

United States Department of the Interior  
National Park Service

# National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in National Register Bulletin, *How to Complete the National Register of Historic Places Registration Form*. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. **Place additional certification comments, entries, and narrative items on continuation sheets if needed (NPS Form 10-900a).**

## 1. Name of Property

historic name Kirkland-McKinney Ditch  
 other names/site number Hayden Ditch; Hayden Canal; Hayden Branch of the Tempe Canal; Lateral 5 of the Tempe Canal

## 2. Location

street & number 1400 and 1500 block of East 8th Street  not for publication  
 city or town Tempe  vicinity  
 state Arizona code AZ county Maricopa code 013 zip code 85281

## 3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended,  
 I hereby certify that this  nomination  request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60.  
 In my opinion, the property  meets  does not meet the National Register Criteria. I recommend that this property be considered significant at the following level(s) of significance:  
 national  statewide  local

Signature of certifying official/Title \_\_\_\_\_ Date \_\_\_\_\_

State or Federal agency/bureau or Tribal Government \_\_\_\_\_

In my opinion, the property  meets  does not meet the National Register criteria.

Signature of commenting official \_\_\_\_\_ Date \_\_\_\_\_

Title \_\_\_\_\_ State or Federal agency/bureau or Tribal Government \_\_\_\_\_

## 4. National Park Service Certification

I hereby certify that this property is:

entered in the National Register  determined eligible for the National Register  
 determined not eligible for the National Register  removed from the National Register  
 other (explain:) \_\_\_\_\_

Signature of the Keeper \_\_\_\_\_ Date of Action \_\_\_\_\_

Kirkland-McKinney Ditch  
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**5. Classification**

**Ownership of Property**  
(Check as many boxes as apply.)

**Category of Property**  
(Check only **one** box.)

**Number of Resources within Property**  
(Do not include previously listed resources in the count.)

- private
- public - Local
- public - State
- public - Federal

- building(s)
- district
- site
- structure
- object

<u>Contributing</u>	<u>Noncontributing</u>	
		buildings
		sites
1		structures
		objects
1		<b>Total</b>

**Name of related multiple property listing**  
(Enter "N/A" if property is not part of a multiple property listing)

**Number of contributing resources previously listed in the National Register**

Not Applicable

0

**6. Function or Use**

**Historic Functions**  
(Enter categories from instructions.)

**Current Functions**  
(Enter categories from instructions.)

AGRICULTURE/SUBSISTENCE:

Irrigation Facility

AGRICULTURE/SUBSISTENCE:

Irrigation Facility

**7. Description**

**Architectural Classification**  
(Enter categories from instructions.)

**Materials**  
(Enter categories from instructions.)

No Style

foundation: Not Applicable

walls: Not Applicable

roof: Not Applicable

other: Earth, Concrete, Cobblestone, Shotcrete

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### **Narrative Description**

(Describe the historic and current physical appearance of the property. Explain contributing and noncontributing resources if necessary. Begin with a **summary paragraph** that briefly describes the general characteristics of the property, such as its location, setting, size, and significant features.)

#### **Summary Paragraph**

The Kirkland-McKinney Ditch is located in north-central Tempe, Arizona. The property consists of a 515-foot segment of Lateral 5 of the Tempe Canal. This segment retains aspects of integrity that allow it to suitably convey historic rural canalscapes (canals and associated riparian landscapes) in Tempe, 1869-1950. The Kirkland-McKinney Ditch's setting is now suburban; nevertheless the subject property serves as a reminder of the above-ground, dirt-lined, and tree-shaded canalscapes that once interlaced the Tempe area.

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### **Narrative Description**

The Kirkland-McKinney Ditch is a one-half-acre property located on the south side of East 8th Street between South Gary Drive and South Una Avenue in Tempe, Arizona. The property consists of an above-ground, dirt-lined canal shaded at its east end by a palo verde, a cottonwood, and a strand of giant reed. The entire property measures approximately 515 feet long by 40 feet wide. The canal bed measures approximately ten feet wide and four feet deep, with a storage capacity of approximately 20,600 cubic feet. Water flows intermittently in a westerly direction, entering from beneath South Una Avenue and exiting beneath South Gary Drive through a concrete headwall. At roughly 150 feet east of South Una Avenue the flow pauses at a check and turnout gate that feeds a sub-lateral ditch extending south.

