



**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

**KENTUCKY DIVISION OF WATER
WELLHEAD PROTECTION PLAN
5-YEAR UPDATE FORM**

Update Requirements:

This form should be used for the 5-year update submittal requirements of the Kentucky Wellhead Protection Program (WHPP) in compliance with 401 KAR 4:220 and SDWA Section 1428. Once the form is complete, please sign and send to:

Kentucky Division of Water
Watershed Management Branch
Attention: Allan Shingleton
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601 or allan.shingleton@ky.gov

For assistance contact Allan Shingleton at (502) 782-6907 or allan.shingleton@ky.gov

System Information:

PWS Name: **Arlington Water and Sewer**

PWS ID Number 0200009

AI Number: Click here to enter text.

Contact Person/Title: **David Garrett**

Mailing Address: **P.O. Box 399 Arlington, KY 42021**

Telephone: **(270) 655-2261** Email: **davidgarrettcityofarlington@gmail.com**

System Type*: **Community**

*Community; Non-Transient/Non-Community; Transient/Non-Community

Source*: **Wells** *Well(s) or Spring(s) and total number of each

County: **Carlisle** ADD: **Purchase**

WWD Permit #: **0714** Permitted Amount (mgd): **0.055**

Population Served: **460**

Overall Susceptibility Rating*: **High** *High, Medium or Low

WHPP Changes Summary: **No changes**

Update Form Instructions:

Please complete each section that applies to any system or WHPP updates and submit the supporting documentation. Please indicate if a section is not applicable to this update. **Sections 4, and 6 through 11 are required for every 5-year update.**

Please sign certification on the last page upon completion.

Section Updates:

Section 1: Treatment Plant

There has been no change to the treatment plant since the previous WHPP submittal. A copy of the county highway map with the marked location of the treatment plant has been attached.

Section 2: Water Withdrawal and Water Quality

There have been no changes to either water withdrawal or water quality since the previous WHPP submittal.

Section 3: Change or Modification to Groundwater Source

There have been no modifications to Arlington’s water supply wells since the previous WHPP submittal. Copies of the Well Inspection Records are attached.

Section 4 (REQUIRED): Planning Team

Leader:

David Garrett – General Manager

Team Members:

Bobby McGee - Mayor
Claudia Fernandez - Clerk

Section 5: WHPA Delineation

There have been no changes to the WHPA delineation since the previous WHPP submittal.

Section 6 (REQUIRED): WHPA Map

Copies of the WHPA map and the Contaminant Source Inventory (CSI) map have been attached.

Section 7 (REQUIRED): Contaminant Source Inventory

There were no changes to be made to the existing CSI. The CSI table has been attached.

Section 8 (REQUIRED): Management Strategies

Previous Management Strategy Update:

Arlington has created a Groundwater Protection Plan and will continue to update the GPP on an as needed basis. Arlington has used its annual CCR, Consumer Confidence Report, to inform to inform the community of its water quality.

Newly Proposed Management Strategies:

There have been no new businesses or industry move into the area; therefore, the future management strategies will remain the same. Arlington will continue to update their GPP when necessary and use its annual CCR to inform the customers about their water quality. Arlington is committed to the protection of its water supply and will continue to monitor the quality daily.

Section 9 (REQUIRED): Contingency and WHP Planning

Emergency Response Phone List

Fill in all Blanks and Phone Numbers with appropriate information.

Local Emergency Response	Phone Number
Plant Operator	270-562-0320
City of Arlington Fire Dept	270-655-2261
Bardwell Police Dept	270-628-3377
Carlisle County Office of Emergency Management	270-628-5420
Local Emergency Dispatch Click here to enter text.	911

State and Federal Assistance	Phone Number
Kentucky DOW (Frankfort)	502-564-3410
Kentucky DOW Associated Field Office Paducah	270-898-8468
Kentucky Environmental Response Team 24 hour response line	(502) 564-2380 (800) 928-2380
Kentucky State Fire Marshall	(502) 573-0382

Any Other Pertinent Contacts	Any Other Pertinent Numbers
Click here to enter text.	PHONE NUMBER
Click here to enter text.	PHONE NUMBER
Click here to enter text.	

