

# Eldorado Area Water and Sanitation District Asset Management Plan

*Prepared for*

Eldorado Area Water and Sanitation District



January 2016

**ch2m.**<sup>SM</sup>

1500 International Drive  
Spartanburg, SC 29303-6745

# Contents

Section	Page
<b>Acronyms and Abbreviations.....</b>	<b>v</b>
<b>1 Background and Purpose.....</b>	<b>1-1</b>
1.1 Eldorado Area Water and Sanitation District Mission Statement .....	1-1
1.2 Eldorado Area Water and Sanitation District Utility Description .....	1-2
<b>2 Vertical Assets .....</b>	<b>2-1</b>
2.1 Asset Registry.....	2-1
2.2 Vertical Asset Condition.....	2-1
2.3 Vertical Asset Remaining Life.....	2-4
<b>3 Linear Assets.....</b>	<b>3-1</b>
3.1 Linear Asset Remaining Life .....	3-1
<b>4 Risk .....</b>	<b>4-1</b>
4.1 Levels of Service.....	4-1
4.2 Consequence Matrix.....	4-1
4.3 Likelihood Matrix .....	4-2
4.4 Risk Objectives .....	4-3
<b>5 Asset Replacement Modeling .....</b>	<b>5-1</b>
5.1 Asset Replacement Triggers.....	5-2
<b>6 Funding Strategy.....</b>	<b>6-1</b>
6.1 Funding Requirements Determination .....	6-1
6.2 Planning and implementation of Funding Strategy .....	6-1
<b>7 Works Cited .....</b>	<b>7-1</b>
 <b>Appendixes</b>	
A Questions for all Asset Types	
B Risk Ranking and Risk Scores	
C Details for all Assets	
 <b>Tables</b>	
1 Production Rates	
2 Condition Rating Scale	
3 Vertical Asset Types Update	
4 Motor Control Center Question/Answer Sheet	
5 Remaining Life Percentages	
6 Asset Type Typical Estimated Life Values	
7 General Service Life for Linear Assets	
8 Pipe Service Lives	
9 Pipe, Water Meter, Valve, and Hydrant Inventory	
10 Eldorado Area Water and Sanitation District Consequence Matrix (2011)	
11 Eldorado Area Water and Sanitation District Likelihood Matrix (2011)	

**Figures**

- 1 EAWSD District Boundary and Service Areas
- 2 Eldorado Area Water and Sanitation District Vertical Asset Condition (2011)
- 3 Condition from Pipe Age
- 4 Example Plot of AC Pipe Decay Curve for 45-Year-Old Pipe
- 5 Asset Risk Profile (2011)
- 6 Risk Score by Location
- 7 Asset Replacement Model
- 8 Asset Replacement Model Triggers
- 9 Asset Replacement Model Process
- 10 Condition Assessment Process

# Acronyms and Abbreviations

ACES	Asset Condition Evaluation System
afy	acre-feet per year
AMP	Asset Management Plan
ARM	asset replacement model
AWWA	American Water Works Association
CIP	capital improvement project
CMMS	computerized maintenance management system
DWSRLF	Drinking Water State Revolving Loan Fund
EAWSD	Eldorado Area Water and Sanitation District
FY	fiscal year
GIS	geographic information system
ICIP	Infrastructure Capital Improvements Plan
kgal	kilogallons
kgal/day	kilogallons per day
MC	Maintenance Connection
SCADA	supervisory control and data acquisition
WTB	New Mexico Water Trust Board

# Background and Purpose

Eldorado Area Water and Sanitation District (EAWSD) acquired and began operating its water system in 2004. Since then, EAWSD has practiced asset management for its fixed assets in accordance with industry-accepted principles and has developed and maintained data, systems and records typically included in an asset management plan. To ensure its investments are protected and maintained for optimum longevity, the New Mexico Water Trust Board (WTB) established a Project Management Policy in 2015 that requires applicants for water project funding to submit an Asset Management Plan with specified elements. This Asset Management Plan (AMP) documents EAWSD's asset management processes and demonstrates compliance with the WTB requirements for asset management. This plan also documents the procedures used to manage and maintain EAWSD infrastructure. The EAWSD AMP seeks to ensure that assets continue to perform their designed function for the lowest cost and longest life while maintaining defined levels of service. To accomplish this, EAWSD maintains documentation for the following:

- Assets owned
- Asset locations
- Asset conditions
- Risks assets pose to EAWSD
- Asset values
- Vertical (aboveground) and linear (underground pipelines) asset management

The following five processes are used to manage EAWSD infrastructure:

1. Annual condition assessment for vertical assets using the CH2M Asset Condition Evaluation System (ACES)
2. Pipe service life curves for linear asset condition determination
3. Geographic information system (GIS) for location and tracking of linear assets
4. Maintenance Connection (MC) computerized maintenance management system (CMMS) for vertical asset tracking
5. Remaining life calculations for vertical assets using ACES

## 1.1 Eldorado Area Water and Sanitation District Mission Statement

The mission of EAWSD staff and board of directors is to do the following:

1. Provide safe, reliable, and cost-effective drinking water to EAWSD ratepayers
2. Protect the investment of EAWSD taxpayers and ratepayers through sound financial management, and carefully planned and responsible maintenance and improvement of the water system infrastructure
3. Provide outstanding customer service to EAWSD ratepayers
4. Conduct all business openly and transparently
5. Protect and preserve the water supply for future generations

The specific mission statement for EAWSD’s asset management is to:

*Help preserve, protect, and enhance the quality of life in the Eldorado area by systematically managing water utility assets in an efficient, effective and sustainable manner.*

## 1.2 Eldorado Area Water and Sanitation District Utility Description

EAWSD is a water and sanitation district and local governmental body, established in July 1997, with all the powers of a public or quasi-municipal corporation (New Mexico Statutes Annotated 1978, §73-21-9(I) [2005]). EAWSD is owned by its ratepayers and taxpayers and governed by a board of five directors elected by and from the ratepayers and EAWSD taxpayers.

As of December 2015, EAWSD serves 2,971 connections, with an estimated population of 6,000 to 7,000 people. Of these connections, 98 percent are residential and 2 percent are commercial or public authority. There are no industrial connections within the EAWSD service area.

EAWSD is an enterprise agency and is responsible for all utility operating expenses and debt service. Income is from water sales revenues, fees, and property tax receipts. New commodity rates and monthly base fees were approved by the EAWSD board of directors in December 2015 and implemented in January 2016. EAWSD has an inclining block rate structure, with increasing rate tiers (six tiers) for increased monthly usage. It also imposes a conservation surcharge for usage over 10,000 gallons per month for May through August.

EASWD serves 23 unincorporated communities in the Eldorado area (see Figure 1 for service area and EAWSD boundaries). The utility was acquired from a private developer through its powers of eminent domain (NMSA 1978, §73-21-16(J) [1985]) in December 2004.

The EAWSD service area encompasses approximately 24 square miles. The utility serves 2,971 metered connections on more than 130 miles of distribution and transmission pipelines, and includes more than 600 fire hydrants. Customer connections are served primarily by gravity flow from six storage tanks with a total capacity of 2.5 million gallons. Seven booster pump stations currently transfer water from the wells to the storage tanks. Water delivery to customers from the tanks is managed with infrastructure in 4 primary pressure zones, including 28 pressure reducing valves and more than 600 isolation valves.

All water is groundwater from 10 currently active production wells in 2 fields: (1) the Central Well Field has 8 wells producing about 610 kilogallons (kgal)/day, and (2) the Galisteo Creek Alluvium Well Field has 2 wells producing up to 200 kgal/day when water is available in the alluvium at or above the minimum operating level in the wells (that is, in wet years). Current total production capacity is 610 kgal/day, sustained, with 1,015 kgal/day maximum, in dry years, and up to 813 kgal/day, sustained, with 1,315 kgal/day maximum, in wet years. EAWSD also owns and maintains inactive production wells and monitoring wells.

Customer demand is seasonal, ranging from winter means of approximately 400 kgal/day to summer means of 600 to 700 kgal/day, with high demand in summer of 800 to 900 kgal/day, and peak demand for a few days each year of above 1 million gallons per day.

Annual production to meet demand has been 476 to 544 acre-feet per year (afy) for the past 5 years, with higher demand in dry years. Since implementation of the tiered rate structure in 2007, demand has decreased due in part to customer conservation and in part to ongoing improvements managing system losses and leaks. Current production is 476 afy (155 million gallons per year). System losses and leaks have been approximately 10 percent of production for the past few years.

EAWSD historical production rates, including system losses, are shown in Table 1.

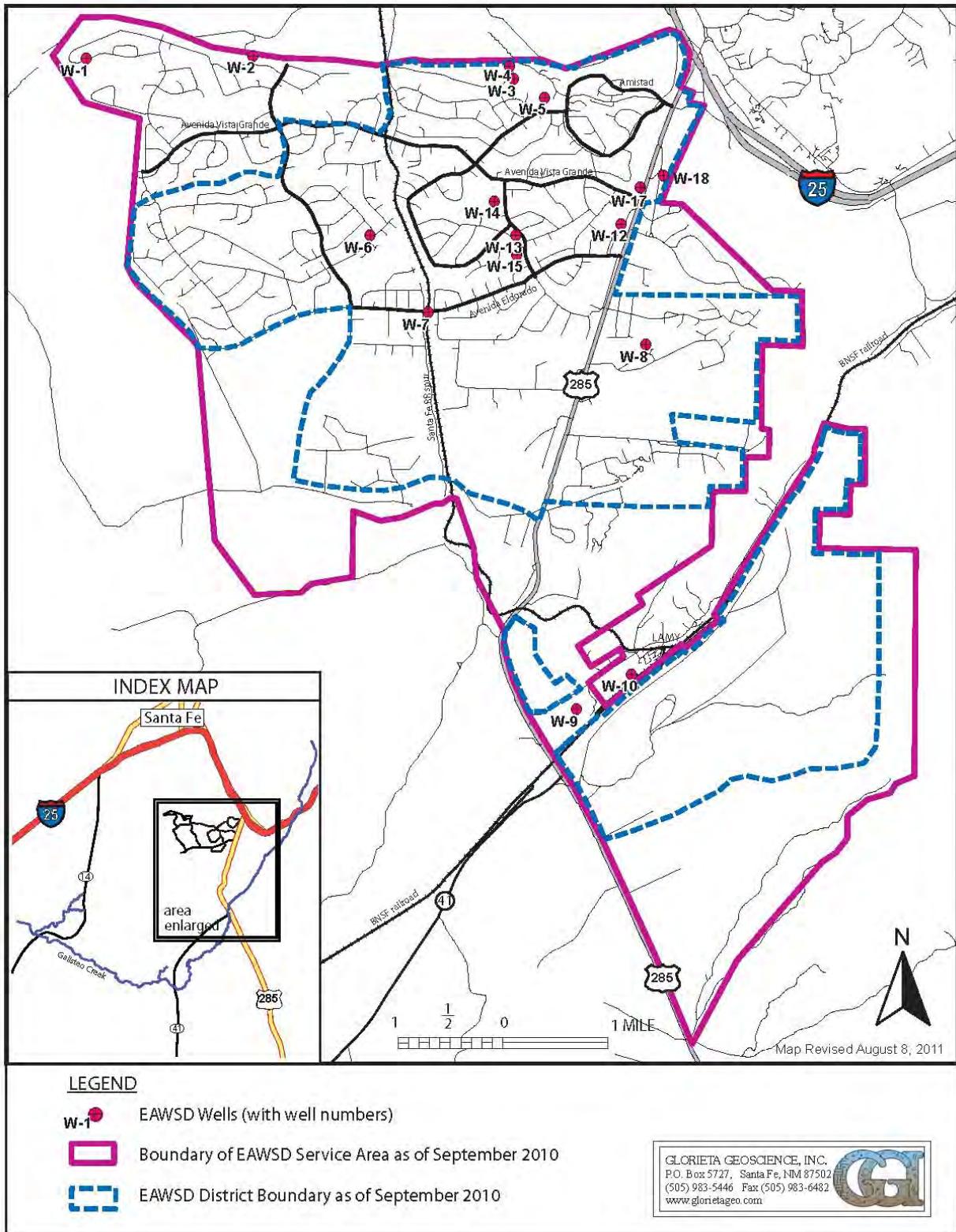


Figure 1. EASWD District Boundary and Service Area

**Table 1. Production Rates**

<b>Calendar Year</b>	<b>Production (afy)</b>	<b>Total Connections (Year End)</b>	<b>Per Connection (afy)</b>
2005	571	2,862	0.200
2006	534	2,900	0.184
2007	574	2,925	0.196
2008	568	2,930	0.194
2009	528	2,936	0.180
2010	516	2,937	0.176
2011	544	2,924	0.186
2012	528	2,930	0.180
2013	500	2,943	0.170
2014	498	2,950	0.169
2015	476	2,971	0.160

Notes:

afy = acre-feet/year

Annual average water consumption for residential use has been decreasing since 2011, as shown in the production per connection in Table 1, and is currently 67.4 gallons per capita day.

EAWSD has 783 afy of water rights under the New Mexico Office of the State Engineer Partial License RG-18529 and License RG-18556, issued June 4, 2010, with the potential to develop another 254 afy of rights by January 2031. A geohydrology and groundwater modeling evaluation by Glorieta Geoscience, Inc., in July 2007, indicated more than 100 years of water were available in the ground at 600 afy EAWSD production rates, including estimated effects of pumping from private domestic wells in the area, with the addition of an adequate number of replacement and new wells.

EAWSD is operated by a two-person staff (the general manager and administrative assistant), and principal contractors (including operations and maintenance with billing and collection of fees, project management, and a financial services), for a total of 12 full-time-equivalent employees. Additional support is obtained on a contractual, as-needed basis, from consulting professional organizations in geology/hydrology, engineering and project monitoring, and legal services; and from volunteers, including the board of directors and other community members.

In addition to routine, scheduled maintenance of valve rebuilding/replacement, tank cleanings, well rehabilitations, line repairs, and other repairs, capital improvement projects (CIPs) are implemented as funding becomes available through District income or from grants and loans.

A system-wide utility master plan was completed in 2013 to identify and prioritize CIPs. Recent CIPs to improve system components and subsystems include the following:

- Replacing older customer meters with radio-read meters with water-use monitoring capability
- Upgrading and replacing the outdated supervisory control and data acquisition (SCADA) system
- Adding backup well capacity and upgrading two booster pump stations
- Re-drilling an older production well
- Reconfiguring and optimizing pressure zones

- Planning and exploratory drilling for the next production well
- Planning and design of office, workshop, and storage facilities

Planned future CIPs will be implemented as funds become available, including the following:

- Continuing replacing meters
- Continuing optimizing pressure zones
- Adding to the SCADA system
- Drilling new production wells
- Connecting to Santa Fe County wholesale water supply line, if and when the supply has been constructed in such a manner as to permit connection by EAWSD
- Adding transmission lines and upgrading booster pump stations
- Re-drilling existing wells
- Replacing transmission and distribution lines

# Vertical Assets

## 2.1 Asset Registry

To achieve its mission, EAWSD must maintain its asset database, which contains information about the assets included in the water system, including asset location and asset value. These data are contained and managed in MC CMMS.

The vertical assets, pumps, motors, valves, buildings, fire hydrants, well production meters, and electrical components are documented in MC. Each asset has a unique asset identification number and location. MC went online June 1, 2015, and replaced the antiquated Antero CMMS. Asset locations are documented in the District's ARC GIS database. The customer service meter inventory is maintained in EAWSD's billing system, Harris In-Hance.

All assets are assigned an estimated asset value based on asset type and asset size. A complete vertical asset registry is included in Appendix A.

## 2.2 Vertical Asset Condition

To prevent critical assets from failing, EAWSD performs periodic condition assessments on vertical assets. The last condition assessment was completed in 2011 on 291 assets. The next condition assessment is anticipated to be completed in first quarter 2016 to cover all vertical assets. Knowing the condition of assets helps avert future failures and provides data for repair, replacement, and CIP decisions.

The condition of an asset is determined by non-intrusive testing methods, as well as visual inspection. The quantitative methods used by EAWSD include the following:

- Thermography
- Vibration analysis
- Ultrasonic detection
- Insulation resistance
- Voltage and amperage balance
- Ultrasonic thickness (outside contractor)

The condition of an asset is given a score from 1 to 5, with 1 being the ideal condition. The rating scale is based on the *International Infrastructure Management Manual* used for the past 20 years in Australia and New Zealand. The rating scale is shown in Table 2.

To determine a vertical asset's condition, a series of questions with multiple-choice answers is used. The questions and answers are specific to each asset class or type. Currently, EAWSD has 27 vertical asset types (see Table 3).

Each asset type has its own specific list of questions and associated answers used to determine the condition. An example question and answer set is shown in Table 4. The complete set of questions for all asset types is attached in Appendix B.

To perform the condition assessment, all asset condition criteria sheets and assets are loaded into the ACES web application designed by CH2M. ACES is a tool that enables real-time data capture and storage of the condition and risk data associated with vertical assets. The condition assessment team uses ACES in the field to collect data on the asset's condition. Once entered, the data are immediately stored electronically.

**Table 2. Condition Rating Scale**

Category	Score Range	Definition
Category 1	1 to 1.49	Indicates the asset is in like new condition. Continuation of the current maintenance and operating procedures is indicated.
Category 2	1.5 to 2.49	Indicates asset is in good condition. Some minor additional maintenance may be required along with the current maintenance and operating procedures.
Category 3	2.5 to 3.49	Indicates the asset is in fair condition. These assets have one or more issues which require immediate attention. It is also possible that the current maintenance and operating procedures or intervals may need to be modified or adjusted to avoid a reoccurrence of the identified issues.
Category 4	3.5 to 4.49	Indicates the asset is in poor condition. Planning for a major overhaul or replacement should begin. Review of current maintenance practices and procedures is needed. If this is a critical asset a predictive maintenance program should be evaluated to prevent the asset from reaching this condition in the future.
Category 5	4.5 to 5	Indicates the asset is in very poor condition. Failure of the asset to provide the desired level of service is likely. Greater than 50% of assets will require replacement. If this is a critical asset, a comprehensive maintenance analysis is recommended to prevent the asset from reaching this condition in the future.

*Source: Association of Local Government Engineering New Zealand, Inc. and the Institute of Public Works Engineering of Australia. 2006. International Infrastructure Management Manual. Version 3.0.*

**Table 3. Vertical Asset Types Update**

Asset Types	
Air Conditioning Unit	Pump Centrifuge
Air Release Valve	Pump Metering
Building	Pump Vertical
Cathodic Protection	Radio
Control Panel	Site
Disconnect Switch	Submersible Pump
Fan	Tank
Fire Hydrant	Telemetry Panel
Flow Meter	Transformer
Generator	Uninterruptible Power SupplyValve
Instrument	Variable Frequency DriveWell
Motor	
Motor Control Center	
Pressure Release Valve	

Table 4. Motor Control Center Question/Answer Sheet

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1		1	yes
			5	no
Connections Ok	1		1	yes
			5	no
Correct Components	1		1	yes
			5	no
Corrosion - Structural Metal Condition?	1		1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Good House Keeping	1		1	yes
			5	no
Infrared	3		1	Negligible Ambient
			2	Normal
			3	Moderate
			4	Major
			5	Significant
Installation/ Accessibility	1		1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Internal Condition	1		1	Negligible
			2	Minor
			3	Moderate
			4	Major
			5	Excessive
Structural Integrity	2		1	Excellent
			2	Minor wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent

The results of the vertical asset assessment conducted in 2011 are shown on Figure 2. Overall, 77 percent of the assets were in condition state 1 or 2 (new to average condition).

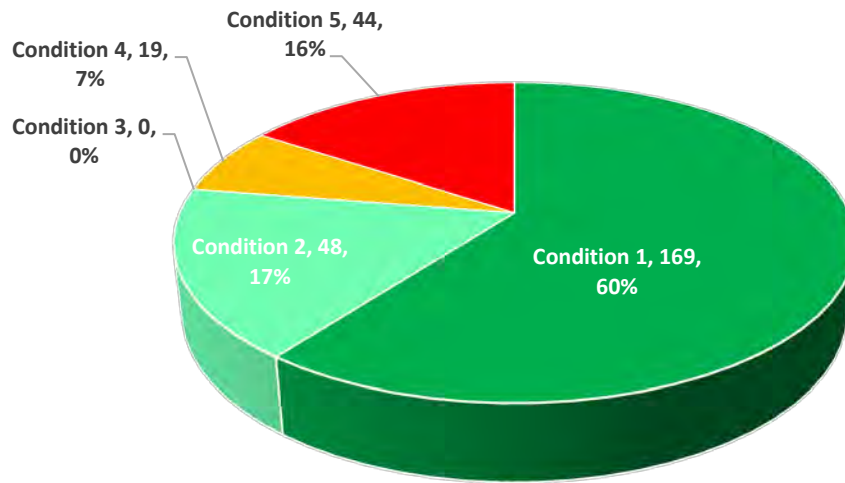


Figure 2. Eldorado Area Water and Sanitation District Vertical Asset Condition (2011)

## 2.3 Vertical Asset Remaining Life

The asset condition ranking format allows for a systematic approach to estimating remaining asset useful life. If an asset receives a score of 1, the asset is in very good condition and has 95 percent of its original useful life remaining regardless of installation date. An asset that receives a score of 2 has approximately 75 percent of its original useful life remaining. Some triggers for deviating from this type of remaining life estimation are age and maintenance practices. If an asset receives a score of 1 and has been in service for 20 years, a manual adjustment must be made as the asset will most likely not have 95 percent of its original useful life remaining. Also, if an asset is in very good condition but maintenance support is not evident, a manual adjustment must be made. The remaining life percentages, based on condition, are shown in Table 5. The estimated life by asset type is shown in Table 6.

Table 5. Remaining Life Percentages

Condition Rating	Remaining Life (Percentage of Service Life)
1	95
2	75
3	50
4	30
5	5

Source: Association of Local Government Engineering New Zealand, Inc. and the Institute of Public Works Engineering of Australia. 2006. *International Infrastructure Management Manual. Version 3.0.*

**Table 6. Asset Type Typical Estimated Life Values**

<b>Asset Types</b>	<b>Estimated Typical Life Cycle (years)</b>
Air Conditioning Unit	10
Air Release Valve	10
Building	50
Cathodic Protection	20
Control Panel	20
Disconnect Switch	20
Fan	10
Fire Hydrant	50
Flow Meter	10
Generator	30
Instrument	5
Motor Control Center	30
Motor	20
Pressure Release Valve	50
Pump Centrifuge	20
Pump Metering	5
Pump Vertical	20
Radio	10
Site	50
Submersible Pump	7
Tank	30
Transformer	50
Telemetry Panel	10
Uninterruptible Power Supply	5
Valve	50
Variable Frequency Drive	10
Well	30

# Linear Assets

Linear assets are also documented in the ARC GIS database with location coordinates. Fire hydrants, well production meters, and in-ground valves are included in the MC database. This allows maintenance on these assets to be captured. As of December 2015, the GIS database is 90 percent complete with field verification data points on some assets still needed.

The linear assets' condition will be established on service life curves for each pipe material once the installation dates of these pipes are identified. Condition curves are used to plan and prioritize potential renewal projects. Condition curves can be used to predict the remaining asset life of a pipe and, thus to plan for the overall timing of renewal activities. Condition curves can also be used to rate or score pipeline condition to assist in quantifying the probability of failure. This information, when combined with other considerations such as water main breaks, can be used to prioritize renewal activities for more efficient expenditure of a utility's annual capital improvement budget.

The general service life for linear assets indicated in the *Eldorado Area Water and Sanitation District Utility Master Plan Preliminary Engineering Report (2013)* is provided in Table 7. A pipe service life chart recommended for EAWSD use is provided in Table 8. These service lives were compiled from the American Water Works Association (AWWA) report *Buried No Longer (2012)*. A straight-line decay rate is used when estimating remaining service life. The actual install date of the pipe is plotted on a straight-line curve that represents the service life of that pipe material to determine condition. Reviewing water main breaks in the area is also used to determine the estimated decay rate. When a segment or area is reaching the rehabilitation zone, an actual condition assessment study may be required to more accurately define the condition of the pipe segment or pipes in the area.

As with vertical assets, linear assets receive a 1 to 5 condition rating based on the assets position on the curve. The condition based on age chart is shown on Figure 3.

EAWSD's GIS system contains the pipe and valve inventories shown in Table 9. However, there are currently no associated installation dates for the pipes and valves. These critical data are planned for compilation in 2016.

## 3.1 Linear Asset Remaining Life

The asset condition of linear assets is determined by material construction and age. As the installation date data are compiled, the remaining life of linear assets can be approximated. An example of how the pipes will be assessed based on the various curves is shown on Figure 4.

