

KEARNS IMPROVEMENT DISTRICT



2016
WATER CONSERVATION
PLAN UPDATE



**KEARNS IMPROVEMENT DISTRICT
2016 WATER CONSERVATION PLAN UPDATE**

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**KEARNS IMPROVEMENT DISTRICT
2016 WATER CONSERVATION PLAN UPDATE**

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CHAPTER 1

INTRODUCTION

Purpose of the 2016 Plan Update

The purpose for the 2016 Water Conservation Plan Update (Plan Update) is to provide a planning document for Kearns Improvement District (KID) (District) for the next five years to guide the water conservation program for the District.

Background

In 1998 the Utah State legislature passed the “Water Conservation Plan Act”, House Bill 418. The law required culinary water providers and conservancy districts to prepare a water conservation plan and submit the plan to the Utah Division of Water Resources (Water Resources) by April 1, 1999. The law also requires updates be submitted to Water Resources every five years. The act was amended in the 2004 session of the Utah legislature (House Bill 71). The act is codified as Section 73-10-32 of the Utah State Code.

The law states that:

(2)(a) Each water conservation plan shall contain:

- (i) a clearly stated overall water use reduction goal and an implementation plan for each of the water conservation measures it chooses to use, including a timeline for action and an evaluation process to measure progress.*
- (ii) a requirement that each water conservancy district and retail water provider devote part of at least one regular meeting every five years of its governing body to a discussion and formal adoption of the water conservation plan, and allow public comment on it.*
- (iii) a requirement that a notification procedure be implemented that includes the delivery of the water conservation plan to the media and to the governing body of each municipality and county served by the water conservancy district or retail water provider; and*
- (iv) a copy of the minutes of the meeting and the notification procedure required in Subsections (2)(a)(ii) and (iii) which shall be added as an appendix to the plan.*

As required by the act, Kearns Improvement District has submitted three previous conservation plans. The *2016 Water Conservation Plan Update* satisfies the requirements of the Water Conservation Plan Act as the update that is required every five years, and contains the elements set forth in the law. The Appendix of this Plan Update contains the Potable Demand Projections and Value of Conserved Water 2000-2025, the Notification Procedure, and the Notice of Public Hearing-Proof of Publication. The Appendix also contains the minutes of the public meeting during which the public hearing was held where public comment was received and a copy of all written comments, both mailed and emailed, by the comment deadline.

Description of Kearns Improvement District

Kearns Improvement District is located in western Salt Lake County, Utah. The District provides potable water and sanitary sewage collection services to approximately 50,000 residents. The District's boundaries are approximately between 4700 South to 7000 South and 4015 West to the Bacchus Highway (8400 West), including annexed areas west of 8400 West. Most of the residents served live within unincorporated Salt Lake County, however, some residents of West Valley City, Taylorsville City and West Jordan City are also served by KID.

The District was established in 1957 to provide water and sewer service to the homes in the area following the closing of Camp Kearns. The number of water connections has grown from 3,100 in 1957 to over 13,500.

CHAPTER 2

EXISTING AND FUTURE WATER USE

Retail Water Deliveries

Kearns Improvement District serves retail customers in Kearns Metro Township and portions of West Valley City, Taylorsville City and West Jordan City. KID has about 13,500 retail connections including residential, commercial and industrial and institutional customers. Drinking water deliveries to its retail customers are shown in Table 2.1.

Table 2.1
Kearns Improvement District
Service Area Water Deliveries
2000-2015

Year	Deliveries (gallons x 1,000)
2000	2,938,198
2001	2,834,252
2002	2,675,563
2003	2,502,536
2004	2,812,420
2005	2,495,367
2006	2,682,405
2007	2,864,882
2008	2,683,338
2009	2,471,254
2010	2,457,242
2011	2,547,829
2012	2,979,256
2013	2,789,610
2014	2,578,133
2015	2,699,349

KID purchases about 90% of its water from Jordan Valley Water Conservancy District (JVWCD). The remaining 10% comes from 12 deep wells KID operates.

