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February 29, 2008

Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

FEDERAL ENERGY
REGULATORY COMMISSION

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RE: Docket No. CP07-208-000
Rockica Express Pipeline LLC, REX-East Project
Response to February 25, 2008 Data Requests

Dear Ms. Bose:

On April 30, 2007, Rockies Express Pipeline LLC ("Rockies Express") filed with the Federal Energy Regulatory Commission ("FERC" or "Commission") an application, pursuant to Section 7(c) of the Natural Gas Act and Part 157 of the Commission's regulations, requesting a Certificate of Public Convenience and Necessity authorizing the construction and operation of its Rockies Express Pipeline-East ("REX-East") Project.

On February 25, 2008, FERC Staff issued an Environmental Data Request for the REX-East Project, including a request to revise several tables that previously have been provided (Data Request No. 1). A. As requested, this response includes all revised tables in MS Word with changes tracked. The responses to Data Request No. 4 and No. 5 contains cultural data, and, accordingly, is filed as privileged and confidential, consistent with the Commission's regulations. With respect to Data Request No. 5, Rockies Express is responding to the Commission Staff's concerns raised in the draft Environmental Impact Statement and is proposing to adapt the southern route as set forth in the attachment.

Also included with this filing is supplemental data related to cultural resources correspondence and wellhead protection areas ("WPA"). The cultural resources supplement provides the latest information regarding tribal correspondence. This information is being filed as privileged and confidential, consistent with the Commission's regulations.

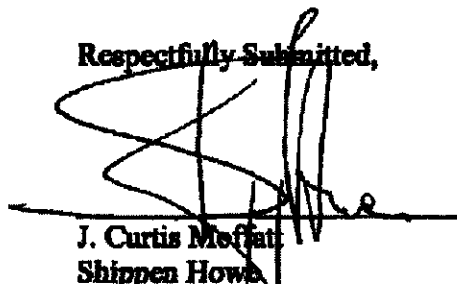
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Specific to the WPAs, as requested by the FERC's Environmental Data Request No. 5 dated February 8, 2008, Rockies Express has completed consultations with the Ohio Environmental Protection Agency (OEPA) regarding WPAs within 0.25 mile of any aboveground facilities. The attached correspondence documents that Rockies Express' proposed mainline valve number 23 at milepost (MP) 425.9 is within 0.25 mile of Southwest Regional Water District's and Miller Brewing Industries' WPA; no other aboveground facilities are within 0.25 mile of a WPA in Ohio.

If there are any questions regarding this matter, please do not hesitate to contact Jim Thompson at (806) 570-6800.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'J. Curtis Moffatt', is written over a horizontal line.

J. Curtis Moffatt
Shippen Howe
Van Ness Feldman
1050 Thomas Jefferson Street, NW
Washington, DC 20007

Attorneys for Rockies Express Pipeline LLC.

Attachments

cc: Alisa Lykens (w/o attachments)
Laura Turner
Karen Fadeley, ICF
Trevor Loveday, Entrix
All Parties

**Rockies Express Pipeline LLC
REX-East Project
CP07-208**

February 29, 2008

Public

- 1. Revisions to the following tables from the draft environmental impact statement for the REX East Project EIS to reflect the changes made to the pipeline route and facility locations since November 2007. Provide the revised tables in MS Word with changes highlighted.**

- 2.1-1 REX East Pipeline Facilities
- 2.1-2 Proposed Aboveground Facilities
- 2.2-1 Land Requirements
- 2.2-3 Land Requirements for Aboveground Facilities
- 4.1.2-1 Summary of Known Mineral Resource Production Areas Within 1,500 Feet of Proposed Project
- 4.1.2-2 Abandoned Underground Mines Crossed by the Proposed Pipeline Route
- 4.1.3-1 Areas Crossed by the Proposed Pipeline Route with Moderate or High Susceptibility to Landslides
- 4.1.3-2 Location and Length of Potential Karst Terrain Crossed by the Proposed Pipeline Route
- 4.2.1-1 Summary of Soil Limitations at Pipeline Facilities (by miles crossed)
- 4.2.1-2 Summary of Soil Limitations at Aboveground Facilities
- 4.3.1-1 Springs Located Within 150 Feet of the REX East Proposed Pipeline Route
- 4.3.1-2 Wellhead Protection Areas Crossed by the Construction Work Area
- 4.3.5-1 Impaired Waterbodies Crossed by the REX East Project
- 4.3.7-2 Wetlands Affected by the REX East Project
- 4.3.7-3 Sensitive and Significant Wetlands Affected by the REX East Project
- 4.4.1-2 Summary of Vegetation Affected by Construction and Operation of the Project by State
- 4.4.2-1 Classified Forest Areas Crossed by REX East Project Pipeline in Indiana
- 4.5.4-1 Significant or Sensitive Wildlife Habitats crossed by the Proposed Project
- 4.6.2-1 Fisheries of Special Concern Crossed by the Project
- 4.7.1-2 Forested Areas and Expected Impacts Around Mist Net Sites Where Reproductively Active Female Indiana Bats Were Captured and Associated Roost Trees Along the REX East Project
- 4.7.1-3 Forested Area and Expected Impacts Surrounding Areas Where Mist Net Surveys Could Not be Completed During 2007
- 4.8.1-1 Summary of Land Uses Affected by Construction and Operation of the Project by State (in acres)
- 4.8.3-1 Residences Within 50 ft of Right-of-Way
- 4.8.4-1 Planned Developments Crossed by the Proposed Pipeline Route
- 4.8.5-1 Recreation and Special Land Uses Crossed by the Proposed Pipeline Route
- 4.8.6-1 Potential Visual Impacts Associated with Major Aboveground Facilities
- 4.10.1-1 Cultural Resources Surveys Status as of August 29, 2007
- G-1 Water Well Locations Within 350 Feet of the Pipeline Centerline
- G-2 Waterbodies Crossed by the Pipeline Route
- G-3 Major and Sensitive Waterbodies Crossed by the Proposed Pipeline Route
- G-4 Impaired Waterbodies Crossed by the Proposed Pipeline Route
- G-5 Waterbodies Requiring a Crossing License from the INDNR
- G-6 Wetlands Affected by the Project

Rockies Express Pipeline-East Project
Response to Environmental Information Request dated February 25, 2008

Rockies Express' Response:

Attached to this response are the requested tables, which have been revised from the Draft Environmental Impact Statement (EIS) for the REX-East Project to reflect the changes made to the pipeline route and facility locations since November 2007. Rockies Express is providing both track changes and "clean" versions of these tables.

Note that there are no changes to tables 4.1.3-2 and 4.3.1-2 and, therefore, these tables are not included.

Submitted by:
Ryan H. Childs - Cimarron Environmental Consulting, Inc.
Project Environmental Manager (contractor)
Rockies Express Pipeline-East Project

Attachments: Revised Draft EIS tables listed in Environmental Information Request

**Attachment to
Data Response # 1**

TABLES

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Table 2.1-1
REX East Pipeline Facilities

Facility and Location (State)	Diameter (inches) g/	Length (miles) h/	MPs c/
Missouri			
Mainline	42	43.1	0.0 – 43.1
Subtotal		43.1	
Illinois			
Mainline	42	195.2	43.1 – 238.2
Lateral and Interconnect: Natural Gas Pipeline Company g/	42	0.2	Near 178.7
Interconnect: Ameren Power Company	42	0.1	Near 180.4
Lateral and Interconnect: Trunkline Gas Company	42	<0.1	Near 195.7
Lateral and Interconnect: Midwestern Gas Transmission Company	42	0.2	Near 231.9
Subtotal		195.7	
Indiana			
Mainline	42	166.2	238.2 – 404.7
Lateral and Interconnect: Panhandle Eastern Pipeline Company	42	<0.1	Near 274.5
Lateral and Interconnect: Citizen Gas and Coke Utility	42	0.2	Near 305.9
Lateral and Interconnect: Indiana Gas Company	42	<0.1	Near 316.4
Lateral and Interconnect: ANR Pipeline Company	42	<0.1	Near 342.3
Subtotal		166.4	
Ohio			
Mainline	42	234.6	404.7 – 639.1
Lateral and 5 Interconnects: Lebanon Hub: Includes Columbia Gas, Dominion Transmission, Texas Eastern Transmission, Texas Gas Transmission, and Vectren	42	1.8	Near 444.0
Lateral: Columbia Gas Transmission Company	42	<0.1	Near 539.6
Lateral and Interconnect: Tennessee Gas Company	42	0.7	Near 592.4
Lateral and Interconnect: Dominion Transmission, Inc.	42	<0.1	Near 612.3
Lateral and 3 Interconnects: Clarington Hub: Includes Dominion Transmission, Dominion East, and Texas Eastern Transmission Company	42	0.4	Near 639.1
Subtotal		237.5	
Project Total		642.7	

g/ Diameter of the lateral is 42 inches, the diameter of the interconnects will vary between 6 inches and 24 inches.
h/ Length includes the length of all laterals and interconnects at this location
c/ Distance between mileposts does not necessarily equal a mile due to topography and changes in the route.
g/ A lateral is a pipeline which connects the REX East pipeline to the meter station. An interconnect is a pipeline which connects the meter station to the third-party pipeline.

