

## Failure Investigation Report – Buckeye Tank 701 Line Failure – Activity ID 128252

**Principal Investigator** Chris D’Souza  
**Regional Director** Byron Coy  
**Date of Report** 03/14/2011  
**Subject** Failure Investigation Report – Buckeye Tank 701 Line Failure

### Summary:

On December 30, 2009 @ 22:40 hrs Buckeye called the NRC to report a gasoline leak from a line connected to Storage Tank 701 (Appendix 4 – NRC Report 927442). Residents from Clear View Lane numbers 2250 and 2290 reported odors in their homes on December 29, 2009 @ 21:12 hrs. This was initially reported on NRC# 927364 (Appendix 3).

Residents from four homes on Clear View Lane were evacuated by the Fire Department as a precautionary measure. The odors were emanating from the sewer line in those homes and from sewer vents on the street.

The location of the leak on the pipe was below grade on the underside of the single pipe connection to and from Tank # 701, below a valve manifold along the inside of Buckeye’s fence line on Cherry Road (Appendix 1 - Map). The leak in the pipe occurred as a result of external corrosion. Gasoline product migrated below grade to the outside of the property fence line where it entered a breach in a nearby sewage line on Cherry Tree Road.

After the discovery of the leak, the tank line was drained, the coating peeled back and the integrity of the pipe was good enough to install a temporary “Plidco” sleeve. The line was pressure tested to 128 psig on January 1, 2010, and did not leak. After the pressure test, product transfer resumed, using the temporarily repaired line, for approximately 6 hrs without additional leaks.

A trench, approximately 5 feet deep was dug between the repaired line and fence line to mitigate product plume migration. Three monitoring wells (PZ1/ PZ2 / PZ3), 15 feet deep were installed along the line directly between the failed line and fence line to monitor product. Initial product depth in PZ2 & PZ3 was about 2ft in the wells. PZ1 showed no product. The water table is approximately 8-10 feet. Additional monitoring wells are planned to delineate product plume. One monitoring hole was dug up on the residential side of Cherry Tree Road to check for any product – no product was found and the hole was filled. Approximately 386 barrels of gasoline was spilled. Fifty-two barrels were recovered. (Appendix 5 - Photos)

**Failure Investigation Report – Buckeye Tank 701 Line Failure – Activity ID 128252**

**Operator, Location, & Consequences**

<b>Date &amp; Time of Failure:</b>	12/29/2009 22:00
<b>Commodity Released:</b>	Gasoline
<b>City/County &amp; State:</b>	Aston, Delaware County, PA, 19014
<b>OpID &amp; Operator Name</b>	1845 Buckeye
<b>Unit # &amp; Unit Name</b>	20171 Booth
<b>SMART Activity #:</b>	128252
<b>Milepost / Location</b>	Latitude: 39.8652 Longitude: -75.452042
<b>Type of Failure:</b>	Pipe leak
<b>Fatalities:</b>	0
<b>Injuries</b>	0
<b>Description of area impacted</b>	Urban - Buckeye Chelsea Aston Tank Farm Property and nearby residential area
<b>Property damage / Total Costs</b>	\$2,953,327

## **Failure Investigation Report – Buckeye Tank 701 Line Failure – Activity ID 128252**

### **System Details**

Chelsea Tank Farm - 12 Breakout tanks and associated piping

### **Events Leading up to the Failure**

Buckeye Partners' (Buckeye) control center in Breinigsville, PA received a call from the Aston, PA Fire Marshall reporting gasoline odors in the area of Clearview Lane in Aston, PA (Appendix 1 - Map). Buckeye's 8" pipeline in the area (CT553JP) had been shut down earlier in the day as part of a normal, scheduled shut down and the pipeline pressure was being monitored. A detailed timeline of events can be found in Appendix 6 of this report.

### **Emergency Response**

After notification from Buckeye's control center, field personnel arrived at the site and confirmed the presence of gasoline odors. A representative of the Pennsylvania Department of Environmental Protection (PADEP) measured gas odors in several adjacent sanitary sewer manholes as well as a few nearby residences. The fire department requested the evacuation of four residences as a precaution until the vapor levels subsided.

A unified command was established by Buckeye's local operations manager. Buckeye personnel proceeded to walk the pipeline right of way and although no visible product was seen, they did detect an odor in some areas. Buckeye decided to walk the pipeline right of way again during daylight hours and to dig test holes in the areas of high vapor levels. Buckeye had a total of ten locations probed between Cherry Tree Street and Overlook Street with no product found. The test holes dug on Arbor Lane were also found to be clean of product. The PADEP representative indicated that it appeared that the problem was in the vicinity of Scott Lane because the sewer manholes on Cherry Tree Street and Frazer Street had high vapor levels. Buckeye decided to excavate the gasoline tank lines inside the adjacent Chelsea station since these pipelines were closer to Scott Street. Buckeye personnel identified high vapor levels and visible product in the excavation at the tank junction valves in Chelsea station. The release was determined to be on the tank 701 line. Buckeye installed a Plidco sleeve, which stopped the release.

### **Summary of initial start-up plan and return-to-service, including preliminary safety measures**

A temporary "Plidco" sleeve was installed on the line. The line was pressure tested to 128 psig on January 1, 2010, and did not leak. After the pressure test, product transfer resumed, using the temporarily repaired line, for approximately 6 hrs without additional leaks. An accident report was submitted by Buckeye pertaining to this event (Appendix 2). Permanent repairs were completed on February 12, 2010 by cutting out the damaged pipe and replacing it with certified pipe. The damaged pipe was sent to a laboratory for metallurgical analysis. The analysis revealed the cause of the external corrosion to be microbiological induced corrosion. Remediation is still on-going. Operation of the facility was turned over to Conoco Phillips on March 1, 2011. Additional follow-up on the contributing factors for this accident will be identified and managed by Conoco Phillips.

