## CONSERVATION PRACTICE PHYSICAL EFFECTS WORKSHEET

ST	ATE	Nebraska 1	FIELD	OFFICE	Any		DATE	12/27/2011
PR	ACTICE	: Pipeline 516		Baseline S	•			-
				Appropriate Land Use(s): All Land Uses				
RESOURCES, CONSIDERATIONS AND CONCERNS			PHYSICAL EFFECTS			RATIONALE		
SO	IL - ERO	OSION				_		
She	eet and Ri	1		Not Applie	cable	No	t applicable.	
Wi	nd			Not Applicable		No	Not applicable.	
Epl	hemeral G	ully		Not Applicable			Not applicable.	
	ssic Gully	I		Not Applicable		No	Not applicable.	
	eambank			Not Applicable			Not applicable.	
	oreline			Not Applicable			Not applicable.	
	gation Ind			Not Applie			Not applicable.	
	ss Moven			Not Applie			Not applicable.	
		ides, and Construction	n	Not Applie	cable	No	Not applicable.	
Site								
SO	IL – CON	NDITION						
Org	ganic Matt	ter Depletion		Not Applie	cable		Not applicable.	
Ra	ngeland Si	ite Stability		Neutral	Neutral		Short term increase along	
							beline route.	
	mpaction					ot applicable.		
	osidence			Not Applie	cable	No	ot applicable.	
Co	ntaminant							
•	Salts and	d other Chemicals		Not Applie			ot applicable.	
•	Animal 'N	Waste and other Orga	nics -	Not Applie	cable	No	ot applicable.	
•	Animal 'P	Waste and other Orga	nics -	Not Applie	cable	No	ot applicable.	
•	Animal 'K	Waste and other Orga	nics -	Not Applie	cable	No	ot applicable.	
•	Commer	cial Fertilizer - N		Not Applie	cable	No	t applicable.	
•	Commer	cial Fertilizer – P		Not Applie	cable		ot applicable.	
•		cial Fertilizer – K		Not Applie			ot applicable.	
•		Pesticides		Not Applie	cable		ot applicable.	
Da		n Sediment Depositio	n	Not Applie		**		
		QUANTITY						
		ydrologic Cycle		Not Applie	cable	No	ot Applicable	
		· · · · · · · · · · · · · · · · · · ·		Not Applie		Not applicable.		
Excessive Seepage Excessive Runoff, Flooding, or		Not Applie						
	nding	mori, i rooding, or		Tiotrippin	Jul 10	110	л аррисаоте.	
Excessive Subsurface Water		Not Applicable Not applicable.						
Drifted Snow				ot Applicable Not applicable.				
Inadequate Outlets			Not Applicable Not applicable.					
Inefficient Water use on Irrigated Land			Not Applicable Not applicable.					
Ine	Inefficient Water use on Non-Irrigated Land		Not Applie			Not applicable.		
Reduced Capacity of Conveyances by Sediment Deposition			Not Applie	cable	No	Not applicable.		
Re	Reduced Storage of Water Bodies by Sediment Accumulation			Not Applie	cable	No	ot applicable.	

Aquifer Overdraft	Not Applicable	Not applicable.
Insufficient Flows in Water Courses	Not Applicable	Not applicable.
WATER – QUALITY	Trot ripplicable	Tiot applicable.
In Groundwater:		
Harmful Levels of Pesticides	Not Applicable	Not applicable.
Excessive Nutrients and Organics	Not Applicable	Not applicable.
Excessive Salinity	Not Applicable	Not applicable.
Harmful Levels of Heavy Metals	Not Applicable	Not applicable.
Harmful Levels of Pathogens	Not Applicable	Not applicable.
Harmful Levels of Petroleum	Not Applicable	Not applicable.
In Surface Water:	TP	The state of the s
Harmful Levels of Pesticides	Not Applicable	Not applicable.
Excessive Nutrients and Organics	Not Applicable	Not applicable.
Excessive Suspended Sediment and Turbidity	Not Applicable	Not applicable.
Excessive Salinity	Not Applicable	Not applicable.
Harmful Levels of Heavy Metals	Not Applicable	Not applicable.
Harmful Temperatures	Not Applicable	Not applicable.
Harmful Levels of Pathogens	Not Applicable	Not applicable.
Harmful Levels of Petroleum	Not Applicable	Not applicable.
AIR – QUALITY	**	
Particulate Matter less than 10 Micrometers in Diameter (PM 10)	Not Applicable	Not applicable.
Particulate Matter less than 2.5 Micrometers in Diameter (PM 2.5)	Not Applicable	Not applicable.
Excessive Ozone	Not Applicable	Not applicable.
Excessive Greenhouse Gas:		
• CO <sub>2</sub> (Carbon Dioxide)	Not Applicable	Not applicable.
• N <sub>2</sub> 0 (Nitrous Oxide)	Not Applicable	Not applicable.
• CH <sub>4</sub> (Methane)	Not Applicable	Not applicable.
Ammonia (NH <sub>3</sub> )	Not Applicable	Not applicable.
Chemical Drift	Not Applicable	Not applicable.
Objectionable Odors	Not Applicable	Not applicable.
Reduced Visibility	Not Applicable	Not applicable.
Undesirable Air Movement	Not Applicable	Not applicable.
Adverse Air Temperature	Not Applicable	Not applicable.
PLANTS – SUITABLIITY		
Plants not Adapted or Suited	Not Applicable	Not applicable.
PLANTS - CONDITION		
Productivity, Health, and Vigor	Slight to Moderate Improvement	Available water to facilitate grazing management improves growth and vigor of plants.
Threatened or Endangered Plant Species:		
Plant Species Listed or Proposed for Listing Under the Endangered Species Act	Not Applicable	Not applicable.
Declining Species, Species of Concern	Not Applicable	Not applicable.
Noxious and Invasive Plants	Not Applicable	Not applicable.
Forage Quality and Palatability	Not Applicable	Not applicable.
Wildfire Hazard	Not Applicable	Not applicable.

