Williams Petroleum Services, LLC
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April 24, 2008

Mr. Kenneth Herstowski
Environmental Protection Agency
901 N. Fifth Street
Kansas City, Kansas 66101

Re: Quarterly Update – 1st Quarter 2008
Former Augusta Refinery (FAR) RCRA Facility Investigation (RFI)
Williams Petroleum Services (WPS), LLC
Augusta, Kansas – KSD007235138

Dear Mr. Herstowski:

This letter is offered as the report of investigation activities at the Former Augusta Refinery in accordance with Section X, "Reporting," of the Administrative Order on Consent dated October 24, 2003, Docket No. RCRA-07-2004-0009. This report addresses activities occurring during the period of January 1 through March 31, 2008.

Description of Activities

The following field activities were completed, and if appropriate, in accordance with respective Sampling and Analysis Plans (SAPs):

- January 10, arranged for transport and disposal of 74 drums of non-hazardous soil generated from field activities associated with AOCs 5 (Leaded Tank Bottom Disposal Areas), B (Former Landfill North of Effluent Oxidation Pond), and D (Asphaltic Materials Disposal Area), and SWMUs 8 (East Landfill), 9 (Industrial Landfill Cell 1-7), and 17 (Asphalt Landfill).

- January 10 and 11, collected 22 additional surface soil samples for TEL analysis to determine contamination extent associated with AOCs 1 (Surface Water Drainage Ditches), 5, C (Former Pond Areas), E (Sludge Pond), and F (Surface Staining) and SWMU 4 (East Landfarm).

- January 14 thru 16, collected As samples from AOC-5 for risk assessment and extent determination.

- Feb 29, collected 4 TEL samples from AOC-5, C, and F for determination of contamination extent.

Summary of All Findings

An investigation progress summary for AOC 5 is included as ***Table 1***.

Summaries of All EPA Approved Changes

None

Summaries of All Contacts

- January 23, WPS electronically forwarded to EPA a planned response to an inquiry by the City of Augusta regarding environmental site assessment progress at the Former Augusta Refinery site.
- February 1, WPS electronically forwarded to EPA the quarterly report for the period ending December 31, 2007 and requested status on EPA's review of the planned response to the inquiry from the City of Augusta on site progress.
- February 25, WPS electronically forwarded to Mr. Bill Keefer, City Manager, City of Augusta a letter report on the progress of the environmental assessment at the Former Augusta Refinery site.
- March 3, WPS electronically forwarded to KDHE the responses to KDHE comments on Phase III Work Plan – Walnut River, and Human health Risk Assessment, Former Augusta Refinery. The transmittal letter reiterated the existence of a confidential agreement between WPS and ExxonMobil for site investigation and remediation and identified work plans and reports to be submitted to EPA and KDHE in the coming months.

Summaries of Problems Encountered

None

Actions to Rectify Problems

None

Changes in key project entities

None

Projected Work for the Next Reporting Period

Completion of the SAP for the site-wide groundwater was delayed for further revision and will be finalized during the second quarter of 2008 for subsequent submittal to EPA and KDHE. Revisions to the Human health Risk assessment Work Plan will also be completed during the second quarter of 2008 for submittal to EPA and KDHE. Preparation of the River Soil Sampling and Analysis Plan will be completed and submitted to EPA and KDHE by April 30, 2008.

Field investigations for the following units will be performed or initiated during the next reporting period:

- Initiate implementation of Groundwater SAP upon concurrence from EPA.

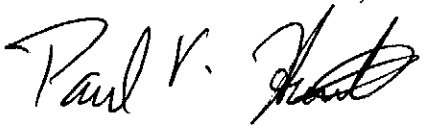
Other Relevant Documentation

None

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to evaluate the information submitted. I certify that the information contained in or accompanying this submittal is true, accurate, and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with the procedures designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please provide all written correspondence regarding this Quarterly Update directly to Mr. Phil Roberts with Williams Petroleum Services, LLC. If you have any questions, do not hesitate to contact Mr. Roberts at (918) 573-0757.

Sincerely,
Williams Petroleum Services, LLC



Paul V. Hunter
Vice President
Williams Petroleum Services, LLC

Enclosures

c: Mark deLorimier, Shaw Environmental, Inc.

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-02	10/1/2007	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in eight surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.2 to 9.8 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 2.7 to 8.8 mg/kg, less than the Region 9 PRG DAF 20 for arsenic (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset for was determined to be statistically less than the background dataset.	▪ No groundwater samples were collected in the AOC 5 subgroup 02.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in the AOC 5 subgroup 02.				