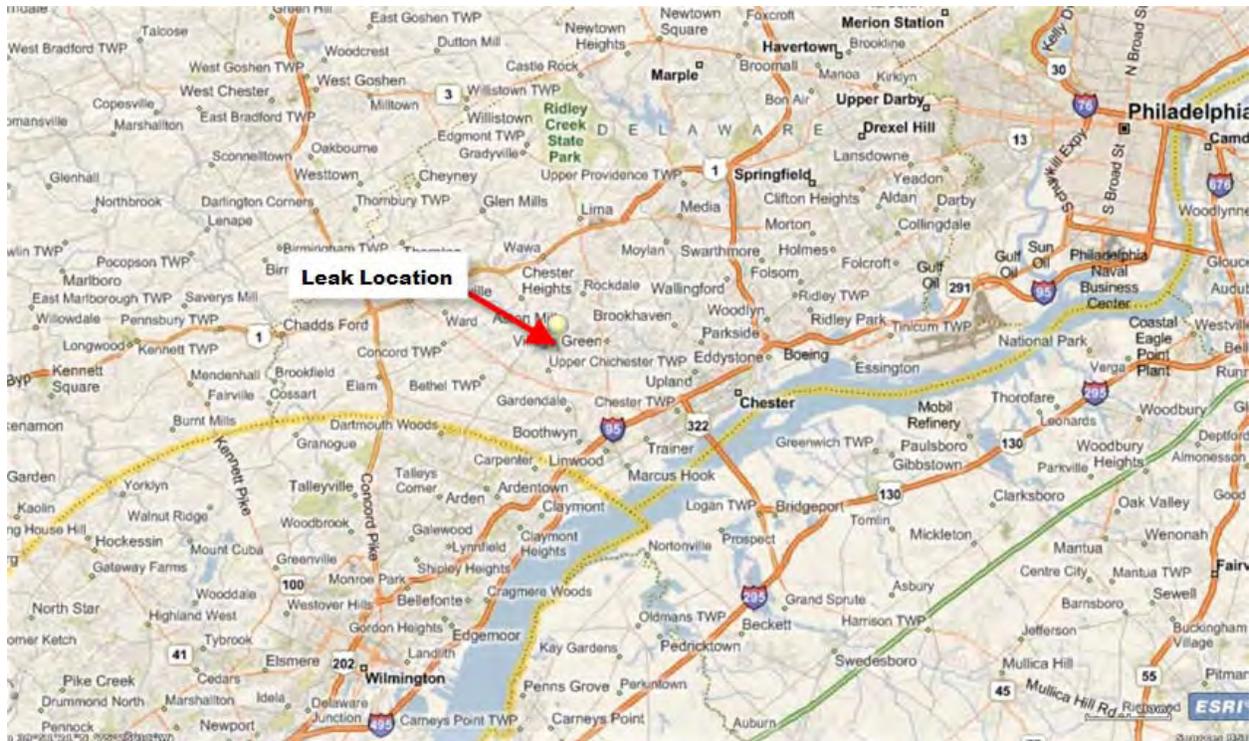
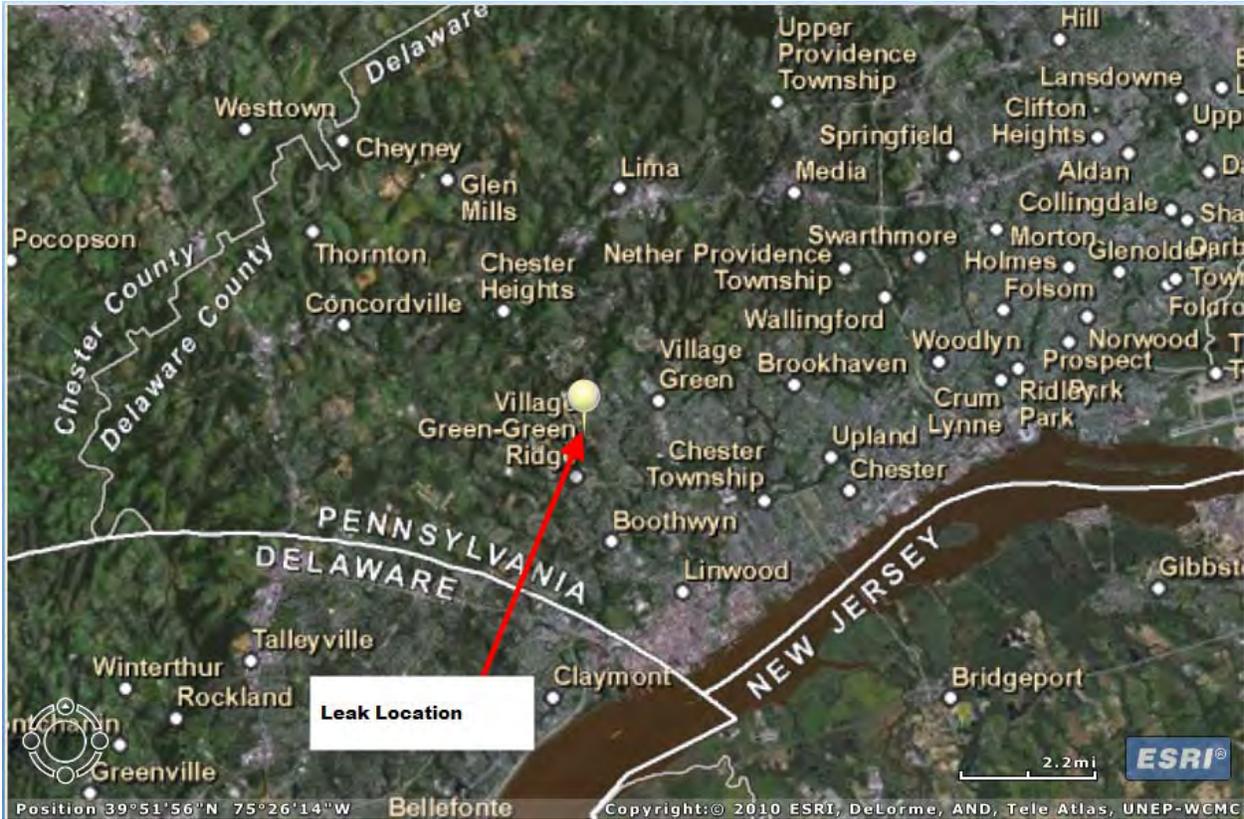
### **Investigation Findings & Contributing Factors**

The cause has been determined to be external microbiological induced corrosion. The corrosion appears to be limited to the section of piping where the failure occurred.