Table 7. General Service Life for Linear Assets

Pressure Pipe Material	General-Moderate Temperature Regions (Years)
Ductile Iron (DI)	100
Polyvinyl Chloride (PVC)	100
Asbestos-Cement (AC)	70

Source: Souder Miller & Associates. 2013. Eldorado Area Water and Sanitation District Utility Master Plan Preliminary Engineering Report, Santa Fe, New Mexico. July.

Source: DI-ACCIPO, PVC-JM Eagle, The Chrysolite Institute for AC Pipe

Table 8. Pipe Service Lives

Derived Current Service Lives (Years)	CI	CICL (LSL)	CICL (SSL)	DI (LSL)	DI (SSL)	AC (LSL)	AC (SSL)	PVC	Steel	Conc & PCCP
Northeast Large	130	120	100	110	50	80	80	100	100	100
Midwest Large	125	120	85	110	50	100	85	55	80	105
South Large	110	100	100	105	55	100	80	55	70	105
West Large	115	100	75	110	60	105	75	70	95	75
Northeast Medium & Small	115	120	100	110	55	100	85	100	100	100
Midwest Medium & Small	125	120	85	110	50	70	70	55	80	105
South Medium & Small	105	100	100	105	55	100	80	55	70	105
West Medium & Small	105	100	75	110	60	105	75	70	95	75
Northeast Very Small	115	120	100	120	60	100	85	100	100	100
Midwest Very Small	135	120	85	110	60	80	75	55	80	105
South Very Small	130	110	100	105	55	100	80	55	70	105
West Very Small	130	100	75	110	60	105	65	70	95	75

Source: American Water Works Association. 2012. Buried No Longer: Confronting America's Water Infrastructure Challenge.

Notes:

Highlighted cells pertain to Eldorado Area Water and Sanitation District

AC = asbestos cement

CI = cast iron

CICL = cast iron cement lined

DI = ductile iron

LSL = indicates a relatively long service life for the material resulting from some combination of benign ground conditions and evolved laying practices etc.

PCCP = prestressed concrete cylinder pipe

PVC = polyvinyl chloride

SSL = indicates a relatively short service life for the material resulting from some combination of harsh ground conditions and early laying practices, etc.

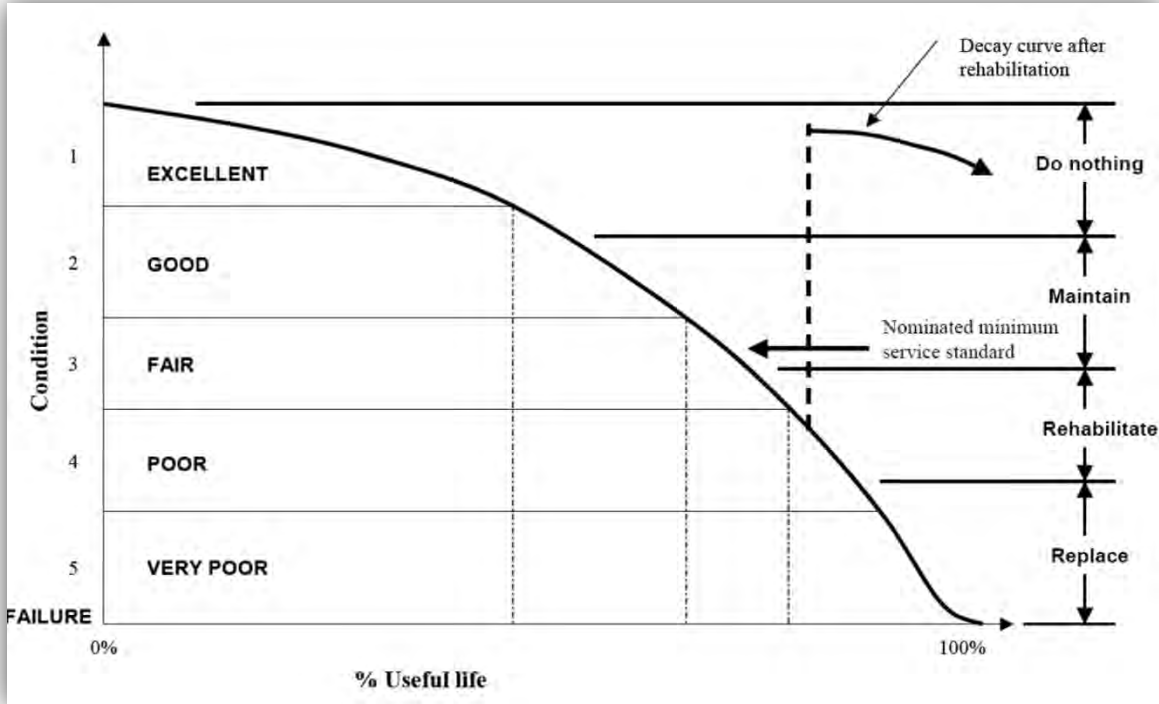


Figure 3. Condition from Pipe Age

Table 9. Pipe, Water Meter, Valve, and Hydrant Inventory

Pipes			Water Meters		Valves		Hydrants
Pipe Type	Diameter (inches)	Length (feet)	Year Installed	Count	Size (inches)	Count	Count
Asbestos Cement	4	4,293	2010	1,861	3	1	613
	6	24,909	2011	192	6	17	
	8	13,182	2012	214	8	10	
Polyvinyl Chloride	2	4,870	2013	261	Unknown	1,243	
	3	369	2014	35			
	4	5,757	2015	318			
	6	290,997	Unknown	77			
	8	238,916	<b>Total</b>	2,882			
	10	21,985					
Ductile Iron	6	181					
	8	19,013					
	Unknown	237					
Unknown	Unknown	7,215					

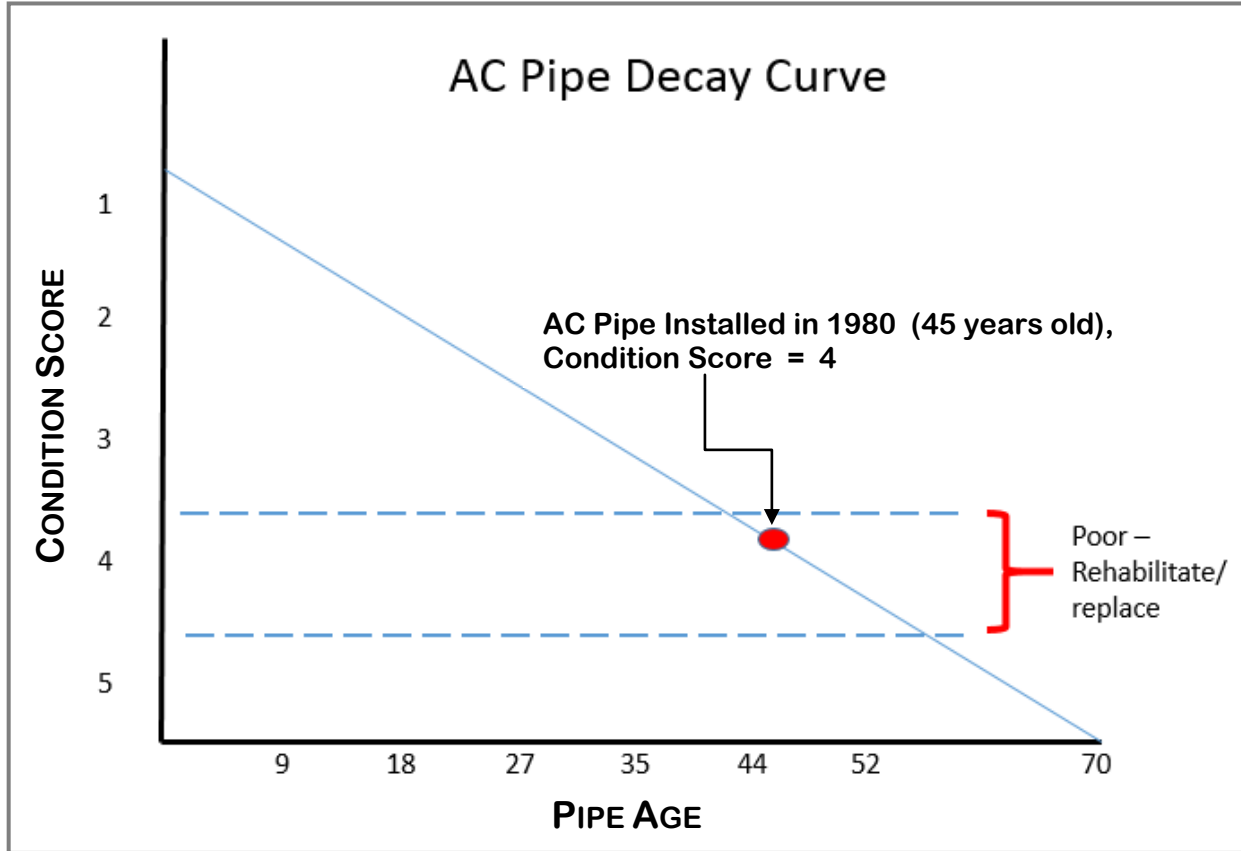


Figure 4. Example Plot of AC Pipe Decay Curve for 45-Year-Old Pipe

# Risk

Risk can be defined as:

*The potential for realization of unwanted, adverse consequences to organizational and service delivery strategies.*

Applying the concept of “relative risk ranking” allows for fact-based and defensible decision making for the maintenance, rehabilitation, and replacement of infrastructure assets. Using a relative risk ranking concept is the water industry standard for managing infrastructure assets effectively. With these condition assessment results, EAWSD can prioritize capital projects and maintenance actions based upon the extent that the actions/investments can reduce the relative risk posed by failure of individual assets. This will help to optimize the use of financial resources to mitigate the potential risk.

In the context of utility asset management, the focus is on the risk of asset failure, where failure is not only the physical breakdown of an asset, but the inability of an asset to meet its designed function. The risk that an asset failure will result in EAWSD not meeting its established levels of service can be quantified as a function of the consequence of the asset failure, and the likelihood the asset will fail, as shown by the classic risk equation shown below.

$$\text{Risk} = \text{Consequence of Failure} \times \text{Likelihood of Failure}$$

The scoring system used to quantify the consequence of failure and the likelihood of failure for EAWSD infrastructure assets is discussed below. The basis for the scoring system can be found in the following sources:

- *International Infrastructure Management Manual* (Association of Local Government Engineering New Zealand, Inc. and the Institute of Public Works Engineering of Australia, 2011)
- *Implementing Asset Management – A Practical Guide* (National Association of Clean Water Agencies, Association of Metropolitan Water Agencies and Water Environment Federation, 2007)

The physical condition component was incorporated into the likelihood of failure part of the scoring system after completing the onsite condition assessments in 2011. The relative risk posed by an asset failure was then calculated using the classic risk equation. The risk ranking and risk scores for the assessed assets in 2011 are included in Appendix C.

## 4.1 Levels of Service

A workshop was held with EAWSD in 2011 to determine the levels of service for the utility. The asset risk profile was re-evaluated in January 2016. Once the levels of service were established, the risk consequence and likelihood of asset failure were evaluated and scored. Levels of service established include regulatory compliance, public health impacts, and asset performance. Once the desired levels of service were determined, they were weighted on importance and used to determine the overall asset risk (consequence of failure). In order to maintain consistency during this and future assessments, the levels of service were quantified in two matrices that score the consequence and likelihood of failure.

## 4.2 Consequence Matrix

The risk posed by an asset failing is determined by quantifying the consequences that may result from a failure and the likelihood of the failure occurring. The consequence of failure matrix is presented in

Table 10 and lists the level of service categories and the range of consequences (negligible to severe) with scores (1 to 10).

Table 10. Eldorado Area Water and Sanitation District Consequence Matrix (2011)

LOS Category	Wt.	Negligible = 1	Low = 4	Moderate = 7	Severe = 10
Safety of public and employees	25%	No injuries or adverse health effects	No lost-time injuries or medical attention required	Lost-time injury or medical attention required	Loss of life or widespread outbreak of illness
System Restoration	25%	No system interruption	Minor impact	Major impact	Catastrophic impact to meet demand
Regulatory Compliance	20%	No State permit violations	Possible technical violation	Probable enforcement action	Permit or license suspension or state control of system
Expense	10%	Can be repaired within repair budget (<2000)	Can be repaired between \$2000 and \$9,999 (Small purchase)	Can be repaired between \$10,000 to \$20,000. (Informal purchase)	Greater than \$20,000. (Formal bid or emergency purchase)
Financial Impact	10%	No loss of revenue or consequential damages	No loss of revenue and consequential damage covered by insurance	Loss of revenue less than 3%, or consequential damage without insurance coverage up to \$50,000	Revenue loss greater than 3% consequential damages greater than \$50,000
Public confidence and perception	10%	No social or economic impact on the community	Minor disruption (e.g., traffic, dust, noise). No adverse media coverage. Some complaints.	Substantial but short-term disruption. Adverse media coverage due to public impact.	Long-term impact. Area-wide disruption. Regional media coverage.
	100%				

Notes:

LOS = level(s) of service

Wt. = weight

### 4.3 Likelihood Matrix

A similar matrix was developed to score the likelihood of an asset failing and is presented in Table 11. Each likelihood category was assigned a weighted value based on its contribution to the likelihood of an asset failing to meet its intended purpose over a range of likelihood (negligible to very likely) with scores (1 to 10).

Table 11. Eldorado Area Water and Sanitation District Likelihood Matrix (2011)

Likelihood Category	Wt.	Negligible = 1	Unlikely = 3	Possible = 5	Likely = 7	Very Likely = 10
Physical Condition	40%	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	Good. Condition Grade 2. Minor wear.	Fair. Condition Grade 3. Major wear impacting level of service.	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.
Performance	25%	Sufficient capacity to meet assigned performance and peak flow requirements.	Under-utilized or oversized, causing O&M issues.	Sufficient capacity, but does not meet functional requirements, or over-utilized.	Able to meet assigned performance, but not peak demands.	Unable to meet assigned performance.
Reliability	20%	No corrective work order events within 12 months		<= 4 corrective work order events within 12 months		>4 corrective work order events within 12 months
O and M protocols	10%	Complete, up-to-date, written, easily accessible and is being used.	Complete, written, up-to-date, being used but not easily accessible.	Partially developed	Written, but out-date and not used.	No written protocols.
Redundancy	5%	Have redundancy		Don't need redundancy		Must have redundancy
	100%					

Notes:

Wt. = weight

Once the consequence matrix and likelihood matrix tables were agreed upon, they were applied to the assets, asking the question, “what happens when the asset fails?” This established the consequence of any asset failing. Note that the consequence score of an asset failing is also that asset’s criticality score.

Once consequence was assigned to each asset, a field condition assessment was completed in 2011 to determine the condition of assets, operation and maintenance protocols in place, and performance. Once this was complete, an asset risk profile was generated. The asset risk results from the 2011 assessment is shown on Figure 5.

The risk process provides an advantage in identifying high-risk locations by averaging the risk of all assets at any given location. The location risk results from the 2011 assessment are shown on Figure 6.

The risk analysis for linear assets has not been completed as of January 2016. Once the installation dates of waterlines are captured and uploaded into GIS, however, a risk workshop will be conducted to assign risk to pressure zones and line segments.

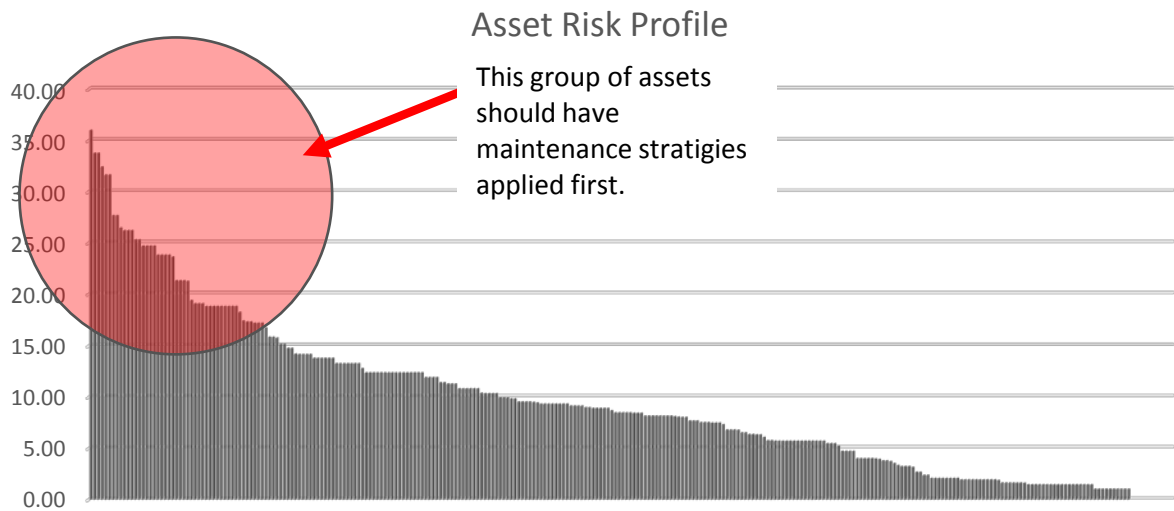


Figure 5. Asset Risk Profile (2011)

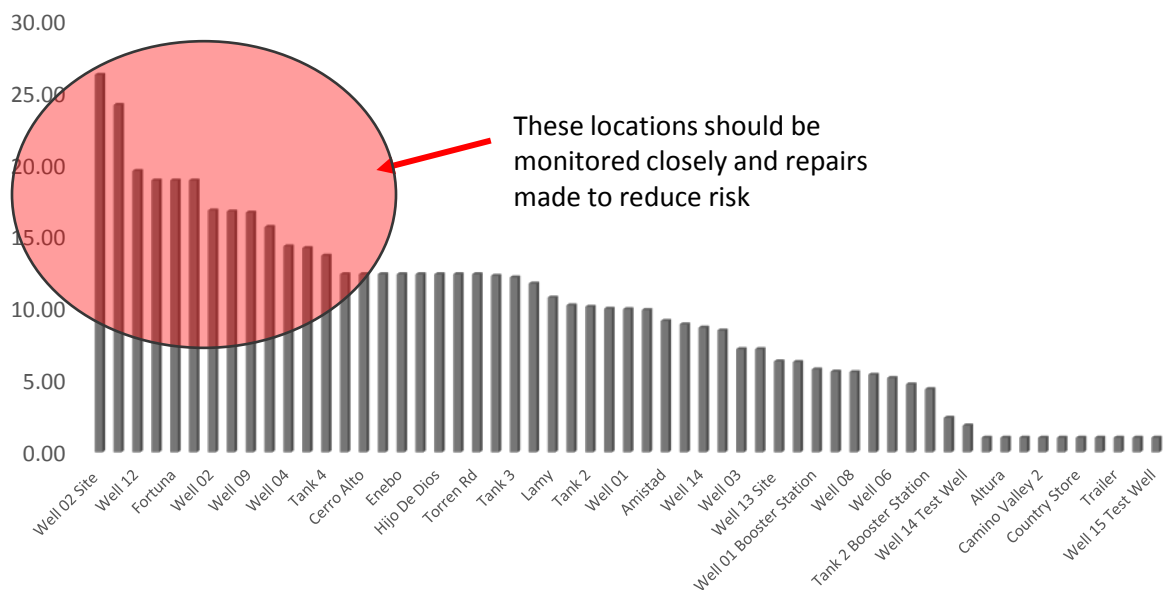


Figure 6. Risk Score by Location

## 4.4 Risk Objectives

The objective of measuring risk is to ensure EAWSD is operating at the lowest risk economically feasible. This is primarily achieved by lowering the likelihood component of the risk equation. Mitigation steps for this include asset repair and replacement, ensuring that the best maintenance strategies are applied to the critical (high consequence) assets. Note that reducing consequences associated with an asset failure typically requires a change in operating strategy or infrastructure changes and is not easily accomplished.

# Asset Replacement Modeling

CH2M developed an asset replacement modeling tool for conducting capital replacement prioritization and planning, and for determining an overall asset replacement schedule (see Figure 7).

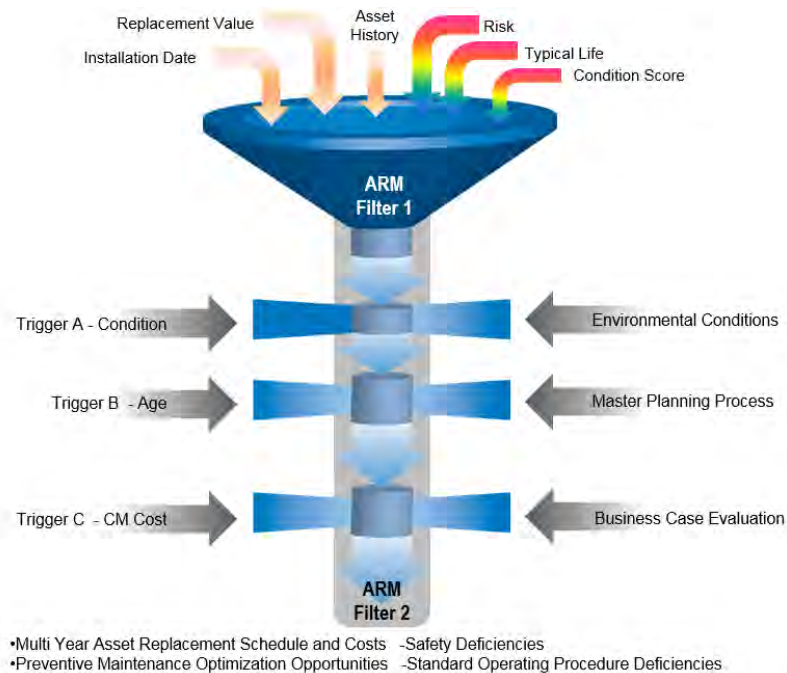


Figure 7. Asset Replacement Model

Features and benefits of this tool include the following:

- Uses three triggers based on an asset's condition, annual maintenance costs, and remaining useful life. In addition, impact of failure is incorporated to create a risk multiplier
- Contains the estimated replacement value of each asset so a preliminary budget can be developed for the initial replacement schedule
- Uses existing data in MC as the first step
- Incorporates institutional knowledge
- Conducts phased modeling based on risk, budget, and resources available
- Uses the model triggering function to automatically highlight troubled assets
- Identifies candidate assets for further analysis, such as in a business case evaluation to determine action on high risk or expensive asset replacements
- Highlights preventative maintenance/predictive maintenance optimization opportunities
- Identifies potential data integrity issues in MC, potential inefficient or improper maintenance activities, and other areas of potential improvement in MC.

## 5.1 Asset Replacement Triggers

The predefined trigger points for vertical assets are as follows:

- Condition of asset – If an asset receives a condition score of 3 or higher, the asset triggers.
- Age of asset – If an asset reaches 95 percent of its estimated useful life, it will get a trigger score of 10.
- Maintenance cost – If an asset reaches 4.5 percent of annualized maintenance cost as compared to replacement cost, it triggers.

The asset replacement triggers with percentages and ranges are shown on Figure 8.

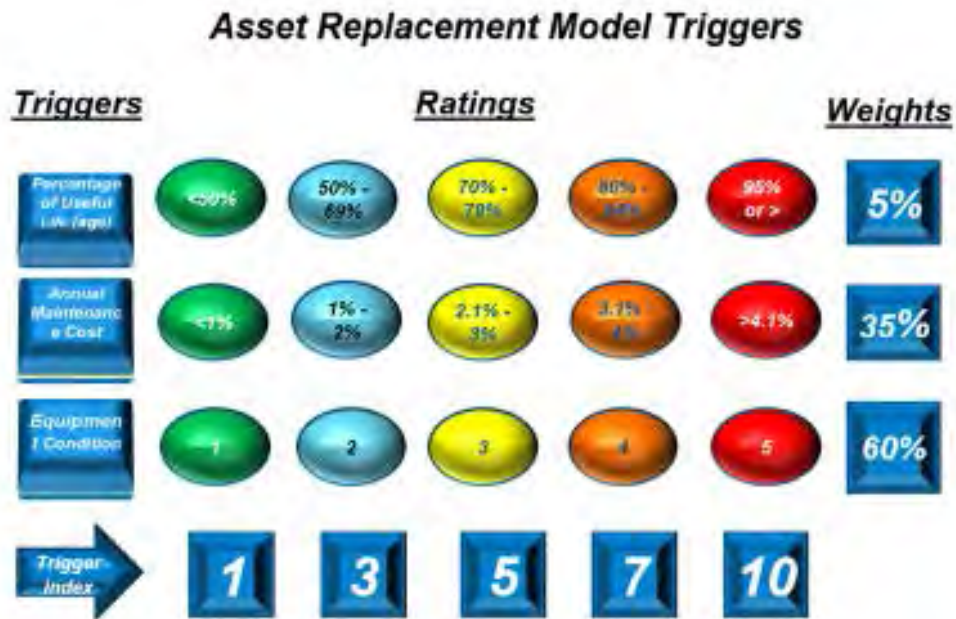


Figure 8. Asset Replacement Model Triggers

After a condition assessment round is completed, the asset replacement model (ARM) is run in ACES. Assets may trigger based on their current status. The assets that trigger are candidates for further investigation to determine the need for repair or replacement or whether no action is required due to other factors. The investigation involves the following:

- Reviewing existing data for accuracy
- Reviewing a high maintenance cost to see if that asset was rebuilt/refurbished in the past and not captured in condition assessment
- Reviewing the consequence of failure score for accuracy

Figure 9 shows the ARM process and Figure 10 shows the condition assessment program and how it relates to the ARM process.

