

LBNRD Regional Well Field Project Funding Summary

1. Project Costs

Shared costs based on percentage of gpm		GPM
Fairbury Percent	71.43%	1000
NRD Percent	28.57%	400
Total	100.00%	1,400

Project Costs	Shared Cost with Fairbury	NRD Only		NRD portion Shared	Total NRD	Fairbury Portion
Development-Trans Main	\$ 2,518,000			\$ 719,429	\$ 719,429	\$ 1,798,571
Development-Redundant line BP Station		\$ 1,323,900			\$ 1,323,900	\$ -
Development-Radio Read Meters		\$ 360,000			\$ 360,000	\$ -
Development-Well Field, Generator	\$ 1,650,000			\$ 471,429	\$ 471,429	\$ 1,178,571
Development- SCADA & Controls	\$ 200,000			\$ 57,143	\$ 57,143	\$ 142,857
Development- Power to well field	\$ 150,000			\$ 42,857	\$ 42,857	\$ 107,143
Construction Contingencies	\$ 569,800	\$ 207,600		\$ 162,800	\$ 370,400	\$ 407,000
Survey, Design, and Const Services	\$ 501,400	\$ 182,500		\$ 143,257	\$ 325,757	\$ 358,143
Legal		\$ 10,000			\$ 10,000	\$ -
Interim Financing		\$ 115,000			\$ 115,000	\$ -
Land & Access Road	\$ 94,000			\$ 26,857	\$ 26,857	\$ 67,143
Legal Surveys	\$ 15,000			\$ 4,286	\$ 4,286	\$ 10,714
Rounding				\$ 371	\$ 371	\$ 429
Initial Working Capital	\$ 56,000			\$ 16,000	\$ 16,000	\$ 40,000
Additional Testing year 1	\$ 30,000			\$ 8,571	\$ 8,571	\$ 21,429
Rounding					\$ -	\$ -
Total	\$ 5,784,200	\$ 2,199,000		\$ 1,653,000	\$ 3,852,000	\$ 4,132,000
Costs added by USDA						

2. O&M

LBNRD system O&M costs including the cost of water from the Regional Well Field

O&M Expense Item	Annual Expense
Engineering	\$ 2,000
Utilities	\$ 16,800
Contract Water Purchase	\$ 32,537
Other	\$ 17,520
Legal	\$ 4,000
Insurance	\$ 6,000
Salaries/Benefits	\$ 52,360
Repairs/Maintenance	\$ 29,600
Administrative/Office	\$ 5,750
Total	\$ 166,567

O&M amounts outside water purchases was from information entered in RD Apply. These numbers represented 140% more than the historical average for the period 2017-2019.

3. Water Purchase calculations

O&M		Cost/1,000
Well Check/Labor-F	\$ 16,640	\$ 0.05
Administrative Cost/Mileage-F	\$ 10,000	\$ 0.03
Regulatory Compliance 1st Year		\$ -
Insurance-F	\$ 8,000	\$ 0.02
Regulatory Compliance 2nd Year on-F	\$ 10,000	\$ 0.03
Well Maintenance-V	\$ 5,000	\$ 0.01
Internet/Propane/Diggers hotline-F	\$ 2,500	\$ 0.01
Audit-F	\$ 6,000	\$ 0.02
Power-V	\$ 120,587	\$ 0.34
		\$ -
Total	\$ 178,727	\$ 0.50

SLA				
Description	Life	Repl. Cost	Annual Value	Cost/1,000
SCADA Control System	10	\$ 100,000	\$ 10,000	\$ 0.03
Water Level Sensors/Transducers	15	\$ 10,000	\$ 667	\$ 0.00
Chemical Feed Equipment	15	\$ 20,000	\$ 1,333	\$ 0.00
Well Pumps and Motors	15	\$ 60,000	\$ 4,000	\$ 0.01
Well and Master Meters	15	\$ 20,000	\$ 1,333	\$ 0.00
Software				\$ -
Total			17,333	\$ 0.05

O&M Margin	10.00%	Cost/1,000
O&M	\$ 17,873	\$ 0.05

Summary of Water Costs	
O&M	\$ 0.50
SLA	\$ 0.05
Operating Margin 10%	\$ 0.05
Total Cost/1,000 gallons	\$ 0.60

Revised Water Purchases 11/24/2020			Cost	Total Costs
Fairbury	300,000,000		\$ 0.60	\$ 180,000
LBNRD	54,220,315		\$ 0.60	\$ 32,532
Total	354,228,454	\$ 354,228		\$ 212,532
Total Revenue				\$ 212,532
Total Expenses				\$ 196,060
Net				\$ 16,472