**Table 2.1-2
Proposed Aboveground Facilities**

Facility	Horsepower (hp)	MP ^{a/}	Location (County, State)
Compressor Stations			
Arlington Compressor Station	19,794	237.0 ^{b/}	Carbon, WY
Bertrand Compressor Station	34,210	288.8 ^{g/}	Phelps, NE
Mexico Compressor Station	41,000	0.0	Audrain, MO
Blue Mound Compressor Station	35,174	144.1	Christian, IL
Bainbridge Compressor Station	41,000	277.3	Putnam, IN
Hamilton Compressor Station	35,000	437.3	Warren, OH
Chandersville Compressor Station	19,538	575.0	Muskingum, OH
Meter Stations			
Natural Gas Pipeline Company of America	—	178.7	Moultrie, IL
Ameren Power Company	—	180.4	Moultrie, IL
Trunkline Gas Company	—	195.7	Douglas, IL
Midwestern Gas Transmission Company	—	231.9	Edgar, IL
Panhandle Eastern Pipe Line Company	—	274.5	Putnam, IN
Citizen Gas and Coke Utility	—	305.9	Morgan, IN
Indiana Gas Company	—	316.4	Morgan, IN
ANR Pipeline Company	—	342.3	Shelby, IN
Columbia Gas Transmission Corporation	—	444.0	Warren, OH
Dominion Transmission, Inc.	—	444.0	Warren, OH
Texas Eastern Transmission Company	—	444.0	Warren, OH
Texas Gas Transmission, LLC	—	444.0	Warren, OH
Vectren Company	—	444.0	Warren, OH
Columbia Gas Transmission Corporation	—	539.8	Fairfield, OH
Tennessee Gas Company	—	592.4	Guernsey, OH
Dominion Transmission, Inc.	—	612.3	Noble, OH
Dominion Transmission, Inc.	—	639.1	Monroe, OH
Dominion East Ohio	—	639.1	Monroe, OH
Texas Eastern Transmission Company	—	639.1	Monroe, OH

^{a/} Distance between mileposts does not necessarily equal a mile due to topography and changes in the route.

^{b/} Milepost represents distance along the REX West route.

^{g/} Milepost represents distance along the REX Entregas route.

**Table 2.2-1
Land Requirements**

Project Component	Construction (acres)	Operations (acres)
Pipeline		
Mainline right-of-way	9,678.5	3,871.8
Laterals and interconnects	36.7	24.4
Additional temporary workspace	4,183.1	0.0
Pipe storage/contractor yards	303.1	0.0
Subtotal	14,181.4	3,896.2
Aboveground Facilities		
Facilities	153.0 g/	153.0 g/
Project Total	14,334.4	4,049.2

g/ Includes compressor stations, meter stations (and access roads to them), valves, and pig launcher and receiver facilities.

Table 2.2-3

Land Requirements for Aboveground Facilities

Facility	Location (County, State)	Temporary Construction (acres)	Permanent Operation (acres)
Compressor Stations g/			
Arlington Compressor Station	Carbon, WY	15.0	15.0
Bertrand Compressor Station	Phelps, NE	17.7	17.7
Mexico Compressor Station	Audrain, MO	12.8	12.8
Blue Mound Compressor Station	Christian, IL	12.9	12.9
Bainbridge Compressor Station	Putnam, IN	21.3	21.3
Hamilton Compressor Station	Warren, OH	15.2	15.2
Chandlerville Compressor Station	Muskingum, OH	19.9	19.9
Subtotal		114.8	114.8
Meter Stations g/			
Natural Gas Pipeline Company of America	Moultrie, IL	5.6	5.6
Ameren Power Company	Moultrie, IL	1.2	1.2
Trunkline Gas Company	Douglas, IL	2.6	2.6
Midwestern Gas Transmission Company	Edgar, IL	1.2	1.2
Panhandle Eastern Pipe Line Company	Putnam, IN	1.2	1.2
Citizen Gas and Coke Utility	Morgan, IN	1.2	1.2
Indiana Gas Company	Morgan, IN	2.0	2.0
ANR Pipeline Company	Shelby, IN	2.2	2.2
Vectren, Texas Gas Transmission, LLC, Dominion Transmission, Inc., Texas Eastern Transmission Company, and Columbia Gas Transmission Corporation	Warren, OH	6.8	6.8
Columbia Gas Transmission Corporation	Fairfield, OH	2.2	2.2
Tennessee Gas	Guernsey, OH	2.2	2.2
Dominion Transmission, Inc	Noble, OH	1.5	1.5
Dominion Transmission, Dominion East Ohio, and Texas Eastern Transmission Company	Monroe, OH	6.1	6.1
Subtotal		36.0	36.0
Mainline Block Valves h/			
Subtotal		0.0 g/	2.2
Total		150.8	153.0

g/ Includes area to be disturbed by permanent access roads.

h/ Includes only the 36 mainline block valves, which would be located outside of the fenced area at proposed compressor stations or meter stations. Block valves located within the fence line of other aboveground facilities are counted with those aboveground facilities.

i/ Areas disturbed during construction are accounted for in the acreage disturbed by the construction pipeline right-of-way.

Table 4.1.2-1

Summary of Known Mineral Resource Production Areas Within 1,500 Feet of Proposed Project

State/County	Milepost	Area Where Resource Is Found	Distance (in feet) and Direction from Centerline
ILLINOIS			
Pike	59.9	Quarry	1,300 – Southeast
	70.8	Gravel Pit	1,250 – South
Douglas	199.9	Quarry	500 – North
INDIANA			
Morgan	310.0	Sand/Gravel Pit	575 – West
	315.2	Sand/Gravel Pit	900 – Northeast
	315.4	Sand/Gravel Pit	500 – West
OHIO			
Butler	424.9	Gravel Pit	450 – Southwest
	430.6	Sand/Gravel Pit	1,000 – North
	RR 2031- MP434.1+1.6	Sand/Gravel Pit	1500 – North
	473.0	Sand/Gravel Pit	1,500 – North

Table 4.1.2-2
Abandoned Underground Mines Crossed by the Proposed Pipeline Route g/

State/County	Begin Milepost	End Milepost	Length (miles)	Type of Mining
ILLINOIS				
Sangamon	117.5	119.0	1.4	Room and Pillar
	119.0	119.0	<0.1	Room and Pillar
Douglas	208.2	208.3	0.1	Room and Pillar
	208.7	211.9	3.2	Room and Pillar
INDIANA				
Warren	246.4	246.7	0.3	Room and Pillar
OHIO				
Perry	581.2	581.2	<0.1	Room and Pillar
	581.4	581.4	<0.1	Room and Pillar
	581.6	581.8	0.1	Room and Pillar
	581.8	581.7	0.1	Room and Pillar
	582.5	582.6	0.1	Room and Pillar
	583.7	583.8	0.1	Room and Pillar
	583.9	584.0	0.1	Room and Pillar
	584.1	584.3	0.2	Room and Pillar
	584.3	584.8	0.3	Room and Pillar
	584.7	585.1	0.4	Room and Pillar
	587.0	587.1	0.1	Room and Pillar
	587.1	587.1	<0.1	Room and Pillar
	587.2	587.4	0.2	Room and Pillar
	587.4	587.5	0.1	Room and Pillar
Muskingum	587.6	588.2	0.6	Room and Pillar
	570.8	571.1	0.3	Room and Pillar
	571.5	571.6	0.1	Room and Pillar
	571.6	571.7	0.1	Room and Pillar
	595.3	596.0	0.7	Room and Pillar
	596.0	596.2	0.2	Room and Pillar
	596.2	596.3	0.1	Room and Pillar
	596.3	596.5	0.2	Room and Pillar
	596.5	596.5	<0.1	Room and Pillar
	597.6	597.7	0.1	Room and Pillar
	597.9	598.0	0.1	Room and Pillar
	598.8	599.2	0.4	Room and Pillar
	600.4	600.8	0.4	Room and Pillar
	600.8	600.8	<0.1	Room and Pillar
Guernsey	601.0	601.1	0.1	Room and Pillar
	601.1	601.1	<0.1	Room and Pillar
	601.1	601.9	0.8	Room and Pillar
	601.9	602.4	0.5	Room and Pillar
	602.4	602.7	0.3	Room and Pillar
	602.7	603.6	0.9	Room and Pillar
	603.9	604.4	0.5	Room and Pillar
	605.9	606.1	0.2	Room and Pillar
	606.2	606.2	<0.1	Room and Pillar
	RR 2010-MP	RR 2010-MP	<0.1	Room and Pillar
	619.8+4.3	619.8+4.3		
Belmont				

Table 4.1.2-2**Abandoned Underground Mines Crossed by the Proposed Pipeline Route ^{a/}**

State/County	Begin Milepost	End Milepost	Length (miles)	Type of Mining
Monroe	629.6	629.8	0.2	Room and Pillar, Longwall
	629.9	631.1	1.2	Room and Pillar, Longwall
	633.8	633.9	0.1	Room and Pillar
	634.3	639.1	4.8	Room and Pillar