ANIMALS - FISH AND WILDLIFE		
Inadequate Food	Not Applicable	Not applicable.
Inadequate Cover/Shelter	Not Applicable	Not applicable.
Inadequate Water	Not Applicable	Not applicable.
Inadequate Space	Not Applicable	Not applicable.
Habitat Fragmentation	Not Applicable	Not applicable.
Imbalance Among and Within	Not Applicable	Not applicable.
Populations	Not Applicable	Not applicable.
Threatened and Endangered Fish and		
Wildlife Species:		
Fish and Wildlife Species Listed or	Neutral	Activities are designed, installed,
Proposed for Listing Under the		and mitigated to an extent to
Endangered Species Act		maintain or enhance species of
· ·		concern.
• Declining Species, Species of	Neutral	Activities are designed, installed,
Concern		and mitigated to an extent to
		maintain or enhance species of
		concern.
ANIMALS – DOMESTIC		
Inadequate Quantities and Quality of	Not Applicable	Not applicable.
Feed and Forage		
Inadequate Shelter	Not Applicable	Not applicable.
Inadequate Stock Water	Substantial Improvement	Pipeline facilitates the
		distribution of water to livestock.
Stress and Mortality	Moderate to Substantial	Pipelines facilitate the
	Improvement	distribution and availability of
		water reducing stress and
HUMAN – ECONOMICS		mortality.
Land - Change in Land Use	Not applicable.	Not applicable.
Land - Change in Land Use  Land – Land in Production	Slight Decrease	Slight short-term decrease
Capital – Change in Equipment	Moderate increase.	Stight short-term decrease
Capital - Change in Equipment Capital - Total Investment Cost	Moderate.	Moderate.
*		Moderate.
Capital – Annual Cost	Slight increase.	
Capital – Credit and Farm Program Eligibility	Situational.	
Labor - Labor	Slight to moderate decrease.	
Labor – Change in Management Level	Slight to moderate decrease.	
Risk - Yield	Not Applicable.	Not Applicable.
Risk - Flexibility	Moderate Decrease	Moderate decrease due to
•		enhanced capability of grazing
		area.
Risk - Timing	Not applicable.	Not applicable.
Risk – Cash Flow	Slight to Moderate Increase	Slight to moderate increase
		because of implementation cost.
Profitability – Change in Profitability	Situational	Slight decrease to moderate
•		increase.
HUMAN - CULTURAL		
Cultural Resources and/or Historic	Slight to Substantial Increase	Construction impacts
Properties Present or Suspected to be		(mechanical).
PRESENT		<u> </u>
HUMAN – ENERGY		

		the need for hauling.
Underutilization of Non-Fossil Energy	Not Applicable	Not Applicable
Resources		

## **Human Considerations Explanation**

Considerations	Physical effects indicate:
Land - Change in	The degree to which implementing the conservation practice is expected to cause
Land Use	a change from one land use to another.
Land - Land in	The degree to which implementing the conservation practice is expected to cause
Production	an increase or decrease in the amount of land in production.
Capital - Change in	The degree to which implementing the conservation practice is expected to cause
Equipment	an increase or decrease in the amount of capital equipment required for farm or
	ranch operations.
Capital - Total	A qualitative measure of the increase in total investment dollars required in order
<b>Investment Cost</b>	to implement the conservation practice.
Capital - Annual	A qualitative measure of the expected change in annual capital costs required in
Cost	order to operate and maintain the conservation practice.
Capital - Credit &	Included to make conservation planners aware of the potential availability of
Farm Program	funding for implementing conservation practices.
Eligibility	
Labor – Labor	The degree to which implementing the conservation practice is likely to cause an
	increase or decrease in the total amount of overall farm or ranch labor required
	for operations.
Labor - Change in	The degree to which implementing the conservation practice is likely to cause an
Management Level	increase or decrease in the total amount of required active management on a farm
D. 1. T. 1.1	or ranch.
Risk – Yield	The degree to which risk, as related to crop or livestock yields, is expected to
D' 1 El '1''	increase or decrease as a result of implementing the conservation practice.
Risk – Flexibility	The degree to which risk, as related to the flexibility of farm or ranch operations,
	is expected to increase or decrease as a result of implementing the conservation
	practice. For example, converting from flood irrigation to a sprinkler system gives a farmer an increase in flexibility of irrigation, which results in a decrease
	in the level of risk associated with inflexibility of operations.
Risk – Timing	The degree to which risk, as related to the timing of farm or ranch operations, is
Nisk – Tilling	expected to increase or decrease as a result of implementing the conservation
	practice.
Risk - Cash Flow	The degree to which risk, as related to cash flow in farm or ranch operations, is
	expected to increase or decrease as a result of implementing the conservation
	practice.
Profitability -	The degree to which farm or ranch profitability is expected to increase or
Change in	decrease as a result of implementing the conservation practice.
Profitability	
Cultural Resources	The degree to which implementation of the conservation practice is expected to
and/or Historic	increase or decrease the risk of cultural resource disturbance, degradation, or
<b>Properties Present</b>	loss.
or Suspected to be	
Present	
Depletion of Fossil	Inefficient use of fossil-originated energy sources (diesel, gasoline, propane,
Fuel Resources	natural gas, coal), lubricants, and other materials.
Underutilization of	Available and cost-effective alternative energy sources (solar, wind, biofuel,
Non-Fossil Energy	hydroelectric, geothermal) are not being used or are being used inefficiently.
Sources	