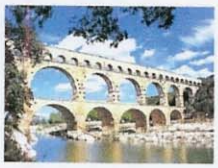
INITIAL MAPPING EFFORT
OF
WATER RIGHTS WITHIN THE CITY OF FERNLEY GEOGRAPHIC BOUNDARY

November 29, 2008

Prepared for the City of Fernley

by



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Abstract:

The intent of this project was to "Reconcile all past and future mapping difficulties by attempting to develop a new GIS map of all Truckee Diversion surface water rights within the City of Fernley". Section 13 was chosen to be mapped for this effort because it has the most change applications, is a combination of residential and agricultural land, and was water righted for 591 acres. Current DWR change applications, AB-380 retired water rights, and City of Fernley future change applications were researched and mapped using the City of Fernley APN parcel base and an AutoCAD program. Based on this effort, the City of Fernley completed and submitted a change application to DWR to change the manner of use and place of use of the remaining City of Fernley future change applications. Additionally, this data was inputted into an ArcGIS program which more easily presents and tracks the data collected to date.

This effort has shown that the past mapping difficulties can be resolved and that a new GIS map can be developed. Although only Section 13 was completed, this process can be applied to the remaining 15 sections of water righted land within the City of Fernley area.

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1.0 Current Situation and Resulting Mapping Issues

1.1 Background

The City of Fernley is one of the largest growing small cities in the State of Nevada. In the past, the City of Fernley was predominantly agricultural in nature. Growth has resulted in a significant numbers of new subdivisions, resulting in the manner of use of current surface water rights changing from irrigation to municipal and domestic purposes. The source of surface water used in the City of Fernley area is the Truckee River [Claim #3 of the Truckee River Decree], with the Point of Diversion being Derby Dam.

The Truckee Carson Irrigation District [TCID] manages the irrigation in the City of Fernley area, as well as the ownership of the Water Rights. The State of Nevada Division of Water Resources [DWR] is responsible for the processing and approving all "Change Applications", which are required to change the manner of use and place of use of appropriated waters in the State of Nevada.

Surface water rights in the City of Fernley area are currently depicted on the TCID water rights maps. This collection of maps includes 16 sections [640 acres per section] within the City of Fernley geographic area. The maps are based on square sections, with each section subdivided into 16 square 40 acres subdivisions. The following, Table 1, summarizes the initial water righted acres per Section in the City of Fernley area as listed on the TCID water rights maps.

Section	Township	Range	Water Righted Acreage
10	20 North	24 East	248.00
11	20 North	24 East	69.00
12	20 North	24 East	332.00
13	20 North	24 East	591.00
14	20 North	24 East	585.00
15	20 North	24 East	135.00
18	20 North	24 East	10.00
23	20 North	24 East	54.70
24	20 North	24 East	253.00
18	20 North	25 East	227.00
19	20 North	25 East	444.76
20	20 North	25 East	430.00
21	20 North	25 East	404.00
22	20 North	25 East	299.00
23	20 North	25 East	140.00
24	20 North	25 East	198.00
		Total	4420.46

Table 1: Initial Water Righted Acreage in City of Fernley Area

1.2 DWR Change Applications

Change applications and associated maps are submitted to the DWR to change the manner of use, place of use, and point of diversion of appropriated waters. When the change applications are submitted, the map includes the location of water to be changed [existing place of use] by subdivision, acreage, acre-feet, TCID number, proposed place of use, and point of diversion. For water rights with the proposed place of use listed as municipal, the proposed place of use map is the City of Fernley limits. When the change applications are processed, the DWR overlays the change application maps on the TCID Water Rights maps. This is to ensure that the change application corresponds to existing water rights and also that there is no location conflict with previous applications. The TCID Water Rights maps are then hand annotated in green to depict the location of the acreage listed in the change application. If a change application is withdrawn, then the map is annotated in red to reflect the withdrawn acreage. Figure 1 shows an example of the TCID Water Rights map [SW ¼ NE ¼, Section 13, Township 20N., Range 24 E., M.D.B.&M.], annotated by DWR to reflect the current change applications on file.

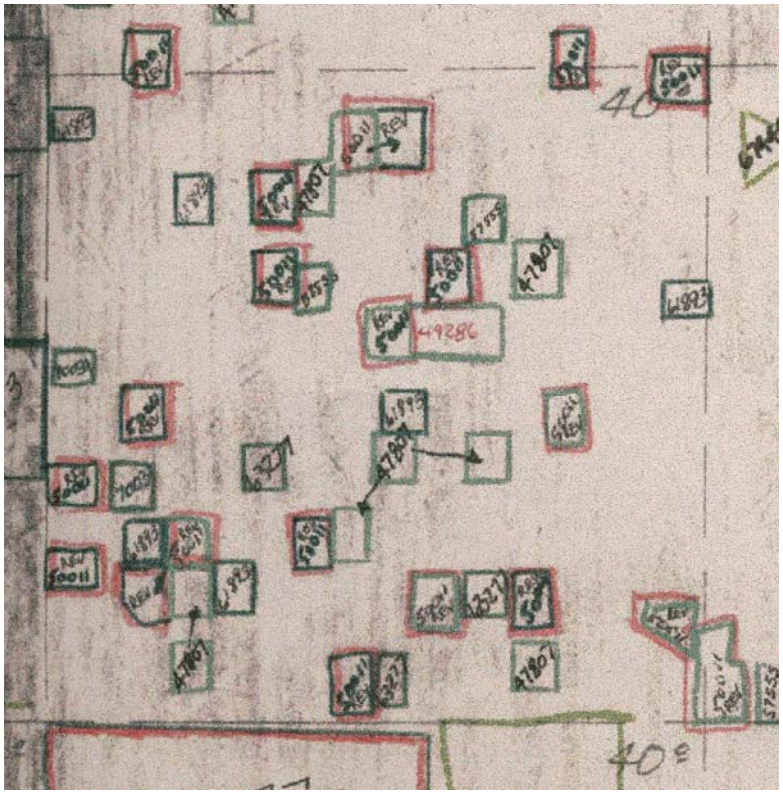


Figure 1: TCID Water Rights map [SW ¼ NE ¼, Section 13, Township 20N., Range 24 E., M.D.B.&M.], annotated by DWR to reflect the current change applications and withdrawn applications on file.

The City of Fernley, as the largest water right owner in the City of Fernley area, has and will continue to submit change applications to change the manner of use and place of use of water rights dedicated to the City of Fernley. The point of diversion, Derby Dam, is not normally changed when the City of Fernley submits change applications. Utilizing the existing system of mapping water rights has resulted in numerous acreage location conflicts with previous change applications. The location conflicts can be contributed to the following:

- TCID Water Rights maps where originally based on square uniform 640 acre sections and square uniform 40 acres subdivisions. Most of the sections and subdivisions are not square or 640 / 40 acres in size.
- Change applications maps have been signed and submitted by different Water Rights Surveyors utilizing various reference points for mapping the locations of the acreage. The ¼ and 1/16 section lines are not consistently mapped on previous change applications.
- The Lyon County Assessor's Parcel Map has been used for some change application. This map is based on surveyed locations and actual dimensions of parcels, which does not correspond accurately with the square 40 acre subdivisions.
- Change application with numerous and small [0.11 to 0.25] acres have been submitted.
- Change application locations have been withdrawn and sometime resubmitted, resulting in several annotations in the same location.

1.2 AB-380 Program

In addition to acreage of water rights removed from irrigation by DWR change applications, water rights have been retired through the State of Nevada legislative AB-380 program. The purpose of the AB-380 program was to purchase and retire Newlands project water rights in exchange for the Pyramid Lake Paiute Tribe dropping their remaining challenges to Newland Water Rights prior to April 1, 1999.

Numerous water rights were purchased through the AB380 program and retired within the City of Fernley area. These rights purchased and retired through the AB-380 program are not shown on the TCID maps which the DWR annotates with the locations of water removed from irrigation based on change applications.

1.3 City of Fernley – Un-Filed Water Rights

The City of Fernley has acquired approximately 9700 acre-feet (as of June 2008) of surface water rights through deeds from water rights owners over the previous 30 years. When deeded, the water rights were primarily listed with a manner of use as irrigation and place of use as the acreage irrigated. Change applications to change the manner of use and place of use of these water rights are required in order to use these water rights for municipal purposes. At the time this project started, approximately 5700 acre feet of

water rights had change applications submitted to the DWR. The remaining deeded water rights required change application to be submitted.

2.0 Scope of Project

This project has been funded through the State of Nevada SB62 Water Rights Technical Support Fund. The intent of the project is to "Reconcile all past and future mapping difficulties by attempting to develop a new GIS map of all Truckee Diversion surface water rights within the City of Fernley". The project included the following:

1. Place all water rights on City of Fernley GIS Parcel Base Map ("real world" survey-grade datum).
2. Obtain all existing maps and documents pertaining to water rights on the Truckee Canal within the City of Fernley.
3. Place all overlays onto City of Fernley GIS Parcel Base map using photo-interpretation of boundary lines.
4. Produce electronic and hardcopy versions of the new mapping system.
5. Obtain USBOR recognition of mapping system.
6. Obtain Nevada State Engineer recognition of mapping system.

This technical report is related to above items no. 1 through no. 4. The following actions were completed in support of this effort.

- Collection and analysis of existing City of Fernley Surface Water Rights.
- Meetings with City of Fernley and DWR.
- Prepare presentations.
- Selection of sample section for mapping.
- Determination and analysis of existing change applications of selected section.
- Determination and analysis of AB-380 programs retired water rights of selected section.
- Mapping water rights using Excel spreadsheet and Autodesk AutoCAD 2007 Programs.
- Mapping water rights using ArcGIS Program.
- Prepare summary report.

3.0 Project Mapping Approach and Results

The approach was to select a Section (640 acres) within the City of Fernley area, compile and map existing change applications, AB-380 retired water rights, City of Fernley "to-be

filed" water rights. After compilation of information and mapping, the information was to be imported into a GIS program database.

3.1 Selection of Trial Section

The water rights located within the City of Fernley geographic area are within 16 sections (640 acres per section). Each section includes residential, residential and agricultural, and agricultural water righted lands. The sections are water righted in the amount of 10 acres to 591 acres. Section 13 was chosen to be mapped for this effort because it has the most change applications, is a combination of residential and agricultural land, and was water righted for 591 acres. Section 13, although one of the most complicated water righted sections in the City of Fernley area, included all the pertinent issues which could be applicable to mapping the other sections.

3.2 Base Map

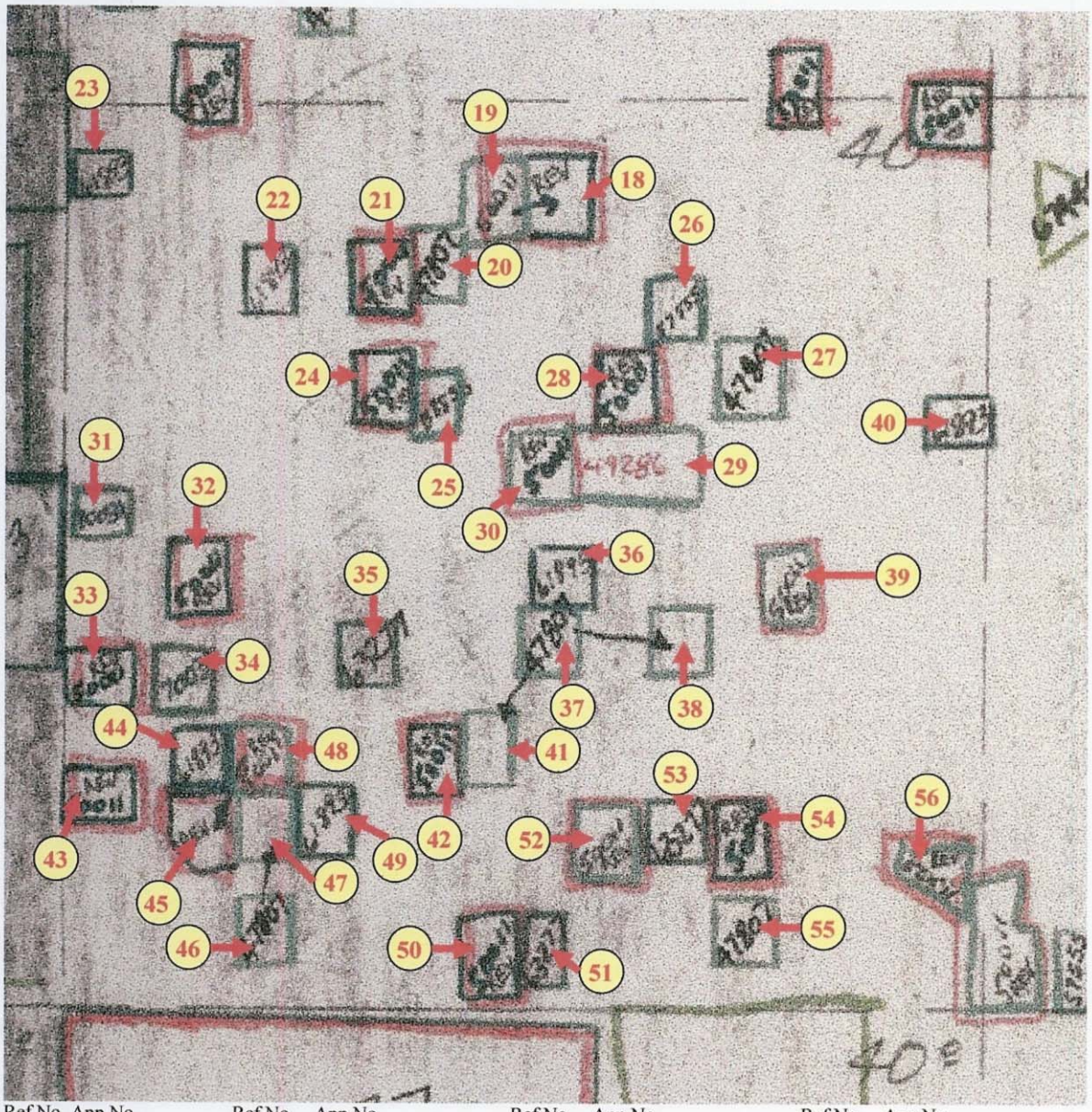
The assessors parcel base (APN) was supplied from the City of Fernley and was used as the base map. The City of Fernley APN database was in an AutoCAD file and is based on surveyed parcels. Per City of Fernley GIS personnel, this data base is the best available data currently available. The APN database is reference to the State Plane Coordinate System NAD 1983.

3.3 Change Application Mapping Process

As noted earlier, the DWR tracks change application submitted to their office by annotating the areas (existing place of use) on a TCID water rights map. Additionally, a ledger book is kept with the debits and additions of water rights per 40 acre subdivision so that a running total of current water rights are documented. This office obtained a copy of the current the DWR existing place of use maps and ledger books for section 13. Each 40 acre subdivision was scanned and a reference number was assigned to each annotation. Files were developed for each annotation. Change applications numbers and status (active or withdrawn) of those change application were determined. Figure 2 shows an example of the tracking system used.

Each referenced annotation file included the following:

- Copy of all associated change applications and map,
- Determination of Active versus withdrawn change applications [withdrawn change applications were not mapped]
- Determination of acreage / acre-feet / APN / location / TCID no.,
- Deeds if City of Fernley change application, and
- Tracking sheet



Ref No.	App No.	Ref No.	App No.	Ref No.	App No.	Ref No.	App No.
18	50011[REV]	28	50011[REV]	38	47807	48	50011[REV]
19	50011[REV]	29	49286	39	50011[REV]	49	61893
20	47807	30	50011[REV]	40	61893	50	50011[REV]
21	50011[REV]	31	70031	41	47807	51	63277
22	61893	32	50011[REV]	42	50011[REV]	52	50011[REV]
23	61893	33	50011[REV]	43	50011[REV]	53	63277
24	50011[REV]	34	70031	44	61893	54	50011[REV]
25	57555	35	63277	45	50011[REV]	55	47807
26	57555	36	61893	46	47807	56	50011[REV]
27	47807	37	47807	47	47807		

SW ¼ NE ¼	Section 13, # Township 20 North, Range 24 E. M.D.B.&M DNR Water Rights Map	Stanka Consulting, LTD 4/2/21/2007

Figure 2: Tracking System Map

After all available information was collected, the pertinent date was included into a excel spreadsheet. Table 2, Section 13 Change Applications, is a spreadsheet of the change applications relating to Section 13, Township 12 North, Range 24 East, M.D.B.&M.

Based on the information included in Table 2, the acreage depicted in the change applications was mapped. The change application were mapped based on referenced APN numbers. Figure 3, Section 13 DWR Change Applications, is the AutoCAD map of Section 13 to include current change applications. During the mapping process, conflicts to be resolved at a later date where identified. The majority of these conflicts involved slight (.1 acres) differences between the acreage actually mapped and the acreage listed in the change applications.