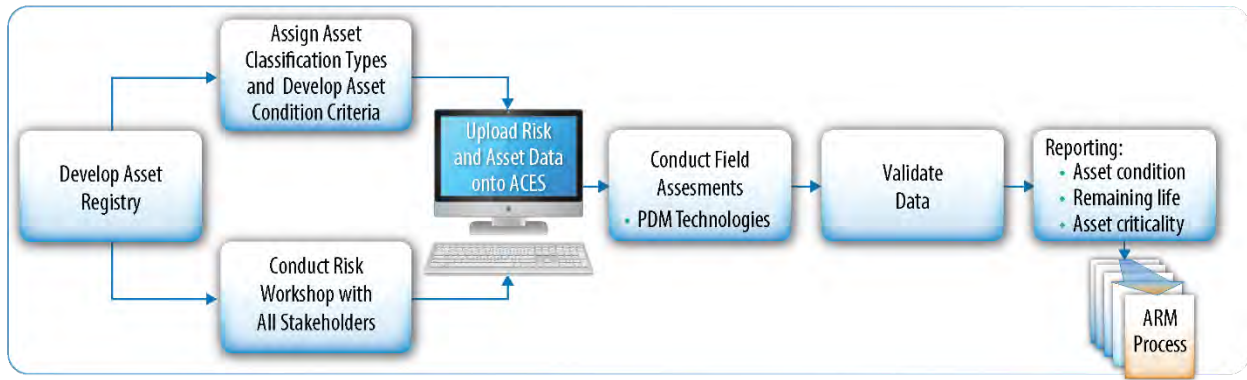


Figure 9. Asset Replacement Model Process

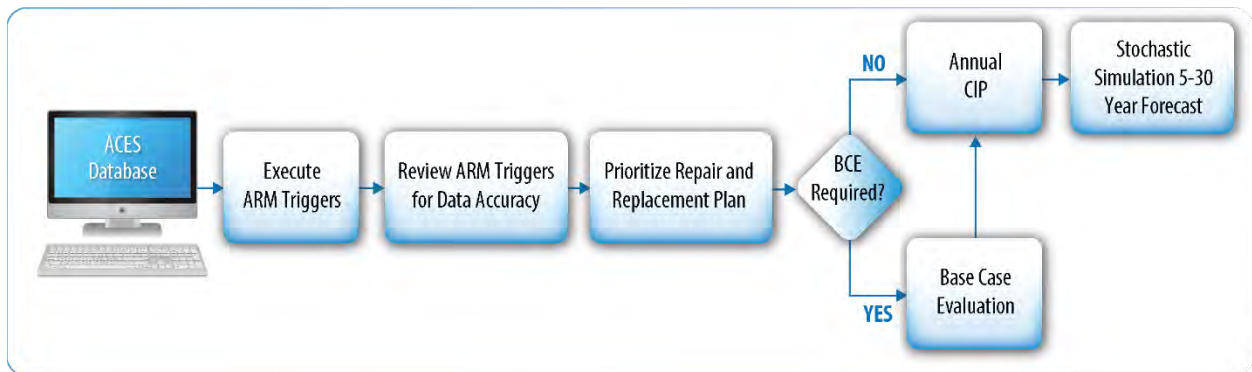


Figure 10. Condition Assessment Process

# Funding Strategy

## 6.1 Funding Requirements Determination

EAWSO financial planning for fixed assets takes place primarily during an annual process to review existing infrastructure and to update the District's Infrastructure Capital Improvements Plan (ICIP). The information resulting from this review and planning process is then used as input to EAWSO's annual budget development process.

The annual infrastructure review, conducted each year in February, has two primary objectives. The first is to identify any changes in fixed assets over the preceding year that had a significant impact on asset condition. The second is to determine the effect of changes and additions to infrastructure on projected operational costs.

Changes in fixed assets and corresponding financial implications are weighed against EAWSO's 5-year ICIP. If remediation or replacement is not already in the ICIP, information is gathered so a project can be added to the plan. If a project to address the problem is already in the ICIP, cost projections are updated, if necessary, and a preliminary assessment is made of how the changes affect the prioritization of existing planned projects.

Unanticipated degradation or loss of minor assets may require adjustment to the current budget. Occasionally, a group of related assets may be replaced or rehabilitated on a preventative basis, which requires either budget adjustment or planning for inclusion in a later budget cycle. Unanticipated degradation or loss of a major asset may profoundly impact EAWSO's budget. Funding for such an emergency may draw from EAWSO's emergency reserves or require a loan for asset repair or replacement.

As fixed assets age, and when they are replaced, the effect on operational expense is projected. To date, these effects have been minimal. EAWSO capital projects are implemented to take advantage of ongoing improvements in equipment reliability, automation, and remote monitoring and control to offset some of the increases in operational expense due to increases in total assets. Frequently, there is a decrease in operational expense when a new asset replaces an older, existing asset.

## 6.2 Planning and implementation of Funding Strategy

EAWSO funds asset maintenance and replacement from a combination of water sales revenues, income from fees (enumerated in the EAWSO New Water Service Policy), and property tax receipts net of those required for debt service, as well as from grants and loans. Planning for funding EAWSO's CIP is a fundamental part of its annual budget development cycle.

In May 2015, EAWSO's board of directors approved an increase of 1 mill in its property tax mill levy. The additional funds will be used in part for the following:

- To fund CIP (increasing the fiscal year 2015 (FY15) amount of \$70,000 by approximately \$130,000 per year, of which \$50,000 per year is for planned asset repairs and rehabilitation)
- To establish and maintain an emergency reserve for repair and rehabilitation of its capital assets (\$50,000 per year, with a goal of maintaining an emergency reserve of \$500,000)

In 2014 – 2015, EAWSD conducted a rate study, which resulted in a 4-year program of annual rate increases that was approved by the board of directors in December 2015 and becomes effective in January 2016. The new rates are designed to increase water sales revenues so that approximately:

- \$50,000 per year is available for the annual meter replacement program (meters and appurtenances)
- \$27,000 per year is available for small capital projects or small capital expenditures (for example, vehicles)
- \$38,000 per year is available for engineering, utility planning, and program development
- \$25,000 per year is available to establish a reserve for water line replacement

In addition to direct funding for capital projects and routine asset repairs and rehabilitation, the new rates are designed to provide revenue for new debt service. The revenue requirements for CIP included in the rate study are for debt service of up to \$1 million borrowed in FY2016, \$1 million to be borrowed in FY2017, and \$1.5 million to be borrowed in FY2018 and FY2019. A pending loan to EAWSD for \$909,000 from the New Mexico Drinking Water State Revolving Loan Fund (DWSRLF) for District Well 19 constitutes the new debt service planned for FY2016.

In addition to increasing its revenue and property tax receipts, primarily to increase the amounts to be directly committed to CIP and debt service on loans for CIP paid from water sales revenues, EAWSD will continue to request new grants to help pay for its CIP. The total projected revenue and property tax receipts available for CIP in FY2017 is \$277,000. Combined with the new DWSRLF loan, the total available for FY2017 is \$1,177,000. Cost estimates for projects identified in the ICIP, which ideally should be started in FY2017, total \$4,730,200. New grants are the only means EAWSD has to make up some of the difference between what it needs for CIP and what it can reasonably charge its tax and rate payers.

# Works Cited

American Water Works Association. 2012. *Buried No Longer: Confronting America's Water Infrastructure Challenge*.

Association of Local Government Engineering New Zealand, Inc. and the Institute of Public Works Engineering of Australia. 2006. *International Infrastructure Management Manual*. Version 3.0.

Association of Local Government Engineering New Zealand, Inc. and the Institute of Public Works Engineering of Australia. 2011. *International Infrastructure Management Manual*.

Glorieta Geoscience, Inc. 2007. *Long-term Water Availability and Well Field Management Study Report*. July.

Souder Miller & Associates. 2013. *Eldorado Area Water and Sanitation District Utility Master Plan Preliminary Engineering Report, Santa Fe, New Mexico*. July.

National Association of Clean Water Agencies, Association of Metropolitan Water Agencies and Water Environment Federation. 2007. *Implementing Asset Management – A Practical Guide*.

Appendix A  
Questions for all Asset Types

Asset Type

**AC UNIT**

Question	Condition Weight	Overriding?	Answer	
Acceptable Noise	1.00			
			1	yes
			5	no
Accessibility	1.00			
			1	Open, Easy Access
			2	Semi Restricted Access
			3	Restricted Access
			4	Very Difficult to Access
			5	Extremely Difficult to Access
Air Filter	1.00			
			1	Excellent
			3	Partially Clogged
			5	Inadequate, Failure Imminent
All Components	1.00			
			1	yes
			5	no
Controls	1.00			
			1	Excellent
			3	Minor Problems
			5	Failure Imminent
Corrosion	1.00			
			1	Negligible
			2	Minor
			3	Moderate
			4	Major
			5	Excessive
Fan and Fan Motor	1.00			
			1	Excellent
			3	Maintenance Required
			5	Inadequate, Failure Imminent
Operational?	5.00			
			1	Yes
			5	No

Asset Type

**CATHODIC**

Question	Condition Weight	Overriding?	Answer	
All Components	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Control Gauges (Hour Meters Volts & Amps)	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Failure Eminent
			5	Failure
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Operating at Inspection	3.00			
			1	yes
			5	no

Asset Type

**CONTROL PANEL**

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
Acceptable Noise	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Appearance (Carbon Dust)	1.00			
			1	Excellent
			2	Minor
			3	Moderate
			4	Major
			5	Excessive
Control Gauges (Hour Meters Volts & Amps)	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Failure Eminent
			5	Failure
Control Switches	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Failure Eminent
			5	Failure
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Good House Keeping	1.00			
			1	yes
			5	no
Good Wire Labeling	1.00			
			1	yes

Question	Condition Weight	Overriding?	Answer	
			5	no
Infrared	1.00			
			1	Negligible Ambient
			2	Normal
			3	Moderate
			4	Major
			5	Significant
Installation	1.00			
			1	Excellent
			2	Normal
			3	Minor Problems
			4	Moderate Obstruction
			5	Severe Obstruction
Operating at Inspection	1.00			
			1	yes
			5	no
Proper Drawings Accessible	1.00			
			1	yes
			5	no
Structural (Panel)	1.00			
			1	Excellent
			2	Minor Wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent

Asset Type

**DISCONNECT**

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Control Switches	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Faluire Eminent
			5	Failure
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Mounting	1.00			
			1	Excellent
			3	Operational
			5	Failure
Structural Integrity	2.00			
			1	Excellent
			2	Minor wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent

Asset Type

**FAN**

Question	Condition Weight	Overriding?	Answer	
Acceptable Noise	1.00			
			1	yes
			5	no
Acceptable Oil/Grease	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
Acceptable Vibration	2.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
All Safety Guards Present	1.00			
			1	yes
			5	no
Belt	1.00			
			1	Excellent
			2	Minor Wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent
Controls	1.00			
			1	Excellent
			3	Minor Problems
			5	Failure Imminent
Corrosion - Structural Metal Condition?	2.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Duct Work	1.00			
			1	Excellent
			3	Minor Problems
			5	Failure Imminent
Fan and Fan Motor	1.00			
			1	Excellent
			3	Maintenance Required
			5	Inadequate, Failure Imminent
Installation/ Accessibility	1.00			
			1	Excellent

Question	Condition Weight	Overriding?	Answer	
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Structural Integrity	1.00			
			1	Excellent
			2	Minor wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent
Support	1.00			
			1	Excellent
			2	Minor
			3	Moderate
			4	Major
			5	Inadequate, Failure Imminent

Asset Type

**FLOW METER**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
Calibration	1.00			
			1	Excellent
			2	Occasionally Found Out of Calibration
			3	Minor signal Fluctuations
			4	Frequent signal Fluctuations
			5	Unable to Calibrate or not Calibrated
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Grounding	2.00			
			1	yes
			5	no
Installation/ Accessibility	2.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure

Asset Type

**GENERATOR**

Question	Condition Weight	Overriding?	Answer	
Acceptable Noise	1.00			
			1	yes
			5	no
Acceptable Oil/Grease	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
Acceptable Vibration	1.00			
			1	yes
			5	no
Air Filter	1.00			
			1	Excellent
			3	Partially Clogged
			5	Inadequate, Failure Imminent
All Components	1.00			
			1	yes
			5	no
All Safety Guards Present	1.00			
			1	yes
			5	no
Automatic Transfer Switch	1.00			
			1	Excellent
			3	Minor Problems
			4	Major Problems
			5	Failure
Battery/ Charging System	1.00			
			1	Excellent
			2	Minor
			3	Moderate
			4	Major
			5	Inadequate
Control Gauges (Hour Meters Volts & Amps)	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Failure Eminent
			5	Failure
Control Switches	1.00			
			1	Excellent
			2	Good
			3	Operational
			4	Failure Eminent

Question	Condition Weight	Overriding?	Answer	
			5	Failure
Cooling System	1.00			
			1	Proper Coolant Additives No Corrosion
			3	Moderate Internal Corrosion
			5	Heavy Internal Corrosion
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Exhaust System	1.00			
			1	Excellent
			3	Spot Rust Minor Leaks
			5	Failure Imminent
Heater Jacket	1.00			
			1	Excellent
			3	Moderate
			5	Inadequate
Hoses and Belts	1.00			
			1	Excellent
			3	Moderate
			5	Inadequate, Failure Imminent
Monitoring Panel	1.00			
			1	Excellent
			3	Moderate
			5	Inadequate
Oil OK at Inspection	1.00			
			1	yes
			5	no
Oil Pressure	1.00			
			1	Good
			3	Below Recommended Level
			5	Failure Imminent
Running at Inspection	1.00			
			1	yes
			5	no
Starting System	1.00			
			1	Proper Operation
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure

Asset Type

**INSTRUMENT**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
Acceptable Wire Labeling	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
Calibration	1.00			
			1	Excellent
			2	Occasionally Found Out of Calibration
			3	Minor signal Fluctuations
			4	Frequent signal Fluctuations
			5	Unable to Calibrate or not Calibrated
Connections Ok	3.00			
			1	yes
			5	no
Display Ok	1.00			
			1	yes
			5	no
Indicator	1.00			
			1	Excellent
			2	Good
			3	Minor problems
			4	Inaccurate
			5	Failure
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Operating at Inspection	3.00			
			1	yes
			5	no
Tubing / Connections	3.00			
			1	Excellent
			2	Normal
			3	Moderate Wear
			4	Collapsing / Leaking

Question	Condition Weight	Overriding?	Answer	
			5	Obstructed / Loose

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
Connections Ok	1.00			
			1	yes
			5	no
Correct Components	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Good House Keeping	1.00			
			1	yes
			5	no
Infrared	3.00			
			1	Negligible Ambient
			2	Normal
			3	Moderate
			4	Major
			5	Significant
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Internal Condition	1.00			
			1	Negligible
			2	Minor
			3	Moderate
			4	Major
			5	Excessive
Structural Integrity	2.00			
			1	Excellent
			2	Minor wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent

Asset Type

**MOTOR**

Question	Condition Weight	Overriding?	Answer	
Acceptable Noise	1.00			
			1	yes
			5	no
Acceptable Smell or Heat	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
All Safety Guards Present	1.00			
			1	yes
			5	no
Bearings	1.00			
			1	Excellent
			2	Minor Wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Drive Shaft Alignment	1.00			
			1	Excellent
			2	Minor Misalignment
			3	Moderate Misalignment
			4	Major Misalignment
			5	Failure Imminent
Insulation Resistance	1.00			
			1	Greater than 10 Meg Ohm
			3	1.5 - 10 Meg Ohm
			5	< 1.5 Meg Ohm
Oil Level within Range	1.00			
			1	yes
			5	no
Operating at Inspection	1.00			
			1	yes
			5	no
Structural Integrity	1.00			
			1	Excellent
			2	Minor wear
			3	Moderate Wear

Question	Condition Weight	Overriding?	Answer	
			4	Major Wear
			5	Failure Imminent
Vibration Analysis	1.00			
			1	1 -Smooth < .039 inches/sec
			2	2 -Good .039 - .15 inches/sec
			3	3 -Fair .15 - .31 inches/sec
			4	4 -Rough .31 - .59 inches/sec
			5	5 -Very Rough > .59 inches/sec

Asset Type

**PRV**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	2.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Failure Mode	3.00			
			1	Minor system impact
			3	Significant system impact, potential cost
			5	Major system damage, costs
Installation/ Accessibility	2.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
ISO, Bypass Valve Accessibility	2.00			
			1	Can Be accessed from grade level
			5	Confined space entry
PRV Tubing Condition	2.00			
			1	PRV control tubing, connections excellent
			3	Some degradation, servicable
			5	Tubing failed or needs replacement
Vault Cover	2.00			
			1	Vault cover is appropriate for application
			3	Vault cover is not appropriate for application
			5	Vault cover is unsafe

Asset Type

**PRV VALVE**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Failure Mode	2.00			
			1	Minor system impact
			3	Significant system impact, potential cost
			5	Major system damage, costs
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
PRV Tubing Condition	2.00			
			1	PRV control tubing, connections excellent
			3	Some degradation, servicable
			5	Tubing failed or needs replacement
Support	2.00			
			1	Excellent
			2	Minor
			3	Moderate
			4	Major
			5	Inadequate, Failure Imminent
Vault Cover	2.00			
			1	Vault cover is appropriate for application
			3	Vault cover is not appropriate for application
			5	Vault cover is unsafe

Asset Type

**PUMP CENT**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Absence of Pump Cavitations	1.00			
			1	yes
			5	no
Acceptable Noise	1.00			
			1	yes
			5	no
All Safety Guards Present	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Mounting	1.00			
			1	Excellent
			3	Operational
			5	Failure
Vibration Analysis	1.00			
			1	1 -Smooth < .039 inches/sec
			2	2 -Good .039 - .15 inches/sec
			3	3 -Fair .15 - .31 inches/sec
			4	4 -Rough .31 - .59 inches/sec
			5	5 -Very Rough > .59 inches/sec

Asset Type

**PUMP METERING**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Acceptable Noise	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Lubrication OK at Inspection	1.00			
			1	yes
			5	no
Metering Pump Controls	2.00			
			1	No control or pumping issues
			3	Occasional issues with pumping or controls
			5	Frequent issues with pumping or controls
Mounting	1.00			
			1	Excellent
			3	Operational
			5	Failure
Tubing / Connections	1.00			
			1	Excellent
			2	Normal
			3	Moderate Wear
			4	Collapsing / Leaking
			5	Obstructed / Loose

Asset Type

**RADIO**

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Battery Backup OK	1.00			
			1	yes
			5	no
Connections Ok	1.00			
			1	yes
			5	no
Grounding	1.00			
			1	yes
			5	no
Meets Current Standards?	1.00			
			1	Yes
			5	No
Operational?	3.00			
			1	Yes
			5	No

Question	Condition Weight	Overriding?	Answer	
Civil - Drainage	1.00			
			1	Normal maintenance
			2	5% needs maintenance
			3	10 to 20% needs maintenance
			4	20 to 40% needs renewal
			5	>50% requires replacement
Civil- Fences and Security	1.00			
			1	Normal maintenance
			2	5% needs maintenance
			3	10 to 20% needs maintenance
			4	20 to 40% needs renewal
			5	>50% requires replacement
Civil- Flood Protection	1.00			
			1	Normal maintenance
			2	5% needs maintenance
			3	10 to 20% needs maintenance
			4	20 to 40% needs renewal
			5	>50% requires replacement
Civil- Roads	1.00			
			1	Normal maintenance
			2	5% needs maintenance
			3	10 to 20% needs maintenance
			4	20 to 40% needs renewal
			5	>50% requires replacement
Civil- Vegetation and Landscaping	1.00			
			1	Normal maintenance
			2	5% needs maintenance
			3	10 to 20% needs maintenance
			4	20 to 40% needs renewal
			5	>50% requires replacement
Site Access	1.00			
			1	Very Good
			2	Good
			3	Average
			4	Poor
			5	Very Poor
Site Lighting Adequate	1.00			
			1	Yes
			5	No

Asset Type

**STRAINER**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	2.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	2.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Operating at Inspection	2.00			
			1	yes
			5	no

Asset Type

**SUB PUMP**

Question	Condition Weight	Overriding?	Answer	
Acceptable Vibration	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Discharge Piping Condition	1.00			
			1	Corrosion free, no known issues
			3	Minor corrosion, known minor issues
			5	Moderate corrosion, issues requiring attention
Insulation Resistance	3.00			
			1	Greater than 10 Meg Ohm
			3	1.5 - 10 Meg Ohm
			5	< 1.5 Meg Ohm
Operating at Inspection	1.00			
			1	yes
			5	no
Submersible Pump Current	1.00			
			1	At or near rated amp draw
			5	Significantly under or over rated amp draw

Asset Type

**TANK**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Adequate Overflow	1.00			
			1	yes
			5	no
External Condition	1.00			
			1	Negligible
			2	Minor
			3	Moderate
			4	Major
			5	Excessive
External Door/Hatch	1.00			
			1	Very Good
			2	Good
			3	Average
			4	Poor
			5	Very Poor
Level Monitoring Pipework	1.00			
			1	Adequate
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Unservicable
Local Level Gauge	1.00			
			1	Excellent
			3	Maintenance Required
			5	Failure
Safety (General Review)	1.00			
			1	Very Good
			2	Good
			3	Average
			4	Poor
			5	Very Poor
Security	1.00			
			1	Adequate
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	None
Vent	1.00			
			1	Adequate
			2	Minor Defects
			3	Moderate Defects

Question	Condition Weight	Overriding?	Answer	
			4	Major Defects
			5	Inadequate

Asset Type

**TANSFORMER**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
All Safety Features Present	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Operating at Inspection	2.00			
			1	yes
			5	no

Asset Type

**TELEMETRY PANEL**

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
Installation/ Accessibility	1.00			
			1	Excellent
			2	Minor Defects
			3	Moderate Defects
			4	Major Defects
			5	Failure
Operating at Inspection	2.00			
			1	yes
			5	no
Structural Integrity	2.00			
			1	Excellent
			2	Minor wear
			3	Moderate Wear
			4	Major Wear
			5	Failure Imminent

Asset Type

**UPS**

Question	Condition Weight	Overriding?	Answer	
Absence of Burn Marks	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
Monitoring Panel	1.00			
			1	Excellent
			3	Moderate
			5	Inadequate

Asset Type

**VALVE**

Question	Condition Weight	Overriding?	Answer	
Absence of Leaks	1.00			
			1	yes
			5	no
Acceptable Noise	1.00			
			1	yes
			5	no
Actuator	1.00			
			1	Excellent
			2	Minor
			3	Moderate Leaks/ Excessive Noise
			4	Major
			5	Failure Imminent
All Components	1.00			
			1	yes
			5	no
Corrosion - Structural Metal Condition?	1.00			
			1	Like new
			2	Minor corrosion
			3	Pitting and some metal loss
			4	Significant metal loss
			5	Severe pitting
Lubrication OK at Inspection	1.00			
			1	yes
			5	no
Manual Operator	1.00			
			1	Operates Smoothly
			2	Operates with extra Force
			3	Requires Tools to Operate
			4	Requires Leverage to Operate
			5	Seized, Inoperable
Packing Gland	1.00			
			1	Excellent
			2	Normal
			3	Maintenance Overdue
			4	Maintenance Required
			5	Failure Imminent
Pipe Alignment	1.00			
			1	Straight
			2	Minor Deviation
			3	Moderate Deviation
			4	Major Deviation
			5	Severe Deviation
Support	1.00			
			1	Excellent

Question	Condition Weight	Overriding?	Answer	
			2	Minor
			3	Moderate
			4	Major
			5	Inadequate, Failure Imminent
Valve Isolates (Holds)	1.00			
			1	yes
			5	no

