

# Source Water Assessment Report



**Public Water Supply: MCPHERSON, CITY OF**

**Assessment Areas Include:  
83, 84**



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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

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# Report Description

## Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(<http://www.kdhe.state.ks.us/nps>) in 2004.

## MCPHERSON, CITY OF Summary:

AA	Type	Diversion Id
83	Ground water multiple wells	004, 009, 008, 002, 005, 003
84	Ground water multiple wells	013, 014, 012, 011, 010, 007

Public Water Supply: **MCPHERSON, CITY OF**  
Assessment Area: **83**  
Diversion Id's: **004, 009, 008, 002, 005, 003**  
Status: **Accepted**  
Submit Date: **2002-11-22 13:26:43**

## **Executive Summary:**

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

# Executive Summary

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 83

## Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	B	B*	C	C*	D
Susceptibility Likelihood Score – SLS	<b>69</b>	<b>66</b>	<b>69</b>	<b>72</b>	<b>65</b>	<b>71</b>
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

A – Microbiological

B\* – Nitrates

C\* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

## Susceptibility Likelihood Range

SLS Range	
<b>0–50</b>	<b>Low Susceptibility</b>
<b>51–80</b>	<b>Moderate Susceptibility</b>
<b>81–100</b>	<b>High Susceptibility</b>

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## Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100-foot radius around a groundwater well and a 1000-foot radius around a surface water intake. Zone B is a 2000-foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2-mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

# Potential Sources

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 83

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198318	Veterinary Services, Specialties	742	B
198319	Veterinary Services, Specialties	742	B
198350	Veterinary Services, Specialties	742	B
198481	Veterinary Services, Specialties	742	B
198566	Oil and Gas Field services	1389	B
198827	Oil and Gas Field services	1389	B
198475	Single-family Housing Construction	1521	B
198518	Single-family Housing Construction	1521	B
198862	Single-family Housing Construction	1521	B
198221	Nonresidential Construction	1542	B
198490	Nonresidential Construction	1542	B
198833	Nonresidential Construction	1542	B
198356	Flour Mill and Other Food Grain Milling	2041	B
198738	Newspapers Publishing and Printing	2711	B
198739	Newspapers Publishing and Printing	2711	B
198348	Commercial Printing-Lithographic	2752	B
198606	Commercial Printing-Lithographic	2752	B

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198648	Commercial Printing–Lithographic	2752	B
198576	Commercial Printing NEC	2759	B
198306	Plastics products Manufacturing	3089	B
198316	Plastics products Manufacturing	3089	B
198326	Plastics products Manufacturing	3089	B
198329	Plastics products Manufacturing	3089	B
198491	Concrete Products Manufacturing	3272	B
198323	Metal Barrels, Drums, and Pails Manufacturing	3412	B
198295	Plating and Polishing Manufacturing	3471	B
198485	Plating and Polishing Manufacturing	3471	B
198305	Machinery, Except Electrical Manufacturing	3599	B
198327	Machinery, Except Electrical Manufacturing	3599	B
198328	Machinery, Except Electrical Manufacturing	3599	B
198839	Machinery, Except Electrical Manufacturing	3599	B
198859	Machinery, Except Electrical Manufacturing	3599	B
198493	Farm Product Warehousing and Storage	4221	B
198515	Farm Product Warehousing and Storage	4221	B