^{a/} Source: Stiff, 1997; Crowell, et al., 2006

Table 4.1.3-1					
Areas Crossed by the Proposed Pipeline Route with Moderate or High Susceptibility to Landslides g/					
State/County	Begin Milepost	End Milepost	Length (miles)	Susceptibility	Incidence
Missouri					
Audrain	7.8	15.8	8.0	Moderate	Low
Ralls	15.8	19.8	4.0	Moderate	Low
Pike	19.8	36.4	16.6	Moderate	Low
	36.4	43.0	6.6	High	Low
Illinois					
Pike	43.0	69.7	26.7	High	Low
Indiana					
Hendricks	291.0	301.1	10.1	Moderate	Low
	301.1	304.3	3.2	Moderate	Low
Morgan	304.3	306.6	2.3	Moderate	Low
Franklin	379.6	396.8	17.2	High	Low
Ohio					
Perry	557.9	566.3	8.4	High	Low
Muskingum	566.3	577.4	11.1	High	Low
	577.4	591.7	14.3	High	Low
Guernsey	591.7	591.8	0.1	High	Low
	591.8	594.7	2.9	High	Moderate
	594.7	602.8	8.1	High	Low
	602.8	611.3	8.5	High	Moderate
Noble	611.3	618.0	6.7	High	Moderate
Belmont	618.0	618.1	0.1	High	Moderate
	618.1	RR 2010-MP 619.8+6.0	7.7	High	High
	625.5	633.8	8.3	High	High
Monroe	633.8	639.1	5.3	High	High

g/ Source: Godt, 1997

Table 4.2.1-1
Summary of Soil Limitations at Pipeline Facilities (by miles crossed) a/

County	Highly Water Erodible <i>b/</i>	Highly Wind Erodible <i>c/</i>	Prime Farmland <i>d/</i>	Hydric <i>e/</i>	Compaction Prone <i>f/</i>	Stony Rocky <i>g/</i>	Shallow Bedrock <i>h/</i>	Droughty <i>i/</i>
MISSOURI								
Audrain	0.7	0.0	13.5	5.9	5.2	0.0	0.0	0.0
Ralls	0.0	0.0	3.9	1.0	1.7	0.0	0.0	0.0
Pike	9.3	0.0	8.3	3.8	3.4	6.1	4.5	0.0
ILLINOIS								
Pike	5.2	0.0	16.7	6.1	1.7	0.0	0.0	0.0
Scott	3.5	0.0	9.0	2.1	0.7	0.0	0.0	0.0
Morgan	3.5	0.0	14.5	3.5	2.5	0.0	0.0	0.0
Sangamon	1.9	0.0	22.0	7.5	5.9	0.0	0.0	0.0
Christian	1.0	0.0	15.7	5.1	0.7	0.0	0.0	0.0
Macon	1.0	0.0	19.2	4.5	4.3	0.0	0.0	0.0
Macoupin	0.0	0.0	14.0	5.2	5.2	0.0	0.0	0.0
Douglas	0.1	0.0	25.2	10.6	7.1	0.0	0.0	0.0
Edgar	0.6	0.0	22.7	6.0	7.4	0.0	0.0	0.0
INDIANA								
Vermillion	2.2	0.0	5.6	1.1	0.3	0.0	0.2	0.0
Parke	5.4	0.1	14.2	2.7	0.7	0.0	0.0	0.2
Pulham	5.8	0.0	11.8	1.3	1.0	0.0	0.7	0.1
Hendricks	2.8	0.1	14.3	2.5	0.4	0.0	0.2	0.1
Morgan	1.1	0.2	11.4	3.5	1.5	0.0	0.0	0.3
Johnson	2.1	0.1	18.9	4.5	1.1	0.0	0.0	0.1
Shelby	2.0	0.3	16.7	5.5	0.4	0.0	0.2	0.2
Decatur	3.5	0.0	13.7	2.9	1.9	0.0	0.5	0.0
Franklin	15.5	0.1	19.5	1.2	0.7	5.3	7.5	0.1
OHIO								
Butler	5.4	0.0	22.0	4.0	2.9	0.0	1.2	0.1
Warren	5.9	0.0	19.3	2.3	1.6	0.0	0.5	0.0
Clinton	2.7	0.0	11.4	1.5	0.2	0.0	0.4	0.0
Greene	0.1	0.0	2.7	1.5	1.5	0.0	0.0	0.0
Fayette	2.2	0.0	20.9	5.2	5.5	0.0	0.0	0.0
Pickaway	4.8	0.2	18.9	5.5	4.7	0.1	0.0	0.0
Fairfield	7.9	0.0	15.4	2.4	0.9	1.4	1.4	0.0
Perry	14.7	0.0	2.3	0.5	0.0	3.5	7.1	0.0
Muskingum	20.7	0.0	1.5	1.5	0.5	5.5	14.2	0.0
Guernsey	15.0	0.0	1.4	1.3	0.4	2.4	14.3	0.0
Noble	5.4	0.0	0.0	0.0	0.0	4.2	5.5	0.0
Belmont	14.5	0.0	1.4	0.0	0.0	0.5	15.7	0.0
Monroe	5.2	0.0	0.0	0.0	0.0	0.0	5.0	0.0
Total	177.0	1.2	417.4	120.9	75.5	25.5	79.5	1.2
Percent of Total <i>j/</i>	27.7	0.2	65.3	18.9	12.0	4.5	12.5	0.2

a/ Values may be overestimated due to rounding as all values <0.1 were counted as 0.1

b/ Includes map unit having average slope class of 9 percent or more and designated as land capability subclasses 4E through 8E by NRCS

c/ Includes map unit designated as wind erodibility group 1 or 2 by NRCS

d/ Includes map unit designated as prime farmland by NRCS

e/ Includes map unit designated as hydric by NRCS

f/ Includes map unit having sandy clay loam texture or finer in drainage classes categorized as somewhat poor, poor, or very poor

g/ Includes map unit meeting criteria for stony-rocky soils

h/ Includes map unit having bedrock within 60 inches of soil surface

i/ Includes map unit meeting criteria for droughty soils

j/ Percentages sum to greater than 100 because some areas are characterized by more than one soil limitation

Table 4.2.1-2

Summary of Soil Limitations at Aboveground Facilities

Facility (County)	Total Acres	Highly Erodible ^{a/}	Prime Farmland ^{b/}	Hydric ^{c/}
MISSOURI				
Mexico Compressor Station (Audrain)	12.8	No	Yes	No
ILLINOIS				
Blue Mound Compressor Station (Christian)	12.9	Yes	Yes	No
NGPL Meter Station (Moultrie)	5.6	No	Yes	Yes
Ameren Power Company (Moultrie)	1.2	No	Yes	No
Trunkline Meter Station (Douglas)	2.6	No	Yes	Yes
MGT Meter Station (Edgar)	1.2	Yes	Yes	No
INDIANA				
PEPL Meter Station (Putnam)	1.2	Yes	Yes	No
Bainbridge Compressor Station (Putnam)	21.3	No	Yes	Yes
Citizen Gas Meter Station (Morgan)	1.2	No	Yes	Yes
IGC Meter Station (Morgan)	2.0	No	Yes	No
ANR Meter Station (Shelby)	2.2	Yes	Yes	No
OHIO				
Hamilton Compressor Station (Warren)	15.2	No	Yes	Yes
Dominion/TETCO/TG/Vectren/CGE Meter Station (Warren)	6.8	Yes	Yes	No
CGTC Meter Station (Fairfield)	2.2	No	Yes	No
Chandlersville Compressor Station (Muskingum)	19.9	Yes	Yes	No
TG Meter Station (Guernsey)	2.2	Yes	No	No
Dominion Transmission Meter Station (Noble)	1.5	Yes	No	No
DT/DEG/TETCO Meter Station (Monroe)	6.1	Yes	No	No
WYOMING				
Arlington Compressor Station (Carbon)	15.0	Yes	No	No
NEBRASKA				
Bertrand Compressor Station (Phelps)	17.7	No	Yes	Yes
^{a/} Includes map unit designated by NRCS as highly erodible land ^{b/} Includes map unit designated by NRCS as prime farmland ^{c/} Includes map unit designated by NRCS as hydric				

Table 4.3.1-1 Springs Located Within 160 Feet of the REX East Proposed Pipeline Route g/		
State/County	Approximate Milepost	Approximate Distance from Centerline (feet)
MISSOURI	None Identified	N/A
ILLINOIS		
Pike	54.3	250
Edgar	228.5	55
Edgar	233.9	125
INDIANA		
Morgan	317.2	100
Decatur	364.3	250
OHIO		
Monroe	638.2	32
g/ Spring information is based on civil survey information.		