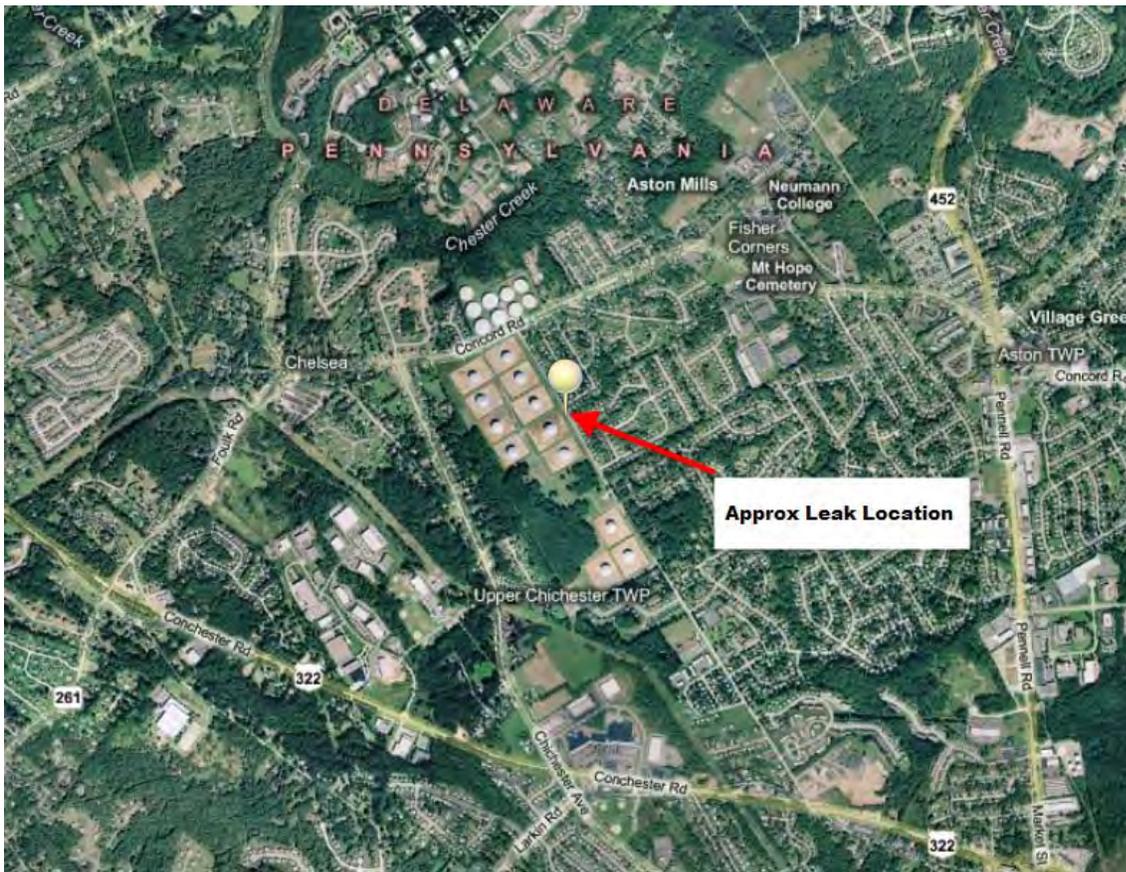
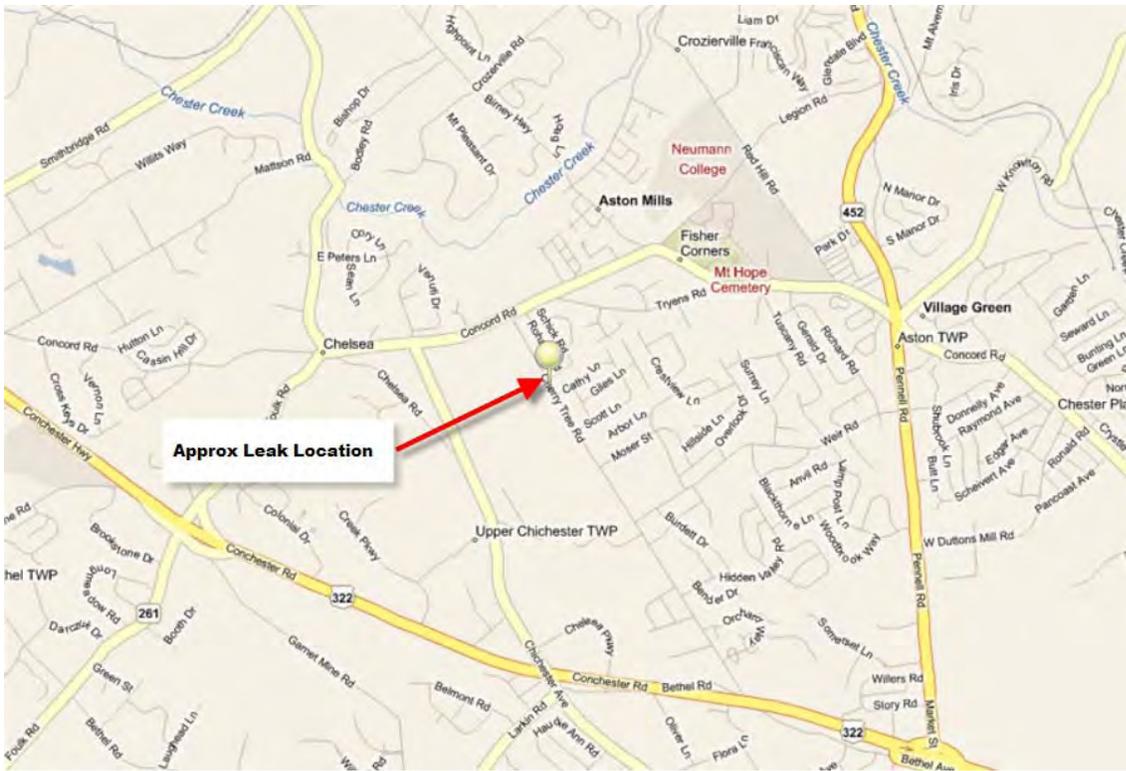
### **Appendices**