Procedures for Public Notification:

In the event of a water system emergency that would threaten the health or life of the public, use the following procedure. Prepare and broadcast an advisory, including directions for the public. Describe the public notification process and provide contacts for those media outlets. If the system uses methods other than traditional media please list them.

A brief statement will be prepared informing the public of the emergency while providing pertinent contact information.

Newspaper, Television, and Radio Stations	Phone Numbers
WPSD local TV	270-415-2001
Carlisle County Weekly Newsletter	270-562-3032

Potential Future Problems:

Arlington is a highly agricultural community and the most likely source of contamination would be from existing agriculture in the area.

Alternative Water Supply (Short and Long Term):

Describe the short term and long term water supply alternatives that address each of the potential future problems identified above. List all current interconnections with other water systems. Discuss the capacity of each potential alternative water supply to sustain normal operations.

Short term:

Since no inter-connects currently exist with any other water systems; water would have to be hauled from neighboring Columbus or another nearby water utility.

Long term:

A new wellfield could be developed or the treatment process could possibly be altered.

Schedule for Update and Review:

The Wellhead Protection Plan will be reviewed regularly and updated every five years as required by regulation.

Section 10 (REQUIRED): Copies of Public Notices and Education Materials

Provide copies of wellhead protection public notices and education materials distributed.

[Click here to enter text.](#)

Section 11 (REQUIRED): Public Meeting Documentation***

Provide the record of WHPP public meeting attendance, minutes and comments.

[Click here to enter text.](#)

*****Non-Community Water Systems are not required to have public meetings for 5 year updates, but must post a public notice in a conspicuous place. A public notice template is provided as a separate document. However, public input and associated documentation are encouraged. Please contact program staff if you have any questions.**

Certification Signature (TO BE COMPLETED BY PLANNING REPRESENTATIVE):

"I certify that this document and all attachments were prepared under my direction or supervision. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

Signature: David Garrett Date: ~~Click here to enter text.~~

04/14/2021

Printed Name/Title: David Garrett – General Manager

Assistance:

For any assistance please contact Wellhead Protection Staff:

Rob Blair
(502) 782-6893
Robert.Blair@ky.gov

Allan Shingleton
(502) 782-6907
Allan.Shingleton@ky.gov

Please sign and return completed form to:

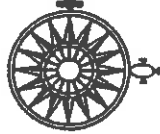
Kentucky Division of Water
Watershed Management Branch
Attention: Allan Shingleton
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601
or allan.shingleton@ky.gov