Water Connections

In 2015 Kearns Improvement District provided water to 13,745 connections. Table 2.2 shows the breakdown of the connections based on the type of water connection.

Table 2.2
Kearns Improvement District
Types of Water Connections
2015

Type	Number
Single Family Residential	13,454
Multi-Family Residential	28
Commercial	202
Industrial	10
Irrigation	51
Total	13,745

Population Projections

The Governor's Office of Planning and Budget (GOPB) released its most recent population projections for Salt Lake County in 2008. The *2008 Baseline Report* includes projections through 2060. The *Baseline Report* projects an average annual growth rate countywide of about 1.7% from 2001 through 2025. This projection was created prior to the onset of our current economic slowdown and at this point appears too high. Until all the data from the 2010 US Census is released GOPD will not update their *Baseline Report*.

Kearns Improvement District has generated its own population projections based on the number of connections and the average household size (from US Census data). Table 2.3 shows the population projections for KID through 2025. The annual average growth rate for this 15 year period is projected to be 1.8%. Again, this growth rate may be too high but we will have to wait for GOPB's update before we can see if their projections are modified.

Table 2.3
Kearns Improvement District
Service Area Population Projections
2010-2025

Year	Population
2010	47,884
2011	48,881
2012	49,122
2013	49,688
2014	50,096
2015	50,564
2016	51,322
2017	52,092
2018	52,874
2019	53,667
2020	54,472
2021	55,289
2022	56,118
2023	56,960
2024	57,814
2025	58,682

Per Capita Water Use

Per capita water use is calculated by dividing total water deliveries by the population. Table 2.4 displays per capita water use in KID from 2000 through 2015. During the past 15 years the population served by Kearns Improvement District has grown by over 10,000 while total water deliveries have declined. While some of the decline the past two years may be attributed to cooler, wetter summers, it is clear that there has been a decrease of about 27% since 2000. Nationwide per capita water use has declined over that same period, but not to this extent. It is clear that much of the decline in water use in Kearns Improvement District is a result of water conservation efforts.

Table 2.4
Kearns Improvement District
Per Capita Water Use
2000-2015

Year	Deliveries (gallons x 1,000)	Population	Per Capita Use (gpcd)
2000	2,938,198	40,160	200
2001	2,834,252	41,400	188
2002	2,675,563	42,680	172
2003	2,502,536	44,241	155
2004	2,812,420	44,938	171
2005	2,495,367	45,720	150
2006	2,682,405	46,372	158
2007	2,864,882	47,192	166
2008	2,683,338	47,632	154
2009	2,471,254	47,740	142
2010	2,457,242	47,884	141
2011	2,547,829	48,881	143
2012	2,979,256	49,122	167
2013	2,789,610	49,688	154
2014	2,578,133	50,096	141
2015	2,699,349	50,564	146

Projected Water Demand

Projected water demand is calculated by multiplying the projected population times the projected per capita water use. Using year 2000 as the base, water demand is calculated assuming no water conservation takes place. The per capita water use in 2000 in KID was 200 gallons per capita day (gpcd). KID's conservation goal is reducing per capita use 25% by 2025. This goal would reduce per capita use from 200 gpcd to 150 gpcd by 2025. Table 2.5 compares the potential drinking water demands with and without water conservation.

If KID maintains the current per capita water use of 150 gpcd through 2025, the total water savings will exceed 21 billion gallons or 67,000 acre-feet when compared to the 2000 per capita use. The potential savings due to water conservation is equivalent to almost 9 years of water deliveries, worth more than \$38 million.