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface/Sediment Soil	**Subsurface Soil**	**Groundwater**
AOC 5-03	07/20/07 - 08/03/07	▪ **Arsenic** concentrations in the eight surface/sediment samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in six surface/sediment samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.2 to 11.6 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	▪ **Arsenic** concentrations in the two subsurface samples analyzed were 3.9 and 5.5 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic results were below the 95% UCL of the mean background concentration for arsenic (5.54 mg/kg).	▪ **Dissolved arsenic** concentrations were greater than the Region 9 PRG for tap water value (0.045 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 3.0 and 6.5 ug/L. The dissolved arsenic concentration in one sample was also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: Eight surface/sediment samples and two subsurface samples were collected for the analysis of arsenic and organic lead. Only surface/sediment samples were collected in areas of standing surface water. Soil borings that fell in the areas of SWMU-6 and AOC-C were not sampled. Two temporary monitor wells were installed for the collection of groundwater samples.		▪ **Organic lead** concentrations in the eight surface/sediment samples were less than the laboratory reporting limit.	▪ **Organic lead** concentrations were less than the laboratory reporting limit in the two samples analyzed.	▪ **Benzene** concentrations were greater than the Region 9 PRG for tap water value (0.35 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 0.36 and 7.4 ug/L.
				▪ **Naphthalene** concentrations were greater than the Region 9 PRG for tap water value (6.2 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 53.6 and 110 ug/L.

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface/Sediment Soil	Subsurface Soil	Groundwater
AOC 5-04	10/02/07 - 01/15/08	• **Arsenic** concentrations in the 20 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in 15 surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.3 to 99.0 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	• **Arsenic** concentrations in the 10 subsurface samples ranged from 3.9 to 6.6 mg/kg, less than the Region 9 PRG DAF 20 for arsenic (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	• No groundwater samples were collected in the AOC 5 subgroup 04.
Total samples collected: 20 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in the AOC 5 subgroup 04.				

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	Subsurface Soil	Groundwater
AOC 5-06	10/3/2007	• **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in nine surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.1 to 11.2 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	• **Arsenic** concentrations in the 10 subsurface samples ranged from 4.0 to 9.1 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	• No groundwater samples were collected in the AOC 5 subgroup 06.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in the AOC 5 subgroup 06.				

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Former Augusta Refinery, Augusta, Kansas
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AOC / SWMU ID	Investigation Dates	Results		
		Surface/Sediment Soil	**Subsurface Soil**	**Groundwater**
AOC 5-07	07/20/07 - 08/06/07	• **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in four surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.6 to 10.8 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	• **Arsenic** concentrations in the five subsurface samples ranged from 4.0 to 8.2 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	• **Dissolved arsenic** concentration was greater than the Region 9 PRG for tap water value (0.045 ug/L) in the groundwater sample from the one temporary well sampled with a reported result of 13.9 ug/L. The dissolved arsenic concentration was also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: 10 surface/sediment and five subsurface samples were collected and analyzed for arsenic. Only surface/sediment samples were collected in areas of standing surface water. Two temporary monitor wells were installed for the collection of groundwater samples. One of the wells was dry.				

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface/Sediment Soil	**Subsurface Soil**	**Groundwater**
AOC 5-10	07/19/07 - 01/15/08	▪ **Arsenic** concentrations in the 20 surface/sediment samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in nineteen surface/sediment samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.2 to 42.2 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	▪ **Arsenic** concentration in one subsurface sample was 35.9 mg/kg, greater than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ No groundwater samples were collected in the AOC 5 subgroup 10.
Total samples collected: 10 surface/sediment samples and seven subsurface samples were collected for the analysis of arsenic, organic lead, and chrysene. An additional 10 surface samples were collected for the analysis of arsenic. Only surface/sediment samples were collected in areas of standing surface water. No groundwater samples were collected in the AOC 5 subgroup 10.		▪ **Organic lead** concentrations in the two surface/sediment samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg) with results of 0.220 and 0.430 mg/kg.	▪ **Organic lead** concentrations in the seven subsurface soil samples were less than the laboratory reporting limit.	
		▪ **Chrysene** concentrations were reported in seven of the 10 surface soil samples and ranged from 0.028 to 2.87 mg/kg, all below the Region 9 PRG direct soil exposure for **chrysene** (210 mg/kg).	▪ **Chrysene** concentrations were reported in three of the seven subsurface soil samples and ranged from 0.021 to 0.936 mg/kg, all below the Region 9 PRG DAF 1 for **chrysene** (160 mg/kg).	

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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-11	10/3/2007 - 10/04/07	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in seven surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.4 to 22.9 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.8 to 9.3 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ No groundwater samples were collected in the AOC 5 subgroup 11.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in the AOC 5 subgroup 11.				

