program and Voluntary Remediation Program [WVDEQP 43776]. In performing the industrial survey, HGL identified businesses located within the industrial survey boundaries that may have used the WQARF site COCs or the other site contaminants identified above. Section 2.0 of this report describes the boundaries for the industrial survey areas; explains HGL's research methodology; and summarizes information pertaining to facilities that were located within the industrial survey areas but were excluded from this industrial survey because they had been investigated previously. Section 3.0 details the results of the industrial survey research. Appendix A provides the results of the city directory research. Appendix B contains a DVD with PDF copies of the source documents used to compile this industrial survey.

Documents obtained during the course of this investigation were assigned an alpha-numeric code corresponding to the source from which they were obtained, and were numbered sequentially within each source. When a document consisted of more than one page, each page

¹ HGL used 4a and 4b to identify the industrial survey boundaries because in 2002 it conducted three other industrial surveys related to the WVBA WQARF site under Contract No. 01-0069. This report is identified as Industrial Survey No. 4 to distinguish it from those previous efforts.

² A COC, as defined by Arizona Administrative Code R18-16-401, "means a hazardous substance that results from a release and that has been identified by the Department [ADEQ] as the subject of remedial action at a site" [18 Arizona Administrative Code 16, (supp. 02-1) (effective March 4, 2002)].

was numbered. Within this report, alpha-numeric codes following a statement or group of statements designate the supporting document(s) from which the information was extracted. Table 1.1 lists the alpha codes assigned to the sources from which HGL collected information that is relevant to this industrial survey.

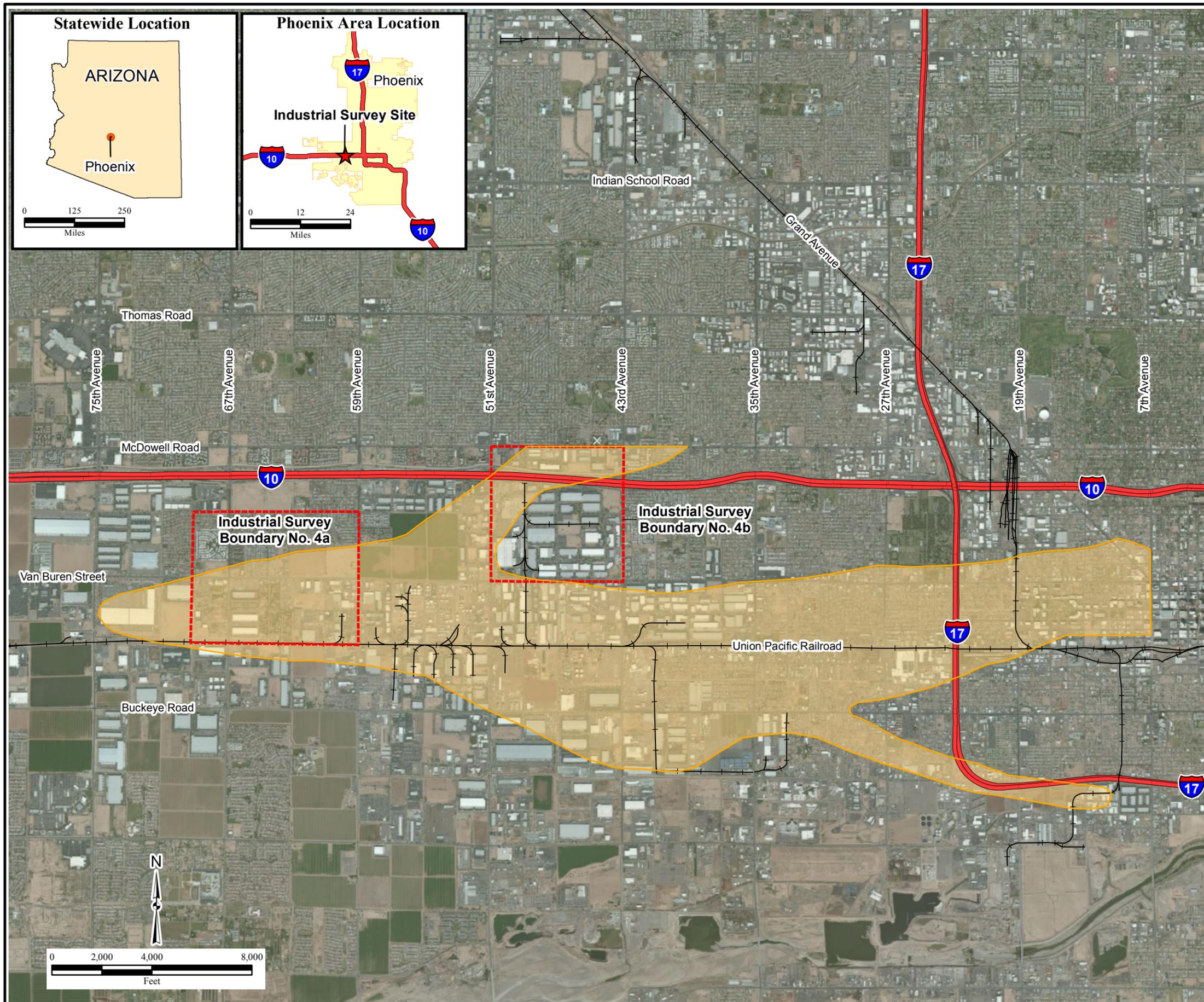
Table 1.1
Alpha Codes

Alpha Code	Source
BPSPIN*	Spinelli Investigations
GDASOS**	Arizona Secretary of State Guidance Document
GDDEQW**	ADEQ Website Guidance Document
WVCPWS	City of Phoenix Water Services – Pollution Prevention
WVDEQI	ADEQ 202 Facility
WVDEQP	ADEQ Phoenix Office
WVEPAW	U.S. Environmental Protection Agency Website
WVFDPX	City of Phoenix Fire Department
WVHGLC	HydroGeoLogic, Inc., Central File
WVINET	Internet
WVMCAQ	Maricopa County Air Quality Department

*This document source is from the Broadway-Pantano WQARF site file.

**This document source is for guidance documents related to regulatory standards protective of human health and the environment.

Figure 1.1
Site Location



Legend

-  Railroad
-  Interstate
-  Industrial Survey Boundary
-  Estimated Groundwater Plume Area,
September 2013

\\Gst-srv-01\hgl\gis\West_Van_Buren\MSIW\IS\
(1-01)Site_Loc.mxd
2/27/2014 RB
Source: ADEQ, ESRI
ArcGIS Online Aerial Imagery

2.0 INDUSTRIAL SURVEY

2.1 IDENTIFICATION OF SITE BOUNDARY

HGL conducted an industrial survey to assist ADEQ in its continuing investigation of the WVBA WQARF site. ADEQ identified two boundaries for the industrial survey area. The first of these areas, Industrial Survey Boundary No. 4a, is bounded by Roosevelt Street to the north, the Union Pacific Railroad tracks to the south, 69th Avenue to the west, and 59th Avenue to the east. The second of these areas, Industrial Survey Boundary No. 4b, is bounded by McDowell Road to the north, Van Buren Road to the south, 51st Avenue to the west, and 43rd Avenue to the east.

HGL used the Maricopa County online geographic information systems mapping program to determine the street address ranges within the industrial survey boundaries. The results were then cross-checked with geographic information systems database information from Arizona State University. Figure 1.1 in Section 1.0 depicts the boundaries of the industrial survey. The street address ranges within the industrial survey boundaries are identified in Table 2.1 below.

**Table 2.1
Industrial Survey Street Ranges**

From	To	Street Name
620	1540	North 43 rd Avenue [±]
353	844	North 44 th Avenue
301	351	North 45 th Avenue
430	1120	North 47 th Avenue
1424	1530	North 50 th Avenue*
1025	1525	North 51 st Avenue [±]
2	1098	North 59 th Avenue* [±]
2	498	South 59 th Avenue* [±]
2	1098	North 59 th Drive*
2	1098	North 59 th Lane*
800	1099	North 60 th Drive
1	899	North 61 st Avenue
1	299	South 61 st Avenue
600	1099	North 61 st Drive
800	1099	North 61 st Lane*
800	1099	North 62 nd Avenue
600	899	North 62 nd Drive*
600	899	North 62 nd Lane*
10	1299	North 63 rd Avenue
22	299	South 64 th Avenue
2	299	South 64 th Drive
600	899	North 65 th Avenue*
103	123	South 65 th Drive
104	522	North 66 th Lane

[±]Industrial survey boundary streets were reviewed only for addresses inclusive of the boundaries; therefore, only odd numbered addresses were reviewed for 51st Avenue and only even numbered addresses were reviewed for 43rd and 59th Avenues.

*HGL searched city directories for these street ranges; however, they are excluded from Appendix A because they are residential areas.

Table 2.1 (concluded)
Industrial Survey Street Ranges

From	To	Street Name
6	899	North 67 th Avenue
14	2211	South 67 th Avenue
800	899	North 67 th Drive
800	899	North 67 th Lane*
800	899	North 68 th Avenue*
1	6999	North 69 th Avenue [#]
1	99	South 69 th Avenue [#]
6511	6924	West Adams Street
6101	6999	West Beatrice Street
4703	4931	West Brill Street
1	299	West Farmer Road*
6743	6839	West Farmer Road
4301	4398	West Fillmore Street
6327	6939	West Fillmore Street
5901	6999	West Garfield Street
6602	6638	West Hayes Street
6401	6499	West Jackson Street*
6605	6637	West Johnson Street
4301	5035	West McDowell Road [#]
5901	6999	West McKinley Street
6603	6999	West Melvin Street*
5901	6636	West Monroe Street
5901	6999	West Pierce Street*
4551	4802	West Polk Street
6901	6999	West Polk Street*
4320	4910	West Roosevelt Street [#]
5901	6999	West Roosevelt Street [#]
6606	7099	West Taylor Street
4550	4802	West Van Buren Street [#]
5711	7099	West Van Buren Street [#]
5901	6099	West Villa Street
5701	6999	West Washington Street

*HGL searched city directories for these street ranges; however, they are excluded from Appendix A because they are residential areas.

[#]Industrial survey boundary streets were reviewed only for addresses inclusive of the boundaries; therefore, only odd numbered addresses were reviewed for 69th Avenue, McDowell Road, and Roosevelt Street. Van Buren Street is included in both Industrial Survey Boundaries Nos. 4a and 4b, but both even and odd numbered addresses are included in Industrial Survey Boundary No. 4a and only even addresses are included in Industrial Survey Boundary No. 4b.

2.2 METHODOLOGY

HGL reviewed multiple resources to identify businesses that operated within the industrial survey boundaries. When possible, HGL attempted to ascertain the nature of these businesses. HGL conducted searches of U.S. Environmental Protection Agency (EPA) website databases to locate relevant files regarding the businesses located within the industrial survey boundaries. HGL also contacted the City of Phoenix and Maricopa County to locate files applicable to these businesses. With assistance from ADEQ records management staff, HGL conducted an extensive search of ADEQ databases to locate files pertaining to businesses within the industrial survey boundaries. To locate relevant regulatory files, HGL used the zip codes

85035 and 85043, and the address ranges listed in Table 2.1, to conduct searches. If results were collected for facilities near, but not inside these boundaries, those results were included in the appropriate regulatory records sections if they indicated that the facilities used the WQARF site COCs or other site contaminants, or if the WQARF site COCs or other site contaminants were detected in groundwater or soil samples collected from the facilities. The subsections below describe HGL’s research methodology.

2.2.1 City of Phoenix Directory Research

HGL reviewed available Phoenix city directories published by Cole’s and Polk’s at the Arizona State Capitol Archives Library for the years 1960 to 2013. HGL identified the first commercial entity within the industrial survey boundaries in the 1963 directory. HGL copied the pages of the directories that addressed the street address ranges within the industrial survey boundaries.

HGL identified businesses located within the industrial survey boundaries through the street directory guide portion of the city directories beginning in 2013 and working backward to 1960. Where HGL identified 3 consecutive years of directory results without industrial presence for a particular address range, city directories for that range were only reviewed every 5 years dating back until industry was again identified, at which time HGL returned to conducting searches for that range every year. If the directories did not provide sufficient information to identify the types of operations that a business may have performed, then HGL conducted an Internet search of the company name to obtain additional information. If information identifying the type of operation could not be found through these means, the type of operation was listed as “unidentified” in the city directory results tables included in Appendix A.

Minor variations often occurred in business names over time. HGL assumed that businesses with similar names operating at the same address were the same business and were conducting the same operations. In tables compiled of city directory research, HGL noted the more descriptive name for all years during which the business operated. See Section 3.1 and Appendix A for city directory results.

2.2.2 U.S. Environmental Protection Agency

2.2.2.1 Envirofacts Multi-System Queries Database Files

HGL searched EPA’s Envirofacts Multi-System Queries database via the Internet to identify Resource Conservation and Recovery Act (RCRA) facilities. HGL queried the database using the company names identified in Appendix A. A search of the database identified 11 facilities within the industrial survey boundaries that have RCRA identification numbers.

2.2.2.2 Comprehensive Environmental Response, Compensation, and Liability Act Files

HGL searched the EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database via the Internet to locate Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites within the industrial survey boundaries. HGL queried the database by street address and zip code. No sites were identified within the industrial survey boundaries.

2.2.3 Arizona Department of Environmental Quality

2.2.3.1 Resource Conservation and Recovery Act Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases for any RCRA files pertaining to facilities within the industrial survey boundaries. The databases were queried using street addresses. ADEQ identified 33 facilities within the industrial survey boundaries and 2 additional facilities located in close proximity to the industrial survey boundaries with RCRA identification numbers, but no facilities were identified with RCRA files. Additionally, the ADEQ RCRA open and closed case and RCRA compliance log finding aids did not include any files on facilities within the industrial survey boundaries.

2.2.3.2 Preliminary Assessment/Site Inspection Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases for Preliminary Assessment (PA)/Site Inspection (SI) files for facilities within the industrial survey boundaries. The database was queried using street addresses. ADEQ identified two facilities within the industrial survey boundaries with PA/SI files. HGL reviewed and collected documents for these two facilities.

2.2.3.3 Underground Storage Tank/Leaking Underground Storage Tank Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases for UST and LUST files. The databases were queried using street addresses to identify facilities within the industrial survey boundaries. A review of the databases was used to determine if any facilities maintained tanks containing waste oil, used oil, solvents, or an unknown product. HGL also searched the online UST and LUST databases by company name to supplement ADEQ's search. ADEQ and HGL identified 24 facilities with USTs and LUSTs located within the industrial survey boundaries, and 4 facilities with USTs and LUSTs located near, but outside the industrial survey boundaries. HGL reviewed and collected documents for these 28 facilities.

2.2.3.4 Arizona Department of Environmental Quality Water Quality Database Files

HGL did not request that ADEQ conduct a search of its Water Quality Database pursuant to discussions with ADEQ, but HGL did obtain information available in the database such as well location and sampling data through other files at ADEQ.

2.2.3.5 Registered Dry Well Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases to identify registered dry wells within the industrial survey boundaries. The databases were queried using street addresses. Files were identified for 28 facilities within the industrial survey boundaries. Files for these 28 facilities and 83 dry wells within the industrial survey boundaries were reviewed.

2.2.3.6 Water Quality Assurance Revolving Fund Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases by street address to identify WQARF files for facilities located within the industrial survey boundaries. Files

were identified for two facilities located within the industrial survey boundaries, and for one facility located in close proximity to the industrial survey boundaries. HGL reviewed and collected WVBA WQARF files for these three facilities.

2.2.3.7 Septic Tank File Results

HGL requested that ADEQ search for septic tank files for facilities located within the industrial survey boundaries.³ The index sheets were searched using street addresses. A file was identified for one facility located within the industrial survey boundaries. HGL reviewed and collected documents for this one facility.

2.2.3.8 Hazardous Waste Box Storage, Hazardous Materials Incident Logbook, and Hazardous Waste Inspection Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases for hazardous waste box storage, hazardous material incident logbook results, and hazardous waste inspection files for facilities located within the industrial survey boundaries. The databases were queried using street addresses. Files were identified for nine facilities located within the industrial survey boundaries. HGL reviewed and collected documents for these nine facilities.

2.2.3.9 Air Quality Files

HGL requested that ADEQ search its MegaSearch and AZURITE databases for air quality files. The databases were queried using street addresses to identify facilities within the industrial survey boundaries. A review of the databases was used to determine if any facilities had received air quality permits or violations that mentioned the use of the WQARF site COCs or other site contaminants. ADEQ identified three facilities with air quality files located within the industrial survey boundaries. HGL reviewed and collected documents for these three facilities.

2.2.4 Maricopa County

2.2.4.1 Maricopa County Air Quality Department Files

HGL submitted a records request to the Maricopa County Air Quality Department for files pertaining to businesses within the industrial survey boundaries. The records request listed street addresses related to the industrial survey boundaries. Maricopa County located files relating to 10 facilities within the industrial survey boundaries. HGL reviewed and collected documents for these 10 facilities.

2.2.5 City of Phoenix

2.2.5.1 City of Phoenix Fire Department Hazardous Materials Incident Files

HGL submitted a records request to the City of Phoenix Fire Department for hazardous materials incident files pertaining to businesses within the industrial survey boundaries. Per direction from ADEQ, HGL's records request listed 33 companies with RCRA identification

³ The septic tank files at ADEQ are not available on the MegaSearch or AZURITE databases. ADEQ has index sheets available to locate relevant septic tank files.

numbers that operated at 29 street addresses within the industrial survey boundaries and 2 companies, also with RCRA identification numbers, that operated at 2 addresses located in close proximity to the industrial survey boundaries.⁴ The City of Phoenix Fire Department located files for 71 businesses that operated at the 31 street addresses.⁵ HGL reviewed and collected documents for these 71 businesses. At the request of ADEQ, HGL requested City of Phoenix Fire Department files for an additional four addresses and one intersection associated with companies that are mentioned in Section 4.1 of this report, but that did not have RCRA identification numbers associated with them.⁶ HGL reviewed and collected documents for the four additional addresses. However, it did not review documents associated with the one intersection because the City of Phoenix Fire Department is unable to locate records associated with an intersection [WVFDPX 1059].

2.2.5.2 City of Phoenix Water Services Department – Pollution Control Division Files

HGL submitted a records request to the City of Phoenix Water Services Department – Pollution Control Division for files pertaining to specific businesses within the industrial survey boundaries. HGL provided the names and addresses of the facilities subject to the request. The City of Phoenix Water Services Department – Pollution Control Division located files for two facilities within the industrial survey boundaries, and one facility located outside the industrial survey boundaries. HGL reviewed and collected documents for these three facilities.

2.2.6 HydroGeoLogic, Inc., Water Quality Assurance Revolving Fund Site Files

HGL conducted an electronic search of Arizona WQARF sites files housed at HGL for information on businesses located within the industrial survey boundaries, with the exception of facilities previously investigated (see Table 2.2 below). HGL identified and reviewed files relating to seven facilities.

2.3 FACILITIES EXCLUDED FROM INDUSTRIAL SURVEY

HGL excluded facilities from this industry survey if the facilities had been investigated previously and reports had been issued summarizing the results of these previous investigations. Table 2.2 below lists the facilities located within the industrial survey boundaries but excluded from this report.

⁴ The 35 companies and 31 street addresses were identified through a search of ADEQ’s MegaSearch and AZURITE databases.

⁵ The City of Phoenix Fire Department searched for records by street address and provided HGL files for both facilities with and without RCRA identification numbers.

⁶ The addresses and intersection provided by HGL include 431 North 47th Avenue, 5050 West McDowell Road, 6025 West Van Buren Street, 6440 West Van Buren Street, and 67th Avenue and Durango Street [WVFDPX 1060]. Regulatory records list Arizona Meadows at the intersection of 67th Avenue and Durango Street. HGL could not locate a specific address for Arizona Meadows through either an initial city directory search or Internet research.

Table 2.2
Facilities Excluded from Industrial Survey

Facility Name	Facility Address	Source Document*
AT&T Technologies	505 North 51 st Avenue	WVHGLC 4402-4741
Belden Communications		
Cable Systems International, Inc.		
Dolphin, Inc.	740 South 59 th Avenue	WVHGLC 20362-20467
Joe's Diesel Repair	6316 West Van Buren Street	WVHGLC 2150-2173
Maximet Corporation	5925 West Monroe Street	WVHGLC 5412-5612
Petco, Inc.	304 South 67 th Avenue	WVHGLC 1617-1667
Salesco Systems USA	5736 and 5752 West Jefferson Street	WVHGLC 8766-8898

*The source documents cited in the table are considered Attorney Work Product and are not included in Appendix B.

HGL previously investigated the facilities listed in Table 2.2 above by reviewing regulatory records to locate documents regarding use and releases of WQARF site COCs and other site contaminants at the facilities. Below is a summary of non-confidential information collected for the facilities during previous investigations.

2.3.1 AT&T Technologies/Belden Communications/Cable Systems, International, Inc. (505 North 51st Avenue)

On March 29, 2004, HGL issued a letter report to ADEQ for AT&T Technologies, located at 505 North 51st Avenue. The letter report also addresses Belden Communications and Cable Systems International, Inc., because they operated at 505 North 51st Avenue.⁷ According to a November 2, 1992, SI report prepared by ADEQ, the COCs 1,1-DCE, 1,1-DCA, 1,1,1-TCA, TCE, and PCE were detected in soil and soil gas samples at the facility. The COC chromium was also detected in soil samples at the facility. According to this same report, AT&T generated the following hazardous wastes: 1,1,1-TCA, methyl ethyl ketone, sulfuric acid and sodium hydroxide from the water treatment process, and laboratory waste containing inorganic waste (acids) [WVDEQP 7567, 7574, 7579-7580].

2.3.2 Dolphin, Inc. (740 South 59th Avenue)

In February 2012, HGL issued a report to ADEQ regarding the Dolphin, Inc., facility located at 740 South 59th Avenue. According to a 1993 hazardous waste report prepared by EPA, the COCs PCE, chromium, and 1,1,1-TCA were used at the facility [WVDEQI 6826-6846]. Additionally, since 1992, several investigations of soil, soil vapor, and groundwater have been conducted at the Dolphin, Inc., facility. COCs detected in these investigations include PCE, TCE, 1,1-DCE, *cis*-1,2-DCE, 1,1,1-TCA, and chromium. PCE has been found in greater concentrations than other COCs [WVDEQP 13-15, 7865].

⁷ Western Electric and Verizon Wireless both operated at 505 North 51st Avenue, but were not included in the 2004 letter report; therefore, results regarding Western Electric and Verizon Wireless have been included in this industrial survey.

2.3.3 Joe's Diesel Repair (6316 West Van Buren Street)

On April 8, 2004, HGL issued a letter report to ADEQ for Joe's Diesel Repair, also known as Western Diesel Repair, located at 6316 West Van Buren Street. A July 1989 Phase I report prepared by Kleinfelder, Inc., states that TCE and 1,1,1-TCA had been found in soil at the Joe's Diesel Repair facility. The report recommended the facility for an SI or physical testing, and stated that further activities were planned for Joe's Diesel Repair. These planned activities included sending out a questionnaire and conducting further research of regulatory records. An October 12, 1989, hazardous materials questionnaire completed by the owners of the property where Joe's Diesel Repair had formerly operated indicates that no release had occurred on site. The hazardous materials used on the property were diesel, motor oil, and gasoline [WVDEQI 1701-1705, 10278-10386].

2.3.4 Maximet Corporation (5925 West Monroe Street)

On December 23, 2003, HGL issued a letter report to ADEQ for the Maximet Corporation facility at 5925 West Monroe Street. A toxic release inventory produced on October 2, 2000, indicates that Maximet Corporation released 1,1,1-TCA into the air from 1989 to 1992 [WVDEQI 9861-9865]. Although TCE, 1,1,1-TCA, PCE, 1,1-DCE, and 1,1-DCA were among the chemicals found at a petroleum storage tank farm near Maximet Corporation, a June 4, 1992, report determined that this information was insufficient to attribute contamination in the groundwater to Maximet Corporation and EPA recommended no further remedial action at the facility [WVDEQP 17890-17892].

2.3.5 Petco, Inc. (304 South 67th Avenue)

On March 29, 2004, HGL issued a letter report to ADEQ for Petco, Inc., located at 304 South 67th Avenue. A July 1989 Phase I report prepared by Kleinfelder, Inc., states that TCE and 1,1,1-TCA had been found at the Petco, Inc., facility [WVDEQI 10281-10386]. In a December 18, 1989, ADEQ interoffice memorandum regarding an August 4, 1988, hazardous waste inspection, it was noted that the ADEQ Hazardous Waste Inspection Unit had taken a sample of the sludge and liquid contained in the wash pit at the facility and that it had contained PCE. The amount of PCE detected was determined to be too low to be quantified by the laboratory [WVDEQP 57760].

2.3.6 Salesco Systems USA (5736 and 5752 West Jefferson Street)

On November 22, 2006, HGL issued a letter report to ADEQ for Salesco Systems USA, located at 5736 and 5752 West Jefferson Street, which included documentation found regarding the use and presence of the COCs. According to a January 21, 1992, letter from Edward Nemecek of Harding Lawson Associates to ADEQ, 1,1-DCA, 1,1-DCE, and PCE were detected in sludge samples taken at the 5736 West Jefferson Street facility. A January 28, 1992, record of a telephone conversation between Tom Curry of ADEQ and David Williams of Lockheed Corp., indicates that the "property owner" was under investigation for BTEX contamination in a dry well. On August 8, 1994, ADEQ informed Salesco Systems USA that no further investigations of the 5752 West Jefferson Street property would be initiated under the WQARF program, as ADEQ had not found any evidence of a release or threatened release at the property [WVDEQP 57761-57765].

3.0 INDUSTRIAL SURVEY RESULTS

3.1 CITY OF PHOENIX DIRECTORY RESULTS

In conducting Phoenix city directory research on the 56 address ranges located within the industrial survey boundaries, HGL assigned each of the businesses to a general business category when the appropriate business category could be determined. Under a previous task assignment for ADEQ, HGL identified general business categories associated with the use or generation of WQARF site COCs and other site contaminants.⁸ HGL used this research to eliminate from this industrial survey the companies that were unlikely to have used the WVBA WQARF site COCs or other site contaminants. In total, the business categories that may have used or generated WQARF site COCs or other site contaminants include 670 businesses within the industrial survey boundaries. The business activities of the other 135 businesses could not be readily determined and, as a result, the businesses are also listed in Appendix A.

Appendix A presents the results of the Phoenix city directory research by street address for those facilities suspected of possibly using or generating the WQARF site COCs or other site contaminants, and those facilities for which the business activities could not be readily determined. The tables included in Appendix A list the street address, business name, years of operation, and business type, if known. The business names and years of operation are provided as listed in the Phoenix city directories. Business types were identified based on city directory listings or by business name. If a business type could not be determined, the business type is listed as “undetermined.”

3.2 U.S. ENVIRONMENTAL PROTECTION AGENCY

3.2.1 U.S. Envirofacts Multi-System Queries Database File Results

A search of the EPA Envirofacts Multi-System Queries database identified 11 companies within the industrial survey boundaries that have RCRA identification numbers [WVEPAW 8-25]. Table 3.1 below identifies 9 of the 11 companies.⁹

**Table 3.1
Facilities with RCRA Identification Numbers in Multi-System Queries Database**

Company Name	Company Address	RCRA ID Number
Case Furniture Wholesale	4645 West Polk Street	AZR000043976
Dunn Edwards	520 South 67 th Avenue	AZR000509927
Food Safety Net Services	6215 West Van Buren Street	AZR000504126
Fortis Auto Repair	6425 West Van Buren Street	AZR000003251
Metal Form Manufacturing	5690 West Washington Street	AZE040618002
Outwater Plastics	4720 West Van Buren Street	AZR000506535

⁸ The determination of significant users or generators of WQARF site COCs or other site contaminants is based on HGL’s prior identification of business types that commonly use these substances. This work was conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069.