#### Setting

The City of Tempe has zoned land near the Kirkland-McKinney Ditch for "residential", "commercial", and "public open space" uses, a reflection of the area's mid-twentieth-century transformation from a rural-agricultural landscape toward extensive suburban development.<sup>1</sup> Along the west end of the ditch's south boundary extends a non-contributing five-foot-tall masonry wall with interspersed wrought iron fencing that forms the northern boundary of a 1958 multifamily residential complex called Tempe Manor. East of Tempe Manor lies a non-contributing single-family residence, part of a subdivision called B-H Homes, also built in 1958. To the north, across East 8th Street, the ditch faces the City of Tempe's Creamery Park, built in 1999. Adjacent Creamery Park to the north, east, and west is a 1998 multifamily residential complex called Tempe Gateway. Approximately 300 feet to the west of Tempe Gateway, the historic Borden Milk Co. Creamery and Ice Factory (NR #84000171) houses commercial and industrial properties, most notably a popular restaurant-brewery that attracts considerable foot traffic to the area. East 8th Street, once the most heavily trafficked surface road between Tempe and Mesa, is now a two-lane, non-arterial street with light-to-medium duty.

#### Overview and Integrity of the Kirkland-McKinney Ditch Canalscape

The Kirkland-McKinney Ditch consists of three sections: an east end, a middle section, and a west end. The east and west ends reveal minor alterations accomplished during the 1980s in anticipation of multifamily residential development on the south side of East 8th Street, east and west of Kirkland-McKinney Ditch. Despite these alterations, however, the ditch remains above-ground, dirt-lined, and shaded by a landscape of palo verde, cottonwood, and giant reed. These aspects of integrity stand in stark contrast to other Tempe-area water delivery facilities, nearly all of which sustained improvements engineered by the canal system's administrator, Salt River Project (SRP), after 1950. Responding to customer demand for lower costs, SRP obtained low-interest federal loans under the Rehabilitation and Betterment Act of 1949; these loans provided for the concrete lining of canals to prevent seepage, the piping of laterals and ditches to prevent evaporation, installation of replacement steel gates, and the removal of trees and other plant life. These improvements that brought SRP's system up to "top working efficiency" but also compromised the integrity of the region's historic rural-agricultural canalscapes.<sup>2</sup>

An anomaly, Lateral 5 of the Tempe Canal (historically called the Kirkland-McKinney Ditch) between South McClintock Drive and South Rural Road in Tempe received few, if any, upgrades under Rehabilitation and Betterment. By 1980 its

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<sup>1</sup> "Existing Land Use, City of Tempe General Plan 2030" <<http://www.tempe.gov/modules/showdocument.aspx?documentid=3608>> December 4, 2003 (accessed August 14, 2012).

<sup>2</sup> Jay Ziemann, "The Modernization of the Salt River Project: The Impact of the Rehabilitation and Betterment Program," M.A. thesis, Arizona State University, 1988, 1-3, 113.

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form and character remained unchanged from its 1870 excavation, with minor exceptions such as road culverts and check and turnout gates associated with postwar residential development to the south. Then in 1983 SRP officials formulated plans to pipe all of Lateral 5 in response to anticipated multifamily residential developments along the south side of East 8th Street. Work progressed slowly, however, as the project endured construction delays and alterations, including a shortening of the pipeline near South Una Avenue over a dispute between the City of Tempe and a property owner. This dispute may explain, in part, the decision not to pipe Lateral 5 between South Una Avenue and South Gary Drive. Here the ditch retained its original form and character: in 1989 a researcher characterized this segment as “a broad and shallow unlined ditch...not very different from that originally dug by the pioneer shareholders...”<sup>3</sup>

What follows is a more detailed description and integrity assessment of the Kirkland-McKinney Ditch’s east end, middle section, and west end:

East End

At its east end, west of Una Avenue, water enters the canal through a non-contributing concrete culvert endwall under South Una Avenue. This structure, installed by SRP in August 1987, replaced an earlier culvert endwall that corresponded with the development of B-H Homes in 1958.<sup>4</sup> East of the endwall, however, Kirkland-McKinney Ditch retains the essential form and character of its 1870 excavation; likewise its dirt-lined channel sustains a contributing landscape once typical of Tempe canalscapes: near the endwall a mature palo verde tree and mature cottonwood tree shade the area, while further west a strand of giant reed hangs over the south embankment.