Table 3: DWR Existing Change Applications

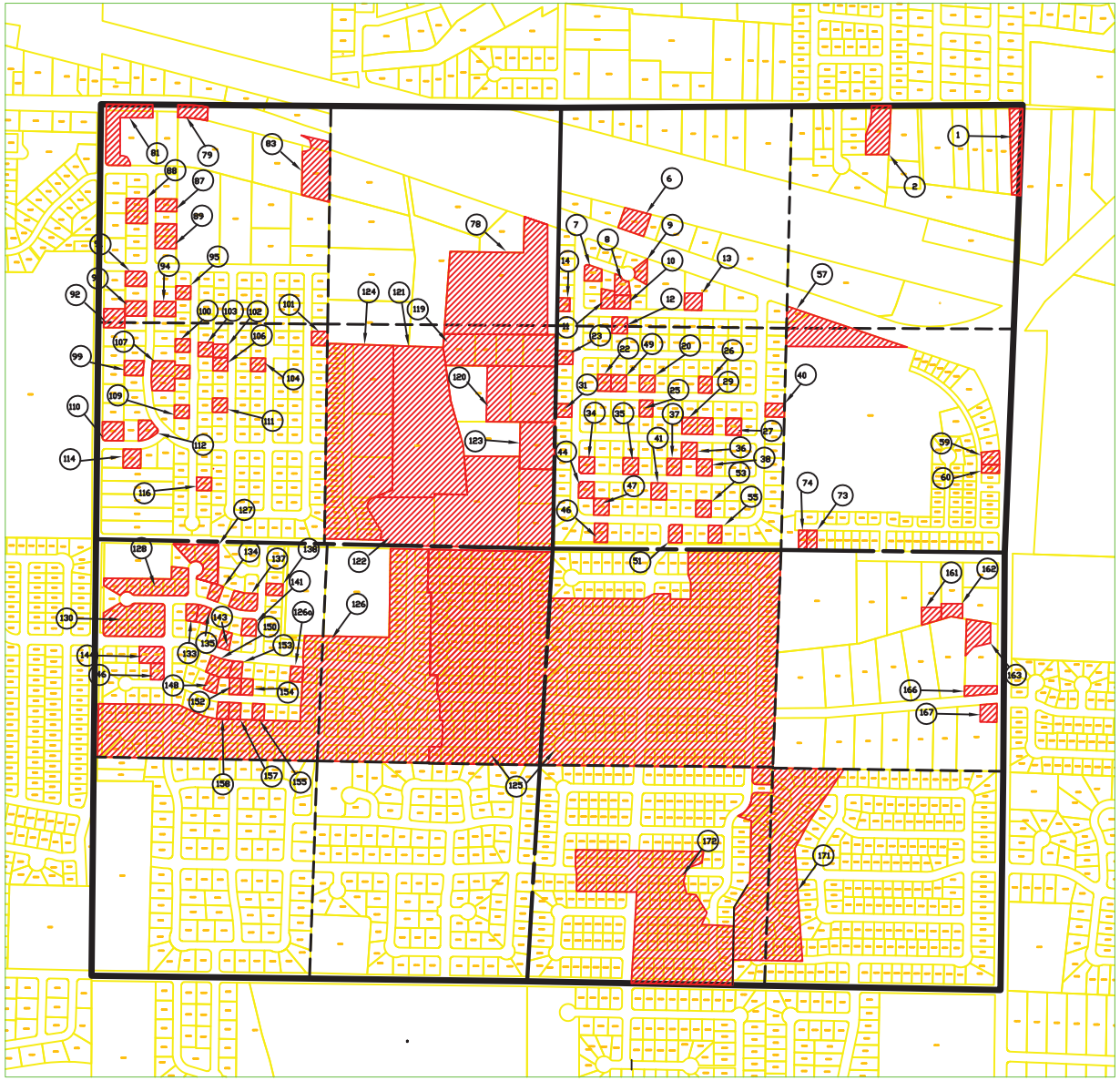
ID No.	APP No.	TCID No.	APN No. from App or TCID	Acres [App]	Acre [Mapped]	APN No. Mapped	Notes
1	75262	1049-1-B	2127105	0.81	0.744	2127105	0.74 acres located in Sec. 13, 0.07 acres located in Sec 18
2	69283	1020-4-A	2110124	0.9	0.887	2110124	Mapped to section line, outside of APN
6	57555	1024-1-a-1	2110208	0.5	0.5	2110208	
7	61893	1024-a-52	2022209	0.21	0.209	2022209	
8	61893	1024-a-10	2022211	0.2	0.214	2022211	
9	57555	1024-a-47	2022213	0.19	0.185	2022213	
10	47807	1024-a-68	2022205	0.39	0.397	2022205	Per App., Acerage Combined w/no.12
11	57555	1024-a-2	2022206	0.21	0.205	2022206	
12	47807	1024-a-3	2022303			2022303	See 10
13	56226	1024-9	2022220	0.2489	0.249	2022221	Parcel Split
14	56226	1024-a-66	2022106	0.1377	0.1377	2022106	
20	47807	1024-a-7	2022520	1.64	1.642	2022520	Per App,, Acerage combined w/ 20/27/37/38/41/46/47/55
22	61893	1024-a-12	2022523	0.18	0.184	2022523	
23	61893	1024-a-97	2022110	0.18	0.184	2022110	
25	57555	1024-a-55	2023205	0.18	0.184	2023205	
26	57555	1024-b-87	2022516	0.18	0.184	2022516	
27	47807	1024-b-23	2023214			2023214	[see 20]
29	49286	1024-b-45 / 21	2023216-17	0.42	0.427	2023216/17	
31	70031	1024-a-84		0.39	0.396	2023102	Per App., Acerage combined w/ 34; Verify TCID/APN Nos.
34	70031	1024-a-24				2023424	see 31; Verify TCID/ APN Nos.
35	63277	1024-a-37	2023421	0.21	0.213	2023421	
36	61893	1024-b-26	2023408	0.21	0.213	2023408	
37	47807	1024-b-65	2023418			2023418	[see 20]
38	47807	1024-b-29	2023416			2023416	[see 20]
40	61893	1024-b-18	2023317	0.22	0.218	2023317	
41	47807	1024-b-53	2023506			2023506	[see 20]
44	61893	1024-a-87	2023501	0.21	0.212	2023501	
46	47807	1024-a-29	2023114			2023114	[see 20]
47	47807	1024-b-14	2023210			2023210	[see 20] TCID listed TCID No. 1024-b-14 as APN 2023210, located in different Location; mapped based on change App.
49	61893	1024-a-19	2023522	0.21	0.213	2022522	Change app lists APN 2023522; Deed list APN 2022522
51	63277	1024-b-44	2023301	0.19	0.197	2023301	
53	63277	1024-b-63	2023516	0.21	0.213	2023516	
55	47807	1024-b-76	2023304			2023304	[see 20]

Table 3: DWR Existing Change Applications

57	67449	1019-1	2010301	2.04	2.039	2010301/38	Acre in App. does not match App. map; excess mapped in APN 2010338
59	61893	1019-h	2041108	0.2	0.199	2041108	
60	63277	1019-G	2041107	0.12	0.124	2041107	
73	61893	1019-f-f-f	2041703	0.16	0.165	2041703	
74	57555	1019-ggg	2041702	0.14	0.138	2041702	
78	74994	1025-5-b	2110311	7.59	7.57	2110311	
79	69283	1028-8	2010203	1.5	1.479	2010203	Per App., Acerage Combined w/ 81 Scanned from App Map
81	69283	1028-4	2010201			2010201	[see79]
83	49285	1028-1-i	2010206	1.4	1.31	2010206	Scanned from App. Map
87	67449	1028-1-z	2007106	0.22	0.22	2007106	
88	56226	1028-1-o	2007203	0.44	0.441	2007209/10	
89	47849	1028-1-v	2007102	1.225	1.232	2007107/8	Per App., Acerage Combined w/ 89/91/93/94
91	47849	1028-1-bb	2008201			2008201	[see 89]
92	70031	1020-1-n-f		0.37	0.335	2008219	Verify TCID & APN
93	47849	1028-1-n-e	2008203			2008203	[see 89]
94	47849	1028-1-gg	2008108			2008108	[see 89]
95	57555	1028-2-c	2009202	0.17	0.165	2009202	
99	61893	1028-1-n-h	2008207	0.27	0.239	2008207	
100	47849	1028-2-l	2009206	1.408	1.413	2009206	Per App., Acerage Combined w/ 100/103/106/107/109
101	63277	1028-3-a-4	2012108	0.19	0.186	2012108	
102	61893	1028-3-2	2012706	0.16	0.164	2012706	
103	47849	1026-a-47	2009107			2009107	[see 100]
104	61893	1028-3-a-33	2012507	0.16	0.164	2012507	
106	47849	1028-3-29	2012707			2012707	[see 100]
107	47849	1028-1-c/l/q	2008103 /4 &2009208			2008103 / 4 & 2009208	[see 100]
109	47849	1028-2-dd	2009211			2609211	[see 100]
110	61893	1028-1-b	2008213	0.33	0.333	2008213	
111	63277	1028-3-15	2012710	0.17	0.174	2012710	
112	51738	1028-1-e	2008211	0.27	0.26	2008211	
114	47831	1028-1-n-l	2008302	0.47	0.443	2008302	Per App., Acerage Combined w/ 114/116
116	47831	1028-2-v	2009303			2009303	[see 114]
119	63277	1025-5, 1025-5-e/o/c	2110322 /3 /4 /5	3.63	2.982	2110322 /3 /4 /5	acerage low
120	56226	1025-5-a / a-1	2110319 /20	3.2355	3.2354	2110319 /20	
121	74485	1025-6-a	2110337	8	7.99	2110337	
122	74484	1025-6-a /7 /4 /4-a	2110304 /37/ 40 /41	10.13	10.05	2110304 /37 /40 /41	
123	61893	1025-7-a	2110315	1.36	1.372	2110315	
124	50014	1025-6 /6b /6c	21-103-29 / 31 /38	10.36	10.25	Subdiv	

Table 3: DWR Existing Change Applications

125	67449	1023	2111126 /27 / 2112106	56.653	56.64	Subdiv	
126	56226	1026-b, 1026-b-1 to 99	many	25.14	24.88	Subdiv	
126a	56226	1026-a-35	2019511	0.16	0.162	2019511	
127	47831	1026-a-49	Not Avail	3.95	4.996	2019112 /13 /14 /15	Per App., Acerage Combined w/ 127/128/130/144 Acerage High
128	47831	1026-a-49	not available			2019117 through 23	[see 127]
130	47831	1026-a-49	not available			2019125 through 29	[see 127]
133	47849	1026-a	2019302	1.89	1.906	2019302	Per App., Acerage Combined w/ 133/137/138/141/146/150/152/155/157
134	61893	1026-a-56-k	2019110	0.16	0.162	2019110	
135	63277	1026-a-61	2019303	0.16	0.167	2019303	
137	47849	1028-2-i,1026-a-58	2019107 / 8			2019107 / 8	[see 133]
138	47849	1026-a-43	2019208			2019208	[see 133]
141	47849	1026-a-39	2019307			2019307	[see 133]
143	50014	1026-a-24	2019310	0.17	0.166	2019310	
144	47831	1026-a-49	not available			2019404 /5	[see 127]
146	47849	1026-a-16	2019406			2019406	[see 133]
148	67449	1026-a-41	2019519	0.16	0.164	2019519	
150	47849	1026-a-9 / 14	2019504 /5			2019504 /05	[see 133]
152	47849	1026-a-32	2019517			2019517	[see 133]
153	61893	1026-a-8	2019506	0.16	0.163	2019506	
154	61893	1026-a-40	2019516	0.16	0.162	2019516	
155	47849	1026-a-29	2019608			2019608	[see 133]
157	47849	1026-a-38	2019606			2019606	[see 133]
158	63277	1026-a-2	2019605	0.17	0.164	2019605	
161	56226	1022-2-c	2111124	0.2489	0.2489	2111124	
162	56226	1022-2-c-1	2111125	0.2489	0.249	2111125	
163	73844	1021-1-f	2111107	0.53	0.533	2111107	
166	57555	1021-1-f	2111107	0.2489	0.246	2111107	
167	61893	1021-1-a	2111120	0.2489	0.248	2111120	
171	67449	1023	2111132	9.96	9.94	Subdiv	
172	70130	1023-b	2111136	10.75	10.767	Subdiv	
			Total	175.314	175.044		



Base Map obtained from City of Fernley, labeled "City of Fernley Parcel Master" updated February 21, 2007.

Autodesk AutoCAD 2007 lt

Mapping Approach

- Obtain digital copy of City of Fernley Parcel Master [BASE Map]
- Scan DWR Water Rights Maps with change application locations
- Assign each change application location a reference number
- Research each reference number to determine change application no., TCID no., APN No. Acreage, duty, and acre-feet
- Research each reference number to determine status [active or withdrawn]
- If APNs where not available from change applications, coordinate with TCID to cross reference TCID no. with APN numbers.
- Create information binder with all available references [including deeds if available]
- Map location of active change application parcels on Base Map. Document ID No., TCID No., Acreage listed in change application, acreage mapped, and note discrepancies.

SCALE

400 0 200 400 800 1,600 FEET

1 inch = 400 ft.

Figure 3
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June 20, 2008

City of Fernley Mapping Effort
Section 13, Township 20 North, Range 24 E. M.D.B.&M.
Current Change Applications On File
with Nevada State Engineer's Office

LYON COUNTY NEVADA

3.4 AB-380 Program "retired water rights' Mapping Process

Numerous water rights were purchased through the AB380 program and retired within the City of Fernley area. These rights purchased and retired through the AB-380 program are not shown on the TCID maps which the DWR annotates with the locations of water removed from irrigation based on change applications.

An Excel spreadsheet of water rights deeded to the AB-380 program and subsequently retired was obtained from a representative of the Bureau of Reclamation. This spreadsheet included the APN numbers, TCID numbers, Deed recording numbers and acreage of the retired water rights in Lyon County. The spreadsheet was reviewed and pertinent deeds obtained. Only the deeds where partial water rights transferred where obtained as part of this effort. The deeds included a map showing the location of the water rights that were retired.

The spreadsheet was then sorted to identify AB-380 parcels within section 13. Table 3: Section 13 AB-380 Parcels, is a spreadsheet which lists the TCID number, APN number, Deed recording number, and acreage of the AB-380 parcels.

Based on the information included in Table 3 the acreage depicted in the AB-380 deeds was mapped. Figure 4, Section 13 AB-380 Program Parcels, is the AutoCAD map of Section 13 AB-380 retired areas of irrigation. During the mapping process, conflicts to be resolved at a later date where identified.

Table 3: AB-380 Program Parcels

ID No.	TCID No [Deed].	APN No. [Deed]	Deed No.	Aces [Deed]	Acre [Mapped]	APN No. Mapped	Notes
1	1020-7	021-101-16	387061	0.3	0.986	2110116	Acreage on deed mapped too large
2	1020-4-a	21-101-24	297891	0.1	0.096	2110124	
3	1020-4-a-2	21-101-27	267344	0.91	0.908	2110127	
3a	1020-4-c	21-101-21	287562	1	0.984	2110121	
4	1024-5-a	21-101-10	248750	2.74	2.735	2110110	0.036 acre of APN in Sec. 12
5	1024-5-f	21-101-09	306931	0.87	0.87	2110109	
6	1024-5 & 1024-5-h	21-101-81 /07	269243	2.17	2.091	2110181 / 07	Acerage mapped to Section Line and included Portion of APN 2110109
7	1024-5-e	21-101-03	261310	0.47	0.471	2110103	
8	1024-a-91	20-221-02	326502	0.18	0.184	2022102	
9	1024-a-61	20-221-03	335049	0.18	0.184	2022103	
10	1024-80	20-221-04	395512	0.18	0.183	2022104	
11	1024-a	20-221-05	392370	0.21	0.184	2022105	
12	1024-a-81	20-221-07	392368	0.18	0.184	2022107	
13	1024-a-90	20-222-08	294039	0.19	0.193	2022208	
14	1024-a-48	20-222-10	392373	0.21	0.205	2022210	
15	1024-a-59	20-222-14	321888	0.26	0.2	2022214	
16	1024-a-5	20-223-05	376708	0.21	0.213	2022305	
17	1024-a-73	20-223-06	317352	0.18	0.184	2022306	
18	1024-b-3	20-223-08	381070	0.21	0.211	2022308	
19	1024-b-61	20-223-09	395513	0.18	0.184	2022309	
20	1024-b-81	20-223-11	394842	0.18	0.184	2022311	
21	1024-b-10	20-223-10	402712	0.21	0.213	2022310	
22	1024-b-33	20-223-12	402139	0.21	0.212	2022312	
23	1024-b-49	20-224-03	320544	0.22	0.223	2022403	
24	1024-b-20	20-224-04	261310	0.22	0.222	2022404	
25	1024-b	20-223-13	402712	0.19	0.212	2022313	
26	1024-b-37	20-223-14	261310	0.18	0.184	2022314	
27	1024-a-88	20-223-19	394143	0.18	0.184	2022319	
28	1024-a-20	20-223-20	383561	0.21	0.213	2022320	
29	1024-a-4	20-223-24	261310	0.21	0.212	2022324	
29a	1024-a-71	20-221-09	270047		0.184	2022109	need deed
30	1024-a-18	20-225-03	331702	0.21	0.213	2022503	

Table 3: AB-380 Program Parcels

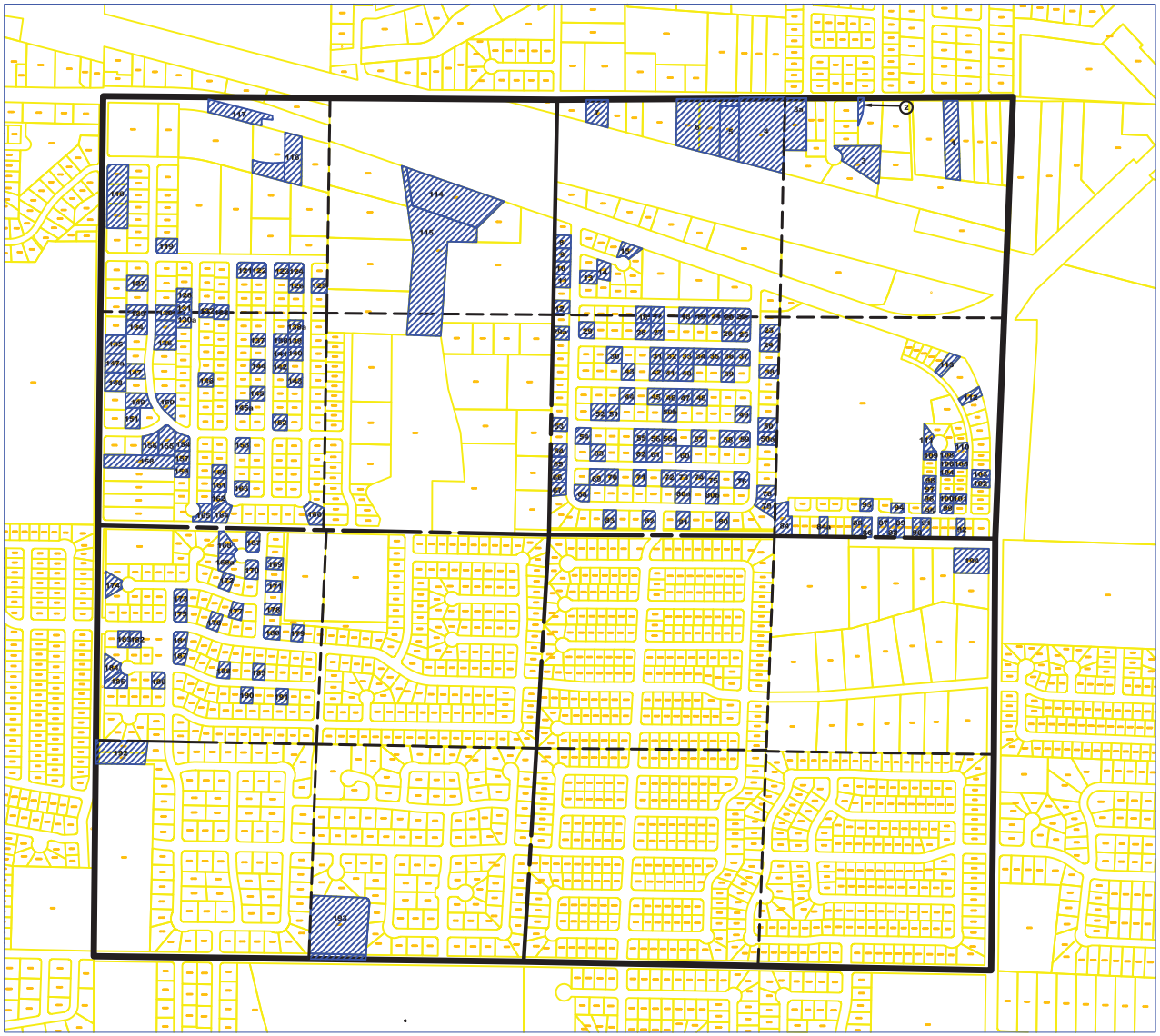
ID No.	TCID No [Deed].	APN No. [Deed]	Deed No.	Aces [Deed]	Acre [Mapped]	APN No. Mapped	Notes
31	1024-a-58	20-225-06	261310	0.18	0.184	2022506	
32	1024-b-11	20-225-07	261310	0.21	0.213	2022507	
33	1024-b-4	20-225-08	402712	0.21	0.211	2022508	
34	1024-b-40	20-225-09	390983	0.18	0.184	2022509	
35	1024-b-39	20-225-10	385270	0.21	0.213	2022510	
36	1024-b-7	20-225-11	390161	0.18	0.184	2022511	
37	1024-b-50	20-225-12	392367	0.21	0.212	2022512	
38	1024-b-54	20-224-06	390162	0.22	0.22	2022406	
39	1024-b-82	20-225-14	278470	0.18	0.184	2022514	
40	1024-b-5	20-225-17	390982	0.21	0.211	2022517	
41	1024-b-8	20-225-18	390163	0.21	0.213	2022518	
42	1024-a-93	20-225-19	295109	0.18	0.184	2022519	
43	1024-b-67	20-225-21	261310	0.18	0.184	2022521	
44	1024-a-26	20-232-04	261310	0.21	0.213	2023204	
45	1024-a-79	20-232-06	382597	0.18	0.213	2023206	
46	1024-b-69	20-232-07	390167	0.2	0.197	2023207	
47	1024-b-22	20-232-08	261310	0.21	0.213	2023208	
48	1024-b-13	20-232-09	295110	0.21	0.213	2023209	
49	1024-b-57	20-232-13	401351	0.21	0.212	2023213	
50	1024-b-84	20-233-15	390164	0.22	0.219	2023315	
50a	1024-b-34	20-233-14	402711	0.22	0.218	2023314	
50b	1024-b-79	20-232-18	261310	0.2	0.197	2023218	
51	1024-a-75	20-232-22	385271	0.18	0.184	2023222	
52	1024-a-15	20-233-23	400755	0.21	0.213	2023323	
53	1024-a-63	20-231-04	385271	0.18	0.184	2023104	
54	1024-a-78	20-234-01	261310	0.21	0.212	2023401	
55	1024-a-82	20-234-05	305697	0.18	0.184	2023405	
56	1024-b-36	20-234-06	263214	0.21	0.213	2023406	
56a	1024-b-51	20-234-07	270047		0.197	2023407	need deed
57	1024-b-24	20-234-09	262008	0.21	0.213	2023409	
58	1024-b-30	20-234-11	261310	0.21	0.213	2023411	
59	1024-b-77	20-234-12	401930	0.21	0.212	2023412	
60	1024-b-25	20-234-17	401929	0.21	0.213	2023417	
61	1024-b-31	20-234-19	269246	0.21	0.213	2023419	
62	1024-a-42	20-234-20	283942	0.18	0.184	2023420	