Table 4.3.5-1
Impaired Waterbodies Crossed by the REX East Project

State/County	Milepost	Waterbody Name	Proposed Crossing Method	Impairment Cause
MISSOURI				
Pike	42.5	Salt River	HDD	Mercury, Manganese
ILLINOIS				
Pike	43.2	Mississippi River	HDD	Fecal coliform, PCBs
Pike	61.0	Honey Creek	Open-cut	Dissolved oxygen, Sedimentation/Siltation
Pike	63.9	Bay Creek	Open-cut	303(d) Impairment - Dissolved oxygen, Phosphorus, Sedimentation, Siltation, TSS, Fecal coliform
Scott	71.2	Illinois River	HDD	PCBs, Mercury
Sangamon	117.1	Panther Creek	Open-cut	Sedimentation/Siltation
Sangamon	121.2	Sugar Creek	Open-cut	Fecal coliform
Sangamon	125.2	Brush Creek	Open-cut	Dissolved oxygen, Manganese
Sangamon	128	Horse Creek	Open-cut	Dissolved oxygen, Manganese
Sangamon	130.7	Tributary to South Fork Sangamon River	Open-cut	Iron, Nitrogen, pH, Dissolved oxygen, Manganese, Phosphorus, Sedimentation/Siltation, TSS, Chlordane
Sangamon	132.1	South Fork Sangamon River	Open-cut	Iron, Nitrogen, pH, Dissolved oxygen, Manganese, Phosphorus, Sedimentation/Siltation, TSS, Chlordane
Christian	140.7	Buckhart Creek	Open-cut	Dissolved oxygen
Macon	175.5	Tributary to West Okaw River	Open-cut	Nitrogen, Fecal coliform, Dissolved oxygen, pH, Phosphorus, TSS
Douglas	193.4	Kaskaskia River	Open-cut	Manganese, Fecal coliform, Dissolved oxygen, pH, Phosphorus, Sedimentation/Siltation, TSS
Edgar	198.7	Scattering Fork	Open-cut	Nitrogen, Phosphorus
Douglas	201.2	Hackett Branch	Open-cut	Dissolved oxygen, Phosphorus
Edgar	202.9	Embarras River	HDD	Nitrogen, Dissolved oxygen, pH, Phosphorus, Sedimentation/Siltation, TSS, Fecal coliform
Edgar	227.4	Brouillette Creek	Open-cut	Fecal coliform
INDIANA				
Vermillion	RR 2032-MP 242.9+4.0	Wabash River	HDD	E. coli, PCBs, Mercury
Putnam	282.2	Plum Creek	Open-cut	Biotic Community Status
Hendricks	286.6	Clear Creek	Open-cut	Pathogens
Hendricks	288.7	Tributary to Miller Creek	Open-cut	Pathogens
Hendricks	289.7	Tributary to Crittendon Creek	Open-cut	Pathogens
Hendricks	291.8	Mill Creek	Open-cut	Pathogens
Hendricks	294.3	East Fork Mill Creek	Open-cut	Pathogens
Hendricks	299.4	Mud Creek	Open-cut	Pathogens
Morgan	311.0	White Lick Creek	Open cut	E. coli, PCBs, Mercury
Morgan	311.1	Tributary to White Lick Creek	Open cut	E. coli, PCBs, Mercury
Morgan	312.4	White Lick Creek	HDD	E. coli, PCBs, Mercury
Morgan	315.8	White River	Dam & Pump/Flume	PCBs, Pathogens, Mercury
Morgan	317.5	Crooked Creek	Open-cut	Pathogens
Morgan	318.1	Banta Creek	Open-cut	Pathogens

Table 4.3.5-1
Impaired Waterbodies Crossed by the REX East Project

State/County	Milepost	Waterbody Name	Proposed Crossing Method	Impairment Cause
Johnson	323.4	Tributary to North Prong Stotts Creek	Open-cut	Pathogens
Johnson	331.3	Buckhart Creek	Open-cut	PCBs
Johnson	336.1	Youngs Creek	Open-cut	PCBs
Shelby	337.9	Sugar Creek	Open-cut	E. coli, PCBs, Mercury
Shelby	340.8	Big Blue River	HDD	E. coli, PCBs
Decatur	362.7	Flatrock River	Open-cut	Mercury, PCBs, Pathogens
Franklin	382.5	Blue Creek	Open-cut	E. coli
Franklin	382.8	Tributary to Blue Creek	Open-cut	E. coli
Franklin	397.5	Big Cedar Creek	Open-cut	E. coli
OHIO				
Butler	421.6	Four Mile Creek	HDD	PCBs
Butler	422.7	Seven Mile Creek	HDD	PCBs
Butler	430.7	Great Miami River	HDD	PCBs
Warren	447.3	Clear Creek	Open-cut	Nutrients, Organic enrichment
Fayette	480.4	Rattlesnake Creek	Open-cut	Nutrients, Organic enrichment
Fayette	486.4	Paint Creek	Dam & Pump/Flume	Nutrients, PCBs, Siltation, Organic enrichment
Pickaway	515.9	Walnut Creek	HDD	PCBs, Mercury, Organic enrichment, Cause unknown
Fairfield	529.6 and 529.9	Hooking River	Open-cut	PCBs, Metals, Chlorides, pH
Muskingum	566.1	Moxahala Creek	Open-cut	pH, Siltation
Muskingum	577.2	Muskingum River	HDD	Pathogens, PCBs, Organic enrichment

Table 4.3.7-2
Wetlands Affected by the REX East Project

State	Wetland Classification ^{a/}	Length of Wetland Crossed (miles)	Wetland Area Affected During Construction (acres) ^{b/}	Wetland Area Affected by Operations (permanent acres) ^{c/}
Missouri	PEM	0.1	1.5	0.0
	PFO	0.7	5.5	0.7
	PSS	0.0	0.1	0.0
	MO subtotal:	0.8	7.1	0.7
Illinois	PEM	0.2	1.8	0.0
	PFO	0.9	4.6	1.9
	PSS	<0.1	0.4	0.2
	IL subtotal:	1.1	6.8	2.1
Indiana	PEM	0.4	4.3	0.0
	PFO	0.2	2.2	0.9
	PSS	<0.1	0.3	0.0
	IN subtotal:	0.6	6.8	0.9
Ohio	PEM	1.1	11.5	0.0
	PFO	0.6	4.2	1.8
	PSS	0.1	1.4	0.1
	OH subtotal:	1.8	17.1	1.9
Totals	PEM	1.8	18.1	0.0
	PFO	2.4	12.5	3.3
	PSS	0.1	2.2	0.3
	Total	4.3	37.8	5.6

^{a/} Wetland Types:

PEM = Palustrine Emergent

PFO = Palustrine Forested

PSS = Palustrine Scrub-shrub

^{b/} Area affected during construction (temporary impact) is based upon a 100-foot-wide construction right-of-way in PEM and PSS wetlands and a 75-foot-wide construction right-of-way in PFO wetlands to reflect the maximum potential impact to the wetlands.

^{c/} Acreage reflects a maintained permanent right-of-way width of 30 feet in forested wetlands within the 80-foot-wide permanent easement and a maintained permanent right-of-way width of 10 feet within the 50-foot-wide permanent easement in scrub-shrub wetlands. The remaining area would be restored. Emergent wetlands would not be permanently affected during operation of the pipeline, as they would be allowed to revegetate to pre-construction condition.

Table 4.3.7-3
Sensitive and Significant Wetlands Affected by the REX East Project

State/County	Wetland Identification	Wetland Type g/	Description	Temporary Impact (acres) b/	Permanent Impact (acres) g/
Missouri					
Pike g/	WL-MO-43-A	PFO	Upper Mississippi Conservation Opportunity Area	0.0	0.0
Pike	WL-MO-43-B	PFO	Upper Mississippi Conservation Opportunity Area	5.5	0.7
Indiana					
Putnam	WL-IN-285-A	PFO	High-Functioning Wetland	<0.1	<0.1
Putnam	WL-IN-272-AAA	PFO	High-Functioning Wetland	0.1	0.1
Hendricks	WL-IN-290-AAAA	PEM	High-Functioning Wetland	0.1	0.0
Morgan	WL-IN-315-AAAA	PFO	High-Functioning Wetland	0.4	0.2
Mogan	WL-IN-315-BBBB	PFO	High-Functioning Wetland	0.2	0.1
Ohio					
Fayette	WL-OH-481-A	PEM	High-Functioning Wetland	<0.1	0.0
Fayette g/	WL-OH-497-AAA	PFO	High-Functioning Wetland	0.0	0.0
Fayette g/	WL-OH-497-CCC	PFO	High-Functioning Wetland	0.0	0.0
Fayette g/	WL-OH-497-BBBB	PEM	High-Functioning Wetland	0.0	0.0
Pickaway g/	WL-OH-505-AA	PFO	High-Functioning Wetland	0.0	0.0
Perry	WL-OH-580-BBB	PFO	High-Functioning Wetland	<0.1	0.0
Muskingum	WL-OH-588-AAA	PFO	High-Functioning Wetland	<0.1	<0.1
Muskingum	WL-OH-575-B	PEM	High-Functioning Wetland	0.1	0.0
Guernsey	WL-OH-598-AAA	PEM	High-Functioning Wetland	0.1	0.0
Guernsey	WL-OH-608-DDD	PFO	High-Functioning Wetland	0.1	<0.1
Noble	WL-OH-610-AAA	PFO	High-Functioning Wetland	<0.1	0.0
Total	—	—	—	<7.1	<1.4

g/ Wetland Types:

PEM = Palustrine Emergent

PFO = Palustrine Forested

PSS = Palustrine Scrub-shrub

b/ Area affected during construction (temporary impact) is based upon a 100-foot-wide construction right-of-way in PEM and PSS wetlands and a 75-foot-wide construction right-of-way in PFO wetlands to reflect the maximum potential impact to the wetlands.

c/ Acreage reflects a maintained permanent right-of-way width of 30 feet in forested wetlands within the 50-foot-wide permanent easement and a maintained permanent right-of-way width of 10 feet within the 50-foot-wide permanent easement in scrub-shrub wetlands. The remaining area would be restored. Emergent wetlands would not be permanently affected during operation of the pipeline, as they would be allowed to revegetate to pre-construction condition.

d/ Would be crossed using the HDD method; therefore there is no impact.