- |          |   |
|----------|---|
| <b>1</b> | Map   |
| <b>2</b> | Accident Report 20090367 - 13086            |
| <b>3</b> | NRC Report 927364                           |
| <b>4</b> | NRC Report 927442                           |
| <b>5</b> | Photos                                      |
| <b>6</b> | Accident Report 20090367 Timeline of Events |

128252 Appendix 1 Map



128252 Appendix 1 Map



128252 Appendix 1 Map



	<b>ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS</b>	Report Date	January 27, 2010
	U.S Department of Transportation Pipeline and Hazardous Materials Safety Administration	Report format corresponds to Form PHMSA F 7000-1 (01-2001)	No.

PART A – GENERAL INFORMATION					
N	Original Report	Y	Supplemental Report	N	Final Report
<b>1. Operator Name and Address</b>					
a. Operator's 5-digit Identification Number			1845		
b. If Operator does not own the pipeline, enter Owner's OPS 5-digit Identification Number (if known)					
c. Name of Operator			BUCKEYE PARTNERS, LP		
d. Operator street address			P.O. BOX 368		
e. Operator address			City EMMAUS		
			County or Parish LEHIGH		
			State PA		
			Zip code 18049		
<b>2. Time and date of the accident</b>					
			Hour 22:00		
			Date of the accident 12/29/2009		
<b>3. Location of accident</b>					
a. Latitude			39.86		
Longitude			-75.45		
b. City			ASTON		
County or Parish			DELAWARE		
c. State			PA		
Zip Code			19014		
d. Mile Post/Valve Station			0		
Survey Station No			0		
<b>4. Telephone Report</b>					
NRC Report Number			927443		
Date			12/30/09		
<b>5. Losses (Estimated)</b>					
<b>Public/Community Losses reimbursed by operator</b>					
Public/private property damage			\$ 250,381		
Cost of emergency response phase			\$ 195,243		
Cost of environmental remediation			\$ 2,140,000		
Other Costs			\$ 0		
Describe					
<b>Operator Losses</b>					
Value of product lost			\$ 28,283		
Value of operator property damage			\$ 63,620		
Other Costs			\$ 275,800		
Describe			REPAIRS		
<b>Total Costs</b>			<b>\$ 2,953,327</b>		
<b>6. Commodity Spilled</b>					
Commodity spilled (yes/no)			Y		
a. Name of commodity spilled			GASOLINE		
b. Classification of commodity spilled			GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT CONDITIONS		
c. Estimated amount of commodity involved					
Unit of Measure			BARRELS		
Amount Spilled			386.00		
Amount Recovered			52.00		
<b>CAUSES FOR SMALL SPILLS</b>			NO DATA		
<b>PART B – PREPARER AND AUTHORIZED SIGNATURE</b>					
Preparer's Name			BRAD YARZEBINSKI		

**128252 Appendix 2 Accident Report 20090367 - 13086**

Area Code and Telephone Number		6109044958	
Preparer's E-mail Address		BYARZEBINSKI@BUCKEYE.COM	
Area Code and Facsimile Number		6109044545	
<b>PART C – ORIGIN OF THE ACCIDENT</b>			
<b>1. Additional location information</b>			
a. Line segment name or ID		CT	
b. Accident on Federal Land other than Outer Continental Shelf		NO	
c. Is pipeline Interstate		Y	
Offshore		N	
d. Area			
Block #			
State			
Outer Continental Shelf		N	
<b>2. Location of system involved</b>			
Operator's Property		YES	
Pipeline Right of Way		N	
High Consequence Area (HCA)		Y	
Describe HCA		HIGH POPULATION	
<b>3. Part of system involved in accident</b>			
Other (specify)		PUMP/METER STATION	
<b>If failure occurred on Pipeline, complete items a-g</b>			
a. Leak or Rupture			
Type of Leak			
- Puncture, diameter ( <i>inches</i> )			
Type of Rupture			
- Tear/Crack, length ( <i>inches</i> )			
- Propagation Length, total, both sides ( <i>feet</i> )			
Other (specify)			
b. Type of block valve used for isolation immediate section			
Upstream			
Manual		NO	
Automatic		NO	
Remote Control		NO	
Check Valve		NO	
Downstream			
Manual		NO	
Automatic		NO	
Remote Control		NO	
Check Valve		NO	
c. Length of segment isolated		(ft)	
d. Distance between valves		(ft)	
e. Is segment configured for internal inspection tools?			
f. Had there been an in-line inspection device run at the point of failure?			
g. If Yes, type of device run			
High Resolution Magnetic Flux tool	NO	Year run	
Low Resolution Magnetic Flux tool	NO	Year run	
UT tool	NO	Year run	
Geometry tool	NO	Year run	
Caliper tool	NO	Year run	
Crack tool	NO	Year run	
Hard Spot tool	NO	Year run	
Other tool	NO	Year run	
<b>4. Failure occurred on</b>			
Other (specify)		BODY OF PIPE	
Year the component that failed was installed		1947	
<b>5. Maximum operating pressure (MOP)</b>			
a. Estimated pressure at point and time of		40	