Table 3: AB-380 Program Parcels

ID No.	TCID No [Deed].	APN No. [Deed]	Deed No.	Aces [Deed]	Acre [Mapped]	APN No. Mapped	Notes
63	1024-a-31	20-234-23	394839	0.21	0.213	2023423	
64	1024-a-60	20-231-06	401657	0.18	0.181	2023106	
65	1024-a-36	20-231-07	261310	0.18	0.181	2023107	
66	1024-a-38	20-231-08	349467	0.18	0.181	2023108	
67	1024-a-28	20-231-09	261310	0.18	0.184	2023109	
68	1024-a-22	20-235-24	261310	0.19	0.201	2023524	
69	1024-a-21	20-235-02	261310	0.21	0.213	2023502	
70	1024-a-98	20-235-03	402712	0.18	0.184	2023503	
71	1024-a-46	20-235-05	261310	0.18	0.184	2023505	
72	1024-b-62	20-235-07	385269	0.2	0.197	2023507	
73	1024-b-85	20-235-08	400754	0.21	0.213	2023508	
74	1024-b-74	20-235-09	321137	0.21	0.213	2023509	
75	1024-b-75	20-235-10	390984	0.18	0.184	2023510	
76	1024-b-67	20-235-12	395511	0.21	0.212	2023512	
77	Not Mapped						
78	1024-b-80	20-233-10	263221	0.22	0.213	2022310	
79	1024-b-58	20-233-09	261310	0.23	0.22	2023309	
80	1024-b-35	20-233-05	387119	0.19	0.192	2023305	
80a	1024-b-46	20-235-17	261310	0.21	0.213	2023517	
80b	1024-b-72	20-235-15	261310	0.18	0.184	2023515	
81	1024-b-73	20-233-02	337850	0.2	0.197	2023302	
82	1024-a-30	20-231-18	361310	0.2	0.201	2023118	
83	1024-a-32	20-231-15	400772	0.21	0.209	2023115	
84	1019-h-h-h	20-417-01	261310	0.44	0.443	2041701	
84a	1019-d-d-d	20-417-05	342728	0.14	0.137	2041705	
85	1019-z-z	20-417-09	261310	0.16	0.165	2041709	
86	1019-y-y	20-417-10	284450	0.16	0.163	2041710	
87	1019-x-x	20-418-01	269248	0.16	0.163	2041801	
88	1019-m-m	20-418-02	285939	0.27	0.138	2041802	
89	1019-v-v	20-418-03	261310	0.14	0.138	2041803	
90	1019-t-t	20-418-05	261310	0.14	0.138	2041805	
91	1019-s-s	20-418-06	261310	0.16	0.165	2041806	
92	1019-o-o	20-418-10	261310	0.14	0.138	2041810	
93	1019-k-k-k	20-415-01	402712	0.13	0.127	2041501	
94	1019-i-i-i	20-416-01	261310	0.11	0.108	2041601	

Table 3: AB-380 Program Parcels

ID No.	TCID No [Deed].	APN No. [Deed]	Deed No.	Aces [Deed]	Acre [Mapped]	APN No. Mapped	Notes
95	1019-k-k	20-412-25	261310	0.11	0.107	2041225	
96	1019-j-j	20-412-24	261310	0.11	0.11	2041224	
97	1019-i-i	20-412-23	402712	0.11	0.11	2041223	
				26.79	27.753		



Base Map obtained from City of Fernley, labeled "City of Fernley Parcel Master" updated February 21, 2007.

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Mapping Approach

- Obtain digital copy of City of Fernley Parcel Master [BASE Map)
- Obtain copy of Carson River Subconservancy database of "retired" water rights
- Assign each parcel a reference Number
- Research each reference number to determine location, TCID no., APN No., Acreage, duty, and acre-feet
- Create information binder with all available references [including deeds if available]
- Map location of AB-380 parcels on Base Map. Document ID No., TCID No., Acreage listed in deed, acreage mapped, and note discrepancies. Track information in table

SCALE

400 0 200 400 800 1,600 FEET

1 Inch = 400 ft.

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Figure 4
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June 20, 2008

City of Fernley Mapping Effort - AB 380 Parcels
Section 13, Township 20 North, Range 24 E. M.D.B.&M.
AB 380 Parcels On File with Carson River Subconservancy

LYON COUNTY NEVADA

3.5 City of Fernley "Unfiled" Water Rights

The City of Fernley has acquired approximately 9700 acre-feet (as of June 2008) of surface water rights through deeds from water rights owners over the previous 30 years. The City of Fernley deed files were obtained and compiled in a Access database. The deeds were cross referenced against current change applications, and those deeds without current change applications were identified. The deeds relating to section 13 without active change applications were sorted out.

Table 4: City of Fernley Un-Filed Water Rights lists the parcels which did not have active change application submitted to DWR to change the place of use and manner of use of the water rights.

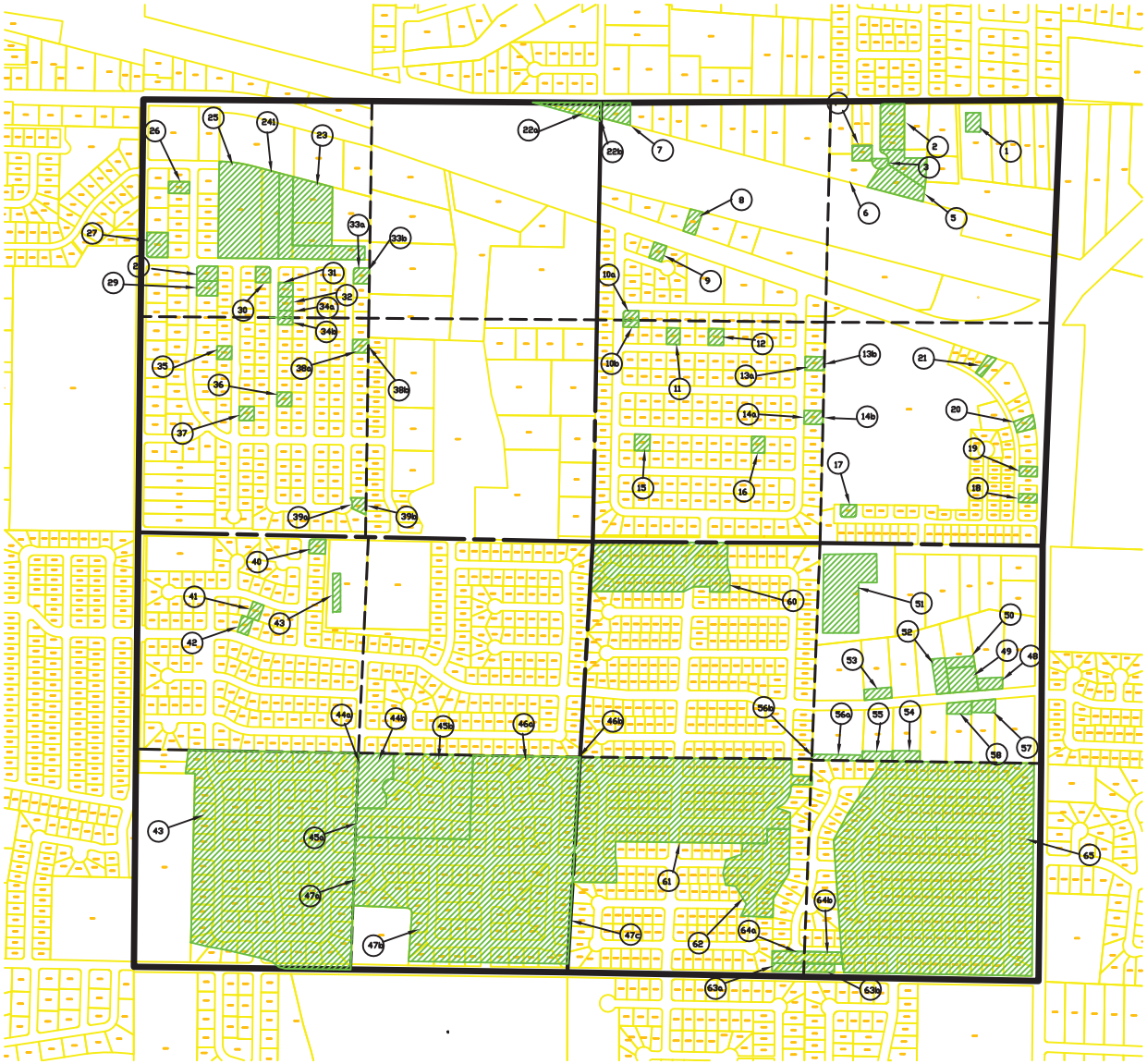
Based on the information included in Table 4 the acreage depicted in the "Un-Filed" City of Fernley Water rights was mapped. Figure 5, Section 13 City of Fernley "Un-filed" Water Rights, is the AutoCAD map of Section 13 depicting the location of un-filed water rights.

Table 4: City of Fernley Un-Filed Water Rights

ID No	Lyon County APN [in Deed]	TCID Serial No.	Deed No..	Qrt.	Qrt.	Section	Township	Range	Acre	Duty	Acre Feet
1	21-101-05	1020-6	226236	NE	NE	13	20 N.	24 E.	0.24	4.5	1.08
2	21-101-28	1020-4-a-1	222269	NE	NE	13	20 N.	24 E.	0.93	4.5	4.185
3	Roadway	1020-4	248089	NE	NE	13	20 N.	24 E.	0.12	4.5	0.54
4	21-101-31	1020-4-b-2	196437	NE	NE	13	20 N.	24 E.	0.2489	4.5	1.12
5	21-101-26	1020-4-a-3	245389	NE	NE	13	20 N.	24 E.	0.93	4.5	4.185
6	21-101-23	1020-4	170512	NE	NE	13	20 N.	24 E.	0.746	4.5	3.357
7	21-101-02	1024-5-d	208599	NW	NE	13	20 N.	24 E.	0.5	4.5	2.25
8	21-102-11	1024-1-a	201140	NW	NE	13	20 N.	24 E.	0.25	4.5	1.125
9	20-222-15	1024-a-89	247564	NW	NE	13	20 N.	24 E.	0.18	4.5	0.81
10a	20-223-01	1024-a-95	211640	NW	NE	13	20 N.	24 E.	0.12	4.5	0.54
10b	20-223-01	1024-a-95	211640	SW	NE	13	20 N.	24 E.	0.09	4.5	0.405
11	20-223-21	1024-a-57	330026	SW	NE	13	20 N.	24 E.	0.18	4.5	0.81
12	20-223-18	1024-b-1	221039	SW	NE	13	20 N.	24 E.	0.21	4.5	0.945
13	20-224-05	1024-b-59	226244	SW	NE	13	20 N.	24 E.	0.22	4.5	0.99
14	20-233-16	1024-b-48	249628	SW	NE	13	20 N.	24 E.	0.22	4.5	0.99
15	20-234-02	1024-a-54	210577	SW	NE	13	20 N.	24 E.	0.21	4.5	0.945
16	20-234-10	1024-b-41	246430	SW	NE	13	20 N.	24 E.	0.18	4.5	0.81
17	20-413-01	1019-o-o-o	261017	SE	NE	13	20 N.	24 E.	0.16	4.5	0.72
18	20-411-03	1019-c	214039	SE	NE	13	20 N.	24 E.	0.13	4.5	0.585
19	20-411-06	1019-f	219037	SE	NE	13	20 N.	24 E.	0.15	4.5	0.675
20	20-411-10	1019-j	146382	SE	NE	13	20 N.	24 E.	0.21	4.5	0.945
21	20-421-03	1019-r-r-r	219035	SE	NE	13	20 N.	24 E.	0.15	4.5	0.675
22	21-101-01	1025-8	248515	NE	NW	13	20 N.	24 E.	0.53	4.5	2.385
23	20-102-09	1028-5	310979	NW	NW	13	20 N.	24 E.	2.135	4.5	9.6075
24	20-102-11 20-102-10	1028-5	320817	NW	NW	13	20 N.	24 E.	4.73	4.5	21.285
25	2010207	1028-5-a	256081	NW	NW	13	20 N.	24 E.	1.81	4.5	8.145
26	20-072-14	1028-1-a-a	202887	NW	NW	13	20 N.	24 E.	0.21	4.5	0.945
27	20-072-05	1028-1-m	215510	NW	NW	13	20 N.	24 E.	0.44	4.5	1.98
28	20-081-10	1028-1-g-3-g	230937	NW	NW	13	20 N.	24 E.	0.26	4.5	1.17
29	20-081-09	1028-1-g-2-g	223858	NW	NW	13	20 N.	24 E.	0.26	4.5	1.17
30	20-127-01	1028-3-8	215513	NW	NW	13	20 N.	24 E.	0.19	4.5	0.855
31	20-125-22	1028-3-30	228576	NW	NW	13	20 N.	24 E.	0.17	4.5	0.765
32	20-125-23	1028-3-32	228576	NW	NW	13	20 N.	24 E.	0.17	4.5	0.765
33	20-121-12	1028-3-a-9	244576	NW	NW	13	20 N.	24 E.	0.21	4.5	0.945
34a	20-125-21	1028-3-31	271190	NW	NW	13	20 N.	24 E.	0.85	4.5	0.383
34b	20-125-21	1028-3-31	271190	SW	NW	13	20 N.	24 E.	0.85	4.5	0.383
35	20-092-07	1028-2-n	275074	SW	NW	13	20 N.	24 E.	0.17	4.5	0.765
36	20-125-15	1028-3-22	196870	SW	NW	13	20 N.	24 E.	0.17	4.5	0.765

Table 4: City of Fernley Un-Filed Water Rights

ID No	Lyon County APN [in Deed]	TCID Serial No.	Deed No..	Qrt.	Qrt.	Section	Township	Range	Acre	Duty	Acre Feet
37	20-091-02	1028-2-h-h	261084	SW	NW	13	20 N.	24 E.	0.18	4.5	0.81
38	20-121-07	1028-3-a-36	247564	SW	NW	13	20 N.	24 E.	0.18	4.5	0.81
39	20-124-14	1028-3-a-42	248090	SW	NW	13	20 N.	24 E.	0.16	4.5	0.72
40	20-192-11	1026-a-56-e	235274	NW	SW	13	20 N.	24 E.	0.2	4.5	0.9
41	20-193-04	1026-a-56	337033	NW	SW	13	20 N.	24 E.	0.16	4.5	0.72
42	20-193-12	1026-a-18	239968	NW	SW	13	20 N.	24 E.	0.16	4.5	0.72
42a	20-213-01	1026-4	233184	NW	SW	13	20 N.	24 E.	0.25	4.5	1.125
43	21-121-14	1017-a	342342	SW	SW	13	20 N.	24 E.	28.76	4.5	129.42
44	21-121-09	1017-1-b	324476	SE	SW	13	20 N.	24 E.	4.48	4.5	6.66
45	21-121-10	1017-1-b-1	341031	SE	SW	13	20 N.	24 E.	6.71	4.5	30.195
46	20-841-03, 21-121-08	1017-1	313742, 292747, 278853	SE	SW	13	20 N.	24 E.	27.686	4.5	124.587
47	-Blank -										
48	21-111-08	1021-1	198706	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
49	21-111-09	1021-1-j	248787	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
50	21-111-09	1021-1-j	171035	NE	SE	13	20 N.	24 E.	0.6	4.5	2.7
51	21-111-02	1022	171592	NE	SE	13	20 N.	24 E.	2.8	4.5	12.6
52	21-111-10	1021-1-h	171035	NE	SE	13	20 N.	24 E.	0.4	4.5	1.8
53	21-111-12	1021-1-e	244578	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
54	21-111-16	1021-1-1	281717	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
55	21-111-15	1021-1-i-1	293953	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
56	21-111-14	1021-1-b	243572	NE	SE	13	20 N.	24 E.	0.25	4.5	1.125
57	21-111-19	1021-1-c-1	170645	NE	SE	13	20 N.	24 E.	0.2489	4.5	1.12
58	21-111-18	1021-1-c	170644	NE	SE	13	20 N.	24 E.	0.2489	4.5	1.12
59	-Blank -										
60	21-111-01	1023	192965	NW	SE	13	20 N.	24 E.	5.67	4.5	25.515
61	21-111-32	1023	251167	SW	SE	13	20 N.	24 E.	17.3	4.5	77.85
62	21-111-36	1023-b	261082	SW	SE	13	20 N.	24 E.	3.58	4.5	16.11
63	21-111-37	1023-a	261080	SW	SE	13	20 N.	24 E.	0.44	4.5	1.98
64a	21-111-35	1023-c	261081	SW	SE	13	20 N.	24 E.	0.32	4.5	1.44
64b	21-111-35	1023-c	261081	SE	SE	13	20 N.	24 E.	0.37	4.5	1.665
65	21-111-21, 21-111-35	1027-1	290818, 302550, 275769	SE	SE	13	20 N.	24 E.	29.12	4.5	131.04
									151.0537		659.357



Base Map obtained from City of Fernley, labeled "City of Fernley Parcel Master" updated February 21, 2007.