Middle Section

Approximately 150 feet downstream from the endwall, a contributing concrete check and turnout gate with timber panels partially diverts water into a sub-lateral extending south along the quarter-section line of Section 23, a quarter-mile west of what is now South McClintock Drive.<sup>5</sup> This check and turnout gate, installed by SRP in 1944, anticipated the platting and development of Borden Homes (NR #11001072), a non-contributing single-family residential subdivision located one-eighth of a mile south of Kirkland-McKinney Ditch. The check and turnout gate consists of two timber panels that lift up and down within a ten-foot by two-foot concrete setting that bridges the canal. The gate’s up-and-down action is accomplished by metal cranks of more recent installation. A second gate with a metal panel and metal crank regulates the amount of water that enters the sub-lateral to the south. Cobblestone-shotcrete lining, also installed in 1944, extends into the Kirkland-McKinney Ditch’s bed thirteen feet west of the check and turnout gate.

West End

Beyond the 1944 check and turnout gate and cobblestone-shotcrete lining, the canal transitions into an unshaded 350-foot dirt-lined channel that terminates at South Gary Drive. Here again the dirt-lined canal retains the basic appearance of its 1870 excavation. At South Gary Drive the flow disappears into a non-contributing concrete culvert headwall with trashrack. Before 1958 there was no culvert here, nor was there a South Gary Drive. Engineers built the road in 1958 to accompany the development of Carlson Park, a non-contributing single-family residential subdivision located one-eighth of a mile south of the canalscape. In February 1984, as part of its pipeline project, SRP installed a modern replacement culvert, which includes the concrete endwall and trashrack evident today.<sup>6</sup>

<sup>3</sup> Fred Anderson, “Tempe Canal, HAER No. AZ-16,” San Francisco: Historic American Engineering Record, National Park Service, Western Region, Department of the Interior, 1989, 44.

<sup>4</sup> Plan and profile drawing nos. A-64-216 and A-64-236, Documents Collection, Salt River Project (Research Services).

<sup>5</sup> “Sec. 23 T. 1 R. 4 Card #2,” Documents Collection, Salt River Project (Research Services).

<sup>6</sup> Plan and profile drawing nos. A-64-216 and A-64-236, Documents Collection, Salt River Project (Research Services).

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**8. Statement of Significance**

**Applicable National Register Criteria**

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B Property is associated with the lives of persons significant in our past.
- C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D Property has yielded, or is likely to yield, information important in prehistory or history.

**Criteria Considerations**

(Mark "x" in all the boxes that apply.)

Property is:

- A Owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or grave.
- D a cemetery.
- E a reconstructed building, object, or structure.
- F a commemorative property.
- G less than 50 years old or achieving significance within the past 50 years.

**Areas of Significance**

(Enter categories from instructions.)

Agriculture

Community Planning and Development

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Period of Significance**

1869-1950

**Significant Dates**

1870

**Significant Person**

(Complete only if Criterion B is marked above.)

Not Applicable

**Cultural Affiliation**

Not Applicable

**Architect/Builder**

William H. Kirkland, James B. McKinney, et. al.

**Period of Significance (justification)**

The period of significance corresponds with the rural-agricultural period of East Salt River Valley canalscapes, beginning with the Kirkland-McKinney Ditch's initial excavation in 1869 and lasting through 1950, when SRP began transforming the area's canalscapes under the Rehabilitation and Betterment program of 1950-1982.

**Criteria Considerations (explanation, if necessary)**

Not Applicable

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**Statement of Significance Summary Paragraph** (Provide a summary paragraph that includes level of significance and applicable criteria.)