⁹ RCRA identification numbers were also identified for Maximet Corporation and Salesco Systems USA, both of which have been investigated previously and are listed in Table 2.2 of this industrial survey.

Table 3.1 (concluded)
Facilities with RCRA Identification Numbers in Multi-System Queries Database

Company Name	Company Address	RCRA ID Number
PW Pipe	425 South 67 th Avenue	AZD982035735
Rugby IPD	4703 West Brill Street	AZR000503516
Vinyltech Corporation	201 South 61 st Avenue	AZR000032797

3.2.2 Comprehensive Environmental Response, Compensation, and Liability Act File Results

A search of the EPA CERCLIS database did not identify any CERCLA sites within the industrial survey boundaries.

3.3 ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

3.3.1 Resource Conservation and Recovery Act File Results

A search of ADEQ’s MegaSearch and AZURITE databases identified 33 companies within the industrial survey boundaries and 2 companies located in close proximity to the industrial survey boundaries that have RCRA identification numbers. Table 3.2 below identifies 33 of the 35 companies.¹⁰ However, no RCRA files were found for facilities within the industrial survey boundaries.

Table 3.2
Facilities with RCRA Identification Numbers in MegaSearch and AZURITE Databases

Facility Address	Company Name	RCRA ID Number	Citation
214 North 43 rd Avenue	Hydraulic Controls, Inc.	CESQG	WVHGLC 18563
402 North 44 th Avenue	Huhtamaki Plastics	CESQG	WVHGLC 18484
430 North 47 th Avenue	Dixon Graphics	CESQG	WVHGLC 18559, 18573
620 North 47 th Avenue	USPS-MMOS	CESQG	WVHGLC 18552, 18556
515 North 51 st Avenue	Goodwill Industries of Central Arizona	AZR000510883	WVHGLC 18059
116 North 59 th Avenue	Lorn Technical Coatings, Division of Maximet	AZD990722860	WVHGLC 18034
201 South 61 st Avenue	Vinyltech Corporation	AZR000032797	WVHGLC 18108
125 South 67 th Avenue	CVS Pharmacy Distribution Center	AZR000509711	WVHGLC 18489

CESQG - Conditionally Exempt Small Quantity Generator (generates 100 kilograms or less per month of hazardous waste)

¹⁰ RCRA identification numbers were also identified for Cable Systems International and Dolphin, Inc., both of which have been investigated previously and are listed in Table 2.2 of this industrial survey.

Table 3.2 (concluded)
Facilities with RCRA Identification Numbers in MegaSearch and AZURITE Databases

Facility Address	Company Name	RCRA ID Number	Citation
304 South 67 th Avenue	Powerscreen Southwest	AZD982434375	WVHGLC 18489-18490
425 South 67 th Avenue	Data Packaging Combined Rcs Co*	AZD982035735	WVHGLC 18491
	PW Pipe	AZD982035735	WVEPAW 21
4703 West Brill Street	Charles M Schayer, Inc.	AZE010417002	WVHGLC 18125
	Rugby IPD Corp	AZR000503516	WVHGLC 18125
4335 West McDowell Road	Autozone	CESQG	WVHGLC 18458, 18474
4625 West McDowell Road	Palo Verde Cabinet Company, Inc.	CESQG	WVHGLC 18471-18472
4645 West McDowell Road	Mirachem Corporation	CESQG	WVHGLC 18460, 18473
5925 West Monroe Street	Metal Form Manufacturing	AZE040618002	WVHGLC 18218
6025 West Monroe Street	Collegeville Imagineering	AZD983473968	WVHGLC 18220
4441 West Polk Street	Time Index	CESQG	WVHGLC 18248
4645 West Polk Street	Case Furniture Wholesale	AZR000043976	WVHGLC 18249
4741 West Polk Street	Chris Fischer Productions, Inc.	AZ0000359463	WVHGLC 18249
4411 West Roosevelt Street	RJB Warehouse Phase II	AZE050303001	WVHGLC 18303
4804 West Roosevelt Street	G&K Services	AZR000037218	WVHGLC 18252
4720 West Van Buren Street	Home Depot USA	AZR000503227	WVHGLC 18409
	Outwater Plastics, Inc.	AZR000506535	WVHGLC 18409
6215 West Van Buren Street	Food Safety Net Services –Arizona, LLC	AZR000504126	WVHGLC 18366
6425 West Van Buren Street	Fortis Auto Repair	AZR000003251	WVHGLC 18369
7024 West Van Buren Street	United Rentals*	CESQG	WVHGLC 18370, 18374
5711 West Washington Street	Salesco Systems	AZD982435414	WVHGLC 18327
5717 West Washington Street	Mar Bro Manufacturing, Inc.	AZD982461048	WVHGLC 18327
5960 West Washington Street	Metal Form Manufacturing	AZE040618002	WVHGLC 18330
6104 West Washington Street	Super Valu	AZR000505040	WVHGLC 18334
6111 West Washington Street	Supervalu Logistics	CESQG	WVHGLC 18334, 18344

*This facility falls outside the boundaries of the industrial survey.

CESQG - Conditionally Exempt Small Quantity Generator (generates 100 kilograms or less per month of hazardous waste)

Additionally, the ADEQ RCRA open and closed case and RCRA compliance log finding aids did not include any files on facilities within the industrial survey boundaries.

3.3.2 Preliminary Assessment/Site Inspection File Results

PA/SI files were identified for two facilities within the industrial survey boundaries: AT&T Technologies, 505 North 51st Avenue; and Maximet Corporation, 5925 West Monroe Street. File results for AT&T Technologies and Maximet Corporation are excluded from this report because the facilities were investigated previously. See Section 2.3 for a summary of information found on these facilities and previously presented to ADEQ in letter reports.

3.3.3 Underground Storage Tank/Leaking Underground Storage Tank Files Results

A search of the ADEQ MegaSearch, AZURITE, and online UST and LUST databases identified UST and LUST files for 28 facilities, 24 located within the industrial survey boundaries and 4 located near, but outside of the industrial survey boundaries. Table 3.3 identifies the facilities that had USTs and LUSTs and includes the size of each tank. Figure 3.1 is a map of the UST and LUST facilities within or near the industrial survey boundaries. Companies with positive results for WQARF site COCs or other site contaminants are described in more detail in Sections 3.3.3.1 to 3.3.3.4 below. Additionally, Section 3.3.3.5 discusses a company for which soil sampling results were not found in the file.

**Table 3.3
Facilities with USTs and/or LUSTs**

Owner and/or Operator	Location	Size (gallons)	Date of Installation	Date of Removal	Contents	Source
7-Eleven, Inc. (7-Eleven); 7-Eleven No. 22631; Southland 7-Eleven; Southland Corporation*	5050 West McDowell Road	Tanks 1-4: 12,000	1980 ¹	04/25/2000	Tanks 1-3: Gasoline; Tank 4: Diesel ²	WVDEQP 43565, 43570, 43593
Aim Nationalease; McDowell Douglas Truck Services, Inc.; Sharon Leasing, Inc. dba Refrigerated Nationalease	5926 West Monroe Street	Tank 1: 10,000	10/28/1989	N/A	Diesel	WVDEQP 42949
Banner Construction Company, Inc.; Banner Plumbing, Inc.	6805 West Van Buren Street	Tank 1: 1,000; Tank 2: 500 ³	1986 ⁴	03/15/1995	Tank 1: Gasoline; Tank 2: Diesel	WVDEQP 43018-43020
Central Transport International, Inc.; Crown Enterprises, Inc.; GI Trucking	5939 West Washington Street	Tanks 1-3: 12,000 ⁵	Tanks 1 and 2: 1979; Tank 3: May or June 1998	Tanks 1 and 2: 05/1998	Diesel	WVDEQP 43675, 43682, 43703, 43712, 43759, 43765

*These facilities are located outside of the industrial survey boundaries.

¹ Another source document indicates that the year of installation was 1978 [WVDEQP 43276].

² Another source document indicates that Tank 4 reportedly contained gasoline instead of diesel [WVDEQP 43591].

³ Another source document reported that Tank 1 had a 500-gallon capacity and Tank 2 had a 1,000-gallon capacity. A different source document reported that Tanks 1 and 2 each had a capacity of 1,000 gallons [WVDEQP 43025-43028].

⁴ Other source documents indicate that both tanks were installed in 1977, 1984, 1985, or 1986. The 1986 date of installation was reported in the most recent document [WVDEQP 43018-43020, 43023, 43025, 43027].

⁵ Another source document indicates that Tanks 1 and 2 had 10,000-gallon capacities and that the tanks were installed in the 1980s [WVDEQP 43709].

dba - doing business as

N/A - None Available

Table 3.3 (concluded)
Facilities with USTs and/or LUSTs

Owner and/or Operator	Location	Size (gallons)	Date of Installation	Date of Removal	Contents	Source
Circle K Corporation; Circle K Stores, Inc. (Circle K) No. 0608	6440 West Van Buren Street	Tanks 1-2: 10,000; Tank 3: 6,000 ⁶	04/1974	N/A	Gasoline	WVDEQP 43330, 43409, 43411
Crane & Hayes Trucking	440 South 67 th Avenue	Tanks 1-3: 4,000; Tank 4: 3,000	N/A	~ 1989 ⁷	4,000-gallon tanks: Gasoline; 3,000 gallon-tank: Diesel	WVDEQP 43689-43692
Fry's Food Stores of Arizona, Inc. (Fry's); Kroger Company (Kroger)	6101 West Washington Street	Tanks 1 and 2: 10,000; Tank 3: 12,000; Tank 4: 550	06/1975	10/19/1999	Tanks 1-3: Diesel; Tank 4: Waste Oil	WVDEQP 42911, 42923- 42926, 42932
JA's Arco AM/PM; Three J's 43 rd & Roosevelt, LLC	935 North 43 rd Avenue	Tank 1: 20,000; Tank 2: 12,000; Tank 3: 10,000	04/15/2010	N/A	Tanks 1 and 2: Gasoline; Tank 3: Diesel	WVDEQP 43050
KAG West, LLC; Beneto Bulk Transport; ⁸ Beneto Tank Lines, Inc.	6035 West Washington Street	Tank 1: 10,000; Tank 2: 1,000	Tank 1: 09/1986; Tank 2: 01/1987	Tank 2: 1999	Tank 1: Diesel; Tank 2: Used Oil	WVDEQP 42591, 42667, 42674
Madera Component Systems, Inc.	6323 West Van Buren Street	Tanks 1-2: 3,000	1980s	11/25/1998	Tank 1: Diesel; Tank 2: Gasoline	WVDEQP 42812, 42822
QuickTrip Corporation; QuickTrip No. 444TC	1155 North 51 st Avenue	Tanks 1-3: 20,000	08/12/2005	N/A	Diesel	WVDEQP 42770
Ray Hoopes Concrete Company	224 North 59 th Avenue	Tanks 1-2: 2,000	Tank 1: 1977; Tank 2: 1979	09/25/1991	Tank 1: Gasoline; Tank 2: Diesel	WVDEQP 42972, 42983
Southwest Freeport/The RREEF Funds; Leaseway Distribution Centers, Inc.	431 North 47 th Avenue	Tanks 1-2: 10,000	1986	10/14/1992	Diesel	WVDEQP 42962-42963

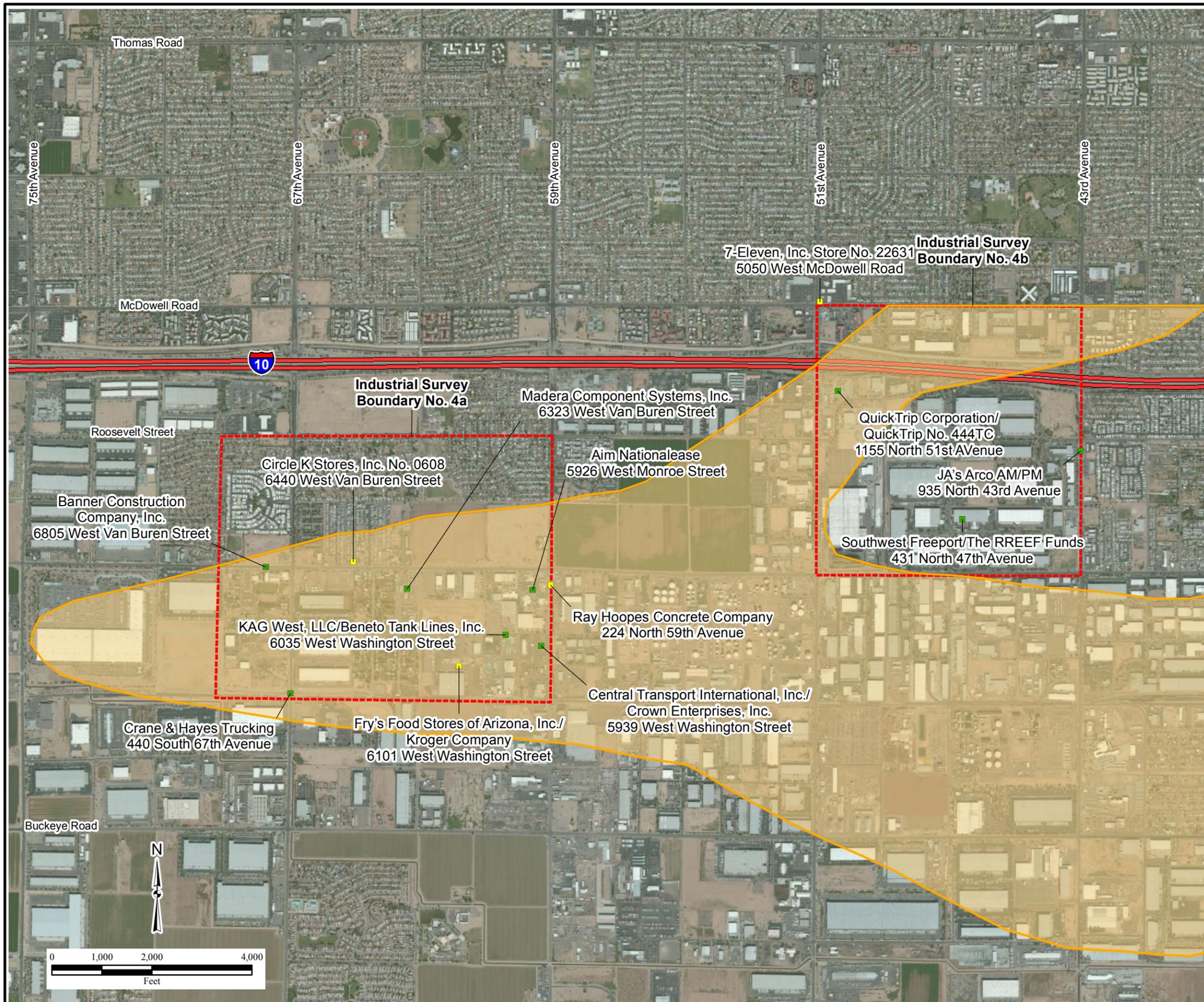
⁶According to an ADEQ/City of Phoenix Fire Department on-site UST closure report, Tank 1 had a capacity of 6,000 gallons and Tank 3 had a capacity of 10,000 gallons [WVDEQP 43330].

⁷ A July 12, 1991, letter to ADEQ indicates that all storage tanks remaining at the facility are above ground [WVDEQP 43692].

⁸ Some documentation spelled Beneto as "Benito."

N/A - None Available

Figure 3.1
Facilities with USTs and/or LUSTs



Legend

- UST Facility
- LUST Facility
- Interstate
- - - Industrial Survey Boundary
- Estimated Groundwater Plume Area, September 2013

Notes:
LUST=Leaking Underground Storage Tank
UST=Underground Storage Tank

\\Gst-srv-01\hglgis\West_Van_Buren\MSI\AIS\
(3-01)LUST_UST_Facilities.mxd
2/27/2014 RB
Source: ADEQ, ESRI ArcGIS Online Aerial Imagery

3.3.3.1 7-Eleven, Inc. Store No. 22631 (5050 West McDowell Road)

7-Eleven Store No. 22631, located at 5050 West McDowell Road, installed three 12,000-gallon gasoline USTs and one 12,000-gallon diesel UST in 1978. These tanks were subsequently decommissioned and excavated on April 25, 2000 [WVDEQP 43276, 43565, 43593].^{11,12} Results from a November 11, 1993, soil sampling event confirmed the suspected release of unleaded gasoline near a fuel delivery line at the facility [WVDEQP 43276]. Detections above groundwater protection levels (GPLs) and/or soil remediation levels (SRLs) from the 1993 soil sampling event are provided in Table 3.4 below.

From April 5 through 9, 1999, IT Corporation drilled four soil borings at the 5050 West McDowell Road facility on behalf of 7-Eleven.¹³ Soil samples collected from the soil borings were analyzed for total petroleum hydrocarbons (TPH) and BTEX. Table 3.4 below includes concentrations for TPH and BTEX in samples collected from soil borings at the facility in 1993, 1997, 1999, and 2008.¹⁴

**Table 3.4
Soil Sampling Data Ranges for TPH and BTEX, 1993, 1997, 1999, and 2008**

Year	TPH	BTEX				Source
		Benzene	Toluene	Ethylbenzene	Total Xylenes	
GPL	NE	0.70	159	82	31	GDDEQW 40
SRL	NE	1.4	400	650	420	GDDEQW 14, 20, 27, 29
1993	770* and 3,900*	2.9*	ND	ND	230*	WVDEQP 43290
1997	22 at 70 feet to 7,300 at 30 feet	1.1 at 100 feet to 130 at 30 feet	310 at 40 feet and 1,300 at 30 feet	91 at 40 feet and 380 at 30 feet	100 at 50 feet to 2,100 at 30 feet	WVDEQP 43289-43290
1999	21 at 70 feet to 2,100 at 40 feet	0.74 at 90 feet to 35 at 30 feet	180 at 40 feet and 680 at 30 feet	270 at 30 feet	140 at 50 feet to 1,600 at 30 feet	WVDEQP 43287-43289
2008	NA	1.2 at 50 feet to 6.8 at 40 feet	400 at 30 feet to 3,400 at 30 feet	140 at 40 feet to 950 at 30 feet	160 at 50 feet to 8,600 at 30 feet	WVDEQP 43181

All concentrations are reported in milligrams per kilogram (mg/kg).

*Soil sample was collected at an unknown depth.

NA - Not Analyzed

ND - Not Detected above GPLs and/or SRLs

NE - Not Established

¹¹ This facility is located outside of Industrial Survey Boundary No. 4b.

¹² Another source document indicates that the year of installation was 1980 [WVDEQP 43570].

¹³ Figure 2 of an IT Corporation report dated February 24, 2000, and Figure 2 of a Stantec report dated August 23, 2012, show the location of the soil borings [WVDEQP 43284].

¹⁴ All concentration ranges are provided for TPH because GPLs and SRLs have not been established. Only concentrations above GPLs and SRLs are provided for BTEX.

Since petroleum hydrocarbons were encountered in soil samples collected from April 5 to April 9, 1999, a groundwater monitoring well was installed on April 9, 1999, and was sampled on April 22, 1999. Analytical results from this sampling indicate that the sample contained concentrations of benzene and TCE above applicable Aquifer Water Quality Standard (AWQS) limits at 342 micrograms per liter ($\mu\text{g/L}$) and 10 $\mu\text{g/L}$, respectively.¹⁵ A second sampling conducted on May 27, 1999, to confirm these results identified benzene at a concentration of 961 $\mu\text{g/L}$ and toluene at a concentration of 1,960 $\mu\text{g/L}$.¹⁶ Three more groundwater monitoring wells were installed at the facility from November 8 through 11, 1999. On December 9, 1999, all four groundwater monitoring wells were sampled. Benzene was detected above the AWQS limit of 5 $\mu\text{g/L}$ at concentrations ranging from 32 $\mu\text{g/L}$ to 520 $\mu\text{g/L}$. Toluene was detected at a concentration of 1,000 $\mu\text{g/L}$, which is equivalent to its respective AWQS limit. Ethylbenzene and xylenes were not detected above AWQS limits, and the samples were not analyzed for other analytes [WVDEQP 43154, 43279-43281, 43285-43286].

In 2011, soil samples were collected from one of the monitoring wells. The samples were not analyzed for TPH. Benzene was detected at a concentration as high as 4.27 milligrams per kilogram (mg/kg) at a depth of 50 feet, toluene was detected at a concentration as high as 709 mg/kg at a depth of 50 feet, ethylbenzene was detected at a concentration as high as 303 mg/kg at a depth of 50 feet, and total xylenes was detected at a concentration as high as 1,850 mg/kg at a depth of 50 feet [WVDEQP 43180-43182].¹⁷

Groundwater sampling was conducted at the 7-Eleven facility from 2000 to 2013. Table 3.5 below includes concentration ranges above the AWQS limits for BTEX in groundwater samples collected at the facility, and identifies the wells with which those ranges are associated. A figure depicting the locations of these wells is included as Figure 3.2.

¹⁵ The AWQS limits for benzene and TCE is 5 $\mu\text{g/L}$ [GDASOS 10, 12].

¹⁶ The AWQS limits for benzene and toluene are 5 $\mu\text{g/L}$ and 1,000 $\mu\text{g/L}$, respectively [GDASOS 10, 12].

¹⁷ In 1996, ADEQ developed GPLs, which are soil cleanup levels protective of groundwater quality [GDDEQW 1, 4]. ADEQ revised the GPLs in 2007. The following are minimum GPLs for contaminants detected in soil at the facility: benzene (0.70 mg/kg), toluene (159 mg/kg), ethylbenzene (82 mg/kg), and total xylenes (31 mg/kg) [GDDEQW 40]. The following are nonresidential SRLs for COCs detected in soil at the facility: benzene (1.4 mg/kg), toluene (650 mg/kg), ethylbenzene (400 mg/kg), and total xylenes (420 mg/kg) [GDDEQW 14, 20, 27, 29].

**Table 3.5
Groundwater Sampling Data for BTEX, 2000-2013**

Year	BTEX				Source
	Benzene	Toluene	Ethylbenzene	Total Xylenes	
AWQS Limits	5	1,000	700	10,000	WVDEQP 43472, GDASOS 10-12
2000	44 in MW-4 to 1,000 in MW-1	1,000 in MW-2 to 1,600 in MW-1	ND	ND	WVDEQP 43299-43302
2001	7.9 in MW-1 to 180 in MW-4	ND	ND	ND	WVDEQP 43266
2002	75 in MW-4 to 2,200 in MW-3	ND	ND	ND	WVDEQP 43266
2003	10 in MW-4 to 2,300 in MW-2	1,900 in MW-2	870 in MW-2	ND	WVDEQP 43223-43225, 43157
2004	8.8 in MW-7	ND	ND	ND	WVDEQP 43309-43310
2005	ND	ND	ND	ND	WVDEQP 43577-43578
2006	16	ND	ND	ND	WVDEQP 43346-43347
2007	ND	ND	ND	ND	WVDEQP 43338
2008	ND	ND	ND	ND	WVDEQP 43324, 43328-43329
2009	ND	ND	ND	ND	WVDEQP 43238
2010	ND	ND	ND	ND	WVDEQP 43252
2011	10* in MW-7	ND	ND	ND	WVDEQP 43178-43179
2012	20* in MW-7 and 39 in MW-1A	ND	ND	ND	WVDEQP 43154-43159, 57556-57759
2013	ND	ND	ND	ND	WVDEQP 57462-57555

All concentrations are reported in µg/L.

*Concentration is provided with a less than symbol (<). It is not known if the detection was above the AWQS limit.

ND - Not Detected above the AWQS limit

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Figure 3.2
7-Eleven, Inc. Store No. 22631
Monitoring Wells

Legend

- Facility of Interest
- ⊕ Well
- MW-1 Well Identification
- - - - Industrial Survey Boundary



\\Gst-srv-01\hglgis\West_Van_Buren_MSIW\IS\
(3-02)7eleven_Wells.mxd
2/27/2014 RB
Source: ADEQ, ESRI ArcGIS Online Aerial Imagery

3.3.3.2 Circle K Stores, Inc. No. 0608 (6440 West Van Buren Street)

Circle K Store No. 0608, located at 6440 West Van Buren Street, installed two 10,000-gallon gasoline USTs and one 6,000-gallon gasoline UST on April 4, 1974 [WVDEQP 43409]. According to an October 1993 Phase II Subsurface Assessment, a release from a premium unleaded product line near the east pump island was reported on December 4, 1992, and the system was subsequently “taken out of service.” The two remaining UST systems were “taken out of service” in July 1993 [WVDEQP 43362].¹⁸

Results from soil sampling conducted in 1993 indicated benzene concentrations of 29 to 440 micrograms per kilogram ($\mu\text{g}/\text{kg}$), toluene concentrations of 32 to 77,000 $\mu\text{g}/\text{kg}$, ethylbenzene concentrations of 42 to 53,000 $\mu\text{g}/\text{kg}$, total xylenes concentrations of 45 to 370,000 $\mu\text{g}/\text{kg}$, and TPH concentrations of 80,000 to 1,500,000 $\mu\text{g}/\text{kg}$ [WVDEQP 43370-43371].¹⁹

Groundwater sampling was conducted at the Circle K Store No. 0608 from 1998 to 2000.²⁰ Table 3.6 below includes concentration ranges above GPLs and SRLs for volatile organic compounds (VOCs) and BTEX in groundwater samples collected at the facility, and identifies the wells with which those ranges are associated. A figure depicting the location of these wells is included as Figure 3.3.

¹⁸ It is not clear whether the tanks were removed or left in place, but no longer used.

¹⁹ The following are minimum GPLs for COCs detected in soil at the facility: benzene (700 $\mu\text{g}/\text{kg}$), toluene (159,000 $\mu\text{g}/\text{kg}$), ethylbenzene (82,000 $\mu\text{g}/\text{kg}$), and total xylenes (31,000 $\mu\text{g}/\text{kg}$) [GDDEQW 40]. The following are nonresidential SRLs for COCs detected in soil at the facility: benzene (1,400 $\mu\text{g}/\text{kg}$), toluene (650,000 $\mu\text{g}/\text{kg}$), ethylbenzene (400,000 $\mu\text{g}/\text{kg}$), and total xylenes (420,000 $\mu\text{g}/\text{kg}$) [GDDEQW 14, 20, 27, 29]. There are no established GPLs or SRLs for TPH.

²⁰ Groundwater samples were not collected in 1999.

Table 3.6
Groundwater Sampling Data for VOCs and BTEX, 1993-1998 and 2000

Year	VOCs				BTEX				Source
	PCE	TCE	1,1-DCE	cis-1,2-DCE	Benzene	Toluene	Ethylbenzene	Total Xylenes	
AWQS Limit	5	5	7	70	5	1,000	700	10,000	WVDEQP 43472, GDASOS 10-12
1993	5.1*	11 to 15*	NA	ND	5.1 in MW-3 to 380 in PW-2	ND	ND	ND	WVDEQP 43365, 43372
1994	5.2 in MW-5 to 6.0 in MW-3	9.8 in PW-1 to 13 in MW-2 and MW-3	NA	ND	11 in PW-1 to 690 in PW-2	ND	ND	ND	WVDEQP 43472
1995	5.5 in MW-4 and MW-8 to 8.8 in MW-3	5.1 in MW-10 to 15 in MW-3 and MW-5	ND	ND	5.6 in MW-8 to 12,000 in MW-1	2,100 in MW-1	810 in MW-1	ND	WVDEQP 42599, 43445, 43486, 43498
1996	5 in MW-7 and MW-9 to 9.7 in MW-1	6.2 in MW-8 to 14 in MW-1 and MW-3	ND	ND	9.4 in MW-5 to 11,000 in MW-1	1,200 in MW-1	1,400 in MW-1	ND	WVDEQP 43397, 43431, 43518, 43561
1997	5.5 in MW-6 to 60 in MW-1	6.1 in MW-4 to 16 in MW-3 and PW-1	ND	ND	140 in MW-1 to 1,800 in MW-1	ND	ND	ND	WVDEQP 42625-42627, 42651-42653
1998	NA	NA	NA	NA	27 in MW-1	ND	ND	ND	WVDEQP 43464-43466
2000	NA	6.6 in PW-2 to 9.2 in PW-1	NA	NA	ND	ND	ND	ND	WVDEQP 43521, 43540-43542

All concentrations are reported in $\mu\text{g/L}$.