Table 4.4.1-2

Rockies Express Pipeline-East Project

Summary of Vegetation Affected by Construction and Operation of the Project by State (in acres)

	Agricultural		Forested g/		Herbaceous g/		Total	
	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.
MISSOURI								
Pipeline g/	516.8	206.7	112.9	45.2	16.5	6.6	646.2	258.5
Interconnects and Laterals g/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional Temporary Workspace	211.9	0.0	54.0	0.0	9.6	0.0	275.5	0.0
Aboveground Facilities g/	12.9	12.9	0.1	0.1	0.0	0.0	13.0	13.0
Contractor/Pipe yards	22.6	0.0	11.8	0.0	0.7	0.0	34.9	0.0
Subtotal	764.2	219.6	178.8	45.3	26.8	6.6	969.6	271.5
ILLINOIS								
Pipeline g/	2,623.4	1,049.4	217.7	87.1	98.0	39.2	2,939.1	1,176.7
Interconnects and Laterals g/	6.1	3.1	0.3	0.2	0.2	0.1	6.6	3.4
Additional Temporary Workspace	1,077.5	0.0	86.1	0.0	3.9	0.0	1,167.5	0.0
Aboveground Facilities g/	24.1	24.1	0.1	0.1	0.0	0.0	24.2	24.2
Contractor/Pipe yards	66.3	0.0	0.2	0.0	2.2	0.0	67.7	0.0
Subtotal	3,796.4	1,076.6	304.4	87.4	104.3	39.3	4,204.1	1,203.3
INDIANA								
Pipeline g/	1,826.2	730.5	679.9	231.9	97.9	39.1	2,504.0	1,001.5
Interconnects and Laterals g/	4.0	2.5	0.0	0.0	0.0	0.0	4.0	2.5
Additional Temporary Workspace	815.0	0.0	186.6	0.0	1.5	0.0	1,005.4	0.0
Aboveground Facilities g/	28.2	28.2	0.1	0.1	0.0	0.0	28.3	28.3
Contractor/Pipe yards	62.2	0.0	0.8	0.0	0.0	0.0	63.0	0.0
Subtotal	2,735.6	761.2	769.4	232.0	99.7	39.1	3,804.7	1,032.3

Table 4.4.1-2

Rockies Express Pipeline-East Project

Summary of Vegetation Affected by Construction and Operation of the Project by State (in acres)

	Agricultural		Forested a/		Herbaceous b/		Total	
	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.
OHIO								
Pipeline c/	2,081.1	832.7	1,264.1	505.6	172.7	69.2	3,517.9	1,407.4
Interconnects and Laterals d/	7.9	5.0	2.8	1.7	16.9	11.4	26.6	18.1
Additional Temporary Workspaces	1,175.1	0.0	532.0	0.0	3.2	0.0	1,710.3	0.0
Aboveground Facilities f/	41.0	41.0	13.7	13.7	0.1	0.1	54.8	54.8
Contractor Pipe yards	74.6	0.0	30.8	0.0	1.0	0.0	106.4	0.0
Subtotal	3,379.7	876.7	1,843.4	521.0	192.9	80.7	5,416.0	1,480.3
NEBRASKA								
Aboveground Facilities	17.7	17.7	0.0	0.0	0.0	0.0	17.7	17.7
Subtotal	17.7	17.7	0.0	0.0	0.0	0.0	17.7	17.7
WYOMING								
Aboveground Facilities	0.0	0.0	0.0	0.0	15.0	15.0	15.0	15.0
Subtotal	0.0	0.0	0.0	0.0	15.0	15.0	15.0	15.0
Project Total	19,692.6	2,963.9	3,095.8	865.7	436.7	180.7	14,227.1	4,020.1

NOTE: The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the exact sum of the addends in all cases. Totals may be off by 0.1 acres.

a/ Forested wetlands are included in these estimates.

b/ Emergent wetlands are included in these estimates.

c/ Assumes 125-foot-wide construction right-of-way and a 50-foot-wide permanent right-of-way in all locations.

d/ Assumes a 50- to 100-foot-wide construction right-of-way and a 50-foot-wide permanent right-of-way.

e/ After 30 years, forested areas would return to pre-construction vegetated conditions.

f/ Includes construction and operational impact associated with the compressor stations and meter stations and access roads to compressor stations and meter stations. Because mainline valves would be constructed within the construction right-of-way, land use impacts are accounted for with the pipeline. However, because mainline valves would result in a land use conversion, aboveground totals include permanent impacts associated with mainline valves. Temporary pig launchers and receivers would be used within the area to be disturbed by the compressor stations. Therefore, land use impacts resulting from these facilities are already accounted for in the construction impacts for aboveground facilities.

Const: Impacts during construction of project.

Oper: Impacts associated with operation of project.

Table 4.4.2-1
Classified Forest Area Crossed by REX East Project Pipeline in Indiana

County	Begin Milepost g/	Length of Crossing (feet) b/	Temporary Impact (acres) c/	Permanent Impact (acres) d/
Vermillion	RR 2032 MP 242.9 + 3.4	1,338.5	3.5	1.5
Parke	253.4	369.4	1.1	0.4
Parke	258.5	94.4	0.3	0.1
Parke	260.6	483.1	1.4	0.6
Putnam	268.6	927.3	2.7	1.1
Putnam	269.6	341.7	1.0	0.4
Putnam	269.7	743.8	2.1	0.9
Putnam	269.8	5.9	<0.1	<0.1
Putnam	269.8	269.8	0.8	0.3
Putnam	270.0	693.6	2.0	0.8
Putnam	270.1	32.7	<0.1	<0.1
Putnam	270.1	2,727.5	7.8	3.1
Putnam	271.4	0.0	0.7	0.0
Putnam	272.8	3,337.0	9.6	3.8
Putnam	273.8	349.2	1.0	0.4
Putnam	278.7	885.6	2.5	1.0
Putnam	280.0	134.2	0.4	0.2
Putnam	282.9	405.8	1.2	0.5
Hendricks	295.1	0.0	<0.1	0.0
Morgan	310.7	0.0	<0.1	0.0
Shelby	344.8	552.8	1.6	0.6
Decatur	376.0	667.5	1.9	0.8
Decatur	378.6	541.8	1.6	0.6
Franklin	379.7	0.0	0.1	0.0
Franklin	381.7	23.8	<0.1	<0.1
Franklin	381.8	982.2	2.8	1.1
Franklin	382.1	212.3	0.6	0.2
Franklin	382.2	847.9	2.4	1.0
Total		15,967.9	44.8	17.9

a/ Mileposts are used for reference and may not reflect actual surveyed distances.

b/ A crossing length of zero represents classified forests that are not crossed by the centerline but that are within the project workspace.

c/ Temporary impact based on a 125-foot-wide construction right-of-way in upland areas.

d/ Permanent impact based on a 50-foot-wide maintained right-of-way.

Table 4.5.4-1

Significant or Sensitive Wildlife Habitats crossed by the Proposed Project

Wildlife Habitat	County	Milepost	Habitat Significance
Missouri			
Grassy Creek Conservation Opportunity Area	Pike	33.4-42.2	Aquatic criteria, biological richness, resource for migratory birds
Upper Mississippi Conservation Opportunity Area	Pike	42.6-42.9	Terrestrial criteria, species of conservation concern, resource for migratory birds
Ohio			
Little Miami Scenic State Park	Warren	451.6-451.7	Undeveloped shorelines, special status species
Caesar Creek State Park	Clinton	459.5-459.6	Nature preserve
Caesar Creek Wildlife Area	Clinton	459.6-459.8	Nature preserve
Deer Creek State Park	Pickaway	499.9-500.9	Nature preserve
Deer Creek Wildlife Area	Pickaway	499.8-499.9, 500.8	Nature preserve
Perry State Forest	Perry	558.5-558.7, 558.9-559.9	Nature preserve
Blue Rock State Forest	Muskingum	581.6-582.7	Nature preserve
Captina Creek Preserve	Belmont	RR 2010 – MP 619.8 + 5.0 to RR 2010 – MP 619.8 + 5.5	Nature preserve
Raven Rocks	Belmont	628.5-630.3	Nature preserve