The Kirkland-McKinney Ditch is eligible for listing on the National Register of Historic Places under Criterion 'A' for its association with "agriculture" and "community development and planning" at the local level of significance. The American and Mexican American settlers who arrived in the East Salt River Valley during the late 1860s and early 1870s built water delivery facilities as implements of agriculture; agricultural production in turn stimulated economic growth and the development of community life. "To Arizona," wrote a territorial booster in 1890, "irrigation is what the life-blood is to man, or the piston-rod is to the steam engine."<sup>7</sup> The East Salt River Valley was no exception. Its earliest water delivery facility, the Kirkland-McKinney Ditch, irrigated fields and gardens east of Tempe Butte, but also provided motive power to Hayden Flour Mill, one of the area's largest agriculture-industrial institutions. At the same time, as East Salt River Valley communities stabilized around agricultural production, the area's water delivery facilities became important aspects of community life in their own right. During the late nineteenth and early twentieth centuries, the Kirkland-McKinney Ditch canalscape accommodated a range of community uses, particularly youthful recreation.

**Narrative Statement of Significance** (Provide at least one paragraph for each area of significance.)

#### Agriculture

East of Tempe Butte, the Kirkland-McKinney Ditch irrigated several farms, including the nineteenth-century homesteads of Manuel Gonzales and Winchester Miller. Gonzales grew wheat, barley, and alfalfa in the southeast quarter of Section 13 (T1N, R4E), while Miller grew wheat and maintained a 35-acre orchard that produced apples, apricots, peaches, pears, and plums in the southwest quarter of Section 14 (T1N, R4E).<sup>8</sup> South of Gonzales and Miller, on the north banks of the Kirkland-McKinney Ditch, Manuela Sotelo subdivided a single-family residential neighborhood from her quarter-section homestead and distributed lots to friends and relatives.<sup>9</sup> The home of Irene Elias and Ray Rodriguez (NR #84000684) was typical: "The backyard fronting on the canal was a veritable garden, filled with fruit trees—figs, apricots, pomegranates, plums, citrus, quince—along with grapes and all varieties of flowers."<sup>10</sup> South of the Sotelo Addition, farms granted to Sotelo's children also drew water the Kirkland-McKinney Ditch: her daughter Jesús María and son-in-law Juan Soza, for example, farmed northeast of what is now the intersection of South Rural Road and East Apache Boulevard.<sup>11</sup> This farm remained in the family through the 1940s; Soza's great-grandson, Charlie Lee, recalls driving to the farm in the late 1940s and helping load the family car with potatoes, corn, squash, beans, and other produce.<sup>12</sup> Lands south of and adjacent to the Kirkland-McKinney Ditch, meanwhile, remained planted in field crops—principally alfalfa—through the late 1950s.<sup>13</sup>

Additionally, besides irrigating farms and gardens east of Tempe Butte, the Kirkland-McKinney Ditch served as a source of hydropower for Charles Trumbull Hayden's flour mill on the west slope of the butte; for decades this mill served as one of the area's largest agriculture-industrial institutions and its largest purchaser of locally grown grain (for more information see the "Developmental history/additional historic context information" discussion below).

#### Community Development and Planning

As East Salt River Valley communities stabilized around agricultural production, the area's water delivery facilities became important aspects of community life in their own right. Like other canals, laterals, and ditches, the Kirkland-McKinney Ditch's dirt-lined channel permitted seepage of water into the surrounding soil, creating riparian zones where cottonwood trees and other plant life flourished. "Where the canals or ditches have been established a few years," noted

<sup>7</sup> John A. Black, *Arizona: The Land of Sunshine and Silver, Health and Prosperity; the Place For Ideal Homes* (Tucson: John A. Black, 1890), 58.

<sup>8</sup> Scott Solliday, "The Journey to Rio Salado: Hispanic Migrations to Tempe, Arizona," M. A. thesis, Arizona State University, 1993, 64-72.

<sup>9</sup> Scott Solliday, "History of the Sotelo Addition to Tempe" in Wright, et. al., *La Plaza y La Cremeria*, 251-253.

<sup>10</sup> "Historic Building Analysis of the Elias/Rodriguez House" (Phoenix: Don W. Ryden, AIA/Architects, Inc., 1992), 22.