*The copy of the source document in HGL's files does not contain laboratory reports and, as a result, the specific wells for the given results could not be confirmed; however, the results presented are from wells MW-1 through MW-5 [WVDEQP 43365].

NA - Not Analyzed

ND - Not Detected above the AWQS limit

Figure 3.3
Circle K Stores, Inc. No. 0608
Monitoring Wells

Legend

-  Facility of Interest
-  Well
- MW-1 Well Identification



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(3-03)CircleK_Wells.mxd
2/27/2014 RB
Source: ADEQ, ESRI ArcGIS Online Aerial Imagery

3.3.3.3 Fry's Food Stores of Arizona, Inc./Kroger Company (6101 West Washington Street)

Fry's/Kroger, located at 6101 West Washington Street, installed two 10,000-gallon diesel USTs, one 12,000-gallon diesel UST, and one 550-gallon waste oil UST in June 1975 [WVDEQP 42911, 42923, 42932]. All four USTs were decommissioned and removed on October 19, 1999 [WVDEQP 42926]. According to a November 1999 ADEQ notification of USTs form, Tank 2, a 10,000-gallon diesel UST, had evidence of a leak [WVDEQP 42926]. Soil sampling results analyzed on November 8, 2000, defined the extent of soil contamination to a depth of 20 feet below ground surface [WVDEQP 42876].

Results from groundwater sampling taken on June 27, 2001, indicated concentrations of PCE exceeding the AWQS limit of 5 µg/L with a concentration of 18 µg/L [WVDEQP 42881]. On June 19, 2007, ADEQ approved closure of the 10,000-gallon diesel fuel UST and diesel fuel dispenser island, citing COC concentrations below applicable AWQS limits for groundwater and SRLs for soil [WVDEQP 42876-42877].

3.3.3.4 KAG West, LLC/Beneto Tank Lines, Inc. (6035 West Washington Street)

KAG West, LLC/Beneto Tank Lines, Inc., located at 6035 West Washington Street, installed one 10,000-gallon diesel UST in September 1986 and one 1,000-gallon used oil UST in January 1987 [WVDEQP 42591, 42674]. In 1999, the 1,000-gallon used oil UST was decommissioned and removed [WVDEQP 42667]. Soil sampling was conducted in February 1999. There were no detections of benzene, 1,1-DCE, *cis*-1,2-DCE, TCE, PCE, or 1,1,1-TCA in the soil samples. Additionally, soil sample results were below GPLs and SRLs for toluene, xylenes, and ethylbenzene [GDDEQW 10-12, 13-29; WVDEQP 42696-42713].²¹

3.3.3.5 Southwest Freeport/The RREEF Funds (431 North 47th Avenue)

Southwest Freeport/The RREEF Funds, located at 431 North 47th Avenue, installed two 10,000-gallon diesel USTs in 1986 and subsequently decommissioned and removed both tanks on October 14, 1992 [WVDEQP 42962-42963]. Comments on the 1992 notification of USTs form indicate that test results of soil samples taken from the surface of the excavation areas indicated that the USTs and fuel lines had not leaked. However, analysis of a soil sample taken on an unknown date from beneath the fuel dispenser indicated that the dispenser had had a release of diesel fuel [WVDEQP 42965].²² No other documentation indicating a release exists in the files.

²¹ It is unclear if soil sampling was conducted prior to or after UST removal [WVDEQP 42667].

²² Results of the soil sampling events were not found in the file.

3.3.4 Registered Dry Well File Results

A search of the ADEQ MegaSearch and AZURITE databases identified 36 facilities within the industrial survey boundaries with registered dry wells. Table 3.7 below identifies these facilities, which are discussed in more detail in Sections 3.3.4.1 to 3.3.4.25 below.²³

**Table 3.7
Facilities with Registered Dry Wells**

Facility Name	Facility Address	Number of Dry Wells
Auto Shack	4741 West Polk Street	6
B&R Building	125 West 67 th Avenue	4
Beneto Tank Lines, Inc.	6045 West Washington Street	1
City of Phoenix	69 th Avenue from Farmer Road to West Van Buren Street	1
D.S.O. Leasing	125 North 61 st Avenue	1
First Commons	4537 West McDowell Road	1
G&K Services, Inc.	4804 West Roosevelt Street	1
G.I. Trucking	5939 West Washington Street	3
Goodyear Building	4501 West Polk Street	2
Imagineering/Creative Images, Inc.	6025 West Van Buren Street	2
Office/Warehouse		3
Ingram Paper Co.	430 North 47 th Avenue	3
Mack Papago Warehouse, Lot 3	844 North 44 th Avenue	3
Unisource Worldwide		6
Metal Form Manufacturing	5960 West Washington Street	2
Multi-Tenant Commercial Center	402 North 44 th Avenue	4
Papago Distribution Center	620 North 47 th Avenue	3
USPS Phoenix PMPPC		1
Papago Industrial Park	302 North 45 th Avenue	2
Papago West	43 rd Avenue and Roosevelt Street	4
RJB Development Phase III	4405 West Roosevelt Street	6
RJB Warehouse Phase III	4411 West Roosevelt Street	5
Sharon Stair System	6029 West Washington Street	1
Smart & Final	1450 North 43 rd Avenue	1
Southwest Freeport Warehouse	431 North 47 th Avenue	1
Southwest Regional Council of Carpenters	45 th Avenue and McDowell Road	1
ValWest Technologies, Inc.	430 North 47 th Avenue	6
Warehouse Facility	4801 West Polk Street	9

3.3.4.1 Auto Shack (4741 West Polk Street)

Auto Shack filed a registration form for six stormwater dry wells on October 5, 1988. The dry wells received registration numbers 07-002149-03 through 07-002154-03. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, landscaped areas, and loading docks.²⁴ Auto Shack stated that no liquids, solvents, or other

²³ Registered dry wells were also identified for Belden – 51st Avenue Distribution Center, which was investigated previously and is listed in Table 2.2 of this industrial survey.

²⁴ The owner is listed as Investment Properties Division, LDS Church [WVDEQP 50150].

chemicals were used or stored at its facility. Dry Wells 1 through 3 were completed on September 19, 1988, and Dry Wells 4 through 6 were completed in approximately 1983. The nature of the business was listed as warehouse [WVDEQP 50150-50154].

3.3.4.2 B&R Building (125 North 67th Avenue)

B&R Building filed a registration form for four industrial and stormwater dry wells on October 8, 2001. The dry wells received registration numbers 07-22647-03 through 07-22650-

03. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, and loading docks not containing hazardous materials. The nature of the business was listed as general warehouse [WVDEQP 50155-50156].

3.3.4.3 Beneto Tank Lines, Inc. (6045 West Washington Street)

Beneto Tank Lines, Inc. filed a registration form for one industrial and stormwater dry well on May 13, 1998.²⁵ The dry well received registration number 07-15878-10. According to the dry well registration form, the purpose of the dry well was to drain driveways, parking lots, rooftops, streets, and loading docks for general use and for the transport of hazardous substances. The nature of the business was listed as warehouse, vehicular and service facilities, with Standard Industrial Classifications (SIC) codes 4226 and 4231 [WVDEQP 50292-50294].²⁶

Beneto Tank Lines, Inc., filed an aquifer protection permit determination of applicability for one industrial and stormwater dry well on September 5, 1998. According to the form, facility operations included fuel storage greater than 55 gallons and truck or car washing. Beneto Tank Lines, Inc., stated that the dry well did not drain any areas where hazardous substances were used, stored, loaded, or treated, nor did the dry well receive unauthorized discharges. Construction of the dry well was completed on May 13, 1998 [WVDEQP 50277-50280].

3.3.4.4 City of Phoenix (69th Avenue from Farmer Road to West Van Buren Street)

The City of Phoenix filed a registration form for one industrial and stormwater dry well on November 5, 1998. The dry well received registration number 07-16930-10. The nature of the business was listed as public right-of-way [WVDEQP 49810-49811].

3.3.4.5 D.S.O. Leasing (125 North 61st Avenue)

D.S.O. Leasing filed a registration form for one industrial and stormwater dry well on December 3, 2002. The dry well received registration number 07-26075-02. According to the

²⁵ The owner is listed as Steve Beneto [WVDEQP 50292].

²⁶ The SIC system was designed to classify establishments by their primary type of activity. The SIC was first implemented in 1938 and was replaced by the North American Industry Classification System in 1997 [WVINET 1516]. SIC code 4226 was used for establishments primarily engaged in warehousing and storage of special products not elsewhere classified, such as household goods, automobiles, furs, whiskey, and goods at foreign trade zones [WVINET 1514]. SIC code 4231 was used for establishments primarily engaged in the operation of terminal facilities used by highway-type property carrying vehicles [WVINET 1515, 1587-1588].

dry well registration form, the purpose of the dry well was to drain driveways and parking lots. The nature of the business was listed as general non-chemical handling warehouse [WVDEQP 50546-50548].

3.3.4.6 First Commons (4537 West McDowell Road)

First Commons filed a registration form for one industrial and stormwater dry well on January 1, 2000.²⁷ The dry well received registration number 07-19015-02. According to the dry well registration form, the purpose of the dry well was to drain driveways, parking lots, rooftops, streets, landscaped areas, and general use loading docks. The nature of the business was listed as offices and retail only [WVDEQP 50317-50320].

3.3.4.7 G&K Services, Inc. (4804 West Roosevelt Street)

On March 4, 2001, G&K Services, Inc. filed a notice of intent (NOI) to discharge for a Type 2 general permit form. G&K Services, Inc., applied for a Type 2.01 permit, which includes dry wells that drain areas where hazardous substances are used, stored, loaded, or treated. The dry well received inventory number 106248, licensing time frame number 53965, and registration number 13297. The dry well was installed in 1996. Per permit requirements, it was installed 100 feet or more away from a water supply well and 20 feet or more from a UST [WVDEQP 50324-50328]. Also per permit requirements, the “grate or manhole cover” of the dry well was marked “Stormwater Only” [WVDEQP 50325-50326].

Results from an April 14, 2009, soil sampling event detected chromium at concentrations of up to 31 mg/kg in DW-1-35, below the GPL of 590 mg/kg. Other WQARF site COCs were not detected above the minimum laboratory detection limits [WVDEQP 55879-55883].

According to a December 9, 2010, final summary report of findings prepared by URS, there were indications that the well had received discharges other than stormwater. However, according to the 2011 NOI supplement for a Type 2.01 general permit, the dry well was not receiving discharges other than stormwater [WVDEQP 50322-50345]. G&K Services, Inc., noted on the NOI supplement that no SRLs or GPLs had been exceeded in sampling results [WVDEQP 50324, 50326, 50338-50339].

On November 16, 2011, G&K Services, Inc., filed an NOI to discharge relating to a dry well located at the 4804 West Roosevelt Street facility. According to the form, the dry well met all the requirements for the permit [WVDEQP 55842, 55844].

3.3.4.8 G.I. Trucking (5939 West Washington Street)

G.I. Trucking filed a registration form for three dry wells on December 16, 1993. The dry wells received registration numbers 07-008993-08 through 07-008995-08. According to the dry well registration form, the purpose of all three dry wells was to drain driveways, parking lots, and rooftops. Dry Well 1 also was used to drain a chemical fuel storage and vehicular servicing area. Dry Well 2 also was used to drain a vehicular servicing area. G.I. Trucking

²⁷ The owner is listed as First Industrial Development Services [WVDEQP 50317].

stated on the registration form that diesel fuel and motor oil were being used or stored at its facility. The nature of the business was listed as warehouse, chemical and fuel storage, and vehicular service [WVDEQP 50346-50351].

3.3.4.9 Goodyear Building (4501 West Polk Street)

The Globe Corporation, the owner of the Goodyear Building, filed a registration form for two stormwater dry wells on the property on March 5, 1990. The dry wells received registration numbers 07-003524-03 through 07-003525-03. According to the dry well registration form, the dry wells were to drain driveways, parking lots, rooftops, and loading docks. The form indicates that that no liquids, solvents, or other chemicals were being used or stored at the warehouse facility. Construction of the dry wells was completed in September 1984, prior to the Globe Corporation's purchase of the Goodyear Building property on February 9, 1990 [WVDEQP 50353-50356].

3.3.4.10 Imagineering/Creative Images, Inc./Office/Warehouse (6025 West Van Buren Street)

Imagineering/Creative Images, Inc., filed a registration form for two dry wells on June 25, 1990.²⁸ The dry wells received registration numbers 07-003695-04 through 07-003696-04. According to the dry well registration form, the purpose of both dry wells was to drain driveways, parking lots, and streets. Dry Well 1 also was used to drain loading docks. Construction of the dry wells was completed in 1986. Imagineering/Creative Images, Inc., stated that no liquids, solvents, or other chemicals were used or stored at its facility. The nature of the business was listed as warehouse and manufacturing [WVDEQP 50357-50360].

On April 16, 1997, Samuel J. and Maxine M. Jones filed a registration form for three additional stormwater dry wells at the property identified as an "office/warehouse."²⁹ The dry wells received registration numbers 07-013801-03 through 07-13803-03. According to the dry well registration form, the purpose of the three dry wells was to drain driveways, parking lots, rooftops, and streets. Dry Wells 1 and 2 also were used to drain landscaped areas and Dry Well 3 also was used to drain general use loading docks. The nature of the business was listed as warehouse [WVDEQP 50429-50431].

3.3.4.11 Ingram Paper Co. (430 North 47th Avenue)

Ingram Paper Co. filed a registration form for three dry wells on June 14, 1988. The dry wells received registration numbers 07-001734-04 through 0701736-04. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, rooftops, and streets. Dry Well 3 also was used to drain landscaped areas. The nature of the business was listed as warehouse and manufacturing [WVDEQP 50361-50363].

²⁸ The owner is listed as Sum Equities [WVDEQP 50357].

²⁹ According to the April 4, 1997, Phase I report attached to the registration form, the tenant at the facility was in the process of vacating the property and removing all equipment and manufacturing material. The report does not provide the name of the tenant [WVDEQP 50432-50433].

3.3.4.12 Mack Papago Warehouse, Lot 3/Unisource Worldwide (844 North 44th Avenue)

Mack Papago Warehouse, Lot 3, filed an aquifer protection permit determination of applicability for dry wells on April 2, 1997. According to the form, the facility was vacant at the time. The nature of the business was listed as warehouse. Facility operations were not further described, but the form states that dry wells would not be used for the storage, loading, or treatment of hazardous substances [WVDEQP 50370-50373].

Mack Papago Warehouse, Lot 3, filed a dry well registration form for two stormwater dry wells on January 28, 1998.³⁰ The dry wells received registration numbers 07-15337-03 through 07-15338-03 [WVDEQP 50364-50365]. Mack Papago Warehouse, Lot 3, filed an additional dry well registration form for a third stormwater dry well on March 5, 1998 [WVDEQP 50366-50367]. According to the dry well registration forms, the purpose of the dry wells was to drain driveways, parking lots, rooftops, streets, and landscaped areas. The nature of the business was listed as warehouse [WVDEQP 50364-50369].

On December 11, 1998, at this same address, Unisource Worldwide filed a dry well registration form for six stormwater dry wells.³¹ The dry wells received registration numbers 07-17069-10 through 07-17074-10. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, and rooftops. The nature of the business was listed as general warehouse, office, and distribution [WVDEQP 50554-50555].

3.3.4.13 Metal Form Manufacturing (5960 West Washington Street)

Metal Form Manufacturing filed a registration form for two dry wells on September 2, 1992.³² The dry wells received registration numbers 07-006877-04 and 07-006878-04. According to the dry well registration form, the purpose of Dry Well 1 was to drain driveways, parking lots, and loading docks. The purpose of Dry Well 2 was to drain rooftops and landscaped areas. Construction of the dry wells was completed on November 25 and 26, 1991. The nature of the business was listed as manufacturing [WVDEQP 50410-50412].

3.3.4.14 Multi-Tenant Commercial Center (402 North 44th Avenue)

Multi-Tenant Commercial Center filed a registration form for four industrial and stormwater dry wells on October 8, 2001.³³ The dry wells received registration numbers 07-22647-03 through 07-22650-03. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, and loading docks not containing hazardous materials. The nature of the business was listed as general warehouse [WVDEQP 50155-50156].

³⁰ The owner is listed as Mack Arizona Tolleson L.L.C. [WVDEQP 50364].

³¹ The owner is listed as Chamberlain Enterprises [WVDEQP 50554].

³² The owner is listed as Longmeadow Properties [WVDEQP 50410].

³³ The owner is listed as Catellus Development Corporation, care of CB Richard Ellis, Inc. [WVDEQP 50394, 50413].

3.3.4.15 Papago Distribution Center/USPS Phoenix PMPPC (620 North 47th Avenue)

Papago Distribution Center filed a registration form for three dry wells on June 26, 2003.³⁴ The dry wells received registration numbers 07-26372-03 through 076374-03. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, rooftops, streets, landscaped areas, and loading docks where no hazardous materials were handled. The nature of the business was listed as general non-chemical handling warehouse and “USPS” [WVDEQP 50436-50439].

On July 14, 2004, USPS Phoenix PMPPC filed a dry well registration form for three additional dry wells.³⁵ The dry wells received registration numbers 07-26372-03 through 26374. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, and rooftops. The nature of the business was listed as U.S. Post Office [WVDEQP 50561-50562].

3.3.4.16 Papago Industrial Park (302 North 45th Avenue)

Papago Industrial Park filed a registration form for one stormwater dry well on May 28, 1997. The dry well received registration number 07-014016-03.³⁶ According to the dry well registration form, the purpose of the dry well was to drain driveways, parking lots, rooftops, and streets. The nature of the business was listed as warehouse [WVDEQP 50446-50448].

On March 12, 1999, Papago Industrial Park filed another dry well registration form for one stormwater dry well. The dry well received registration number 07-17638-03. According to the registration form, the purpose of the dry well was to drain driveways, parking lots, rooftops, and streets. The nature of the business was listed as warehouse [WVDEQP 50440-50442].

3.3.4.17 Papago West (43rd Avenue and Roosevelt Street)

Papago West filed a registration form for four stormwater dry wells on October 26, 1995.³⁷ The dry wells received registration numbers 07-011679-04 through 07-011682-04. According to the form, the purpose of the dry wells was to drain driveways, parking lots, rooftops, and streets. The nature of the business was listed as warehouse and manufacturing [WVDEQP 50449-50451].

³⁴ The owner is listed as Endowment Realty Investors II, Inc., care of Colliers International [WVDEQP 50436].

³⁵ The owner is listed as US Industrial REIT, care of USAA Real Estate Co. [WVDEQP 50561].

³⁶ There appears to have been another registration form completed on the same date. However, it lists two dry wells that received registration numbers 07-014015-03 through 07-014016-03 [WVDEQP 50443-50444]. It is assumed this was done in error as only one dry well was registered the following year [WVDEQP 50440-50442].

³⁷ The owner is listed as M C D L F Holding Co. [WVDEQP 50449].

3.3.4.18 RJB Development Phase III (4405 West Roosevelt Road)

RJB Development Phase III filed a registration form for six industrial and stormwater dry wells on May 23, 2000.³⁸ The dry wells received registration numbers 07-19506-03 through 07-19511-03. According to the dry well registration form, the purpose of the dry wells was to drain driveways, parking lots, rooftops, streets, and landscaped areas. The nature of the business was listed as general warehouse [WVDEQP 50528-50530].

3.3.4.19 RJB Warehouse Phase III (4411 West Roosevelt Street)

RJB Warehouse Phase III filed a registration form for five industrial and stormwater dry wells on December 22, 1998.³⁹ The dry wells received registration numbers 07-17628-03 through 07-17632-03. According to the registration form, the purpose of Dry Wells 1 through 3 was to drain driveways, parking lots, rooftops, landscaped areas, and general use loading docks. The purpose of Dry Wells 4 and 5 was to drain rooftops and landscaped areas. The nature of the business was listed as warehouse [WVDEQP 50531-50532].

3.3.4.20 Sharon Stair System (6029 West Washington Street)

Sharon Stair System filed a registration form for one industrial and stormwater dry well on July 31, 1991.⁴⁰ The dry well received registration number 07-004242-04. According to the registration form, the purpose of the dry well was to drain driveways, parking lots, and landscaped areas. Sharon Stair System stated that the dry well did not drain any fluids other than stormwater. Construction of the dry well was completed on September 26, 1988. The nature of the business was listed as manufacturing [WVDEQP 50533-50537].

3.3.4.21 Smart & Final (1450 North 43rd Avenue)

Smart & Final filed a registration form for one stormwater dry well on December 9, 2003. The dry well received registration number 07-27501-02.⁴¹ According to the registration form, the purpose of the dry well was to drain driveways or parking lots, rooftops, streets or landscaped areas, and loading docks where no hazardous materials were handled. The nature of the business was listed as offices and retail only [WVDEQP 50538-50539].

3.3.4.22 Southwest Freeport Warehouse (431 North 47th Avenue)

Southwest Freeport Warehouse filed a registration form for one stormwater dry well on January 8, 1996.⁴² The dry well received registration number 07-011939-03. According to the form, the purpose of the dry well was to drain driveways and parking lots. The nature of the business was listed as food grade warehouse and distribution center [WVDEQP 50543-50545].

³⁸ The owner is listed as Total Warehousing with a mailing address of 4411 West Roosevelt Street [WVDEQP 50529].

³⁹ The owner is listed as RJB Development, LLC [WVDEQP 50531].

⁴⁰ The owner is listed as Sharon Company [WVDEQP 50533].

⁴¹ The owner is listed as Topaz-McDowell, LLC [WVDEQP 50538].

⁴² The owner is listed as RREEF West VI Three, Inc. [WVDEQP 50543].

3.3.4.23 Southwest Regional Council of Carpenters (45th Avenue and McDowell Road)

Southwest Regional Council of Carpenters filed a dry well registration form for one dry well on May 7, 2003. The dry well received registration number 07-26075-02. According to the dry well registration form, the purpose of the dry well was to drain driveways, parking lots, rooftops, streets, and landscaped areas. The nature of the business was listed as offices and retail only [WVDEQP 50546-50548].

3.3.4.24 ValWest Technologies, Inc. (430 North 47th Avenue)

ValWest Technologies, Inc., filed a dry well registration form for six dry wells on September 13, 2004. The dry wells received registration numbers 07-29098-04 through 07-29103-04. According to the dry well registration form, the purposes of the six dry wells were as follows: Dry Well 1 was to drain rooftops, Dry Wells 2 and 5 were to drain streets or landscaped areas, Dry Wells 3 and 4 were to drain driveways or parking lots and loading docks where no hazardous materials were handled, and Dry Well 6 was to drain driveways or parking lots. ValWest Technologies, Inc., stated that the dry wells did not drain any areas where hazardous substances were used, stored, loaded, or treated. The nature of the business was listed as manufacturing engineering [WVDEQP 50567-50569].

3.3.4.25 Warehouse Facility (4801 West Polk Street)

A warehouse facility filed a registration form for nine industrial and stormwater dry wells that was approved on February 19, 1999.^{43,44} The dry wells received registration numbers 07-17397-03 through 07-17405-03. According to the dry well registration form, the purpose of the nine dry wells was to drain driveways, parking lots, and rooftops. Dry Wells 4 through 7 also were used to drain streets and landscaped areas, and Dry Wells 1 through 7 were also used to drain general use loading docks. The nature of the business was listed as warehouse and offices and retail only [WVDEQP 50570-50572].

3.3.5 Water Quality Assurance Revolving Fund File Results

The ADEQ MegaSearch and AZURITE databases listed the following two WQARF files for companies located within the industrial survey boundaries: AT&T, 505 North 51st Avenue; and Salesco Systems Arizona Plant, 5736 and 5752 West Jefferson Street. The files for AT&T and Salesco Systems Arizona Plant were not collected because research was previously conducted on these companies. See Section 2.3 for a summary of information found on these facilities. A third WQARF file was obtained for Arizona Meadows, located one block south of Industrial Survey Boundary No. 4a, at 67th Avenue and Durango Road. This file was collected and is summarized below.

⁴³ The owner is listed as Catellus Development Corporation, care of CB Richard Ellis, Inc. [WVDEQP 50570].

⁴⁴ The individual who filed the registration form did not sign or date it [WVDEQP 50570].

3.3.5.1 Arizona Meadows (67th Avenue and Durango Road)

Arizona Meadows removed six USTs containing gasoline and diesel fuel in February 1999.⁴⁵ A petroleum tank leak was confirmed when the USTs were removed. Soil contamination extended to groundwater at 77 feet below ground surface.⁴⁶ Groundwater samples were taken from a monitoring well and two soil borings on April 19 and April 20, 2000. Benzene, toluene, and total xylenes were detected above their respective AWQS limits in MW1. Benzene was detected in MW1 at a maximum concentration of 310 µg/L, toluene was detected at a concentration of 1,200 µg/L, and total xylenes were detected at a concentration of 1,300 µg/L.⁴⁷ On April 25, 2000, three monitoring wells, including MW1, were sampled for BTEX. The only WQARF site contaminant detected above its AWQS limit was benzene, which was detected at a concentration of 150 µg/L in MW-1 [WVDEQP 50418-50419].⁴⁸

Arizona Meadows entered into the ADEQ Voluntary Remediation Program on November 16, 2001, and an area of contaminated soil approximately 200 by 110 feet in size was excavated. The contaminants in the soil were TPH and BTEX. According to the WQARF site screening form, the residential SRLs and GPLs for benzene were exceeded in the soil samples.⁴⁹ Contaminated soil was removed and confirmation sampling was performed on the walls and bottom of the excavation pit to confirm that levels of the contaminants were below their respective residential SRLs and GPLs. On March 10, 2003, ADEQ notified the property owner that no further action was required for soil [WVDEQP 50418].

On March 11, 2003, the ADEQ Voluntary Remediation Program concluded that “[t]he groundwater portion of this site should be referred to the Site Assessment Unit for possible additional investigation,” citing April 2000 groundwater sampling results [WVDEQP 50423-50425]. An October 23, 2003, WQARF site screening form indicates that no further action was required under WQARF because all USTs had been removed, contaminated soil had been remediated, no people were drinking the contaminated water, and the contamination did not extend beyond the boundaries of Arizona Meadows [WVDEQP 50415, 50421]. According to the WQARF site screening form, the approximately 68-acre property had historically been used as a family-owned dairy operation and an agricultural facility dating back to 1910. As of January 2002, five abandoned residences, two equipment storage canopies, and a silo occupied approximately 9 acres along the northern part of the property, which was the area where the six USTs containing gasoline fuel and diesel had been located. As of October 23, 2003, the property was under residential development [WVDEQP 50419-50420].

3.3.6 **Septic Tank Files Results**

ADEQ found a septic tank file for one facility, Modern Component Systems, located within the industrial survey boundaries.

⁴⁵ The USTs were classified as exempt from ADEQ’s UST program because they were less than 1,100 gallons in capacity and were only used for the farm’s agricultural operation [WVDEQP 50418].

⁴⁶ The source document does not provide concentrations of contaminants in soil at Arizona Meadows.

⁴⁷ The AWQS limits for benzene, toluene, and total xylenes are 5 µg/L, 1,000 µg/L, and 10,000 µg/L, respectively [GDASOS 10, 12].

⁴⁸ The AWQS limit for benzene is 5 µg/L [GDASOS 10].

⁴⁹ There is currently no GPL or SRL for TPH.