Table 4.8.2-1					
Fisheries of Special Concern Crossed by the Project					
Waterbody	Crossing Location (MP) a/	Width (feet)	Waterbody Type	Proposed Crossing Method b/	Reason for Designation g/
Missouri/Illinois					
Mississippi River	43.2	1,500	Perennial	HDD	SSS-FC Spectaclecase
Illinois					
Embarras River	202.9	50	Perennial	HDD	Biologically significant stream
Indiana					
Big Walnut Creek	281.5	55	Perennial	HDD	ORV-recreation, SSS-FE clubshell
Sugar Creek	337.9	40	Perennial	Open-cut	ORV-ecology, SSS-FE clubshell, and INE rabbitfoot
Big Blue River	340.8	160	Perennial	HDD	ORV-ecology
Flatrock River	382.7	60	Perennial	Open-cut	ORV-ecology, SSS-FE clubshell
Whitewater River	393.1	60	Perennial	HDD	ORV-ecology and recreation, SSS-INE variegate darter, and INE cobblestone tiger beetle
Little Cedar Creek	394.7	30	Perennial	Open-cut	SSS-INE variegate darter
Ohio					
Dry Fork Whitewater River	407.2	50	Perennial	Open-cut	EWI
Lick Run	411.8	7	Perennial	Open-cut	EWI
Lick Run	412.0	15	Perennial	Open-cut	EWI
Four Mile Creek	421.8	278	Perennial	HDD	ORV-recreation and fish, EWI
Seven Mile Creek	422.7	45	Perennial	HDD	SSS-OHT tongue-tied minnow
Great Miami River	430.7	293	Perennial	HDD	ORV-recreation, EWI
Tributary to Clear Creek	448.4	15	Intermittent	Open-cut	EWI
Tributary to Newman Run	451.2	3	Intermittent	HDD	EWI
Little Miami River	451.3	60	Perennial	HDD	EWI, SSS-OHE snuffbox, and OHT sawnfoot
Tributary to Little Miami River	451.9	3	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	451.9	8	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	452.0	4	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Little Miami River	452.0	3	Ephemeral	Dam & Pump/Flume	EWI

Table 4.6.2-1 Fisheries of Special Concern Crossed by the Project					
Waterbody	Crossing Location (MP) a/	Width (feet)	Waterbody Type	Proposed Crossing Method b/	Reason for Designation c/
Tributary to Little Miami River	452.3	2	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Little Miami River	452.5	13	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	452.6	8	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	453.3	2	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	453.4	1	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	453.4	3	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.1	4	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.2	8	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.4	7	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.4	3	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.5	7	Intermittent	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.5	10	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	454.7	7	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	455.0	2	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Little Miami River	455.0	14	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	455.2	10	Perennial	Dam & Pump/Flume	EWI
Tributary to Little Miami River	455.2	2	Ephemeral	Dam & Pump/Flume	EWI
Tributary to Shaffers Run	455.4	3	Perennial	Dam & Pump/Flume	EWI
Sandy Run	458.3	10	Intermittent	Dam & Pump/Flume	EWI
Caesar Creek	459.6	134	Perennial	HDD	Foraging and spawning habitat, EWI
Deer Creek	499.6	100	Perennial	HDD	Foraging and spawning habitat
Big Darby Creek	509.2	170	Perennial	HDD	EWI, 88S-FE northern riffleshell/ OHE snuffbox/ OHT fawnfoot

Table 4.6.2-1

Fisheries of Special Concern Crossed by the Project

Waterbody	Crossing Location (MP) ^{a/}	Width (feet)	Waterbody Type	Proposed Crossing Method ^{b/}	Reason for Designation ^{c/}
Scioto River	514.8	200	Perennial	HDD	SSS-FE northern riffleshell/ FE clubshell/ OHE rabbitsfoot/ OHE longesid
Walnut Creek	515.9	90	Perennial	HDD	EWI
Turkey Run	520.2	20	Perennial	Open-cut	EWI
Tributary to Little Walnut Creek	520.5	15	Perennial	Open-cut	EWI
Little Walnut Creek	526.6	30	Perennial	Open-cut	EWI
Muskingum River	577.2	420	Perennial	HDD	SSS-OHT fawnfoot
Southfork Captina Creek ^{d/}	RR 2010 MP 619.8 + 5.5	NA	NA	Open-cut	EWI
Brushy Creek	626.3	20	Perennial	Open-cut	EWI

^{a/} Mileposts (MP) based on a desktop analysis of the proposed pipeline route (may not match those found in Wetland and Waterbody reports)
^{b/} HDD = horizontal directional drilling
^{c/} ORV=outrinsandingly remarkable value, EWI=exceptional warmwater habitat, SSS=special status species, FE=federally listed endangered, INE=Indiana-listed endangered, OHE=Ohio-listed endangered, OHT=Ohio-listed threatened, FC=federal candidate
^{d/} Waterbody is found in the Barnsville route and has not been field surveyed. NA = Not Available.

Table 4.7.1-2

Forested Areas and Expected Impacts Around Mist Net Sites Where Reproductively Active Female Indiana Bats Were Captured and Associated Roost Trees Along the REX East Project

State/County	Habitat ID	Mist Net Sites				Roost Trees			
		Forested Area Within 2.2-mile diameter of Mist Net (acres) g/	Forested Area Within 2.2-mile diameter Area Affected During Construction (acres) g/, h/	Forested Area Within 2.2-mile diameter Area Affected During Operation (acres) g/, h/	Permanent Reduction in Forested Area Within 2.2-mile Diameter Area of Mist Net Site g/, h/	Forested Area Within 2.2-mile diameter Area Affected During Construction (acres) g/, h/	Forested Area Within 2.2-mile diameter Area Affected During Operation (acres) g/, h/	Permanent Reduction in Forested Area Within 2.2-mile Diameter Area of Roost Tree g/, h/	
MISSOURI	MO-1.0	331.6	3.1	0.7	0.2%	224.9	0.9	0.2	0.1%
	MO-3.0	466.1	6.9	2.6	0.6%		No roost tree identified		
	IL-1.0	869.0	18.4	3.3	0.4%		No roost tree identified		
	IN-0.5	663.4	5.3	1.6	0.2%	894.0	11.1	3.0	0.3%
INDIANA	IN-18.0	979.7 g/	27.7 g/	6.4 g/	0.7% g/	1,236.3 g/	27.7 g/	8.4 g/	0.5% g/
	IN-18.0	856.3	17.7	3.8	0.4%				
	IN-19.5	365.3	3.4	0.6	0.2%	377.5	3.4	0.8	0.2%
	IN-32.0	1,569.1	36.5	11.0	0.7%		No roost tree identified		
OHIO	Warren	822.6	13.2	3.9	0.4%		No roost tree identified		
	Belmont	1,324.0	26.0	7.0	0.5%		Not applicable g/		

h/ Forested area is based on National Land Cover Database (NLCD), 2001.

g/ Amount of forest impacts is based on the proposed construction and operation rights-of-way contained with the NLCD, 2001 data.

i/ This area encompasses two overlapping 2.2-mile-diameter circles around two mist net sites where Indiana bats were captured and multiple roost trees. Construction area of effect for either circle was considered to be half the total presented.

j/ This roost was an occupied residence located more than 1.1 miles from the right-of-way.

Table 4.7.1-3

**Forested Area and Expected Impacts Surrounding Areas Where Mist Net Surveys
Could Not be Completed During 2007**

State/County	Number of Mist Net Sites to be Completed	Forested Area Within 2.2-mile Diameter of Roost Tree (acres) <i>a/</i>	Forested Area Within 2.2-mile diameter Area Affected During Construction (acres) <i>a/</i>, <i>b/</i>	Forested Area Within 2.2-mile diameter Area Affected During Operation (acres) <i>a/</i>, <i>b/</i>	Permanent Reduction in Forested Area Within 2.2-mile Diameter Area <i>a/</i>, <i>b/</i>
Pike, MO	1	918.0	23.3	4.0	0.5%
Pike, IL	1	784.2	6.4	4.4	0.6%
Vermilion, IN	2	2,119.8	26.5	8.8	0.4%
Fayette and Pickaway, OH	2	743.8	13.2	6.3	0.8%
Belmont, OH	3	2,484.2	55.7	14.5	0.6%

a/ Forested area is based on National Land Cover Database (NLCD), 2001.
b/ Amount of forest impacts is based on the proposed construction and operation rights-of-way combined with the NLCD, 2001 data.

Table 4.8.1-1

Summary of Land Uses Affected by Construction and Operation of the Project by State (in acres)
REX East Project

	Agriculture g/		Forested h/		Industrial/Commercial g/		Residential g/		Open Land g/		Open Water j/		Total	
	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.	Const.	Oper.
WYOMING														
Aboveground Facilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	15.0	0.0	0.0	15.0	15.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	15.0	0.0	0.0	15.0	15.0
Project Total	10,892.8	2,953.9	3,066.8	885.7	83.0	19.7	19.8	6.8	418.0	173.7	24.3	9.2	14,334.4	4,948.2

NOTE: The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the exact sum of the addends in all cases. Totals may be off by 0.1 place.

g/ Agricultural land consists of pastureland, row crops, and small grains.

h/ Forest land consists mainly of deciduous and mixed forest and forested wetlands. Does not include shrublands or similar features associated with agricultural areas.

i/ Industrial/Commercial land consists of commercial/industrial developments such as utility stations, rock quarries, strip mines, gravel pits, and major railroad and road crossings (i.e., greater than 100 feet).

j/ Residential land consists of existing and planned residential developments.

k/ Open land consists of grasslands, non-farmed areas, and non-forested wetlands.

l/ Open water consists of waterbody crossings 100 feet or greater in width.

m/ Assumes a 125-foot-wide construction right-of-way and a 50-foot-wide permanent right-of-way.

n/ Assumes a 50- to 100-foot-wide construction right-of-way and a 50-foot-wide permanent right-of-way.

o/ Includes construction and operational impact associated with the compressor stations and meter stations and access roads to compressor stations and meter stations. Because methane valves would be constructed within the construction right-of-way, land use impacts are accounted for with the pipelines. However, because methane valves would result in a land use conversion, aboveground totals include permanent impacts associated with methane valves. Temporary pipeline construction and recovery would be used within the area to be disturbed by the compressor stations. Therefore, land use impacts resulting from these facilities are already accounted for in the construction impacts for aboveground facilities.