<sup>11</sup> Douglas E. Kupel, "Tempe's First Families: Soza, Sotelo, and Elias," Paper presented to the Arizona Historical Convention, April 23, 1993, 5. Manuscript on file at Tempe Historic Preservation Office, Tempe, Arizona.

<sup>12</sup> Conversation with Charlie and Mary Lee, August 22, 2012, Tempe, Arizona.

<sup>13</sup> Consult aerial photographs from 1930 and 1949 available at Maricopa County GIS Home <[http://www.fcd.maricopa.gov/maps/gio/gio\\_gis\\_portal.html](http://www.fcd.maricopa.gov/maps/gio/gio_gis_portal.html)> (accessed August 23, 2012).

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journalist Sylvester Baxter in 1888, “long lines of trees mark their course and give beauty to the landscape.”<sup>14</sup> These trees and the water delivery facilities that sustained them became marked features of the landscape. As Bureau of Reclamation historian Jim Bailey writes, “People used the canals and laterals for recreation, socializing, and to cool down during hot summer days.”<sup>15</sup> The Kirkland-McKinney Ditch was no exception. William H. Windes, who grew up in Tempe during the early twentieth century, recalls stealing a trough from the Tempe Normal School farm after “contemplating that it would make a great boat for us to use in that big canal on East Eighth Street...and we had a great time floating down the canal in it.”<sup>16</sup> At the Elias-Rodriguez House (NR #84000684) in the Sotelo Addition a half-mile to the west, “children used to swim in the canal and swung from a rope attached to the large trees that grew along its banks.”<sup>17</sup> Others used the canal for fishing and picnicking; the Baptist Rev. Chaptin used it to immerse parishioners amidst large congregations “just east of town.”<sup>18</sup> These and other uses made the Kirkland-McKinney Ditch an important aspect of local community life.

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**Developmental history/additional historic context information** (if appropriate)

Development and Early History of the Kirkland-McKinney Ditch

The development and early history of the Kirkland-McKinney Ditch is a story of separate irrigation companies that consolidated in the winter of 1870-71. The earliest was the Kirkland-McKinney Ditch, the first modern-era water delivery facility on the south side of the Salt River. The exact date in which William H. Kirkland, James B. McKinney, and their team of Mexican laborers began excavating the canal remains uncertain, though work probably commenced in the winter of 1869-70. What seems certain is that Kirkland and McKinney sought to emulate what Jack Swilling and others had accomplished on the north side of the Salt River near Phoenix two years earlier: a canal to water fields planted in wheat, barley, alfalfa, and other crops required by Army officials stationed at Fort McDowell. Both Kirkland and McKinney (sometimes spelled “McKinnie”) had been among the earliest residents of Phoenix: Kirkland was a well-heeled Arizona pioneer who abandoned Phoenix in about 1869 to start a farm in Section 14 (T1N, R4E) east of Tempe Butte, while McKinney is credited with “selling the first whiskey ever retailed in the Salt River Valley.”<sup>19</sup> From its head on the Salt River near what is now Alma School Road in Mesa, the Kirkland-McKinney Ditch extended west toward Kirkland’s farm at what is now South Rural Road. Unlike many nineteenth-century East Valley canals, the Kirkland-McKinney Ditch never exactly corresponded with an ancient Hohokam canal.<sup>20</sup> Though historical documentation of its excavation remains very limited, the segment between what is now South Gary Drive and South Una Avenue in Tempe was probably completed in 1870.<sup>21</sup>

In November 1870, perhaps less than a year after the Kirkland-McKinney team began their work, a Tucson-based freighter named Charles Trumbull Hayden and four others established the Hayden Milling and Farm Ditch Company downstream from the Kirkland-McKinney Ditch. The company filed claims for over 180,000 annual acre-feet of water from a canal head in the vicinity of Tempe Butte. A freighter in the business of hauling goods throughout Arizona Territory, Hayden valued Tempe Butte as a reliable Salt River crossing; undoubtedly by the fall of 1870 he had identified the area as an important transportation corridor and had probably formulated plans for a ferry service, flour mill, and general store that later became the basis of Tempe’s business district.<sup>22</sup>

Also in the fall of 1870, a month after the Hayden Milling and Farm Ditch Company had organized, Jack Swilling and five associates including B. W. Hardy formed the Hardy Irrigation Canal Company. The company claimed over 360,000

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<sup>14</sup> Curtis M. Hinsley and David R. Wilcox, eds., *The Southwest in the American Imagination: The Writings of Sylvester Baxter, 1881-1889* (Tucson: The University of Arizona Press, 1996), 151-152.