3.3.6.1 Modern Component Systems (6323 West Van Buren Street)

Modern Component Systems filed an individual sewage disposal system permit application for a 750-gallon concrete septic tank on May 22, 1981. The septic tank received permit number 81-0994. The maximum number of users listed was eight [WVDEQP 50374-50377].

3.3.7 Hazardous Waste Box Storage, Hazardous Materials Incident Logbook, and Hazardous Waste Inspections Files Results

The ADEQ MegaSearch and AZURITE databases listed hazardous waste box storage files for G&K Services, Inc., and hazardous materials incident logbook files for the following nine facilities within the industrial survey boundaries: Bill Birmingham, DNS Trucking, Fowler School, G.I. Trucking, Nalco Chemical, South Western Ice, an Unknown/City of Phoenix facility, and two unknown facilities.⁵⁰ None of the files for these facilities indicated the use of WQARF site COCs or other site contaminants.⁵¹

3.3.7.1 Bill Birmingham (950 North 67th Avenue)

A hazardous materials incident report was filed on June 9, 1989, by an anonymous party for an unknown quantity of spilled diesel fuel. Bill Birmingham, located at 6403 West McDowell Road, reportedly was the responsible party. The incident received report number 475.763. The report lists the cause of the incident as follows: “After the irrigation waters within 50 [feet] of [the] tank evaporate, a black/dark stain is on the soil” [WVDEQP 50298]. The anonymous party stated that the property had a tank with a dispenser pump near it, and the soil from within 50 feet of the tank yielded a greasy layer when put into water [WVDEQP 50298].⁵²

3.3.7.2 DNS Trucking (Interstate 10 and 43rd Avenue)

An Emergency Response Notification System (ERNS) incident notification report was filed on August 9, 1998, for the discharge of 100 gallons of diesel fuel from a ruptured 300-gallon DNS Trucking fuel tank on Interstate 10 at 43rd Avenue. The incident received Emergency Response Unit (ERU) number 93-046-A. The report states that the City of Phoenix Fire Department treated the spill with dispersant and washed the treated fuel into drains leading to Arizona Department of Transportation sumps for recovery [WVDEQP 50300].

3.3.7.3 Fowler School (67th Avenue and West Van Buren Street)

A hazardous materials incident report form was filed on November 8, 1988, for the discharge of 25 milliliters of an unknown organophosphate (suspected to be malathion) into the boys’ restroom at the Fowler School. The cause of the incident was vandalism. The incident received incident number 88-353. Control efforts included instructing the principal of the school to have the bathroom washed down with 5 gallons of bleach, to let it stand for 1 hour,

⁵⁰ “Unknown” is used when it is not known who discharged the material reported to ADEQ and documented in the hazardous materials incident logbook files.

⁵¹ The only hazardous waste box storage files for G&K Services, Inc., were related to dry wells. This information is summarized in Section 3.3.4.7.

⁵² The anonymous party did not specify the type of tank and dispenser pump located on the property.

rinse it with soap and water, allow it to dry, and repeat the process as necessary until the odor disappeared. The restroom was to remain closed until the cleanup was complete. The incident report stated that an “Easy Tech” test showed positive results for pesticides and that a “Haz Cat” test was positive for organophosphates [WVDEQP 50321].

3.3.7.4 G.I. Trucking (5939 West Washington Street)

An incident report from the Arizona Department of Health Services, Division of Environmental Health, was filed for a fire possibly caused by oxidizer, rain, and organic matter in a dumpster at G.I. Trucking on July 27, 1987. The incident received report number 87-161. According to the report, the material involved consisted of an unknown quantity of oxidizer (solid chlorine) and empty propane containers (small torch).⁵³ Control efforts included letting the fire burn to consume the solid chlorine. Comments on the report indicate that there was no discoloration in the water runoff and that there was “no water reactive material as residue” [WVDEQP 50352].

3.3.7.5 Nalco Chemical (6330 West Van Buren Street)

A hazardous materials incident report was filed for fork lift damage to a 55-gallon drum in a Nalco Chemical “T.T. van” on September 16, 1989 [WVDEQP 49812]. The incident received incident number 89-287. According to the report, the material involved included a “VI – SEP 716 emulsion breaker [*sic*]” and “Flam liquid NOS 1993, methanol” [WVDEQP 49812]. Control efforts included contacting a chemical waste management company and the City of Phoenix Fire Department Hazardous Materials team on standby at the scene [WVDEQP 49812-49813].

3.3.7.6 South Western Ice (5925 West Van Buren Street)

An ERNS incident notification report was filed on March 25, 1996, for the release of 85 pounds of anhydrous ammonia into the air at the South Western Ice facility. The incident received ERU number 96-020-B. The report lists the failed seal on the refrigeration unit’s compressor as the cause of the release. The facility was evacuated in response to the release. Remedial actions included closing the valves and rebuilding the compressor [WVDEQP 50540-50542].

3.3.7.7 Unknown/City of Phoenix (4839 West Brill Street)

An ERNS incident notification report was filed on April 26, 2001, for the dumping of oil over the curb and sidewalk of a 2- by 3-foot decorative walk area by unknown persons. The incident received ERU number 01-039-C. The City of Phoenix contracted Safety Kleen, Inc., to conduct the cleanup and removal of the oil and any contaminated soil [WVDEQP 49804-49806].

⁵³ The incident report refers to the material involved as “Cl.” It is assumed that “Cl” stands for chlorine [WVDEQP 50352].

3.3.7.8 Unknown (624 North 44th Avenue)

An ERNS incident notification report was filed on May 4, 2000, for the dumping of “clan lab materials” from an unknown source. The report lists “none” as the medium affected and damage is also listed as “none.” The report lists the material type as oil and the cause description is a “small boxed up lab.” The liquid materials were stored in portable plastic and glass jars and jugs. The incident received ERU number 00-139E. The City of Phoenix contracted Safety Kleen, Inc., to remove the lab materials [WVDEQP 49807-49809].

3.3.7.9 Unknown (304 South 67th Avenue)

An ERNS incident notification report was filed on March 11, 1998, for illegal/ clandestine drug manufacturing laboratory materials in a travel trailer. The incident received ERU number 98-118E. The incident report states that the City of Phoenix Police Department investigated the trailer. The City of Phoenix Fire Department responded to a fire in a travel trailer and the remains of a drug lab were found in the debris. All chemicals had been consumed in the fire.⁵⁴ The U.S. Drug Enforcement Agency funded the cost of the cleanup [WVDEQP 49800-49801].

3.3.8 Air Quality Files Results

The ADEQ MegaSearch and AZURITE databases listed air quality files for three businesses located within the industrial survey boundaries: Belden Communications Division, 505 North 51st Avenue; Powerscreen Southwest, Inc. (Powerscreen), 304 South 67th Avenue; and T.S.R. Contracting, Inc., 30 North 63rd Avenue. The results for Belden Communications Division were not reviewed as they were addressed previously in HGL’s March 29, 2004, letter report concerning AT&T Technologies, which was located at the same address. See Section 2.3 for a summary of information found on these facilities.

3.3.8.1 Powerscreen Southwest, Inc. (304 South 67th Avenue)

Powerscreen was issued air quality control permit number P1472P0-00 on July 11, 1995, for the operation of a crushing and screening plant [WVDEQP 50453]. However, this was an incorrect classification, and thus Powerscreen was issued an air quality control general permit for the operation of stationary and/or portable crushing/screen plants on September 23, 1999 [WVDEQP 50452, 50454].

Powerscreen was issued a separate air quality control general permit for crushing and screening plants operating in Arizona on August 24, 2000, with coverage granted on November 8, 2001. It received coverage number 1001746 and ADEQ general permit number 102 [WVDEQP 50486-50487]. On November 8, 2001, Powerscreen received an authorization to operate (A.T.O.) under this permit. The following models of screens are listed as equipment under the permit: two Chieftans (A.T.O. numbers 102908 and 102915), two Mark IIs (A.T.O. numbers 102913 and 102914), and a Power Grid (A.T.O. number 102916) [WVDEQP 50481-50485].

⁵⁴ The report does not list the chemicals consumed in the fire.

On August 16, 1999, Powerscreen filed a standard permit application form to renew permit number P1472P0-00 that had an expiration date of July 10, 2000.⁵⁵ Rental and sales of screens and “conveyor” is listed under the section of the application for “Equipment Name/Purpose.” The following models of screens are listed as equipment on the form: “Chieftain, MKII, M60, M70, and Powergrid” [WVDEQP 50479, 50508].

According to an air emissions inventory questionnaire for the year 2000, which Powerscreen completed on August 28, 2001, Powerscreen emitted 0.2016 tons of VOCs.⁵⁶ The air quality permit number listed is 1000893 [WVDEQP 50461, 50466].

On October 9, 2001, Powerscreen filed an additional standard permit application form to renew permit number P14728 that had an expiration date of July 10, 2000. Rental and sales of screens and “conveyor” is listed under the section of the application for “Equipment Name/Purpose.” The following models of screens are listed as equipment on the form: “Chieftian, MKII, M60, M70, and Powergrid” [WVDEQP 50488].⁵⁷

On November 12, 2002, ADEQ issued Powerscreen a notice of violation for failure to submit an annual emissions inventory questionnaire for permit number 1001746.⁵⁸ Powerscreen was required to submit the 2001 emissions inventory in response to the notice of violation [WVDEQP 50475-50476].

According to an emissions inventory report for 2001 dated September 22, 2003, Powerscreen’s emissions were below 1 ton, which is below the threshold [WVDEQP 50458].⁵⁹ According to an emissions inventory report for 2002 dated November 14, 2003, Powerscreen operated its equipment for 900 hours in 2002, producing less than 1 ton of emissions, which is below the threshold.⁵⁹ According to the report, Powerscreen had sold its equipment and intended to revise its permit when it had purchased new equipment [WVDEQP 50456-504567].

3.3.8.2 T.S.R. Contracting, Inc. (30 North 63rd Avenue)

On June 22, 1999, ADEQ issued a “notice of opportunity to correct deficiency” to T.S.R. Contracting, Inc., following its failure to submit a 1998 emissions inventory questionnaire by March 31, 1999. T.S.R. Contracting, Inc., was given 30 calendar days from the receipt of the notice to submit the questionnaire [WVDEQP 50551-50553].

On August 19, 1999, ADEQ issued T.S.R. Contracting, Inc., a notice of violation for failure to submit an annual emissions inventory questionnaire for permit number P1465P0-00. The notice indicates that T.S.R. Contracting, Inc., failed to submit the questionnaire within 30 days of receipt of the June 22, 1999, “notice of opportunity to correct deficiency.” T.S.R.

⁵⁵ The owner is listed as Hugh J. Bonner/John H. Raiswell [WVDEQP 50479].

⁵⁶ The emissions inventory questionnaire does not list the types of VOCs emitted [WVDEQP 50466].

⁵⁷ It is unclear why Powerscreen had two existing permits (P1472P0-00 and P14728) that expired on the same date of July 10, 2001 [WVDEQP 50479, 50488].

⁵⁸ Permit number 1001746 is listed as a coverage number on an air quality control general permit issued on August 24, 2000 [WVDEQP 50486-50487].

⁵⁹ The source document does not provide the threshold amount.

Contracting, Inc., was given the opportunity to schedule an appointment to discuss the issue [WVDEQP 50549-50550].⁶⁰

3.4 MARICOPA COUNTY

3.4.1 Maricopa County Air Quality Department File Results

HGL reviewed Maricopa County Air Quality Department files for the following 10 facilities within the industrial survey boundaries: Ameripride Linen & Apparel Service; Crane Trucking; a DEMD, LLC warehouse located at 520 South 67th Avenue; Jacks Tire & Oil; Madera Component Systems, Inc.; Palo Verde Cabinets Company, Inc.; PW Pipe; Sharon Stair Systems, LTD; Varistar Corporation; and Vinyltech Corporation. None of these files contained documents indicating the use of WQARF site COCs or other site contaminants.

3.4.1.1 Ameripride Linen & Apparel Service (6025 West Van Buren Street)

The Maricopa County Air Quality Department issued permit number 990323 to Ameripride Linen & Apparel Service on February 11, 2000. The permit must be renewed by February 28, 2015. According to a public notice issued by the Maricopa County Air Quality Department, the facility is an industrial laundry service. An equipment list provided with the permit application indicates that a natural gas boiler, a natural gas heater, and three natural gas dryers were located at the facility. In addition, the list identifies a Recycleclean solvent cleaner that was installed in August 1997, had a 15-gallon capacity, and was manufactured by Safety Kleen [WVMCAQ 950-956].

3.4.1.2 Crane Trucking (440 South 67th Avenue)

The Maricopa County Air Quality Department issued a non-Title V air permit number 8603717 to Crane Trucking on July 15, 1995. The Maricopa County Air Quality Production Database lists the type of business as “gas non-resale.” The permit expired on August 31, 1996, and was not renewed [WVMCAQ 905].

3.4.1.3 DEMD, LLC Warehouse (520 South 67th Avenue)

DEMD, LLC, the owner of a warehouse located at 520 South 67th Avenue, submitted a National Emission Standards for Hazardous Air Pollutants notification for renovation and demolition activities to the Maricopa County Air Quality Department on March 22, 2010. Old Herman’s is the building name listed on asbestos permit number 807. According to the notification, the warehouse was industrial in nature, and would be demolished between April 5, 2010, and March 19, 2011 [WVMCAQ 906-908].⁶¹

⁶⁰ The ADEQ air quality files did not contain information indicating that T.S.R. Contracting, Inc., met with ADEQ to discuss the notice of violation or that the company submitted the required annual emissions inventory questionnaire.

⁶¹ The Maricopa County Air Quality Department files do not contain information indicating whether the warehouse was demolished.

3.4.1.4 Jacks Tire & Oil (5925 West Monroe Street)

The Maricopa County Air Quality Department issued non-Title V permit number 040131 to Jacks Tire & Oil on November 24, 2004. The permit is scheduled to expire on November 30, 2014. The permit lists the sources of air emissions as tire retreading and industrial fuel burning [WVMCAQ 1016].⁶²

3.4.1.5 Madera Component Systems, Inc. (6323 West Van Buren Street)

The Maricopa County Air Quality Department issued permit number 010062 to Madera Component Systems, Inc., a wood truss manufacturing facility, on October 31, 2003. The permit was revised on May 7, 2008.⁶³ Madera Component Systems, Inc., was permitted to emit up to 28 pounds of particulate matter per day [WVMCAQ 921-936].

3.4.1.6 Palo Verde Cabinets Company, Inc. (4625 West McDowell Road)

The Maricopa County Air Quality Department issued permit number 030187 to Palo Verde Cabinets Company, Inc., on January 8, 2004. The permit was renewed on January 31, 2009. According to the permit, equipment used at the facility included saws, sanders, dust collectors, and a spray booth [WVMCAQ 987-988].⁶⁴

3.4.1.7 PW Pipe (425 South 67th Avenue)

The Maricopa County Air Quality Department issued non-Title V permit number 950200 to PW Pipe on June 30, 2001. The permit states that the sources of emissions from the plant were plastics/foam, commercial fuel burning, and printing. The permit was closed on November 19, 2001, after PW Pipe went out of business. PW Pipe was owned by Eagle Pacific Industries, Inc. [WVMCAQ 1029].

3.4.1.8 Sharon Stair Systems LTD (6029 West Washington Street)

The Maricopa County Air Quality Department issued permit number G02067 to Sharon Stair Systems LTD on February 26, 2002. The permit was renewed on June 14, 2010. An equipment list provided as part of the permit lists an “Enclosure - 70X48X8.7” [WVMCAQ 1052].⁶⁵

3.4.1.9 Varistar Corporation (201 South 61st Avenue)

The Maricopa County Air Quality Department issued permit number 000288 to Varistar Corporation on June 12, 2001. The permit is scheduled to expire on June 30, 2016. The

⁶² Volcanizing operations are often indicative of the use of rubber solvents. This determination of significant users or generators of WQARF site COCs or other site contaminants is based on HGL’s prior investigation of business types and uses of hazardous substances, including the WQARF site COCs and other site contaminants. This work was conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069.

⁶³ The permit does not specify what changes were made during this revision.

⁶⁴ The purpose of this spray booth and the type of chemicals sprayed are not listed in the source document.

⁶⁵ The unit of measurement for the enclosure’s dimensions is not listed on the equipment description. The purpose of this enclosure is not listed.

equipment list submitted with the permit lists 1 cold cleaner, 2 miller granulators, 7 printers, 7 extruders, 7 saws, 4 chillers, 7 bellers, 27 coolers, 6 air compressors, 7 pullers, 6 blowers, 1 blender, various emission control devices, and other equipment.⁶⁶ Additionally, an aboveground storage tank with a rated capacity of 500 gallons was reportedly used for propane storage [WVMCAQ 1011-1013].

3.4.1.10 Vinyltech Corporation (201 South 61st Avenue)

The Maricopa County Air Quality Department issued permit number 000288 to Vinyltech Corporation, a polyvinyl chloride pipe manufacturer, on June 12, 2001. The permit is scheduled to expire on June 30, 2016 [WVMCAQ 995-1010].

3.5 CITY OF PHOENIX

3.5.1 City of Phoenix Fire Department File Results

HGL initially supplied the City of Phoenix Fire Department with 31 addresses associated with 35 companies that had RCRA identification numbers.⁶⁷ The City of Phoenix Fire Department researched its files, which are organized by address, and identified an additional 36 companies associated with the originally supplied 31 addresses. At the request of ADEQ, HGL supplied the City of Phoenix Fire Department with an additional five addresses and one intersection associated with companies that are mentioned in Section 4.1 of this report, but that did not have RCRA identification numbers associated with them, and summarized the results below.⁶⁸ None of the files specifically listed use of the WQARF site COCs or other site contaminants identified by ADEQ. The companies discussed in Sections 3.5.1.1 through 3.5.1.30 below had documented uses of fuel, flammable/combustible liquids, or hazardous materials. The companies that did not have documented uses of these materials are listed in Table 3.8.

Results for AT&T Technologies, Belden Communications, Cable Systems International, Inc., Maximet Corporation, Petco, Inc., and Salesco Systems USA were excluded from this report, as they were addressed in previous HGL reports. See Section 2.3 for a summary of information found on these facilities and previously presented to ADEQ in letter reports.

⁶⁶ The permit does not specify whether any of the site COCs were used in the equipment listed on the permit. According to EPA, cold cleaners use a wide variety of solvents, including 1,1,1-TCA [WVEPAW 29]. Hexavalent chromium is used for industrial processes that require anticorrosive agents [WVINET 1909]. Several commercial websites, including Johnson Controls, refer to use of chromate inhibitors, which contain chromium, to prevent corrosion in different types of chillers [WVINET 2214-2215].

⁶⁷ Of the 35 companies, 33 are located within the industrial survey boundaries and 2 are located in close proximity to the industrial survey boundaries.

⁶⁸ The addresses provided by HGL include 431 North 47th Avenue, 5050 West McDowell Road, 6025 West Van Buren Street, 6440 West Van Buren Street, and 67th Avenue and Durango Street. Regulatory records list Arizona Meadows at 67th Avenue and Durango Street. HGL could not locate a specific address for Arizona Meadows through either an initial city directory search or Internet research. The City of Phoenix Fire Department is unable to locate records associated with an intersection; therefore, it was unable to produce files associated with Arizona Meadows [WVFDPX 1059].

Table 3.8
Facilities with No Documented Use of WQARF Site COCs or Other Site Contaminants

Company	Facility Address
Advanced Package Engineering	5711 West Washington Street
Atlas Cold Storage	6104 West Washington Street
Buzz Oates Enterprise Arizona	6104 West Washington Street
Case Furniture Wholesale	4645 West Polk Street
Chase Commercial Development	4441 West Polk Street
Chief Construction, Inc.	402 North 44 th Avenue
Chris Fischer Productions, Inc.	4645 West Polk Street
Collegeville Imagineering	6025 West Monroe Street
Colton Construction, Inc.	5960 West Washington Street
Columbia Industrial Properties West, LLC	4441 West Polk Street
CVS Pharmacy Distribution Center	125 South 67 th Avenue
Dixon Graphics	430 North 47 th Avenue
F Star 67 th Ave, LLC	125 South 67 th Avenue
Food Safety Net Services - Arizona, LLC	6215 West Van Buren Street
Fortis Auto Repair, Inc.	6425 West Van Buren Street
Fry's Food Stores of Arizona, Inc.	6104 West Washington Street
G&K Services, Inc.	4804 West Roosevelt Street
Goodwill Industries of Central Arizona	515 North 51 st Avenue
Home Depot USA	4720 West Van Buren Street
Hydraulic Controls, Inc.	214 North 43 rd Avenue
JKD Construction & Development, Inc.	5717 West Washington Street
Mar Bro Manufacturing, Inc	5717 West Washington Street
Metal Form Manufacturing	5690 West Washington Street
Outwater Plastics, Inc.	4720 West Van Buren Street
Powerscreen Southwest	304 South 67 th Avenue
PW Pipe, Inc.	425 South 67 th Avenue
Renaissance Company	4703 West Brill Street
RJB Warehouse Phase II	4411 West Roosevelt Street
Summit Builders	402 North 44 th Avenue
Sun State Builders	430 North 47 th Avenue
Ticore Construction, Inc.	4720 West Van Buren Street
Time Index	4441 West Polk Street
USPS-MMOS	620 North 47 th Avenue
WLM, Inc.	4804 West Roosevelt Street
Youngwood Electronics	116 North 59 th Avenue

3.5.1.1 7-Eleven Store No. 22631 (5050 West McDowell Road)

On August 10, 1994, the City of Phoenix Fire Department issued permit number 94-7364 to 7-Eleven for the modification of USTs. On November 10, 1994, it was reported that no leaks had been found in the tanks [WVFDPX 1104-1105]. On April 14, 2000, a permit was issued for the removal of four 10,000-gallon USTs [WVFDPX 1078]. An April 25, 2000, tank closure report indicates that each of the tanks had a capacity of 12,000 gallons [WVFDPX 1079].

3.5.1.2 Ameripride Linen & Apparel (6025 West Van Buren Street)

On April 2, 2007, the City of Phoenix Fire Department issued permit number F214 0702645 to Ameripride Linen & Apparel for the installation of a bulk chemical distribution system to include tanks and process piping [WVFDPX 1111]. On March 27, 2008, permit number F213 0802032 was issued to allow Ameripride Linen & Apparel to store, handle, dispense, or use hazardous materials of an unspecified nature [WVFDPX 1115].

3.5.1.3 Arts Complete Auto Service (6425 West Van Buren Street)

City of Phoenix Fire Department permit number 30541, issued on May 24, 1983, allowed for welding and cutting operations at this facility [WVFDPX 931].⁶⁹

3.5.1.4 AutoZone (4335 West McDowell Road)

A notice of violation dated November 29, 2012, cited no violations at 4335 West McDowell Road [WVFDPX 860]. A permit was issued on November 9, 2012, to the Genuine Parts Company – Autozone No. 2768 for the storage, handling, and use of flammable and combustible liquids. The permit number listed on the document is illegible [WVFDPX 861].

3.5.1.5 Charles M. Schayer, Inc. (4703 West Brill Street)

Several violations were cited at Charles M. Schayer, Inc., in an occupancy activity report (OAR) dated May 22, 2002. These included electrical issues, signage issues, exit identification, fire protection system placement, relocation of the liquefied petroleum gas, reduction in the quantity of liquefied petroleum gas stored on site, and required permits. All violations had been corrected as of August 16, 2002 [WVFDPX 864-869].

City of Phoenix Fire Department permit number F224 0202005 was issued on June 20, 2002, to Charles M. Schayer & Co. for the storage, use, handling, and dispensing of liquefied petroleum gases [WVFDPX 870].

⁶⁹ HGL's prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

3.5.1.6 Circle K Food Store No. 0608 (6440 West Van Buren Street)

According to an undated City of Phoenix Fire Department inspection record, permit number 10991 was issued on June 4, 1974, to Circle K Food Store to install two 10,000-gallon and one 550-gallon USTs, as well as three subpumps, three leak detectors, and three dispensers. The same document indicates that permit number 15617, to remove a 1,000-gallon UST and install one 6,000-gallon UST, was issued on April 4, 1977 [WVFDPX 1118]. A January 24, 1994, OAR indicates that the Circle K Store applied for a permit to remove one 6,000-gallon UST and two 10,000-gallon USTs [WVFDPX 1122]. Circle K Store No. 0608 removed the 6,000-gallon tank and the two 10,000-gallon tanks on February 1, 1994. Three samples were taken under each 10,000-gallon tank, two under the 6,000-gallon tank, two along the piping, and one under each dispenser [WVFDPX 1119-1120].^{70,71}

3.5.1.7 Creative Images, Inc. (6025 West Monroe Road)

A mostly illegible certificate of occupancy was issued on November 7, 1988, for this address [WVFDPX 833]. A June 23, 1989, OAR for a chlorine inspection cites violations for the storage, handling, and use of hazardous materials as well as fire code permit violations. The violations were related to the storage of chlorine at the facility; however, they were resolved with the removal of all chlorine from the facility as of August 29, 1989 [WVFDPX 834-836].

3.5.1.8 Duke Construction LP (520 South 67th Avenue)

On December 19, 2007, permit number F140 0709746 was issued for the installation of a 165-gallon aboveground fuel storage tank located inside the building to feed a fire pump. This tank was inspected via an OAR dated December 20, 2007. The inspection found that all plan notes had been met, and a green tag was issued for the operation of the tank [WVFDPX 823-825].⁷²

3.5.1.9 Dunn Edwards Corp (520 South 67th Avenue)

City of Phoenix Fire Department permit number F142 1006548 was issued on December 22, 2010, for a 300-gallon diesel fuel tank on an emergency generator [WVFDPX 821-822].

3.5.1.10 First Industrial Development Services, LLC (4625 West McDowell Road)

City of Phoenix Fire Department permit number F137 0400987 was issued on March 24, 2004, for the installation of a spray paint booth [WVFDPX 856]. Certificates of occupancy were issued on July 1, 2003, July 3, 2003, September 8, 2003, and January 29, 2009, for commercial remodeling and updating [WVFDPX 854-855].

⁷⁰ The 6,000-gallon tank is mistakenly referred to as an 8,000-gallon tank in a January 13, 1994, City of Phoenix OAR and a section of the February 1, 1994, UST closure report [WVFDPX 1119-1120, 1122].

⁷¹ Results of the soil sampling events were not found in the file.

⁷² The definition of a “green tag” is not clear, but from context it appears to mean that an activity was permitted pursuant to an inspection and approval.

3.5.1.11 Freeport Logistics, Inc. (431 North 47th Avenue)

An OAR completed November 20, 1985, notes that a permit was issued to install two 10,000-gallon USTs for an undisclosed purpose. A November 22, 1985, OAR notes that the tanks were checked for cathodic protection and that both tanks were coated. The City of Phoenix Fire Department issued permit number F200 1203613 on June 25, 2012, to conduct hot work, including cutting and welding [WVFDPX 1067-1069].⁷³ An OAR completed October 9, 1992, granted a permit for the removal of the two 10,000-gallon USTs [WVFDPX 1072]. An October 14, 1992, on-site UST closure report notes that the facility was a warehouse called the “Leaseway Distribution Center,” and states that three samples were taken 3 to 4 feet beneath each tank, and two samples were taken along piping [WVFDPX 1073-1074].⁷⁴

3.5.1.12 Huhtamaki Plastics (402 North 44th Avenue)

An OAR completed on January 8, 2003, notes a number of violations to be remedied. These included a request to replace and maintain in place covers or plugs for empty flammable or combustible liquids containers, to provide spill control for flammable/combustible liquids, and to obtain a permit for storing, handling, and using such liquids. Other violations included exit path delineation, proper access to electrical and water sources, and proper signage (exit and no smoking signs). As of April 16, 2003, corrections had been made and permits were delivered [WVFDPX 909-915].