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198558	Refuse Systems	4953	B
198486	Scrap and Waste Materials	5093	B
198464	Gasoline Service Station	5541	B
198742	Photofinishing Laboratory	7384	B
198465	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
198489	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
198496	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
198308	Auto Truck Repair Service	7538	B
198488	Auto Truck Repair Service	7538	B
198517	Auto Truck Repair Service	7538	B
198629	Auto Truck Repair Service	7538	B
198784	Auto Truck Repair Service	7538	B
198340	Car Wash	7542	B
198880	Veterinary Services, Specialties	742	C
198892	Veterinary Services, Specialties	742	C
198207	Oil and Gas Field services	1389	C
198130	Single-family Housing Construction	1521	C
198131	Single-family Housing Construction	1521	C
198205	Single-family Housing Construction	1521	C
198686	Single-family Housing Construction	1521	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198132	Nonresidential Construction	1542	C
198280	Nonresidential Construction	1542	C
198382	Nonresidential Construction	1542	C
198380	Highway and Street Construction	1611	C
198672	Highway and Street Construction	1611	C
198825	Highway and Street Construction	1611	C
198136	Prepared Feeds For Animals and Fowls	2048	C
198378	Commercial Printing–Lithographic	2752	C
198874	Nitrogen Fertilizer Manufacturing	2873	C
198887	Plastics products Manufacturing	3089	C
198888	Plastics products Manufacturing	3089	C
198889	Plastics products Manufacturing	3089	C
198402	Plating and Polishing Manufacturing	3471	C
198416	Plating and Polishing Manufacturing	3471	C
198864	Farm Machinery and Equipment	3523	C
198939	Special Industries Machinery Manufacturing	3559	C
198890	Machinery, Except Electrical Manufacturing	3599	C
198424	Signs and Advertising Display Manufacturing	3993	C
198975	Farm Product Warehousing and Storage	4221	C
198881	Farm and Garden Machinery	5083	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198893	Farm and Garden Machinery	5083	C
198408	Gasoline Service Station	5541	C
198411	Mobile Home Park	6515	C
198153	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
198154	Auto Truck Repair Service	7538	C
198415	Auto Truck Repair Service	7538	C
198838	Auto Truck Repair Service	7538	C
198365	Car Wash	7542	C
198885	Car Wash	7542	C
198204	Repair Services, Nec	7699	C
198803	Repair Services, Nec	7699	C
198952	Repair Services, Nec	7699	C
198965	Golf Course	7992	C

## Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000112	Lundberg, Delawrence	A-LAMP-BA17	C

## Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources
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## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000113	Moody Oil	01396	B
3000375	Mcperson Concrete Products	04642	B
3000389	Miller, R K	04824	B
3000638	Mid Kansas Coop, Mcpherson	06662	B
3000671	Kerr-mcgee #8427	06828	B
3000934	Keystone Railway Equip	10727	B
3001099	John's Motor Service	16260	B
3001341	Mcperson, Bd Public Utilities	23881	B
3001525	Butterfield Construction	25761	B
3001692	Texaco, Rays Service	26530	B
3001959	Kings Moving Storage	27621	B
3002096	Green Lantern #8 (texaco)	28557	B
3002189	Coop Service Station	29037	B
3002197	Copeland Supply	29059	B
3002609	B K Detailing	80522	B
3002610	Central Plastics	80523	B
3002611	Central Service Inc	80524	B
3002612	Cottage Yarn	80525	B
3002613	Ken Goering Motors	80526	B
3002614	Mcperson Auto Salvage	80528	B
3002615	Mcperson Laundry Dry Cleaners	80529	B

## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3002618	24-hour Car Wash	80533	B
3002699	Femco, Inc	81308	B
3002755	Jacobs Insurance	81429	B
3002801	Gran-diel Music	81559	B
3002825	Sprague Property	81631	B
3002839	Elliott Carpet Store	81675	B
3000003	Mcperson, Street Dept	00010	C
3000007	Nutrena Feeds	00019	C
3000114	Ncra Aircraft Operations	01399	C
3000115	Bell Gas #811	01402	C
3000117	Amoco, Eastside Standard	01414	C
3000278	Coastal Mart #2517	03352	C
3000303	Radke Oil Co	03723	C
3000365	Mcperson Co Shop	04480	C
3000673	Mcperson Airport	06832	C
3000679	Coastal Mart #2513	06851	C
3000698	Total #1863	06978	C
3000752	Coastal Mart #9191	07235	C
3000829	Stop 2 Shop, Mcpherson	08649	C
3001063	Hassman Oil	15311	C
3001106	Kansas Transit	16485	C
3001151	Nelson Nursery	18171	C
3001258	81 Farm Supply	23111	C

## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001454	Smith Oil Gas	25414	C
3001499	Mcperson Service Center	25614	C
3001681	Kmart	26438	C
3001698	Farmland Industries, Mcpherson	26578	C
3002616	Mustang Trailer Park	80530	C
3002617	Pricket Liquor	80532	C
3002619	5 Star Car Wash	80534	C
3002775	Fina #5097, Former	81475	C
3002854	1st Baer (vacant Lot)	81705	C

## Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000785	TIDY LAUNDRY	C505900028	B
7000786	CRANKSHAFT DIE AND ENGINEERING	C505900043	B
7000794	GIANT LAUNDRY	C505970790	B
7000793	MCPHERSON CITY/COUNTY AIRPORT	C505970201	C
7000795	MCPHERSON PWS #7	C505970821	C

## Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000419	NCRA	0410-S	C

## Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000142	BPU – MCPHERSON #1	I-LA11-PO03	B
6000143	BPU – MCPHERSON WELL #2	I-LA11-PO07	B
6000144	BPU – MCPHERSON WELL #5	I-LA11-PO08	B
6000728	BPU – (MCPHERSON) WT AIR STRIPPER	I-LA11-PO09	B
6000141	KING CONSTRUCTION-HYDRODEMOLITION PROJE	I-LA11-NO10	C
6000726	NATIONAL COOPERATIVE REFINERY ASSOC.	I-LA11-PO02	C
6000727	BPU – MCPHERSON #2	I-LA11-PO04	C
6001367	MC PHERSON MWTP	M-LA11-OO01	C
6001368	MC PHERSON MWTP	M-LA11-OO01	C
6001372	MC PHERSON MWTP	M-LA11-OO01	C

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## **Added Sources:**

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

# Added Sources

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 83

## Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9000384	on-site wastewater facility	10067	B
9000379	wheat field	111	B
9000386	airport runway	4582	B
9000380	Irrigation equipment, pump site, and well	10012	C
9000385	abandoned water well	10028	C
9000381	irrigated cropland of corn	115	C

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## **Potential Contaminants Summary:**

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number of sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

# Potential Contaminants Summary

Public Water Supply: MCPHERSON, CITY OF  
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## Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
18	3	70	18	50	12

A – Microbiological

B\* – Nitrates

C\* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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## Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

**A** – Microbiological    **B** – Inorganic Compounds                      **B1** – Eutrophication – Phosphorous  
**B2** – Sedimentation    **B\*** – Nitrates    **C** – Synthetic Organic Compounds  
**C\*** – Pesticides            **D** – Volatile Organic Compounds

# Potential Contaminants Listing

Public Water Supply: MCPHERSON, CITY OF  
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## Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
7542	Car Wash	Inorganics, VOCs	B
"	"	"	B1
"	"	"	B2
"	"	"	D
3272	Concrete Products Manufacturing	Minerals and TSS	B
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	B
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
3412	Metal Barrels, Drums, and Pails Manufacturing	inorganics, VOCs	B
"	"	"	D
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	B
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	B
"	"	"	C
7384	Photofinishing Laboratory	NA	B
"	"	"	D
3089	Plastics products Manufacturing	inorganics, VOCs	B
"	"	"	D
3471	Plating and Polishing Manufacturing	Inorganics, metals, VOCs and metal etch	B
"	"	"	D

**Unregulated Identified Site Sources and associated Potential Contaminant Category.**

<b>SIC ID</b>	<b>SIC Source</b>	<b>Potential Contaminant</b>	<b>Contaminant Category</b>
5093	Scrap and Waste Materials	Metals, TSS	B
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	B
"	"	"	D
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
3559	Special Industries Machinery Manufacturing	inorganics, VOCs	B
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C

**Unregulated Identified Site Sources and associated Potential Contaminant Category.**

<b>SIC ID</b>	<b>SIC Source</b>	<b>Potential Contaminant</b>	<b>Contaminant Category</b>
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	D
3523	Farm Machinery and Equipment	inorganics	B
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
5083	Farm and Garden Machinery	inorganics	B
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
4953	Refuse Systems	ALL	A
"	"	"	B
"	"	"	B1
"	"	"	B2

**Unregulated Identified Site Sources and associated Potential Contaminant Category.**

<b>SIC ID</b>	<b>SIC Source</b>	<b>Potential Contaminant</b>	<b>Contaminant Category</b>
4953	Refuse Systems	ALL	B*
"	"	"	C
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	B

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Status: **Accepted**  
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## **Protection Measures:**

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

# Protection Measures

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 83

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
3272	Concrete Products Manufacturing	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28-16