Phase 1
Attachment 1
County Highway Map

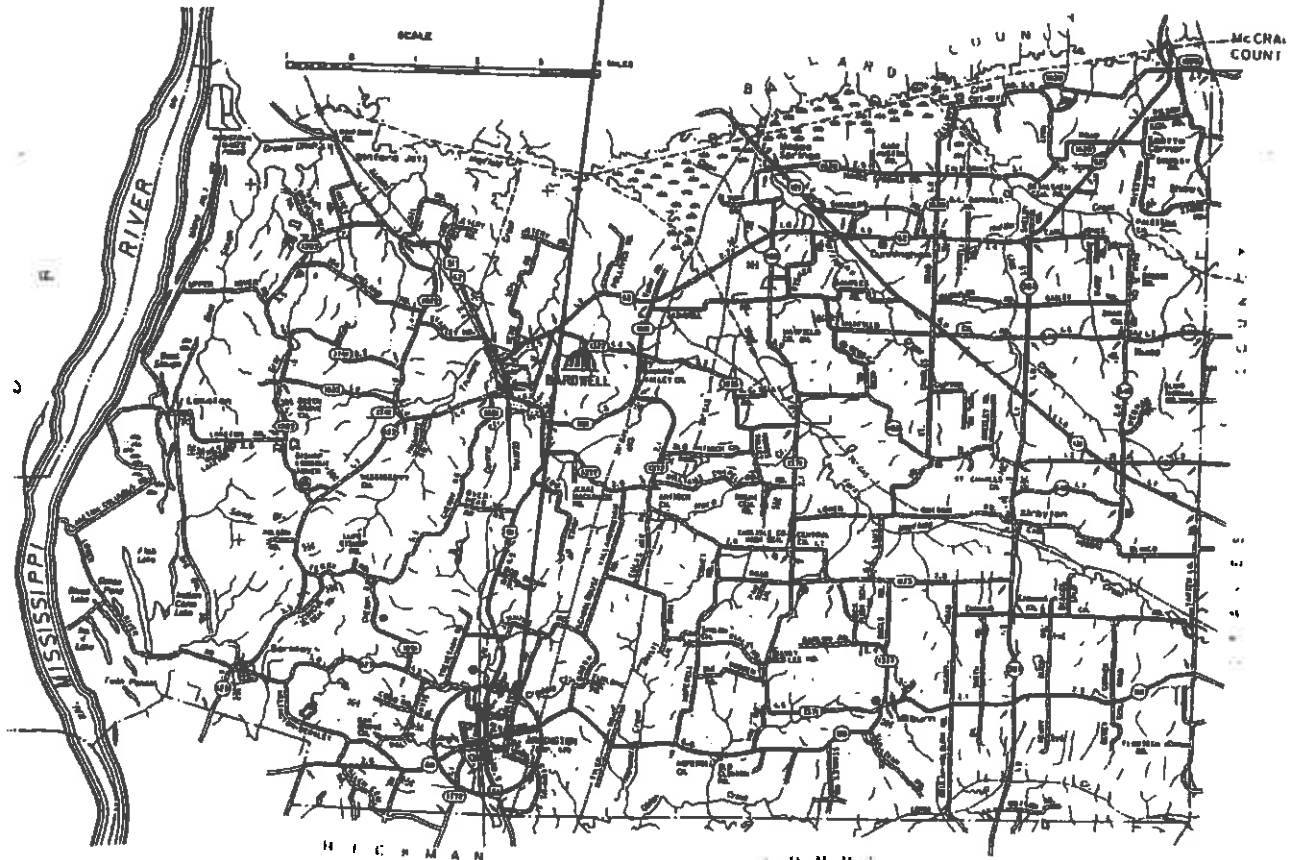
Carlisle County

The State of Missouri, just across the Mississippi River forms the western boundary of Carlisle County. The county was formed from Ballard County land in 1886. This area is known as the Purchase area. The county seat is at Bardwell.

John Griffin Carlisle was born in what is now Kenton County in 1835. By the time he was fifteen years old he was teaching school. After moving to Covington to study law, he was admitted to the bar in 1858. In succession Carlisle was elected to the state legislature, then the senate and finally lieutenant-governor. In 1877 he served in the U.S. House of Representatives and within six years became Speaker of the House. In 1893 Carlisle became Secretary of the Treasury. He died in 1910.



Water Treatment Plant



KENTUCKY WELL INSPECTION FORM

(1) AKGWA NUMBER 0 0 0 3 - 3 8 8 6

(2) OWNER/FACILITY INFORMATION
 Well Owner's Name: City of Arlington
 Mailing Address: PO Box 398
 City: Arlington State: KY Zip: 42021
 Well Address (if different)
 City: _____ State: _____ Zip: _____
 Phone: (270) 605-2261

Attach Well Record Label Here (if applicable)
 Note: Water well labels begin with "0" monitoring well labels begin with "8"

(3) WELL RECORD LABEL LOCATION:
 well casing pressure tank water pipe
 well cap electric box not labeled
 pump other LABEL MISSING

(4) USGS Quadrangle Name Arlington County Candice
 WELL LOCATION Latitude 36° 47.452 Longitude 89° 00.840