**Table 2.5
Kearns Improvement District
Potable Water Demand Projections
and Estimated Conservation Potential
2000-2025**

Year	KID Service Area Population	No conservation from 2000 usage rates		25% conservation by 2025 usage rates		Annual Amount Conserved (gx1000)
		Usage Rates (gpcd)	Potable Demand (g x 1000)	Usage Rates (gpcd)	Potable Demand (gx1000)	
2000	40,160	200	2,938,198	200	2,938,198	0
2010	47,884	200	3,521,812	141	2,641,359	880,453
2015	50,564	200	3,521,812	146	2,641,359	880,453
2020	54,472	200	4,124,938	150	3,093,704	1,031,235
2025	58,682	200	4,440,298	150	3,330,224	1,110,075

Value of Deferring Water Resource Development Projects

Kearns Improvement District purchases most of its drinking water from Jordan Valley Water Conservancy District. JWCD also has a water conservation goal of reducing demand for drinking water 25% by 2025. If this reduction goal is achieved JWCD has estimated that it will be able to defer or eliminate some future water development projects at a savings of at least \$1.3 billion.

This represents a potentially significant savings to all JWCD water users including Kearns Improvement District. In 2010 Kearns Improvement District purchased almost 10% of JWCD's potable water deliveries. If JWCD doesn't achieve its conservation goal it might have to construct the new water development projects. If these costs are passed on to water users, KID could expect to pay a portion of the \$1.3 billion in the form of higher water rates.

Water conservation may save Kearns residents \$38 million in reduced water purchases and \$130 million by deferring or eliminating future water development projects. It is important that both Kearns Improvement District and JWCD achieve their water conservation goals.

CHAPTER 3

CURRENT WATER CONSERVATION ACTIVITIES

Ongoing Conservation Programs

Kearns Improvement District has aggressively implemented water conservation programs and activities. Some of the water conservation programs implemented include:

- A part-time water conservation programs coordinator,
- A public information and education campaign,
- A conservation garden,
- A low flow toilet giveaway program,
- Annual water loss/leak detection and repair program,
- Residential and commercial water audits, and
- Water conservation rates.

The following sections are descriptions of Kearns Improvement District's conservation programs.

Water Conservation Programs Coordinator

Kearns Improvement District appointed a water conservation coordinator to run its water conservation programs. It is estimated that KID's coordinator spends approximately ¼ of her time on conservation efforts.

Public Information and Education Campaign

KID established a public information and education program to educate Kearns' residents about the need to use water wisely. The education efforts include having booths at the annual "Fire, Water and Ice" programs, holding open houses at the Conservation Garden, participating in IMS-AWWA Water Week activities and participating in JWCD's garden event.

Conservation Garden

The greatest potential for water conservation is through a reduction in outdoor water use. KID constructed a conservation garden to demonstrate water conservation principles by emphasizing the use of a variety of low-water-use plants.

The garden demonstrates how to have an attractive landscape suited to the Utah climate that saves water by using alternatives to the traditional bluegrass lawn.

Low Flow Toilet Replacement Program

A Toilet Replacement program was instituted in 2006, and over the past ten years KID has given away over 2,600 low flow toilets. The ULFTs in first five years of the program use 0.8 to 1.6 gallons per flush (gpf), compared to 3.5 to 7 gpf in older toilets. Since 2011, the toilets given away have been High Efficiency Toilets (HET) which use 1.2 gallons per flush.

It is estimated that between 5,000 and 10,000 old, high flow toilets exist in parts of Kearns older than 1992. If these old toilets are replaced with new, water efficient toilets, water savings could be over 40 gallons per day for each toilet replaced. The 2,600 toilets already replaced represent a water savings of 38 million gallons per year or 2,300 acre-feet of water over the 20-year life of the new toilets.

Conducting Water Loss/Leak Detection

Kearns Improvement District conducts an annual water loss evaluation. The comparison is made between water production and water sales.

In addition to monitoring it's unaccounted for water; KID has an active water leak detection and repair program.

Residential and Commercial Water Audits

This program by JWCD began offering residential "Water Checks" to homeowners in 1999 and was expanded to include auditing commercial, industrial and institutional landscapes in 2001. A typical water check includes determination of soil type, root depth, sprinkler pressure, distribution uniformity, and precipitation rate. The participant is given recommendations to improve watering efficiency and a customized irrigation schedule.