City of Phoenix Fire Department permit number F1730201601 to store, handle, or use flammable or combustible liquids was issued on May 1, 2002, to Huhtamaki Plastics. On the same date, permit number F2130201503 also was issued to Huhtamaki Plastics to store, handle, dispense, or use hazardous materials [WVFDPX 916-917].⁷⁵

3.5.1.13 Ingram Paper Company (430 North 47th Avenue)

The City of Phoenix Fire Department issued permit number 41057 to Ingram Paper Company on December 18, 1985, for the storage and handling of combustible fibers and materials. An April 24, 1994, hazardous materials incident report for this facility notes a release of 10 gallons of diesel fuel from a truck onto the ground [WVFDPX 953-954].⁷⁶

3.5.1.14 Innovative Environmental Products (4645 West McDowell Road)

An April 25, 2002, OAR identified violations such as the following: a lack of nameplates for two 6,000-gallon storage tanks; tank fill connections being too close to building openings; holes on the top of the tanks; and the need for a permit to store, use, and handle liquefied petroleum gas [WVFDPX 850-852]. On August 7, 2002, the City of Phoenix Fire Department

⁷³ HGL’s prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

⁷⁴ Results of the soil sampling events were not found in the file.

⁷⁵ The permit does not specify the type and quantity of hazardous materials.

⁷⁶ The hazardous materials incident report does not specify the location of the release, other than that it occurred on the ground at the 430 North 47th Avenue facility [WVFDPX 953].

issued permit number F224 0202507 to Innovative Environmental Products for the use, storage, handling, and dispensing of liquefied petroleum gases [WVFDPX 853].

3.5.1.15 Ken’s Custom Detail (304 South 67th Avenue)

An OAR generated January 26, 1984, identified the need for fire code permits for welding and cutting operations, garage services and repairs, and storage and handling of flammable liquids [WVFDPX 814].⁷⁷

On February 8, 1984, the City of Phoenix Fire Department issued permit number 34058 for welding and cutting operations. On the same date, permit number 34056 was issued for the storage, use, and dispensing of flammable/combustible liquids in the process of owning and operating a self-service station [WVFDPX 812-813].

3.5.1.16 Kiser Harriss Chemical Distribution Centers, Inc. (4441 West Polk Street)

A certificate of occupancy for tenant improvements at 4441 West Polk Street was issued to J&J Construction of 2141 East Highland on September 26, 1988 [WVFDPX 832].

An OAR supplement dated December 22, 2009, notes that several incompatible substances had to be separated and that an emergency information cabinet had to be installed at the Kiser Harriss Chemical Distribution Centers, Inc., facility.⁷⁸ Noted issues were corrected by March 17, 2011 [WVFDPX 831].

City of Phoenix permit number F213 1702341 was issued to the Kiser Harriss Chemical Distribution Centers, Inc., on April 14, 2011, for the use, storage, and handling of hazardous materials [WVFDPX 830].

3.5.1.17 Lamberton Industries (425 South 67th Avenue)

City of Phoenix Fire Department permit number 55233 was issued to Lamberton Industries on March 27, 1989, for the storage, handling, or use of compressed gases and for welding and cutting [WVFDPX 818].⁷⁹

3.5.1.18 Lorn Technical Coatings, Division of Maximet (116 North 59th Avenue)

City of Phoenix permit number 53093 was issued to Lorn Technical Coatings on September 23, 1988, for the installation of a paint spray booth [WVFDPX 1007]. Permit number 53344 was issued on October 31, 1988, for the installation of a second paint spray booth [WVFDPX 1006].⁷⁹

⁷⁷ HGL’s prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

⁷⁸ The name of this facility is also incorrectly spelled as “Kiser Harris” on some documents.

⁷⁹ The permits do not specify whether they apply to the same paint spray booths or different paint spray booths.

On March 9, 1989, permit number 55050 was issued for welding and cutting operations; the operation of dust producing equipment; oven and furnace operations; the storage, handling, and use of flammable/combustible liquids; and the storage, handling, and use of hazardous chemicals [WVFDPX 1005].⁸⁰

Permit number 69966 was issued on January 5, 1993, for the installation of a paint and spray booth [WVFDPX 1004].

Plans related to permit number 95-644 were logged on February 15, 1995, for the installation of a liquid propane gas system [WVFDPX 1002-1003].

3.5.1.19 Michelin Tire Co. (5925 West Monroe Street)

A fire risk assessment form completed for the Michelin Tire Co. identified a high level of fire risk. The facility received this designation because it did not have fire hydrants within 350 feet of combustibles, fire department access roads that were a minimum of 20 feet wide, 40 feet of separation from fire department access roads to outside combustible storage, or vehicle access gates compliant with Phoenix Fire Code standards. Additionally, the property had outside combustible storage in excess of 30,000 cubic feet, and did not have 50-foot separations between combustible storage piles, lot lines, and other buildings [WVFDPX 840].

3.5.1.20 Mirachem Corporation (4645 West McDowell Road)

A permit was issued on June 8, 2011, to Mirachem Corporation for the use, storage, and handling of hazardous materials. The permit number on the document is illegible [WVFDPX 849].⁸¹

3.5.1.21 Palo Verde Cabinet Company, Inc. (4625 West McDowell Road)

Three OARs were located for Palo Verde Cabinet Company, Inc. The first, dated February 5, 2004, indicates that the company was to cease operation of a spray booth until permits had been obtained, signs had been posted, and the booth had been re-inspected. The second, dated May 6, 2004, identifies improvements, including the installation of a paint booth, and requires an air balance report and final monitoring of the spray booth for final approval. The third OAR, dated June 16, 2004, indicates that operation of the spray booth was approved [WVFDPX 857-859].

3.5.1.22 Palo Verde Enterprises (6215 West Van Buren Street)

A certificate of occupancy was issued on March 3, 1981, to “P.V. Enterprises” for a mercantile warehouse and sales room at 6215 West Van Buren Street [WVFDPX 939].

⁸⁰ HGL’s prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

⁸¹ The permit does not specify the types of hazardous materials used or permitted at the facility.

City of Phoenix Fire Department permit number 37766 was issued on December 12, 1984, for the storage, use, and dispensing of flammable/combustible liquids as the owner and operator of a service station. On the same date, permit number 37768 was issued allowing for welding and cutting operations at this facility [WVFDPX 937-938].⁸²

3.5.1.23 Prudence Trucking (430 North 47th Avenue)

An April 28, 1994, hazardous materials investigation report describes a diesel fuel spill that occurred at this location on April 21, 1994. The fuel was leaking from the left saddle tank of a semi-truck and was cleaned up by Prudence Trucking, the owner of the vehicle. The cleanup was inspected and found to be complete on April 22, 1994 [WVFDPX 948].

An OAR dated April 21, 1994, cites Prudence Trucking of 3404 West Papago for a flammable liquid violation and notes that spilled diesel fuel, contaminated soil, and absorbent pads were to be disposed of according to local, state, and federal regulations [WVFDPX 949].

3.5.1.24 Rawson Drug (4645 West Polk Street)

City of Phoenix Fire Department permit number 58284 was issued to Rawson Drug on October 30, 1989, for the storage, handling, and use of Class I, II, or IIIA flammable/combustible liquids [WVFDPX 828].⁸³

3.5.1.25 Rugby IPD Corp (4703 West Brill Street)

According to an October 20, 2000, service request form, a general inspection was requested by Rugby IPD Corp to determine amounts of flammable liquids (liquid adhesive) that could be stored at this facility.⁸⁴ During this inspection, the City of Phoenix Fire Department helped Rugby IPD Corp to classify flammable and combustible products so that it could decide how much and what types of products to store [WVFDPX 862].

3.5.1.26 Ruth's Snow Cones (6425 West Van Buren Street)

On March 8, 1963, City of Phoenix Fire Department permit number 849 was issued to Ruth's Snow Cones for the installation of a 1,000-gallon UST. On February 26, 1977, permit number 15132 was issued for the removal of a 1,000-gallon UST and the installation of another 1,000-gallon UST [WVFDPX 932, 936].

⁸² HGL's prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

⁸³ The Phoenix Fire Code defines Class I liquids as those liquids having a closed cup flash point below 100 Fahrenheit (°F), Class II liquids as those liquids having a closed cup flash point at or above 100°F and below 140°F, and Class IIIA liquids as those liquids having a closed cup flash point at or above 140°F and below 200°F [WVINET 1526].

⁸⁴ According to EPA, VOC emissions from "miscellaneous industrial adhesives" result from evaporation of the solvents contained in many of the primers, adhesives, and cleaning materials during adhesive application and drying processes, as well as during surface preparation and cleaning processes associated with adhesives application [WVEPAW 47].

On February 27, 1996, permit number 74067 was issued for the removal of a 1,000-gallon UST. A March 1, 1996, on-site UST closure report notes that no holes were observed in the tank or piping [WVFDPX 933].

3.5.1.27 Southwest Powder Coating (116 North 59th Avenue)

An October 24, 2001, OAR notes several violations related to the setup, condition, and operation of the powder coating booths at Southwest Powder Coating [WVFDPX 996-999].

City of Phoenix Fire Department permit number F224 0104023 was issued on October 30, 2001, for the storage, handling, use, and dispensing of liquid propane gas. On the same date, permit number F196 0104022 was issued for the application of flammable finishes via a four-booth powder coat spray operation [WVFDPX 1000-1001].

3.5.1.28 SuperValu Logistics (6104 West Washington Street)

A June 27, 2008, letter from the Phoenix Fire Department Special Hazards Unit to the facility maintenance manager of SuperValu Logistics lists 28 fire code violations related to the fire protections systems, signage requirements, and location of materials. All violations were corrected by June 23, 2010 [WVFDPX 901-905].

3.5.1.29 SuperValu Logistics/Fry's Distribution Center/Target (6111 West Washington Street)

City of Phoenix Fire Department permit number F173 0805093 was issued to Fry's Distribution Center on July 18, 2008, for fleet fueling purposes using flammable and combustible liquids [WVFDPX 883].

Permit number F143 0806927 was issued to Fry's Distribution Center on September 24, 2008, for the installation of one 660-gallon generator sub-base tank. An OAR generated October 8, 2008, lists inspection details of a 660-gallon aboveground storage tank; however, the owner is listed as SuperValu Logistics [WVFDPX 881-882].

A January 29, 2009, certificate of occupancy was issued to the Ryan Companies of 1 North Central Avenue for the commercial remodeling of 6111 West Washington Street [WVFDPX 880].

A September 22, 2010, permit was issued to Fry's Distribution Center for the installation of new valves and piping to an existing ammonia system. A September 27, 2010, OAR states that a green tag was issued for the upgraded valves and piping [WVFDPX 895-896].⁸⁵

On December 28, 2010, a permit with an illegible permit number was issued to Fry's Distribution Center for the use, storage, or handling of compressed gases. On the same date, another permit with an illegible permit number was issued to Fry's Distribution Center for the

⁸⁵ The definition of a "green tag" is not clear, but from context appears to mean that an activity was permitted pursuant to an inspection and approval.

use, storage, or handling of flammable and combustible liquids. Also on December 28, 2010, a third permit, also illegible, was issued to Fry’s Distribution Center for the use, storage, and handling of hazardous materials [WVFDPX 877-879].

On January 27, 2012, permit number F235 1200528 was issued to Fry’s Distribution Center for the installation of a banana ripening room with ethylene gas and ammonia system upgrade. Inspections of the installation, which is listed as located at the Target facility, were conducted on February 13, March 9, March 27, May 2 and 3, and June 21, 2012, and reports note that requirements for a green tag, among other things, include providing the guard shack with an updated copy of an emergency response plan and relocating a wet stand pipe sign above stand pipe outlets.⁸⁶ A July 5, 2012, OAR of Target documents a complete inspection and approves the installation [WVFDPX 884-892].

An undated permit with an illegible permit number was issued to Fry’s Distribution Center for the modification of an existing “ammonia system-phase 2.” An OAR generated September 6, 2012, lists the system as inspected and approved [WVFDPX 893-894].

3.5.1.30 Total Warehouse, Inc. (402 North 44th Avenue)

An OAR generated on June 17, 1993, for Total Warehouse, Inc., and identifies several violations at the facility. The violations cited were related to locks and latches, exit signs, sprinkler systems, and portable extinguishers. All issues were remedied by February 4, 1994 [WVFDPX 919-921].

City of Phoenix Fire Department permits numbers 66229 and 66229A were issued on December 16, 1991, to install one 500-gallon liquefied petroleum gas tank [WVFDPX 921-922].

3.5.1.31 Total Warehouse, Inc. (4411 West Roosevelt Street)

Two certificates of occupancy, dated December 18, 1998, were found for 4411 West Roosevelt Street. They were issued to Joe E. Woods, Inc., of Mesa, Arizona, for a one-story building and tenant improvements [WVFDPX 942].

City of Phoenix Fire Department permit number 99-735 was issued on February 18, 1999, for the installation of a 125-gallon liquid propane tank [WVFDPX 943-945].

An OAR dated October 28, 2004, cites violations for improper fire signage, and damaged and inoperable emergency lights [WVFDPX 945].

On November 23, 2004, permit number F224 0404308 was issued for the storage, use, handling, and dispensing of liquid propane gas. On the same date, permit number F173 0404343 was issued for the storage, use, and handling of flammable and combustible liquids [WVFDPX 946-947].

⁸⁶ The definition of a “green tag” is not clear, but from context appears to mean that an activity was permitted pursuant to an inspection and approval.

3.5.1.32 Verizon Wireless (505 North 51st Avenue)

An OAR conducted on December 21, 2004, required a permit for the storage of diesel fuel, a vent for the diesel tank, and an emergency vent for the same tank. All cited violations were corrected by June 9, 2005 [WVFDPX 960].

City of Phoenix Fire Department permit number F173 0502009 was issued to Verizon Wireless on May 19, 2005, for the storage, handling, and use of flammable and combustible liquids [WVFDPX 961].⁸⁷

3.5.1.33 Vinyltech Corporation (201 South 61st Avenue)

Two certificates of occupancy were found for 201 South 61st Avenue. The first, dated February 21, 1984, was issued for an addition to the manufacturing facility. The second, undated, was issued for the shell of the manufacturing building [WVFDPX 801].

City of Phoenix Fire Department permit number 51726 was issued to Vinyltech Corporation on May 20, 1988, for the storage, handling, or use of flammable/combustible liquids. The permit also allowed for welding or cutting at specific locations [WVFDPX 795].^{88,89}

Permit number R432 was issued on August 30, 1993, for the storage and handling of a 500-gallon liquid petroleum gas tank. Permit number R432 93-1252 was issued on August 31, 1993, for the installation of one 500-gallon liquid petroleum gas tank [WVFDPX 796-798].

An OAR dated May 18, 1988, lists violations for flammable/combustible liquids, fire code permits, and fire doors. These violations included the requirement of an emergency fuel shut-off switch for the propane dispenser. All violations were corrected by June 6, 1988 [WVFDPX 799-800].

3.5.1.34 Western Electric Company (505 North 51st Avenue)

From 1969 to 1977, the City of Phoenix Fire Department issued the following permits to the Western Electric facility at 505 North 51st Avenue:

- On October 13, 1969, permit number 4729 was issued for the storage and handling of hazardous materials [WVFDPX 995].⁹⁰

⁸⁷ Verizon Wireless operated at 505 North 51st Avenue, which is a facility that was previously investigated in 2004, but information about Verizon Wireless was excluded from that investigation; therefore, relevant information regarding Verizon Wireless is included in this industrial survey.

⁸⁸ The permit does not identify which specific locations were to be used for welding and cutting.

⁸⁹ HGL's prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

⁹⁰ Western Electric Company operated at 505 North 51st Avenue, which is a facility that HGL investigated in 2004, but information about Western Electric Company was excluded from that investigation; therefore, relevant information regarding Western Electric Company is included in this industrial survey.

- On December 4, 1970, permit number 5830 was issued for the installation and use of a spray booth [WVFDPX 871].
- On October 13, 1972, permit number 8616 was issued for the installation of a 1,000-gallon liquid petroleum gas tank [WVFDPX 995].
- On September 8, 1974, permit number 10732 was issued for the installation of a 10,000-gallon gasoline UST with a leak detector, a “sub pump,” and piping [WVFDPX 872].
- On May 12, 1977, permit number 15842 was issued for the installation of two 1,000-gallon liquid petroleum gas tanks [WVFDPX 994].
- On August 31, 1977, permit number 16376 was issued for the transfer of gasoline from a 6,000-gallon UST to a 10,000-gallon UST [WVFDPX 994].

A certificate of occupancy for an 80- by 320-foot addition to the main building was filed in 1978. Another certificate was issued on September 17, 1981, for an oil storage building [WVFDPX 993].

Permit number 19457 was issued to the Western Electric Company on April 25, 1979, to install one 10,000-gallon gasoline UST with a 1/3 horsepower turbine, a leak detector, a “subpump,” and piping [WVFDPX 873].

A property inspection report completed on May 8, 1979, approved the “cover up” of a 10,000-gallon tank installed via permit number 19457 [WVFDPX 969].

An August 18, 1980, OAR approved plans for the installation and operation of a gas chlorinating system. An OAR generated on September 20, 1982, approved the piping for one diesel dispenser tank [WVFDPX 967-968].

According to a January 20, 1983, OAR, Western Electric Company was to remove all combustibles from stairwells and display a flammable sign. These violations were remedied as of February 22, 1983 [WVFDPX 987].

On December 22, 1983, a UST was removed under permit number 33483 [WVFDPX 966].⁹¹

3.5.2 City of Phoenix Water Services Department – Pollution Control Division Files Results

HGL reviewed City of Phoenix Water Services Department files for three facilities: Ameripride Services, Inc., G&K Services, Inc., and Phoenix Metalcraft, Inc. The Phoenix Metalcraft, Inc., facility is located outside of the industrial survey boundaries at 3845 North 29th Avenue. Files for this facility did not indicate the use or discharge of WQARF site COCs or other site contaminants and were therefore excluded from this industrial survey.

⁹¹ The source document does not state which UST was removed.

3.5.2.1 Ameripride Services, Inc. (6025 West Van Buren Street)

According to an April 4, 2008, industrial wastewater permit application, Ameripride Services, Inc., produced wastewater while washing textiles. Ameripride Services, Inc., discarded 79,330 gallons of wastewater per day into the City of Phoenix sanitary sewer system, but did not report the discharge of any WQARF site COCs or other site contaminants. This permit was issued July 1, 2008, and expired June 30, 2013 [WVCPWS 1539-1575]. The City of Phoenix Water Services Department issued a new permit to Ameripride Services, Inc., on July 1, 2013, for the discharge of an average of 119,000 gallons per day. It has an expiration date of June 30, 2018 [WVCPWS 1620-1623].

3.5.2.2 G&K Services, Inc. (4804 West Roosevelt Street)

According to an August 20, 2012, industrial wastewater permit application, G&K Services, Inc., produced wastewater during three processes: industrial laundering, boiler blowdown, and water softener regeneration. G&K Services, Inc., discharged 82,038 gallons of wastewater a day. G&K Services, Inc., reported discharging 0.005 pounds of PCE per gallon of wastewater per day. Additionally, 0.01 pounds of ethylbenzene and 0.06 pounds of toluene per gallon of wastewater per day were discharged.⁹² No other WQARF site COCs or other site contaminants were reported in wastewater discharge from the facility. According to this permit application, the origin of these chemicals was the soiled print and shop towels from industrial customers [WVCPWS 1601-1619]. The Class A permit to discharge industrial wastewater into the City of Phoenix sanitary sewer system was issued on September 27, 2012, and expires on September 30, 2017 [WVCPWS 1594].

3.6 HYDROGEOLOGIC, INC., WATER QUALITY ASSURANCE REVOLVING FUND SITE FILES RESULTS

HGL searched its WQARF site files for information pertaining to facilities within the industrial survey boundaries.⁹³ The WQARF site files included documents on the following seven facilities: Ameripride Services, Inc., Banner Construction Company, Inc., Crane Trucking/Crane & Hayes Trucking, Imagineering, Inc./Creative Images, Inc., G&K Services, Inc., G.I. Trucking, and Ray Hoopes Concrete Company.

3.6.1 Ameripride Services, Inc. (6025 West Van Buren Street)

Two documents were identified in the HGL WQARF files with information relating to Ameripride Services, Inc., including a December 13, 1999, interoffice memorandum sent from ADEQ to the Arizona Attorney General's Office, and another document, dated August 24, 1999, prepared by ADEQ discussing significant industrial users. Both documents are attorney-client privileged and cannot be summarized in this industrial survey [WVDEQI 7339-7356, 8150].

⁹² The review of hazardous waste box storage files, summarized in Section 3.3.7, indicates that G&K Services, Inc., did not use hazardous substances.

⁹³ HGL did not search its WQARF site files for information pertaining to facilities listed in Table 2.2, which have been investigated previously.

3.6.2 Banner Construction Company, Inc. (6805 West Van Buren Street)

According to an undated hazardous materials questionnaire, Banner Construction Company, Inc., operated at 6805 West Van Buren Street since 1959 as a construction company specializing in underground pipeline construction. The company had 30 employees on the date the questionnaire was completed, and its facility included a corporate office, yard, and maintenance department. The previous owner of the property was a farmer named Walter L. Poppe. The company listed Boyd W. Thompson as its company representative. The company reported that it did not generate, transport, treat, store, or dispose of hazardous materials. It also stated that the company had never had a chemical, solvent, or hazardous substance spill, leak, or release. According to the questionnaire, the facility had two USTs, one containing 500 gallons of gasoline and another containing 1,000 gallons of diesel [WVDEQI 545].

3.6.3 Crane Trucking/Crane & Hayes Trucking (440 South 67th Avenue)

A June 28, 1989, repair facility inspection report for solvent use notes that Crane & Hayes Trucking, then operating at 440 South 67th Avenue and owned by Ted Crane, was in the business of trucking and harvesting since about 1967. The report states that gasoline or diesel was used to clean parts, and that hazardous waste oil drums/tanks were occasionally pumped by an unknown company. Crane & Hayes Trucking had never had any dry wells or water wells on its property, but it did have a septic tank for a “commode.” The report notes that the operation was small, appeared clean, and had no signs of solvent use [WVDEQI 1431].

A June 19, 1990, environmental property evaluation of the Estrella Business Park, located near the northwest corner of 63rd Avenue and Buckeye Road, conducted by Western Technologies, Inc., for TCW Realty Advisors, notes that Crane & Hayes Trucking had four USTs [WVDEQP 10157].⁹⁴

3.6.4 Imagineering, Inc./Creative Images, Inc. (6025 West Van Buren Street)

According to a January 16, 1987, Material Safety Data Sheet, cream makeup manufactured by Creative Images, Inc., contained no hazardous components as defined by the Occupational Safety and Health Administration’s Hazard Communication Standard, 29 Code of Federal Regulation 1910.1200 [WVDEQI 8903].

According to an undated City of Phoenix pollution prevention survey and inspection report, Imagineering, Inc., manufactured molds, plastic masks, and cosmetics. The survey lists mercury, lead, and chromium as pollutants of concern for the facility. Imagineering, Inc., stated that it did not have a pollution prevention plan, and that dry wells and storm sewers were located on the property. The survey notes that a red stain was found in the rear of the building [WVDEQI 8905-8908].

⁹⁴ The source document does not list the contents of these USTs. However, as noted in Table 3.3, Crane & Hayes Trucking had three 4,000-gallon gasoline USTs and one 3,000-gallon diesel UST [WVDEQP 43689-43692].

3.6.5 G&K Services, Inc. (4804 West Roosevelt Street)

As of January 4, 1999, the City of Phoenix named G&K Services, Inc., located at 4804 West Roosevelt Street, a significant industrial user holding a wastewater discharge permit [WVDEQI 14418]. A September 10, 1999, document relating to G&K Services, Inc., was excluded from this report due to its privileged status [WVDEQI 20063].

3.6.6 G.I. Trucking (5939 West Washington Street)

A June 30, 1989, repair facility inspection for solvent use report notes that G.I. Trucking was a trucking business that had been at its 5939 West Washington Street location since about 1981 and that the company was the first industrial user of the land.⁹⁵ The inspection states that G.I. Trucking had used one unit manufactured by Safety Kleen, Inc., to clean parts since its start of business, and had two USTs holding 10,000 gallons of diesel fuel. Additionally, G.I. Trucking had one dry well, but no septic system or water wells at the facility. The survey states that waste oil was returned to California or that someone from Bud's Oil Service would "come in to pump it off."⁹⁶ A handwritten note states that minimal maintenance was performed at the facility and that no signs of staining or abuse of the lot were observed [WVDEQI 1404-1405].

3.6.7 Ray Hoopes Concrete Company (224 North 59th Avenue)

A May 29, 1998, Environmental FirstSearch conducted by Dominion Environmental Consultants for Arizona Partsmaster on 15 North 57th Drive identified facilities that store and handle hazardous substances or petroleum products in the vicinity of the Arizona Partsmaster property. According to the report, two 2,000 gallon USTs used to store gasoline and diesel at the Ray Hoopes Concrete Company facility on 224 North 59th Avenue. The report indicates that on May 8, 1991, a LUST was reported at the Ray Hoopes Concrete Company facility, but the capacity and content of the tank were not reported [WVDEQP 519, 523, 527, 559, 567].⁹⁷

⁹⁵ As listed in Appendix A of this industrial survey, G.I. Trucking first appears in the 1982 city directory, and no prior city directory entries were found for 5939 West Washington Street.

⁹⁶ Bud's Oil Service, located at 1340 West Lincoln Street, operated from 1963 until 1979 and collected waste oils and solvents that were sold to local refineries in Arizona or to Edington Oil Company of California [BPSPIN 3578-3589]. The current operator of the 1340 West Lincoln Street facility is Clean Harbors Environmental Services, Inc. [WVINET 1904].

⁹⁷ As noted in Table 3.3, Ray Hoopes Concrete Company had one 2,000-gallon gasoline UST and one 2,000-gallon diesel UST. It is not clear which of these is the LUST reported in 1991. As noted in Table 3.3, both USTs were removed on September 25, 1991.

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4.0 CONCLUSIONS, DATA GAPS, AND RECOMMENDATIONS

This section provides conclusions regarding the industrial survey, identifies data gaps, and presents recommendations for additional research based on information identified during the development of this report.

4.1 CONCLUSIONS

The results of the industrial survey research indicate evidence of the release or presence of WQARF site COCs or other site contaminants at the following company facilities located within or in close proximity to the industrial survey boundaries: 7-Eleven Store No. 22631, 5050 West McDowell Road; Ameripride Linen & Apparel Service, 6025 West Van Buren Street; Arizona Meadows, 67th Avenue and Durango Street; Circle K Stores, Inc., No. 0608, 6440 West Van Buren Street; G&K Services, Inc., 4804 West Roosevelt Street; Imagineering, Inc./Creative Images, Inc., 6025 West Van Buren Street; Southwest Freepport/The RREEF Funds, 431 North 47th Avenue; and Varistar Corporation, 201 South 61st Avenue. Figure 4.1 depicts the location of these facilities. The facilities listed in Table 2.2 are also located within the industrial survey boundaries and have evidence of the release or presence of the WQARF site COCs 1,1-DCE, 1,1-DCA, chromium, *cis*-1,2-DCE, PCE, and TCE, and 1,1,1-TCA. The facilities have been investigated previously and a brief summary of findings is presented in Section 2.3.

7-Eleven Store No. 22631, located at 5050 West McDowell Road, is located across the street and to the north of Industrial Survey Boundary No. 4b, but was included in this industrial survey because the WQARF site COCs and other site contaminants have been detected in soil and groundwater samples collected from the facility. A release of unleaded gasoline occurred at the facility, and BTEX has been detected above GPLs and SRLs in soil samples collected there [WVDEQP 43180-43182, 43276; see also Table 3.4]. Additionally, benzene, toluene, ethylbenzene, and TCE have been detected above AWQS limits in groundwater samples collected from the facility [WVDEQP 43154, 43279-43281, 43285-43286; see also Table 3.5].