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accident	(PSIG)	
b. MOP at time of accident	(PSIG)	305.00
c. Did an over pressurization occur relating to the accident?		N
<b>PART D – MATERIAL SPECIFICATION</b>		
1. Nominal pipe size (NPS)	(inches)	12
2. Wall thickness	(inches)	.3
3. Specification		API 5L GRADE B
	SMYS	35000
4. Seam type		SEAMLESS
5. Valve type		
6. Manufactured by		
	in year	
<b>PART E - ENVIRONMENT</b>		
1. Area of accident		UNDER GROUND
Other (specify)		
2. Depth of cover	(inches)	72
<b>PART F - CONSEQUENCES</b>		
<b>1. Consequences</b>	<b>Fatalities</b>	<b>Injuries</b>
a. Number of operator employees	0	0
Contractor employees working for operator	0	0
General public	0	0
<b>Totals</b>	0	0
b. Was pipeline/segment shutdown due to leak?	Y	
If Yes, how long?	Days	1
	Hours	18
	Minutes	0
c. Product ignited	Gas did not Ignite	
d. Explosion	NO EXPLOSION	
e. Evacuation ( <i>general public only</i> )	Y	
	Number of people	10
Reason for Evacuation	EVACUATION REQUIRED OR INITIATED BY PUBLIC OFFICIAL	
f. Elapsed time until area was made safe		
	Hours	35
	Minutes	15
<b>2. Environmental Impact</b>		
a. Wildlife Impact		
Fish/aquatic	N	
Birds	N	
Terrestrial	N	
b. Soil Contamination	Y	
If Yes, estimated number of cubic yards	250	
c. Long term impact assessment performed	Y	
d. Anticipated remediation	Y	
If Yes, check all that apply		
Surface Water	N	
Groundwater	Y	
Soil	Y	
Vegetation	N	
Wildlife	N	
e. Water Contamination	Y	
Amount in water (barrels)	.1	
Ocean/Seawater		
Surface		
Groundwater	Y	
Drinking water	Y	
Drinking water source	PRIVATE WELL	
<b>PART G – LEAK DETECTION INFORMATION</b>		
1. Computer based leak detection capability in place?	N	
2. Was the release initially detected by?	A THIRD PARTY	
Other (specify)		

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3. Estimated leak duration	Days	1
	Hours	4
<b>PART H – APPARENT CAUSE</b>		
<b>H1 – CORROSION</b>		
1. External Corrosion		Yes
2. Internal Corrosion		
<b>Complete items a-e where applicable</b>		
a. Pipe Coating		COATED
b. Visual Examination		LOCALIZED PITTING
Other (specify)		
c. Cause of Corrosion		MICROBIOLOGICAL
Other (specify)		
d. Was corroded part of pipeline considered to be under cathodic protection prior to discovering accident?		Y
Year Protection Started		1967
e. Was pipe previously damaged in the area of corrosion?		N
Estimated time prior to accident	Years	
	Months	
<b>H2 – NATURAL FORCES</b>		
3. Earth Movement		
Description		
Other (specify)		
4. Lightning		
5. Heavy Rains/Floods		
Description		
Other (specify)		
6. Temperature		
Description		
Other (specify)		
7. High Winds		
<b>H3 – EXCAVATION DAMAGE</b>		
8. Operator Excavation Damage (including their contractors / Not Third Party)		
9. Third Party		
a. Excavator group		
b. Type		
Other (specify)		
c. Excavation was		
d. Excavation was ongoing activity (Month or longer)		
If Yes, Date of last contact		
e. Did operator get prior notification of excavation activity?		
If Yes; Date received		null
Notification received from		
f. Was pipeline marked?		
i. Temporary markings		
ii. Permanent markings		
iii. Marks were		
iv. Were marks made within required time?		
<b>H4 – OTHER OUTSIDE FORCE DAMAGE</b>		
10. Fire/Explosion as primary cause of failure		
Fire/Explosion cause		
11. Car, truck or other vehicle not relating to excavation activity damaging pipe		
12. Rupture of Previously Damaged Pipe		
13. Vandalism		
<b>H5 – MATERIAL AND/OR WELD FAILURES</b>		
<b>Material</b>		
14. Body of Pipe		
Description		

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Other (specify)	
15. Component	
Description	
Other (specify)	
16. Joint	
Description	
Other (specify)	
<b>Weld</b>	
17. Butt	
Description	
Other (specify)	
18. Fillet	
Description	
Other (specify)	
19. Pipe Seam	
Description	
Other (specify)	
<b>Complete a-g if you indicate any cause in part H5</b>	
a. Type of failure	
Construction Defect	NO DATA
Description	
Material Defect	NO DATA
b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site?	
c. Was part which leaked pressure tested before accident occurred?	
d. Date of test	
	Year
	Month
	Day
e. Test medium	
Other (specify)	
f. Time held at test pressure (hr)	
g. Estimated test pressure at point of incident (PSIG)	
<b>H6 – EQUIPMENT</b>	
20. Malfunction of Control/Relief Equipment	
Description	
Other (specify)	
21. Threads Stripped, Broken Pipe Coupling	
Description	
Other (specify)	
22. Seal Failure	
Description	
Other (specify)	
<b>H7 – INCORRECT OPERATION</b>	
23. Incorrect Operation	
a. Type	
Other (specify)	
b. Number of employees involved who failed a post-accident test	
Drug test	
Alcohol test	
<b>H8 - OTHER</b>	
24. Miscellaneous	
Describe	
25. Unknown	
Describe	
<b>PART I – NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT</b>	
ON DECEMBER 29, 2009 AT 10:00 P.M., BUCKEYE PARTNERS' (BUCKEYE) CONTROL CENTER IN BREINIGSVILLE, PA RECEIVED A CALL FROM THE ASTON, PA FIRE MARSHALL REPORTING GASOLINE ODORS IN THE AREA OF CLEARVIEW LANE IN ASTON, PA. BUCKEYE'S 8" PIPELINE IN THE AREA (CT553JP) HAD BEEN SHUT DOWN EARLIER IN THE DAY AS PART OF A NORMAL,	