Autodesk AutoCAD 2007 lt

Mapping Approach

- Obtain digital copy of City of Fernley Parcel Master (BASE Map)
- Obtain copies of all City of Fernley Deeds requiring change applications• Assign each deed parcel a reference number.
- Research each reference number to determine location, TCID no., APN No. Acreage, duty, and acre-feet
- Create information binder with all available references
- Map location of Document ID No., TCID No., Acreage listed
- Document information in Table

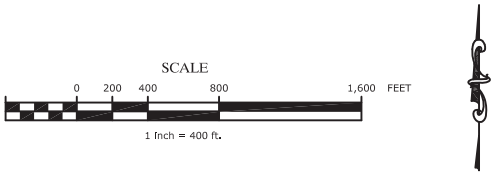


Figure 5
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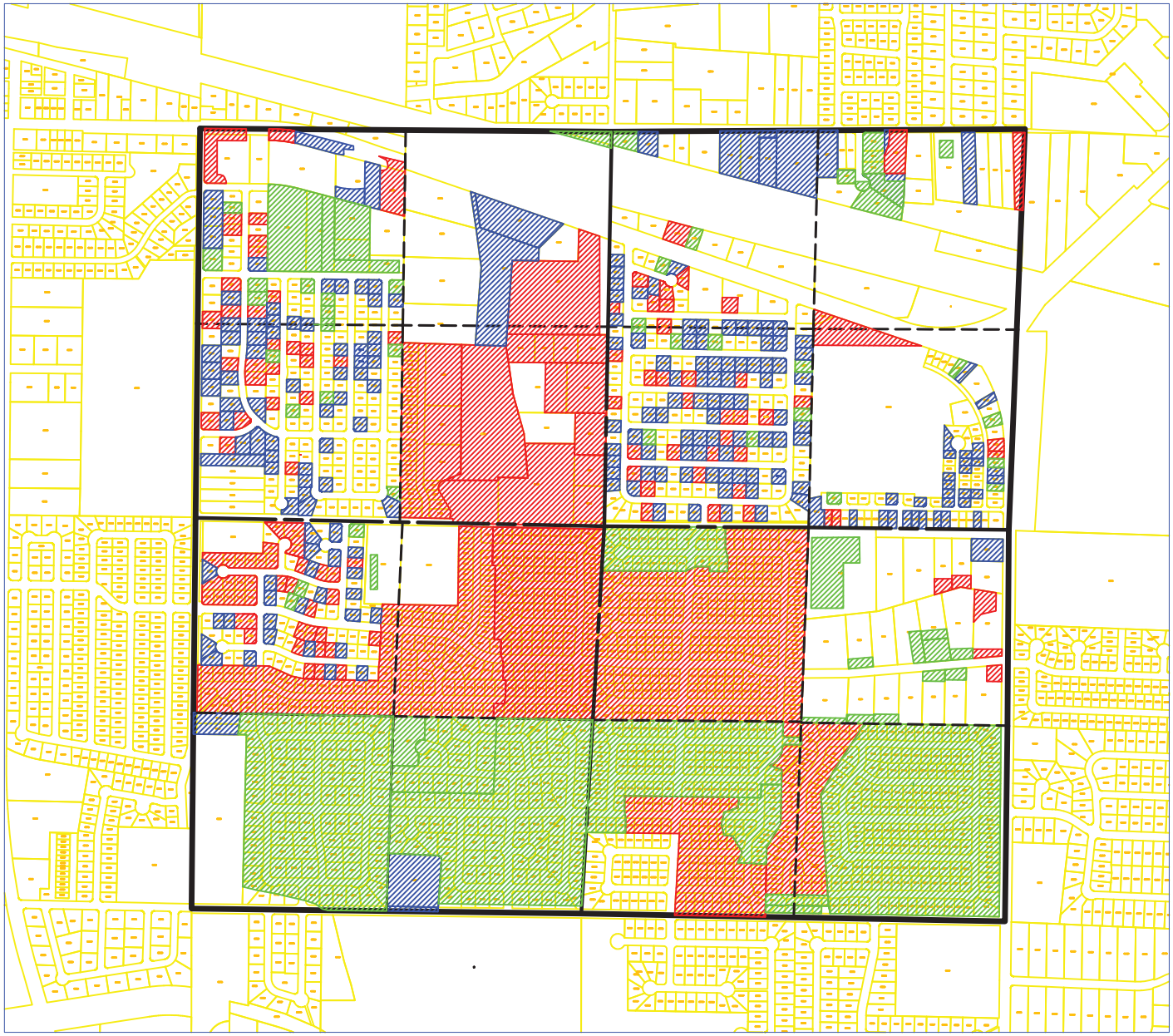
June 20, 2008

City of Fernley Mapping Effort:
Future Change Applications
Section 13, Township 20 North, Range 24 E. M.D.B.&M.

LYON COUNTY NEVADA

3.6 Combined Mapping

A critical element in this mapping effort was to ensure that the locations of all water rights removed from irrigation in Section 13 do not conflict or overlap with each other. Figure 6, DWR change application locations, AB-380 retired water rights locations, and City of Fernley "unfiled" water rights are shown mapped on the same AutoCAD database.



State Engineer Active Change Applications

AB-380 Program "Retired" Water Rights

City of Fernley remaining Water Rights for applications based on this effort

SCALE

400 0 200 400 800 1,600 FEET

1 inch = 400 ft.

Figure 6
Page 25

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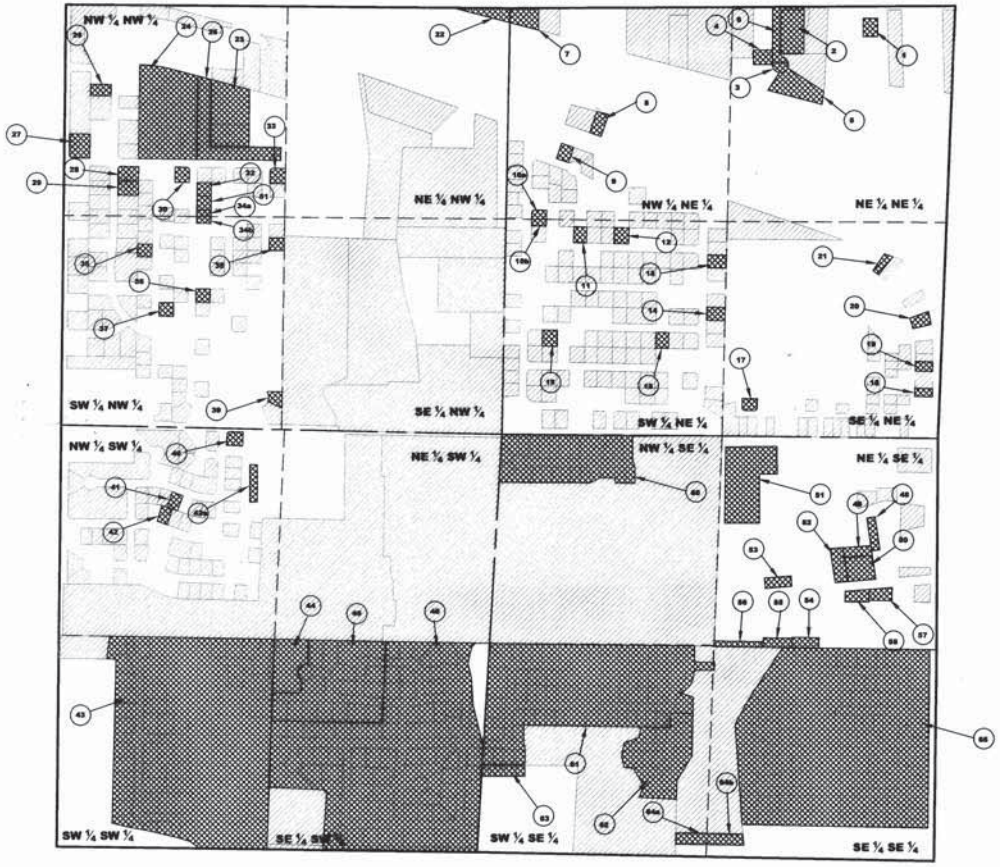
June 20, 2008

City of Fernley Mapping Effort: Current Change Applciations, AB-380 Parcels, & City of Fernley remaining water rights
Section 13, Township 20 North, Range 24 E. M.D.B.&M.

LYON COUNTY NEVADA

3.7 Resulting Change Applications

Based on the mapping initiative addressed in this report, the City of Fernley requested that a change application and associated map be prepared and submitted to DWR to change the place of use and manner of use of the "un-filed" water rights in Section 13. Figure 7, Change application 76292 Map, was filed September 18, 2007 [not part of SB-62 funded project]. The change application map utilized the researched data and base map to indentify locations of previous applications and AB-380 parcels. The change application and map have been processed by the DWR and is currently "Ready for Action – Protested"



SECTION 13, TOWNSHIP 20 NORTH, RANGE 24 EAST, M.D.B.&M.

SEE SHEET 2 OF 2 FOR EXISTING PLACE OF USE TABLE

STATE OF NEVADA
COUNTY OF CARSON CITY } SS

I, MICHAEL A. STANKA, BEING FIRST DULY SWORN, DEPOSE AND SAY THAT THIS MAP, CONSISTING OF TWO SHEETS, NUMBERED 1 TO 2, INCLUSIVE, HAS BEEN CORRECTLY DRAWN TO THE DESIGNATED SCALE, UNDER MY SUPERVISION AND DIRECTION, RELYING UPON ANALYSIS OF RECORDED SURVEY DOCUMENTS AND OTHER DOCUMENTS IN THE LYON COUNTY RECORDER'S OFFICE, THE TRUCKEE CARSON IRRIGATION DISTRICT, THE US BUREAU OF RECLAMATION, AND THE NEVADA DIVISION OF WATER RESOURCES. THAT THIS MAP TRULY AND CORRECTLY REPRESENTS THE EXISTING AND PROPOSED PLACE OF USE OF A PORTION OF TRUCKEE RIVER CLAIM NUMBER THREE, AS DESCRIBED IN THAT PARTICULAR DOCUMENT ENTITLED UNITED STATES VS. ORR DITCH COMPANY ET AL, FOR MUNICIPAL AND DOMESTIC PURPOSES.

9-13-2007

Michael A. Stanka, SWRS # 1182

PROFESSIONAL ENGINEER - STATE OF NEVADA
MICHAEL A. STANKA
Exp. 6-30-10
No. 18313

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 13th DAY OF September, 2007.

NOTARY PUBLIC IN AND FOR Carson City County, NV

MY COMMISSION EXPIRES 6-6-2011

NOTARY PUBLIC STATE OF NEVADA

PROPOSED PLACE OF USE

THE PROPOSED PLACE OF USE IS THE CITY OF FERNLEY AS DESCRIBED ON THE MAP SUBMITTED WITH APPLICATION 71382, ON FILE AT THE NEVADA DIVISION OF WATER RESOURCES

POINT OF DIVERSION

THE POINT OF DIVERSION IS DERBY DAM, SITUATED WITHIN THE N ½, SW ¼ SECTION 19, T. 20 N., R. 23 E., M.D.B. & M.(UNCHANGED).

Existing Place of Use

Acerage subject to previous Change Applications or retirement of water rights

SCALE
0 200 400 800 1,600 FEET
1 inch = 400 ft.

Stankaconsulting/plots/section13.001.dwg

September 13, 2007 Sheet 1 of 2

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108 N. Minnesota Street
Carson City NV 89703
(775) 841-2266
Stankaconsulting@aol.com

FILED
SEP 18 2007
STATE ENGINEER'S OFFICE

76292

MAP TO ACCOMPANY APPLICATION TO CHANGE THE PLACE OF USE AND MANNER OF USE OF A PORTION OF CLAIM #3 OF THE TRUCKEE RIVER DECREE
FOR
MUNICIPAL AND DOMESTIC PURPOSES
BY
THE CITY OF FERNLEY, NEVADA
FROM
THE TRUCKEE RIVER

LYON COUNTY NEVADA

76292

Existing Place of Use Table

ID No	Lyon County APN [in Deed]	TCID Serial No.	Deed No..	Qrt.	Qrt.	Section	Township	Range	Acre	Duty	Acre Feet
1	2110115	1020-6	226236	NE	NE	13	20 N.	24 E.	0.24	4.5	1.08
2	2110128	1020-4-a-1	222269	NE	NE	13	20 N.	24 E.	0.93	4.5	4.19
3	Roadway	1020-4	248089	NE	NE	13	20 N.	24 E.	0.12	4.5	0.54
4	2110131	1020-4-b-2	196437	NE	NE	13	20 N.	24 E.	0.2489	4.5	1.12
5	2110126	1020-4-a-3	245389	NE	NE	13	20 N.	24 E.	0.93	4.5	4.19
6	2110123	1020-4	170512	NE	NE	13	20 N.	24 E.	0.49	4.5	2.21
7	2110102	1024-5-d	208599	NW	NE	13	20 N.	24 E.	0.47	4.5	2.12
8	2110211	1024-1-a	201140	NW	NE	13	20 N.	24 E.	0.25	4.5	1.13
9	2022215	1024-a-89	247564	NW	NE	13	20 N.	24 E.	0.18	4.5	0.81
10a	2022301	1024-a-95	211640	NW	NE	13	20 N.	24 E.	0.12	4.5	0.54
10b	2022301	1024-a-95	211640	SW	NE	13	20 N.	24 E.	0.09	4.5	0.41
11	2022321	1024-a-57	330026	SW	NE	13	20 N.	24 E.	0.18	4.5	0.81
12	2022318	1024-b-1	221039	SW	NE	13	20 N.	24 E.	0.21	4.5	0.95
13	2022405	1024-b-59	226244	SW	NE	13	20 N.	24 E.	0.22	4.5	0.99
14	2023316	1024-b-48	249628	SW	NE	13	20 N.	24 E.	0.22	4.5	0.99
15	2023402	1024-a-54	210577	SW	NE	13	20 N.	24 E.	0.21	4.5	0.95
16	2023410	1024-b-41	246430	SW	NE	13	20 N.	24 E.	0.18	4.5	0.81
17	2041301	1019-o-o-o	261017	SE	NE	13	20 N.	24 E.	0.16	4.5	0.72
18	2041103	1019-c	214039	SE	NE	13	20 N.	24 E.	0.13	4.5	0.59
19	2041106	1019-f	219037	SE	NE	13	20 N.	24 E.	0.15	4.5	0.68
20	2041110	1019-j	146382	SE	NE	13	20 N.	24 E.	0.21	4.5	0.945
21	2042103	1019-r-r-r	219035	SE	NE	13	20 N.	24 E.	0.15	4.5	0.68
22	2110101	1025-8	248515	NE	NW	13	20 N.	24 E.	0.37	4.5	1.67
23	2010209	1028-5	310979	NW	NW	13	20 N.	24 E.	2.135	4.5	9.61
24	2010211 2010210	1028-5	320817	NW	NW	13	20 N.	24 E.	4.73	4.5	21.28
25	2010207	1028-5-a	256081	NW	NW	13	20 N.	24 E.	1.81	4.5	8.15
26	2007214	1028-1-a-a	202887	NW	NW	13	20 N.	24 E.	0.21	4.5	0.945
27	2007205	1028-1-m	215510	NW	NW	13	20 N.	24 E.	0.44	4.5	1.98
28	2008110	1028-1-g-3-g	230937	NW	NW	13	20 N.	24 E.	0.26	4.5	1.17
29	2008109	1028-1-g-2-g	223858	NW	NW	13	20 N.	24 E.	0.26	4.5	1.17
30	2012701	1028-3-8	215513	NW	NW	13	20 N.	24 E.	0.19	4.5	0.86
31	2012522	1028-3-30	228576	NW	NW	13	20 N.	24 E.	0.17	4.5	0.77
32	2012523	1028-3-32	228576	NW	NW	13	20 N.	24 E.	0.17	4.5	0.77
33	2012112	1028-3-a-9	244576	NW	NW	13	20 N.	24 E.	0.21	4.5	0.95
34a	2012521	1028-3-31	271190	NW	NW	13	20 N.	24 E.	0.085	4.5	0.385
34b	2012521	1028-3-31	271190	SW	NW	13	20 N.	24 E.	0.085	4.5	0.385
35	2009207	1028-2-n	275074	SW	NW	13	20 N.	24 E.	0.17	4.5	0.77
36	2012515	1028-3-22	196870	SW	NW	13	20 N.	24 E.	0.17	4.5	0.765
37	2009102	1028-2-h-h	261084	SW	NW	13	20 N.	24 E.	0.18	4.5	0.81
38	2012107	1028-3-a-36	247564	SW	NW	13	20 N.	24 E.	0.18	4.5	0.81
39	2012414	1028-3-a-42	248090	SW	NW	13	20 N.	24 E.	0.16	4.5	0.72
40	2019211	1026-a-56-e	235274	NW	SW	13	20 N.	24 E.	0.20	4.5	0.90
41	2019304	1026-a-56	337033	NW	SW	13	20 N.	24 E.	0.16	4.5	0.72
42	2019312	1026-a-18	239968	NW	SW	13	20 N.	24 E.	0.16	4.5	0.72
42a	2021301	1026-4	233184	NW	SW	13	20 N.	24 E.	0.25	4.5	1.12
43	2112114	1017-a	342342	SW	SW	13	20 N.	24 E.	28.76	4.5	129.42
44	2112109	1017-1-b	324476	SE	SW	13	20 N.	24 E.	1.48	4.5	6.66
45	2112110	1017-1-b-1	341031	SE	SW	13	20 N.	24 E.	6.71	4.5	30.2
46	2084103, 2112108	1017-1	313742, 292747	SE	SW	13	20 N.	24 E.	27.686	4.5	124.6
47	-Blank -										
48	2111108	1021-1	198706	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
49	2111109	1021-1-j	248787	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
50	2111109	1021-1-j	171035	NE	SE	13	20 N.	24 E.	0.6	4.5	2.7
51	2111102	1022	171592	NE	SE	13	20 N.	24 E.	2.8	4.5	12.6
52	2111110	1021-1-h	171035	NE	SE	13	20 N.	24 E.	0.4	4.5	1.8
53	2111112	1021-1-e	244578	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
54	2111116	1021-1-i	281717	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
55	2111115	1021-1-i-1	293953	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
56	2111114	1021-1-b	243572	NE	SE	13	20 N.	24 E.	0.25	4.5	1.12
57	2111119	1021-1-c-1	170645	NE	SE	13	20 N.	24 E.	0.2489	4.5	1.12
58	2111118	1021-1-c	170644	NE	SE	13	20 N.	24 E.	0.2489	4.5	1.12
59	-Blank -										
60	2111101	1023	192965	NW	SE	13	20 N.	24 E.	5.67	4.5	25.515
61	2111132	1023	251167	SW	SE	13	20 N.	24 E.	16.45	4.5	74.025
62	2111136	1023-b	261082	SW	SE	13	20 N.	24 E.	3.58	4.5	16.11
63	2111137	1023-a	261080	SW	SE	13	20 N.	24 E.	0.44	4.5	1.98
64a	2111135	1023-c	261081	SW	SE	13	20 N.	24 E.	0.32	4.5	1.44
64b	2111135	1023-c	261081	SE	SE	13	20 N.	24 E.	0.37	4.5	1.67
65	2111121, 2111135	1027-1	290818, 302550	SE	SE	13	20 N.	24 E.	29.12	4.5	131.04
									145.2277		653.605