Table 1
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Former Augusta Refinery, Augusta, Kansas
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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-12	07/19/07 - 08/02/07	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in three surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.4 to 6.8 mg/kg The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.6 to 6.7 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Dissolved arsenic** concentrations were greater than the Region 9 PRG for tap water value (0.045 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 30.9 and 64.0 ug/L. The dissolved arsenic concentrations in both samples were also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: 10 surface and 10 subsurface samples were collected for the analysis of arsenic and organic lead. Two temporary monitor wells were installed for the collection of groundwater samples.		▪ **Organic lead** concentrations in two surface samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg) with results of 0.100 and 0.240 mg/kg.	▪ **Organic lead** concentrations were reported in three of the subsurface samples collected, ranging from 0.037 to 1.700 mg/kg. All other subsurface soil samples were less than the laboratory reporting limit.	▪ **Benzene** concentrations were greater than the Region 9 PRG for tap water value (0.35 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 2250 and 2920 ug/L.
				▪ **Xylene** concentrations were greater than the Region 9 PRG for tap water value (210 ug/L) in groundwater samples from one of the temporary wells sampled with a reported result of 926 ug/L.
				▪ **Naphthalene** concentrations were greater than the Region 9 PRG for tap water value (6.2 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 54.3 and 60.0 ug/L.

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Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-13	07/18/07 - 01/15/08	▪ **Arsenic** concentrations in the 20 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in 18 surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.3 to 42.6 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset.	▪ **Arsenic** concentrations in the nine subsurface samples ranged from 3.8 to 8.5 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Dissolved arsenic** concentration was greater than the Region 9 PRG for tap water value (0.045 ug/L) in the groundwater sample from the the temporary well sampled with a reported result of 40.0 ug/L. The dissolved arsenic concentration was also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: 10 surface and nine subsurface samples were collected for the analysis of arsenic, chrysene, and organic lead. An additional 10 arsenic and two organic lead surface samples were collected. One temporary monitor well was installed for the collection of a groundwater sample.		▪ **Organic lead** concentrations in four surface samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg), with results of 0.087 to 0.160 mg/kg.	▪ **Organic lead** concentrations in the nine subsurface soil samples collected were all less than the laboratory reporting limit.	▪ **Benzene** concentration was greater than the Region 9 PRG for tap water value (0.35 ug/L) in the groundwater sample from the one temporary well with a reported result of 0.57 ug/L.
		▪ **Chrysene** concentrations were reported in the 10 surface soil samples and ranged from 0.0307 to 11.3 mg/kg, all below the Region 9 PRG direct soil exposure for **chrysene** (210 mg/kg).	▪ **Chrysene** concentrations were reported in four of the nine subsurface soil samples and ranged from 0.0159 to 0.493 mg/kg, all below the Region 9 PRG DAF 1 for **chrysene** (160 mg/kg).	▪ **2-methylnaphthalene** concentration was greater than the Region 9 PRG for tap water value (150 ug/L) in the groundwater sample from the one temporary well sampled with a reported result of 196 ug/L.
				▪ **Naphthalene** concentration was greater than Region 9 PRG for tap water value (6.2 ug/L) in groundwater sample from the one temporary well sampled with a reported result of 83.5 ug/L.

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Former Augusta Refinery, Augusta, Kansas
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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-14	07/18/07 - 01/11/08	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in three surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.1 to 9.9 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 2.8 to 18.4 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Dissolved arsenic** concentration was greater than the Region 9 PRG for tap water value (0.045 ug/L) in the groundwater sample from the one temporary well sampled with a reported result of 8.0 ug/L. The dissolved arsenic concentration was also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: 10 surface and 10 subsurface samples were collected for the analysis of arsenic and organic lead. An additional three organic lead surface samples were collected. Two temporary monitor wells were installed for the collection of groundwater samples. Product was observed in one of the wells,		▪ **Organic lead** concentrations in eight surface samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg) with results ranging from 0.100 and 7.10 mg/kg.	▪ **Organic lead** concentrations were reported in one of the subsurface samples collected with a result of 0.026 mg/kg. All other subsurface soil samples were less than the laboratory reporting limit.	▪ **Benzene** concentration was greater than the Region 9 PRG for tap water value (0.35 ug/L) in the groundwater sample from the one temporary well sampled with a reported result of 15.6 ug/L.