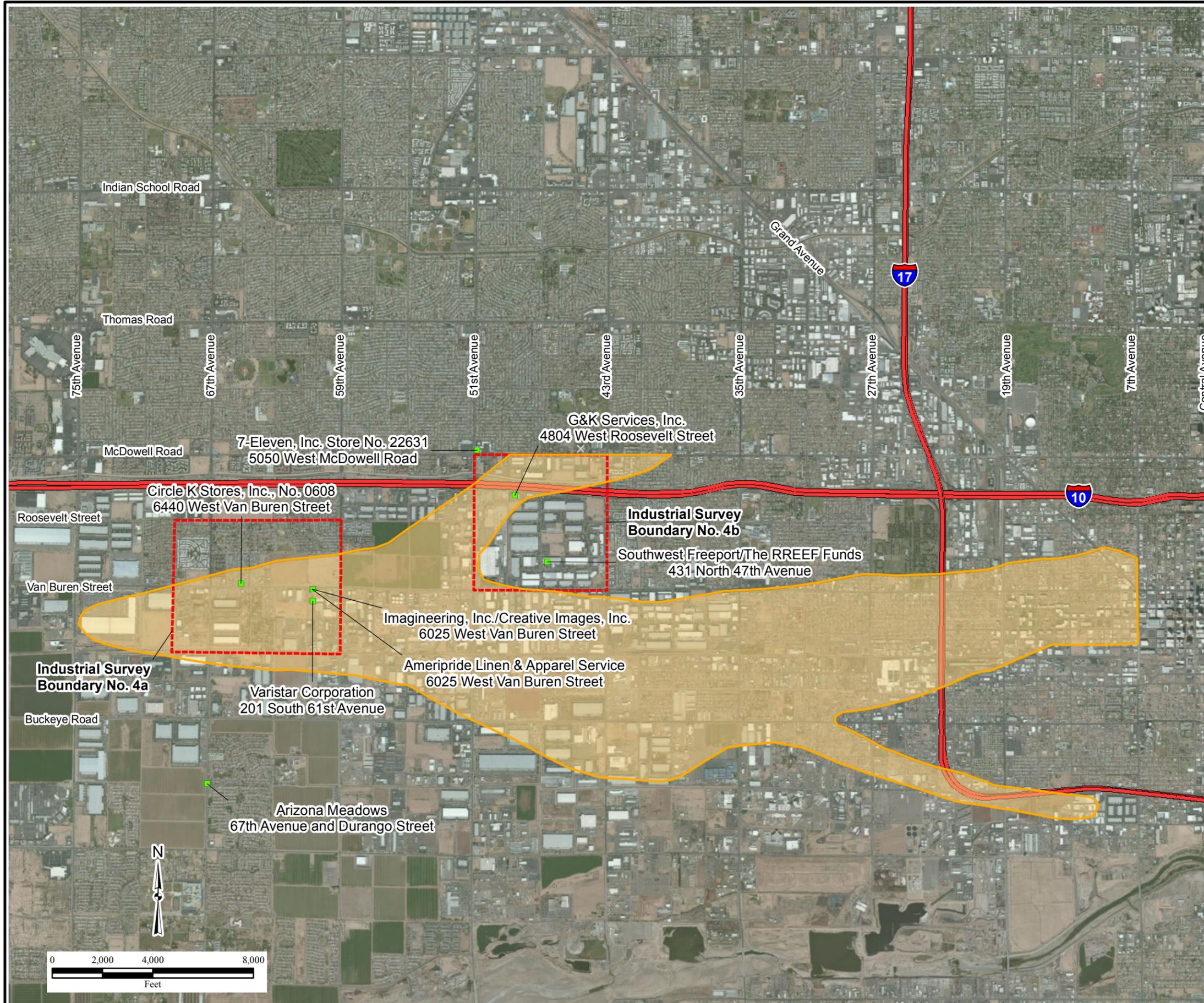
Ameripride Linen & Apparel Service, located at 6025 West Van Buren Street, is an industrial laundry service. Although the company did not report the discharge of any WQARF site COCs into the water supply in its 2008 wastewater permit application, an equipment list provided to the Maricopa County Air Quality Department in 2000 indicates that the facility used a Recyclean solvent cleaner, with a 15-gallon capacity, which was installed in August 1997 [WVMCAQ 950-956].

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**Figure 4.1
Facilities of Interest**

Legend

- Facility of Interest
- Interstate
- - - Industrial Survey Boundary
- Estimated Groundwater Plume Area, September 2013



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(4-01)Facilities_of_Interest.mxd
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Source: ADEQ, ESRI ArcGIS Online Aerial Imagery

Arizona Meadows, located at 67th Avenue and Durango Street, is approximately one city block south of Industrial Survey Boundary No. 4a, but was included in this industrial survey because benzene, toluene, and total xylenes were detected above AWQS limits in groundwater samples collected from the facility [WVDEQP 50418-50419]. In 2001, an area of contaminated soil approximately 200 by 110 feet in size was excavated. The contaminants in the soil were TPH and BTEX. Benzene was detected in soil samples above GPLs and SRLs. Contaminated soil was removed, and additional sampling was performed on the walls and bottom of the excavation pit to confirm that levels of the contaminants were below their respective residential SRLs and GPLs. On March 10, 2003, ADEQ notified the property owner that no further action was required for soil [WVDEQP 50418].

The Circle K Store No. 0608, located at 6440 West Van Buren Street, had a release from a premium unleaded product line in 1992 [WVDEQP 43362]. BTEX was detected in soil at the facility, but only xylenes were detected above the GPL [WVDEQP 43370-43371]. Additionally, PCE, TCE, benzene, toluene, and ethylbenzene were detected in groundwater samples above AWQS limits [see Table 3.6].

G&K Services, Inc., located at 4804 West Roosevelt Street, has discharged PCE, ethylbenzene, and toluene into its wastewater as a result of industrial laundering, boiler blowdown, and water softener regeneration [WVCPWS 1601-1619]. On January 4, 1999, the City of Phoenix named G&K Services, Inc., located at 4804 West Roosevelt Street, a significant industrial user holding a wastewater discharge permit [WVDEQI 14418]. Results from an April 14, 2009, soil sampling event detected chromium at concentrations of up to 31 mg/kg in DW-1-35, below the GPL of 590 mg/kg. The COC *cis*-1,2-DCE, and BTEX, were not detected. The samples were not tested for the other site COCs [WVDEQP 55869-55883].

Imagineering, Inc./Creative Images, Inc., located at 6025 West Monroe Street and 6025 West Van Buren Street, manufactured cosmetics, plastic masks, and molds. According to an undated City of Phoenix pollution prevention survey and inspection report, chromium was a pollutant of concern at the Monroe Street facility. The facility did not have a pollution prevention plan and a red stain was found in the rear of the building [WVDEQI 8905-8908].

Southwest Freeport/The RREEF Funds, located at 431 North 47th Avenue, had a release of diesel fuel from a fuel dispenser [WVDEQP 42965].⁹⁸ On June 25, 2012, the City of Phoenix Fire Department issued permit number F200 1203613 to Freeport Logistics to conduct hot work, including cutting and welding [WVFDPX 1107-1109].⁹⁹

Varistar Corporation, located at 201 South 61st Avenue, is currently operating under permit number 000288, issued by the Maricopa County Air Quality Department. According to an equipment list submitted with the permit, the facility uses 1 cold cleaner, 2 miller granulators, 7 printers, 7 extruders, 7 saws, 4 chillers, 7 bellows, 27 coolers, 6 air compressors, 7 pullers, 6 blowers, 1 blender, various emission control devices, and other equipment. Additionally, an

⁹⁸ Results of the soil sampling events were not found in the file.

⁹⁹ HGL's prior investigation of business types, conducted on behalf of ADEQ for other industrial surveys in Arizona under Contract No. 01-0069, indicates that welding operations commonly use the COC TCE in *de minimis* quantities.

aboveground storage tank with a rated capacity of 500 gallons was reportedly used for propane storage [WVMCAQ 1011-1013]. According to EPA, cold cleaners use a wide variety of solvents, including 1,1,1-TCA [WVEPAW 29]. Hexavalent chromium is used for industrial processes that require anticorrosive agents [WVINET 1909]. Several commercial websites, including Johnson Controls, refer to use of chromate inhibitors, which contain chromium, to prevent corrosion in different types of chillers [WVINET 2214-2215].

4.2 DATA GAPS

At this time, HGL has not identified any data gaps.

4.3 RECOMMENDATIONS

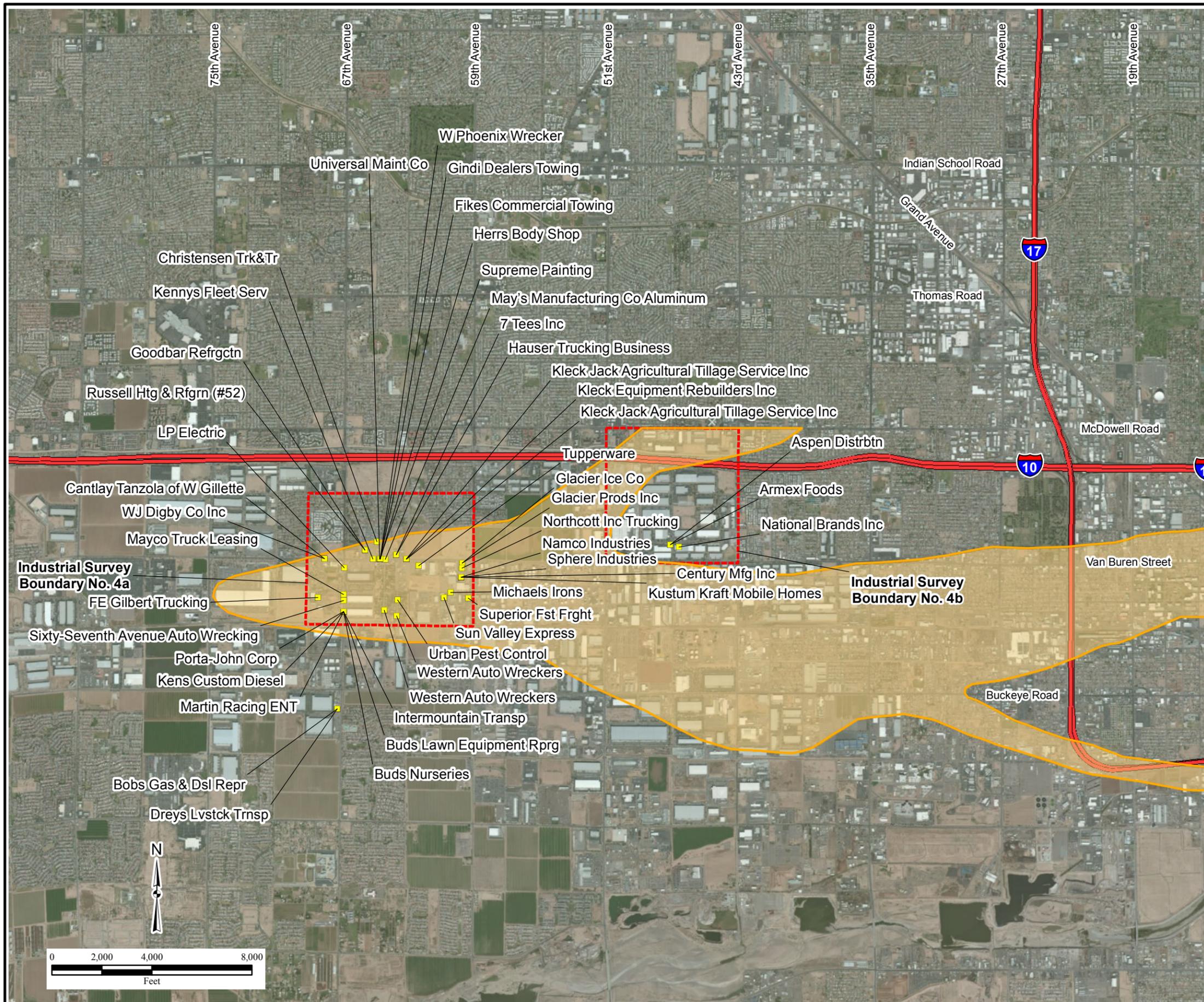
Listed below are recommendations for additional research that could provide pertinent information about facilities located within and near the industrial survey boundaries:

- Conduct corporate research on facilities listed in Table 4.1 below. The facilities were selected from Appendix A if 1) the business types are associated with the use and generation of WQARF site COCs or other site contaminants; 2) the facilities operated prior to 1984 when RCRA amendments strengthened waste management provisions; and 3) no regulatory records were found while preparing this industrial survey. Figure 4.2 depicts the location of the facilities listed in Table 4.1 below.

Table 4.1
Facilities for Additional Research

Facility	Address	Years	Business Type
7 Tees Inc	6330 West Van Buren Street	1978-1982	Textile Processing and Manufacturing
Armex Foods	4741 West Polk Street	1983	Fleet Maintenance
Aspen Distrbtn	4741 West Polk Street	1983	Fleet Maintenance
Bobs Gas & Dsl Repr	1410 South 67 th Avenue	1982	Auto Repair
Buds Lawn Equipment Rprg	307 South 67 th Avenue	1981-1984, 1986-1988	Manufacturing Operations
Buds Nurseries	307 South 67 th Avenue	1981-1984, 1986	Fumigant Production and Formulation

**Figure 4.2
Facilities for Additional Research**



Legend

- Facility for Additional Research
- Interstate
- - - Industrial Survey Boundary
- Estimated Groundwater Plume Area, September 2013

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(4-02)Facilities_AdditionalResearch.mxd
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Source: ADEQ, ESRI ArcGIS Online Aerial Imagery



Table 4.1 (continued)
Facilities for Additional Research

Facility	Address	Years	Business Type
Cantlay Tanzola of W Gillette	6853 West Van Buren Street	1973, 1975, 1978-1980	Fleet Maintenance
Century Mfg Inc	5925 West Monroe Street	1973	Manufacturing Operations
Christensen Trk&Tr	6434 West Van Buren Street	1981-1983	Auto Repair
Dreys Lvstck Trnsp	1410 South 67 th Avenue	1975, 1978-1979, 1982, 1984	Fleet Maintenance
FE Gilbert Trucking	24 South 69 th Avenue	1983-1984, 1986-2003, 2005, 2009	Fleet Maintenance
Fikes Commercial Towing	6445 West Van Buren Street	1977-1978	Fleet Maintenance
Gindi Dealers Towing	6445 West Van Buren Street	1978	Fleet Maintenance
Glacier Ice Co	5925 West Van Buren Street	1978-1984, 1986-1990	Air Conditioning and Refrigeration
Glacier Prods Inc	5925 West Van Buren Street	1983	Fleet Maintenance
Goodbar Refrgctn	6512 West Van Buren Street	1983	Air Conditioning and Refrigeration
Hauser Trucking Business	6330 West Van Buren Street	1965-1969	Fleet Maintenance
Herrs Body Shop	6445 West Van Buren Street	1978	Auto Body Repair
Intermountain Transp	307 South 67 th Avenue	1979	Fleet Maintenance
Kennys Fleet Serv	6505 West Van Buren Street	1977-1978	Fleet Maintenance
Kens Custom Diesel	307 South 67 th Avenue	1979-1980, 1982-1984	Auto Repair
Kleck Equipment Rebuilders Inc	6316 West Van Buren Street	1975, 1977-1979, 1981-1982, 1984, 1987-1988	Manufacturing Operation
Kleck Jack Agricultural Tillage Service Inc	6314 West Van Buren Street	1968-1969, 1976-1977	Fleet Maintenance
	6316 West Van Buren Street	1963-1967, 1975, 1980, 1983, 1986	
Kustum Kraft Mobile Homes	5925 West Monroe Street	1965	Manufacturing Operation
LP Electric	211 North 67 th Avenue	1982-1984	Miscellaneous Degreasing Operations
Martin Racing ENT	307 South 67 th Avenue	1981-1984, 1986	Fleet Maintenance
May's Manufacturing Co Aluminum	6419 West Van Buren Street	1964	Metal Fabrication and Plating - Aluminum
Mayco Truck Leasing	28 South 67 th Avenue	1983	Fleet Maintenance
Michaels Irons	6035 West Washington Street	1978-1982	Metal Fabrication and Plating - Non-Aluminum
Namco Industries	5925 West Monroe Street	1967	Manufacturing Operation
National Brands Inc	4633 West Polk Street	1982-1984, 1986-2003, 2006-2012	Manufacturing Operation
Northcott Inc Trucking	5926 West Monroe Street	1978-1979	Fleet Maintenance

**Table 4.1 (concluded)
Facilities for Additional Research**

Facility	Address	Years	Business Type
Porta-John Corp	307 South 67 th Avenue	1975, 1978-1979	Fleet Maintenance
Russell Htg & Rfgrn (#52)	6512 West Van Buren Street	1973	Air Conditioning and Refrigeration
Sixty-Seventh Avenue Auto Wrecking	112 South 67 th Avenue	1964	Auto Dealers and Service
Sphere Industries	5925 West Monroe Street	1975	Manufacturing Operation
Sun Valley Express	6045 West Washington Street	1982, 1984, 1986	Fleet Maintenance
Superior Fst Frght	5939 West Washington Street	1982-1984, 1986	Fleet Maintenance
Supreme Painting	6451 West Van Buren Street	1975	Paint Operations
Tupperware	6215 West Van Buren Street	1982-1984, 1986-1991, 1992-1996	Plastic Manufacturing
Universal Maint Co	6451 West Van Buren Street	1975	Miscellaneous Degreasing Operations
Urban Pest Control	36 South 64 th Avenue	1981-1984, 1986-1989	Fumigant Production and Formulation
W Phoenix Wrecker	6445 West Van Buren Street	1975	Auto Dealers and Service
Western Auto Wreckers	122 South 64 th Avenue	1966-1969	Auto Dealers and Service
	212 South 64 th Avenue	1971, 1973, 1975-1979, 1981-1984, 1986-1995, 2006-2008	
WJ Digby Co Inc	6853 West Van Buren Street	1981	Fleet Maintenance

- Issue Arizona Revised Statues § 49-288 request for information letters to any facilities listed in Table 4.1, above, that are viable parties pursuant to corporate research.

APPENDIX A

CITY DIRECTORY RESEARCH RESULTS

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A1.0 INDUSTRIAL SURVEY RESULTS

A1.1 PHOENIX CITY DIRECTORY RESULTS

This appendix contains a list of businesses identified through the review of Phoenix city directories for the West Van Buren Water Quality Assurance Revolving Fund (WQARF) Registry Site (site). HydroGeoLogic, Inc. (HGL) used past research on general business categories typically associated with the use or generation of specific WQARF site contaminants of concern (COCs) and other site contaminants to eliminate companies that were unlikely to have used the WQARF site COCs or other site contaminants. Only businesses that could potentially have used or generated the WQARF site COCs or other site contaminants are listed in Tables A.1 through A.40 below.

HGL reviewed Cole's and Polk's city directories at the Arizona State Capitol Archives Library. City directory reviews were conducted on the 56 address ranges found in Table 2.1 of the industrial survey report. Industrial survey boundary streets were only reviewed for addresses inclusive of the boundaries. Therefore, only odd numbered addresses were reviewed for 51st Avenue, 69th Avenue, McDowell Road, and Roosevelt Street, and only even numbered addresses were reviewed for 43rd and 59th Avenues. Parts of Van Buren Street are included in both Industrial Survey Boundaries Nos. 1 and 2; both even and odd numbered addresses are included in Industrial Survey Boundary No. 1, but only even addresses are included in Industrial Survey Boundary No. 2.

HGL reviewed city directories for the period of 1960 to 2013. Information was obtained from the street address section of the directories. The street address section includes listings that allow for a review of information by individual address. For specific address ranges, HGL collected pages from the directories beginning with the first directory in which commercial or industrial entities appeared for those ranges. The city directories indicate that the first commercial/industrial use of the area began in 1963. The following Phoenix city directories were missing or were not available during the research period: 1962, 1970, 1972, 1974, and 1985.

Tables A.1 through A.40 include the address, business name, years of operation, and business type, if known. Business types were identified by business name. If a business type could not be determined, the business type is listed as "undetermined."

Table A.1
City Directory Results – 620-1540 North 43rd Avenue

Address	Company	Years	Business Type
620 North 43rd Avenue			
	De Asian Produce LLC	2007-2008	Produce Dealer
	J&R Produce	2007	Produce Dealer
	KT Company	2003	Auto Body Parts
	KTO Auto Body Parts Inc	2004	Auto Body Parts
Suite 100	KT Auto Body Parts	2006, 2008-2013	Auto Body Parts
Suite 200	Arielle J Inc	2003-2004, 2006, 2008-2009	Women's and Children's Clothing
	R&C Trading	2009-2010	Food Distribution
640 North 43rd Avenue			
	Home Elegance by Lambros	2010-2013	Furniture
	Lam Brothers Co	2009	Furniture
	Waterhill Arizona Corp	2006-2009	Wholesale Distribution
	Waterland of El Paso LLC	2007-2008	Undetermined
840 North 43rd Avenue			
	Empire Power Systems	2000-2006, 2008-2013	Power Supply Systems
	Empire Rental BW	2004, 2009	Power Supply Systems
	Empire Southwest EMP Pwr	2001	Power Supply Systems
	Empire Southwest LLC	2009	Power Supply Systems
	Fleet Direct	2010	Auto Brokers
	Midas Mufflr&Brake	1988-1989	Mufflers and Brakes
1450 North 43rd Avenue			
	Topaz McDowell LLC	2005-2006, 2009	Undetermined

**Table A.2
City Directory Results – 353-844 North 44th Avenue**

Address	Company	Years	Business Type
353 North 44th Avenue			
	J Mark Inc	2004, 2007, 2009	Industrial Supply
	Wesco Distribution	2009	Industrial Supply
	Wesco International	2011-2013	Industrial Supply
402 North 44th Avenue			
	Common Mkt Wrhse	1998	Warehouse
	Huhtamaki Foodservice Inc	2008-2009	Food Service Containers
	Huhtamaki Packaging	2006-2007, 2009	Packaging Services
	Huhtamaki Plastics	2004-2007	Plastics Services
	Lash-Tamaron	1988-1991	Undetermined
	Moore Bus Forms & Sy	1990, 1993-1994	Business Forms and Systems
	Packaging Resources Inc	2000-2003, 2005	Packaging Services
	PCA	2009	Supplier of Corrugated Shipping Containers
	Quality Furniture LLC	2008	Furniture Services
	Total Warehousing Inc	1998	Warehouse
	Triangle Enterprises, Inc.	1999	Undetermined
	US Container Corp	1996-1998	Containers
410 North 44th Avenue			
	Cendant Corp	2006	Patent Owner/Lessor
	Ruth Lay	1993	Undetermined
426 North 44th Avenue			
Suite 100	Mmj Dev Inc	2004	Commercial Contracting
601 North 44th Avenue			
	Corporate Office/Distribution Center	2005	Distribution and Corporate Office
	Drexel Heritage Home Furnishings	2008, 2010-2011	Furniture Services

Table A.2 (concluded)
City Directory Results – 353-844 North 44th Avenue

Address	Company	Years	Business Type
601 North 44th Avenue			
	Quality California LLC	2004	Furniture Services
	Quality Furniture LLC	2005, 2009	Furniture Services
	Thomasville Home Furnishings of Ariz	2002-2003, 2005-2013	Furniture Services
Suite 102	Sportlite Inc	2009-2012	Electrical Lighting Manufacturing
624 North 44th Avenue			
	Flag 1	2008	Undetermined
	Republic Beverage Company	2008, 2011-2012	Beverage Services
	Republic National Distribution Co	2009-2012	Distribution
	United Beverage Co	2000-2007, 2009-2010	Beverage Services
	Youngs Market Co Southwest	2013	Wine and Spirit Distributor
801 North 44th Avenue			
	AZ School Furnishing	2002-2004, 2006	Furniture Services
	Empire Southwest	2011-2013	Machinery Rentals
844 North 44th Avenue			
	Colletti Trucking	2001-2003, 2009, 2011-2013	Trucking
	Exel	2011	Logistics
	Home Delivery Link	2013	Transportation
	Pierce Leahy Archives	2000-2003	Microfilming & Imaging Service Equipment & Supplies
	TGI Fbren Office	2001-2003	Fabrication
Suite 2	Sears Logistics Services	2004, 2007-2010	Transportation

**Table A.3
City Directory Results – 301-351 North 45th Avenue**

Address	Company	Years	Business Type
301 North 45th Avenue			
	Big O Tires	2000-2003, 2006-2007, 2009-2010	Tires and Auto Repair
	Phoenix Turney Partners LLC	2004	Undetermined
	Sidehill Phoenix LLC	2004	Undetermined
302 North 45th Avenue			
	Certi Fit Auto Body Parts	2001-2006, 2008-2012	Auto Body Parts
	Ostler International Inc	2005, 2009	Auto Body Parts
Suite 3	Sealy Mattress Co	2010-2013	Mattress Company
349 North 45th Avenue			
	Barlow Co	1993-1998, 2000-2001	General Warehousing and Commercial Storage
	Brothers Moving & Strg of Phnx	2002-2004	Moving Services
	Diamond Kitchen & Bath	2010-2013	Kitchen & Bath
	Lily Inst & Rstrt JB	1987-1990	Undetermined
	Paper Distb of AZ	1987-1990	Paper Distribution

Table A.4
City Directory Results – 430-1120 North 47th Avenue

Address	Company	Years	Business Type
430 North 47th Avenue			
	C&D Crystal Cleaning	2009-2010	Cleaning Services
	Coyote Moon	2006-2008	Screen Printing and Embroidery
	Coyote Moon Southwest Furnishings In	2005-2008	Furniture Services
	Crystal Cleaning	2010-2013	Cleaning Services
	Fisher Sand and Gravel	2013	Sand and Gravel
	Ingram Paper Co	1984, 1986-1996	Paper
	ITC International Technical Coating	2010-2013	Technical Coating
	Rsrct Intrntl	1998	Undetermined
	Summit Warehouse & Logistics	2013	Warehouse and Transportation
	SW Freeport Distrb	1997-1998	Distribution
	Valmarq Embroidery	2009	Embroidery
	Valtronics Engineering & Mfg	2006-2009	Engineering and Manufacturing
	Valwest Technologies Inc	2006-2008	Technology Services
	Xpedx Eqp Drv	1999	Equipment Services
431 North 47th Avenue			
	Cornerstone US Wine Imports	2009	Wine Imports
	Expression Wine Brokers	2007	Wine Broker
	Freeport Distribution Inc	1999, 2001-2004, 2006-2010, 2013	Distribution
	Freeport Logistics Inc	2009	Transportation
	Freeport Transportation Inc	2001-2003, 2005, 2011-2012	Transportation
	Goldstein & Luera	2008	Carpentry, Concrete, and Drywall
	Hand Select Wines	2006	Wine Services
	High Altitude Performance	2008	Undetermined
	Itel Distrtn Syst	1990-1992	Distribution
	Itel Transport Svs	1990-1992	Transportation
	Johnson Brothers Liquor Co	2009-2010	Liquor Services
	Leaseway Distbtr	1988-1989	Distribution
	Lighting Warehouse	1987	Lighting Warehouse