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September 13, 2007 Sheet 2 of 2

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MAP TO ACCOMPANY APPLICATION TO CHANGE THE PLACE OF USE AND MANNER OF USE OF A PORTION OF CLAIM #3 OF THE TRUCKEE RIVER DECREE
FOR
MUNICIPAL AND DOMESTIC PURPOSES
BY
THE CITY OF FERNLEY, NEVADA
FROM
THE TRUCKEE RIVER

LYON COUNTY NEVADA

76292

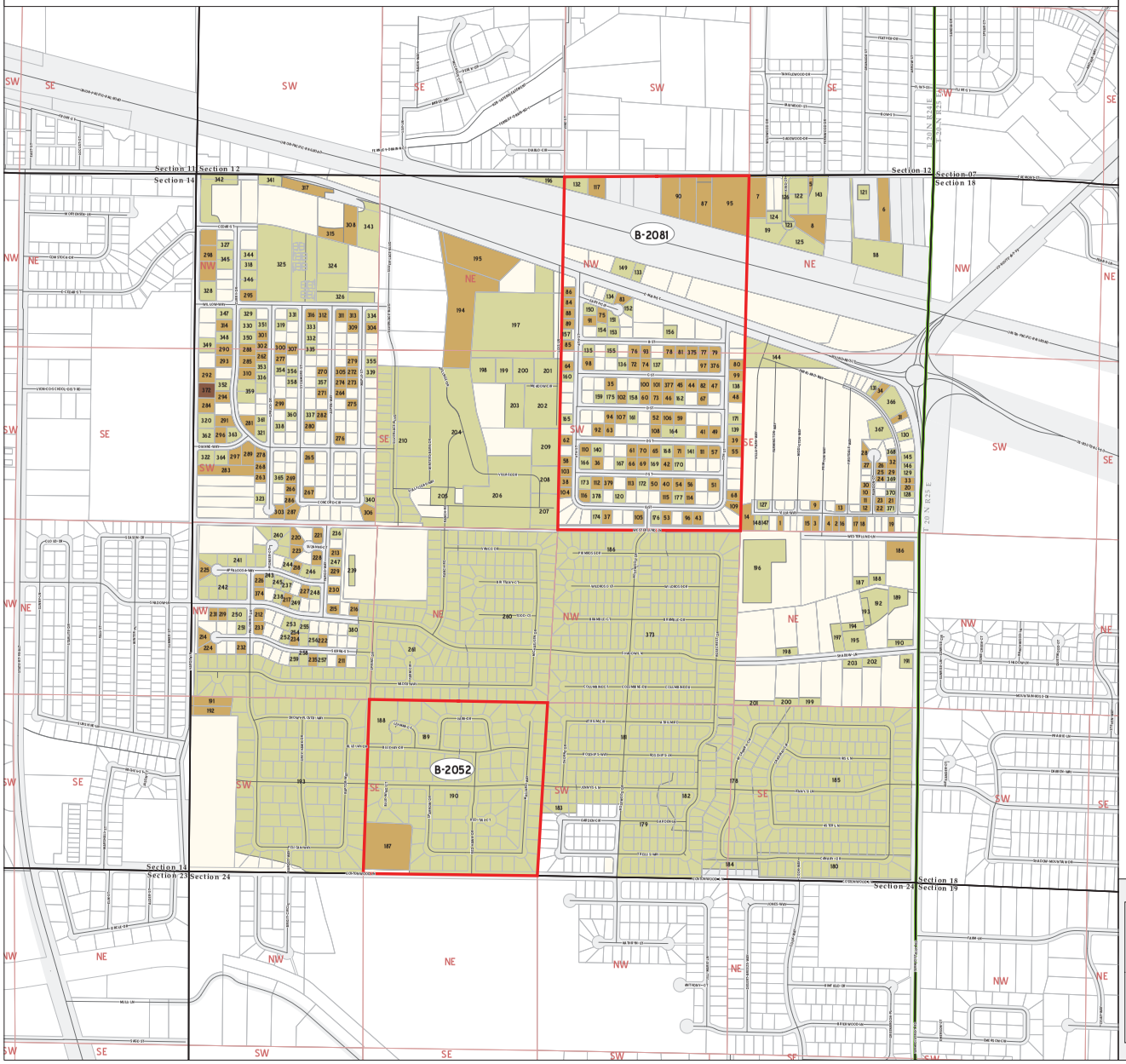
3.8 GIS database

Completing the mapping using AutoCAD programs and using the City of Fernley APN parcel base map was the most accurate method for mapping the DWR change applications, AB-380 retired water rights, and future City of Fernley change applications. Approximately 265 polygons with associated spreadsheet files where generated for Section 13. Based on discussions with DWR, it was requested that the areas removed from irrigation be balanced back to the original farm contracts. It was decided at this point to input the polygons of locations removed from irrigation into an ArcGIS data base and reference those to original farm contracts.

Original Farm Contracts, TCID maps, the Criddle Report, and the Chilton Report were used to define the locations and initial water rights for each Farm Contract. Farm Contracts are listed as water rights per quarter / quarter section. The AutoCAD database of DWR change applications, AB-380 retired water rights, and City of Fernley future application, as well as the City of Fernley APN database were inputted into the ArcGIS 9.0 program. Additionally, all the attributes of the associated excel files were referenced to the areas removed from irrigation as well as there base Farm Contract number.

Figure 8 through 11 are printouts of the GIS database per Farm Contracts with associated tables. Due to the quantity of data involved in section 13, four sheets where included instead of one to present the GIS database. There is a table for each farm contract which shows the initial water acreages and the acreage removed from irrigation through DWR change applications, AB-380 program retired water rights, and City of Fernley future applications. All data was reviewed and updated during the transformation from an AutoCAD platform to an ArcGIS platform and was updated accordingly. Of particular note is that almost all of the City of Fernley “To-Be filed” parcels have been updated and are included with the DWR change application parcels because the change applications had been submitted.

Farm Contract - B-2051, B-2081 - Section 13 Township 20 North, Range 24 East, M.D.B. & M.

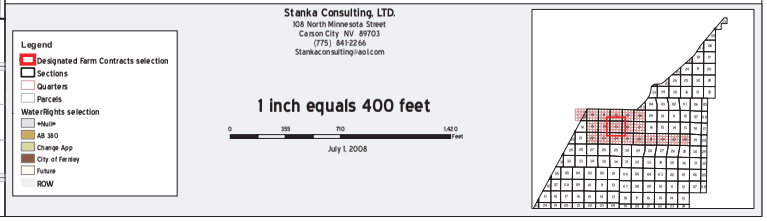


Farm Contract No. B-2052	
Water Rights(+)	39.00
AB380 (-)	-3.13
Change App. (-)	-36.059-0
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	-0.188-0

Farm Contract No. B-2081	
Water Rights(+)	67.00
AB380 (-)	-22.8
Change App. (-)	-9.2 748
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	34.1529

	ID No.	City Ap #	Deed No.	Date	Qty	Qrt	Section	Township	Range	APN	TOD	Acre
AB 380	187		264877	5/25/2004	SE	SW	13	20	24	21-121-02	10TF-1-A	3.13
Change App.	188	76292	324874	6/28/2004	SE	SW	13	20	24	21-121-09	10TF-1-B	.48
Change App.	189	76292	341051	1/21/2005	SE	SW	13	20	24	21-121-10	10TF-1-B-1	6.71
Change App.	190	76292	337142 292747 278853	2/8/2004 3/3/2005 6/26/2002	SE	SW	13	20	24	20-841-03 21-121-08 21-121-11 0-8	10TF-1	27.868

	ID No.	City Ap #	Deed No.	Date	Qty	Qrt	Section	Township	Range	APN	TOD	Acre
AB 380	35		317132	9/28/2004	SW	NE	11	20	24	20-121-03	10QR-A-1-B	0.8
AB 380	36		344139	11/5/2004	SW	NE	11	20	24	20-241-21	10QR-A-3-1	0.8
AB 380	37		401072	2/13/2007	SW	NE	11	20	24	20-231-15	10QR-A-3-2	0.8
AB 380	38		344140	4/28/2005	SW	NE	11	20	24	20-231-16	10QR-A-3-3	0.8
AB 380	39		361864	4/5/2006	SW	NE	11	20	24	20-231-15	10QR-B-4-4	0.22
AB 380	40		400114	2/13/2007	SW	NE	11	20	24	20-231-05	10QR-B-4-5	0.8
AB 380	41		401085	3/2/2007	SW	NE	11	20	24	20-231-14	10QR-B-4-6	0.8
AB 380	42		414911	3/7/2007	SW	NE	11	20	24	20-241-17	10QR-B-1-5	0.8
AB 380	43		361111	7/28/2006	SW	NE	11	20	24	20-231-05	10QR-B-3-1	0.9
AB 380	44		365270	6/28/2006	SW	NE	11	20	24	20-225-10	10QR-B-3-2	0.8
AB 380	45		369168	9/18/2006	SW	NE	11	20	24	20-225-09	10QR-B-4-1	0.8
AB 380	46		369168	9/18/2006	SW	NE	11	20	24	20-225-11	10QR-B-5-1	0.8
AB 380	47		382147	9/28/2006	SW	NE	11	20	24	20-225-12	10QR-B-5-2	0.8
AB 380	48		361862	5/5/2006	SW	NE	11	20	24	20-241-06	10QR-B-5-4	0.22
AB 380	49		400114	2/13/2007	SW	NE	11	20	24	20-231-11	10QR-B-1-1	0.8
AB 380	50		381148	6/28/2006	SW	NE	11	20	24	20-231-07	10QR-B-1-2	0.8
AB 380	51		11908	8/17/2006	SW	NE	11	20	24	20-231-12	10QR-B-1-7	0.8
AB 380	52		361867	9/5/2006	SW	NE	11	20	24	20-231-01	10QR-B-1-8	0.7
AB 380	53		337860	10/18/2004	SW	NE	11	20	24	20-231-02	10QR-B-7-1	0.2
AB 380	54		11917	10/10/2004	SW	NE	11	20	24	20-231-03	10QR-B-7-6	0.8
AB 380	55		401131	3/20/2007	SW	NE	11	20	24	20-231-16	10QR-B-3-6	0.22
AB 380	56		369168	9/18/2006	SW	NE	11	20	24	20-231-10	10QR-B-7-5	0.8
AB 380	57		401103	3/7/2007	SW	NE	11	20	24	20-241-02	10QR-B-7-7	0.8
AB 380	58		401107	3/2/2007	SW	NE	11	20	24	20-231-06	10QR-A-1-1	0.8
AB 380	59		399103	4/28/2005	SW	NE	11	20	24	20-231-09	10QR-B-1-1	0.8
AB 380	60		399109	4/28/2005	SW	NE	11	20	24	20-231-11	10QR-A-1-1	0.8
AB 380	61		400677	1/24/2007	SW	NE	11	20	24	20-241-05	10QR-A-1-2	0.8
AB 380	62		365271	6/28/2006	SW	NE	11	20	24	20-221-04	10QR-A-1-3	0.8
AB 380	63		365271	6/28/2006	SW	NE	11	20	24	20-231-12	10QR-A-1-4	0.8
AB 380	64		370047	12/8/2006	SW	NE	11	20	24	20-221-09	10QR-A-7-1	0.8
AB 380	65		370047	12/8/2006	SW	NE	11	20	24	20-221-07	10QR-B-5-1	0.2
AB 380	66		381148	10/5/2006	SW	NE	11	20	24	20-241-03	10QR-A-4-1	0.8
AB 380	67		376473	6/27/2006	SW	NE	11	20	24	20-231-14	10QR-A-6-2	0.8
AB 380	68		381321	7/10/2006	SW	NE	11	20	24	20-231-15	10QR-B-6-1	0.22
AB 380	69		398168	12/1/2006	SW	NE	11	20	24	20-241-15	10QR-B-1-1	0.8
AB 380	70		361184	7/10/2006	SW	NE	11	20	24	20-231-08	10QR-B-3-1	0.8
AB 380	71		361181	6/27/2006	SW	NE	11	20	24	20-241-09	10QR-B-1-4	0.8
AB 380	72		361863	5/5/2006	SW	NE	11	20	24	20-221-10	10QR-B-1-5	0.8
AB 380	73		361441	10/10/2006	SW	NE	11	20	24	20-241-14	10QR-A-6-1	0.8
AB 380	74		361441	10/10/2006	SW	NE	11	20	24	20-241-14	10QR-A-6-2	0.8
AB 380	75		381135	5/28/2005	NW	NE	11	20	24	20-221-05	10QR-A-4-1	0.8
AB 380	76		376705	1/7/2006	NW & SW	NE	11	20	24	20-221-03	10QR-A-5-1	0.8
AB 380	77		398142	11/1/2006	NW & SW	NE	11	20	24	20-221-11	10QR-B-1-1	0.8
AB 380	78		398170	5/3/2006	NW & SW	NE	11	20	24	20-221-08	10QR-B-1-3	0.8
AB 380	79		400113	1/7/2007	NW & SW	NE	11	20	24	20-221-12	10QR-B-1-1	0.8
AB 380	80		370044	3/13/2006	SW	NE	11	20	24	20-221-13	10QR-B-4-1	0.22
AB 380	81		401131	3/17/2006	NW & SW	NE	11	20	24	20-221-01	10QR-B-4-1	0.8
AB 380	82		11914	4/5/2006	SW	NE	11	20	24	20-221-14	10QR-B-7	0.8
AB 380	83		414844	5/18/2004	NW	NE	11	20	24	20-221-16	10QR-A-7-1	0.26
AB 380	84		315049	11/5/2004	NW	NE	11	20	24	20-221-03	10QR-A-6-1	0.8
AB 380	85		382148	9/28/2006	NW	NE	11	20	24	20-221-07	10QR-A-6-1	0.8
AB 380	86		361932	7/28/2006	NW	NE	11	20	24	20-221-02	10QR-A-5-1	0.8
AB 380	87		361931	8/28/2006	NW	NE	11	20	24	20-221-01	10QR-A-5-2	0.87
AB 380	88		361912	8/17/2006	NW	NE	11	20	24	20-221-06	10QR-A-6-0	0.8
AB 380	89		361370	9/28/2006	NW	NE	11	20	24	20-221-05	10QR-A	0.8
										8-10-07 27	10A-6 10QR-	
AB 380	90		398168	12/1/2006	NW	NE	11	20	24	10QR	9-11	0.17
AB 380	91		396019	4/7/2007	NW	NE	11	20	24	20-221-04	10QR-A-5-0	0.8
AB 380	92		400755	2/13/2007	SW	NE	11	20	24	20-231-21	10QR-A-1-5	0.8
AB 380	93		11915	4/5/2004	NW & SW	NE	11	20	24	20-221-15	10QR-A-7-1	0.8
AB 380	94		381137	5/28/2006	SW	NE	11	20	24	20-231-03	10QR-A-7-1	0.8
AB 380	95		361852	6/6/2006	SW	NE	11	20	24	20-231-13	10QR-B-4	0.78
AB 380	96		11928	10/18/2006	SW	NE	11	20	24	20-231-04	10QR-B-3	0.3
AB 380	97		248 813	5/20/2003	SW	NE	11	20	24	20-231-04	10QR-B-1	0.8
AB 380	98		248 813	5/20/2003	SW	NE	11	20	24	20-231-04	10QR-B-4-4	0.8
AB 380	99		248 813	5/20/2003	SW	NE	11	20	24	20-241-04	10QR-B-1-1	0.22
AB 380	100		248 813	5/20/2003	SW	NE	11	20	24	20-251-06	10QR-B-1-1	0.8
AB 380	101		248 813	5/20/2003	SW	NE	11	20	24	20-251-07	10QR-B-1-1	0.8
AB 380	102		248 813	5/20/2003	SW	NE	11	20	24	20-251-01	10QR-B-1-7	0.8
AB 380	103		248 813	5/20/2003	SW	NE	11	20	24	20-251-07	10QR-A-3-1	0.8
AB 380	104		248 813	5/20/2003	SW	NE	11	20	24	20-251-09	10QR-A-2-1	0.8
AB 380	105		248 813	5/20/2003	SW	NE	11	20	24	20-231-11	10QR-A-1-0	0.2
AB 380	106		248 813	5/20/2003	SW	NE	11	20	24	20-231-04	10QR-A-1-0	0.8
AB 380	107		248 813	5/20/2003	SW	NE	11	20	24	20-241-04	10QR-A-3-1	0.8
AB 380	108		248 813	5/20/2003	SW	NE	11	20	24	20-231-11	10QR-B-7-1	0.8
AB 380	109		248 813	5/20/2003	SW	NE	11	20	24	20-231-09	10QR-B-1-1	0.21
AB 380	110		248 813	5/20/2003	SW	NE	11	20	24	20-241-09	10QR-A-7-1	0.8
AB 380	111		248 813	5/20/2003	SW	NE	11	20	24	20-241-11	10QR-A-6-1	0.8
AB 380	112		248 813	5/20/2003	SW	NE	11	20	24	20-251-03	10QR-A-2-1	0.8
AB 380	113		248 813	5/20/2003	SW	NE	11	20	24	20-251-04	10QR-A-1-1	0.8
AB 380	114		248 813	5/20/2003	SW	NE	11	20	24	20-251-02	10QR-A-2-1	0.8
AB 380	115		248 813	5/20/2003	SW	NE	11	20	24	20-251-05	10QR-A-4-1	0.8
AB 380	116		248 813	5/20/2003	SW	NE	11	20	24	20-251-03	10QR-A-1-1	0.8
AB 380	117		248 813	5/20/2003	SW	NE	11	20	24	20-251-11	10QR-A-1-1	0.8
AB 380	118		248 813	5/20/2003	SW	NE	11	20	24	20-251-12	10QR-A-2-1	0.8
AB 380	119		248 813	5/20/2003	SW	NE	11	20	24	20-251-13	10QR-A-3-1	0.8
AB 380	120		248 813	5/20/2003	SW	NE	11	20	24	20-251-14	10QR-A-4-1	0.8
AB 380	121		248 813	5/20/2003	SW	NE	11	20	24	20-251-15	10QR-A-5-1	0.8
AB 380	122		248 813	5/20/2003	SW	NE	11	20	24	20-251-16	10QR-A-6-1	0.8
AB 380	123		248 813	5/20/2003	SW	NE	11	20	24	20-251-17	10QR-A-7-1	0.8
AB 380	124		248 813	5/20/2003	SW	NE	11	20	24	20-251-18	10QR-A-8-1	0.8
AB 380	125		248 813	5/20/2003	SW	NE	11	20	24	20-251-19	10QR-A-9-1	0.8
AB 380	126		248 813	5/20/2003	SW	NE	11	20	24	20-251-20	10QR-A-10-1	0.8
AB 380	127		248 813	5/20/2003	SW	NE	11	20	24	20-251-21	10QR-A-11-1	0.8
AB 380	128		248 813	5/20/2003	SW	NE	11	20	24	20-251-22	10QR-A-12-1	0.8
AB 380	129		248 813	5/20/2003	SW	NE	11	20	24	20-251-23	10QR-A-13-1	0.8
AB 380	130		248 813	5/20/2003	SW	NE	11	20	24	20-251-24	10QR-A-14-1	0.8
AB 380	131		248 813	5/20/2003	SW	NE	11	20	24	20-251-25	10QR-A-15-1	0.8
AB 380	132		248 813	5/20/2003	SW	NE	11	20	24	20-251-26	10QR-A-16-1	0.8
AB 380	133		248 813	5/20/2003	SW	NE	11	20	24	20-251-27	10QR-A-17-1	0.8
AB 380	134		248 813	5/20/2003	SW	NE	11	20	24	20-251-28	10QR-A-18-1	0.8
AB 380	135		248 813	5/20/2003	SW	NE	11	20	24	20-251-29	10QR-A-19-1	0.8
AB 380	136		248 813	5/20/2003	SW	NE	11	20	24	20-251-30	10QR-A-20-1	0.8
AB 380	137		248 813	5/20/2003	SW	NE	11	20	24	20-251-31	10QR-A-21-1	0.8
AB 380	138		248 813	5/20/2003	SW	NE	11	20	24	20-251-32	10QR-A-22-1	0.8
AB 380	139		248 813	5/20/2003	SW	NE	11	20	24	20-251-33	10QR-A-23-1	0.8
AB 380	140		248 813	5/20/2003	SW	NE	11	20	24	20-251-34	10QR-A-24-1	0.8
AB 380	141		248 813	5/20/2003	SW	NE	11	20	24	20-251-35	10QR-A-25-1	0.8
AB 380	142		248 813	5/20/2003	SW	NE	11	20	24	20-251-36	10QR-A-26-1	0.8
AB 380	143		248 813	5/20/2003	SW	NE	11	20	24	20-251-37	10QR-A-27-1	0.8
AB 380	144		248 813	5/20/2003	SW	NE	11	20	24	20-251-38	10QR-A-28-1	0.8
AB 380	145		248 813	5/20/2003	SW	NE	11	20	24	20-251-39	10QR-A-29-1	0.8
AB 380	146		248 813	5/20/2003	SW	NE	11	20	24	20-251-40	10QR-A-30-1	0.8
AB 380	147		248 813	5/20/2003	SW	NE	11	20	24	20-251-41	10QR-A-31-1	0.8
AB 380	148		248 813	5/20/2003	SW	NE	11	20	24	20-251-42	10QR-A-32-1	0.8
AB 380	149		248 813	5/20/2003	SW	NE	11	20	24	20-251-43	10QR-A-33-1	0.8
AB 380	150		248 813	5/20/2003	SW	NE	11	20	24	20-251-44	10QR-A-34-1	0.8
AB 380	151		248 813	5/20/2003	SW	NE	11	20	24	20-251-45	10QR-A-35-1	0.8
AB 380	152		248 813	5/20/2003	SW	NE	11	20	24	20-251-46	10QR-A-36-1	0.8
AB 380	153		248 813	5/20/2003	SW	NE	11	20	24	20-251-47	10QR-A-37-1	0.8
AB 380	154		248 813	5/20/2003	SW	NE	11	20	24	20-251-48	10QR-A-38-1	0.8
AB 380	155		248 813	5/20/2003	SW	NE	11	20	24	20-251-49	10QR-A-39-1	0.8
AB 380	156		248 813	5/20/2003	SW	NE	11	20	24	20-251-50	10QR-A-40-1	0.8
AB 380	157		248 813	5/20/2003	SW	NE	11	20	24	20-251-51	10QR-A-41-1	0.8
AB 380	158		248 813	5/20/2003	SW	NE	11	20	24	20-251-52	10QR-A-42-1	0.8
AB 380	159		248 813	5/20/2003	SW	NE	11	20	24	20-251-53	10QR-A-43-1	0.8
AB 380	160		248 813	5/20/2003	SW	NE	11	20	24	20-251-54	10QR-A-44-1	0.8
AB 380	161		248 813	5/20/2003	SW	NE	11	20	24	20-251-55	10QR-A-45-1	0.8
AB 380	162		248 813	5/20/2003	SW	NE	11	20	24	20-251-56	10QR-A-46-1	0.8
AB 380	163		248 813	5/20/2003	SW	NE	11	20	24	20-251-57	10QR-A-47-1	0.8
AB 380	164		248 813	5/20/2003	SW	NE	11	20	24	20-251-58	10QR-A-48-1	0.8
AB 380	165		248 813	5/20/2003	SW	NE	11	20	24	20-251-59	10QR-A-49-1	0.8
AB 380	166		248 813	5/20/2003	SW	NE	11	20	24	20-251-60	10QR-A-50-1	0.8
AB 380	167		248 813	5/20/2003	SW	NE	11	20	24	20-251-61	10QR-A-51-1	0.8
AB 380	168		248 813	5/20/2003	SW	NE	11	20	24	20-251-62	10QR-A-52-1	0.8
AB 380	169		248 813	5/20/2003	SW	NE	11	20	24	20-251-63	10QR-A-53-1	0.8
AB 380	170		248 813	5/20/2003	SW	NE	11	20	24	20-251-64	10QR-A-54-1	0.8
AB 380	171		248 813	5/20/2003	SW	NE	11	20	24	20-251-65	10QR-A-55-1	0.8
AB 380	172		248 813	5/20/2003	SW	NE	11	20	24	20-251-66	10QR-A-56-1	0.8
AB 380	173		248 813	5/20/2003	SW	NE	11	20	24	20-251-67	10QR-A-57-1	0.8
AB 380	174		248 813	5/20/2003	SW	NE	11	20	24	20-251-68	10QR-A-58-1	0.8
AB 380	175		248 813	5/20/2003	SW	NE	11	20	24	20-251-69	10QR-A-59-1	0.8
AB 380	176		248 813	5/20/2003	SW	NE	11	20	24	20-251-70	10QR-A-60-1	0.8
AB 380	177		248 813	5/20/2003	SW	NE	11	20	24	20-251-71	10QR-A-61-1	0.8
AB 380	178		248 813	5/20/2003	SW	NE	11	20	24	20-251-72	10QR-A-62-1	0.8
AB 380	179		248 813	5/20/2003	SW	NE	11	20	24	20-251-73	10QR-A-63-1	0.8
Change App.	1	57555	14217	1-Nov-91	NW	NE	11	20	24	8-10-07	10QR-B-1	0.5
Change App.	130	48811								20-221-07	10QR-B-5-1	0.2
Change App.	151	68813	60146	2-May-93	NW	NE	11	20	24	20-221-11	10QR-A-7-1	0.2
Change App.	152	57555	14218	1-Nov-91	NW	NE	11	20	24	20-221-13	10QR-A-6-1	0.2
Change App.	153	47807			NW	NE	11	20	24	20-221-09	10QR-A-5-1	0.8
Change App.	154	57555	14218	1-Nov-91	NW	NE	11	20	24	20-221-06	10QR-A-2-1	0.8
Change App.	155	47807	11,9,55	31-May-06	NW	NE	11	20	24	20-221-03	10QR-1	0.19
Change App.	156	56274	13,8,8	23-Nov-94	NW	NE	11	20	24	20-221-01	10QR-1	0.1498
Change App.	157	56224	12,4,1,8	25-May-89	NW	NE	11	20	24	20-221-16	10QR-A-6	0.1177
Change App.	158	47807	11,8,4,12		NW	NE	11	20	24	20-221-03	10QR-A-7	0.2115
Change App.	159	48811	13,7,5,5	22-May-94	NW	NE	11	20	24	20-221-21	10QR-A-12	0.8
Change App.	160	68811	7,9,5,0,5	6-Jan-94	NW	NE	11	20	24	20-221-10	10QR-A-17	0.8
Change App.	161	57555	14,1,7,1	1-Nov-91	NW	NE	11	20	24	20-221-05	10QR-A-5-5	0.8
Change App.	162	57555	14,1,6,1	1-Nov-91	SW	NE	11	20	24	20-221-16	10QR-A-17	0.8
										20-221-17 27	10QR-B-4-5 10QR	
Change App.	164	48,8,6,6			SW	NE	11	20	24	22-16	8-13	0.8-17
Change App.	165	30,0,11	3,0,0,8,0	15-Jul-0 1	SW	NE	11	20	24	20-241-03	10QR-A-6-4	0.8
Change App.	166	7,0,0,1	8,2,7,5,8	27-Jan-0 4	SW	NE	11	20	24	20-234-24	10QR-A-2-4	0.2
Change App.	167	6,0,7,7	8,0,9,7,2	18-May-96	SW	NE	11	20	24	20-241-07	10QR-A-3-7	0.2
Change App.	168	8,8,0,1	17,0,1,1	18-May-96	SW	NE	11	20	24	20-241-08	10QR-A-3-6	0.2
Change App.	169	4,9,0,7	15,2,7		SW	NE	11	20	24	20-241-13	10QR-A-6-5	0.1117
Change App.	170	4,9,0,7	2,0,4,0,5		SW	NE	11	20	24	20-241-16	10QR-A-2-0	0.211
Change App.	171	6,8,8,1	17,0,8,1	13-Apr-94	SW	NE	11	20	24	20-231-17	10QR-B-8	0.22
Change App.	172	4,9,0,7	8,4,6,5	1-Aug-07	SW	NE	11	20	24	20-231-06	10QR-B-3	0.211
Change App.	173	8,8,0,1	3,0,7,6,0	1-May-93	SW	NE	11	20	24	20-231-18	10QR-B-4-1	0.8
Change App.	174	4,9,0,7	1,8,1,9,7		SW	NE	11	20	24	20-231-14	10QR-A-2-1	0.2
Change App.	175	6,8,8,1	10,0,7,7	1-May-93	SW	NE	11	20	24	20-231-12	10QR-A-1-4	0.8
Change App.	176	6,0,7,7	3,2,1,0,0	1-Nov-95	SW	NE	11	20	24	20-231-10	10QR-A-4-4	0.9
Change App.	177	6,0,7,7	8,4,9,0	12-Aug-95	SW	NE	11	20	24	20-231-16	10QR-B-6-1	0.2
Change App.	178	7,0,0,1	6,0,7,7	13-May-07	SW	NE	11	20	24	20-231-03	10QR-A-9	0.8
Change App.	179	7,0,7,5,2	2,0,8,9,9	7-Aug-97	SW	NE	11	20	24	20-241-02	10QR-A-5-0	0.5
Change App.	180	7,0,7,5,2	2,0,9,0,0	20-Dec-98	SW	NE	11	20	24	20-241-01	10QR-A-6	0.23
Change App.	181	7,0,7,5,2	2,0,7,5,4	8-May-00	NW	NE	11	20	24	20-221-15	10QR-A-8-1	0.8
Change App.	182	7,0,7,5,2	2,8,4,0,1	23-Sep-97	NW & SW	NE	11	20	24	20-221-19	10QR-A-9-1	0.8
Change App.	183	7,0,7,5,2	3,0,0,2,6	15-Jan-04	SW	NE	11	20	24	20-221-21	10QR-A-9	0.8
Change App.	184	7,0,7,5,2	3,0,0,1,5	9-Jul-98	SW	NE	11	20	24	20-221-18	10QR-B-1	0.8
Change App.	185	7,0,7,5,2	2,0,2,1,4	16-Nov-98	SW	NE	11	20	24	20-241-01	10QR-B-5-1	0.22
Change App.	186	7,0,7,5,2	2,4,1,0,8	21-Jun-00	SW	NE	11	20	24	20-231-16	10QR-B-4-6	0.22
Change App.	187	7,0,7,5,2	2,0,1,0,7	25-Sep-97	SW	NE	11	20	24	20-241-03	10QR-B-5-5	0.8
Change App.	188	7,0,7,5,2	2,8,4,0,0	6-Apr-00	SW	NE	11	20	24	20-241-10	10QR-B-4-1	0.8
Change App.	189	4,9,0,7			SW	NE	11	20	24	20-231-21	10QR-B-1-4	0.146