Asset Type

**VFD**

Question	Condition Weight	Overriding?	Answer	
Acceptable Noise	1.00			
			1	yes
			5	no
All Components	1.00			
			1	yes
			5	no
Filter condition	2.00			
			1	Free flowing
			3	Partially clogged
			5	Clogged or no filter
Indicator	1.00			
			1	Excellent
			2	Good
			3	Minor problems
			4	Inaccurate
			5	Failure
Infrared	1.00			
			1	Negligible Ambient
			2	Normal
			3	Moderate
			4	Major
			5	Significant
Obsolescence	2.00			
			1	Current and supported
			3	Not current, support available
			5	Obsolete, no support
Operating at Inspection	1.00			
			1	yes
			5	no

Asset Type

**WELL**

Question	Condition Weight	Overriding?	Answer	
All Safety Features Present	1.00			
			1	yes
			5	no
Well Cap / Vent	1.00			
			1	Cap intact, vent protected and clear
			5	Issues with cap or vent
Well Casing Condition	1.00			
			1	Well casing in good / excellent condition, no issues
			3	Minor degradation, safe, servicable well
			5	Structural issues, major renovation recommended
Well Head Condition	1.00			
			1	Well head sound, meets all requirements
			3	Minor structural issues, minor compliance issues
			5	Major structural issues, major compliance issues
Well Logs	1.00			
			1	Well logs complete, current
			3	Well logs slightly out of date
			5	Well logs incomplete, out of date
Well Taste and Odor Issues	1.00			
			1	Consistently free of taste and odor complaints
			3	Occasional taste and odor complaints
			5	Frequent taste and odor complaints
Well Testing - Contamination	1.00			
			1	Consistently free of contaminants
			3	Occasional contaminants, retest needed
			5	Contaminants require administrative action
Well Testing - Microorganisms	1.00			
			1	Consistently free of microorganisms
			3	Occasional out of spec water, retest needed
			5	Out of spec water requiring administrative action
Well Yield	1.00			
			1	Meets designed flow, well drawdown
			5	Under performing, excessive drawdown

# Appendix B

## Risk Ranking and Risk Scores

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure				Likelihood of Failure				COF	LOF	Risk		
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	System Restoration	Safety of public and employees	O and M protocols	Performance				Physical Condition	Redundancy
ELD-777002	Well #2 Well Site	SITE	Distribution	Well 02	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	4	4	7	4	7	5	7	1	10	5.65	4.89	27.65
ELD-124002	Well #2 Breaker Panel	MCC	Distribution	Well 02	30	8/15/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	7	4	7	5	7	1	10	5.35	4.89	26.19
ELD-052012	Well #12 Flow Meter	FLOW METER	Distribution	Well 12	10	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	7	1	5	5	10	10	3.10	8.16	25.29
ELD-685004	Well #4	WELL	Distribution	Well 04	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	10	10	7	4	1	1	5	5	10	1	4.00	6.26	25.05
ELD-795002	Well #9 FCV-Recirc Valve	PRV VALVE	Distribution	Well 09	50	8/17/2011	Ryan Channell			2.33	Good. Condition Grade 2. Minor wear.	7	7	10	7	4	7	5	3	3	5	6.55	3.63	23.79
ELD-800004	Tank #4	TANK	Distribution	Tank 4	30	8/16/2011	Ryan Channell			1.75	Good. Condition Grade 2. Minor wear.	10	10	7	7	4	10	5	1	3	5	7.60	3.11	23.60
ELD-685003	Well #3	WELL	Distribution	Well 03	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	10	10	7	1	1	1	5	5	10	1	3.40	6.26	21.29
ELD-685005	Well #5	WELL	Distribution	Well 05	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	10	10	7	1	1	1	5	5	10	1	3.40	6.26	21.29
ELD-685012	Well #12	WELL	Distribution	Well 12	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	10	10	7	1	1	1	5	5	10	1	3.40	6.26	21.29
ELD-783001	P.R.V. #1A Belicias East	PRV	Distribution	Belicias East	50	8/17/2011	Ryan Channell			2.60	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	4	4	1	7	4	1	3	7	5	4.15	4.89	20.31
ELD-685002	Well #2	WELL	Distribution	Well 02	30	8/15/2011	Ryan Channell			1.22	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	7	1	10	4.15	4.89	20.31
ELD-290002	Well #2 Sodium Hypo Pump	PUMP METERING	Distribution	Well 02	5	8/18/2011	Ryan Channell			2.29	Good. Condition Grade 2. Minor wear.	1	1	4	4	4	4	5	7	3	10	3.40	5.74	19.51
ELD-124013	Well #12 Breaker Panel	MCC	Distribution	Well 12	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	7	1	5	5	10	1	3.10	6.26	19.42
ELD-777009	Well #9 Well Site	SITE	Distribution	Well 09	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	7	10	7	4	7	5	3	1	5	6.85	2.79	19.11
ELD-783011	P.R.V. #8A Fortuna Rd.	PRV	Distribution	Fortuna	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783013	P.R.V. #9A Estambre Rd	PRV	Distribution	Gaviota	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783014	P.R.V. #9B Estambre Rd	PRV	Distribution	Gaviota	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783016	P.R.V. #11A Sabroso Road	PRV	Distribution	Sabroso	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783017	P.R.V. #11B Sabroso Rd	PRV	Distribution	Sabroso	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783020	P.R.V. #13A Caliente Road	PRV	Distribution	Caliente	50	8/17/2011	Ryan Channell			2.60	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783021	P.R.V. #13B Caliente Road	PRV	Distribution	Caliente	50	8/17/2011	Ryan Channell			2.60	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-783012	P.R.V. #8B Fortuna Rd.	PRV	Distribution	Fortuna	50	8/17/2011	Ryan Channell			2.73	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	4	1	7	4	1	3	7	5	3.85	4.89	18.84
ELD-210032	Old Road S. Booster Pump #2	PUMP CENT	Distribution	Old Rd S	20	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	4	1	4	5	5	10	5	2.65	7.11	18.83
ELD-210231	Old Road S. Booster Pump #1	PUMP CENT	Distribution	Old Rd S	20	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	4	1	4	5	5	10	5	2.65	7.11	18.83
ELD-777031	Tank #1 Site	SITE	Distribution	Tank 1	50	8/16/2011	Ryan Channell			2.00	Good. Condition Grade 2. Minor wear.	10	10	7	7	4	10	5	1	3	1	7.60	2.26	17.20
ELD-777033	Tank #3 Site	SITE	Distribution	Tank 3	50	8/16/2011	Ryan Channell			2.17	Good. Condition Grade 2. Minor wear.	10	10	7	7	4	10	5	1	3	1	7.60	2.26	17.20
ELD-777034	Tank #4 Site	SITE	Distribution	Tank 4	50	8/16/2011	Ryan Channell			1.33	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	5	7.60	2.26	17.20
ELD-211002	Well #2 Submersible Pump	SUB PUMP	Distribution	Well 02	5	8/15/2011	Ryan Channell			2.71	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	4	1	1	1	4	5	7	7	5	2.65	6.37	16.88
ELD-777023	Old Rd S. Booster Station Site	SITE	Distribution	Old Rd S	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	1	4	4	7	4	5	5	1	5	5.05	3.32	16.74
ELD-290014	Well #14 Sodium Hypo Pump	PUMP METERING	Distribution	Well 14	5	8/18/2011	Ryan Channell			2.29	Good. Condition Grade 2. Minor wear.	1	1	4	4	4	4	5	3	3	10	3.40	4.68	15.93
ELD-290015	Well #15 Sodium Hypo Pump	PUMP METERING	Distribution	Well 15	5	8/18/2011	Ryan Channell			2.29	Good. Condition Grade 2. Minor wear.	1	1	4	4	4	4	5	3	3	10	3.40	4.68	15.93
ELD-124009	Well #9 Breaker Panel	MCC	Distribution	Well 09	30	8/16/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	7	4	7	4	7	5	3	1	5	5.65	2.79	15.76
ELD-022232	Old Rd S Vault Discharge PIT	INSTRUMENT	Distribution	Old Rd S	10	8/18/2011	Mr. Ron Thomas			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	4	4	7	4	5	5	1	5	4.75	3.32	15.75
ELD-777010	Well # 10 Well Site	SITE	Distribution	Well 10	50	8/16/2011	Ryan Channell			1.50	Good. Condition Grade 2. Minor wear.	4	4	10	7	7	7	5	1	3	1	6.70	2.26	15.16
ELD-685006	Well #6	WELL	Distribution	Well 06	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	1	5	5	1	10	3.40	4.37	14.85
ELD-685007	Well #7	WELL	Distribution	Well 07	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	1	5	5	1	10	3.40	4.37	14.85
ELD-685008	Well #8	WELL	Distribution	Well 08	30	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	1	5	5	1	10	3.40	4.37	14.85
ELD-022231	Old Rd S. Vault Inlet PIT	INSTRUMENT	Distribution	Old Rd S	10	8/18/2011	Mr. Ron Thomas			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	4	7	4	5	5	1	5	4.45	3.32	14.76
ELD-310232	Old Road South Pump #2 Motor	MOTOR	Distribution	Old Rd S	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	4	5	5	10	5	2.05	7.11	14.57
ELD-310231	Old Road South Pump #1 Motor	MOTOR	Distribution	Old Rd S	30	8/18/2011	Mr. Ron Thomas	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	4	5	5	10	5	2.05	7.11	14.57
ELD-140006	100KW Generator Set	GENERATOR	Distribution	Generator	30	8/17/2011	Ryan Channell			1.10	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	1	10	4	1	1	1	10	4.90	2.89	14.18
ELD-124004	Well #4 Breaker Panel	MCC	Distribution	Well 04	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	4	4	1	1	5	5	10	1	2.20	6.26	13.78
ELD-211001	Well #1 Submersible Pump	SUB PUMP	Distribution	Well 01	5	8/15/2011	Ryan Channell	Pump has been pulled	Non Existent	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	4	4	1	1	5	5	10	1	2.20	6.26	13.78
ELD-211004	Well #4 Submersible Pump	SUB PUMP	Distribution	Well 04	5	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	4	4	1	1	5	5	10	1	2.20	6.26	13.78
ELD-783002	P.R.V. #18 Belicias East	PRV	Distribution	Belicias East	50	8/17/2011	Ryan Channell			2.20	Good. Condition Grade 2. Minor wear.	4	4	4	1	7	4	1	3	3	5	4.15	3.21	13.32
ELD-783028	P.R.V. #17B Spirit Wind	PRV	Distribution	Cerro Alto	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	4	4	1	7	4	1	3	3	5	4.15	3.21	13.32
ELD-783027	P.R.V. #17A Spirit Wind	PRV	Distribution	Cerro Alto	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	4	4	1	7	4	1	3	3	5	4.15	3.21	13.32

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure					Likelihood of Failure					COF	LOF	Risk
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	System Restoration	Safety of public and employees	O and M protocols	Performance	Physical Condition	Redundancy			
ELD-022001	Tank #1 Level Transmitter	INSTRUMENT	Distribution	Tank 1	10	8/16/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022004	Tank #2A Level Transmitter	INSTRUMENT	Distribution	Tank 2	10	8/16/2011	Ryan Channell			1.19	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022005	Tank #3 Level Transmitter	INSTRUMENT	Distribution	Tank 3	10	8/16/2011	Ryan Channell			1.21	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022006	Tank #4 Level Transmitter	INSTRUMENT	Distribution	Tank 4	10	8/16/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022233	Well #9 Sub Tank Transducer	INSTRUMENT	Distribution	Well 09 Booster Station	10	8/16/2011	Ryan Channell			1.23	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022002	Tank #1A Level Transmitter	INSTRUMENT	Distribution	Tank 1	10	8/16/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-022003	Tank #2 Level Transmitter	INSTRUMENT	Distribution	Tank 2	10	8/16/2011	Ryan Channell			1.19	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	3	1	5	4.75	2.79	13.25
ELD-052004	Well #4 Flow Meter	FLOW METER	Distribution	Well 04	10	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	5	5	10	10	1.60	8.16	13.05
ELD-783005	P.R.V. #3 Conchas Loop	PRV	Distribution	Conchas	50	8/17/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783007	P.R.V. #4B VG&Torreon	PRV	Distribution	Torren Rd	50	8/17/2011	Ryan Channell			2.07	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783008	P.R.V. #5 Esperia Court	PRV	Distribution	Esperia	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783010	P.R.V. #7 VG&Compadres South	PRV	Distribution	Compadres	50	8/17/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783015	P.R.V. #10 Casa Del Oro	PRV	Distribution	Gaviota	50	8/17/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783018	P.R.V. #12A AveEld&Compadres	PRV	Distribution	Compadres	50	8/17/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783019	P.R.V. #12B AveEld&Compadres	PRV	Distribution	Compadres	50	8/17/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783023	P.R.V. #15A Highway 285	PRV	Distribution	Los Vaqueros	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783024	P.R.V. #15B Highway 285	PRV	Distribution	Los Vaqueros	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783026	P.R.V. #16B Lamy	PRV	Distribution	Lamy	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783006	P.R.V. #4A VG&Torreon	PRV	Distribution	Torren Rd	50	8/17/2011	Ryan Channell			2.07	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783009	P.R.V. #6 VG&Enebro	PRV	Distribution	Enebro	50	8/17/2011	Ryan Channell			1.53	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-783022	P.R.V. #14 Principe De Paz	PRV	Distribution	Hijo De Dios	50	8/17/2011	Ryan Channell			1.93	Good. Condition Grade 2. Minor wear.	4	1	4	1	7	4	1	3	3	5	3.85	3.21	12.36
ELD-211013	Well #13 Submersible Pump	SUB PUMP	Distribution	Well 13	5	8/15/2011	Ryan Channell	Pump has been pulled	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	4	1	1	5	5	10	1	1.90	6.26	11.90
ELD-310011	Well #2 Pump Motor	MOTOR	Distribution	Well 02	30	8/15/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	4	5	7	3	10	2.05	5.74	11.76
ELD-685009B	Well #9	WELL	Distribution	Well 09	30	8/16/2011	Ryan Channell	Well is test well only no pump and motor		1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	3	1	5	4.15	2.79	11.58
ELD-685009A	Well #9	WELL	Distribution	Well 09	30	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	3	1	5	4.15	2.79	11.58
ELD-310012	Well #17 Pump Motor	MOTOR	Distribution	Well 17	30	8/15/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	7	4	4	4	4	7	5	1	3	1	5.05	2.26	11.43
ELD-310013	Well #14 Pump Motor	MOTOR	Distribution	Well 14	30	8/15/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	7	4	4	4	4	7	5	1	3	1	5.05	2.26	11.43
ELD-310233	Well #18 Pump Motor	MOTOR	Distribution	Well 18	30	8/17/2011	Ryan Channell			2.14	Good. Condition Grade 2. Minor wear.	7	4	4	4	4	7	5	1	3	1	5.05	2.26	11.43
ELD-051010	Well #10 Flow Meter	FLOW METER	Distribution	Well 10	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	7	1	5	1	1	10	3.40	3.32	11.27
ELD-685001	Well #1	WELL	Distribution	Well 01	30	8/15/2011	Ryan Channell	Pump and motor have been pulled well is offline.		2.33	Good. Condition Grade 2. Minor wear.	10	10	7	1	1	1	5	5	3	1	3.40	3.32	11.27
ELD-685013	Well #13	WELL	Distribution	Well 13	30	8/15/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	10	10	7	1	1	1	5	5	3	1	3.40	3.32	11.27
ELD-310021	Well #9 Pump Motor	MOTOR	Distribution	Well 09	30	8/16/2011	Ryan Channell	Pump and motor Have been pulled	Not Functional	1.67	Good. Condition Grade 2. Minor wear.	7	1	1	1	4	4	5	3	3	5	3.10	3.63	11.26
ELD-210008	Well #8 Submersible Pump	SUB PUMP	Distribution	Well 08	5	8/16/2011	Ryan Channell			3.00	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	1	1	1	1	1	5	5	7	10	1.60	6.89	11.03
ELD-211006	Well #6 Submersible Pump	SUB PUMP	Distribution	Well 06	5	8/15/2011	Ryan Channell			3.00	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	1	1	1	1	1	5	5	7	10	1.60	6.89	11.03
ELD-777032	Tank #2 Site	SITE	Distribution	Tank 2	50	8/16/2011	Ryan Channell			1.17	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-800001	Tank #1	TANK	Distribution	Tank 1	30	8/16/2011	Ryan Channell			1.22	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-800002	Tank #2	TANK	Distribution	Tank 2	30	8/16/2011	Ryan Channell	Blistering of internal coating		1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-800003	Tank #3	TANK	Distribution	Tank 3	30	8/16/2011	Ryan Channell			1.22	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-800001A	Tank #1A	TANK	Distribution	Tank 1	30	8/16/2011	Ryan Channell			1.22	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-800002A	Tank #2A	TANK	Distribution	Tank 2	30	8/16/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	7	4	10	5	1	1	1	7.60	1.42	10.80
ELD-211014	Well #14 Submersible Pump	SUB PUMP	Distribution	Well 14	5	8/15/2011	Ryan Channell			2.71	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	4	1	1	1	4	5	1	7	1	2.65	3.95	10.46
ELD-211015	Well #15 Submersible Pump	SUB PUMP	Distribution	Well 15	5	8/15/2011	Ryan Channell			2.71	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	4	1	1	1	4	5	1	7	1	2.65	3.95	10.46
ELD-211018	Well #18 Submersible Pump	SUB PUMP	Distribution	Well 18	5	8/17/2011	Ryan Channell			2.71	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	4	1	1	1	4	5	1	7	1	2.65	3.95	10.46
ELD-211017	Well #17 Submersible Pump	SUB PUMP	Distribution	Well 17	5	8/15/2011	Ryan Channell			3.00	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	7	4	1	1	1	4	5	1	7	1	2.65	3.95	10.46
ELD-777017	Well #17 Well Site	SITE	Distribution	Tank 2	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	10	4	4	10	5	1	1	1	7.30	1.42	10.37
ELD-310014	Well #15 Pump Motor	MOTOR	Distribution	Well 15	30	8/15/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	1	4	4	4	4	7	5	1	3	1	4.45	2.26	10.07
ELD-124011	Well #1 Breaker Panel--Inside	MCC	Distribution	Well 01	30	8/15/2011	Ryan Channell	No load to MCC	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	5	5	10	1	1.60	6.26	10.02

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure				Likelihood of Failure				COF	LOF	Risk		
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	System Restoration	System of public and employees	O and M protocols	Performance				Physical Condition	Redundancy
ELD-124012	Well #1 Breaker Panel--Outside	MCC	Distribution	Well 01	30	8/15/2011	Ryan Channell	No load to MCC	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	5	5	10	1	1.60	6.26	10.02
ELD-211012	Well #12 Submersible Pump	SUB PUMP	Distribution	Well 12	5	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	7	1	1	1	1	1	5	5	10	1	1.60	6.26	10.02
ELD-801002	Well #9 Sub Tank	TANK	Distribution	Well 09 Booster Station	30	8/16/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	4	1	1	3	1	5	4.15	2.37	9.83
ELD-310222	Tank #2. Booster Pump #2 Motor	MOTOR	Distribution	Tank 2 Booster Station	30	8/16/2011	Ryan Channell	Not wired	Not Evaluated	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	4	1	1	10	1	2.05	4.79	9.82
ELD-915002	Panel AC Unit	AC UNIT	Distribution	Well 18	10	8/18/2011	Mr. Ron Thomas	New installation - no power to station, has to be powered up by generator set to operate. AC unit inoperable, will be taken care of under warranty.		3.36	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	1	1	1	4	5	1	7	5	2.05	4.79	9.82
ELD-210222	Tank #2 Booster Pump #2	PUMP CENT	Distribution	Tank 2 Booster Station	20	8/16/2011	Ryan Channell			5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	4	1	1	10	1	2.05	4.79	9.82
ELD-211009	Well #9 Submersible Pump	SUB PUMP	Distribution	Well 09	5	8/16/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	7	4	1	1	1	4	5	3	3	5	2.65	3.63	9.62
ELD-290006	Well #6 Sodium Hypo Pump	PUMP METERING	Distribution	Well 06	5	8/18/2011	Ryan Channell			1.14	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	4	4	4	4	5	3	1	5	3.40	2.79	9.48
ELD-290007	Well #7 Sodium Hypo Pump	PUMP METERING	Distribution	Well 07	5	8/18/2011	Ryan Channell			1.14	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	4	4	4	4	5	3	1	5	3.40	2.79	9.48
ELD-290008	Well #8 Sodium Hypo Pump	PUMP METERING	Distribution	Well 08	5	8/18/2011	Ryan Channell			1.14	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	4	4	4	4	5	3	1	5	3.40	2.79	9.48
ELD-290017	Well #17 Sodium Hypo Pump	PUMP METERING	Distribution	Well 17	5	8/18/2011	Ryan Channell			1.14	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	4	4	4	4	5	3	1	5	3.40	2.79	9.48
ELD-022012	Booster #9 Intake P.I.T.	INSTRUMENT	Distribution	Well 09 Booster Station	10	8/16/2011	Ryan Channell			1.94	Good. Condition Grade 2. Minor wear.	1	10	4	1	4	1	1	3	3	5	2.95	3.21	9.47
Well #18 Site	Well # Site	SITE	Distribution	Well 18	50	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	10	4	4	7	5	1	1	1	6.55	1.42	9.31
ELD-777016	Well 17 Well Site	SITE	Distribution	Well 17	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	10	4	4	7	5	1	1	1	6.55	1.42	9.31
ELD-777014	Well #14 Well Site	SITE	Distribution	Well 14	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	10	4	4	7	5	1	1	1	6.55	1.42	9.31
ELD-783004	P.R.V. #2B Ave De Amistad	PRV	Distribution	Amistad	50	8/17/2011	Ryan Channell			1.40	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	7	4	1	3	1	5	3.85	2.37	9.12
ELD-783025	P.R.V. #16A Lamy	PRV	Distribution	Lamy	50	8/17/2011	Ryan Channell			1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	7	4	1	3	1	5	3.85	2.37	9.12
ELD-783003	P.R.V. #2A Ave De Amistad	PRV	Distribution	Amistad	50	8/17/2011	Ryan Channell			1.40	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	7	4	1	3	1	5	3.85	2.37	9.12
ELD-090034	Tank #4 Telemetry Panel	TELEMETRY PANEL	Distribution	Tank 4	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	4	7	5	1	1	5	3.85	2.26	8.71
ELD-124010	Well # 10 Breaker Panel	MCC	Distribution	Well 10	30	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	7	7	7	5	1	1	1	6.10	1.42	8.67
ELD-777026	Torreon Booster Station Site	SITE	Distribution	Torreon	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	4	1	1	4	7	10	1	1	1	4.45	1.95	8.67
ELD-090002	Well #2 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 02	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	4	5	7	1	10	1.75	4.89	8.57
ELD-795001	Well #9 FCV- Bypass Valve	PRV VALVE	Distribution	Well 09	50	8/17/2011	Ryan Channell			2.33	Good. Condition Grade 2. Minor wear.	7	1	1	1	1	4	5	3	3	5	2.35	3.63	8.53
ELD-777015	Well #15 Well Site	SITE	Distribution	Well 15	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	10	10	4	4	7	5	1	1	1	5.95	1.42	8.46
ELD-777012	Well # 12 Well Site	SITE	Distribution	Well 12	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	7	1	5	5	1	1	3.40	2.47	8.41
ELD-211007	Well #7 Submersible Pump	SUB PUMP	Distribution	Well 07	5	8/15/2011	Ryan Channell			1.86	Good. Condition Grade 2. Minor wear.	7	1	1	1	1	1	5	5	3	10	1.60	5.21	8.34
ELD-124003	Well #3 Breaker Panel	MCC	Distribution	Well 03	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-211003	Well #3 Submersible Pump	SUB PUMP	Distribution	Well 03	5	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-211005	Well #5 Submersible Pump	SUB PUMP	Distribution	Well 05	5	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310007	Well #1 Pump Motor	MOTOR	Distribution	Well 01	30	8/15/2011	Ryan Channell	Motor has been removed from site	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310009	Well #12 Pump Motor	MOTOR	Distribution	Well 12	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310010	Well #13 Pump Motor	MOTOR	Distribution	Well 13	30	8/15/2011	Ryan Channell	Well motor has been pulled	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310015	Well #3 Pump Motor	MOTOR	Distribution	Well 03	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310016	Well #4 Pump Motor	MOTOR	Distribution	Well 04	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310017	Well #5 Pump Motor	MOTOR	Distribution	Well 05	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-051205	Well #5 Flow Meter	FLOW METER	Distribution	Well 05	10	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	5	5	10	1	1.30	6.26	8.14
ELD-310008	Well #10 Pump Motor	MOTOR	Distribution	Well 10	30	8/16/2011	Ryan Channell			3.00	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	4	1	1	1	1	4	5	1	7	1	2.05	3.95	8.09
ELD-211242	Well #1 Submersible Pump #2	SUB PUMP	Distribution	Well 01 Booster Station	5	8/15/2011	Ryan Channell	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	7	1	1	1	1	1	3	1	10	1	1.60	5.00	8.00
ELD-211241	Well #1 Submersible Pump #1	SUB PUMP	Distribution	Well 01 Booster Station	5	8/15/2011	Ryan Channell	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	7	1	1	1	1	1	3	1	10	1	1.60	5.00	8.00
ELD-913008	Well #8 CL2 Room Vent Fan	FAN	Distribution	Well 08	10	8/16/2011	Ryan Channell	Not functional	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	1	1	10	1	1.60	4.79	7.66
ELD-913009	Well #9 CL2 Room Vent Fan	FAN	Distribution	Well 09	10	8/16/2011	Ryan Channell	Fan is broken - work order has been issued.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	1	1	10	1	1.60	4.79	7.66