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SCHEDULED SHUT DOWN AND THE PIPELINE PRESSURE WAS BEING MONITORED. AFTER NOTIFICATION FROM BUCKEYE'S CONTROL CENTER, FIELD PERSONNEL ARRIVED AT THE SITE AND CONFIRMED THE PRESENCE OF GASOLINE ODORS. AT 12:45 A.M. ON DECEMBER 30, 2009, A REPRESENTATIVE OF THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) MEASURED GAS ODORS IN SEVERAL ADJACENT SANITARY SEWER MANHOLES AS WELL AS A FEW NEARBY RESIDENCES. THE FIRE DEPARTMENT REQUESTED THE EVACUATION OF FOUR RESIDENCES AS A PRECAUTION UNTIL THE VAPOR LEVELS SUBSIDED. AT 1:40 A.M. ON DECEMBER 30, 2009 A UNIFIED COMMAND WAS ESTABLISHED BY BUCKEYE'S LOCAL OPERATIONS MANAGER. BUCKEYE PERSONNEL PROCEEDED TO WALK THE PIPELINE RIGHT OF WAY AND ALTHOUGH NO VISIBLE PRODUCT WAS SEEN, THEY DID DETECT AN ODOR IN SOME AREAS. BUCKEYE DECIDED TO WALK THE PIPELINE RIGHT OF WAY AGAIN DURING DAYLIGHT HOURS AND TO DIG TEST HOLES IN THE AREAS OF HIGH VAPOR LEVELS. BY NOON ON DECEMBER 30, 2009, BUCKEYE HAD A TOTAL OF TEN LOCATIONS PROBED BETWEEN CHERRY TREE STREET AND OVERLOOK STREET WITH NO PRODUCT FOUND. THE TEST HOLES DUG ON ARBOR LANE WERE ALSO FOUND TO BE CLEAN OF PRODUCT. AT 12:28 P.M. ON DECEMBER 30, 2009, THE PADEP REPRESENTATIVE INDICATED THAT IT APPEARED THAT THE PROBLEM WAS IN THE VICINITY OF SCOTT LANE BECAUSE THE SEWER MANHOLES ON CHERRY TREE STREET AND FRAZER STREET HAD HIGH VAPOR LEVELS. BUCKEYE DECIDED TO EXCAVATE THE GASOLINE TANK LINES INSIDE THE ADJACENT CHELSEA STATION SINCE THESE PIPELINES WERE CLOSER TO SCOTT STREET. AT 10:00 P.M. ON DECEMBER 30, 2009 BUCKEYE PERSONNEL IDENTIFIED HIGH VAPOR LEVELS AND VISIBLE PRODUCT IN THE EXCAVATION AT THE TANK JUNCTION VALVES IN CHELSEA STATION. THE RELEASE WAS DETERMINED TO BE ON THE TANK 701 LINE. AT 1:30 A.M. ON DECEMBER 31, 2009, BUCKEYE INSTALLED A PLIDCO SLEEVE, WHICH STOPPED THE RELEASE. AT NOON ON DECEMBER 31, 2009, ALL RESIDENTS WERE CLEARED TO SAFELY RETURN TO THEIR HOMES. ON JANUARY 1, 2010, THE LOCAL SEWER AUTHORITY CONFIRMED AT LEAST THREE BREACHES IN THE SANITARY SEWER LINE LOCATED UNDER CHERRY TREE STREET. THESE BREACHES ALLOWED GASOLINE FROM THE RELEASE TO GET INTO THE SANITARY SEWER SYSTEM. THE LOCAL SEWER AUTHORITY IS PRESENTLY IN THE PROCESS OF REPAIRING THE SEWER SYSTEM IN THIS AREA. BUCKEYE CONTINUES TO MONITOR THE PLIDCO SLEEVE TWICE DAILY UNTIL PERMANENT REPAIRS CAN BE COMPLETED, WHICH IS SCHEDULED FOR THE WEEK OF FEBRUARY 8, 2010. BUCKEYE HAS DUG NUMEROUS TEST WELLS AND CONTINUES TO WORK ON BOTH THE REMEDIATION OF THE RELEASE AND DETERMINING THE ESTIMATED VOLUME. BUCKEYE NOTIFIED ALL APPROPRIATE OUTSIDE AGENCIES OF THIS INCIDENT. PERMANENT REPAIRS WERE COMPLETED ON FEBRUARY 12, 2010 BY CUTTING OUT THE DAMAGED PIPE AND REPLACING IT WITH CERTIFIED PIPE. THE DAMAGED PIPE HAS BEEN SENT TO A LABORATORY FOR METALLURGICAL ANALYSIS. METALLURGICAL ANALYSIS REVEALED THE CAUSE OF THE EXTERNAL CORROSION TO BE MICROBIOLOGICALLY INDUCED CORROSION. REMEDIATION IS STILL ON-GOING. OPERATION OF THE FACILITY WAS TURNED OVER TO CONOCOPHILLIPS ON 3-1-11.