(5) PHYSIOGRAPHIC OR HYDROLOGIC REGION
 Blue Grass Ohio River Alluvium
 E. Coal Field W. Coal Field
 Miss. Plateau Jackson Purchase

(6) DRILLER INFORMATION
 Who Constructed Well? unknown
 Address: _____
 City: _____ State: _____ Zip: _____
 Date Well Completed: 10 / 1 / 33 () unknown
Month Day Year

(13) WELL USE (check all that apply)
 domestic livestock not used
 public irrigation abandoned
 industrial monitoring
 other
 PWSID# 0200009
 Water Withdrawal Permit # 0714

(18) ELEVATION
 ft. AMSL
 From () ground surface
 () top of casing
 By () map
 () survey
 () report
 () GPS

(7) GENERAL
 Type of Construction:
 drilled/augered
 excavate & backfill
 hand dug/blasted
 Depth of Well: 200 ft.
 measured
 reported
 unknown
 Static Water Level, ft. below surface: 60
 measured
 reported
 not measured
 can't be measured
 Well Yield: 200
 gpm () gph () gpd
 measured
 estimated
 unknown

(9) WELLHEAD
 Is Well Located in a Pit?
 yes no () unknown
 Wellhead (casing top):
 well cap sanitary seal
 flush mount locking cap
 open unknown
 Casing Above Ground Level?
 yes () no () unknown
 inches above ground.
 Discharge Pipe Below Surface?
 yes () no () unknown
 Pitless Adapter Used?
 yes no () unknown

(14) WELL SERVICE
 Number of People Served: ~500
 Number of Service Connections: 200
 Any Quantity Problems? () yes no
 Any Quality Problems? () yes no
 If "yes", describe in COMMENTS section, below.

(19) TREATMENT SYSTEM
 none
 water softener
 ultraviolet
 chlorination
 aeration
 charcoal filter
 sand filter
 iron treatment
 fluoridation
 other
 Treatment Bypass Available? yes () no

(8) SURFACE ANNULAR MATERIAL:
 clay () drill cuttings
 cement unknown
 open () sand gravel
 concrete pad

(10) PUMP DETAILS
 Date Installed: 08 / 00
Month Day Year
 Pump Type:
 submersible () bailer
 turbine () jet () hand pump
 none () other () unknown
 Intake Level: _____ ft. below surface
 Electric Connection:
 2 wire 3 wire () unknown

(15) COMPLIANCE TO STANDARDS
 Construction in Compliance with KY Standards?
 yes () no () unknown pre-law
 If "no", describe in COMMENTS section, below.

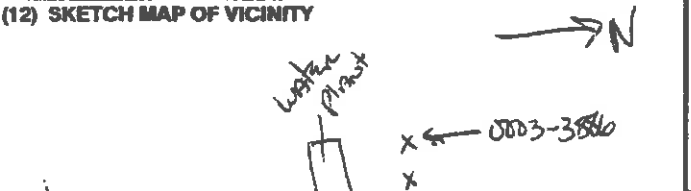
(16) RELATIVE LOCATION
 upgradient () sidegradient () unknown
 downgradient varying () N/A

(17) INSPECTION INFORMATION
 Date of Inspection: 9 / 6 / 00
Month Day Year
 Water Quality Sample Taken: () yes no
 Reason for Inspection:
 general survey
 specific complaint investigation
 spill or incident response
 contamination site investigation
 enforcement
 general water quality analysis
 ambient groundwater monitoring
 other WTRP
 Program Name and Facility ID#: _____
 Alternate Well ID#: Back well

(20) OPTIONAL USE
 Will Owner Allow State Access?
 yes () no () unknown
 Extent of Monitoring Allowed:
 collect sample
 measure SWL
 pump well
 complete access
 notification required
 other (describe below)
 Monitoring Feasibility: _____