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure					Likelihood of Failure					COF	LOF	Risk
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	System Restoration	Safety of public and employees	O and M protocols	Performance	Physical Condition	Redundancy			
ELD-913014	Well #14 CL2 Room Vent Fan	FAN	Distribution	Well 14	10	8/15/2011	Ryan Channell	Not functional motor is burned out	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	4	1	1	1	1	10	1	1.60	4.79	7.66
ELD-310003	Well #9 Booster Pump Motor #2	MOTOR	Distribution	Well 09 Booster Station	30	8/16/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	7	1	1	1	4	1	1	3	3	5	2.35	3.21	7.54
ELD-310004	Well #9 Booster Pump Motor #2	MOTOR	Distribution	Well 09 Booster Station	30	8/16/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	7	1	1	1	4	1	1	3	3	5	2.35	3.21	7.54
Torreon Booster Pump Motor	Torreon Booster Pump Motor	MOTOR	Distribution	Torreon	30	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	1	1	4	7	10	1	1	1	3.85	1.95	7.50
Torreon Control Panel	Torreon Control Panel	CONTROL PANEL	Distribution	Torreon	20	8/17/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	1	1	4	7	10	1	1	1	3.85	1.95	7.50
Compadres Booster Pump Motor	Compadres Booster Pump Motor	MOTOR	Distribution	Campadres BS	30	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	10	1	10	1	1.30	5.74	7.46
Compadres BS Telemetry Panel	Compadres BS Telemetry Panel	TELEMETRY PANEL	Distribution	Campadres BS	10	8/18/2011	Ryan Channell	Out of service.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	10	1	10	1	1.30	5.74	7.46
Compadres BS MCC	Compadres BS MCC	MCC	Distribution	Campadres BS	30	8/18/2011	Ryan Channell	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	10	1	10	1	1.30	5.74	7.46
ELD-124015	Well #15 Breaker Panel	MCC	Distribution	Well 15	30	8/15/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	4	4	4	4	7	5	1	1	1	5.05	1.42	7.18
ELD-790001	Tank #4 Flow Control Valve	VALVE	Distribution	Tank 4	50	8/16/2011	Ryan Channell			1.11	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	1	1	4	4	5	1	1	5	3.10	2.26	7.02
ELD-801001	Well #1 Booster Sub Tank	TANK	Distribution	Well 01 Booster Station	30	8/15/2011	Ryan Channell			1.56	Good. Condition Grade 2. Minor wear.	10	10	7	1	1	1	3	1	3	1	3.40	2.05	6.98
ELD-090023	Old Road S. Telemetry Panel	TELEMETRY PANEL	Distribution	Old Rd S	10	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	5	1	5	2.05	3.32	6.80
ELD-310018	Well #6 Pump Motor	MOTOR	Distribution	Well 06	30	8/15/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	1	5	5	3	10	1.30	5.21	6.77
ELD-310020	Well #8 Pump Motor	MOTOR	Distribution	Well 08	30	8/16/2011	Ryan Channell			1.57	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	1	5	5	3	10	1.30	5.21	6.77
ELD-124014	Well #14 Breaker Panel	MCC	Distribution	Well 14	30	8/15/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	1	1	1	4.75	1.42	6.75
ELD-124017	Well #17 Breaker Panel	MCC	Distribution	Well 17	30	8/15/2011	Ryan Channell			1.33	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	1	1	1	4.75	1.42	6.75
Radio Repeater	Radio Repeater	RADIO	Distribution	Tank 1	10	8/18/2011	Mr. Ron Thomas			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	7	7	1	4	7	5	1	1	1	4.75	1.42	6.75
ELD-000047	Well #18 MCC Panel	MCC	Distribution	Well 18	30	8/17/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	4	4	4	7	5	1	1	1	4.75	1.42	6.75
ELD-310005	Well #1 Booster Pump #1 Motor	MOTOR	Distribution	Well 01 Booster Station	30	8/15/2011	Ryan Channell	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	3	1	10	1	1.30	5.00	6.50
ELD-310006	Well #1 Booster Pump #2 Motor	MOTOR	Distribution	Well 01 Booster Station	30	8/15/2011	Ryan Channell	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	4	1	1	1	1	1	3	1	10	1	1.30	5.00	6.50
ELD-100002	Well 02 VFD	VFD	Distribution	Well 02 Site	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	7	1	10	1.30	4.89	6.36
ELD-126026	Torreon Main Disconnect	DISCONNECT	Distribution	Torreon	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	5	2.80	2.26	6.34
ELD-126034	Tank #4 Main Disconnect	DISCONNECT	Distribution	Tank 4	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	5	2.80	2.26	6.34
ELD-915001	Panel AC Unit	AC UNIT	Distribution	Well 17	10	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	5	2.80	2.26	6.34
ELD-051002	Tank #2 Booster Flow Meter	FLOW METER	Distribution	Tank 2 Booster Station	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	5	1	1	10	1.90	3.32	6.30
ELD-022018	Well #6 Level Transducer	INSTRUMENT	Distribution	Well 06	10	8/17/2011	Ryan Channell	Out of service, needs to be replaced.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	1	1	1	5	1	10	5	1.00	6.05	6.05
ELD-200004	Torreon Booster Pump	PUMP CENT	Distribution	Torreon	20	8/16/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	7	10	1	1	1	3.10	1.95	6.04
Torreon Flow Control Valve	Torreon Flow Control Valve	VALVE	Distribution	Torreon	50	8/17/2011	Ryan Channell			1.11	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	4	1	1	4	4	10	1	1	1	3.10	1.95	6.04
ELD-211010	Well #10 Submersible Pump	SUB PUMP	Distribution	Well 10	5	8/16/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	7	4	1	1	1	4	5	1	3	1	2.65	2.26	6.00
ELD-685010	Well #10	WELL	Distribution	Well 10	30	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	1	1	1	4.15	1.42	5.90
ELD-685014	Well #14	WELL	Distribution	Well 14	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	1	1	1	4.15	1.42	5.90
ELD-685015	Well #15	WELL	Distribution	Well 15	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	1	1	1	4.15	1.42	5.90
ELD-685017	Well #17	WELL	Distribution	Well 17	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	1	1	1	4.15	1.42	5.90
ELD-685029	Well #18	WELL	Distribution	Well 18	30	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	10	7	1	1	4	5	1	1	1	4.15	1.42	5.90
Compadres Booster Pump	Compadres Booster Pump	SUB PUMP	Distribution	Campadres BS	5	8/18/2011	Mr. Ron Thomas	Out of service	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	1	1	1	10	1	10	1	1.00	5.74	5.74
Compadres BS PRV	Compadres BS PRV	PRV VALVE	Distribution	Campadres BS	50	8/18/2011	Mr. Ron Thomas			5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	1	1	1	10	1	10	1	1.00	5.74	5.74
ELD-090009	Well #9 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 09	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	3	1	5	2.05	2.79	5.72
ELD-090008	Well #8 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 08	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-122007	Well #7 Pump Control Panel	CONTROL PANEL	Distribution	Well 07	20	8/15/2011	Ryan Channell			1.38	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure				Likelihood of Failure				COF	LOF	Risk		
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	System Restoration	Safety of public and employees	O and M protocols	Performance				Physical Condition	Redundancy
ELD-124006	Well #6 Breaker Panel	MCC	Distribution	Well 06	30	8/15/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-124008	Well #8 Breaker Panel	MCC	Distribution	Well 08	30	8/16/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-180001	Well #6 Step Down Transformer	TANSFORMER	Distribution	Well 06	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-310019	Well #7 Pump Motor	MOTOR	Distribution	Well 07	30	8/15/2011	Ryan Channell			1.29	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-777007	Well #7 Well Site	SITE	Distribution	Well 07	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-777008	Well #8 Well Site	SITE	Distribution	Well 08	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-090006	Well #6 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 06	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-777006	Well #6 Well Site	SITE	Distribution	Well 06	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-090007	Well #7 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 07	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	10	1.30	4.37	5.68
ELD-913003	CL2 Room Exhaust Fan	FAN	Distribution	Well 02	10	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	4	4	1	1	1	1	1	10	1.90	2.89	5.50
ELD-090001	Tank #1 Telemetry Panel	TELEMETRY PANEL	Distribution	Tank 1	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	4	7	5	1	1	1	3.85	1.42	5.47
ELD-090022	Tank #2 Telemetry Panel	TELEMETRY PANEL	Distribution	Tank 2	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	4	7	5	1	1	1	3.85	1.42	5.47
ELD-090033	Tank #3 Telemetry Panel	TELEMETRY PANEL	Distribution	Tank 3	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	1	4	7	5	1	1	1	3.85	1.42	5.47
ELD-777001	Well #1 Well Site	SITE	Distribution	Well 01	50	8/15/2011	Ryan Channell			1.17	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	4	1	1	5	5	1	1	2.20	2.47	5.44
ELD-777004	Well #4 Well Site	SITE	Distribution	Well 04	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	4	4	1	1	5	5	1	1	2.20	2.47	5.44
Well #17 Level Transducer	Well #15 Level Transducer	INSTRUMENT	Distribution	Well 17	10	8/17/2011	Ryan Channell	Removed from site.	Not Functional	5.00	Very poor. Grade 5. Requires complete rehabilitation or replacement. Failed.	1	1	1	1	1	1	5	1	10	1	1.00	5.21	5.21
ELD-126132	Well #13 Disconnect Switch	DISCONNECT	Distribution	Well 13	20	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	5	1	1	2.05	2.47	5.07
ELD-124001	Well #13 Breaker Panel	MCC	Distribution	Well 13	30	8/15/2011	Ryan Channell			1.11	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	5	5	1	1	1.90	2.47	4.70
ELD-777013	Well #13 Well Site	SITE	Distribution	Well 13	50	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	5	5	1	1	1.90	2.47	4.70
ELD-051001	Well #1 Flow Meter	FLOW METER	Distribution	Well 01	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	5	5	1	1	1.90	2.47	4.70
ELD-100013	Well 13 VFD	VFD	Distribution	Well 13 Site	10	8/15/2011	Ryan Channell	Well is offline.	Not Evaluated	1.80	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	1	5	5	3	1	1.30	3.32	4.31
ELD-126015	Well #15 Main Disconnect	DISCONNECT	Distribution	Well 15	20	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	1	2.80	1.42	3.98
ELD-126018	Well #18 Disconnect Switch	DISCONNECT	Distribution	Well 18	20	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	1	2.80	1.42	3.98
ELD-126141	Well #14 Main Disconnect	DISCONNECT	Distribution	Well 14	20	8/15/2011	Ryan Channell			1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	1	2.80	1.42	3.98
ELD-126142	Well #14 Disconnect Switches	DISCONNECT	Distribution	Well 14	20	8/15/2011	Ryan Channell			1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	1	2.80	1.42	3.98
Well #18 Transfer Switch	Well #18 Transfer Switch	DISCONNECT	Distribution	Well 18	20	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	4	4	5	1	1	1	2.80	1.42	3.98
ELD-592013	Well #13 Desanding Unit	STRAINER	Distribution	Well 13	20	8/15/2011	Ryan Channell			2.67	Poor. Condition Grade 4. Unable to meet level of service life. Failure imminent.	1	1	1	1	1	1	5	1	7	1	1.00	3.95	3.95
ELD-200005	Well #9 Booster Pump #1	PUMP CENT	Distribution	Well 09 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	3	1	5	1.60	2.37	3.79	
ELD-200006	Well #9 Booster Pump #2	PUMP CENT	Distribution	Well 09 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	3	1	5	1.60	2.37	3.79	
ELD-310221	Tank #2. Booster Pump #1 Motor	MOTOR	Distribution	Tank 2 Booster Station	30	8/16/2011	Ryan Channell			1.75	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	4	1	1	3	1	2.05	1.84	3.78
ELD-777027	Campadres Booster Station Site	SITE	Distribution	Campadres BS	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	1	1	1	1	1	10	1	1	1	1.90	1.95	3.70
ELD-100005	Well #18 VFD	VFD	Distribution	Well 18	10	8/17/2011	Ryan Channell			1.56	Good. Condition Grade 2. Minor wear.	7	1	1	1	1	1	5	1	3	1	1.60	2.26	3.62
ELD-051034	Tank #4 Flow Meter	FLOW METER	Distribution	Tank 4	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	5	1.90	1.84	3.50
ELD-051017	Well #17 Flow Meter	FLOW METER	Distribution	Well 17	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	7	1	1	1	1	1	3.40	1.00	3.40
ELD-051018	Well #18 Flow Meter	FLOW METER	Distribution	Well 18	10	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	7	1	1	1	1	1	3.40	1.00	3.40

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure					Likelihood of Failure					COF	LOF	Risk	
												Expense	Financial Impact	Public Confidence and Reputational Risk	Regulatory Compliance	Safety of public and employees	System Restoration	O and M protocols	Performance	Physical Condition	Redundancy				Reliability
ELD-022013	Well #13 Pressure Transmitter	INSTRUMENT	Distribution	Well 13	10	8/15/2011	Ryan Channell			1.94	Good. Condition Grade 2. Minor wear.	1	1	1	1	1	1	5	5	3	1	1	1.00	3.32	3.32
ELD-090013	Well #13 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 13	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	1	1	1.30	2.47	3.22
ELD-160032	Well #2 Cathodic Protection	CATHODIC	Distribution	Well 02	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	10	3	1	1	1	1.30	2.47	3.22
ELD-777003	Well #3 Well Site	SITE	Distribution	Well 03	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	1	1	1.30	2.47	3.22
ELD-777005	Well #5 Well Site	SITE	Distribution	Well 05	50	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	5	5	1	1	1	1.30	2.47	3.22
ELD-022017	Well #2 Level Transducer	INSTRUMENT	Distribution	Well 02	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	7	1	1	5	1	1	1	1	2.20	1.42	3.13
ELD-090014	Well #14 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 14	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	1	1	1	1	2.05	1.42	2.91
ELD-090015	Well #15 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 15	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	1	1	1	1	2.05	1.42	2.91
ELD-090017	Well #17 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 17	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	1	1	1	1	2.05	1.42	2.91
ELD-090010	Well #10 Telemetry Panel	TELEMETRY PANEL	Distribution	Well 10	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	5	1	1	1	1	2.05	1.42	2.91
ELD-777024	Tank #1 Booster Station Site	SITE	Distribution	Tank 1 Booster Station	50	8/16/2011	Ryan Channell			1.33	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	1	1	1	1	4	1	1	1	1	1	2.65	1.00	2.65
ELD-777025	Tank #2 Booster Station Site	SITE	Distribution	Tank 2 Booster Station	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	10	1	1	1	1	4	1	1	1	1	1	2.65	1.00	2.65
ELD-310002	Tank #1 Booster Pump #2 Motor	MOTOR	Distribution	Tank 1 Booster Station	30	8/16/2011	Ryan Channell			1.67	Good. Condition Grade 2. Minor wear.	4	1	1	1	1	1	1	1	3	1	1	1.30	1.84	2.39
ELD-100003	Well #17 VFD	VFD	Distribution	Well 17	10	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	5	1	1	1	1	1.60	1.42	2.27
ELD-100014	Well 14 VFD	VFD	Distribution	Well 14 Site	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	5	1	1	1	1	1.60	1.42	2.27
ELD-100015	Well #15 VFD	VFD	Distribution	Well 15	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	5	1	1	1	1	1.60	1.42	2.27
ELD-124022	Tank #2 Booster Breaker Panel	MCC	Distribution	Tank 2 Booster Station	30	8/16/2011	Ryan Channell			1.25	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-126022	Tank #2 Booster Disconnect	DISCONNECT	Distribution	Tank 2 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-126024	Booster Station #1 Disconnect	DISCONNECT	Distribution	Tank 1 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-200003	Tank #1 Booster Pump #2	PUMP CENT	Distribution	Tank 1 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-210221	Tank #2 Booster Pump #1	PUMP CENT	Distribution	Tank 2 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-090031	Tank #1 Booster Telemetry Panel	TELEMETRY PANEL	Distribution	ELD-	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-200002	Tank #1 Booster Pump #1	PUMP CENT	Distribution	Tank 1 Booster Station	20	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	4	1	1	1	1	1	2.05	1.00	2.05
ELD-051006	Well #6 Flow Meter	FLOW METER	Distribution	Well 06	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051007	Well #7 Flow Meter	FLOW METER	Distribution	Well 07	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051009	Well #9 Flow Meter	FLOW METER	Distribution	Well 09	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051014	Well #14 Flow Meter	FLOW METER	Distribution	Well 14	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051015	Well #15 Flow Meter	ELD-	Distribution	Well 15	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051026	Torreon Flow Meter	FLOW METER	Distribution	Torreon	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051008	Well #8 Flow Meter	FLOW METER	Distribution	Well 08	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-051003	Well #2 Flow Meter	FLOW METER	Distribution	Well 02	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	4	1	1	1	1	1	1	1	1.90	1.00	1.90
ELD-685018	Test Well @ Well #14	WELL	Distribution	Well 14 Test Well	30	8/15/2011	Ryan Channell			1.80	Good. Condition Grade 2. Minor wear.	1	1	1	1	1	1	1	1	3	1	1	1.00	1.84	1.84
ELD-913002	Tank #2 CL2 Room Vent Fan	FAN	Distribution	Tank 2	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-913006	Well #6 CL2 Room Vent Fan	FAN	Distribution	Well 06	10	8/15/2011	Ryan Channell			1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1.60	1.00	1.60

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure					Likelihood of Failure					COF	LOF	Risk		
												Expense	Financial Impact	Public Confidence and Reputational Damage	Regulatory Compliance	Safety of public and employees	System Restoration	O and M protocols	Performance	Physical Condition	Redundancy				Reliability	
ELD-913006	CL2 Room Exhaust Fan	FAN	Distribution	Well 06	10	8/17/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-913013	Well #13 CL2 Room Vent Fan	FAN	Distribution	Well 13	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-913015	Well #15 CL2 Room Vent Fan	FAN	Distribution	Well 15	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-913007	Well #7 CL2 Room Vent Fan	FAN	Distribution	Well 07	10	8/15/2011	Ryan Channell			1.13	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	4	1	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-100012	Tank #2 Booster Pump VFD	VFD	Distribution	Tank 2 Booster Station	10	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	7	1	1	1	1	1	1	1	1	1	1	1	1.60	1.00	1.60
ELD-022021	Well #1 Sub Tank Transducer	INSTRUMENT	Distribution	Well 01 Booster Station	10	8/15/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	3	1	1	1	1	1	1.30	1.21	1.57
Discharge Pressure Transducer	Discharge Pressure Transducer	INSTRUMENT	Distribution	Torreon	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022007	Well #2 Pressure Transmitter	INSTRUMENT	Distribution	Well 02	10	8/15/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022008	Well #6 Pressure Transmitter	INSTRUMENT	Distribution	Well 06	10	8/15/2011	Ryan Channell			1.21	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022009	Well #7 Pressure Transmitter A	INSTRUMENT	Distribution	Well 07	10	8/15/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022019	Well #7 Level Transducer	INSTRUMENT	Distribution	Well 07	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022022	Well #9 Level Transducer	INSTRUMENT	Distribution	Well 09	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022023	Well #10 Level Transducer	INSTRUMENT	Distribution	Well 10	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022024	Well #13 Level Transducer	INSTRUMENT	Distribution	Well 13	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022026	Well #15 Level Transducer	INSTRUMENT	Distribution	Well 15	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022029	Well #8 Pressure Transducer	INSTRUMENT	Distribution	Well 08	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022221	Tank #2 Booster Intake PIT	INSTRUMENT	Distribution	Tank 2 Booster Station	10	8/16/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-161033	Tank #3 Power Batteries	UPS	Distribution	Tank 3	5	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-592002	Well #2 Desander Unit	STRAINER	Distribution	Well 02	20	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022014	Well #14 Level Transducer	INSTRUMENT	Distribution	Well 14	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
Intake Pressure Transducer	Intake Pressure Transducer	INSTRUMENT	Distribution	Torreon	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022014	Well #14 Pressure Transmitter	INSTRUMENT	Distribution	Well 14	10	8/15/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022015	Well #15 Pressure Transmitter	INSTRUMENT	Distribution	Well 15	10	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022020	Well #8 Level Transducer	INSTRUMENT	Distribution	Well 08	10	8/17/2011	Ryan Channell			1.18	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-022222	Tank #2 Booster Discharge PIT	INSTRUMENT	Distribution	Tank 2 Booster Station	10	8/16/2011	Ryan Channell			1.20	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	5	1	1	1	1	1	1.00	1.42	1.42
ELD-180002	Tank #2 Booster Transformer	TANSFORMER	Distribution	Tank 2 Booster Station	50	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	1	1	1	1	1	1	1.30	1.00	1.30
ELD-310001	Tank #1 Booster Pump #1 Motor	MOTOR	Distribution	Tank 1 Booster Station	30	8/16/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	4	1	1	1	1	1	1	1	1	1	1	1	1.30	1.00	1.30
ELD-685020	La Paz Test Well	WELL	Distribution	La Paz	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685021	Altura Test Well	WELL	Water Wells	Altura	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685023	Trailer Test Wells	WELL	Distribution	Trailer	30	8/18/2011	Ryan Channell	Quarterly meter readings submitted to State.		1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685024	4" Test Well	WELL	Water Wells	4" Test Well	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685026	Camino Valley 2 Test Well	WELL	Distribution	Camino Valley 2	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685027	Casa Del Oro & Balsa Test Well	WELL	Distribution	Casa Del Oro	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00

Asset ID	Asset Description	Asset Type	System	Location	Typical Lifespan	Review Date	Reviewer	Review Comments	Flag	Condition Score	Condition Category	Consequence of Failure					Likelihood of Failure					COF	LOF	Risk			
												Expense	Financial Impact	Public confidence and Reputational Risk	Regulatory Compliance	Safety of public and employees	System Restoration	O and M protocols	Performance	Physical Condition	Redundancy				Reliability		
ELD-685028	Test Well @ Well #6	WELL	Distribution	Well 06 Test Well	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685019	Test Well @ Well #15	WELL	Distribution	Well 15 Test Well	30	8/15/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685022	Country Store Test Well	WELL	Distribution	Country Store	30	8/18/2011	Ryan Channell	Ownership and operation of well by country store		1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-685025	Camino Valley 1 Test Well	WELL	Distribution	Camino Valley 1	30	8/18/2011	Ryan Channell			1.00	Very good. Condition Grade 1. New or nearly new. Only normal maintenance required.	1	1	1	1	1	1	1	1	1	1	1	1	1	1.00	1.00	1.00
ELD-022010	Well #7 Pressure Transmitter B	INSTRUMENT	Distribution	Well 07	10	8/15/2011	Ryan Channell	Asset does not exist	Non Existent		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-022011	Booster #9 Discharge P.I.T.	INSTRUMENT	Distribution	Well 09 Booster Station	10	8/16/2011	Ryan Channell	Pulled for repairs	Not Functional		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-022016	Well #1 Level Transducer	INSTRUMENT	Distribution	Well 01	10	8/17/2011	Ryan Channell	Removed from site	Non Existent		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-022028	Well #18 Level Transducer	INSTRUMENT	Distribution	Well 18	10	8/17/2011	Ryan Channell	Not at site.	Non Existent		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-022035	Well #18 Pressure Transmitter	INSTRUMENT	Distribution	Well 18	10	8/17/2011	Ryan Channell	Not at site.	Non Existent		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-051013	Well #13 Flow Meter	FLOW METER	Distribution	Well 13	10	8/15/2011	Ryan Channell	Has been removed for repair	Not Evaluated		Incomplete - With Flags	4	1	4	4	1	1	5	5					1	2.20		
ELD-290009	Well #9 Sodium Hypo Pump	PUMP METERING	Distribution	Well 09	5	8/18/2011	Ryan Channell	Pump pulled for repairs.	Non Existent		Incomplete - With Flags	1	1	4	4	4	4	5	3					5	3.40		
ELD-592001	Well #1 Desander Unit	STRAINER	Distribution	Well 01	20	8/15/2011	Ryan Channell	Out of service	Not Evaluated		Incomplete - With Flags	1	1	1	1	1	1	5	1					1	1.00		
ELD-913001	Tank #1 CL2 Room Vent Fan	FAN	Distribution	Tank 1	10	8/16/2011	Ryan Channell	No fan at site	Non Existent		Incomplete - With Flags	1	1	1	4	1	1	1	1					1	1.60		
ELD-913017	Well #17 CL2 Room Vent Fan	FAN	Distribution	Well 09	10	8/16/2011	Ryan Channell	Asset does not exist. no building at well 17	Non Existent		Incomplete - With Flags	1	1	1	4	1	1	1	1					1	1.60		
ELD-290013	Well #13 Sodium Hypo Pump	PUMP METERING	Distribution	Well 13	5	8/18/2011	Ryan Channell	No pump onsite.	Non Existent		Incomplete - With Flags	7	4	4	1	1	4	5	3					1	2.95		