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Carson City, NV 89703
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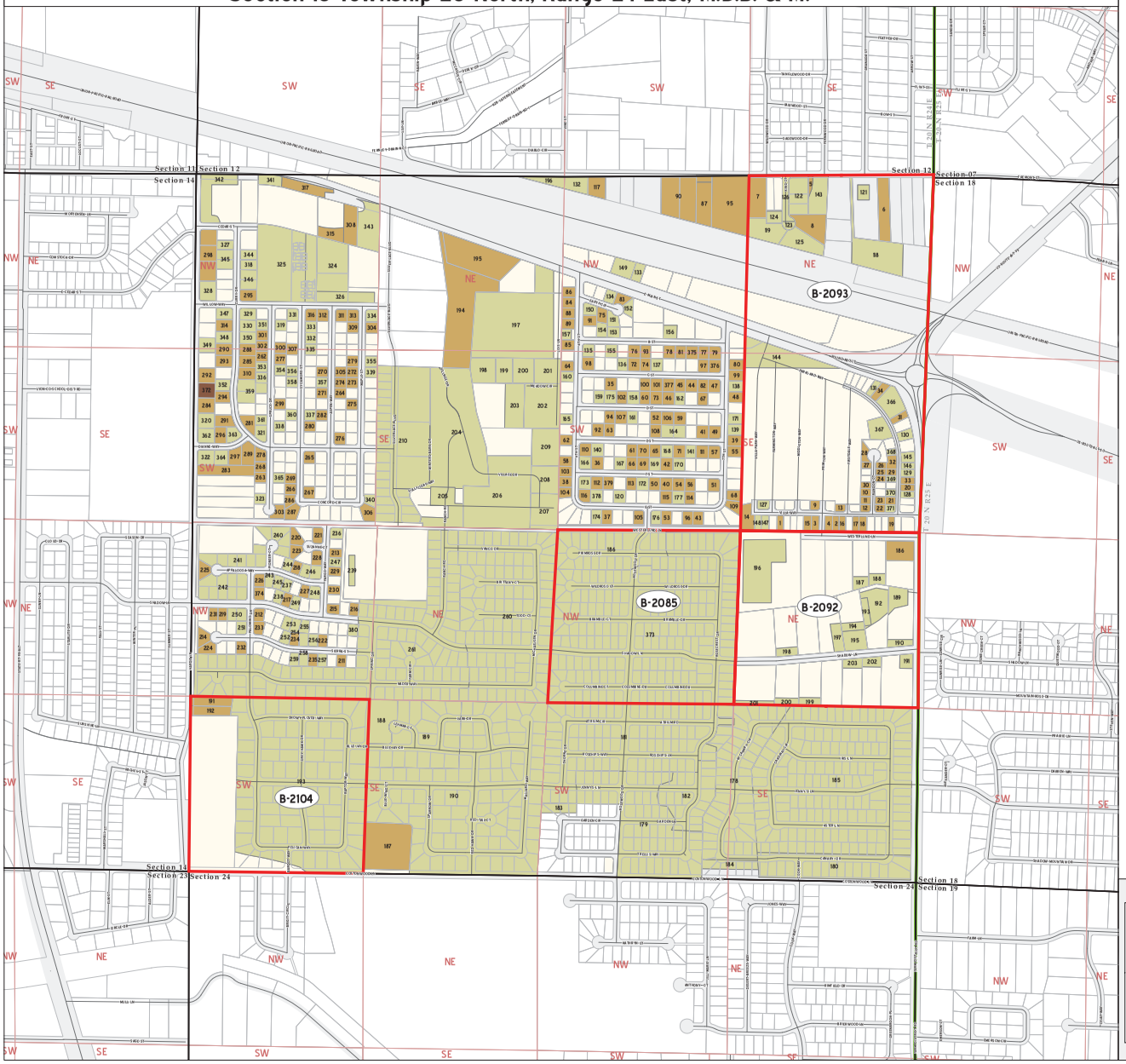
Farm Contracts - B-2085, B-2092, B-2093, B-2104
Section 13 Township 20 North, Range 24 East, M.D.B. & M.



N

Farm Contract No. B-2085	
Water Rights (+)	40.00
AB 380 (-)	0
Change Apps (-)	-42.1400
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	-2.1400

	ID No.	Cha App #	Deed No.	Date	Qty	Qrt	Section	Township	Range	APN	TKID	Acre
AB 380	none											
Change Ap.	373	67649			NW	SE	13	20	24	2018-26 2018-27	10.23	36.47
Change Ap.	186	76292	19296 5	5/3/1996	NW	SE	13	20	24	21-91-01	10.23	5.67

Farm Contract No. B-2092	
Water Rights (+)	40.00
AB 380 (-)	0
Change Apps (-)	-7.9023
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	31.0877

	ID No.	Cha App #	Deed No.	Date	Qty	Qrt	Section	Township	Range	APN	TKID	Acre
AB 380	186		40272	3/20/2007	NE	SE	13	20	24	21-11-22	10.22-2	1
Change Ap.	187	56226	136384	10/21/1990	NE	SE	13	20	24	21-18-24	10.22-2-C	0.2489
Change Ap.	188	56226	139693	2/20/1991	NE	SE	13	20	24	21-18-25	10.22-2-C-1	0.2489
Change Ap.	189	73644	146380	11/1/1991	NE	SE	13	20	24	21-18-07	10.21-F	0.2489
Change Ap.	190	57555	146380	11/1/1991	NE	SE	13	20	24	21-18-07	10.21-F	0.2489
Change Ap.	191	68193	160952	5/3/1993	NE	SE	13	20	24	21-18-20	10.21-1-B	0.2489
Change Ap.	192	76837	40338-9	3/20/2007	NE	SE	13	20	24	21-18-08	10.21-1-C-2	0.87
Change Ap.	193	76292	198706	12/23/1996	NE	SE	13	20	24	21-18-08	10.21	0.25
Change Ap.	194	76292	248787	6/7/2000	NE	SE	13	20	24	21-18-09	10.21-1-J	0.25
Change Ap.	195	76292	170135	4/29/1994	NE	SE	13	20	24	21-18-09	10.21-1-J	0.6
Change Ap.	196	76292	171592	5/14/1994	NE	SE	13	20	24	21-11-02	10.22	2.8
Change Ap.	197	76292	170135	4/29/1994	NE	SE	13	20	24	21-81-10	10.21-1H	0.4
Change Ap.	198	76292	244578	2/16/2000	NE	SE	13	20	24	21-18-12	10.21-1-E	0.25
Change Ap.	199	76292	28817	8/30/2002	NE	SE	13	20	24	21-18-16	10.21-1-1	0.25
Change Ap.	200	76292	293953	4/4/2003	NE	SE	13	20	24	21-18-15	10.21-1-1	0.25
Change Ap.	201	76292	243072	1/20/2000	NE	SE	13	20	24	21-18-14	10.21-1-6	0.25
Change Ap.	202	76292	170645	4/18/1994	NE	SE	13	20	24	21-18-11	10.21-1-C-1	0.24.89
Change Ap.	203	76292	170644	4/18/1994	NE	SE	13	20	24	21-18-18	10.21-1-C	0.24.89

Farm Contract No. B-2093	
Water Rights (+)	64.00
AB 380 (-)	-6.72
Change Apps (-)	-13.2449
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	46.0351