(11) WELL CONSTRUCTION DETAILS

Feet Below Surface From	To	Casing Inside Dia. (In.)	Casing Type	Casing Wall Thickness (In.)
		<u>12"</u>	<u>Steel</u>	
		<u>5"</u>	<u>PVC</u>	<u>inside pipe</u>



(21) COMMENTS:

(22) INSPECTOR IDENTIFICATION
 Name: Holecomb Stephane A
Last First MI
 Agency: () DOW () DWM () CHR () KGS other KWRA
 Signature of Inspector: Stephane Holecomb Date: 9/6/00

KENTUCKY WELL INSPECTION FORM

(1) AKGWA NUMBER 0 0 0 5 - 1 8 9 6

Attach Well Record

(2) OWNER/FACILITY INFORMATION
 Well Owner's Name: City of Arlington Last First MI
 Mailing Address: PO Box 398
 City: Arlington State: KY Zip: 42021
 Well Address (if different)
 City: _____ State: _____ Zip: _____
 Phone: (270) 605-2201

monitoring well labels begin with "8"

(3) WELL RECORD LABEL LOCATION:
 well casing pressure tank water pipe
 well cap electric box not labeled
 pump other

(4) USGS Quadrangle Name Arlington County CADISE
 WELL LOCATION Latitude 36° 47' 45.6" Longitude 89° 00' 32"

(5) PHYSIOGRAPHIC OR HYDROLOGIC REGION
 Blue Grass Ohio River Alluvium
 E. Coal Field W. Coal Field
 Miss. Plateau Jackson Purchase

(6) DRILLER INFORMATION
 Who Constructed Well? unknown
 Address: _____
 City: _____ State: _____ Zip: _____
 Date Well Completed: _____
Month Day Year

(13) WELL USE (check all that apply)
 domestic livestock not used
 public irrigation abandoned
 industrial monitoring
 other
 FWSID# 0200009
 Water Withdrawal Permit # 0714

(18) ELEVATION
340 ft AMSL
 From ground surface
 top of casing
 By map
 survey
 report
 GPS

(7) GENERAL
 Type of Construction:
 drilled/augered
 excavate & backfill
 hand dug/blasted
 Depth of Well: 200 ft.
 measured
 reported
 unknown
 Static Water Level,
 ft. below surface: 60
 measured
 reported
 not measured
 can't be measured
 Well Yield:
 gpm gph gpd
 measured
 estimated
 unknown

(9) WELLHEAD
 Is Well Located in a Pit?
 yes no unknown
 Wellhead (casing top):
 well cap sanitary seal
 flush mount locking cap
 open unknown
 Casing Above Ground Level?
 yes no unknown
 inches above ground.
 Discharge Pipe Below Surface?
 yes no unknown
 Pitless Adapter Used?
 yes no unknown

(14) WELL SERVICE
 Number of People Served: ~ 500
 Number of Service Connections: 200
 Any Quantity Problems? yes no
 Any Quality Problems? yes no
 If "yes", describe in COMMENTS section, below.

(19) TREATMENT SYSTEM
 none
 water softener
 ultraviolet
 chlorination
 aeration
 charcoal filter
 sand filter
 iron treatment
 fluoridation
 other
 Treatment Bypass Available? yes no

(8) SURFACE ANNULAR MATERIAL:
 clay drill cuttings
 cement unknown
 open sand gravel
 concrete pad

(10) PUMP DETAILS
 Date Installed: 1980's
Month Day Year
 Pump Type:
 submersible bailer
 turbine jet hand pump
 none other unknown
 Intake Level: _____ ft. below surface
 Electric Connection:
 2 wire 3 wire unknown

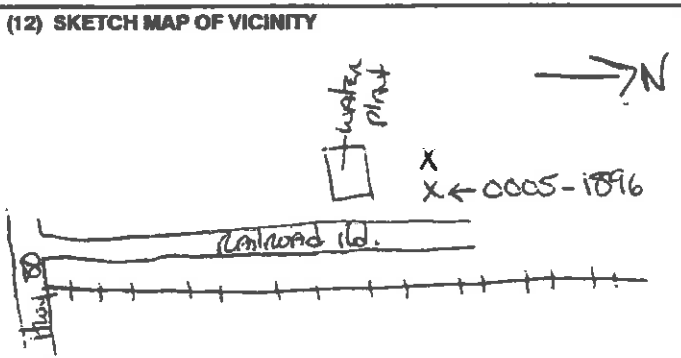
(15) COMPLIANCE TO STANDARDS
 Construction in Compliance with KY Standards?
 yes no unknown pre-law
 If "no", describe in COMMENTS section, below.