# Appendix C

## Details for all Assets

Eldorado Asset List

Printed: 1/7/2016 11:53 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset
<b>Campadres Booster Station Site</b>				
ELD-200001	Campadres Booster Pump	Centrifugal Pump Horizontal	Campadres Booster Station Site	Eldorado Distribution System (ELD-792001)
<b>Old Rd S Booster Station Site</b>				
ELD-000015	Old Road Booster Instrumentation	Instrumentation	Old Rd S Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-000016	Old Road Booster Electrical	Electrical	Old Rd S Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-022032	Old Rd S Suc-Pres XMTR	Pressure Transmitters	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-022033	Old Rd S Discharge Pres XMTR	Pressure Transmitters	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-022231	Old Rd S Vault Inlet PIT	Pressure Transmitters	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-022232	Old Rd S Vault Discharge PIT	Pressure Transmitters	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-051011	Old Rd S Booster Discharge Flow Meter	Magnetic Flow Meter	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-051012	Old Rd S Booster Discharge Flow Display	Magnetic Flow Meter	Old Rd S Booster Station Site	Old Road Booster Instrumentation (ELD-000015)
ELD-090023	Old Road SCADA	Remote Telemetry Unit	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-100016	Old Rd S Booster Pump VFD 1	Variable Frequency Drive	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-100017	Old Rd S Booster Pump VFD 2	Variable Frequency Drive	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-100018	Old Rd S Booster Pump VFD 3	Variable Frequency Drive	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-122009	Old Rd S Booster Control Panel	Control Panel	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-160001	Old Road S Harmonic Filter 01	Harmonic Filter	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-160002	Old Road S Harmonic Filter 02	Harmonic Filter	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-160003	Old Road S Harmonic Filter 03	Harmonic Filter	Old Rd S Booster Station Site	Old Road Booster Electrical (ELD-000016)
ELD-210223	Old Rd S Booster Pump 1	Centrifugal Pump Vertical	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-210224	Old Rd S Booster Pump 2	Centrifugal Pump Vertical	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-210225	Old Rd S Booster Pump 3	Centrifugal Pump Vertical	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-310022	Old Rd S Booster Pump Motor 1	Motor Vertical AC	Old Rd S Booster Station Site	Old Rd S Booster Pump 1 (ELD-210223)
ELD-310023	Old Rd S Booster Pump Motor 2	Motor Vertical AC	Old Rd S Booster Station Site	Old Rd S Booster Pump 2 (ELD-210224)
ELD-310024	Old Rd S Booster Pump Motor 3	Motor Vertical AC	Old Rd S Booster Station Site	Old Rd S Booster Pump 3 (ELD-210225)
ELD-600001	Old Road Piping System	Piping System	Old Rd S Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-761002	Old Road Booster Building	Building	Old Rd S Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-777060	Old Road S Flow Meter Vault	Valve Vault	Old Rd S Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-783033	Old Road S Main Relief & Surge Valve - ARSV	Pressure Relief Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-784020	Booster Pump 01 Check Valve	Check Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-784021	Booster Pump 02 Check Valve	Check Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-784022	Booster Pump 03 Check Valve	Check Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787012	Booster Pump 01 Suction Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787013	Booster Pump 01 Discharge Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787014	Booster Pump 02 Suction Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787015	Booster Pump 02 Discharge Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787016	Booster Pump 03 Suction Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787017	Booster Pump 03 Discharge Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787018	Bypass Isolation Valve 01	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787019	Bypass Isolation Valve 02	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787020	Flow Meter Inlet Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-787021	Flow Meter Outlet Isolation Valve	Butterfly Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-790077	Old Road S Air Relief Valve 01	Air Relief Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-790078	Old Road S Air Relief Valve 02	Air Relief Valve	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-800005	Old Rd Hydro Pneumatic Tank	Hydro-Pneumatic Tank	Old Rd S Booster Station Site	Old Road Piping System (ELD-600001)
ELD-890001	Old Road Hand Chain Hoist	Electric Hoist	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-894001	Old Rd S 1 Ton Gantry Crane	Crane	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-910016	Old Road S Bldg Heater	Heater	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-913019	Old Road S Exhaust Fan	Exhaust Fan	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-951016	Old Road S Fire Extinguisher	Fire Extinguisher	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-957001	Emergency Light 01	Emergency Lights	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)
ELD-957002	Emergency Light 02	Emergency Lights	Old Rd S Booster Station Site	Old Road Booster Building (ELD-761002)

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset
<b>Tank 01 Booster Station Site</b>				
ELD-000011	Tank 01 Booster Electrical	Electrical	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-000012	Tank 01 Booster Instrumentation	Instrumentation	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-051019	Tank 01 Booster Flow Meter	Magnetic Flow Meter	Tank 01 Booster Station Site	Tank 01 Booster Instrumentation (ELD-000012)
ELD-090031	Tank 01 Booster SCADA	Remote Telemetry Unit	Tank 01 Booster Station Site	Tank 01 Booster Electrical (ELD-000011)
ELD-122010	Tank 01 Control Panel - BS1CP	Control Panel	Tank 01 Booster Station Site	Tank 01 Booster Electrical (ELD-000011)
ELD-122011	Tank 01 Booster Main Control Panel	Control Panel	Tank 01 Booster Station Site	Tank 01 Booster Electrical (ELD-000011)
ELD-126024	Booster Station 01 Disconnect	Disconnect Switch	Tank 01 Booster Station Site	Tank 01 Booster Electrical (ELD-000011)
ELD-200002	Tank 01 Booster Pump 1	Centrifugal Pump Horizontal	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-200003	Tank 01 Booster Pump 2	Centrifugal Pump Horizontal	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-310001	Tank 01 Booster Pump 1 Motor	Motor Horizontal AC	Tank 01 Booster Station Site	Tank 01 Booster Pump 1 (ELD-200002)
ELD-310002	Tank 01 Booster Pump 2 Motor	Motor Horizontal AC	Tank 01 Booster Station Site	Tank 01 Booster Pump 2 (ELD-200003)
ELD-600002	Tank 01 Booster Piping System	Piping System	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-777061	Tank 01 Booster Vault	Valve Vault	Tank 01 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-787022	Tank 01 Booster Isolation Valve 01	Butterfly Valve	Tank 01 Booster Station Site	Tank 01 Booster Piping System (ELD-600002)
ELD-787023	Tank 01 Booster Isolation Valve 02	Butterfly Valve	Tank 01 Booster Station Site	Tank 01 Booster Piping System (ELD-600002)
ELD-787024	Tank 01 Booster Isolation Valve 03	Butterfly Valve	Tank 01 Booster Station Site	Tank 01 Booster Piping System (ELD-600002)
ELD-790079	Tank 01 Booster Air Relief Valve	Air Relief Valve	Tank 01 Booster Station Site	Tank 01 Booster Piping System (ELD-600002)
ELD-790080	Tank 01 Booster Flow Control Valve	Flow Control Valve	Tank 01 Booster Station Site	Tank 01 Booster Piping System (ELD-600002)
<b>Tank 02 Booster Station Site</b>				
ELD-000013	Tank 02 Booster Electrical	Electrical	Tank 02 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-000014	Tank 02 Booster Instrumentation	Instrumentation	Tank 02 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-022037	Outlet Pressure Transmitter	Pressure Transmitters	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-022038	Bypass Pressure Transmitter	Pressure Transmitters	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-022221	Tank 02 Booster Intake PIT	Pressure Transmitters	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-022222	Tank 02 Booster Discharge PIT	Pressure Transmitters	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-051002	Tank 02 Booster Flow Meter	Magnetic Flow Meter	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-090022	Tank 02 SCADA	Remote Telemetry Unit	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-091001	Tank 02 Booster Station UPS	Uninterrupted Power Supply	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-100012	Tank 02 Booster Pump 01 VFD 01	Variable Frequency Drive	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-100019	Tank 02 Booster Pump 02 VFD 02	Variable Frequency Drive	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-123016	Tank 02 Control Panel	Control Panel	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-123017	Booster Pumps Control Panel	Control Panel	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-124022	Tank 02 Booster Breaker Panel	Breaker Panel	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-126022	Tank 02 Booster Disconnect 01	Disconnect Switch	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-126023	Tank 02 Booster Disconnect 02	Disconnect Switch	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-180002	Tank 02 Booster Transformer	Transformer	Tank 02 Booster Station Site	Tank 02 Booster Electrical (ELD-000013)
ELD-210221	Tank 02 Booster Pump 01	Centrifugal Pump Vertical	Tank 02 Booster Station Site	Tank 02 Booster Building (ELD-761004)
ELD-210222	Tank 02 Booster Pump 02	Centrifugal Pump Vertical	Tank 02 Booster Station Site	Tank 02 Booster Building (ELD-761004)
ELD-310221	Tank 02 Booster Pump 1 Motor	Motor Horizontal AC	Tank 02 Booster Station Site	Tank 02 Booster Pump 01 (ELD-210221)
ELD-310222	Tank 02 Booster Pump 02 Motor	Motor Horizontal AC	Tank 02 Booster Station Site	Tank 02 Booster Pump 02 (ELD-210222)
ELD-600004	Tank 02 Booster Piping System	Piping System	Tank 02 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-761004	Tank 02 Booster Building	Building	Tank 02 Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-784018	Booster Pump 01 Check Valve	Check Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-784019	Booster Pump 02 Check Valve	Check Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-787001	Booster Pump 01 Suction Isolation Valve	Butterfly Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-787002	Booster Pump 01 Discharge Isolation Valve	Butterfly Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-787003	Booster Pump 02 Suction Isolation Valve	Butterfly Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-787004	Booster Pump 02 Discharge Isolation Valve	Butterfly Valve	Tank 02 Booster Station Site	Tank 02 Booster Piping System (ELD-600004)
ELD-800002A	Tank 02A	Hydro-Pneumatic Tank	Tank 02 Booster Station Site	Tank 02 Booster Instrumentation (ELD-000014)
ELD-910014	Tank 02 Bldg Heater	Heater	Tank 02 Booster Station Site	Tank 02 Booster Building (ELD-761004)
ELD-913018	Tank 02 Bldg Exhaust Fan	Exhaust Fan	Tank 02 Booster Station Site	Tank 02 Booster Building (ELD-761004)
ELD-951014	Tank 02 Bldg Fire Extinguisher	Fire Extinguisher	Tank 02 Booster Station Site	Tank 02 Booster Building (ELD-761004)

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset
<b>Torreon Booster Station Site</b>				
ELD-000017	Torreon Booster Electrical	Electrical	Torreon Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-000018	Torreon Booster Instrumentation	Instrumentation	Torreon Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-022030	Inlet Pressure Transducer	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-022031	Discharge Pressure Transducer	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-022223	Torreon Booster Intake PIT	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-022224	Torreon Booster Discharge PIT	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-022225	Torreon Desander Intake PIT	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-022226	Torreon Desander Discharge PIT	Pressure Transmitters	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-051026	Torreon Flow Meter	Magnetic Flow Meter	Torreon Booster Station Site	Torreon Booster Instrumentation (ELD-000018)
ELD-090035	Torreon Booster SCADA	Remote Telemetry Unit	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-100010	Booster Pump 01 VFD	Variable Frequency Drive	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-100011	Booster Pump 02 VFD	Variable Frequency Drive	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-122008	Torreon Booster Control Panel	Control Panel	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-124023	Torreon Booster Breaker Panel	Breaker Panel	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-126026	Torreon Main Disconnect	Disconnect Switch	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-171002	Torreon Manual Transfer Switch	Manual Transfer Switch	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-180010	torreon Booster Transformer	Transformer	Torreon Booster Station Site	Torreon Booster Electrical (ELD-000017)
ELD-200004	Torreon Booster Pump 01	Centrifugal Pump Horizontal	Torreon Booster Station Site	Torreon Booster Building (ELD-761005)
ELD-200007	Torreon Booster Pump 02	Centrifugal Pump Horizontal	Torreon Booster Station Site	Torreon Booster Building (ELD-761005)
ELD-310234	Torreon Booster Pump Motor 01	Motor Horizontal AC	Torreon Booster Station Site	Torreon Booster Pump 01 (ELD-200004)
ELD-31035	Torreon Booster Pump Motor 02	Motor Horizontal AC	Torreon Booster Station Site	Torreon Booster Pump 02 (ELD-200007)
ELD-592003	Torreon Desander Unit	Grit Collector	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-600003	Torreon Booster Piping System	Piping System	Torreon Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-761005	Torreon Booster Building	Building	Torreon Booster Station Site	Eldorado Distribution System (ELD-792001)
ELD-784023	Booster Pump 01 Check Valve	Check Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-784024	Booster Pump 02 Check Valve	Check Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787005	Torreon ARSV Isolation Valve 01	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787006	Torreon ARSV Isolation Valve 02	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787007	Booster Pump 01 Suction Isolation Valve	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787008	Booster Pump 01 Discharge Isolation Valve	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787009	Booster Pump 02 Suction Isolation Valve	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787010	Booster Pump 02 Discharge Isolation Valve	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-787011	Header Isolation Valve	Butterfly Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-790002	Torreon Booster Flow Control Valve	Flow Control Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-790075	Torreon Air Relief Valve	Air Relief Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-790076	Torreon Tank Backfill Valve	Flow Control Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-797001	Torreon Main Auto Relief & Surge Valve - ARSV	Pressure Relief Valve	Torreon Booster Station Site	Torreon Booster Piping System (ELD-600003)
ELD-894002	Torreon 1 Ton Gantry Crane	Crane	Torreon Booster Station Site	Torreon Booster Building (ELD-761005)
ELD-910015	Torreon Booster Bldg Heater	Heater	Torreon Booster Station Site	Torreon Booster Building (ELD-761005)
ELD-951015	Torreon Booster Fire Extinguisher	Fire Extinguisher	Torreon Booster Station Site	Torreon Booster Building (ELD-761005)



















































Eldorado Asset List

Printed: 1/7/2016 11:59 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Old Asset #
<b>Tank 01 Site</b>					
ELD-000003	Tank 01 Instrumentation	Instrumentation	Tank 01 Site	Eldorado Distribution System (ELD-792001)	
ELD-000004	Tank 01 Electrical	Electrical	Tank 01 Site	Eldorado Distribution System (ELD-792001)	
ELD-022001	Tank 01 Level Transmitter	Pressure Transmitters	Tank 01 Site	Tank 01 Instrumentation (ELD-000003)	22001
ELD-022002	Tank 01A Level Transmitter	Pressure Transmitters	Tank 01 Site	Tank 01 Instrumentation (ELD-000003)	22002
ELD-090001	Tank 01 SCADA	Remote Telemetry Unit	Tank 01 Site	Eldorado Distribution System (ELD-792001)	90001
ELD-800001	Tank 01	Hydro-Pneumatic Tank	Tank 01 Site	Eldorado Distribution System (ELD-792001)	800001
ELD-800001A	Tank 01A	Hydro-Pneumatic Tank	Tank 01 Site	Eldorado Distribution System (ELD-792001)	800001A
<b>Tank 02 Site</b>					
ELD-000005	Tank 02 Instrumentation	Instrumentation	Tank 02 Site	Eldorado Distribution System (ELD-792001)	
ELD-022003	Tank 02 Level Transmitter	Level Transmitters Bubblers/ Differential Pressure	Tank 02 Site	Tank 02 (ELD-800002)	22003
ELD-022004	Tank 02A Level Transmitter	Level Transmitters Bubblers/ Differential Pressure	Tank 02 Site	Tank 02 Instrumentation (ELD-000005)	22004
ELD-800002	Tank 02	Hydro-Pneumatic Tank	Tank 02 Site	Eldorado Distribution System (ELD-792001)	800002
<b>Tank 03 Site</b>					
ELD-000006	Tank 03 Instrumentation	Instrumentation	Tank 03 Site	Eldorado Distribution System (ELD-792001)	
ELD-000009	Tank 03 Electrical	Electrical	Tank 03 Site	Eldorado Distribution System (ELD-792001)	
ELD-022005	Tank 03 Level Transmitter	Level Transmitters Bubblers/ Differential Pressure	Tank 03 Site	Tank 03 Instrumentation (ELD-000006)	22005
ELD-047001	Tank 03 Solar Panel-Controller	Solar Power Equipment	Tank 03 Site	Tank 03 Electrical (ELD-000009)	47001
ELD-090033	Tank 03 SCADA	Remote Telemetry Unit	Tank 03 Site	Eldorado Distribution System (ELD-792001)	90033
ELD-161033	Tank 03 Power Batteries	Battery	Tank 03 Site	Tank 03 Electrical (ELD-000009)	161033
ELD-800003	Tank 03	Hydro-Pneumatic Tank	Tank 03 Site	Eldorado Distribution System (ELD-792001)	800003
ELD-938001	2-Way Radio Repeater	Equipment	Tank 03 Site	Tank 03 Instrumentation (ELD-000006)	938001
<b>Tank 04 Site</b>					
ELD-000007	Tank 04 Instrumentation	Instrumentation	Tank 04 Site	Eldorado Distribution System (ELD-792001)	
ELD-000010	Tank 04 Electrical	Electrical	Tank 04 Site	Eldorado Distribution System (ELD-792001)	
ELD-022006	Tank 04 Level Transmitter	Level Transmitters Bubblers/ Differential Pressure	Tank 04 Site	Tank 04 Instrumentation (ELD-000007)	22006
ELD-051034	Tank 04 Flow Meter	Magnetic Flow Meter	Tank 04 Site	Tank 04 Instrumentation (ELD-000007)	51034
ELD-090034	Tank 04 SCADA	Remote Telemetry Unit	Tank 04 Site	Tank 04 Electrical (ELD-000010)	90034
ELD-126034	Tank 04 Main Disconnect	Disconnect Switch	Tank 04 Site	Tank 04 Electrical (ELD-000010)	126034
ELD-790001	Tank 04 Flow Control Valve	Flow Control Valve	Tank 04 Site	Eldorado Distribution System (ELD-792001)	790001
ELD-800004	Tank 04	Hydro-Pneumatic Tank	Tank 04 Site	Eldorado Distribution System (ELD-792001)	800004