128252 Appendix 3 NRC report 927364



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Rescinded **Comments** (max 250 characters)

**NRC Number:** 927364  
**Call Date:** 12/30/2009 **Call Time:** 09:05:27

**Caller Information**

First Name: BILL Last Name: BENNICK  
 Company Name: DELAWARE COUNTY 911  
 Address: 360 NORTH OLD MIDDLETOWN  
 City: LIMA State: PA  
 Country: USA Zip: 19063  
 Phone 1: 6108928400 Phone 2:  
 Organization Type: LOCAL Is caller the spiller?  Yes  No  No Response  
 Confidential:  Yes  No  No Response

**Discharger Information**

First Name: Last Name: UNKNOWN  
 Company Name: BUCKEYE PIPELINE  
 Address:  
 City: State: XX  
 Country: USA Zip:  
 Phone 1: Phone 2:  
 Organization Type: UNKNC

**Spill Information**

State: PA County: DELAWARE  
 Nearest City: ASTON TWP Zip Code:

Location

2290 CLEARVIEW LN

Spill Date: 12/29/2009 (mm/dd/yyyy) Spill Time: 21:12:00 (24hh:mm:ss)

DTG Type: DISCOVERED

Incident Type: FIXED FACILITY Reported Incident Type: FIXED FACILITY

Description

128252 Appendix 3 NRC report 927364

CALLER IS REPORTING A SMELL OF GASOLINE IN A BASEMENT AT A PRIVATE RESIDENCE.  
CALLER STATES THAT THEY SUSPECT A LOCAL PIPELINE IS THE SOURCE OF THE ODOR.

Materials Involved

Material / Chris Name	Chris Code	Total Qty.	Water Qty.
UNKNOWN MATERIAL	UNK	0 UNKNOWN AMOUNT	

Medium Type:

AIR

Additional Medium Information:

ATMOSPHERE

Injuries:

Fatalites:

Evacuations:  Yes  No  Unknown

No. of Evacuations: 10

Damages:  Yes  No  Unknown

Damage Amount:

Federal Agency Notified:  Yes  No  Unknown

State Agency Notified:  Yes  No  Unknown

Other Agency Notified:  Yes  No  Unknown

Remedial Actions

CALLER STATES THAT THE SOURCE OF THE ODOR IS UNDER INVESTIGATION AND THAT 3 TO 4 HOUSES HAVE BEEN EVACUATED.

Additional Info

NO ADDITIONAL INFORMATION TO REPORT.

Latitude

Degrees:

Minutes:

Seconds:

Quadrant:

Longitude

Degrees:

Minutes:

Seconds:

Quadrant:

Distance from City:

Direction:

Section:

Township:

Range:

Milepost:

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Rescinded **Comments** (max 250 characters)

**NRC Number:** 927442  
**Call Date:** 12/30/2009 **Call Time:** 22:40:50

**Caller Information**

First Name: CARL Last Name: OSTACH  
 Company Name: BUCKEYE PARTNERS  
 Address: 469 MOON CLINTON ROAD  
 City: CORAOPOLIS State: PA  
 Country: USA Zip: 15108  
 Phone 1: 4122929019 Phone 2: 4122997010  
 Organization Type: PRIVA1 Is caller the spiller?  Yes  No  No Response  
 Confidential:  Yes  No  No Response

**Discharger Information**

First Name: CARL Last Name: OSTACH  
 Company Name: BUCKEYE PARTNERS  
 Address: 469 MOON CLINTON ROAD  
 City: CORAOPOLIS State: PA  
 Country: USA Zip: 15108  
 Phone 1: 4122929019 Phone 2: 4122997010  
 Organization Type: PRIVA1

**Spill Information**

State: PA County: DELAWARE  
 Nearest City: ASTON Zip Code:

Location

920 CHERRY TREE ROAD

Spill Date: 12/29/2009 (mm/dd/yyyy) Spill Time: 23:00:00 (24hh:mm:ss)  
 DTG Type: DISCOVERED  
 Incident Type: STORAGE TANKS Reported Incident Type: STORAGE TANKS

Description

**128252 Appendix 4 NRC report 927442**

\*\*\*THIS IS A UPDATE TO REPORT # 927432\*\*\* CALLER IS REPORTING A SPILL OF GASOLINE FROM STORAGE TANK'S LINE DUE TO CORROSION.

Materials Involved

Material / Chris Name	Chris Code	Total Qty.	Water Qty.
GASOLINE: AUTOMOTIVE (UNLEADED)	GAS	0 UNKNOWN AMOUNT	0 UNKNOWN AMOUNT

Medium Type:

Additional Medium Information:

Injuries:  Fatalites:   
 Evacuations:  Yes  No  Unknown No. of Evacuations:   
 Damages:  Yes  No  Unknown Damage Amount:   
 Federal Agency Notified:  Yes  No  Unknown State Agency Notified:  Yes  No  Unknown  
 Other Agency Notified:  Yes  No  Unknown

Remedial Actions

CALLER STATED THE MATERIAL WAS CONTAINED AND THEY PLACED A CLAMPED ON THE LEAKING LINE.

Additional Info

CALLER HAD NO ADDITIONAL INFORMATION.

Latitude

Degrees:  Minutes:  Seconds:  Quadrant:   
Longitude  
 Degrees:  Minutes:  Seconds:  Quadrant:   
 Distance from City:  Direction:   
 Section:  Township:   
 Range:  Milepost:

Photo 1



Photo 2



Photo 3

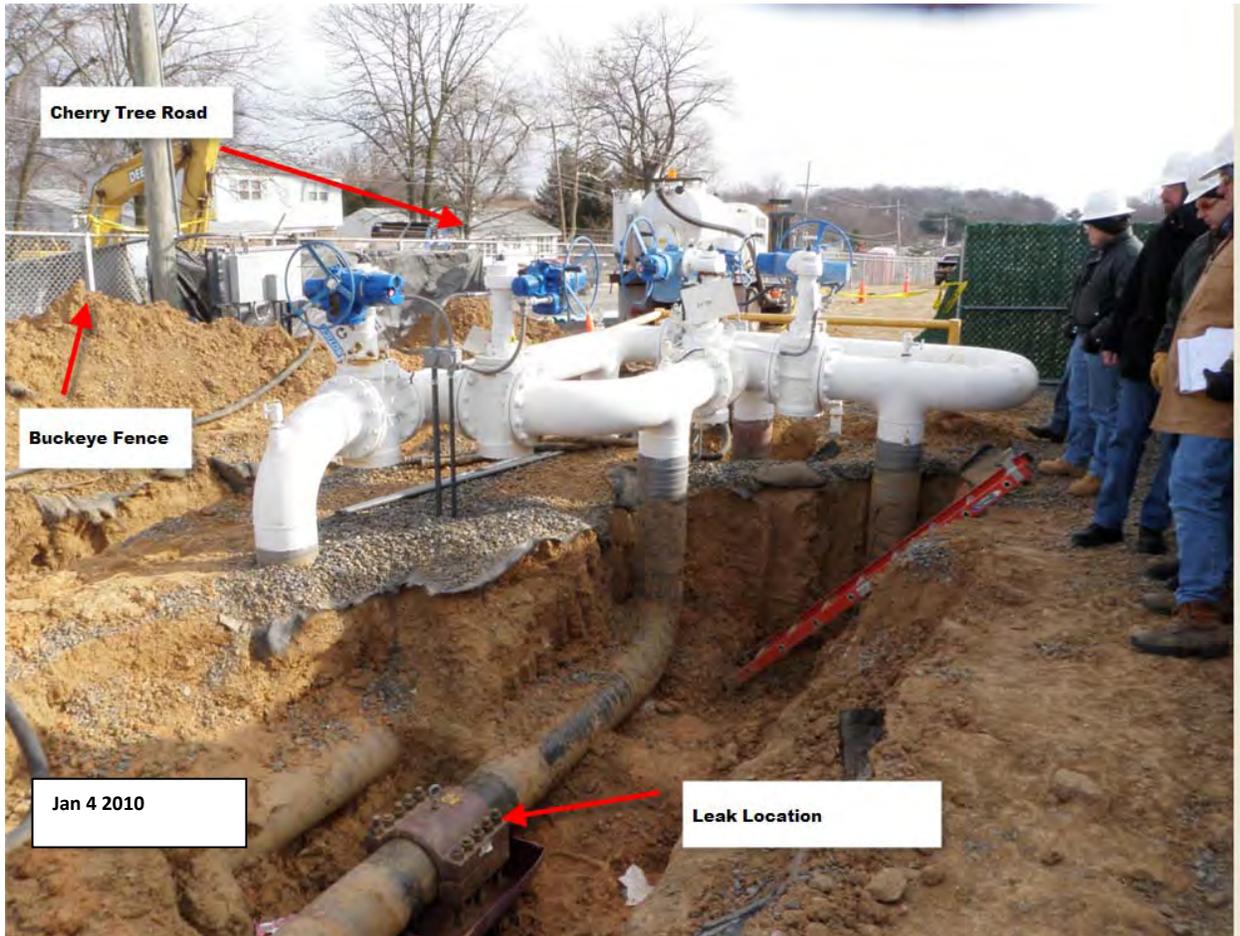


Photo 4



Photo 5

Photo 5



**128252 Appendix 6 Accident Report 20090367 Timeline of Events**

<b>Date</b>	<b>Time</b>	<b>Event</b>
12/29/2009	22:00	Buckeye Partners' (Buckeye) control center in Breinigsville, PA received a call from the Aston, PA Fire Marshall reporting gasoline odors in the area of Clearview lane in Aston, PA. Buckeye's 8" pipeline in the area (CT553JP) had been shut down earlier in the day as part of a normal, scheduled shut down and the pipeline pressure was being monitored. After notification from Buckeye's control center, field personnel arrived at the site and confirmed the presence of gasoline odors.
12/30/2009	12:45	A representative of the Pennsylvania Department Of Environmental Protection (PADEP) measured gas odors in several adjacent sanitary sewer manholes as well as a few nearby residences. The fire department requested the evacuation of four residences as a precaution until the vapor levels subsided.
12/30/2009	1:40	A unified command was established by buckeye's local operations manager. Buckeye personnel proceeded to walk the pipeline right of way and although no visible product was seen, they did detect an odor in some areas. Buckeye decided to walk the pipeline right of way again during daylight hours and to dig test holes in the areas of high vapor levels.
12/30/2009	12:00	Buckeye had a total of ten locations probed between Cherry Tree street and Overlook street with no product found. The test holes dug on arbor lane were also found to be clean of product.
12/30/2009	12:28	The PADEP representative indicated that it appeared that the problem was in the vicinity of Scott lane because the sewer manholes on Cherry Tree street and Frazer street had high vapor levels. Buckeye decided to excavate the gasoline tank lines inside the adjacent Chelsea station since these pipelines were closer to Scott street.
12/30/2009	22:00	Buckeye personnel identified high vapor levels and visible product in the excavation at the tank junction valves in Chelsea station. The release was determined to be on the tank 701 line.
12/31/2009	1:30	Buckeye installed a Plidco sleeve, which stopped the release.
12/31/2009	12:00	All residents were cleared to safely return to their homes.
1/1/2010		The local sewer authority confirmed at least three breaches in the sanitary sewer line located under cherry tree street. These breaches allowed gasoline from the release to get into the sanitary sewer system. The local sewer authority is presently in the process of repairing the sewer system in this area. Buckeye continues to monitor the Plidco sleeve twice daily
2/8/2010		Buckeye has dug numerous test wells and continues to work on both the remediation of the release and determining the estimated volume. Buckeye notified all appropriate outside agencies of this incident.
2/12/2010		Permanent repairs were completed by cutting out the damaged pipe and replacing it with certified pipe. The damaged pipe has been sent to a laboratory for metallurgical analysis. Metallurgical analysis revealed the cause of the external corrosion to be microbiologically induced corrosion. Remediation is continuing.
3/1/2011		Operation of the facility was turned over to ConocoPhillips.