<sup>15</sup> Jim Bailey, “The Fruits of Their Labor” <[http://www.usbr.gov/lc/phoenix/AZ100/1910/fruits\\_of\\_labor.html](http://www.usbr.gov/lc/phoenix/AZ100/1910/fruits_of_labor.html)> (accessed August 17, 2012).

<sup>16</sup> William H. Windes, “Growing Up In Tempe—1909-1929 (Tempe, 1983), 50. Manuscript on file at Tempe Historic Preservation Office, Tempe, Arizona.

<sup>17</sup> “Historic Building Analysis of the Elias/Rodriguez House” (Phoenix: Don W. Ryden, AIA/Architects, Inc., 1992), 22

<sup>18</sup> “Tempe,” *Arizona Republican*, June 13, 1905.

<sup>19</sup> Thomas Edwin Farish, *History of Arizona* (San Francisco: The Filmer Brothers Electrotype Company, 1918) 6:94-95, 110, 225.

<sup>20</sup> Omar A. Turney, “Map of Prehistoric Irrigation Canals,” 1924. Map on file at the Daniel E. Noble Science and Engineering Library, Arizona State University, Tempe, Arizona.

<sup>21</sup> Anderson, “Tempe Canal,” 3; Pry, *Oasis in the Valley*, 7.

<sup>22</sup> Ilya Berelov and Victoria D. Vargas, “The Story of Charles Trumbull Hayden and His Family” in *Hayden Flour Mill: Landscape, Economy, and Community Diversity in Tempe, Arizona* (Tempe: Archaeological Consulting Services, 2008), 1:44-45

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annual acre-feet of water with a canal head near what is now Mesa Drive in Mesa.<sup>23</sup> In January 1871 these three entities—the Kirkland-McKinney Ditch, the Hayden Milling and Farm Ditch Company, and the Hardy Irrigation Canal Company—consolidated as the Tempe Irrigating Canal Company (TICC) under the direction of Swilling and his partners. By then workers had extended the Kirkland-McKinney Ditch to Kirkland's farm near what is now the intersection of East University Drive and South Rural Road in Tempe: this facility was quickly integrated into the larger and more elaborate TICC system.

In April 1871, Swilling and his associates offered Hayden seventeen shares, or over 700 annual acre-feet of water, on the condition he suspend the Hayden Milling and Farm Ditch Company's earlier water claims and move forward with the construction of a flour mill at Tempe Butte. Once Hayden bought in, laborers relocated the head of the Kirkland-McKinney Ditch to a lateral off the TICC's main Tempe Canal and extended the facility from Kirkland's farm around the south slope of Tempe Butte to the mill site, where Hayden and his laborers located a fall for the canal.<sup>24</sup> "There is an abundance of water power to be obtained," reported a *Los Angeles News* dispatch in April 1872, "and the location that [Hayden] has taken the precaution to secure is, of the most desirable character."<sup>25</sup> In the summer of 1874 the mill became operational, and thereafter the Kirkland-McKinney Ditch became known colloquially as Hayden Ditch (others called it "Hayden Canal" or "Hayden Branch of the Tempe Canal," while east of what is now South Rural Road many referred to the facility by its original name, the Kirkland-McKinney Ditch). Initially, the water that flowed through the mill's tailrace returned to the Salt River, but in the mid-1870s farmers west of Tempe under the direction of Michael Wormser hooked the head of the San Francisco Canal to the tailrace; thereafter the Kirkland-McKinney Ditch also supplied water to fields west of Tempe.<sup>26</sup>

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## 9. Major Bibliographical References

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<sup>23</sup> Anderson, "Tempe Canal," 4.

