

United States Department of Agriculture - Rural Development

Project: _____ **Engineer:** _____
Date: _____ **Reviewer:** _____

USDA RUS Bulletin 1780-2 (revised 04/04/13) Checklist - Preliminary Engineer Reports "PER" for the Water and Waste Disposal Program shall be formatted as follows:

Item	Description	Yes	No
1)	PROJECT PLANNING:		
a.	Location		
b.	Environmental Resources Present		
c.	Population Trends		
d.	Community Engagement		
2)	EXISTING FACILITIES:		
a.	Location map		
b.	History		
c.	Condition of Existing Facilities		
d.	Financial Status of any Existing Facilities		
e.	Water/Energy/Waste Audits		
3)	NEED FOR PROJECT:		
a.	Health, Sanitation and Security		
b.	Aging Infrastructure		
c.	Reasonable Growth		
4)	ALTERNATIVES CONSIDERED:		
a.	Description		
b.	Design Criteria		
c.	Map		
d.	Environmental Impacts		
e.	Land Requirements		
f.	Potential Construction Problems		
g.	Sustainability Considerations		
i)	Water and Energy Efficiency		
ii)	Green Infrastructure		
iii)	Other		
h.	Cost Estimates		
5)	SELECTION OF AN ALTERNATIVE:		
a.	Life Cycle Cost Analysis		
b.	Non-Monetary Factors		
6)	PROPOSED PROJECT (RECOMMENDED ALTERNATIVE):		
a.	Preliminary Project Design		
b.	Project Schedule		
c.	Permit Requirements		
d.	Sustainability Considerations		
i)	Water and Energy Efficiency		
ii)	Green Infrastructure		
iii)	Other		
e.	Total Project Cost Estimate (Engineer's Opinion of Probable Cost)		
f.	Annual Operating Budget		
i)	Income		
ii)	Annual O&M Costs		
iii)	Debt Repayments		
iv)	Reserves		
7)	CONCLUSIONS AND RECOMMENDATIONS		

NOTE: All Preliminary Engineering Reports "PER" shall be Bound, Sealed and Signed by a Registered Professional Engineer in accordance with the State of Illinois.