	Qrt	Qrt	Section	Township	Range	APN	TKID	Acre
AB 380	1	3407278	2/17/2005	SE	NE	13	20	24	20-87-05	10.19-D-D	0.14
AB 380	2	28593 9	8/15/2002	SE	NE	13	20	24	20-48-12	10.19-H-H	0.27
AB 380	3	2 64490	10/28/2002	SE	NE	13	20	24	20-48-10	10.19-Y-Y	0.16
AB 380	4	265048	12/1/2001	SE	NE	13	20	24	20-48-01	10.19-Y-X	0.16
AB 380	5	297191	6/4/2003	SE	NE	13	20	24	21-10-24	10.20-4-A	0.1
AB 380	6	387106	7/24/2006	SE	NE	13	20	24	21-10-16	10.20-7	0.3
AB 380	7	287562	12/19/2002	SE	NE	13	20	24	21-10-21	10.20-4-C	1
AB 380	8	267344	10/18/2001	SE	NE	13	20	24	21-10-27	10.20-4-A-2	0.91
AB 380	9	4 0277-2	3/20/2007	SE	NE	13	20	24	20-48-11	10.19-K-K-K	0.13
AB 380	10	4 0277-2	3/20/2007	SE	NE	13	20	24	20-48-22-23	10.19-H-I	0.8
AB 380	11	26130	5/21/2001	SE	NE	13	20	24	20-48-2-24	10.19-J-J	0.8
AB 380	12	26130	5/21/2001	SE	NE	13	20	24	20-48-2-25	10.19-K-K-K	0.8
AB 380	13	26130	5/21/2001	SE	NE	13	20	24	20-48-01	10.19-I-I-I	0.8
AB 380	14	26130	5/21/2001	SE	NE	13	20	24	20-47-01	10.19-H-H-H	0.44
AB 380	15	26130	5/21/2001	SE	NE	13	20	24	20-47-09	10.19-Z-Z	0.16
AB 380	16	26130	5/21/2001	SE	NE	13	20	24	20-48-03	10.19-V-V	0.14
AB 380	17	26130	5/21/2001	SE	NE	13	20	24	20-48-05	10.19-T-T	0.14
AB 380	18	26130	5/21/2001	SE	NE	13	20	24	20-48-06	10.19-S-S	0.16
AB 380	19	26130	5/21/2001	SE	NE	13	20	24	20-48-10	10.19-O-O	0.14
AB 380	20	26130	5/21/2001	SE	NE	13	20	24	20-48-04	10.19-D	0.13
AB 380	21	26130	5/21/2001	SE	NE	13	20	24	20-49-07	10.19-S	0.8
AB 380	22	26130	5/21/2001	SE	NE	13	20	24	20-49-09	10.19-U	0.8
AB 380	23	26130	5/21/2001	SE	NE	13	20	24	20-48-10	10.19-V	0.8
AB 380	24	26130	5/21/2001	SE	NE	13	20	24	20-48-11	10.19-Y	0.1
AB 380	25	26130	5/21/2001	SE	NE	13	20	24	20-48-14	10.19-Z	0.1
AB 380	26	26130	5/21/2001	SE	NE	13	20	24	20-48-15	10.19-A-A	0.1
AB 380	27	26130	5/21/2001	SE	NE	13	20	24	20-48-18	10.19-E-E	0.1
AB 380	28	4 0277-2	3/20/2007	SE	NE	13	20	24	20-48-8	10.19-D-D	0.17
AB 380	29	4 0277-2	3/20/2007	SE	NE	13	20	24	20-48-04	10.19-P	0.1
AB 380	30	381069	5/7/2004	SE	NE	13	20	24	20-48-22	10.19-H-H	0.1
AB 380	31	278578	6/20/2002	SE	NE	13	20	24	20-49-12	10.19-L	0.17
AB 380	32	347973	4/13/2005	SE	NE	13	20	24	20-48-03	10.19-O	0.18
AB 380	33	325698	12/6/2003	SE	NE	13	20	24	20-49-03	10.19-E	0.14
AB 380	34	310687	12/22/2003	SE	NE	13	20	24	20-48-02	10.19-Q-Q-Q	0.21
Change Ap.	143	67283		NE & SE	NE	13	20	24	21-10-24	10.20-4-A	0.9
Change Ap.	144	67499	204885	11-Apr-97	NE	NE	13	20	24	21-10-01	10.19-1	2.02
Change Ap.	145	68193	160959	5-May-93	SE	NE	13	20	24	20-48-08	10.19-H	0.2
Change Ap.	146	63277	181835	5-May-95	SE	NE	13	20	24	20-48-07	10.19-G	0.12
Change Ap.	147	61973	160960	5-May-93	SE	NE	13	20	24	20-47-03	10.19-F-F-F	0.6
Change Ap.	148	57555	164371	1-Nov-91	SE	NE	13	20	24	20-47-02	10.19-G-G-G	0.18
Change Ap.	118	76837	40504-7	24-Apr-07	NE	NE	13	20	24	21-10-18	10.20-5	2.22
Change Ap.	119	76837	4 0461-3	18-May-07	NE	NE	13	20	24	21-10-25	10.20-4-A-4	0.96
Change Ap.	121	76292	226236	16-Nov-98	NE	NE	13	20	24	21-10-15	10.20-6	0.24
Change Ap.	122	76292	222269	12-Aug-98	NE	NE	13	20	24	21-10-28	10.20-4-A-1	0.93
Change Ap.	123	76292	248089	19-Mar-00	NE	NE	13	20	24	Roadway	10.20-4	0.12
Change Ap.	124	76292	196437	16-Aug-96	NE	NE	13	20	24	21-10-31	10.20-4-B-2	0.2489
Change Ap.	125	76292	245387	9-Mar-00	NE	NE	13	20	24	21-10-26	10.20-4-A-3	0.93
Change Ap.	126	76292	170512	13-Apr-94	NE	NE	13	20	24	21-10-2-3	10.20-4	0.746
Change Ap.	127	76292	261017	15-May-01	SE	NE	13	20	24	20-48-01	10.19-Q-Q-Q	0.16
Change Ap.	128	76292	214039	9-Jan-98	SE	NE	13	20	24	20-48-03	10.19-C	0.13
Change Ap.	129	76292	219037	23-Dec-98	SE	NE	13	20	24	20-48-06	10.19-F	0.15
Change Ap.	130	76292	196382	1-Nov-96	SE	NE	13	20	24	20-48-10	10.19-J	0.21
Change Ap.	131	76292	219035	11-Mar-98	SE	NE	13	20	24	20-48-03	10.19-R-R-R	0.15
Change Ap.	142	75862	38207	20-Jan-04	NE	NE	13	20	24	21-27-05		0.81
Change Ap.	366	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-48-01	10.19P-P-P	0.72
Change Ap.	367	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-49-29	10.19-A-1	0.58
Change Ap.	368	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-49-2-0-2	10.19-N	0.09
Change Ap.	369	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-49-2-27	10.19-W-W-W	0.09
Change Ap.	370	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-49-2-0-6	10.19-R	0.8
Change Ap.	371	75862	4044460	16-Apr-07	SE	NE	13	20	24	20-49-2-08	10.19-T	0.8

Farm Contract No. B-2104	
Water Rights (+)	37.00
AB 380 (-)	-1.02
Change Apps (-)	-28.7600
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	7.22.00

	ID No.	Cha App #	Deed No.	Date	Qty	Qrt	Section	Township	Range	APN	TKID	Acre
AB 380	191		397228	12/18/2006	SW	SW	13	20	24	21-21-03	10.17-2-A	0.51
AB 380	192		397228	12/18/2006	SW	SW	13	20	24	21-21-04	10.17-2	0.51
Change Ap.	193	76292	342342	2/17/2005	SW	SW	13	20	24	21-21-14	10.17-6	28.76

Legend
- Designated Farm Contracts selection
- Sections
- Quarters
- Parcels

WaterRights selection
- +Nulll+
- AB 380
- Change App
- City of Fernley
- Future
- ROW

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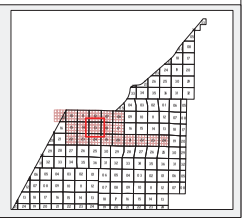
1 inch equals 400 feet

0 355 710 1,420 Feet

July 1, 2008



Section 13 Township 20 North, Range 24 East, M.D.B. & M.

N

Farm Contract No. B-2005	
Water Righted (+)	73.00
AB380 (-)	-14.806
Change Apps (-)	-21.7105
Change App (+)	
City of Fernley (-)	-0.34
Remaining Balance	36.1435

	ID No.	Chg Ap #	Deed No.	Date	Qtr	Qrt	Section	Township	Range	APN	TCID	Acre
AB 380	262		390165	5-Sep-06	SW	NW	13	20	24	20-092-05	1028-2-K	0.17
AB 380	263		392369	29-Sep-06	SW	NW	13	20	24	20-093-10	1028-2-U	0.17
AB 380	264		317352	1-Apr-04	SW	NW	13	20	24	20-122-17	1028-3-A-22	0.16
AB 380	265		317352	1-Apr-04	SW	NW	13	20	24	20-126-08	1028-3-23	0.19
AB 380	266		317352	1-Apr-04	SW	NW	13	20	24	20-124-04	1028-3-11	0.17
AB 380	267		317352	1-Apr-04	SW	NW	13	20	24	20-126-05	1028-3-18	0.19
AB 380	268		390166	5-Sep-06	SW	NW	13	20	24	20-093-11	1028-2-T	0.17
AB 380	269		387120	25-Jul-06	SW	NW	13	20	24	20-124-03	1028-3-37	0.16
AB 380	270		306568	20-Oct-03	SW	NW	13	20	24	20-125-06	1028-3-A-6	0.16
AB 380	271		387118	25-Jul-06	SW	NW	13	20	24	20-125-08	1028-3-A-20	0.16
AB 380	272		394840	8-Nov-06	SW	NW	13	20	24	20-122-06	1028-3-A-24	0.16
AB 380	273		321890	28-May-04	SW	NW	13	20	24	20-122-07	1028-3-A-25	0.16
AB 380	274		335051	5-Nov-04	SW	NW	13	20	24	20-122-18	1028-3-A-26	0.16
AB 380	275		337259	3-Dec-04	SW	NW	13	20	24	20-122-09	1028-3-A-32	0.17
AB 380	276		326504	22-Jul-04	SW	NW	13	20	24	20-122-13	1028-3-A-61	0.19
AB 380	277		400356	9-Feb-07	SW	NW	13	20	24	20-091-08	1028-2-H	0.18
AB 380	278		326505	22-Jul-04	SW	NW	13	20	24	20-093-12	1028-2-I-I	0.22
AB 380	279		342728	11-Feb-05	SW	NW	13	20	24	20-122-05	1028-3-A-2	0.17
AB 380	280		402711	20-Mar-07	SW	NW	13	20	24	20-125-14	1028-3-34	0.17
AB 380	281		402709	20-Mar-07	SW	NW	13	20	24	20-081-01	1028-1-F	0.25
AB 380	282		402709	20-Mar-07	SW	NW	13	20	24	20-125-10	1028-3-A-64	0.17
AB 380	283		337260	3-Dec-04	SW	NW	13	20	24	20-093-13	1028-1-H-H	0.8
AB 380	284		322885	10-Jun-04	SW	NW	13	20	24	20-082-15	1028-1-I-I	0.34
AB 380	285		260931	14-May-01	SW	NW	13	20	24	20-081-06	1028-1-P	0.26
AB 380	286		297600	30-May-03	SW	NW	13	20	24	20-124-05	1028-3-12	0.18
AB 380	287		297599	30-May-03	SW	NW	13	20	24	20-124-06	1028-3-16	0.26
AB 380	288		258442	13-Mar-01	NW & SW	NW	13	20	24	20-081-07	1028-1-F-1-F	0.26
AB 380	289		278471	17-Jun-02	SW	NW	13	20	24	20-083-04	1028-1-D-D	0.42
AB 380	290		278226	12-Jun-02	NW & SW	NW	13	20	24	20-082-04	1028-1-S	0.26
AB 380	291		270045	21-Dec-01	SW	NW	13	20	24	20-082-10	1028-1-R	0.31
AB 380	292		270907	11-Jan-02	SW	NW	13	20	24	20-082-17	1028-1-N-A	0.34
AB 380	293		269249	3-Dec-01	SW	NW	13	20	24	20-082-05	1028-1-N-J	0.29
AB 380	294		267350	18-Oct-01	SW	NW	13	20	24	20-082-08	1028-1-N-G	0.27
AB 380	295		261310	21-May-01	NW	NW	13	20	24	20-071-01	1028-1-K-K	0.22
AB 380	296		261310	21-May-01	SW	NW	13	20	24	20-082-12	1028-1-T	0.261
AB 380	297		261310	21-May-01	SW	NW	13	20	24	20-083-03	1028-1-N-B	0.33
AB 380	298		261310	21-May-01	NW	NW	13	20	24	20-072-06 20-072-07 20-072 08	1028-1-D 1028-1-C-C 1028-1-E-E	1.23
AB 380	299		261310	21-May-01	SW	NW	13	20	24	20-091-04	1028-2-F-F	0.18
AB 380	300		261310	21-May-01	NW & SW	NW	13	20	24	20-091-09	1028-2-B	0.18
AB 380	301		261310	21-May-01	NW	NW	13	20	24	20-092-03	1028-2-G	0.17
AB 380	302		261310	21-May-01	NW & SW	NW	13	20	24	20-092-04	1028-2-D	0.165
AB 380	303		261310	21-May-01	SW	NW	13	20	24	20-093-06	1028-2-X	0.22
AB 380	304		261310	21-May-01	NW	NW	13	20	24	20-121-11	1028-3-A-14	0.19
AB 380	305		261310	21-May-01	NW	NW	13	20	24	20-122-19	1028-3-A-27	0.16
AB 380	306		261310	21-May-01	SW	NW	13	20	24	20-124-13	1028-3-A-41	0.32
AB 380	307		261310	21-May-01	NW & SW	NW	13	20	24	20-127-04	1028-3-35	0.35
AB 380	308		261310	21-May-01	NW	NW	13	20	24	20-102-05	1028-1-X	0.71
AB 380	309		261307	21-May-01	NW	NW	13	20	24	20-122-02	1028-3-A-8	0.17
AB 380	310		267349	18-Oct-01	SW	NW	13	20	24	20-081-05	1028-1-F-F	0.27
AB 380	311		283048	23-Sep-02	NW	NW	13	20	24	20-122-24	1028-3-A-12	0.19
AB 380	312		296627	15-May-03	NW	NW	13	20	24	20-125-01	1028-3-A-31	0.19
AB 380	313		298761	19-Jun-03	NW	NW	13	20	24	20-122-01	1028-3-A-13	0.19
AB 380	314		306932	24-Oct-03	NW	NW	13	20	24	20-082-02	1028-1-N-D	0.26
AB 380	315		278466	17-Jun-02	NW	NW	13	20	24	20-102-04	1028-7	0.37
AB 380	316		326503	22-Jul-04	NW	NW	13	20	24	20-125-24	1028-3-27	0.19
AB 380	317		297891	3-Jun-03	NW	NW	13	20	24	20-102-03	1028-8	0.6
Change Apl.	341	69283			NW	NW	13	20	24	20-102-03	1028-8	0.3265
Change Apl.	342	69283			NW	NW	13	20	24	20-102-01	1028-4	1.156
Change Apl.	343	49285			NW	NW	13	20	24	20-102-06	1028-1-I	1.31
Change Apl.	344	67449	238729	9-Sep-99	NW	NW	13	20	24	20-071-06	1028-1-Z	0.22
Change Apl.	345	56226	139774	22-Feb-91	NW	NW	13	20	24	20-072-03	1028-1-O	0.44
Change Apl.	346	47849			NW	NW	13	20	24	20-071-07 20-071-08	1028-1-V	0.441
Change Apl.	347	47849			NW	NW	13	20	24	20-082-01	1028-1-B-B	0.262
Change Apl.	348	47849			NW	NW	13	20	24	20-082-03	1028-1-N-E	0.264
Change Apl.	349	70031			NW & SW	NW	13	20	24	20-082-19	1028-1-N-F	0.335
Change Apl.	350	47849			NW	NW	13	20	24	20-081-08	1028-1-G-G	0.265
Change Apl.	351	57555	146369	1-Nov-91	NW	NW	13	20	24	20-092-02	1028-2-C	0.17
Change Apl.	352	61893	170510	28-Dec-93	NW	NW	13	20	24	20-082-07	1028-1-N-H	0.27
Change Apl.	353	47849			SW	NW	13	20	24	20-092-06	1028-2-L	0.165
Change Apl.	354	47849			SW	NW	13	20	24	20-091-07	1026-A-47	0.176
Change Apl.	355	63277	184988	15-Aug-95	SW	NW	13	20	24	20-121-08	1028-3-A-4	0.19
Change Apl.	356	61893	160962	3-May-93	SW	NW	13	20	24	20-127-06	1028-3-2	0.16
Change Apl.	357	61893	171031	29-Apr-94	SW	NW	13	20	24	20-125-07	1028-3-A-33	0.16
Change Apl.	358	47849			SW	NW	13	20	24	20-127-07	1028-3-29	0.163
Change Apl.	359	47849			SW	NW	13	20	24	20-081-03 20-081-04 20-081-08	1028-1-C 1028-1-L 1028-1-Q	0.744
Change Apl.	360	63277	184987	15-May-95	SW	NW	13	20	24	20-127-10	1028-3-15	0.17
Change Apl.	361	47849			SW	NW	13	20	24	20-092-11	1028-2-D-D	0.165
Change Apl.	362	61893	160965	3-May-93	SW	NW	13	20	24	20-082-13	1028-1-B	0.33
Change Apl.	363	51738			SW	NW	13	20	24	20-082-11	1028-1-E	0.27
Change Apl.	364	47831			SW	NW	13	20	24	20-083-02	1028-1-N-L	0.278
Change Apl.	365	47831			SW	NW	13	20	24	20-093-03	1028-2-V	0.165
Change Apl.	318	76837	171034	29-Apr-94	SW	NW	13	20	24	20-071-05	1028-1-Z-1	0.22
Change Apl.	319	76837	222272	12-Aug-98	NW	NW	13	20	24	20-091-11	1028-2-J	0.18
Change Apl.	320	76837	210578	29-Sep-97	NW	NW	13	20	24	20-082-14	1028-1-N	0.37
Change Apl.	321	76837	210579	29-Sep-97	SW	NW	13	20	24	20-092-12	1028-2-E-E	0.23
Change Apl.	322	76837	219038	20-May-98	SW	NW	13	20	24	20-083-01	1028-1-A	0.33
Change Apl.	323	76837	212268	17-Nov-97	SW	NW	13	20	24	20-093-08	1028-2-W	0.17
Change Apl.	324	76292	310979	26-Dec-03	NW	NW	13	20	24	20-102-09	1028-5	2.135
Change Apl.	325	76292	320817	17-May-04	NW	NW	13	20	24	20-102-10 20-102-11	1028-5	4.73
Change Apl.	326	76292	256081	4-Jan-01	NW	NW	13	20	24	20-102-07	1028-5-A	1.81
Change Apl.	327	76292	202887	3-Mar-97	NW	NW	13	20	24	20-072-14	1028-1-A-A	0.21
Change Apl.	328	76292	215510	24-Feb-98	NW	NW	13	20	24	20-072-05	1028-1-M	0.44
Change Apl.	329	76292	230937	11-Mar-99	NW	NW	13	20	24	20-081-10	1028-1-G-3-G	0.26
Change Apl.	330	76292	223858	22-Sep-98	NW	NW	13	20	24	20-081-09	1028-1-G-2-G	0.26
Change Apl.	331	76292	215513	23-Feb-99	NW	NW	13	20	24	20-127-01	1028-3-8	0.19
Change Apl.	332	76292	228576	13-Jan-99	NW	NW	13	20	24	20-125-22	1028-3-30	0.17
Change Apl.	333	76292	228576	13-Jan-99	NW	NW	13	20	24	20-125-23	1028-3-32	0.17
Change Apl.	334	76292	244576	16-Feb-00	NW	NW	13	20	24	20-121-12	1028-3-A-9	0.21
Change Apl.	335	76292	271190	18-Jan-02	NW & SW	NW	13	20	24	20-125-21	1028-3-31	0.17
Change Apl.	336	76292	275074	10-Apr-02	SW	NW	13	20	24	20-092-07	1028-2-N	0.17
Change Apl.	337	76292	196870	30-Aug-96	SW	NW	13	20	24	20-125-15	1028-3-22	0.17
Change Apl.	338	76292	261084	16-May-01	SW	NW	13	20	24	20-091-02	1028-2-H-H	0.18
Change Apl.	339	76292	247565	8-May-00	SW	NW	13	20	24	20-121-07	1028-3-A-36	0.18
Change Apl.	340	76292	248090	19-May-00	SW	NW	13	20	24	20-124-14	1028-3-A-42	0.16
City of Fernley	372		243571	1/20/2000	SW	NW	13	20	24	20-082-16	1028-1-U	0.34