<sup>24</sup> Ilya Berelov, "The Business History of the Hayden Flour Mill Property" in *Hayden Flour Mill*, 1:175; Berelov and Vargas, "The Story of Charles Trumbull Hayden and His Family," in *Hayden Flour Mill*, 1:44; Scott Solliday, "Exploration and Settlement of Arizona and the Salt River Valley" in *Hayden Flour Mill*, 1:56-59.

<sup>25</sup> Reprinted as "Grist Mill for Tucson" in *Arizona Citizen*, 6 April 1872. The *Los Angeles News* had mistakenly identified Tucson as the location of Hayden's mill, prompting the *Arizona Citizen* to reprint the story with a correction.

<sup>26</sup> Jay Ziemann, "San Francisco Canal, HAER No. AZ-8," San Francisco: Historic American Engineering Record, National Park Service, Western Region, Department of the Interior, 1987, 10.

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**Previous documentation on file (NPS):**

- preliminary determination of individual listing (36 CFR 67 has been requested)
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # \_\_\_\_\_
- recorded by Historic American Engineering Record # \_\_\_\_\_
- recorded by Historic American Landscape Survey # \_\_\_\_\_

**Primary location of additional data:**

- State Historic Preservation Office
- Other State agency
- Federal agency
- Local government
- University
- Other
- Name of repository: \_\_\_\_\_

\_\_\_\_\_  
Historic Resources Survey Number (if assigned):

**10. Geographical Data**

**Acreage of Property** Less than one acre.  
(Do not include previously listed resource acreage.)

**UTM References**

(Place additional UTM references on a continuation sheet.)

1 12S 414972 3698151  
Zone Easting Northing

3 \_\_\_\_\_  
Zone Easting Northing

2 12S 415126 3698154

4 \_\_\_\_\_

Kirkland-McKinney Ditch  
Name of Property

Maricopa, Arizona  
County and State

Zone Easting Northing Zone Easting Northing

**Verbal Boundary Description** (Describe the boundaries of the property.)

The subject property is bounded by East 8th Street to the north, South Una Avenue to the east, South Gary Drive to the west, and the north property boundaries of Maricopa County APNs 132-59-021, 132-59-022, 132-59-023, and 132-60-015A to the south.

**Boundary Justification** (Explain why the boundaries were selected.)

The boundary selection corresponds with the right-of-way encompassing the 515-foot above-ground, dirt-lined segment of the Kirkland-McKinney Ditch.

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**11. Form Prepared By**

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name/title Nathan Hallam  
organization Tempe Historic Preservation Office date August 23, 2012  
street & number 21 East Sixth St. Suite 208 telephone 480-350-8870  
city or town Tempe state Arizona zip code 85281  
e-mail nathan\_hallam@tempe.gov; joe\_nucci@tempe.gov

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**Additional Documentation**

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Submit the following items with the completed form:

- **Maps:** A **USGS map** (7.5 or 15 minute series) indicating the property's location.  
A **Sketch map** for historic districts and properties having large acreage or numerous resources. Key all photographs to this map.
- **Continuation Sheets**
- **Additional items:** (Check with the SHPO or FPO for any additional items.)

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**Photographs:**

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Submit clear and descriptive photographs. The size of each image must be 1600x1200 pixels at 300 ppi (pixels per inch) or larger. Key all photographs to the sketch map.

Name of Property: Kirkland-McKinney Ditch  
City or Vicinity: Tempe  
County: Maricopa State: Arizona  
Photographer: Nathan Hallam

Kirkland-McKinney Ditch  
Name of Property

Maricopa, Arizona  
County and State

Date Photographed: December 11, 2011

Description of Photograph(s) and number:

1 of \_\_\_\_.

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**Property Owner:**

(Complete this item at the request of the SHPO or FPO.)

name U.S. Department of the Interior, Bureau of Reclamation (Phoenix Area Office)  
street & number 6150 West Thunderbird Road telephone 623-773-6200  
city or town Glendale state AZ zip code 85306

**Paperwork Reduction Act Statement:** This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C.460 et seq.).

**Estimated Burden Statement:** Public reporting burden for this form is estimated to average 18 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Office of Planning and Performance Management, U.S. Dept. of the Interior, 1849 C. Street, NW, Washington, DC.