Table 4.8.3-1
Residences Within 50 ft of Right-of-Way

State/County	Milepost	Dist from Centerline to residence (ft)	Dist from construction work area (ft)	Direction from pipeline	Comments	Drawing ID
MISSOURI						
Pike	23.4	229.0	31.0	N	Residence	MO-PI-016.000
ILLINOIS						
Scott	79.3	38.0	11.0	N	Residence	IL-SC-043.000
Scott	79.6	138.0	39.0	N	Residence	IL-SC-046.000
Scott	81.5	134.0	25.0	N	Residence	IL-SC-084.N01
Morgan	95.9	241.0	42.0	N	Residence	IL-MO-040.N01
Sangamon	126.3	191.0	25.0	S	Residence	IL-SA-224.001
Sangamon	131.1	36.0	25.0	S	Residence	IL-SA-259.000
Macon	165.7	153.0	28.0	S	Residence	IL-MC-062.000
Moultrie	186.6	188.0	27.0	S	Residence	IL-MU-046.001
Edgar	234.2	30.0	5.0	S	Residence	IL-ED-076.000
INDIANA						
Putnam	270.8	173.0	41.0	N	Residence	IN-PU-022.N01
Putnam	272.8	178.0	25.0	N	Residence	IN-PU-035.000
Hendricks	292.2	87.0	47.0	S	Residence	IN-HE-214.000
Hendricks	301.7	168.0	43.0	S	Residence	IN-HE-273.S01
Hendricks	301.8	178.0	48.0	N	Residence	IN-HE-274.000
Franklin	384.4	130.0	25.0	N	Residence	IN-FR-053.010
Franklin	384.5	134.0	25.0	N	Residence	IN-FR-054.N10
Franklin	396.1	76.0	36.0	N	Residence	IN-FR-139.001
Franklin	401.7	34.0	0.0	S	Residence	IN-FR-166.000
Franklin	401.8	90.0	25.0	S	Residence	IN-FR-170.000
OHIO						
Butler	408.0	86.0	21.0	N	Residence	OH-BU-006.000
Butler	408.4	225.0	40.0	N	Residence	OH-BU-009.N01
Butler	408.4	47.0	23.0	N	Residence	OH-BU-009.N02
Butler	408.2	90.0	25.0	N	Residence	OH-BU-022.000
Butler	408.5	119.0	46.0	S	Residence	OH-BU-027.000
Butler	408.6	46.0	21.0	N	Residence	OH-BU-028.000
Butler	409.0	131.0	43.0	N	Residence	OH-BU-039.000
Butler	411.7	79.0	0.0	S	Residence	OH-BU-059.000
Butler	418.8	74.0	25.0	N	Residence	OH-BU-110.000
Butler	419.8	60.0	10.0	N	Residence	OH-BU-119.N01
Butler	419.9	64.0	25.0	N	Residence	OH-BU-120.N01
Butler	423.1	163.0	25.0	S	Residence	OH-BU-145.000
Butler	425.9	131.0	25.0	S	Residence	OH-BU-157.S01
Butler	431.7	46.0	21.0	N	Residence	OH-BU-177.000
Butler	431.7	130.0	25.0	S	Residence	OH-BU-179.000
Butler	431.7	60.0	25.0	N	Residence	OH-BU-179.000
Warren	444.9	177.0	25.0	S	Residence	OH-WA-026.000
Warren	451.7	91.0	27.0	S	Residence	OH-WA-065.000
Warren	451.7	170.0	25.0	N	Residence	OH-WA-065.N02
Warren	452.3	43.0	18.0	S	Residence	OH-WA-076.N01
Clinton	472.1	66.0	15.0	N	Residence	OH-CT-074.000
Greene	474.3	139.0	25.0	S	Residence	OH-GR-009.000
Fayette	485.2	157.0	25.0	S	Residence	OH-FY-026.S01
Fayette	485.2	42.0	18.0	N	Residence	OH-FY-026.N01
Pickaway	516.7	96.0	25.0	S	Residence	OH-PW-103.S01
Pickaway	516.8	96.0	45.0	S	Residence	OH-PW-105.000
Pickaway	527.9	66.0	25.0	S	Residence	OH-PW-016.000
Fairfield	536.4	79.0	28.0	S	Residence	OH-FF-076.000
Fairfield	544.8	115.0	30.0	S	Residence	OH-FF-106.S01
Fairfield	545.1	81.0	25.0	S	Residence	OH-FF-116.S04
Fairfield	545.2	54.0	29.0	S	Residence	OH-FF-120.S01
Fairfield	545.8	51.0	21.0	S	Residence	OH-FF-124.S05
Perry	560.4	46.0	16.0	N	Residence	OH-PY-007.002
Perry	564.6	53.0	25.0	N	Residence	OH-PY-031.000

**Table 4.6.3-1
Residences Within 50 ft of Right-of-Way**

State/County	Milepost	Dist from Centerline to residence (ft)	Dist from construction work area (ft)	Direction from pipeline	Comments	Drawing ID
Perry	560.8	100.0	40.0	N	Residence	OH-PY-051.000
Perry	561.3	131.0	48.0	S	Residence	OH-PY-063.000
Muskingum	568.5	97.0	25.0	S	Residence	OH-MK-001.000
Muskingum	568.6	40.0	10.0	S	Residence	OH-MK-003.000
Muskingum	568.9	196.0	27.0	S	Residence	OH-MK-005.000
Muskingum	567.4	132.0	50.0	S	Residence	OH-MK-010.000
Muskingum	568.5	91.0	46.0	N	Residence	OH-MK-106.000
Muskingum	576.2	130.0	46.0	S	Residence	OH-MK-151.000
Muskingum	576.7	54.0	12.0	N	Residence	OH-MK-152.000
Muskingum	578.8	99.0	27.0	S	Residence	OH-MK-166.801
Guernsey	602.0	86.0	21.0	S	Residence	OH-GN-078.000
Guernsey	609.9	74.0	14.0	S	Residence	OH-GN-128.000

- a/ Due to the scale of the project-specific alignment sheets, the temporary construction right-of-way would appear to extend across these structures. However, Rockies Express has created site-specific residential mitigation drawings that show the construction right-of-way as reduced or 'necked down' to avoid impacting these areas. All site-specific drawings created for the project would supersede the construction right-of-way layout shown on the alignment sheets.
- b/ The residence is shown within the permanent easement. We have recommended an alternate route through the area that would preserve the structure.

Table 4.8.4-1

Planned Developments Crossed by the Proposed Pipeline Route

State, County	MP	Crossing Length (miles)	Development Name	Comment
Illinois, Macon	182.8	0.2	Circle Z Addition	The housing development is under review with the county. Rockies Express sited its pipeline along the southern property line to minimize disturbance.
Indiana, Hendricks	297.5	0.5	Disney Residential Development	The housing development was platted in 1978. No construction has begun. Rockies Express has sited its pipeline route along the property line to minimize disturbance.
Indiana, Morgan	311.7 to 312.0	0.3	Morgan's Hideaway	Subdivision has been submitted to the county and it was turned down by the county. Landowner intends refile the subdivision.
Butler, Ohio	430.8	0.3	Tall Oaks Subdivision	The residential subdivision is currently under construction. Rockies Express is collocated with the existing power line and is sited on the property lines.
Butler, Ohio	431.3	0.4	Todd Glen Reserve	The residential subdivision has been platted and has not been approved. Rockies Express is collocated with the existing power line.
Warren, Ohio	436.4	1.1	Valley View Farms	The residential subdivision has been platted and has not been approved. Rockies Express' proposed route is sited on the property lines.
Fairfield, Ohio	535.6	0.1	Dominion Homes	The residential subdivision has been platted and has been approved. The development is currently under construction. Rockies Express is collocated with Texas Eastern's existing pipeline and the proposed route follows the lot lines.
Fairfield, Ohio	538.3	0.1	Thomas Vejan Homes	The residential subdivision has been platted and has been approved. The development is currently under construction. Rockies Express is collocated with Texas Eastern's existing pipeline and traverses the corner of two lot lines.
Fairfield, Ohio	539.1	0.3	Fairfield Homes	The residential subdivision has been platted and has not been approved. Rockies Express is collocated with Texas Eastern's existing pipeline and the proposed route follows the lot lines.
Fairfield, Ohio	539.4	0.2	Thomas American (also called Diamond Homes)	The residential subdivision has been platted and has been approved. The development is currently building. Rockies Express is collocated with Texas Eastern's existing pipeline and the proposed route follows the lot lines.
Fairfield, Ohio	544.9	0.2	Holder Properties	The residential subdivision has been platted and has not been approved. The development is currently building. Rockies Express is collocated with Texas Eastern's existing pipeline and the proposed route follows the lot lines.