Water Conservation Rate Structures

In 1994 Kearns Improvement District adopted an increasing block water schedule. Table 3.1 shows the District's 2016 residential water rates. Water rates have been found to directly affect water use, and KID has experienced reduced per capita water use since implementing its increasing block water rate. Determining how much its water rate structure has conserved is beyond the scope of this report; however, it is believed to be one of the most significant measures impacting the reduction in water use in Kearns Improvement District.

Table 3.1
Kearns Improvement District
2016 Single Family Residential Water Rates

Monthly Use (Gallons)	Rates
0 - 10,000	\$2.33/1,000 gallons
10,001 - 25,000	\$2.92/1,000 gallons
25,001 - 45,000	\$3.97/1,000 gallons
45,001 and up	\$5.67/1,000 gallons

Cost Effectiveness of Existing Conservation Programs

The cost effectiveness of its water conservation activities is important to Kearns Improvement District. The cost effectiveness of some of its conservation programs is hard to measure. Other programs are easier to measure. Because measuring actual water savings due to some conservation efforts such as KID's education campaign is difficult, no cost effectiveness calculations for these programs are presented. However, the inability of measuring results of these programs does not mean these programs are not important or that they don't save water. An education program is a necessary component of a well rounded water conservation effort.

Table 3.2 presents conservation program costs from 2011 through 2015.

Table 3.2
Kearns Improvement District
Costs of Conservation Programs
2011-2015

Year	Conservation Coordinator	Toilet Give-Away	Fixture Give-Away	Education Programs	Conservation Garden	Leak Detection	Totals
2011	\$10,500	\$38,000	\$0	\$1,000	\$3,000	\$5,000	\$57,500
2012	\$10,500	\$33,000	\$0	\$1,000	\$3,000	\$5,000	\$52,500
2013	\$11,000	\$15,000	\$10,000	\$1,000	\$3,000	\$5,000	\$45,000
2014	\$11,000	\$16,000	\$10,000	\$1,000	\$3,000	\$5,000	\$46,000
2015	\$11,000	\$16,000	\$5,000	\$1,000	\$3,000	\$21,500	\$57,500
Totals	\$54,000	\$118,000	\$25,000	\$5,000	\$15,000	\$41,500	\$258,500

KID receives assistance in funding its conservation programs from JWWCD through the Member Agency Assistance Program. With JWWCD's funding the actual cost of the toilet replacement to KID has been \$214,000 for 2,600 acre-feet of savings. The cost per acre foot of savings for the toilet replacement program since 2007 has been \$93/acre-foot of water savings.

The leak detection and repair program for the past ten years has cost a total of \$50,000 with a water savings of about 1,700 acre-feet. The cost per acre-foot of savings for the leak detection and repair program since 2007 has been \$29/acre-foot of savings.

The Water Check program is run and funded by JWWCD. It costs KID nothing. As a result, the cost per acre-foot of savings is \$0.

Table 3.5 displays the cost effectiveness of KID's existing water conservation programs. The cost effectiveness of four of KID's programs; the conservation coordinator, the education program, the Conservation Garden and the water rate structure are not calculated.

The cost effectiveness of the low flow toilet replacement program, the leak detection/repair program and the "Water Check" programs are presented. All three of these programs are cost effective. The cost per

acre-foot of savings for the toilet replacement program has been \$93. The cost per acre-foot of savings for the leak detection program is \$29. The cost of the Water Check program was \$0. For comparison, in 2015 KID's cost of purchasing water from JWCD averaged \$468 per acre-foot.

The benefit to cost ratio for conservation programs is determined by dividing the cost of purchasing water from JWCD (\$468/acre-foot) by the cost of saving the water. The benefit-cost ratio for the toilet replacement program is 5. The benefit-cost ratio for the leak detection program is 16. This means that for every dollar KID has spent on replacing toilets, it has saved \$5.00 in water purchases from JWCD. For every dollar spent on leak detection and repair, KID has saved \$16.00 in water purchases.