(16) RELATIVE LOCATION
 upgradient sidegradient unknown
 downgradient varying N/A
 (17) INSPECTION INFORMATION
 Date of Inspection: 09 06 00
Month Day Year
 Water Quality Sample Taken: yes no
 Reason for Inspection:
 general survey
 specific complaint investigation
 spill or incident response
 contamination site investigation
 enforcement
 general water quality analysis
 ambient groundwater monitoring
 other WHPP
 Program Name and Facility ID#:
 Alternate Well ID#:

(20) OPTIONAL USE
 Will Owner Allow State Access?
 yes no unknown
 Extent of Monitoring Allowed:
 collect sample
 measure SWL
 pump well
 complete access
 notification required
 other (describe below)
 Monitoring Feasibility:

(11) WELL CONSTRUCTION DETAILS

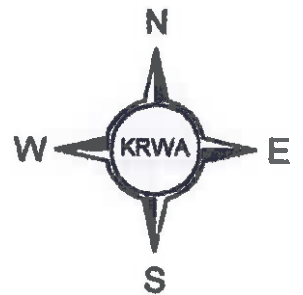
Feet Below Surface From	To	Casing Inside Dia. (in.)	Casing Type	Casing Wall Thickness (in.)
		<u>4 1/2</u>	<u>PVC</u>	



(21) COMMENTS:

(22) INSPECTOR IDENTIFICATION
 Name: Holcomb Stephane
Last First MI
 Agency: DOW DWM CHR KGS other AKGWA
 Signature of Inspector: Stephane Holcomb
 Date: 9/6/00