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28-16, KDHE
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3412	Metal Barrels, Drums, and Pails Manufacturing	inorganics, VOCs	Minimize outdoor storage and control storm water runoff. Pre-treat process wastewater prior to discharge to POTW	40 CFR 464 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28-5
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28-16, KDHE

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations
3471	Plating and Polishing Manufacturing	Inorganics, metals, VOCs and metal etch	Minimize outdoor storage and control storm water runoff. Pre-treat process wastewater prior to discharge to POTW	40 CFR 413 and State or federal Storm water pollution prevention regulations
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28-48, KDHE, KDEM
3559	Special Industries Machinery Manufacturing	Inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

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## **Assessment Analysis:**

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

# Assessment Analysis

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 83

## Ground Water Multiple Wells Analysis

A – Microbiological    B – Inorganic Compounds  
 B\* – Nitrates            C – Synthetic Organic Compounds  
 C\* – Pesticides        D – Volatile Organic Compounds

No.	Question	Response	A	B	B*	C	C*	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	No	0	0	0	0	0	0
5	Does a PWS own or control all the areas around the wells?	Yes	0	0	0	0	0	0
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	Yes	1	1	1	1	1	1
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures?	No	1	0	1	0	0	0
17	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	B	B*	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
26	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
29	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
39	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

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## **Site Comments:**

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

# Site Comments

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 83

## Comments for Unregulated Sites

Did Not Receive Any Comments
------------------------------

## Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Lundberg, Delawrence	2000112	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

## Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments
------------------------------

## Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Butterfield Construction	3001525	The site is closed from a gasoline and diesel leak in 1991. No groundwater contaminaton was suspected.	Nicole Fisher

## Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
John's Motor Service	3001099	The site is closed from a used motor oil spill in 1989. No groundwater contamination was suspected.	Nicole Fisher
Kerr-mcgee #8427	3000671	The site is closed from a leak in 1989. No groundwater contamination was suspected.	Nicole Fisher
Keystone Railway Equip	3000934	The site is closed from a leak in 1990. No groundwater contamination was suspected.	Nicole Fisher
Mcperson Concrete Products	3000375	The site is closed from a diesel leak in 1990. No groundwater contamination was suspected. The tanks were removed.	Nicole Fisher
Mcperson, Bd Public Utilities	3001341	The site is closed from a diesel leak in 1990. No groundwater contamination was suspected. The tanks were removed.	Nicole Fisher
Mid Kansas Coop, Mcpherson	3000638	The site is currently being monitored from a leak in 1997. A domestic water well is within .25 miles downgradient of the leak. No groundwater contamination was suspected.	Nicole Fisher
Moody Oil	3000113	The site is closed from a gasoline leak in 1991. No groundwater contamination was suspected.	Nicole Fisher
Texaco, Rays Service	3001692	The site is closed from a gasoline leak in 1992. No contamination was detected in the groundwater, but high levels of gasoline were detected at a depth of 15'.	Nicole Fisher

## Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
CRANKSHAFT DIE AND ENGINEERING	7000786	The site contained soils high in the heavy metal chromium. Soils were excavated and the wells were plugged.	Nicole Fisher
MCPHERSON PWS #7	7000795	Elevated levels of tetrachloroethylene, TCE, DCE, TCA have been found in the well since 1980s.	Nicole Fisher

## Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
TIDY LAUNDRY	7000785	This site currently is undergoing remediation due to elevated levels of PCE in the soil, public water supply, and groundwater.	Nicole Fisher

## Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
NCRA	5000419	This solid waste facility is privately owned.	Nicole Fisher

## Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BPU – (MCPHERSON) WT AIR STRIPPER	6000728	This industrial waste water treatment facility doesn't frequently discharge.	Nicole Fisher
BPU – MCPHERSON #2	6000727	This industrial waste water treatment facility doesn't frequently discharge. The discharge levels are good.	Nicole Fisher
KING CONSTRUCTION-HYDRODEMOLITION PROJE		This facility uses nondischarging lagoons.	Nicole Fisher
MC PHERSON MWTP	6001367	This mechanical water treatment plant discharges into the Little Arkansas River by way of the Dry Turkey Creek into the Turkey Creek.	Nicole Fisher

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### **Added Site Comments:**