Table 3.3
Kearns Improvement District
Estimated Cost Effectiveness of
Water Conservation Programs

Program	KID Cost per Acre-Foot of Savings
Conservation Coordinator	not calculated
Education Program	not calculated
Conservation Garden	not calculated
Low Flow Toilet Replacement	\$93
Leak Detection/Repair Program	\$29
"Water Check" Program	\$0
Water Rate Structure	not calculated

CHAPTER 4

ISSUES AND CONSTRAINTS

The following issues have been identified as primary concerns facing Kearns Improvement District's water conservation efforts. These issues include:

- *Many citizens lack understanding of landscaping water requirements and efficient water-use habits and practices.*
- *KID has actively implemented conservation education programs. However, many residents have not participated.*
- *Is a part-time conservation specialist enough to implement KID's ongoing programs into the future?*
- *Per capita water use had declined significantly since 2000. The District has achieved its water conservation goal. Can it maintain the decrease in per capita water use even during hot, dry summers?*

Many water users lack an understanding of landscaping water requirements and efficient water-use habits and practices. While progress has been made, KID needs to continue and increase its efforts to educate its water users about outdoor water use.

The challenge exists of balancing personnel time constraints within KID with its desire to improve and increase its water conservation efforts and outreach with its customers. In order to more fully implement and improve its water conservation efforts, KID should consider increasing personnel time spent on directing its water conservation efforts.

CHAPTER 5

POTENTIAL CONSERVATION MEASURES

Kearns Improvement District has achieved its water conservation goal of reducing per capita water use 25% since 2000. Per capita water use in 2000 was 200 gpcd and per capita water use in 2015 was calculated at 146 gpcd (a 27% decrease). Water use in the summers varies depending on the weather. Per capita water use is less in cooler and wetter summers, more in hotter and drier years. However, even with an adjustment for the weather, per capita water use is around the 150 gpcd level which meets KID's conservation goal.

Kearns Improvement District should focus its water conservation efforts on maintaining its reduced per capita water use. It would appear that new and expensive water conservation programs are not going to be necessary. Rather, KID should focus its future programs on maintaining its current water use levels.

For 2016 KID is planning to continue its giveaway of showerheads, hose timers and hose nozzles. The plan is to distribute 600 of each during 2016.

The Intermountain Section of the American Water Works Association (IMS-AWWA) is working with the Utah Division of Water Resources to perform pilot studies to identify water loss occurring with utilities. KID has volunteered to complete one of the pilot programs. KID will complete an extensive study of their system to identify the causes of water loss throughout their system so it can be reduced and or eliminated.

KID will landscape their 5 million gallon tank site at their office site. The landscaping will include water wise plants and include a significant reduction in turf grass.

CHAPTER 6

RECOMMENDATIONS

KID has met its water conservation goal, however, the District can improve the effectiveness of its conservation programs to help ensure that KID maintains its current per capita water use.

Conservation Programs for the Next Five Years

The following program recommendations are based on the evaluation of existing programs and possible new programs. The programs described below represent programs that are appropriate to Kearns, have been popular with customers, and are cost effective.

Program #1 - Continue funding from JWCD's Member Agency Assistance Program.

Since its inception KID has received funding assistance from JWCD through its Member Agency Assistance Program. The funding has greatly enhanced KID's conservation programs and increased the cost effectiveness of KID's programs.

It is recommended KID continue its working relationship with JWCD and apply for continued funding through the Member Agency Assistance Program.

Program #2 – Continue funding the Water Conservation Coordinator

The water conservation coordinator is a necessary component of KID's water conservation efforts. Currently, the coordinator is estimated to spend ¼ of her time on conservation. This equates to 10 hours per week. KID should maintain at least this level of manpower to run its conservation programs.