Table 4.8.5-1

Recreation and Special Land Uses Crossed by the Proposed Pipeline Route

State/County	MPs	Crossing Length (miles)	Acres Affected During Construction/ Acres Affected During Operation (Acres)	Name	Management/ Ownership	Proposed Crossing Method
MISSOURI						
Pike	33.4 to 42.2	8.8	133.3 / 53.3	Grassy Creek Conservation Opportunity Area	Missouri Department of Conservation (MDC)	Conventional
Pike	40.0	<0.1	0.0 / 0.0	Scenic Byway - Little Dixie Highway along State Highway 79	Missouri Department of Transportation	Horizontal Bore
Pike	42.8 to 42.9	0.3	0.0 / 0.0	Upper Mississippi (Blackburn Island) Conservation Opportunity Area	Missouri Department of Conservation	HDD
ILLINOIS						
Pike	43.5	<0.1	0.0 / 0.0	Sny Levee	Sny Levee Drainage District	HDD
Sangamon	122.0	<0.1	2.6 / 0.0	Scenic Highway - U.S. Route 66	Illinois Department of Transportation	Horizontal Bore
Sangamon	128.2	0.7	0.0 / 0.0	Hunter Lake Reservoir	City of Springfield, Illinois	Conventional
Douglas	202.9	<0.1	0.0 / 0.0	Embarass River	Illinois Department of Natural Resources	HDD
INDIANA						
Vermillion/Pike	RR 2032 - MP 242.9 + 4.0	0.1	0.0 / 0.0	Indiana Canoe Crossing - Wabash River	Indiana DNR - State of Indiana	HDD
Perle	250.8	<0.1	0.0 / 0.0	B&O Trail	B&O Trail Association	Horizontal Bore
Putnam	288.4	<0.1	0.5 / <0.1	Byrd Branch within Cecil M. Harden Lake	U.S. Army Corps of Engineers (COE)	Open-cut
Putnam	288.9	<0.1	1.8 / 0.1	Big Raccoon Creek within Cecil M. Harden Lake	COE	Open-cut
Putnam	289.9	<0.1	0.5 / <0.1	Tributary to Big Raccoon Creek - within Cecil M. Harden Lake boundary	COE	Open-cut
Putnam	281.5	<0.1	0.0 / 0.0	Big Walnut Creek	Indiana Department of Natural Resources (INDNR)	HDD
Hendricks	288.4 to 288.5	0.1	2.6 / 0.0	Historic National Road - U.S. Highway 40	Indiana Department of Transportation	Horizontal Bore
Morgan	315.5	<0.1	0.1 / <0.01	Indiana Canoe Crossing - Tributary to West Fork White River	Indiana DNR - State of Indiana	Open-cut
Shelby	340.8	<0.1	3.2 / 0.0	Big Blue River	INDNR	HDD
Decatur	375.1 to 375.3	0.2	2.6 / 1.2	Camp Woodstock	Lions Club (private)	Conventional
Franklin	383.2	<0.1	0.0 / 0.0	Indiana Canoe Crossing - Whitewater River	Indiana DNR - State of Indiana	HDD

Table 4.8.5-1

Recreation and Special Land Uses Crossed by the Proposed Pipeline Route

State/County	MPs	Crossing Length (miles)	Acres Affected During Construction/ Acres Affected During Operation (Acres)	Name	Management/ Ownership	Proposed Crossing Method
OHIO						
Butler	421.5 to 421.7	0.1	0.0 / 0.0	Four Mile Creek	Ohio Department of Natural Resources (ODNR)	HDD
Butler	422.7	<0.1	0.0 / 0.0	Seven Mile Creek	ODNR	HDD
Butler	430.7 to 430.8	0.1	0.0 / 0.0	Great Miami River	ODNR	HDD
Warren	450.7	0.1	8.3 / 0.0	Scenic Byway - Accommodation Line	ODNR	Horizontal Bore
Warren	451.3 to 451.4	0.1	0.0 / 0.0	Little Miami River	NPS/ODNR	HDD
Warren	451.6 to 451.7	0.1	0.1 / <0.1	Little Miami Scenic State Park	ODNR	Horizontal Bore
Clinton	459.5 to 459.8	0.2	2.6 / 1.0	Caesar Creek State Park and Wildlife Area	ODNR	HDD and Conventional
Fayette	488.4	<0.1	0.1 / <0.1	Paint Creek	ODNR	Open-cut
Pickaway	499.9 to 500.5	1.1 <0.1	16.7 / 6.7	Deer Creek Wildlife Area	ODNR	Conventional
Pickaway	499.9 to 500.8 500.8 to 500.9	0.9 0.1	15.1 / 6.1	Deer Creek State Park	ODNR	HDD/ Conventional/ Horizontal Bore
Pickaway	508.2 to 508.3	0.1	4.2 / 0.0	Big Darby Creek	NPS/ODNR	HDD
Perry	559.5 to 559.7 559.8 to 559.9	0.2 1.0	18.1 / 7.3	Perry State Forest	ODNR	Conventional
Muskingum	561.5 to 562.7	1.1	16.7 / 6.7	Blue Rock State Forest	ODNR	Conventional
Guernsey	607.7 to 608.5 ^{a/}	Unknown ^{b/}	Unknown ^{b/}	White Oak Exotic Hunting Preserve	Privately owned	Conventional
Belmont	RR 2010 - MP 619.8 + 5.0 to RR 2010 - MP 619.8 + 5.5	0.5	7.5 / 2.8	Captina Creek Preserve	Privately owned ^{c/}	Conventional
Belmont	628.5 to 630.3	1.9	27.3 / 10.9	Raven Rocks	Privately owned	Conventional

^{a/} Blackbarn Island is owned by CDE, leased to FWS, and managed by the Missouri Department of Conservation.^{b/} MP's are approximate. A recommendation has been included that Rockies supply additional information on the White Oak Exotic Hunting Preserve.^{c/} While Captina Creek Preserve is currently not formally recognized as a preserve we have included it in this analysis.

Table 4.2.2-1
Potential Visual Impacts Associated with Major Aboveground Facilities g/

State/County	Facility	MP	Nearest Public Viewshed	Visual Impact	Distance from Facility to Viewshed (feet)
MISSOURI					
Audrain	Mexico Compressor Station	0.0	Road 441	Highly visible from immediate surrounding roads	334
ILLINOIS					
Christian	Blue Mound Compressor Station	144.1	North 1400 East Road	Highly visible from immediate surrounding roads	388
Moultrie	NGPL Meter Station	178.7	Unnamed Road	Visible from adjacent road	158
Moultrie	Ameren Power Company Meter Station	180.4	Hammond Road	Visible from adjacent road	128
Douglas	Trunkline Gas Company Meter Station	195.7	North County Road 800 East	Visible from adjacent road	120
Edgar	Midwestern Meter Station	231.8	North 1725th Street	Visible from adjacent road	130
INDIANA					
Putnam	Panhandle Eastern Pipe Line Company Meter Station	274.5	West Cord 850 North Road	Visible from adjacent road	176
Putnam	Bainbridge Compressor Station	277.3	North County Road 25 West	Highly visible from immediate surrounding roads and Walnut Creek	656
Morgan	Citizen Gas & Coke Utility Meter Station	305.9	Greencastle Road	Visible from adjacent road	174
Johnson	Indiana Gas Company Meter Station	316.4	Old Road	Visible from adjacent road	394
Shelby	ANR Meter Station	342.3	South 800 West Road	Visible from adjacent road	851
OHIO					
Butler	Hamilton Compressor Station	437.3	Emerald Way Road	Visible from adjacent road	581
Warren	Lebanon Hub – Dominion, TETCO, Texas Gas, Vectren, and Columbia Gas Meter Station	444.0	Unnamed Road	Visible from adjacent road	342
Fairfield	Columbia Gas Meter Station	539.8	Old Millersport Road NE	Visible from adjacent road	315
Muskingum	Chandlersville Compressor Station	575.0	Irish Ridge Road	Visible (moderately) from road	1,214
Guernsey	Tennessee Gas Meter Station	592.4	Spencer Road	Visible from adjacent road	615
Noble	Dominion Transmission, Inc Meter Station	612.3	Saint John Road	Visible from road	1,382

Table 4.8.6-1**Potential Visual Impacts Associated with Major Aboveground Facilities g/**

State/County	Facility	MP	Nearest Public Viewshed	Visual Impact	Distance from Facility to Viewshed (feet)
Monroe	Clarington Hub – Dominion Transmission, Dominion East Ohio, and TETCO Meter Station	638.1	Township Highway 964	Visible from adjacent road	1,083

g/ The Arlington and Bertrand compressor stations would not have visual impacts.

Table 4.10.1-1
Cultural Resources Surveys Status as of February 12, 2008

Factor	Missouri	Illinois	Indiana	Ohio	Wyoming	Nebraska
Number of Miles Surveyed to Date	43.02	188.2	155.4	230.5	N/A	N/A
Percentage of Miles Surveyed	100%	98.5%	93.5%	98.2%	N/A	N/A
Total Acreage Surveyed to Date g/	1,335.0	5,348.4	5,847.8	6,187.8	20.0	17.7
Total Number of Resources Identified to Date	92	441	758	585	1	0

g/ Acreage total includes 200-foot-wide survey corridor, contractor yards, meter stations, compressor stations, additional temporary workspaces, and access roads.

N/A = not applicable