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

# Added Site Comments

Public Water Supply: MCPHERSON, CITY OF  
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## Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Irrigation equipment, pump site, and well	9000380	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
abandoned water well	9000385	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
airport runway	9000386	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
irrigated cropland of corn	9000381	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000384	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
wheat field	9000379	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher

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## **Analysis Question Comments:**

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

# Analysis Question Comments

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 83

## Comments for Analysis Questions

Analysis Question	Question Comments	Author
N/A or Unknown	According to the engineering reports, an air stripper was installed for wells 2,3,5 to prevent VOC's from entering the wells.	Nicole Fisher
N/A or Unknown	Well #7 has shown contamination of DCE (gasoline derivative) and well #10 has shown contamination of herbicides and pesticides. Monitoring wells have been established by well #10.	Nicole Fisher

Public Water Supply: **MCPHERSON, CITY OF**  
Assessment Area: **84**  
Diversion Id's: **013, 014, 012, 011, 010, 007**  
Status: **Accepted**  
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## **Executive Summary:**

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

# Executive Summary

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 84

## Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	B	B*	C	C*	D
Susceptibility Likelihood Score – SLS	<b>69</b>	<b>66</b>	<b>69</b>	<b>72</b>	<b>65</b>	<b>71</b>
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

- A – Microbiological
- B\* – Nitrates
- C\* – Pesticides
- B – Inorganic Compounds
- C – Synthetic Organic Compounds
- D – Volatile Organic Compounds

## Susceptibility Likelihood Range

SLS Range	
<b>0–50</b>	<b>Low Susceptibility</b>
<b>51–80</b>	<b>Moderate Susceptibility</b>
<b>81–100</b>	<b>High Susceptibility</b>

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## Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100-foot radius around a groundwater well and a 1000-foot radius around a surface water intake. Zone B is a 2000-foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2-mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

# Potential Sources

Public Water Supply: MCPHERSON, CITY OF  
 Assessment Area: 84

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198892	Veterinary Services, Specialties	742	B
198825	Highway and Street Construction	1611	B
198887	Plastics products Manufacturing	3089	B
198888	Plastics products Manufacturing	3089	B
198889	Plastics products Manufacturing	3089	B
198890	Machinery, Except Electrical Manufacturing	3599	B
198893	Farm and Garden Machinery	5083	B
198907	Cattle Farm	211	C
198318	Veterinary Services, Specialties	742	C
198319	Veterinary Services, Specialties	742	C
198350	Veterinary Services, Specialties	742	C
198481	Veterinary Services, Specialties	742	C
198880	Veterinary Services, Specialties	742	C
198207	Oil and Gas Field services	1389	C
198566	Oil and Gas Field services	1389	C
198827	Oil and Gas Field services	1389	C
198130	Single-family Housing Construction	1521	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198131	Single-family Housing Construction	1521	C
198475	Single-family Housing Construction	1521	C
198518	Single-family Housing Construction	1521	C
198862	Single-family Housing Construction	1521	C
198132	Nonresidential Construction	1542	C
198221	Nonresidential Construction	1542	C
198280	Nonresidential Construction	1542	C
198382	Nonresidential Construction	1542	C
198490	Nonresidential Construction	1542	C
198833	Nonresidential Construction	1542	C
198896	Nonresidential Construction	1542	C
198380	Highway and Street Construction	1611	C
198672	Highway and Street Construction	1611	C
198928	Highway and Street Construction	1611	C
198356	Flour Mill and Other Food Grain Milling	2041	C
198738	Newspapers Publishing and Printing	2711	C
198739	Newspapers Publishing and Printing	2711	C
198348	Commercial Printing-Lithographic	2752	C
198378	Commercial Printing-Lithographic	2752	C
198606	Commercial Printing-Lithographic	2752	C
198648	Commercial Printing-Lithographic	2752	C
198576	Commercial Printing NEC	2759	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198874	Nitrogen Fertilizer Manufacturing	2873	C
198306	Plastics products Manufacturing	3089	C
198316	Plastics products Manufacturing	3089	C
198326	Plastics products Manufacturing	3089	C
198329	Plastics products Manufacturing	3089	C
198491	Concrete Products Manufacturing	3272	C
198323	Metal Barrels, Drums, and Pails Manufacturing	3412	C
198295	Plating and Polishing Manufacturing	3471	C
198485	Plating and Polishing Manufacturing	3471	C
198864	Farm Machinery and Equipment	3523	C
198305	Machinery, Except Electrical Manufacturing	3599	C
198327	Machinery, Except Electrical Manufacturing	3599	C
198328	Machinery, Except Electrical Manufacturing	3599	C
198839	Machinery, Except Electrical Manufacturing	3599	C
198859	Machinery, Except Electrical Manufacturing	3599	C
198877	Signs and Advertising Display Manufacturing	3993	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198493	Farm Product Warehousing and Storage	4221	C
198515	Farm Product Warehousing and Storage	4221	C
198975	Farm Product Warehousing and Storage	4221	C
198558	Refuse Systems	4953	C
198881	Farm and Garden Machinery	5083	C
198486	Scrap and Waste Materials	5093	C
198464	Gasoline Service Station	5541	C
198742	Photofinishing Laboratory	7384	C
198153	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
198465	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
198489	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
198496	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
198154	Auto Truck Repair Service	7538	C
198308	Auto Truck Repair Service	7538	C
198488	Auto Truck Repair Service	7538	C
198517	Auto Truck Repair Service	7538	C
198629	Auto Truck Repair Service	7538	C
198784	Auto Truck Repair Service	7538	C
198838	Auto Truck Repair Service	7538	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
198340	Car Wash	7542	C
198365	Car Wash	7542	C
198885	Car Wash	7542	C
198803	Repair Services, Nec	7699	C
198965	Golf Course	7992	C

## Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002626	O.K. Corral	A-LAMP-C001	C

## Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources
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## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000114	Ncra Aircraft Operations	01399	B
3000365	Mcperson Co Shop	04480	B

## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000673	Mcperson Airport	06832	B
3001258	81 Farm Supply	23111	B
3000003	Mcperson, Street Dept	00010	C
3000113	Moody Oil	01396	C
3000115	Bell Gas #811	01402	C
3000278	Coastal Mart #2517	03352	C
3000303	Radke Oil Co	03723	C
3000375	Mcperson Concrete Products	04642	C
3000389	Miller, R K	04824	C
3000638	Mid Kansas Coop, Mcpherson	06662	C
3000671	Kerr-mcgee #8427	06828	C
3000679	Coastal Mart #2513	06851	C
3000698	Total #1863	06978	C
3000752	Coastal Mart #9191	07235	C
3000829	Stop 2 Shop, Mcpherson	08649	C
3000934	Keystone Railway Equip	10727	C
3001063	Hassman Oil	15311	C
3001099	John's Motor Service	16260	C
3001106	Kansas Transit	16485	C
3001341	Mcperson, Bd Public Utilities	23881	C
3001499	Mcperson Service Center	25614	C
3001525	Butterfield Construction	25761	C
3001681	Kmart	26438	C

## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001692	Texaco, Rays Service	26530	C
3001698	Farmland Industries, Mcpherson	26578	C
3001959	Kings Moving Storage	27621	C
3002096	Green Lantern #8 (texaco)	28557	C
3002189	Coop Service Station	29037	C
3002197	Copeland Supply	29059	C
3002609	B K Detailing	80522	C
3002610	Central Plastics	80523	C
3002611	Central Service Inc	80524	C
3002612	Cottage Yarn	80525	C
3002613	Ken Goering Motors	80526	C
3002614	Mcpherson Auto Salvage	80528	C
3002615	Mcpherson Laundry Dry Cleaners	80529	C
3002617	Pricket Liquor	80532	C
3002618	24-hour Car Wash	80533	C
3002619	5 Star Car Wash	80534	C
3002699	Femco, Inc	81308	C
3002755	Jacobs Insurance	81429	C
3002775	Fina #5097, Former	81475	C
3002801	Gran-diel Music	81559	C
3002825	Sprague Property	81631	C
3002839	Elliott Carpet Store	81675	C

## Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000793	MCPHERSON CITY/COUNTY AIRPORT	C505970201	B

## Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000795	MCPHERSON PWS #7	C505970821	B
7000785	TIDY LAUNDRY	C505900028	C
7000786	CRANKSHAFT DIE AND ENGINEERING	C505900043	C
7000790	SOUTH MCPHERSON – US ALT 81	C505903011	C
7000794	GIANT LAUNDRY	C505970790	C

## Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000419	NCRA	0410-S	C

## Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000727	BPU – MCPHERSON #2	I-LA11-PO04	B
6000142	BPU – MCPHERSON #1	I-LA11-PO03	C
6000143	BPU – MCPHERSON WELL #2	I-LA11-PO07	C
6000144	BPU – MCPHERSON WELL #5	I-LA11-PO08	C
6000726	NATIONAL COOPERATIVE REFINERY ASSOC.	I-LA11-PO02	C
6000728	BPU – (MCPHERSON) WT AIR STRIPPER	I-LA11-PO09	C
6001367	MC PHERSON MWTP	M-LA11-OO01	C

## Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001368	MC PHERSON MWTP	M-LA11-0001	C
6001372	MC PHERSON MWTP	M-LA11-0001	C

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### **Added Sources:**

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

# Added Sources

Public Water Supply: MCPHERSON, CITY OF  
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## Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9000382	Irrigation equipment, pump site, and well	10012	B
9000384	on-site wastewater facility	10067	B
9000379	wheat field	111	B
9000383	irrigated cropland of corn	115	B
9000386	airport runway	4582	B
9000385	abandoned water well	10028	C

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## **Potential Contaminants Summary:**

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number of sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

# Potential Contaminants Summary

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 84

## Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
15	3	62	16	45	9

A – Microbiological

B\* – Nitrates

C\* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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## Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

**A** – Microbiological    **B** – Inorganic Compounds                      **B1** – Eutrophication – Phosphorous  
**B2** – Sedimentation    **B\*** – Nitrates    **C** – Synthetic Organic Compounds  
**C\*** – Pesticides            **D** – Volatile Organic Compounds

# Potential Contaminants Listing

Public Water Supply: MCPHERSON, CITY OF  
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## Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
7542	Car Wash	Inorganics, VOCs	B
"	"	"	B1
"	"	"	B2
"	"	"	D
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
3272	Concrete Products Manufacturing	Minerals and TSS	B
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	B
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
3412	Metal Barrels, Drums, and Pails Manufacturing	inorganics, VOCs	B
"	"	"	D
2873	Nitrogen Fertilizer Manufacturing	nitrogen	B
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	B
"	"	"	C
7384	Photofinishing Laboratory	NA	B
"	"	"	D
3089	Plastics products Manufacturing	inorganics, VOCs	B
"	"	"	D

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3471	Plating and Polishing Manufacturing	Inorganics, metals, VOCs and metal etch	B
"	"	"	D
5093	Scrap and Waste Materials	Metals, TSS	B
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	B
"	"	"	D
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C

**Unregulated Identified Site Sources and associated Potential Contaminant Category.**

<b>SIC ID</b>	<b>SIC Source</b>	<b>Potential Contaminant</b>	<b>Contaminant Category</b>
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	D
3523	Farm Machinery and Equipment	inorganics	B
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
5083	Farm and Garden Machinery	inorganics	B
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
4953	Refuse Systems	ALL	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	B

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## **Protection Measures:**

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

# Protection Measures

Public Water Supply: MCPHERSON, CITY OF  
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## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals. Maintain riparian areas along waterways and keep cattle out of these areas. Proper Waste Management and Grazing Management.	KDHE– Livestock Waste Management Section, KAR 28–16, KDA, County Soil Conservation District, NRCS
3272	Concrete Products Manufacturing	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28-16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28-16, KDHE
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3412	Metal Barrels, Drums, and Pails Manufacturing	inorganics, VOCs	Minimize outdoor storage and control storm water runoff. Pre-treat process wastewater prior to discharge to POTW	40 CFR 464 and State or federal Storm water pollution prevention regulations
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28-16, KDHE

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations
3471	Plating and Polishing Manufacturing	Inorganics, metals, VOCs and metal etch	Minimize outdoor storage and control storm water runoff. Pre-treat process wastewater prior to discharge to POTW	40 CFR 413 and State or federal Storm water pollution prevention regulations
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28-48, KDHE, KDEM
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