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
<b>Entry Point 01</b>					
ELD-000048	EP Electrical	Electrical	Entry Point 01		4,000.00
ELD-290016	EP Sodium Hypo Pump	Metering Pump	Entry Point 01	EP Chemical Feed System (ELD-293019)	800
ELD-293019	EP Chemical Feed System	Chemical Feed System	Entry Point 01		2,000.00
ELD-600020	EP Piping System	Piping System	Entry Point 01		15,000.00
ELD-761016	EP Building	Building	Entry Point 01		50,000.00
ELD-761017	EP Chemical Hut	Building	Entry Point 01		50,000.00
ELD-782283	EP Isolation Valve 01	Gate Valve	Entry Point 01	EP Piping System (ELD-600020)	5,000.00
ELD-782284	EP Isolation Valve 02	Gate Valve	Entry Point 01	EP Piping System (ELD-600020)	5,000.00
ELD-784017	EP Check Valve	Check Valve	Entry Point 01	EP Piping System (ELD-600020)	3,000.00
ELD-790074	EP Air Relief Valve	Air Relief Valve	Entry Point 01	EP Piping System (ELD-600020)	500
ELD-792013	EP FCV	Flow Control Valve	Entry Point 01	EP Piping System (ELD-600020)	5,000.00
ELD-792014	EP Cla-Valve	Flow Control Valve	Entry Point 01	EP Piping System (ELD-600020)	5,000.00
ELD-910013	EP Heater	Heater	Entry Point 01	EP Building (ELD-761016)	2,000.00
ELD-913002	EP CL2 Room Vent Fan	Exhaust Fan	Entry Point 01	EP Building (ELD-761016)	500
ELD-951013	EP Fire Extinguisher	Fire Extinguisher	Entry Point 01	EP Building (ELD-761016)	250
ELD-953013	EP Eyewash/Safety Shower	Eyewash/Safety Shower	Entry Point 01	EP Building (ELD-761016)	1,500.00
ELD12405	EP Breaker Panel	Breaker Panel	Entry Point 01	EP Electrical (ELD-000048)	2,000.00
<b>Test Wells</b>					
ELD-685018	Test Well at Well 14	Water Production Well	Test Wells		25,000.00
ELD-685019	Test Well at Well 15	Water Production Well	Test Wells		25,000.00
ELD-685020	La Paz Test Well	Water Production Well	Test Wells		25,000.00
ELD-685021	Altura Test Well	Water Production Well	Test Wells		25,000.00
ELD-685022	Country Store Test Well	Water Production Well	Test Wells		25,000.00
ELD-685023	Trailer Test Wells	Trailer	Test Wells		25,000.00
ELD-685024	4 inch Test Well	Water Production Well	Test Wells		25,000.00
ELD-685025	Camino Valley 1 Test Well	Water Production Well	Test Wells		25,000.00
ELD-685026	Camino Valley 2 Test Well	Water Production Well	Test Wells		25,000.00
ELD-685027	Casa Del Oro and Balsa Test Well	Water Production Well	Test Wells		25,000.00
ELD-685028	Test Well at Well 06	Water Production Well	Test Wells		25,000.00
<b>Well 01 Site</b>			<b>Decomissioned</b>		
ELD-000019	Well 01 Instrumentation	Instrumentation	Well 01 Site		5,000.00
ELD-000033	Well 01 Electrical	Electrical	Well 01 Site		4,000.00
ELD-013004	Well 01 CL02 Room Exhaust Fan	Exhaust Fan	Well 01 Site	Well 01 Building (ELD-761001)	500
ELD-022016	Well 01 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 01 Site	Well 01 Instrumentation (ELD-000019)	2,000.00
ELD-022021	Well 01 Sub Tank Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 01 Site	Well 01 Instrumentation (ELD-000019)	2,000.00
ELD-051001	Well 01 Flow Meter	Magnetic Flow Meter	Well 01 Site	Well 01 Instrumentation (ELD-000019)	5,000.00
ELD-123001	Well 01 Control Panel 01	Control Panel	Well 01 Site	Well 01 Electrical (ELD-000033)	20,000.00
ELD-123003	Well 01 Control Panel 02	Control Panel	Well 01 Site	Well 01 Electrical (ELD-000033)	20,000.00
ELD-124011	Well 01 Breaker Panel--Inside	Breaker Panel	Well 01 Site	Well 01 Electrical (ELD-000033)	2,000.00
ELD-124012	Well 01 Breaker Panel--Outside	Breaker Panel	Well 01 Site	Well 01 Electrical (ELD-000033)	2,000.00
ELD-126001	Well 01 Main Disconnect Switch	Disconnect Switch	Well 01 Site	Well 01 Electrical (ELD-000033)	1,000.00
ELD-181001	Well 01 Transformer	Transformer	Well 01 Site	Well 01 Electrical (ELD-000033)	10,000.00
ELD-211001	Well 01 Submersible Pump	Submersible Pump	Well 01 Site	Well 01 (ELD-685001)	15,000.00
ELD-211241	Well 01 Booster Pump 01	Submersible Pump	Well 01 Site		15,000.00
ELD-211242	Well 01 Booster Pump 02	Submersible Pump	Well 01 Site		15,000.00
ELD-293001	Well 01 Chemical Feed System	Chemical Feed System	Well 01 Site		2,000.00
ELD-310005	Well 01 Booster Pump 01 Motor	Motor Horizontal AC	Well 01 Site	Well 01 Booster Pump 01 (ELD-211241)	2,000.00
ELD-310006	Well 01 Booster Pump 02 Motor	Motor Horizontal AC	Well 01 Site	Well 01 Booster Pump 02 (ELD-211242)	2,000.00
ELD-310007	Well 01 Pump Motor	Motor Horizontal AC	Well 01 Site	Well 01 (ELD-685001)	2,000.00
ELD-592001	Well 01 Desander Unit	Grit Collector	Well 01 Site	Well 01 Piping System (ELD-600005)	4,000.00
ELD-600005	Well 01 Piping System	Piping System	Well 01 Site		15,000.00
ELD-685001	Well 01	Water Production Well	Well 01 Site		1,600,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-761001	Well 01 Building	Building	Well 01 Site		50,000.00
ELD-784001	Well 01 Check Valve 01	Check Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	3,000.00
ELD-784002	Well 01 Check Valve 02	Check Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	3,000.00
ELD-790060	Well 01 Air Relief Valve	Air Relief Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	500
ELD-794001	Well 01 Isolation Valve 01	Gate Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	5,000.00
ELD-794002	Well 01 Isolation Valve 02	Gate Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	5,000.00
ELD-794003	Well 01 Isolation Valve 03	Gate Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	5,000.00
ELD-794004	Well 01 Isolation Valve 04	Gate Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	5,000.00
ELD-794005	Well 01 Isolation Valve 05	Gate Valve	Well 01 Site	Well 01 Piping System (ELD-600005)	5,000.00
ELD-801001	Well 01 Booster Sub Tank	Tank	Well 01 Site	Well 01 Chemical Feed System (ELD-293001)	1,000,000.00
ELD-910001	Well 01 Heater	Heater	Well 01 Site	Well 01 Building (ELD-761001)	2,000.00
ELD-915003	Well 01 Air Conditioner	Air Conditioning Unit	Well 01 Site	Well 01 Building (ELD-761001)	5,000.00
ELD-951001	Well 01 Fire Extinguisher	Fire Extinguisher	Well 01 Site	Well 01 Building (ELD-761001)	250
ELD-953002	Well 01 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 01 Site	Well 01 Building (ELD-761001)	1,500.00
TANK-239001	Well 01 Water Storage Tank	Tank	Well 01 Site		1,000,000.00
<b>Well 02 Site</b>					
ELD-000000	Well 02 Instrumentation	Instrumentation	Well 02 Site		5,000.00
ELD-000001	Well 02 Electrical	Electrical	Well 02 Site		4,000.00
ELD-022000	Well 02 Hypo Level Transducer	Level Transducer	Well 02 Site	Well 02 Instrumentation (ELD-000000)	750
ELD-022007	Well 02 Pressure Transmitter	Pressure Transmitters	Well 02 Site	Well 02 Instrumentation (ELD-000000)	2,000.00
ELD-022017	Well 02 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 02 Site	Well 02 Instrumentation (ELD-000000)	2,000.00
ELD-051003	Well 02 Flow Meter	Magnetic Flow Meter	Well 02 Site	Well 02 Instrumentation (ELD-000000)	5,000.00
ELD-090002	Well 02 SCADA	Remote Telemetry Unit	Well 02 Site	Well 02 Electrical (ELD-000001)	4,000.00
ELD-100002	Well 02 VFD	Variable Frequency Drive	Well 02 Site	Well 02 Electrical (ELD-000001)	10,000.00
ELD-123002	Well 02 Control Panel	Control Panel	Well 02 Site	Well 02 Electrical (ELD-000001)	20,000.00
ELD-124002	Well 02 Breaker Panel - PP2	Breaker Panel	Well 02 Site	Well 02 Electrical (ELD-000001)	2,000.00
ELD-124005	Well 02 Breaker Panel - LP	Breaker Panel	Well 02 Site	Well 02 Electrical (ELD-000001)	2,000.00
ELD-126002	Well 02 Main Disconnect Switch	Disconnect Switch	Well 02 Site	Well 02 Electrical (ELD-000001)	1,000.00
ELD-126003	Well 02 VFD Disconnect Switch	Disconnect Switch	Well 02 Site	Well 02 Electrical (ELD-000001)	1,000.00
ELD-126004	Well 02 LP-Breaker Panel Disconnect Switch	Disconnect Switch	Well 02 Site	Well 02 Electrical (ELD-000001)	1,000.00
ELD-160032	Well 02 Cathodic Protection	Cathodic Protection Devices	Well 02 Site	Well 02 Electrical (ELD-000001)	20,000.00
ELD-181002	Well 02 Transformer	Transformer	Well 02 Site	Well 02 Electrical (ELD-000001)	10,000.00
ELD-211002	Well 02 Submersible Pump	Submersible Pump	Well 02 Site	Well 02 (ELD-685002)	15,000.00
ELD-290002	Well 02 Sodium Hypo Pump	Metering Pump	Well 02 Site	Well 02 Chemical Feed System (ELD-293002)	800
ELD-293002	Well 02 Chemical Feed System	Chemical Feed System	Well 02 Site		2,000.00
ELD-310011	Well 02 Pump Motor	Motor Horizontal AC	Well 02 Site	Well 02 (ELD-685002)	2,000.00
ELD-592002	Well 02 Desander Unit	Grit Collector	Well 02 Site	Well 02 Piping System (ELD-600000)	4,000.00
ELD-600000	Well 02 Piping System	Piping System	Well 02 Site		15,000.00
ELD-685002	Well 02	Water Production Well	Well 02 Site		1,600,000.00
ELD-761000	Well 02 Building	Building	Well 02 Site		50,000.00
ELD-784000	Well 02 Check Valve	Check Valve	Well 02 Site	Well 02 Piping System (ELD-600000)	3,000.00
ELD-790000	Well 02 Air Relief Valve	Air Relief Valve	Well 02 Site	Well 02 Piping System (ELD-600000)	500
ELD-794000	Well 02 Discharge Isolation Valve	Ball Valve	Well 02 Site	Well 02 Piping System (ELD-600000)	2,000.00
ELD-910000	Well 02 Heater	Heater	Well 02 Site	Well 02 Building (ELD-761000)	2,000.00
ELD-913003	Well 02 CL02 Room Exhaust Fan	Exhaust Fan	Well 02 Site	Well 02 Building (ELD-761000)	500
ELD-915000	Well 02 Air Conditioner	Air Conditioning Unit	Well 02 Site	Well 02 Building (ELD-761000)	5,000.00
ELD-951002	Well 02 Fire Extinguisher	Fire Extinguisher	Well 02 Site	Well 02 Building (ELD-761000)	250
ELD-953000	Well 02 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 02 Site	Well 02 Building (ELD-761000)	1,500.00
<b>Well 03 Site</b>					
<b>Decommissioned</b>					
ELD-000020	Well 03 Instrumentation	Instrumentation	Well 03 Site		5,000.00
ELD-000034	Well 03 Electrical	Electrical	Well 03 Site		4,000.00
ELD-110003	Well 03 MCC	Motor Control Center	Well 03 Site	Well 03 Electrical (ELD-000034)	20,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-124003	Well 03 Breaker Panel	Breaker Panel	Well 03 Site	Well 03 Electrical (ELD-000034)	2,000.00
ELD-211003	Well 03 Submersible Pump	Submersible Pump	Well 03 Site	Well 03 (ELD-685003)	15,000.00
ELD-293003	Well 03 Chemical Feed System	Chemical Feed System	Well 03 Site		2,000.00
ELD-310015	Well 03 Pump Motor	Motor Horizontal AC	Well 03 Site	Well 03 (ELD-685003)	2,000.00
ELD-600006	Well 03 Piping System	Piping System	Well 03 Site		
ELD-685003	Well 03	Water Production Well	Well 03 Site		1,600,000.00
ELD-761006	Well 03 Building	Building	Well 03 Site		50,000.00
ELD-784003	Well 03 Check Valve	Check Valve	Well 03 Site	Well 03 Piping System (ELD-600006)	3,000.00
ELD-790061	Well 03 Air Relief Valve	Air Relief Valve	Well 03 Site	Well 03 Piping System (ELD-600006)	500
ELD-794001	Well 03 Discharge Isolation Valve	Ball Valve	Well 03 Site	Well 03 Piping System (ELD-600006)	2,000.00
ELD-910003	Well 03 Heater	Heater	Well 03 Site	Well 03 Building (ELD-761006)	2,000.00
ELD-951003	Well 03 Fire Extinguisher	Fire Extinguisher	Well 03 Site	Well 03 Building (ELD-761006)	250
ELD-953003	Well 03 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 03 Site	Well 03 Building (ELD-761006)	1,500.00
<b>Well 04 Site</b>			<b>Decomissioned</b>		
ELD-000021	Well 04 Instrumentation	Instrumentation	Well 04 Site		5,000.00
ELD-000035	Well 04 Electrical	Electrical	Well 04 Site		4,000.00
ELD-052004	Well 04 Flow Meter	Flow Meter	Well 04 Site	Well 04 Instrumentation (ELD-000021)	1,000.00
ELD-124004	Well 04 Breaker Panel	Breaker Panel	Well 04 Site	Well 04 Electrical (ELD-000035)	2,000.00
ELD-211004	Well 04 Submersible Pump	Submersible Pump	Well 04 Site	Well 04 (ELD-685004)	15,000.00
ELD-293004	Well 04 Chemical Feed System	Chemical Feed System	Well 04 Site		2,000.00
ELD-310016	Well 04 Pump Motor	Motor Horizontal AC	Well 04 Site	Well 04 (ELD-685004)	2,000.00
ELD-600007	Well 04 Piping System	Piping System	Well 04 Site		15,000.00
ELD-685004	Well 04	Water Production Well	Well 04 Site		1,600,000.00
ELD-761007	Well 04 Building	Building	Well 04 Site		50,000.00
ELD-784004	Well 04 Check Valve	Check Valve	Well 04 Site	Well 04 Piping System (ELD-600007)	3,000.00
ELD-790062	Well 04 Air Relief Valve	Air Relief Valve	Well 04 Site	Well 04 Piping System (ELD-600007)	500
ELD-794002	Well 04 Discharge Isolation Valve	Ball Valve	Well 04 Site	Well 04 Piping System (ELD-600007)	2,000.00
ELD-910004	Well 04 Heater	Heater	Well 04 Site	Well 04 Building (ELD-761007)	2,000.00
ELD-951004	Well 04 Fire Extinguisher	Fire Extinguisher	Well 04 Site	Well 04 Building (ELD-761007)	250
ELD-953004	Well 04 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 04 Site	Well 04 Building (ELD-761007)	1,500.00
<b>Well 05 Site</b>			<b>Decomissioned</b>		
ELD-000022	Well 05 Instrumentation	Instrumentation	Well 05 Site		5,000.00
ELD-000036	Well 05 Electrical	Electrical	Well 05 Site		4,000.00
ELD-051205	Well 05 Flow Meter	Magnetic Flow Meter	Well 05 Site	Well 05 Instrumentation (ELD-000022)	5,000.00
ELD-211005	Well 05 Submersible Pump	Submersible Pump	Well 05 Site	Well 05 (ELD-685005)	15,000.00
ELD-293005	Well 05 Chemical Feed System	Chemical Feed System	Well 05 Site		2,000.00
ELD-310017	Well 05 Pump Motor	Motor Horizontal AC	Well 05 Site	Well 05 (ELD-685005)	2,000.00
ELD-600008	Well 05 Piping System	Piping System	Well 05 Site		15,000.00
ELD-685005	Well 05	Water Production Well	Well 05 Site		1,600,000.00
ELD-761008	Well 05 Building	Building	Well 05 Site		50,000.00
ELD-784005	Well 05 Check Valve	Check Valve	Well 05 Site	Well 05 Piping System (ELD-600008)	3,000.00
ELD-790063	Well 05 Air Relief Valve	Air Relief Valve	Well 05 Site	Well 05 Piping System (ELD-600008)	500
ELD-794003	Well 05 Discharge Isolation Valve	Ball Valve	Well 05 Site	Well 05 Piping System (ELD-600008)	2,000.00
ELD-910005	Well 05 Heater	Heater	Well 05 Site	Well 05 Building (ELD-761008)	2,000.00
ELD-951005	Well 05 Fire Extinguisher	Fire Extinguisher	Well 05 Site	Well 05 Building (ELD-761008)	250
ELD-953005	Well 05 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 05 Site	Well 05 Building (ELD-761008)	1,500.00
<b>Well 06 Site</b>					
ELD-000002	Well 06 Instrumentation	Instrumentation	Well 06 Site		5,000.00
ELD-000037	Well 06 Electrical	Electrical	Well 06 Site		4,000.00
ELD-022008	Well 06 Pressure Transmitter	Pressure Transmitters	Well 06 Site	Well 06 Instrumentation (ELD-000002)	2,000.00
ELD-022018	Well 06 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 06 Site	Well 06 Instrumentation (ELD-000002)	2,000.00
ELD-051006	Well 06 Flow Meter	Magnetic Flow Meter	Well 06 Site	Well 06 Instrumentation (ELD-000002)	5,000.00
ELD-090006	Well 06 SCADA	Remote Telemetry Unit	Well 06 Site	Well 06 Electrical (ELD-000037)	4,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-100004	Well 06 VFD	Variable Frequency Drive	Well 06 Site	Well 06 Electrical (ELD-000037)	10,000.00
ELD-123006	Well 06 Control Panel	Control Panel	Well 06 Site	Well 06 Electrical (ELD-000037)	20,000.00
ELD-124006	Well 06 Breaker Panel	Breaker Panel	Well 06 Site	Well 06 Electrical (ELD-000037)	2,000.00
ELD-126006	Well 06 Main Disconnect Switch	Disconnect Switch	Well 06 Site	Well 06 Electrical (ELD-000037)	1,000.00
ELD-180001	Well 06 Step Down Transformer	Transformer	Well 06 Site	Well 06 Electrical (ELD-000037)	10,000.00
ELD-211006	Well 06 Submersible Pump	Submersible Pump	Well 06 Site	Well 06 (ELD-685006)	15,000.00
ELD-290006	Well 06 Sodium Hypo Pump	Metering Pump	Well 06 Site	Well 06 Chemical Feed System (ELD-293006)	800
ELD-293006	Well 06 Chemical Feed System	Chemical Feed System	Well 06 Site		2,000.00
ELD-310018	Well 06 Pump Motor	Motor Horizontal AC	Well 06 Site	Well 06 (ELD-685006)	2,000.00
ELD-600009	Well 06 Piping System	Piping System	Well 06 Site		15,000.00
ELD-685006	Well 06	Water Production Well	Well 06 Site		1,600,000.00
ELD-761009	Well 06 Building	Building	Well 06 Site		50,000.00
ELD-784006	Well 06 Check Valve	Check Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	3,000.00
ELD-790064	Well 06 Air Relief Valve	Air Relief Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	500
ELD-792011	Well 06 Flow Control Valve	Flow Control Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	5,000.00
ELD-794004	Well 06 Isolation Valve 01	Ball Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	2,000.00
ELD-794005	Well 06 Isolation Valve 02	Ball Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	2,000.00
ELD-794006	Well 06 Isolation Valve 03	Ball Valve	Well 06 Site	Well 06 Piping System (ELD-600009)	2,000.00
ELD-910006	Well 06 Heater	Heater	Well 06 Site	Well 06 Building (ELD-761009)	2,000.00
ELD-913006	Well 06 CL2 Room Vent Fan	Exhaust Fan	Well 06 Site	Well 06 Building (ELD-761009)	500
ELD-951006	Well 06 Fire Extinguisher	Fire Extinguisher	Well 06 Site	Well 06 Building (ELD-761009)	250
ELD-953006	Well 06 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 06 Site	Well 06 Building (ELD-761009)	1,500.00
<b>Well 07 Site</b>					
ELD-000023	Well 07 Instrumentation	Instrumentation	Well 07 Site		5,000.00
ELD-000038	Well 07 Electrical	Electrical	Well 07 Site		4,000.00
ELD-022009	Well 07 Pressure Transmitter A	Pressure Transmitters	Well 07 Site	Well 07 Instrumentation (ELD-000023)	2,000.00
ELD-022019	Well 07 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 07 Site	Well 07 Instrumentation (ELD-000023)	2,000.00
ELD-051007	Well 07 Flow Meter	Magnetic Flow Meter	Well 07 Site	Well 07 Instrumentation (ELD-000023)	5,000.00
ELD-090007	Well 07 SCADA	Remote Telemetry Unit	Well 07 Site	Well 07 Electrical (ELD-000038)	4,000.00
ELD-122007	Well 07 Pump Control Panel	Control Panel	Well 07 Site	Well 07 Electrical (ELD-000038)	20,000.00
ELD-126007	Well 07 Main Disconnect Switch	Disconnect Switch	Well 07 Site	Well 07 Electrical (ELD-000038)	1,000.00
ELD-126008	Well 07 Disconnect Switch 02	Disconnect Switch	Well 07 Site	Well 07 Electrical (ELD-000038)	1,000.00
ELD-126009	Well 07 Disconnect Switch 03	Disconnect Switch	Well 07 Site	Well 07 Electrical (ELD-000038)	1,000.00
ELD-211007	Well 07 Submersible Pump	Submersible Pump	Well 07 Site	Well 07 (ELD-685007)	15,000.00
ELD-290007	Well 07 Sodium Hypo Pump	Metering Pump	Well 07 Site	Well 07 Chemical Feed System (ELD-293007)	800
ELD-293007	Well 07 Chemical Feed System	Chemical Feed System	Well 07 Site		2,000.00
ELD-310019	Well 07 Pump Motor	Motor Horizontal AC	Well 07 Site	Well 07 (ELD-685007)	2,000.00
ELD-600010	Well 07 Piping System	Piping System	Well 07 Site		15,000.00
ELD-685007	Well 07	Water Production Well	Well 07 Site		1,600,000.00
ELD-761010	Well 07 Building	Building	Well 07 Site		50,000.00
ELD-784007	Well 07 Check Valve	Check Valve	Well 07 Site	Well 07 Piping System (ELD-600010)	3,000.00
ELD-790065	Well 07 Air Relief Valve	Air Relief Valve	Well 07 Site	Well 07 Piping System (ELD-600010)	500
ELD-794007	Well 07 Isolation Valve 01	Ball Valve	Well 07 Site	Well 07 Piping System (ELD-600010)	2,000.00
ELD-794008	Well 07 Isolation Valve 02	Ball Valve	Well 07 Site	Well 07 Piping System (ELD-600010)	2,000.00
ELD-794009	Well 07 Isolation Valve 03	Ball Valve	Well 07 Site	Well 07 Piping System (ELD-600010)	2,000.00
ELD-910007	Well 07 Heater	Heater	Well 07 Site	Well 07 Building (ELD-761010)	2,000.00
ELD-913007	Well 07 CL2 Room Vent Fan	Exhaust Fan	Well 07 Site	Well 07 Building (ELD-761010)	500
ELD-953007	Well 07 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 07 Site	Well 07 Building (ELD-761010)	1,500.00
ELD951007	Well 07 Fire Extinguisher	Fire Extinguisher	Well 07 Site	Well 07 Building (ELD-761010)	250
<b>Well 08 Site</b>					
ELD-000024	Well 08 Instrumentation	Instrumentation	Well 08 Site		5,000.00
ELD-000039	Well 08 Electrical	Electrical	Well 08 Site		4,000.00
ELD-022020	Well 08 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 08 Site	Well 08 Instrumentation (ELD-000024)	2,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-022029	Well 08 Pressure Transducer	Pressure Transmitters	Well 08 Site	Well 08 Instrumentation (ELD-000024)	2,000.00
ELD-051008	Well 08 Flow Meter	Magnetic Flow Meter	Well 08 Site	Well 08 Instrumentation (ELD-000024)	5,000.00
ELD-090008	Well 08 SCADA	Remote Telemetry Unit	Well 08 Site	Well 08 Electrical (ELD-000039)	4,000.00
ELD-123007	Well 08 Control Panel - W8CP	Control Panel	Well 08 Site	Well 08 Electrical (ELD-000039)	20,000.00
ELD-123008	Dig Pump Control Panel	Control Panel	Well 08 Site	Well 08 Electrical (ELD-000039)	20,000.00
ELD-124008	Well 08 Breaker Panel	Breaker Panel	Well 08 Site	Well 08 Electrical (ELD-000039)	2,000.00
ELD-126010	Well 08 Main Disconnect Switch	Disconnect Switch	Well 08 Site	Well 08 Electrical (ELD-000039)	1,000.00
ELD-126011	Well 08 Disconnect Switch 02	Disconnect Switch	Well 08 Site	Well 08 Electrical (ELD-000039)	1,000.00
ELD-180003	Well 08 Step Down Transformer	Transformer	Well 08 Site	Well 08 Electrical (ELD-000039)	10,000.00
ELD-210008	Well 08 Submersible Pump	Submersible Pump	Well 08 Site	Well 08 (ELD-685008)	15,000.00
ELD-290008	Well 08 Sodium Hypo Pump	Metering Pump	Well 08 Site	Well 08 Chemical Feed System (ELD-293008)	800
ELD-293008	Well 08 Chemical Feed System	Chemical Feed System	Well 08 Site		2,000.00
ELD-310020	Well 08 Pump Motor	Motor Horizontal AC	Well 08 Site	Well 08 (ELD-685008)	2,000.00
ELD-600011	Well 08 Piping System	Piping System	Well 08 Site		15,000.00
ELD-685008	Well 08	Water Production Well	Well 08 Site		1,600,000.00
ELD-761011	Well 08 Building	Building	Well 08 Site		50,000.00
ELD-784008	Well 08 Check Valve	Check Valve	Well 08 Site	Well 08 Piping System (ELD-600011)	3,000.00
ELD-790066	Well 08 Air Relief Valve	Air Relief Valve	Well 08 Site	Well 08 Piping System (ELD-600011)	500
ELD-794010	Well 08 Discharge Isolation Valve	Ball Valve	Well 08 Site	Well 08 Piping System (ELD-600011)	2,000.00
ELD-910008	Well 08 Heater	Heater	Well 08 Site	Well 08 Building (ELD-761011)	2,000.00
ELD-913008	Well 08 CL2 Room Vent Fan	Exhaust Fan	Well 08 Site	Well 08 Building (ELD-761011)	500
ELD-951008	Well 08 Fire Extinguisher	Fire Extinguisher	Well 08 Site	Well 08 Building (ELD-761011)	250
ELD-953008	Well 08 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 08 Site	Well 08 Building (ELD-761011)	1,500.00
<b>Well 09 Site</b>					
ELD-000025	Well 09 Instrumentation	Instrumentation	Well 09 Site		5,000.00
ELD-000040	Well 09 Electrical	Electrical	Well 09 Site		4,000.00
ELD-022011	Booster 9 Discharge PIT	Pressure Transmitters	Well 09 Site	Well 09 Instrumentation (ELD-000025)	2,000.00
ELD-022012	Booster 9 Intake PIT	Pressure Transmitters	Well 09 Site	Well 09 Instrumentation (ELD-000025)	2,000.00
ELD-022022	Well 09 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 09 Site	Well 09 Instrumentation (ELD-000025)	2,000.00
ELD-022233	Well 09 Sub Tank Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 09 Site	Well 09 Instrumentation (ELD-000025)	2,000.00
ELD-051009	Well 09 Flow Meter	Magnetic Flow Meter	Well 09 Site	Well 09 Instrumentation (ELD-000025)	5,000.00
ELD-090009	Well 09 SCADA	Remote Telemetry Unit	Well 09 Site	Well 09 Electrical (ELD-000040)	4,000.00
ELD-110004	Well 09 MCC	Motor Control Center	Well 09 Site	Well 09 Electrical (ELD-000040)	20,000.00
ELD-123009	Well 09 Control Panel - W9CP	Control Panel	Well 09 Site	Well 09 Electrical (ELD-000040)	20,000.00
ELD-124009	Well 09 Breaker Panel	Breaker Panel	Well 09 Site	Well 09 Electrical (ELD-000040)	2,000.00
ELD-180004	Well 09 Step Down Transformer	Transformer	Well 09 Site	Well 09 Electrical (ELD-000040)	10,000.00
ELD-200005	Well 09 Booster Pump 1	Centrifugal Pump Horizontal	Well 09 Site		5,000.00
ELD-200006	Well 09 Booster Pump 2	Centrifugal Pump Horizontal	Well 09 Site		5,000.00
ELD-211009	Well 09 Submersible Pump	Submersible Pump	Well 09 Site	Well 09-B (ELD-685009B)	15,000.00
ELD-239009	Well 09 Water Storage Tank	Tank	Well 09 Site		1,000,000.00
ELD-290009	Well 09 Sodium Hypo Pump	Metering Pump	Well 09 Site	Well 09 Chemical Feed System (ELD-293009)	800
ELD-293009	Well 09 Chemical Feed System	Chemical Feed System	Well 09 Site		2,000.00
ELD-310003	Well 09 Booster Pump Motor 1	Motor Horizontal AC	Well 09 Site	Well 09 Booster Pump 1 (ELD-200005)	2,000.00
ELD-310004	Well 09 Booster Pump Motor 2	Motor Horizontal AC	Well 09 Site	Well 09 Booster Pump 2 (ELD-200006)	2,000.00
ELD-310021	Well 09 Pump Motor	Motor Horizontal AC	Well 09 Site	Well 09-B (ELD-685009B)	2,000.00
ELD-600012	Well 09 Piping System	Piping System	Well 09 Site		15,000.00
ELD-685009A	Well 09-A	Water Production Well	Well 09 Site		1,600,000.00
ELD-685009B	Well 09-B	Water Production Well	Well 09 Site		1,600,000.00
ELD-761012	Well 09 Building	Building	Well 09 Site		50,000.00
ELD-777054	PRV Well 09 Hydrant	Structure	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-777057	Well 09 Valve Vault	Valve Vault	Well 09 Site		10,000.00
ELD-782269	PRV Isolation Valve 01	Gate Valve	Well 09 Site	Well 09 Valve Vault (ELD-777057)	5,000.00
ELD-782270	PRV Isolation Valve 02	Gate Valve	Well 09 Site	Well 09 Valve Vault (ELD-777057)	5,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-782271	Well 09 Isolation Valve 01	Gate Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-782272	Well 09 Isolation Valve 02	Gate Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-782273	Well 09 Isolation Valve 03	Gate Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-782274	Well 09 Isolation Valve 04	Gate Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-783030	PRV Well 09 Hydrant	Pressure Relief Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	500
ELD-784009	Well 09 Check Valve	Check Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	3,000.00
ELD-795001	Well 09 FCV- Bypass Valve	Flow Control Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-795002	Well 09 FCV-Recirc Valve	Flow Control Valve	Well 09 Site	Well 09 Piping System (ELD-600012)	5,000.00
ELD-796009	Well 09 PRV	Pressure Relief Valve	Well 09 Site	Well 09 Valve Vault (ELD-777057)	500
ELD-801002	Well 09 Sub Tank	Tank	Well 09 Site	Well 09 Chemical Feed System (ELD-293009)	1,000,000.00
ELD-910009	Well 09 Heater	Heater	Well 09 Site	Well 09 Building (ELD-761012)	2,000.00
ELD-913009	Well 09 CL2 Room Vent Fan	Exhaust Fan	Well 09 Site	Well 09 Building (ELD-761012)	500
ELD-913010	Well 09 Exhaust Fan 01	Exhaust Fan	Well 09 Site	Well 09 Building (ELD-761012)	500
ELD-951009	Well 09 Fire Extinguisher	Fire Extinguisher	Well 09 Site	Well 09 Building (ELD-761012)	250
ELD-953009	Well 09 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 09 Site	Well 09 Building (ELD-761012)	1,500.00
<b>Well 10 Site</b>					
ELD-000026	Well 10 Instrumentation	Instrumentation	Well 10 Site		5,000.00
ELD-000041	Well 10 Electrical	Electrical	Well 10 Site		4,000.00
ELD-022023	Well 10 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 10 Site	Well 10 Instrumentation (ELD-000026)	2,000.00
ELD-051010	Well 10 Flow Meter	Magnetic Flow Meter	Well 10 Site	Well 10 Instrumentation (ELD-000026)	5,000.00
ELD-090010	Well 10 SCADA	Remote Telemetry Unit	Well 10 Site	Well 10 Electrical (ELD-000041)	4,000.00
ELD-123010	Well 10 Control Panel - W10CP	Control Panel	Well 10 Site	Well 10 Electrical (ELD-000041)	20,000.00
ELD-124010	Well 10 Breaker Panel	Breaker Panel	Well 10 Site	Well 10 Electrical (ELD-000041)	2,000.00
ELD-211010	Well 10 Submersible Pump	Submersible Pump	Well 10 Site	Well 10 (ELD-685010)	15,000.00
ELD-293010	Well 10 Chemical Feed System	Chemical Feed System	Well 10 Site		2,000.00
ELD-310008	Well 10 Pump Motor	Motor Horizontal AC	Well 10 Site	Well 10 (ELD-685010)	2,000.00
ELD-600013	Well 10 Piping System	Piping System	Well 10 Site		15,000.00
ELD-685010	Well 10	Water Production Well	Well 10 Site		1,600,000.00
ELD-784010	Well 10 Check Valve	Check Valve	Well 10 Site	Well 10 Piping System (ELD-600013)	3,000.00
ELD-790067	Well 10 Air Relief Valve	Air Relief Valve	Well 10 Site	Well 10 Piping System (ELD-600013)	500
ELD-794011	Well 10 Discharge Isolation Valve	Ball Valve	Well 10 Site	Well 10 Piping System (ELD-600013)	2,000.00
<b>Well 12 Site</b>					
<b>Decomissioned</b>					
ELD-000027	Well 12 Instrumentation	Instrumentation	Well 12 Site		5,000.00
ELD-000042	Well 12 Electrical	Electrical	Well 12 Site		4,000.00
ELD-052012	Well 12 Flow Meter	Flow Meter	Well 12 Site	Well 12 Instrumentation (ELD-000027)	1,000.00
ELD-090011	Well 12 SCADA	Remote Telemetry Unit	Well 12 Site	Well 12 Electrical (ELD-000042)	4,000.00
ELD-123011	Well 12 Control Panel	Control Panel	Well 12 Site	Well 12 Electrical (ELD-000042)	20,000.00
ELD-124013	Well 12 Breaker Panel	Breaker Panel	Well 12 Site	Well 12 Electrical (ELD-000042)	2,000.00
ELD-211012	Well 12 Submersible Pump	Submersible Pump	Well 12 Site	Well 12 (ELD-685012)	15,000.00
ELD-293012	Well 12 Chemical Feed System	Chemical Feed System	Well 12 Site		2,000.00
ELD-310009	Well 12 Pump Motor	Motor Horizontal AC	Well 12 Site	Well 12 (ELD-685012)	
ELD-600014	Well 12 Piping System	Piping System	Well 12 Site		15,000.00
ELD-685012	Well 12	Water Production Well	Well 12 Site		1,600,000.00
ELD-784011	Well 12 Check Valve	Check Valve	Well 12 Site	Well 12 Piping System (ELD-600014)	3,000.00
ELD-790068	Well 12 Air Relief Valve	Air Relief Valve	Well 12 Site	Well 12 Piping System (ELD-600014)	500
ELD-794012	Well 12 Discharge Isolation Valve	Ball Valve	Well 12 Site	Well 12 Piping System (ELD-600014)	
<b>Well 13 Site</b>					
<b>Decomissioned</b>					
ELD-000028	Well 13 Instrumentation	Instrumentation	Well 13 Site		5,000.00
ELD-000043	Well 13 Electrical	Electrical	Well 13 Site		4,000.00
ELD-022013	Well 13 Pressure Transmitter	Pressure Transmitters	Well 13 Site	Well 13 Instrumentation (ELD-000028)	2,000.00
ELD-022024	Well 13 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 13 Site	Well 13 Instrumentation (ELD-000028)	2,000.00
ELD-051013	Well 13 Flow Meter	Magnetic Flow Meter	Well 13 Site	Well 13 Instrumentation (ELD-000028)	5,000.00
ELD-090013	Well 13 SCADA	Remote Telemetry Unit	Well 13 Site	Well 13 Electrical (ELD-000043)	4,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-100013	Well 13 VFD	Variable Frequency Drive	Well 13 Site	Well 13 Electrical (ELD-000043)	10,000.00
ELD-123012	Well 13 Control Panel 01	Control Panel	Well 13 Site	Well 13 Electrical (ELD-000043)	20,000.00
ELD-123013	Well 13 Control Panel 02	Control Panel	Well 13 Site	Well 13 Electrical (ELD-000043)	20,000.00
ELD-124001	Well 13 Breaker Panel	Breaker Panel	Well 13 Site	Well 13 Electrical (ELD-000043)	2,000.00
ELD-126132	Well 13 Main Disconnect Switch	Disconnect Switch	Well 13 Site	Well 13 Electrical (ELD-000043)	1,000.00
ELD-126133	Well 13 Disconnect Switch 02	Disconnect Switch	Well 13 Site	Well 13 Electrical (ELD-000043)	1,000.00
ELD-126134	Well 13 Disconnect Switch 03	Disconnect Switch	Well 13 Site	Well 13 Electrical (ELD-000043)	1,000.00
ELD-180005	Well 13 Step Down Transformer	Transformer	Well 13 Site	Well 13 Electrical (ELD-000043)	10,000.00
ELD-211013	Well 13 Submersible Pump	Submersible Pump	Well 13 Site	Well 13 (ELD-685013)	15,000.00
ELD-290013	Well 13 Sodium Hypo Pump	Metering Pump	Well 13 Site	Well 13 Chemical Feed System (ELD-293013)	800
ELD-293013	Well 13 Chemical Feed System	Chemical Feed System	Well 13 Site		2,000.00
ELD-310010	Well 13 Pump Motor	Motor Horizontal AC	Well 13 Site	Well 13 (ELD-685013)	2,000.00
ELD-592013	Well 13 Desanding Unit	Grit Collector	Well 13 Site	Well 13 Piping System (ELD-600015)	4,000.00
ELD-600015	Well 13 Piping System	Piping System	Well 13 Site		15,000.00
ELD-685013	Well 13	Water Production Well	Well 13 Site		1,600,000.00
ELD-761013	Well 13 Building	Building	Well 13 Site		50,000.00
ELD-782275	Well 13 Isolation Valve 01	Gate Valve	Well 13 Site	Well 13 Piping System (ELD-600015)	5,000.00
ELD-782276	Well 13 Isolation Valve 02	Gate Valve	Well 13 Site	Well 13 Piping System (ELD-600015)	5,000.00
ELD-784012	Well 13 Check Valve	Check Valve	Well 13 Site	Well 13 Piping System (ELD-600015)	3,000.00
ELD-790069	Well 13 Air Relief Valve	Air Relief Valve	Well 13 Site	Well 13 Piping System (ELD-600015)	500
ELD-792012	Well 13 FCV	Flow Control Valve	Well 13 Site	Well 13 Piping System (ELD-600015)	5,000.00
ELD-910010	Well 13 Heater	Heater	Well 13 Site	Well 13 Building (ELD-761013)	2,000.00
ELD-913013	Well 13 CL2 Room Vent Fan	Exhaust Fan	Well 13 Site	Well 13 Building (ELD-761013)	500
ELD-951010	Well 13 Fire Extinguisher	Fire Extinguisher	Well 13 Site	Well 13 Building (ELD-761013)	250
ELD-953010	Well 13 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 13 Site	Well 13 Building (ELD-761013)	1,500.00
PUMP-M-204	zWell 13 Sodium Hypo Pump	Metering Pump	Well 13 Site	Well 13 Chemical Feed System (ELD-293013)	800
<b>Well 14 Site</b>					
ELD-000029	Well 14 Instrumentation	Instrumentation	Well 14 Site		5,000.00
ELD-000044	Well 14 Electrical	Electrical	Well 14 Site		4,000.00
ELD-022014	Well 14 Pressure Transmitter	Pressure Transmitters	Well 14 Site	Well 14 Instrumentation (ELD-000029)	2,000.00
ELD-022025	Well 14 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 14 Site	Well 14 Instrumentation (ELD-000029)	2,000.00
ELD-051014	Well 14 Flow Meter	Magnetic Flow Meter	Well 14 Site	Well 14 Instrumentation (ELD-000029)	5,000.00
ELD-090014	Well 14 SCADA	Remote Telemetry Unit	Well 14 Site	Well 14 Electrical (ELD-000044)	4,000.00
ELD-100014	Well 14 VFD	Variable Frequency Drive	Well 14 Site	Well 14 Electrical (ELD-000044)	10,000.00
ELD-104001	Well 14 Surge Dampner	Surge Dampner	Well 14 Site	Well 14 Electrical (ELD-000044)	2,000.00
ELD-123014	Well 14 Control Panel	Control Panel	Well 14 Site	Well 14 Electrical (ELD-000044)	20,000.00
ELD-124014	Well 14 Breaker Panel	Breaker Panel	Well 14 Site	Well 14 Electrical (ELD-000044)	2,000.00
ELD-126141	Well 14 Main Disconnect	Disconnect Switch	Well 14 Site	Well 14 Electrical (ELD-000044)	1,000.00
ELD-126142	Well 14 Disconnect Switch 02	Disconnect Switch	Well 14 Site	Well 14 Electrical (ELD-000044)	1,000.00
ELD-171014	Well 14 Manual Transfer Switch	Manual Transfer Switch	Well 14 Site	Well 14 Electrical (ELD-000044)	5,000.00
ELD-211014	Well 14 Submersible Pump	Submersible Pump	Well 14 Site	Well 14 (ELD-685014)	15,000.00
ELD-290014	Well 14 Sodium Hypo Pump	Metering Pump	Well 14 Site	Well 14 Chemical Feed System (ELD-293014)	800
ELD-293014	Well 14 Chemical Feed System	Chemical Feed System	Well 14 Site		2,000.00
ELD-310013	Well 14 Pump Motor	Motor Horizontal AC	Well 14 Site	Well 14 (ELD-685014)	2,000.00
ELD-592014	Well 14 Desanding Unit	Grit Collector	Well 14 Site	Well 14 Piping System (ELD-600016)	4,000.00
ELD-600016	Well 14 Piping System	Piping System	Well 14 Site		15,000.00
ELD-685014	Well 14	Water Production Well	Well 14 Site		1,600,000.00
ELD-761014	Well 14 Building	Building	Well 14 Site		50,000.00
ELD-782277	Well 14 Isolation Valve 01	Gate Valve	Well 14 Site	Well 14 Piping System (ELD-600016)	5,000.00
ELD-782278	Well 14 Isolation Valve 02	Gate Valve	Well 14 Site	Well 14 Piping System (ELD-600016)	5,000.00
ELD-784013	Well 14 Check Valve	Check Valve	Well 14 Site	Well 14 Piping System (ELD-600016)	3,000.00
ELD-790070	Well 14 Air Relief Valve	Air Relief Valve	Well 14 Site	Well 14 Piping System (ELD-600016)	500
ELD-910011	Well 14 Heater	Heater	Well 14 Site	Well 14 Building (ELD-761014)	2,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-913014	Well 14 CL2 Room Vent Fan	Exhaust Fan	Well 14 Site	Well 14 Building (ELD-761014)	500
ELD-915014	Well 14 Air Conditioner	Air Conditioning Unit	Well 14 Site	Well 14 Building (ELD-761014)	5,000.00
ELD-951011	Well 14 Fire Extinguisher	Fire Extinguisher	Well 14 Site	Well 14 Building (ELD-761014)	250
ELD-953011	Well 14 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 14 Site	Well 14 Building (ELD-761014)	1,500.00
<b>Well 15 Site</b>					
ELD-000030	Well 15 Instrumentation	Instrumentation	Well 15 Site		5,000.00
ELD-000045	Well 15 Electrical	Electrical	Well 15 Site		4,000.00
ELD-022015	Well 15 Pressure Transmitter	Pressure Transmitters	Well 15 Site	Well 15 Instrumentation (ELD-000030)	2,000.00
ELD-022026	Well 15 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 15 Site	Well 15 Instrumentation (ELD-000030)	2,000.00
ELD-051015	Well 15 Flow Meter	Magnetic Flow Meter	Well 15 Site	Well 15 Instrumentation (ELD-000030)	5,000.00
ELD-090015	Well 15 SCADA	Remote Telemetry Unit	Well 15 Site	Well 15 Electrical (ELD-000045)	4,000.00
ELD-100015	Well 15 VFD	Variable Frequency Drive	Well 15 Site	Well 15 Electrical (ELD-000045)	10,000.00
ELD-104002	Well 15 Surge Dampner	Surge Dampner	Well 15 Site	Well 15 Electrical (ELD-000045)	2,000.00
ELD-110015	Well 15 MCC	Motor Control Center	Well 15 Site	Well 15 Electrical (ELD-000045)	20,000.00
ELD-123015	Well 15 Control Panel	Control Panel	Well 15 Site	Well 15 Electrical (ELD-000045)	20,000.00
ELD-124015	Well 15 Breaker Panel	Breaker Panel	Well 15 Site	Well 15 Electrical (ELD-000045)	2,000.00
ELD-126015	Well 15 Main Disconnect	Disconnect Switch	Well 15 Site	Well 15 Electrical (ELD-000045)	1,000.00
ELD-126143	Well 15 Disconnect Switch 02	Disconnect Switch	Well 15 Site	Well 15 Electrical (ELD-000045)	1,000.00
ELD-171015	Well 15 Manual Transfer Switch	Manual Transfer Switch	Well 15 Site	Well 15 Electrical (ELD-000045)	5,000.00
ELD-211015	Well 15 Submersible Pump	Submersible Pump	Well 15 Site	Well 15 (ELD-685015)	15,000.00
ELD-290015	Well 15 Sodium Hypo Pump	Metering Pump	Well 15 Site	Well 15 Chemical Feed System (ELD-293015)	800
ELD-293015	Well 15 Chemical Feed System	Chemical Feed System	Well 15 Site		2,000.00
ELD-310014	Well 15 Pump Motor	Motor Horizontal AC	Well 15 Site	Well 15 (ELD-685015)	2,000.00
ELD-592015	Well 15 Desanding Unit	Grit Collector	Well 15 Site	Well 15 Piping System (ELD-600017)	4,000.00
ELD-600017	Well 15 Piping System	Piping System	Well 15 Site		15,000.00
ELD-685015	Well 15	Water Production Well	Well 15 Site		1,600,000.00
ELD-761015	Well 15 Building	Building	Well 15 Site		50,000.00
ELD-782279	Well 15 Isolation Valve 01	Gate Valve	Well 15 Site	Well 15 Piping System (ELD-600017)	5,000.00
ELD-782280	Well 15 Isolation Valve 02	Gate Valve	Well 15 Site	Well 15 Piping System (ELD-600017)	5,000.00
ELD-784014	Well 15 Check Valve	Check Valve	Well 15 Site	Well 15 Piping System (ELD-600017)	3,000.00
ELD-790071	Well 15 Air Relief Valve	Air Relief Valve	Well 15 Site	Well 15 Piping System (ELD-600017)	500
ELD-910012	Well 15 Heater	Heater	Well 15 Site	Well 15 Building (ELD-761015)	2,000.00
ELD-913015	Well 15 CL2 Room Vent Fan	Exhaust Fan	Well 15 Site	Well 15 Building (ELD-761015)	500
ELD-915015	Well 15 Air Conditioner	Air Conditioning Unit	Well 15 Site	Well 15 Building (ELD-761015)	5,000.00
ELD-951012	Well 15 Fire Extinguisher	Fire Extinguisher	Well 15 Site	Well 15 Building (ELD-761015)	250
ELD-953012	Well 15 Eyewash/Safety Shower	Eyewash/Safety Shower	Well 15 Site	Well 15 Building (ELD-761015)	1,500.00
<b>Well 17 Site</b>					
ELD-000031	Well 17 Instrumentation	Instrumentation	Well 17 Site		5,000.00
ELD-000046	Well 17 Electrical	Electrical	Well 17 Site		4,000.00
ELD-022027	Well 17 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 17 Site	Well 17 Instrumentation (ELD-000031)	2,000.00
ELD-022034	Well 17 Pressure Transmitter	Pressure Transmitters	Well 17 Site	Well 17 Instrumentation (ELD-000031)	2,000.00
ELD-051017	Well 17 Flow Meter	Magnetic Flow Meter	Well 17 Site	Well 17 Instrumentation (ELD-000031)	5,000.00
ELD-090017	Well 17 SCADA	Remote Telemetry Unit	Well 17 Site	Well 17 Electrical (ELD-000046)	4,000.00
ELD-100003	Well 17 VFD	Variable Frequency Drive	Well 17 Site	Well 17 Electrical (ELD-000046)	10,000.00
ELD-124017	Well 17 Control Panel	Control Panel	Well 17 Site	Well 17 Electrical (ELD-000046)	20,000.00
ELD-211011	Well 17 Vault Sump Pump	Sump Pump	Well 17 Site	Well 17 Piping & Valve Vault (ELD-777058)	500
ELD-211017	Well 17 Submersible Pump	Submersible Pump	Well 17 Site	Well 17 (ELD-685017)	15,000.00
ELD-290017	Well 17 Sodium Hypo Pump	Metering Pump	Well 17 Site	Well 17 Chemical Feed System (ELD-293017)	800
ELD-293017	Well 17 Chemical Feed System	Chemical Feed System	Well 17 Site		2,000.00
ELD-310012	Well 17 Pump Motor	Motor Horizontal AC	Well 17 Site	Well 17 (ELD-685017)	2,000.00
ELD-600018	Well 17 Piping System	Piping System	Well 17 Site		15,000.00
ELD-685017	Well 17	Water Production Well	Well 17 Site		1,600,000.00
ELD-777058	Well 17 Piping & Valve Vault	Valve Vault	Well 17 Site		10,000.00