Table 1
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Former Augusta Refinery, Augusta, Kansas
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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-15	07/17/07 - 01/16/08	▪ **Arsenic** concentrations in the 20 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in nine surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg) with results of 6.9 and 62.8 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.9 to 17.7 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Dissolved arsenic** concentrations were greater than the Region 9 PRG for tap water value (0.045 ug/L) in groundwater samples from the two temporary wells sampled with reported results of 9.6 and 39.5 ug/L. The dissolved arsenic concentration in one sample was also greater than the 95 percent UCL of the mean background concentration for dissolved arsenic (3.63 ug/L).
Total samples collected: 10 surface and 10 subsurface samples were collected for the analysis of arsenic and organic lead. An additional 10 surface samples were collected for the analysis of arsenic. Two temporary monitor wells were installed for the collection of groundwater samples.		▪ **Organic lead** concentrations in six surface samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg) with results ranging from 0.075 to 4.30 mg/kg.	▪ **Organic lead** concentrations were reported in two of the subsurface samples collected with results of 0.032 and 0.094 mg/kg. All other subsurface soil samples were less than the laboratory reporting limit.	▪ **Benzene** concentrations were greater than the Region 9 PRG for tap water value (0.35 ug/L) in the groundwater samples from the two temporary wells sampled with reported results of 20.5 and 167 ug/L.

Table 1
FAR Facility Investigation Progress Summary
Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	**Subsurface Soil**	**Groundwater**
AOC 5-16	07/16/07 - 02/28/08	▪ **Arsenic** concentrations in nine surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in two surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg) with results of 6.5 and 6.7 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.7 to 5.5 mg/kg, less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	▪ Product was detected in both monitor wells, and no groundwater samples were collected in AOC 5 subgroup 16.
Total samples collected: 10 surface and 10 subsurface samples were collected for the analysis of arsenic, lead, and organic lead. An additional three surface samples were collected for the analysis of organic lead. Two temporary monitor wells were installed for the collection of groundwater samples. Product was detected in both monitor wells, and no groundwater samples were collected in the AOC 5 subgroup 16.		▪ **Organic lead** concentrations in seven surface samples were greater than the Region 9 PRG direct soil exposure (0.062 mg/kg) with results ranging from 0.072 to 3.60 mg/kg.	▪ **Organic lead** concentrations were reported in three of the subsurface samples collected with results ranging from 0.029 and 0.150 mg/kg. All other subsurface soil samples were less than the laboratory reporting limit.	
		▪ **Lead** concentrations were reported in the 10 surface soil samples and ranged from 13.9 to 472 mg/kg, all below the Region 9 PRG direct soil exposure for **lead** (800 mg/kg).	▪ **Lead** concentration in four subsurface samples were greater than the 95 percent UCL of the mean background concentration for **lead** (11.36 mg/kg) with results ranging from 12.8 to 118 mg/kg. The lead dataset was determined to be statistically greater than the background dataset.	

Table 1
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Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	Subsurface Soil	Groundwater
AOC 5-17, 18, and 19	10/4/2007	• **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in seven surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 2.1 to 43.1 mg/kg. The arsenic dataset was determined to be statistically greater than the background dataset for arsenic.	• **Arsenic** concentrations in the 10 subsurface samples ranged from 3.8 to 10.2 mg/kg, all less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	No groundwater samples were collected in AOC 5 subgroups 17, 18, and 19.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in AOC 5 subgroups 17, 18, and 19.				

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Former Augusta Refinery, Augusta, Kansas
Quarterly Status Report: 1st Quarter 2008

AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	Subsurface Soil	Groundwater
AOC 5-20	10/4/2007 to 10/05/07	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in seven surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.7 to 8.5 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.4 to 6.7 mg/kg, all less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	No groundwater samples were collected in AOC 5 subgroup 20.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in AOC 5 subgroup 20.				

Table 1
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AOC / SWMU ID	Investigation Dates	Results		
		Surface Soil	Subsurface Soil	Groundwater
AOC 5-21	10/4/2007 to 10/05/07	▪ **Arsenic** concentrations in the 10 surface samples were greater than the Region 9 direct soil exposure PRG (1.6 mg/kg). **Arsenic** concentrations in six surface samples were also greater than the 95 percent UCL of the mean background concentration for **arsenic** (6.05 mg/kg), ranging from 6.5 to 8.0 mg/kg. The arsenic dataset was determined to be statistically less than the background dataset.	▪ **Arsenic** concentrations in the 10 subsurface samples ranged from 3.3 to 20.0 mg/kg, all less than the Region 9 PRG DAF 20 for **arsenic** (29 mg/kg), but greater than the Region 9 PRG DAF 1 (1.0 mg/kg). The arsenic dataset was determined to be statistically less than the background dataset.	No groundwater samples were collected in AOC 5 subgroup 21.
Total samples collected: 10 surface and 10 subsurface samples were collected and analyzed for arsenic. No groundwater samples were collected in AOC 5 subgroup 21.				