Program #3 – Improve Public Education and Outreach

KID has an existing water conservation education and outreach program. KID should continue these efforts.

Program #4 – Continue the Toilet Replacement Program

KID has been very successful in implementing its toilet replacement program. The program has been very popular and is cost effective.

While KID is rebuilding its office facilities, it may not be possible to conduct the toilet giveaway program, but once the construction is completed, KID can continue this program.

In addition to offering new toilets, KID should continue offering other low water use fixtures such as shower heads, faucet aerators, hose timers and hose nozzles. These fixtures are typically low cost and conserve water.

Program #5 – Continue the Water Loss and Leak Detection/Repair Programs

The past five years, KID has improved its water loss control methodologies and has conducted leak detection and repair programs. KID should continue to improve its water loss control efforts, including monthly monitoring of water loss and continuing its leak detection and repair program.

Proposed Implementation Schedule

The following table presents a proposed implementation schedule and costs of conservation programs for the next five years. The table shows each of the conservation activities recommended along with the cost and year the activity could be implemented. These costs represent projected costs of conservation programs and do not factor in any funding assistance from JWCD's Member Agency Assistance Program.

**Table 6.1
Implementation Schedule and Costs of
Water Conservation Programs
2017-2021**

Conservation Programs	Program Costs					5-Year Total
	2017	2018	2019	2020	2021	
Fund Conservation Coordinator (1/4-time)	\$11,000	\$11,000	\$11,500	\$11,500	\$12,000	\$57,000
Improve Education/Outreach Program	\$2,000	\$2,000	\$3,000	\$3,000	\$4,000	\$14,000
Continue Low Flow Toilet Giveaway Program	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$100,000
Continue Water Loss and Leak Detection/Repair Program	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
Conservation Garden	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
Continue Fixture Giveaway Program	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
Total Cost	\$46,000	\$46,000	\$47,500	\$47,500	\$49,000	\$236,000

APPENDIX

Notice of Public Hearing - Proof of Publication for the 2016 Water Conservation Plan Update

Public Comments on the Kearns Improvement District 2016 Water Conservation Plan Update

Resolution by Kearns Improvement District adopting the 2016 Water Conservation Plan Update

4770 S. 5600 W.
WEST VALLEY CITY, UTAH 84118
FED.TAX I.D.# 87-0217663
801-204-6910

Deseret News



Salt Lake Tribune

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CUSTOMER NAME AND ADDRESS

ACCOUNT NUMBER

KEARNS IMPROVEMENT DISTRICT,

9001336121

5350 W 5400 S
P.O. BOX 18608
KEARNS UT 84118

DATE

AUG 1 2016

8/1/2016

ACCOUNT NAME

KEARNS IMPROVEMENT DISTRICT,

TELEPHONE

ORDER # / INVOICE NUMBER

8019681011

0001104149 /

PUBLICATION SCHEDULE

START 07/30/2016 END 07/30/2016

CUSTOMER REFERENCE NUMBER

PH 8/9

CAPTION

NOTICE OF PUBLIC HEARING KEARNS IMPROVEMENT DISTRICT WATER CON

SIZE

34 LINES 2 COLUMN(S)

TIMES

TOTAL COST

3

119.24

**NOTICE OF PUBLIC HEARING
KEARNS IMPROVEMENT DISTRICT
WATER CONSERVATION PLAN UPDATE**
The Board of Trustees of Kearns Improvement District will hold a public hearing on Tuesday, August 9, 2016, at 6:00 P.M., in its offices located at 5350 West 5400 South, Kearns, Utah, 84118, telephone (801) 968-1011, to review its Conservation Plan Update for the period of time from 2016 through 2021.
The Conservation Plan Update is a public record and is available for inspection during business hours at the District's offices or online at www.kearnsid.org beginning Monday, August 1st through Tuesday, August 9, 2016.
All interested parties are invited to inspect the Conservation Plan Update, attend the public hearing, and make comments. All interested persons in attendance at the public hearing shall be given an opportunity to be heard and may speak for or against any item in the Plan.
The District will make reasonable accommodations for disabled persons needing assistance to attend or to participate in the public hearing. Requests for assistance can be made by contacting Abby Williams in the District's office at (801) 968-1011, at least forty-eight (48) hours in advance of the public meeting.
Written comments may be submitted to the District until 5:00 P.M. Tuesday, August 9, 2016.
1104149 UPAXLP