Arlington Water and Sewer Wellhead Protection Areas



- WHPA 3
- WHPA 2
- WHPA 1
- Well

APPROVED
DIVISION OF WATER
[Signature]
SIGNATURE
[Signature]
TITLE
11/30/00
DATE

Map Prepared by the
Kentucky Rural Water Association

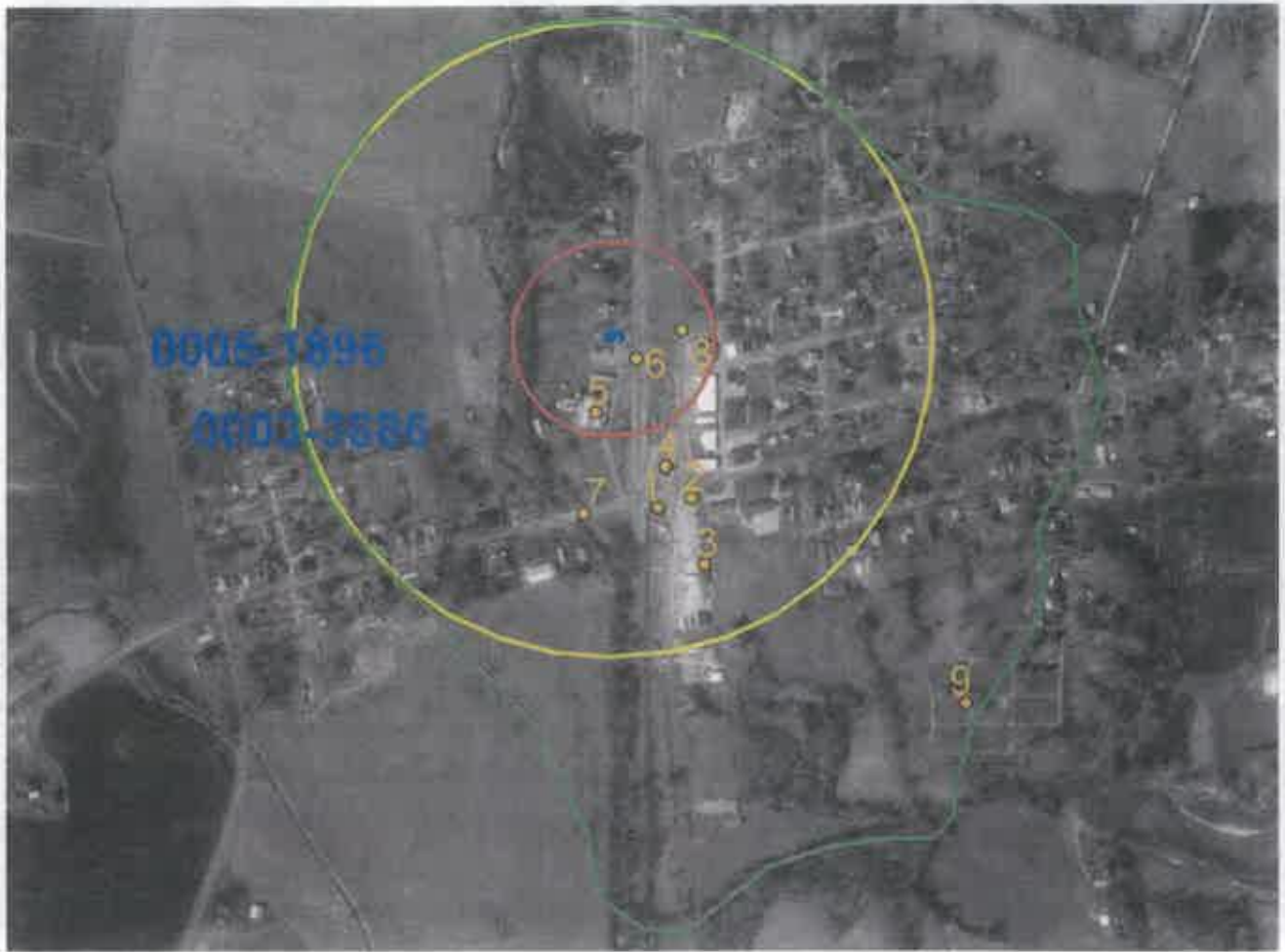
Contaminant Source ID#	Contaminant Source/Land Use	Mailing Address	Quantity	WHPA	proximity calc	Contaminant Value	Hydrologic Sensitivity	Numeric Rating	Susceptibility Ranking
1	Citgo Gas Station	223 County Road 1209 Arlington, KY 42021	3	2	2	3	2	15	High
2	Car Wash	1250 St. Route 80 E Arlington, KY 42021	1	2	2	2	2	12	Med
3	Lukes Restaurant & Truck Stop	HWY 51 Arlington, KY 42021	1	2	2	2	2	12	Med
4	D&D Gas Station	416 4th Street Arlington, KY 42021	3	2	2	3	2	15	High
5	Thomas Seed co.	Arlington, KY	1	1	3	2	2	14	Med
6	Canadian National Rail Road	Arlington, KY	1	1	3	3	2	17	High
7	HWY 80	Arlington, KY	1	2	2	3	2	15	High
8	HWY 51	Arlington, KY	1	1	3	3	2	17	High
9	Arlington Cemetary	Arlington, KY	1	3	1	2	2	10	Med
10	Row Crop land	Arlington, KY	1	2	2	3	2	15	High

Totals:	High	Med	Low
14	9	5	0

Contaminant Source Inventory for Arlington Water District

PWSID:0200009

*Arlington Quadrangle
Carlisle County, Kentucky*



- Potential Contaminant Sources
- WHPA 3
- WHPA 2
- WHPA 1
- Well