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## **Assessment Analysis:**

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

# Assessment Analysis

Public Water Supply: **MCPHERSON, CITY OF**  
 Assessment Area: **84**

## Ground Water Multiple Wells Analysis

**A** – Microbiological    **B** – Inorganic Compounds  
**B\*** – Nitrates            **C** – Synthetic Organic Compounds  
**C\*** – Pesticides        **D** – Volatile Organic Compounds

No.	Question	Response	A	B	B*	C	C*	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	No	0	0	0	0	0	0
5	Does a PWS own or control all the areas around the wells?	Yes	0	0	0	0	0	0
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	Yes	1	1	1	1	1	1
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures?	No	1	0	1	0	0	0
17	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	B	B*	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
26	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
29	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
39	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

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## **Site Comments:**

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

# Site Comments

Public Water Supply: MCPHERSON, CITY OF  
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## Comments for Unregulated Sites

Did Not Receive Any Comments

## Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
O.K. Corral	2002626	This is a large cattle facility that has no groundwater monitoring. Review for possible groundwater monitoring requirement for next permit.	Nicole Fisher

## Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

## Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Butterfield Construction	3001525	The site is closed from a gasoline and diesel leak in 1991. No groundwater contamination was suspected.	Nicole Fisher

## Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
John's Motor Service	3001099	The site is closed from a used motor oil spill in 1989. No groundwater contamination was suspected.	Nicole Fisher
Kerr-mcgee #8427	3000671	The site is closed from a leak in 1989. No groundwater contamination was suspected.	Nicole Fisher
Keystone Railway Equip	3000934	The site is closed from a leak in 1990. No groundwater contamination was suspected.	Nicole Fisher
Mcperson Concrete Products	3000375	The site is closed from a diesel leak in 1990. No groundwater contamination was suspected. The tanks were removed.	Nicole Fisher
Mcperson, Bd Public Utilities	3001341	The site is closed from a diesel leak in 1990. No groundwater contamination was suspected. The tanks were removed.	Nicole Fisher
Mid Kansas Coop, Mcpherson	3000638	The site is currently being monitored from a leak in 1997. A domestic water well is within .25 miles downgradient of the leak. No groundwater contamination was suspected.	Nicole Fisher
Moody Oil	3000113	The site is closed from a gasoline leak in 1991. No groundwater contamination was suspected.	Nicole Fisher
Texaco, Rays Service	3001692	The site is closed from a gasoline leak in 1992. No contamination was detected in the groundwater, but high levels of gasoline were detected at a depth of 15'.	Nicole Fisher

## Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
CRANKSHAFT DIE AND ENGINEERING	7000786	The site contained soils high in the heavy metal chromium. Soils were excavated and the wells were plugged.	Nicole Fisher
MCPHERSON PWS #7	7000795	Elevated levels of tetrachloroethylene, TCE, DCE, TCA have been found in the well since 1980s.	Nicole Fisher

## Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
TIDY LAUNDRY	7000785	This site currently is undergoing remediation due to elevated levels of PCE in the soil, public water supply, and groundwater.	Nicole Fisher

## Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
NCRA	5000419	This solid waste facility is privately owned.	Nicole Fisher

## Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BPU – (MCPHERSON) WT AIR STRIPPER	6000728	This industrial waste water treatment facility doesn't frequently discharge.	Nicole Fisher
BPU – MCPHERSON #2	6000727	This industrial waste water treatment facility doesn't frequently discharge. The discharge levels are good.	Nicole Fisher
MC PHERSON MWTP	6001367	This mechanical water treatment plant discharges into the Little Arkansas River by way of the Dry Turkey Creek into the Turkey Creek.	Nicole Fisher

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### **Added Site Comments:**

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

# Added Site Comments

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 84

## Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Irrigation equipment, pump site, and well	9000382	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
abandoned water well	9000385	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
airport runway	9000386	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
irrigated cropland of corn	9000383	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000384	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
wheat field	9000379	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher

Public Water Supply: **MCPHERSON, CITY OF**  
Assessment Area: **84**  
Diversion Id's: **013, 014, 012, 011, 010, 007**  
Status: **Accepted**  
Submit Date: **2002-11-22 13:36:43**

## **Analysis Question Comments:**

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

# Analysis Question Comments

Public Water Supply: MCPHERSON, CITY OF  
Assessment Area: 84

## Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did Not Receive Any Comments		