Table A.4 (continued)
City Directory Results – 430-1120 North 47th Avenue

Address	Company	Years	Business Type
431 North 47th Avenue			
	Mega Wine	2009	Wine Services
	SW Freeport Holding	1993-1996, 2000, 2006	Logistics
	Wine Quest Distributing	2009	Wine Distribution
620 North 47th Avenue			
	Mathesom Flight Extenders	2008-2009	Terminal Handling and Ground Support
	Mthsn RE Pstl Svc	2003	Terminal Handling and Ground Support
	National Postal Mail Handlers Union	2011-2013	Terminal Handling and Ground Support
	United States Postal Service	2007, 2009	Postal Service
Suite 19	Matheson Trucking Co	2004, 2009	Trucking
822 North 47th Avenue			
	Unscr Printg Ppr	2000-2003	Printing
824 North 47th Avenue			
	DJM Resources Inc	2007	Undetermined
835 North 47th Avenue			
	Atlantic Relocation Systems	1999-2001, 2006, 2008-2013	Moving Services
	Effort Entps Phoenix Arz Inc	2004	Undetermined
844 North 47th Avenue			
	National Sani Unsrc	2000	Undetermined
	Uniscore	2000	Undetermined
	Uniscore Distribution Div	2010	Distribution
Suite A	Uniscore Maintenance Supply Systems	2001, 2003, 2011-2013	Undetermined
1010 North 47th Avenue			
	Hrdsn Dwny Const	2000	Construction
	Omco	2013	Metal Rolling and Framing
	Total Warehousing	2003, 2008	Warehouse

Table A.4 (concluded)
City Directory Results – 430-1120 North 47th Avenue

Address	Company	Years	Business Type
1043 North 47th Avenue			
	Amsafe Aviation	2004-2007, 2009-2010	Aviation
	Amsafe Commercial Products	2006-2007, 2009-2010	Aviation
	Amsafe Defense	2010	Aviation
	Amsafe Global Holdings Inc	2010	Aviation
	Amsafe Inc	2001-2003, 2006, 2010	Aviation
	Amsafe Logistics & Support	2006-2007	Aviation
	Brittanic Aviation Inc.	2006-2008	Aviation
1115 North 47th Avenue			
	Alliance Bearing Ind	2002, 2005-2006	Bearings
	Alliance Beverage Distributing Co	2003, 2007, 2011-2013	Beverage Distribution
	Common Mkt Wrhse	1999	Warehouse
	Gentingel Castle Inc	2004, 2006-2007	Undetermined
	Total Whsng Inc	1999	Warehouse
1120 North 47th Avenue			
	Alladin Cpt Mills	2000-2001	Carpet Mill
	Best Overnight Express	2001	Shipping
	City Express	2000-2001	Shipping
	Denver Express Delivery	2004	Shipping
	Door To Door Storage	2012-2013	Storage Services
	Graebel	2006-2007	Moving Services
	Graebel Lightning Moves	2000-2002, 2004, 2006, 2008-2009	Moving Services
Suite 100	Graebel Van Lines	2005, 2010-2013	Moving Services
Suite 200	Aladdin Manufacturing	2007, 2009	Manufacturing
	Window Master	2008, 2010-2011	Window Services
Suite 300	Mayflower Transit 344	2006-2008	Moving Services
	Paloverde Moving Systems Mayflower	2003, 2005	Moving Services
	Southwest Mayflower	2007-2008	Moving Services
	Southwest Moving Systems Inc	2004-2007	Moving Services

Table A.5
City Directory Results – 1025-1525 North 51st Avenue

Address	Company	Years	Business Type
1025 North 51st Avenue			
	Superstar Express Car Wash	2011-2013	Car Wash
1155 North 51st Avenue			
	Quicktrip 444	2008-2013	Gas Station
	Quicktrip Corp	2009	Gas Station

Table A.6
City Directory Results – 800-1099 North 60th Drive

Address	Company	Years	Business Type
843 North 60th Drive			
	Mother Lode Detect	1993-1994	Undetermined

Table A.7
City Directory Results – 1-899 North 61st Avenue

Address	Company	Years	Business Type
125 North 61st Avenue			
	Airpure Filter Sales & Service Inc	2004, 2009	Air Filtration
	ASUSC LLC	2008	Undetermined
	Brothers Moving & Storage	2006-2007, 2011, 2013	Moving and Storage
	Dale F Watkins Co Inc	2008-2013	Plumbing and Heating Equipment
	ECOAir Products Inc	1986-1991, 1993-2003, 2009-2013	Air Products

Table A.8
City Directory Results – 1-299 South 61st Avenue

Address	Company	Years	Business Type
201 South 61st Avenue			
	Vinyltech Corp	2004-2010, 2012-2013	Polyvinyl Chloride Pipe
	Vinyltech Inc	1983-1984, 1986-2003, 2011	Polyvinyl Chloride Pipe

Table A.9
City Directory Results – 600-1099 North 61st Drive

Address	Company	Years	Business Type
627 North 61st Drive			
	D&C Pest Control	1988	Pest Control
836 North 61st Drive			
	Family Business	2004-2005	Undetermined

Table A.10
City Directory Results – 800-1099 North 62nd Avenue

Address	Company	Years	Business Type
846 North 62nd Avenue			
	Sunscape Homes	1983-1984, 1986	Homes
1023 North 62nd Avenue			
	A-Sea Kruiise Spcl	1993-1994, 1996	Undetermined

Table A.11
City Directory Results – 10-1299 North 63rd Avenue

Address	Company	Years	Business Type
30 North 63rd Avenue			
	A One Asphalt	1996	Asphalt Services
	Aero Concrete Cont	1988-1992	Concrete Services
	Radiographix	1988	Undetermined
	TSR Contracting	1993-1999, 2001-2003, 2005, 2008, 2010-2013	Contracting

Table A.12
City Directory Results – 22-299 South 64th Avenue

Address	Company	Years	Business Type
36 South 64th Avenue			
	Urban Pest Control	1981-1984, 1986-1989	Fumigant Production and Formulation
44 South 64th Avenue			
	Andrew Williams	1978-1979	Undetermined
66 South 64th Avenue			
	James M Veach	2005-2006	Undetermined
109 South 64th Avenue			
	Seth Garner Drywall	1973	Drywall Services
122 South 64th Avenue			
	Western Auto Wreckers	1966-1969	Auto Dealers and Service
212 South 64th Avenue			
	Lee Berst Auto Parts	1973, 1975, 1978-1979, 1981-1984, 1986-1995	Auto Parts
	Western Auto Wreckers	1971, 1973, 1975-1979, 1981-1984, 1986-1995, 2006-2008	Auto Dealers and Service
225 South 64th Avenue			
	Bobs Sewer&Drain	1990-1991	Sewer & Drain
	Vasquez Lauro & Estela	2007	Undetermined

Table A.13
City Directory Results – 2-299 South 64th Drive

Address	Company	Years	Business Type
29 South 64th Drive			
	K&B Doors & Openers	1999, 2001-2003	Doors & Openers

Table A.14
City Directory Results – 103-123 South 65th Drive

Address	Company	Years	Business Type
115 South 65th Drive			
	Sky Piece Productions LLC	2006	Undetermined

Table A.15
City Directory Results – 104-522 North 66th Lane

Address	Company	Years	Business Type
506 North 66th Lane			
	Meak Lingerie	2007	Lingerie

**Table A.16
City Directory Results – 6-899 North 67th Avenue**

Address	Company	Years	Business Type
6 North 67th Avenue			
	Team Eclipse LLC	2009	Undetermined
12 North 67th Avenue			
	Churchs Bump Truck	2012	Undetermined
	Welbilt Const Co	2000	Construction
102 North 67th Avenue			
	AZ Hoof Trimming	2004, 2006-2007	Hoof Trimming
125 North 67th Avenue			
	American Distributors Inc	2003, 2005, 2008, 2010	Distribution
6 North 67th Avenue			
	B&R Building	2003, 2007, 2009-2012	Construction
	Bradley Wholesale Office Equipment C	2006	Office Equipment
	CVS Caremark Distribution Ctr	2010	Distribution
	F Star 67 th Ave LLC	2009	Undetermined
	Facs Records Center	2005-2007, 2009	Records Services
	Goodman Manufacturing Co	2009, 2011-2012	Manufacturing
	Target Commercial Interiors	2010-2012	Commercial Interiors
	Walsh Brothers Office Env	2005, 2008-2009	Office Furniture
	Walsh Brothers Warehousin	2003, 2005, 2008	Warehouse
Suite 1	Cintas	2012-2013	Work Uniforms
Suite 4	A&M Business Interior Services	2012-2013	Business Interiors
Suite 5	Quietflex	2003-2008, 2010	Manufacturing
211 North 67th Avenue			
	LP Electric	1982-1984	Miscellaneous Degreasing Operations
221 North 67th Avenue			
	Sun Estrella	2006	Undetermined
500 North 67th Avenue			
	The Dayton Co	1975	Undetermined
	LMB Industries	1991	Undetermined
	R Miles & Associates	1992-1993	Undetermined

**Table A.17
City Directory Results – 14-2211 South 67th Avenue**

Address	Company	Years	Business Type
28 South 67th Avenue			
	Mayco Truck Leasing	1983	Fleet Maintenance
36 South 67th Avenue			
	Fame Cattle Co Feed Yd	1964	Cattle Feed Yard
112 South 67th Avenue			
	Sixty-Seventh Avenue Auto Wrecking	1964	Auto Dealers and Service
125 South 67th Avenue			
	F Star 67 th Ave	2011-2013	Undetermined
	Sealy	2013	Mattresses
206 South 67th Avenue			
	Juarez Contracting	2010-2011	Contractor
208 South 67th Avenue			
	Juarez Contracting Inc	2008, 2012	Contractor
275 South 67th Avenue			
	F Star 67 Ave	2010	Undetermined
302 South 67th Avenue			
	A1 Materials	2003-2007, 2011-2013	Landscape Rocks and Materials
	Buds Nurseries	1987-1995, 1999	Nursery
	Buds Nursery and Landscaping	2008, 2005	Nursery and Landscaping
	Buds Racing & Rod Parts	2005	Auto Parts
	Buds Second Hand	2005	Undetermined
	Buds Tree Service	2004-2005, 2009	Tree Service
	Martin Racing ENT	1987-1997, 1999-2003	Fleet Maintenance
304 South 67th Avenue			
	A1 Materials	2004-2005	Landscape Rocks and Materials
	Arizona Pre Owned Quality Auto	2006	Used Autos
	BHSW Genl Contrng Co	1971, 1973, 1975	Lawn Services

Table A.17 (continued)
City Directory Results – 14-2211 South 67th Avenue

Address	Company	Years	Business Type
307 South 67th Avenue			
	Buds Lawn Equip Rprg	1981-1984, 1986-1988	Manufacturing Operations
	Buds Nurseries	1981-1984, 1986	Fumigant Production and Formulation
	Intermountain Transp	1979	Fleet Maintenance
	Kens Custom Diesel	1979-1980, 1982-1984	Auto Repair
	Martin Racing ENT	1981-1984, 1986	Racing Enterprises
	Pancho Villa Auto Sales	2011-2013	Auto Sales
	Petco Inc Interest	1986-1991	Pet Supplies
	Porta-John Corp	1975, 1978-1979	Fleet Maintenance
	Powerscreen of AZ	1996-1997, 1999-2003	Material Processing Equipment
	Powerscreen SW Inc	1995-1997, 1999-2003, 2005-2006	Material Processing Equipment
	Steere Tank Lines	1992	Tank Transportation
	TAC Transportation	2003	Transportation
	United Merchants	1971	Undetermined
Suite A	Apa Auto Body LLC	2004-2009	Auto Body Shop
Suite B	East Jordan Iron Works Inc	2003, 2006-2009	Iron Works
402 South 67th Avenue			
	A1 Materials	2003, 2010	Landscape Rocks and Materials
425 South 67th Avenue			
	Data Packaging Corp	1975-1982, 1984, 1986-1987, 1993	Shipping and Packaging
	I-Tek	1989	Undetermined
	Lamberton Indsts	1990-1991	Undetermined
	Maidware Prdcts	1992-1995	Undetermined
	PW Eagle Inc	2007, 2009	PVC and PE Piping
	PW Pipe	2002-2003	Piping
	Uponor Aldyl Co Inc	1999-2001, 2004, 2006-2008	Piping

Table A.17 (continued)
City Directory Results – 14-2211 South 67th Avenue

Address	Company	Years	Business Type
425 South 67th Avenue			
	Uponor Phoenix Co	1996-1997	Plastic Piping
	US Poly Co	2009	Sealants, Coating, Adhesive, Asphalt, and Polymer Products
	Watkins Shepard Trucking	2006	Transportation
440 South 67th Avenue			
	Crane & Hayes Trucking Co	1969, 1975-1984, 1986-1993	Transportation
	Crane Trucking	1994	Transportation
	Jensen Trucking	1995-1996	Transportation
	Watkins Shepard Trucking	2001-2005, 2009	Transportation
520 South 67th Avenue			
	Dunn Edwards	2011-2013	Painting
710 South 67th Avenue			
	California Multimodal Inc	2010-2013	Transportation
	Sc Fuels	2011-2012	Fuel Services
	TCI Truck Leasing	2009-2013	Truck Leasing
	Transportation Concepts Inc	2009	Transportation
840 South 67th Avenue			
	Nephron Pharmaceuticals Company	2011-2013	Pharmaceuticals
910 South 67th Avenue			
	Arizona Hardwood	2011-2013	Hardwood Flooring
	Arizona Hardwood Floor Supply	2012-2013	Hardwood Flooring
930 South 67th Avenue			
	Arizona Discount Movers	2010-2013	Moving Services
950 South 67th Avenue			
	SME USA Inc	2013	Electric Motor Manufacturer and Distributor
1408 South 67th Avenue			
	Abrasive Sandblasting	2002	Sandblasting

Table A.17 (concluded)
City Directory Results – 14-2211 South 67th Avenue

Address	Company	Years	Business Type
1410 South 67th Avenue			
	Bobs Gas & Dsl Repr	1982	Auto Repair
	Dreys Lvstck Trnsp	1975, 1978-1979, 1982, 1984	Fleet Maintenance
	Henndz Constrctn MS Schl Ins P	2004	Construction
	Hernandez Pipeline LLC	2010	Piping
	LP Rent Fence	2005	Fencing
	LP Steel Industries Inc	2004-2006	Steel Industry
	MS Hernandez Construction Inc	2000-2003, 2005-2009	Construction
	Rays Burrito Co	2010	Food Services
1616 South 67th Avenue			
	Western Sales Management Inc	1991-1997, 1999-2013	Auctioneers
1617 South 67th Avenue			
	Destino Electric	2005-2007	Electric Services
	Navajo Marketing	2008	Marketing

**Table A.18
City Directory Results – 800-899 North 67th Drive**

Address	Company	Years	Business Type
824 North 67th Drive			
	Wayne S. Brewer	2006	Computer System Design

**Table A.19
City Directory Results – 1-6999 North 69th Avenue**

Address	Company	Years	Business Type
115 North 69th Avenue			
	Circle T Transportation	2010, 2013	Transportation
	M&O Trucking	1987-1990	Transportation
155 North 69th Avenue			
	Gonzales Wrought Iron Inc	2005	Wrought Iron
	Sunstates Iron Fence & Gate Co	2005-2006	Iron Fences and Gates
1809 North 69th Avenue			
	Moorish Manor MSC	1986	Undetermined
2231 North 69th Avenue			
	Phoenix Woodwright	2006	Woodworking
	Yockey Laura	2006	Undetermined
2409 North 69th Avenue			
	GA Maintenance	2010	Landscaping
2933 North 69th Avenue			
	Maypen LLC	2006	Undetermined
3055 North 69th Avenue			
	Daisys Flowers & Crafts	2005-2006	Flowers and Crafts
3301 North 69th Avenue			
	FE Gilbert	2007	Fleet Maintenance
3645 North 69th Avenue			
	A-1 Affordable Drywl	1984	Drywall Services
	Graphic Flow Technology	2006	Fire Sprinkling Technology
	Prof Refrig Svcs	1986	Refrigeration
	Rm Cohen Rev	1988	Undetermined
Suite 43	Active Printing & Graphic LLC	2006	Printing and Graphics

Table A.20
City Directory Results – 1-99 South 69th Avenue

Address	Company	Years	Business Type
11 South 69th Avenue			
	Gilbert FE Trucking	2004-2005	Transportation
19 South 69th Avenue			
	FE Gilbert	2007	Transportation

Table A.21
City Directory Results – 6511-6924 West Adams Street

Address	Company	Years	Business Type
6632 West Adams Street			
	Color Décor LLC	2008	Undetermined
6908 West Adams Street			
	1 st Choice Pallets	2008-2013	Pallets
6921 West Adams Street			
	Flecks Discount Stamps	2004-2005, 2007	Stamps

Table A.22
City Directory Results – 6101-6999 West Beatrice Street

Address	Company	Years	Business Type
6846 West Beatrice Street			
	Outwest Contracting Inc	2005	Contracting
	Outwest Heating & Cooling Inc	2005	Heating and Cooling

**Table A.23
City Directory Results – 4703-4931 West Brill Street**

Address	Company	Years	Business Type
4703 West Brill Street			
	A Atlas Mobile Storage	2009	Mobile Storage
	Great Crates Storage	2005, 2007, 2009	Storage Services
	New Flower Market	2008	Flower Market
	Presort Direct LLC	2005	Direct Mail Advertising
	Rugby Building Products Inc	2002-2003, 2005, 2009-2013	Building Products
	Schauer Charles M & Co	2005	Freight Services
	Shayer C M & Co	2002-2003	Undetermined
	Specialty mfg&brkrs	2002-2003	Manufacturers and Brokers
	Stanline	2006	Laminated Plastics
	Zipdirect LLC	2001-2003, 2009-2013	Direct Mail Advertising
Suite 100	Sunflower Farmers Market Distribution	2006-2013	Produce Distribution
Suite 500	Rugby IPD	2004-2009	Building Products
4839 West Brill Street			
	Advantage Concrete Placement Inc	2004, 2009	Concrete Placement
	Advantage General Construction	2007-2009	Construction
	Hardrock Concrete Placement Co	2001-2003, 2008, 2010	Concrete Services
4931 West Brill Street			
	Trainor Glass Co	2010	Special Trade Contractor

**Table A.24
City Directory Results – 6743-6839 West Farmer Road**

Address	Company	Years	Business Type
6901 West Farmer Road			
	Fibermold Inc	1986-1987	Fiber Molding

**Table A.25
City Directory Results – 4301-4398 West Fillmore Street**

Address	Company	Years	Business Type
4337 West Fillmore Street			
	Air Ducts Products Inc	2005-2007-2013	Air Ducts
	Alloy Piping Prodc	1993-1995	Piping
	Cunningham Distr	1984, 1986-1991	Distribution
	J Mark Inc	1997-2003, 2009	Distribution
	Jacobson Wrhse Co	1996	Warehouse
	Patrick Industries Inc	2006-2007, 2009	Manufacturing of Building Products and Materials
	Patrick-J Mark	2000-2003	Manufacturing and Distribution
	Patrick Mark Molding	1997-1999	Manufacturing

**Table A.26
City Directory Results – 6327-6939 West Fillmore Street**

Address	Company	Years	Business Type
6344 West Fillmore Street			
	Kvlicke&Soffa Inds	1981	Undetermined
6414 West Fillmore Street			
	Building Budget Sv	1995	Undetermined
6528 West Fillmore Street			
	Blw Remodeling	2005-2008	Remodeling
6602 West Fillmore Street			
	AE And Sons Pool Plastering LLC	2006-2007, 2009	Pool Plastering
6607 West Fillmore Street			
	Cured Clueless LLC	2006-2007	Undetermined

**Table A.27
City Directory Results – 5901-6999 West Garfield Street**

Address	Company	Years	Business Type
5926 West Garfield Street			
	Nailforum	2005	Undetermined
6019 West Garfield Street			
	Saenz Marisol	2005	Undetermined
6418 West Garfield Street			
	Helping Hand Technlgy Srvc LL	2005	Undetermined
6431 West Garfield Street			
	Temporary Tattoos	2005	Tattoos
6810 West Garfield Street			
	Poster Sized Photos & Enlargement	2005	Photo Enlargement
6835 West Garfield Street			
	Borunda Industries	1992	Undetermined
6840 West Garfield Street			
	Affordable Repair Service	2005	Repair Service
6844 West Garfield Street			
	Affordable Repairs	2010	Repair Service

**Table A.28
City Directory Results – 6602-6638 West Hayes Street**

Address	Company	Years	Business Type
6611 West Hayes Street			
	Doodlebugs & Dragonflies LLC	2008, 2010	Extermination

**Table A.29
City Directory Results – 6605-6637 West Johnson Street**

Address	Company	Years	Business Type
6608 West Johnson Street			
	Hoebeke Yves	2011-2012	Undetermined

**Table A.30
City Directory Results – 4301-5035 West McDowell Road**

Address	Company	Years	Business Type
4315 West McDowell Road			
	Sansom Repair & Equipment LLC	2008	Repair and Equipment
4335 West McDowell Road			
	Automobile Parts & Supplies	2011-2013	Auto Parts
	Autozone	2007-2010	Auto Parts
4547 West McDowell Road			
	AZ Dist Council Carpen	2009	Carpentry Council
	Carpenters	2005	Carpentry
	Carpenters Loca	2009	Carpentry
	Carpenters Local 1914	2007, 2011-2013	Carpentry
	Industrial	2010	Undetermined
	Millwrights & Machinery Erectors Loca	2005, 2009	Millwrights & Machinery Erection
	Millwrights Local Union No 1914	2007-2009	Millwrights
	Southwestern Regional Council of Car	2005, 2010-2013	Carpentry
Suite 2	Carpenters Local 1506	2008, 2010	Carpentry
4547 West McDowell Road			
Suite 5	Carpenters Apprenticeship & Training	2008-2009, 2011-2013	Carpentry
4625 West McDowell Road			
	Alliance Supply International Inc	2006	Supply Services
	Palo Verde Cabinet Co	2005-2006, 2009	Cabinetry
Suite 110	Custom Bilt Metals	2005-2006, 2008-2010	Metal Services
Suite 160	Quick Silver Express Courier	2010-2013	Courier
Suite 170	Epic Custom Kitchens Inc	2006, 2008	Kitchens
	Van Victoria LLC	2008	Undetermined
Suite 190	City Electric Supply	2008-2009	Electric Supply

Table A.30 (continued)
City Directory Results – 4301-5035 West McDowell Road

Address	Company	Years	Business Type
4635 West McDowell Road			
	ABS Manufacturing	2006	Manufacturing
	Butler Co The	2009, 2011-2013	Veterinarian
	Cmpttn Audio Works	2003	Audio Works
	Distributech	2010-2013	Distribution
	Fellers Inc	2008-2013	Vinyl Wraps for Autos
	Shurkote LLC	2006	Stucco Products
	Top Ten Partners	2004	Undetermined
	Wa Butler Co	2006	Medical Supplies
	Rieskamp Equipment Co	2004, 2006, 2008-2010	Equipment Services
Suite 130	Butler Animal Health Supply	2006, 2010	Animal Health Supply
Suite 140	Golden State Overnight	2005-2006, 2008-2010	Transportation
Suite 150	Magsplus	2004-2005, 2009	Professional Services
	Primedia Inc	2008	Publishing and Printing
Suite 160	Multimedia Fabrication Inc	2005-2006, 2008-2009	Multimedia Fabrication
Suite 180	Volterra Archtctrl Prdct LLC	2004	Architectural Products
4645 West McDowell Road			
	Global Accessories Inc.	2005, 2009	Auto Accessories
	Innovative Environmental	2003, 2008	Environmental
Suite 101	Kone	2008-2013	Elevators and Escalators
Suite 102	Paramount Restaurant Supply	2009-2013	Restaurant Supply
Suite 103	Innovative Environmental Products In	2005, 2008	Environmental Products
	The Mirachem Corporation	2003, 2005, 2008-2009, 2011-2013	Cleaning Products
Suite 104	Atrs Arizona	2011-2013	Recycling/Donations
	Factory Motor Parts Co	2006, 2008	Auto Parts
Suite 106	Solar Industries	2003, 2005-2006, 2008-2009, 2011-2013	Solar Industries

Table A.30 (continued)
City Directory Results – 4301-5035 West McDowell Road

Address	Company	Years	Business Type
4655 West McDowell Road			
	Airtron Heating & Air Conditioning	2008, 2011	Heating and Cooling
	Airtron LP	2009	Heating and Cooling
	Getmex Products LLC	2009	Products
	Industrial Technology Inc	2002-2003, 2006, 2008	Industrial Technology
	It Plastics	2006	Plastics
	JZ Office Installations	2012-2013	Office Installations
	King International Inc	2002-2003	Undetermined
	Paramount Restaurant Supply Group	2013	Restaurant Supply
	Portion Pac Inc	2006	Detergents and Floor Finishes
	Ron Brocks	2012	Heating and Cooling
	Sherwin Williams Floorcovering	2013	Floorcoverings
	SIP Structures LLC	2009	Structures
	Sowesco West	2002-2006, 2009	Welding Equipment
Suite 102	El Grupo De Ventas The Sales Group	2009-2011	Sales
Suite 106	Sherwin Williams	2001-2003, 2005-2006, 2009-2012	Painting
Suite 107	Liberty Transport	2011-2012	Transportation
Suite 108	Integrated Trading Corp	2005-2006	Undetermined
Suite 110	Food Services West Inc	2009-2010	Food Services
4845 West McDowell Road			
	Instituto Vive	2011	Undetermined
	Medinas Carpet Remodeling	2010	Carpet Remodeling
	Quality Car Care Products of AZ	2012-2013	Auto Care Products
	Sodexo	2011-2013	Commercial Laundry
	Tropical Nut and Fruit	2011-2013	Fruit and Nut
Suite 120A	All Kleen LLC	2009-2010	Cleaning Services
4855 West McDowell Road			
	Desertview Logistics	2012-2013	Logistics
	Eurest Services	2012-2013	Janitorial Service

Table A.30 (concluded)
City Directory Results – 4301-5035 West McDowell Road

Address	Company	Years	Business Type
4855 West McDowell Road			
	International Dairy Distributers LLC	2013	Dairy Distribution
	Sunmex LLC	2011-2013	Medical Equipment and Supplies
	Tilton Energy Solutions	2009	Energy Solutions
	Wood Bros Industries	2011	Water Treatment Products
Suite 30B	Liberty Transport	2009-2010	Transportation
Suite 70	Scale Center of Arizona	2011-2013	Scales
Suite 80	ME Simpson Co	2013	Water Distribution and Wastewater Collection
Suite 90	Inline Inc	2010-2013	Automotive Machine Shop
Suite 120B	Wood Brothers Industries	2010	Water Treatment Products
Suite 140	El Grupo De Ventas The Sales Group	2011-2013	Sales
	Getmex Products LLC	2010-2011	Products
	Southwest Post Tension Sy	2008-2009	Concrete Services
4861 West McDowell Road			
	Bre ESA P Portfolio	2008	Undetermined
	ESA P Prtfolio Oper LSS Inc	2009	Undetermined
	Munlake Contrctrs	1999	Contractors
4901 West McDowell Road			
	Eaton Cattle Co Breeders	1964-1965, 1967	Cattle Breeding
4929 West McDowell Road			
	BSD Ventures LLC	2009	Undetermined

**Table A.31
City Directory Results – 5901-6999 West McKinley Street**

Address	Company	Years	Business Type
6111 West McKinley Street			
	Salt Creek Cnstrtn	1990	Construction
6138 West McKinley Street			
	Signs Alexander	1991-1992	Signs
6149 West McKinley Street			
	Drts Systems LLC	2005-2006	Undetermined
6325 West McKinley Street			
	Ken Pro Roofing	1991	Roofing
	Key Remodeling	2010	Remodeling
6414 West McKinley Street			
	Barnella & Son Constr	1992	Construction
	Dart Vly Rofng Srv	1986	Roofing
6420 West McKinley Street			
	Russ Lemons Roofg	1986-1989, 1992-1994, 2010	Roofing
6509 West McKinley Street			
	McDavid Constrctn	1993	Construction
6526 West McKinley Street			
	Arizona Kustm Concepts	2005-2006, 2010	Automotive Mechanic
6533 West McKinley Street			
	Oudin Whitey	2005-2006, 2010	Construction
6550 West McKinley Street			
	Elite Illuminations	2005-2006	Lighting
6752 West McKinley Street			
	Froemming Speedmtr	1978, 1980	Undetermined