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba UTAH MEDIA GROUP LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF PUBLIC HEARING KEARNS IMPROVEMENT DISTRICT WATER CONSERVATION PLAN UPDATE The Board of Trustees of Kearns Improvement District will hold a public he FOR KEARNS IMPROVEMENT DISTRICT, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba UTAH MEDIA GROUP, AGENT FOR DESERET NEWS AND THE SALT LAKE TRIBUNE, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY. COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101: 46-3-104.

PUBLISHED ON Start 07/30/2016 End 07/30/2016

DATE 8/1/2016

SIGNATURE *Ann Dartnell*

STATE OF UTAH)

COUNTY OF SALT LAKE)

SUBSCRIBED AND SWORN TO BEFORE ME ON THIS 1ST DAY OF AUGUST IN THE YEAR 2016

BY ANN DARTNELL

Virginia Guff
NOTARY PUBLIC SIGNATURE

Public Hearing to Review its Conservation Plan Update was held Tuesday, August 9, 2016 at 6:00 PM at Kearns Improvement District office.

No written or oral comments were received.

**KEARNS IMPROVEMENT DISTRICT
2016 CONSERVATION PLAN UPDATE
RESOLUTION 2016-9-3**

WHEREAS, pursuant to § 73-10-32, Utah Code Ann. (1953) (“The Act”), Kearns Improvement District has prepared Water Conservation Plans as stipulated in The Act, and has now prepared an additional update to its Plan as provided in attached Exhibit 1 (the “Updated Plan”);

WHEREAS, Kearns Improvement District has established a water conservation goal to reduce water use within its service area by twenty-five percent by 2025;

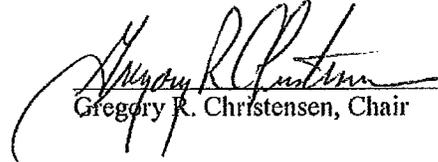
WHEREAS, the 2016 Water Conservation Plan Update identifies existing and proposed water conservation measures and programs needed to continue making progress towards achieving the goal; and,

WHEREAS, pursuant to The Act, Kearns Improvement District has held a public hearing, after reasonable and advance notice, for purposes of inviting and encouraging discussion and public comment on the Updated Plan;

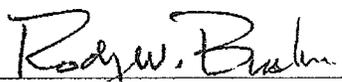
NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Kearns Improvement District:

1. Kearns Improvement District has met the requirements of The Act in its preparation of the Updated Plan.
2. The General Manager is authorized and directed to cause a copy of the Updated Plan to be filed with the Utah Division of Water Resources and with all other persons or entities deemed appropriate.
3. This Resolution shall take effect immediately upon execution by an authorized member of the Board of Trustees.

PASSED, ADOPTED AND APPROVED this 6th day of September, 2016.


Gregory R. Christensen, Chair

ATTEST:


Rodney W. Bushman, Board Clerk

 **GILMORE ENGINEERING, INC.**

15 September 2016

Eric Klotz
Utah Division of Water Resources
1594 West North Temple
P.O. Box 146204
SLC, UT 84114

Dear Eric:

This letter is to transmit one (1) copy of Kearns Improvement District's 2106 Water Conservation Plan Update. This will satisfy your requirement for them to produce an update every five years.

Please contact me or Kearns Improvement District if you have any question. Thanks.

Sincerely,



Douglas Gilmore, P.E.
Gilmore Engineering

enclosures