Legend

- Designated Farm Contracts
- Sections
- Quarters
- Parcels
- ROW
- WaterRights
- <Null>
- AB 380
- Change App
- City of Fernley
- Future

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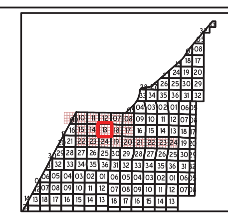
Stankaconsulting@aol.com

1 inch equals 600 feet

0 270 540 1,080 Feet

July 1, 2008



Map tp accompany application to change the place of use and manner of use of a portion of claim #3 of the Truckee River Decree for Municipal and Domestic Purposes by the City of Fernley, Nevada from the Truckee River

Figure 10
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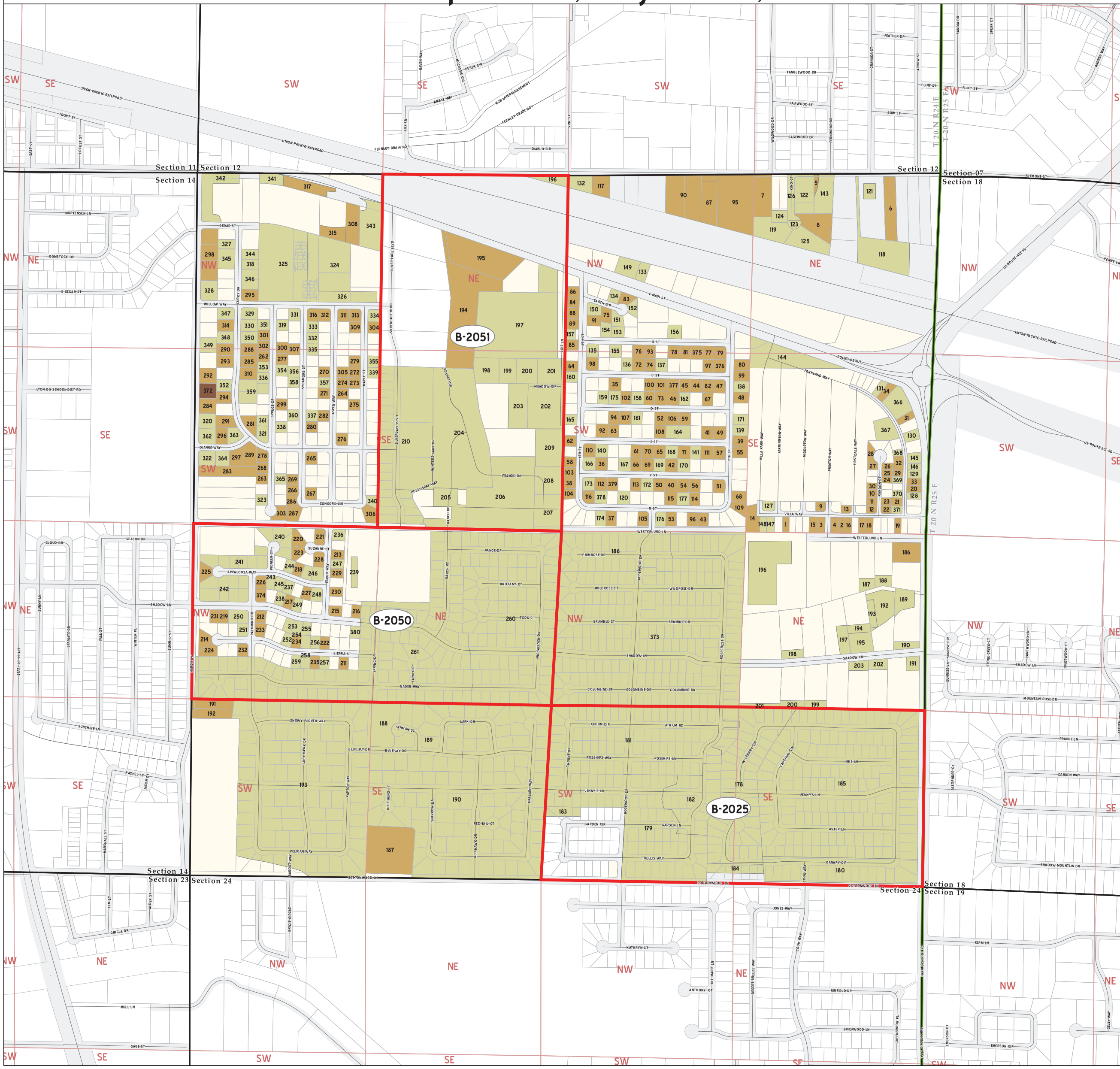
Farm Contract - B-2025, B-2050, B-2051 - Section 13 Township 20 North, Range 24 East, M.D.B. & M.



Farm Contract No. B-2025	
Water Righted (+)	80.00
AB380 (-)	0
Change Apps (-)	-76.8600
Change App (+)	0
City of Fernley (-)	
Remaining Balance	3.1400

	ID No.	Chg Ap #	Deed No.	Date	Qtr	Qrt	Section	Township	Range	APN	TCID	Acre
AB 380	none											
Change Ap.	178	67449	235275	6/14/1999	SW & SE	SE	13	20	24	21-111-32	1023	9.96
Change Ap.	179	70130	261082	5/7/2001	SW & SE	SE	13	20	24	21-111-36	1023-B	10.75
Change Ap.	180	76837	270788	1/9/2002	SE	SE	13	20	24	21-111-21	1027-1	4.98
Change Ap.	181	76292	251167	8/11/2000	SW	SE	13	20	24	21-111-32	1023	17.3
Change Ap.	182	76292	261082	5/7/2001	SW	SE	13	20	24	21-111-36	1023-B	3.62
Change Ap.	183	76292	261080	5/16/2001	SW	SE	13	20	24	21-111-37	1023-A	0.44
Change Ap.	184	76292	261081	5/16/2001	SW & SE	SE	13	20	24	21-111-35	1023-C	0.69
Change Ap.	185	76292	290818	2/13/2003	SE	SE	13	20	24	21-111-39	1027-1	9.2
Change Ap.	185	76292	302550	8/20/2003	SE	SE	13	20	24	21-111-21	1027-1	14.94
Change Ap.	185	76292	275769	4/23/2002	SE	SE	13	20	24	21-111-21	1027-1	4.98

Farm Contract No. B-2050	
Water Righted (+)	80.00
AB380 (-)	-4.78
Change Apps (-)	-53.8160
Change App (+)	0
City of Fernley (-)	
Remaining Balance	21.4040

	ID No.	Chg Ap #	Deed No.	Date	Qtr	Qrt	Section	Township	Range	APN	TCID	Acre
AB 380	211		402709	3/20/2007	NW	SE	13	20	24	20-196-10	1026-A-30	0.16
AB 380	212		289482	1/23/2003	NW	SE	13	20	24	20-195-01	1026-A-15	0.19
AB 380	213		258441	3/13/2001	NW	SE	13	20	24	20-192-09	1026-A-56-L	0.16
AB 380	214		285936	11/15/2002	NW	SE	13	20	24	20-194-10	1026-A-64	0.25
AB 380	215		284303	10/17/2002	NW	SE	13	20	24	20-192-03	1026-A-28	0.18
AB 380	216		335048	11/5/2004	NW	SE	13	20	24	20-192-01	1026-A-36	0.16
AB 380	217		321641	5/26/2004	NW	SE	13	20	24	20-193-11	1026-A-19	0.17
AB 380	218		401931	3/7/2007	NW	SE	13	20	24	20-191-09	1026-A-44	0.16
AB 380	219		381071	5/1/2006	NW	SE	13	20	24	20-194-03	1026-A-55	0.16
AB 380	220		321892	5/28/2004	NW	SE	13	20	24	20-191-03	1026-A-56-A	0.24
AB 380	221		317353	4/1/2004	NW	SE	13	20	24	20-191-01	1026-A-56-D	0.21
AB 380	222		402462	3/15/2007	NW	SE	13	20	24	20-195-15	1026-A-57-A	0.16
AB 380	223		351442	5/20/2006	NW	SE	13	20	24	20-191-04	1026-A-60	0.22
AB 380	224		306218	10/14/2003	NW	SE	13	20	24	20-194-11	1026-A-63	0.24
AB 380	225		261310	5/21/2001	NW	SE	13	20	24	20-191-24	1026-A-49-B	0.24
AB 380	226		261310	5/21/2001	NW	SE	13	20	24	20-193-01	1026-A-56-B	0.18
AB 380	227		261310	5/21/2001	NW	SE	13	20	24	20-193-06	1026-A-56-H	0.16
AB 380	228		261310	5/21/2001	NW	SE	13	20	24	20-191-06	1026-A-46	0.2
AB 380	229		261310	5/21/2001	NW	SE	13	20	24	20-192-07	1026-A-56-I	0.16
AB 380	230		261310	5/21/2001	NW	SE	13	20	24	20-192-05	1026-A-56-C	0.16
AB 380	231		261310	5/21/2001	NW	SE	13	20	24	20-194-02	1026-A-54	0.16
AB 380	232		261310	5/21/2001	NW	SE	13	20	24	20-194-14	1026-A-37	0.18
AB 380	233		261310	5/21/2001	NW	SE	13	20	24	20-195-22	1026-A-12	0.18
AB 380	234		261310	5/21/2001	NW	SE	13	20	24	20-195-18	1026-A-11	0.16
AB 380	235		261310	5/21/2001	NW	SE	13	20	24	20-196-07	1026-A-33	0.16
AB 380	374		261310	5/21/2001	NW	SE	13	20	24	20-193-14	1026-A-23	0.18
Change Ap.	240	47831			NW	SE	13	20	24	20-191-12 20-191-13 20-191-14 20-191-15	1026-A-49	1.813
Change Ap.	241	47831			NW	SE	13	20	24	20-191-17 20-191-18 20-191-19 20-191-20 20-191-21 20-191-22 20-191-23	1026-A-49	1.246
Change Ap.	242	47831			NW	SE	13	20	24	20-191-25 20-191-26 20-191-27 20-191-28 20-191-29	1026-A-49	1.6
Change Ap.	243	47849			NW	SE	13	20	24	20-193-02	1026-A-49	0.162
Change Ap.	244	61893	170509	12/20/1993	NW	SE	13	20	24	20-191-10	1026-A-56-K	0.16
Change Ap.	245	63277	181232	4/11/1995	NW	SE	13	20	24	20-193-03	1026-A-61	0.16
Change Ap.	246	47849			NW	SE	13	20	24	20-191-07 20-191-08	1028-2-1 1028-A-58	0.378
Change Ap.	247	47849			NW	SE	13	20	24	20-192-08	1026-A-43	0.161
Change Ap.	248	47849			NW	SE	13	20	24	20-193-07	1026-A-39	0.2
Change Ap.	249	50014			NW	SE	13	20	24	20-193-10	1026-A-24	0.17
Change Ap.	250	47831			NW	SE	13	20	24	20-194-04 20-194-05	1026-A-49	0.337
Change Ap.	251	47849			NW	SE	13	20	24	20-194-06	1026-A-16	0.182
Change Ap.	252	67449	238729	9/9/1999	NW	SE	13	20	24	20-195-19	1026-A-41	0.164
Change Ap.	253	47849			NW	SE	13	20	24	20-195-04 20-195-05	1026-A-9 1026-A-14	0.338
Change Ap.	254	47849			NW	SE	13	20	24	20-195-17	1026-A-32	0.161
Change Ap.	255	61893	160956	5/3/1993	NW	SE	13	20	24	20-195-06	1026-A-8	0.16
Change Ap.	256	61893	160949	5/3/1993	NW	SE	13	20	24	20-195-16	1026-A-40	0.16
Change Ap.	257	47849			NW	SE	13	20	24	20-196-08	1026-A-29	0.162
Change Ap.	258	47849			NW	SE	13	20	24	20-196-06	1026-A-38	0.162
Change Ap.	259	63277	184989	8/15/1995	NW	SE	13	20	24	20-196-05	1026-A-2	0.17
Change Ap.	260	67449			NE	SE	13	20	24	21-121-06	1026	20.47
Change Ap.	261	56226			NE	SE	13	20	24	20-195-11 & various	1026-A-35 1026-B(roads) 1026-B-1,2,3 99	25.3
Change Ap.	236	76292	235274	6/14/1999	NW	SE	13	20	24	20-192-11	1026-A-56-E	0.2
Change Ap.	237	76292	337033	12/1/2004	NW	SE	13	20	24	20-193-04	1026-A-56	0.16
Change Ap.	238	76292	239968	10/8/1999	NW	SE	13	20	24	20-193-12	1026-A-18	0.16
Change Ap.	239	76292	233184	4/30/1999	NW	SE	13	20	24	20-213-01	1026-4	0.25

Farm Contract No. B-2051	
Water Righted (+)	69.00
AB380 (-)	-6.45
Change Apps (-)	-44.3055
Change App (+)	0
City of Fernley (-)	0
Remaining Balance	18.2445

	ID No.	Chg Ap #	Deed No.	Date	Qtr	Qrt	Section	Township	Range	APN	TCID	Acre
AB 380	194		286667	12/2/2002	NE & SE	NW	13	20	24	21-103-17	1025-3-A	3.97
AB 380	195		261310	5/21/2001	NE	NW	13	20	24	21-103-10	1025-1	2.48
Change Ap.	197	74994	393127	10/12/2006	NE & SE	NW	13	20	24	21-103-11	1025-5-B	7.59
Change Ap.	198	63277	181115	4/12/1995	SE	NW	13	20	24	21-103-22	1025-5	0.92
Change Ap.	199	63277	181115	4/12/1995	SE	NW	13	20	24	21-103-23	1025-5-E	0.83
Change Ap.	200	63277	181115	4/12/1995	SE	NW	13	20	24	21-103-24	1025-5-D	0.74
Change Ap.	201	63277	181115	4/12/1995	SE	NW	13	20	24	21-103-25	1025-5-C	1.14
Change Ap.	202	56226	139309	1/30/1991	SE	NW	13	20	24	21-103-20	1025-5-A-1	2.1567
Change Ap.	203	56226	139309	1/30/1991	SE	NW	13	20	24	21-103-19	1025-5-A	1.0788
Change Ap.	204	74485	386127	7/10/2006	SE	NW	13	20	24	21-103-37	1025-6-A	8
Change Ap.	205	74484	386127	7/10/2006	SE	NW	13	20	24	21-103-37	1025-6-A	1.1
Change Ap.	206	74484	386127	7/10/2006	SE	NW	13	20	24	21-103-04	1025-7	5.45
Change Ap.	207	74484	386127	7/10/2006	SE	NW	13	20	24	21-103-40	1025-4	1.29
Change Ap.	208	74484	386127	7/10/2006	SE	NW	13	20	24	21-103-41	1025-4-A	1
Change Ap.	209	61893	170643	4/19/1994	SE	NW	13	20	24	21-103-15	1025-7-A	1.36
Change Ap.	210	50014			SE	NW	13	20	24		1025-6/6C	10.36
Change Ap.	196	76292	248515	5/31/2000	NE	NW	13	20	24	21-101-01	1025-8	0.53

Legend
- Designated Farm Contracts selection
- Sections
- Quarters
- Parcels
- WaterRights selection
  - <Null>
  - AB 380
  - Change App
  - City of Fernley
  - Future
  - ROW

Stanka Consulting, LTD.
108 North Minnesota Street
Carson City NV 89703
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Stankaconsulting@aol.com

1 inch equals 400 feet

0 355 710 1,420 Feet

July 1, 2008

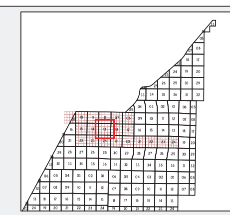

Figure 11
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4.0 Conclusions and Recommendations

4.1 Conclusions

The intent of this project was to "Reconcile all past and future mapping difficulties by attempting to develop a new GIS map of all Truckee Diversion surface water rights within the City of Fernley". Section 13 was chosen to be mapped for this effort because it has the most change applications, is a combination of residential and agricultural land, and was water righted for 591 acres. Current DWR change applications, AB-380 retired water rights, and City of Fernley future change applications were researched and mapped using the City of Fernley APN parcel base and an AutoCAD program. Based on this effort, the City of Fernley completed and submitted a change application to DWR to change the manner of use and place of use of the remaining City of Fernley future change applications. Additionally, this data was inputted into an ArcGIS program which more easily presents and tracks the data collected to date.

This effort has shown that the past mapping difficulties can be resolved and that a new GIS map can be developed. Although only Section 13 was completed, this process can be applied to the remaining 15 sections of water righted land within the City of Fernley area.

4.2 Recommendations

Recommendations for future actions regarding this initiative include the following:

1. Due to sensitivity of data relating to water rights not owned by the City of Fernley, limited information regarding existing water rights and previous water rights was obtained from TCID. In order to validate the mapping process, cross verification with TCID database would be required. Recommend this information be requested from TCID in order to verify and validate mapping effort.

2. To ensure final acceptance of the mapping effort of section 13 and additional sections within the City of Fernley area, acceptance and approval of the completed maps will need to be obtained. Recommend a review team to include representative from the City of Fernley, DWR, TCID, and BOR to complete the following:

    - The specific water righted locations within each quarter / quarter (TCID water rights maps) was not mapped as part of this project. Although the TCID maps, which are based on square forties, could be

geo-referenced to the City of Fernley APN parcel base, this would only be an approximation of the water righted acreage and location. The TCID information listing the specific breakdown of original farm contracts would need to be obtained and analysis of this information would be required in order to properly define the location of current water rights. Team would analyze the information and re-define the water righted locations.

- Team would review and recommend acceptance of final maps of each section to include: define water rights areas, verify areas removed from irrigation, and determine remaining areas of water rights per APN. These "Base Maps" could eventually be used reference to change applications within the City of Fernley area of the Newlands project. Future change applications could reference these base maps for mapping of the Existing Place of Use.

3. This mapping effort has shown that the water rights within the City of Fernley area can be mapped and presented in a GIS database system. Recommend the mapping of the remaining 15 sections within the City of Fernley area using the process described in this technical memo.