**Table A.32
City Directory Results – 5901-6636 West Monroe Street**

Address	Company	Years	Business Type
5923 West Monroe Street			
	Maximet	2006	Electroplating/Brazing Services
5925 West Monroe Street			
	Carris Reels Inc	2005-2006	Reel Manufacturing
	Century Mfg Inc	1973	Manufacturing Operations
	Dip Braze Inc	1987-1997	Brazing Services
	EMW Associates	1994-1997	Undetermined
	Great Amer Shoeshn	1980	Shoe Shining
	Jacks Tire & Oil Management Co Inc	2006-2013	Tire and Oil Management
	Karsten Brazing	1984	Brazing Services
	Kustum Kraft Mobile Homes	1965	Manufacturing Operation
	Lockhart Ind	1994-1995	Industrial
	Maximet Corporation Metal Joining	1976-1983, 1986-2001	Brazing Services
	Namco Industries	1967	Manufacturing Operation
	Phoenix Metalcraft	1978	Metal Works
	Sphere Industries	1975	Manufacturing Operation
	West Wyre Co Wire Rope & Cable Dlrs	1968-1969	Wire and Cable
5926 West Monroe Street			
	Aim Dedicated Logistics	2003, 2005-2006, 2007-2009	Logistics
	Aim Nationalease	2000-2013	Logistics
	AZ Grt Dane Trlr	1984	Undetermined
	Beall Trirs Az	1982-1984	Undetermined
	CT Leasing Inc	1986-1989	Logistics
	Dedicated Trans	2002, 2004	Logistics
	Lady Bug Truck Brk	1978-1979	Undetermined
	MCDonnell Dgls Trk	1990-1992	Trucking
	Northcott Inc Trucking	1975-1979	Fleet Maintenance
	Refrdrtd Nationals	1993-1999, 2009	Refrigeration

Table A.32 (concluded)
City Directory Results – 5901-6636 West Monroe Street

Address	Company	Years	Business Type
6025 West Monroe Street			
	Adamo Thomas La Daniel L	2004-2006	Undetermined
	Alarm Crew The	2007, 2009	Alarms
	Allstate Electric Motor Co	2000-2004, 2009-2013	Electric Motors
	Allstate Welder Parts & Repair	2004, 2009-2010	Welding Services
	Allstt Parts & Svc	1999	Parts and Repair
	Baker Machinery	2001	Machinery
	Collgville-Imgnrng	1994-1997	Imagineering
	Creative Images	1981-1984, 1986-1996	Undetermined
	Far East Serv	1986-1997	Undetermined
	Hobart Parts & Svc	1999, 2001-2003	Parts and Services
	Imagineering Inc	1981-1984, 1986-1994	Imagineering
	Lincoln Welder Parts & Svc	1999-2003, 2010	Welding Services
	LJ Liff & Assoc	1994-1996	Undetermined
	Miller Parts & Svc	1999-2003	Parts and Services
	Zoo Limited	1981-1983	Undetermined
6609 West Monroe Street			
	Murphy Integrated Systems LLC	2008	Audio and Security Systems

**Table A.33
City Directory Results – 4551-4802 West Polk Street**

Address	Company	Years	Business Type
4633 West Polk Street			
	Case Furniture & Design LLC	2007	Furniture
	McKesson Corp	2007	Pharmaceutical Services
	National Brands Inc	1982-1984, 1986-2003, 2006-2012	Manufacturing Operation
	Oww Liquidators LLC	2007	Liquidation
	Sharenet Communications Co	2004-2012	Communications
4645 West Polk Street			
	Case Furniture & Design LLC	2006, 2008	Furniture
	Case Products LLC	2002-2003, 2005	Undetermined
	Ekco Housewares	1995	Housewares
	McGrgr Printg Crp	1997-1998	Printing
	McKesson Corp	2006, 2008-2009	Pharmaceutical Services
	Milton Brown	1991	Undetermined
	Office Warehouse	2002-2003, 2005-2006, 2010	Office Warehouse
	Oww Liquidators	2006, 2009	Liquidation
	Rawson Drug & Sundry	1988-1994	Drug and Sundry
4741 West Polk Street			
	Armex Foods	1983	Fleet Maintenance
	Aspen Distrbtn	1983	Fleet Maintenance
	Auto Shack	1988-1989	Auto Parts
	Autozone	1991-1992	Auto Parts
	Desert Cage Co	1995-1996	Cages
	Digital Distributn	1984, 1986	Digital Distribution
	Fiberchem Inc	1984	Tank Insulation
	Hart Chemicals Inc	2009	Chemicals
	Kjp Inc	1999-2003, 2007, 2010	Lightning Rod Installation
	Pfx Pet Supply AZ	1996-2003	Pet Supplies
	Phoenix Aspen Grp	1983	Undetermined
Suite 3	Iams Co	2005, 2009	Pet Nutrition
Suite 4	Chris Fischer Productions	1995-2011	Woodworking

Table A.33 (concluded)
City Directory Results – 4551-4802 West Polk Street

Address	Company	Years	Business Type
4801 West Polk Street			
	Ariz Freeport WR	1990-1991	Warehouse
4802 West Polk Street			
	Arizona Records Storage Center	2012-2013	Storage
	Ceramtech	2007	Electrical Feedthroughs
	Sears	2007-2009	Warehouse
	SW Freeport Warehouse	1992-1993, 1996-2000	Warehouse
Suite 1	Freeport Logistics Inc	2001-2009, 2011-2012	Logistics

Table A.34
City Directory Results – 4320-4910 West Roosevelt Street

Address	Company	Years	Business Type
4405 West Roosevelt Street			
	Corbi Plastics LLC	2010-2013	Plastics
	Total Whsng Inc	2000	Warehouse
4411 West Roosevelt Street			
	Cmmon Mkt Wrhse	2000-2002	Warehouse
	Greatwide Distribution Lgstcs	2010	Logistics
	Rexam	2006-2007, 2009	Consumer Packaging
	Total Central Warehousing Services	2008	Warehouse
	Total Warehousing Inc	2000-2009	Warehouse
	Updike D I	2012	Transportation

Table A.35
City Directory Results -5901-6999 West Roosevelt Street

Address	Company	Years	Business Type
6527 West Roosevelt Street			
	Field Mntnc & Repair	2001	Maintenance and Repair
6543 West Roosevelt Street			
	Ezras Any Drain	2005	Septic and Drain Services
6615 West Roosevelt Street			
	Breeders Fd Svc	1987-1988	Animal Feed Service
	Nohemi Gutierrez	2004	Undetermined
6645 West Roosevelt Street			
	Arrowhead Services	1987	Undetermined
	CF Arrowhead Trkld	1987	Undetermined
6801 West Roosevelt Street			
	Kitchen Designs	1987-1988	Kitchen Design

Table A.36
City Directory Results - 6606-7099 West Taylor Street

Address	Company	Years	Business Type
6847 West Taylor Street			
	Dial Garv	2004	Undetermined
6901 West Taylor Street			
	Chadco Cover Corp	1989-1994, 2007	Undetermined
6919 West Taylor Street			
	RNS Awning Co Inc	2007	Awnings
	Taylor Property II of The S	2004	Undetermined
6937 West Taylor Street			
	Ground Zero Trenching LLC	2008	Trenching
6938 West Taylor Street			
	Ground Zero Trenching LLC	2008	Trenching
7001 West Taylor Street			
	D&D Trucking LLC	2005-2007	Transportation
7037 West Taylor Street			
	Catering Griselle	2008, 2010	Catering Services

Table A.37
City Directory Results – 4550-4802 West Van Buren Street

Address	Company	Years	Business Type
4720 West Van Buren Street			
	Architectural By Outwater LLC	2006-2009	Architectural Products
	Bartlett Trucking	1984, 1986-1987	Transportation
	Burnham Service	1998-2001	Transportation
	Electric Beds AZ	2002-2003	Undetermined
	Hi Tech Cargo	1997	Cargo
	Hughes MRO LP	2006	Undetermined
	Hughes Supply Inc	2002-2003, 2007-2009	Undetermined
	Leaseway Logistics	1997-1998	Logistics
	Los Potros Distribution Center	2013	Distribution
	Mattress Manufacturing/Bed Direct	2002-2003, 2005	Mattress Manufacturing
	Orak Décor	2006	Undetermined
	Outwater Plastic Industries	1997-2003, 2005-2008, 2010-2013	Plastics
	Penske Logistics	1999	Logistics
	Ray Construction	1982	Construction
	Triangle Entrprs	1983-1984	Undetermined
	Triangle Gallries	1983-1984	Undetermined
	West Van Buren Phoenix LLC	2006-2007	Undetermined
	Xerox Corp	2003	Document Management and Printing Equipment
Suite 1	Outwater Plastics	2009, 2011-2013	Plastics
Suite 4	Timber Mountain Hardwoods Inc	2006-2011	Hardwood
Suite 8	Sullivan Moving & Storage Co	2002-2003, 2005-2007, 2010	Moving and Storage
	Sullivan Transportation Systems	2005, 2009	Transportation

Table A.38
City Directory Results – 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
5715 West Van Buren Street			
	Gardner Dev	2001	Undetermined
5801 West Van Buren Street			
	BMC West Corp	2006-2009	Building Supplies
	Gateway Tire & Wheel	2008-2013	Tires and Wheels
	Rinmex Inc	2013	Undetermined
	Royal Door Corp	2001-2003	Doors
5825 West Van Buren Street			
	Ross Ariel Equipment	2007-2009	Equipment
	Ross Equipment Rentals & Sls	2007, 2009-2013	Equipment
	Ross Outdoors	2009	Pro Archery Store
5879 West Van Buren Street			
	Circle K Foods	1988-2003, 2005-2010	Gas Station
5925 West Van Buren Street			
	Continental Wholesale Water	2006	Water
	Desert Ice Men Inc	1994	Air Conditioning and Refrigeration
	FAB Food Group Inc	2006-2007	Food
	Flor De Michoacan	2011	Ice Cream
	Glacier Distrb	2003	Distribution
	Glacier Ice Co	1978-1984, 1986-1990	Air Conditioning and Refrigeration
	Glacier Prods Inc	1983	Fleet Maintenance
	Ice King	2012-2013	Air Conditioning and Refrigeration
	The Ice Wagon	1994-2000	Air Conditioning and Refrigeration
	M&M Distributing Inc	2003-2005, 2007-2011	Distribution
	Mission	2004	Undetermined
	Phoenix Pckgd Ice	1999-2002	Air Conditioning and Refrigeration
	Schade Distributing	2010	Distribution
	Southwestern Ice	1994-1999	Air Conditioning and Refrigeration
6025 West Van Buren Street			
	Ameripride Linen and Apparel Service	1999-2001, 2003, 2005-2009	Linen and Apparel Services
	Ameripride Services Inc	2009-2013	Linen and Apparel Services

Table A.38 (continued)
City Directory Results - 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6121 West Van Buren Street			
	Daniels Moving & Storage Inc	2009	Moving and Storage
	Wheels Inc	2005-2008	Wheels
6131 West Van Buren Street			
	All Svc Move Inc	1996	Moving
	At your door self stor Phnx Ll	2005	Self Storage
	Daniels Moving & Storage Inc	1996-2004, 2009-2013	Moving and Storage
	Datasafe Records Retention	2010	Records
6215 West Van Buren Street			
	Aeropup Trailers LLC	2005-2006	Trailer Manufacturing
	Crprf Publication	1996-1997	Publication
	J&W Manufacturing Inc	2001-2003, 2005-2006	Manufacturing
	JR Specialists	1998-2000	Undetermined
	Palo Verde Entprs	1982-1984, 1986-1994	Undetermined
	R Quad LLC	2007	Undetermined
	Steiner Fabrication	1991-1999	Aluminum Fabrication
	Sunflower Sales	1995	Sales
	Swift Transportation Co	1996-1997	Transportation
	Synergy Inc	1999	Undetermined
	Tupperware	1982-1984, 1986-1991, 1992-1996	Plastic Manufacturing
	Wllmtt Industries Inc	2001-2002	Undetermined
Suite A	Food Safety Net Services Arizona LI	2006-2008, 2010-2013	Food Testing
Suite B	Premier Vaneer Stone Products	2010	Stone Veneer
6301 West Van Buren Street			
	MV Nursing Inc	1975-1976, 1978-1980	Nursing
6314 West Van Buren Street			
	Kleck Jack Agricultural Tillage Service Inc	1968-1969, 1976-1977	Fleet Maintenance
6316 West Van Buren Street			
	Centurion Sndblstn	1991	Sandblasting
	Cobbs Sand Blst	1992-1996	Sandblasting
	Crtfd McHncl	1992	Undetermined

Table A.38 (continued)
City Directory Results – 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6316 West Van Buren Street			
	Dump Trucks Inc	1987-1988	Transportation
	Joes Diesel Repair	1989	Diesel Repair
	Kleck Equipment Rebuilders Inc	1975, 1977-1979, 1981-1982, 1984, 1987-1988	Manufacturing Operation
	Kleck Jack Agricultural Tillage Service Inc	1963-1967, 1975, 1980, 1983, 1986	Agricultural Tillage
	Macs Diesel Service	1992	Diesel Service
	Ozzies Trk&Trlr	1988	Truck and Trailer
	Rainbow Demolition	1994-1996	Demolition
	Skippers Cntr Tire	1992-1995	Tire
	SW Machining Eng	1992-2006, 2008-2010, 2012-2013	Machine Engineer
	Western Diesel Repair	1987-1988	Diesel Repair
	Western Equipment Sales Corp Consultants	1964-1969, 1976	Sales
	Western Trck&Trlr	1984, 1986	Truck and Trailer
6323 West Van Buren Street			
	Madera Component Systems	1982-1984, 1986-2003, 2005 2010-2013	Component Systems
	Madera Doors	1986-1997, 1999-2003	Doors
	Madera Wood truss Fab	2004	Wood Truss Fabrication
	Raj Construction	1993-2003, 2005-2009, 2011-2013	Construction
	Sinco Construction	1988-1999	Construction
6330 West Van Buren Street			
	7 Tees Inc	1978-1982	Textile Processing and Manufacturing
	Air Towing	2005, 2007, 2009, 2011-2013	Towing
	Altron	1981-1982	Undetermined
	Charolas Mechanic Shop	2002-2004	Mechanic
	CNR Dollar Store	2003-2010	Dollar Store
	Federated Tires	2007	Tires
	Freymler Trucking	1990-1992	Transportation
	Gomez Auto Repair	2008	Auto Repair
	Gomez Towing	2002	Towing
	Hauser Trucking Business	1965-1969	Fleet Maintenance
	I&R Tires	2000-2009	Tires

Table A.38 (continued)
City Directory Results - 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6330 West Van Buren Street			
	Intl Implmnt & Hrdwr	1983-1984	Hardware
	Jr Brothers Tire Repair	2006-2009	Tire Repair
	Jr Towing	2000, 2004-2005	Towing
	Lopez Auto Sales	2001	Auto Sales
	Los Campesinos	2007	Undetermined
	Magic West Towing	2006-2008	Towing
	Reyes Auto Sales	2002-2009	Auto Sales
	Valentine NRY&LDSC	1975	Undetermined
6331 West Van Buren Street			
	A&J Key Punching Service	1968	Key Punching
	Advanced Plastering Inc	2009	Plastering
	Olive Crown LLC	2007	Undetermined
	Pi Insulation	2009	Insulation
	Spg Construction Inc	2006-2008	Construction
6400 West Van Buren Street			
	Paul's Texaco Service Station	1964-1965	Gas Station
6401 West Van Buren Street			
	Pauls Texaco Serv	1963	Gas Station
6403 West Van Buren Street			
	Garcias Auto & Muffler	2009-2013	Auto and Muffler
	U Haul Co of Oregon	2005	Transportation
	U Haul Co Neighborhood Dealer Westsid	1990-1997, 1999, 2004-2013	Transportation
	U-HI Co Indpdnt	2000-2003	Transportation
	Westside Rentals	1987-1997, 1999-2003, 2005-2009	Rentals
6419 West Van Buren Street			
	May's Manufacturing Co Aluminum	1964	Metal Fabrication and Plating
6420 West Van Buren Street			
	AAA Evaprtv Cooling	1982	Evaporative Cooling
	The Tree Service	1991-1992	Tree Service

Table A.38 (continued)
City Directory Results – 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6420 West Van Buren Street			
Suite A23	Mochos Pinatas	2008	Pinatas
Suite C15	Arizona Metal Building	2005	Metal Building
Suite D11	Penta Water	2004	Water
Suite D20	La Esperanza Pallet Co	2009	Pallets
6425 West Van Buren Street			
	Arts Auto Repairs	1977-1984, 1986-1996, 2009	Auto Repair
	Fernandez Auto RPR	2002	Autos
	Fortis Auto Repair	1997-1998	Auto Repair
	Fronsman Adella M	2006-2008	Undetermined
	Manuel Auto Svc	2000-2001	Auto Service
	Manuels Repair Shop	2005-2006	Repair Shop
Suite A	MHS Auto Repair	2005-2008, 2010-2013	Auto Repair
6430 West Van Buren Street			
	Miss Security Agency	1987	Security Agency
Suite 67	Catering Services By Carlos	2008	Catering
Suite 76	A Torres Transport LLC	2009	Transportation
	Nationwide Vision Center	2005-2008	Vision Center
6434 West Van Buren Street			
	Christensen Trk&Tr	1981-1983	Auto Repair
	Owl Constructors	1982	Construction
Suite 24	Nino Latino	2009	Undetermined
Suite 27	Clean It Up LLC	2007-2008	Undetermined
6445 West Van Buren Street			
	An Ngoc Huynh	2008	Undetermined
	Autos Baratos	2000	Autos
	CJ Automotive	1999-2000	Autos
	Colores Juan	2002	Undetermined
	Com-Tal Inc	1980	Undetermined
	El Zarco Taller Mecanico	2006	Mechanic
	Fikes Commercial Towing	1977-1978	Fleet Maintenance
	Fikes Union 76 Station	1979-1978	Gas Station

Table A.38 (continued)
City Directory Results - 5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6445 West Van Buren Street			
	Gindi Dealers Towing	1978	Fleet Maintenance
	Herrs Body Shop	1983	Auto Body Repair
	Llantera El Rincon	2009	Tires
	Marvins Tire Sale	1984, 1986-1998	Tires
	Paul's Texaco Service Station	1966-1968	Gas Station
	Paul's Union 76 Station	1969, 1973, 1975	Gas Station
	Tire Master	2005	Tires
	W Phoenix Wrecker	1975	Auto Dealers and Service
	Wheel Master	2006-2007, 2009	Wheels
6451 West Van Buren Street			
	El Caprichoso	2004-2006	Undetermined
	HCD Partnership	2008	Undetermined
	Supreme Painting	1975	Paint Operations
	Universal Maint Co	1975	Miscellaneous Degreasing Operations
6455 West Van Buren Street			
	Navia Autobody	2012-2013	Auto Body
6501 West Van Buren Street			
	ARDC Demolition LLC	2009	Demolition
	Rainbow Demolition	2010	Demolition
	United Right Way	2001	Undetermined
6505 West Van Buren Street			
	Hancour Inc	2005, 2009	Undetermined
	Kennys Fleet Serv	1977-1978	Fleet Maintenance
	LA Shannon	1983-1984	Undetermined
6512 West Van Buren Street			
	Apr roofing	1988	Roofing
	Goodbar Refrgctn	1983	Air Conditioning and Refrigeration
	Prock Var	1986	Undetermined
	Russell Htg & Rfgn (#52)	1973	Air Conditioning and Refrigeration
	Western Equip Sales Corp	1971, 1973	Equipment Sales
Suite B	Bens Rooter Sv	1989-2002, 2005, 2008	Plumbing Service

Table A.38 (continued)
City Directory Results -5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6532 West Van Buren Street			
	Copeland MB Hm SPC	1986	Undetermined
	Virgil R Mickelson	1975	Undetermined
Number 2	Camino Vista MHP TIC	2010-2013	Home Improvement
Suite D	Grey Express Service	2009	Transportation
Suite 46	Lopez Vasquez Norma Julieta	2005-2006	Undetermined
6540 West Van Buren Street			
	Gay 90's	1971, 1973	Undetermined
	Van Buren Gray Hound Kennels	1964, 1966-1968	Gray Hound Kennels
6610 West Van Buren Street			
	Abc Computer Services LLC	2010-2013	Computer Services
	Anthem Hardwood Floor	2013	Hardwood Floors
	Arizona Differential	2012	Undetermined
	Arizona Medical & Natural	2010	Health Services
	Arizona Sign & Printing Source Inc	2007	Sign and Printing
	Ascent Aviation Group	2011	Aviation
	Azwe	2012-2013	Undetermined
	Christina Harter MC PC	2009	Undetermined
	Emergency Restoration Experts	2013	Restoration
	Genuine Parts Co	2007	Auto Parts
	Handyman Matters	2011-2013	Handyman Services
	Impact One	2007	Undetermined
	Jumpee Things & More	2010	Undetermined
	K and J Window Covering	2011-2012	Window Covering
	Mathis Exterminating	2013	Exterminating

Table A.38 (continued)
City Directory Results -5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6610 West Van Buren Street			
	MCS	2011-2013	Undetermined
	Neal Kristine Office of	2011-2013	Undetermined
	Qualified West	2009	Property Preservation and Home Inspection
	Ron Brocks	2011-2013	Undetermined
	Seed Research of Oregon	2010	Seed Research
	Sonora Home Health	2011	Health
	T&S Auto Glass	2013	Auto Glass
	Three Hearts Kitchen and Bath	2010	Kitchens and Baths
	Wallys Used Cars	2011	Used Auto Sales
	West USA Realty Premier Property	2012-2013	Property
6613 West Van Buren Street			
	Fiveinfifty LLC	2007	Undetermined
	JT McKinney Co	2004-2007, 2011	Trailer Rentals
	McKinney Trailer Rentals	2004-2010	Trailer Rentals
6707 West Van Buren Street			
	Wacop	1975	Undetermined
6732 West Van Buren Street			
	Mibonne LLC	2006	Undetermined
6805 West Van Buren Street			
	Banner Constn Co	1973, 1975, 1977-1984, 1986-1994	Construction
	ET Juarez Contr	1975, 1978-1984, 1986-1993	Construction
	Juarez Contracting	1998-2002	Contracting
	Little Br Transport	2001-2002	Transportation
	M&L Auto Sales	2004	Auto Sales
6807 West Van Buren Street			
	Century Transportation Sv	1995-2002, 2005	Transportation
	Century Truck Brokers Inc	2004-2005	Truck Brokers
6853 West Van Buren Street			
	Cantlay Tanzola of W Gillette	1973, 1975, 1978-1980	Fleet Maintenance

Table A.38 (concluded)
City Directory Results -5711-7099 West Van Buren Street

Address	Company	Years	Business Type
6853 West Van Buren Street			
	WJ Digby Co Inc	1981	Fleet Maintenance
6915 West Van Buren Street			
	Netvoice POP Techlgy	2002	Technology
	Storer Sable Comm	1984, 1986	Undetermined
7016 West Van Buren Street			
	Carrier Rental Systems	2010, 2012-2013	Carrier Rental
	Nutemp Inc	2006-2011	Heating and Cooling
7020 West Van Buren Street			
	United Rentals	2010	Rentals
7024 West Van Buren Street			
	United Rentals	2007-2013	Rentals
7028 West Van Buren Street			
	Stewart & Stevenson	2009-2013	Oil and Gas Equipment Manufacturing
	Suft Construction Corp	2007	Construction
7037 West Van Buren Street			
	Estenson Logistics	2010-2011	Logistics

Table A.39
City Directory Results - 5901-6099 West Villa Street

Address	Company	Years	Business Type
5916 West Villa Street			
	GSM Flooring	2005	Flooring

Table A.40
City Directory Results – 5701-6999 West Washington Street

Address	Company	Years	Business Type
5711 West Washington Street			
	Advanced Pkg Engrg	1996-2002	Engineering
	Genesis Agrnmcs	1992	Agronomics
	Mar-Bro Fasteners	1989-1990	Fasteners
	Palo Verde Threadn	1995	Threading
	TPS Package Engine	1994-1997	Undetermined
Suite A	Shade n Net of Arizona Inc	2004, 2009-2012	Shades and Nets
5717 West Washington Street			
	Echols Saw&Supplys	1989-1990	Saws and Supplies
	Marbro Manufacturing Inc	1989-2012	Manufacturing
5723 West Washington Street			
	B 4 Fifty LLC	2006-2007	Undetermined
	Milam Glass Co	2009-2013	Glass
	Pima Door & Supply Inc	1989-2008, 2011-2012	Doors
5733 West Washington Street			
	All Sercv Moving	1991-1992	Moving
	Horrall Sales Inc	2002-2005	Manufacturing
	McCune Marine Co	1994-1995	Undetermined
	Merle Horrall Sls	1999-2001	Manufacturing
	Sunrise Carpentry Inc	2006-2007	Carpentry
5743 West Washington Street			
	Allied Plastics Group	2011-2013	Plastics
	AZ Schl Furnishings	1997-2001	School Furnishings
	Cleanroom Sciences Inc	2005, 2007-2008	Cleanroom Consulting
	Desert Extrusion	1991-1996	Extrusion
	Rayco Wood Dsgns	1989	Wood Designs
5939 West Washington Street			
	Carolina Fgt Carr	1984, 1986-2001	Freight Services
	Central Transport	2004-2009	Transportation
	G.I. Trucking	1982-1984, 1986-2001	Transportation
	Superior Fst Frght	1982-1984, 1986	Fleet Maintenance

Table A.40 (concluded)
City Directory Results – 5701-6999 West Washington Street

Address	Company	Years	Business Type
5960 West Washington Street			
	Commercial Acoustics	1993-2007, 2009-2010	Acoustics
	Metal Form Manufacturing Co	1993-2013	Manufacturing
	Rap-N-Tap Pallets	1978, 1980-1984	Pallets
6029 West Washington Street			
	Phoenix Stair	2008-2013	Stair Systems
	Sharon Co Ltd	2005, 2008-2009	Stair Systems
	Sharon Stair Systems	1990-2007	Stair Systems
6031 West Washington Street			
	Amer Excelsior	1989-1993	Foam Manufacturing
6035 West Washington Street			
	Golden Interiors	1983	Interiors
	Kenan Advantage Group	2011-2013	Transportation
	Michaels Irons	1978-1982	Metal Fabrication and Plating – Non-Aluminum
	Phoenix Diesl Repr	1984	Diesel Repair
6045 West Washington Street			
	Beneto Inc	1999-2001, 2003, 2005-2009, 2011-2013	Aircraft Sales and Leasing
	Beneto Tank Lines	2004-2005	Trucking
	Bobcat Express	1991	Transportation
	Captain Freight	1988-1995	Freight
	E&I Fast Freight	1990	Freight
	Kag West	2010	Transportation
	Package Dlvly Exprs	1991	Transportation
	Sun Valley Express	1982, 1984, 1986	Fleet Maintenance
6101 West Washington Street			
	Kin Properties Inc	2012-2013	Commercial Real Estate
	Peytons Phoenix	2006-2007, 2009	Transportation
6104 West Washington Street			
	Advantage Logistics	2011-2013	Logistics
	Advantage Logistics Services	2011-2012	Logistics
	Atlas Cold Storage USA Inc	2004-2009	Cold Storage
	Blessing Seafood Inc	2006, 2008-2009	Food/Beverage
	Progressive Logistics Svc	2010	Logistics

APPENDIX B

**SOURCE DOCUMENTS
(PROVIDED ON DVD)**

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APPENDIX B

SOURCE DOCUMENTS



**ADEQ Contract No.
13-048324
ADEQ Task Assignment
No. 14-055448**

**Draft Final Industrial Survey No. 4
West Van Buren Area WQARF Registry Site
Phoenix, Arizona**

March 2014