Printed:  
1/6/2016 11:43 AM

Asset ID	Asset Name	Classification Name	Parent Location	Parent Asset	Replacement Cost
ELD-782281	Well 17 Isolation Valve	Gate Valve	Well 17 Site	Well 17 Piping System (ELD-600018)	5,000.00
ELD-784015	Well 17 Check Valve	Check Valve	Well 17 Site	Well 17 Piping System (ELD-600018)	3,000.00
ELD-790072	Well 17 Air Relief Valve	Air Relief Valve	Well 17 Site	Well 17 Piping System (ELD-600018)	500
ELD-913017	Well 17 CL2 Room Vent Fan	Exhaust Fan	Well 17 Site		500
ELD-915001	Well 17 Panel AC Unit	Air Conditioning Unit	Well 17 Site	Well 17 Electrical (ELD-000046)	5,000.00
<b>Well 18 Site</b>					
ELD-000032	Well 18 Instrumentation	Instrumentation	Well 18 Site		5,000.00
ELD-000047	Well 18 Electrical	Electrical	Well 18 Site		4,000.00
ELD-022028	Well 18 Level Transducer	Level Transmitters Bubblers/ Differential Pressure	Well 18 Site	Well 18 Instrumentation (ELD-000032)	2,000.00
ELD-022035	Well 18 Pressure Transmitter	Pressure Transmitters	Well 18 Site	Well 18 Instrumentation (ELD-000032)	2,000.00
ELD-051018	Well 18 Flow Meter	Magnetic Flow Meter	Well 18 Site	Well 18 Instrumentation (ELD-000032)	5,000.00
ELD-090018	Well 18 SCADA	Remote Telemetry Unit	Well 18 Site	Well 18 Electrical (ELD-000047)	4,000.00
ELD-100005	Well 18 VFD	Variable Frequency Drive	Well 18 Site	Well 18 Electrical (ELD-000047)	10,000.00
ELD-124018	Well 18 Control Panel	Control Panel	Well 18 Site	Well 18 Electrical (ELD-000047)	20,000.00
ELD-126018	Well 18 Main Disconnect	Disconnect Switch	Well 18 Site	Well 18 Electrical (ELD-000047)	1,000.00
ELD-126019	Well 18 Disconnect Switch 02	Disconnect Switch	Well 18 Site	Well 18 Electrical (ELD-000047)	1,000.00
ELD-126020	Well 18 Disconnect Switch 03	Disconnect Switch	Well 18 Site	Well 18 Electrical (ELD-000047)	1,000.00
ELD-171001	Well 18 Transfer Switch	Manual Transfer Switch	Well 18 Site	Well 18 Electrical (ELD-000047)	15,000.00
ELD-211018	Well 18 Submersible Pump	Submersible Pump	Well 18 Site	Well 18 (ELD-685029)	15,000.00
ELD-211019	Well 18 Vault Sump Pump	Sump Pump	Well 18 Site	Well 18 Piping & Valve Vault (ELD-777059)	500
ELD-293018	Well 18 Chemical Feed System	Chemical Feed System	Well 18 Site		2,000.00
ELD-310233	Well 18 Pump Motor	Motor Horizontal AC	Well 18 Site	Well 18 (ELD-685029)	2,000.00
ELD-600019	Well 18 Piping System	Piping System	Well 18 Site		15,000.00
ELD-685029	Well 18	Water Production Well	Well 18 Site		1,600,000.00
ELD-777059	Well 18 Piping & Valve Vault	Valve Vault	Well 18 Site		10,000.00
ELD-782282	Well 18 Isolation Valve	Gate Valve	Well 18 Site	Well 18 Piping System (ELD-600019)	5,000.00
ELD-784016	Well 18 Check Valve	Check Valve	Well 18 Site	Well 18 Piping System (ELD-600019)	3,000.00
ELD-790073	Well 18 Air Relief Valve	Air Relief Valve	Well 18 Site	Well 18 Piping System (ELD-600019)	500
ELD-915002	Well 18 Panel AC Unit	Air Conditioning Unit	Well 18 Site	Well 18 Electrical (ELD-000047)	5,000.00
<b>Grand Total (434 Records):</b>					<b>\$34,080,300.00</b>