

Memorandum



Buckman Direct Diversion

Date: July 19, 2018
To: Buckman Direct Diversion Board
From: Michael Dozier, BDD Operations Superintendent MD
Subject: Update on BDD Operations for the Month of July 2018

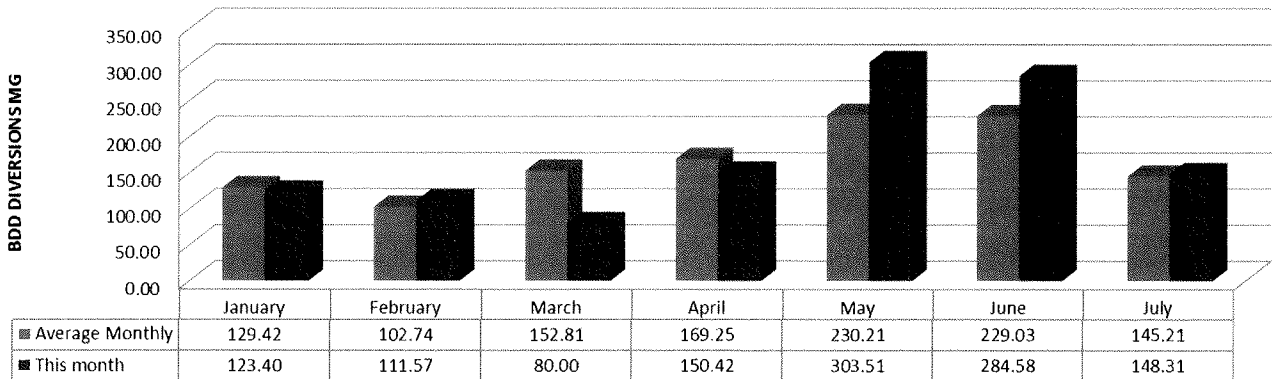
ITEM:

1. This memorandum is to update the Buckman Direct Diversion Board (BDDDB) on BDD operations during the month of July 2018. The BDD diversions and deliveries have averaged, in Million Gallons Per Day (MGD) as follows:
 - a. Raw water diversions: 8.72 MGD
 - b. Drinking water deliveries through Booster Station 4A/5A: 7.47 MGD
 - c. Raw water delivery to Las Campanas at BS2A: 1.04 MGD
 - d. Onsite treated and non-treated water storage: 0.22 MGD

2. The BDD is providing approximately 65% percent of the water supply to the City and County for the month.

3. The BDD year-to-date diversions are depicted below:

Year-To-Date Comparison



4. Background Diversion tables:

Buckman Direct Diversion Monthly SJC and Native Diversions

Jul-18

In Acre-Feet

Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partners Conveyance Losses
JAN	391.362	85.737	0.000	305.624	305.624	0.000	12.745
FEB	354.287	78.300	0.000	275.987	275.987	0.000	14.764
MAR	363.780	267.512	0.000	96.268	96.268	0.000	4.036
APR	662.013	568.860	0.000	93.154	93.154	0.000	3.898
MAY	832.709	214.789	0.000	617.920	518.957	98.963	3.947
JUN	869.278	30.894	0.000	838.384	703.713	134.671	5.617
JUL	503.030	0.000	0.000	503.030	503.030	0.000	2.372
AUG	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SEP	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OCT	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NOV	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DEC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	3,976.460	1,246.093	0.000	2,730.367	2,496.733	233.634	47.378

In Acre-Feet

Month	Native COUNTY	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
JAN	85.737	0.000	292.879	292.879	0.000	378.617
FEB	78.300	0.000	261.223	261.223	0.000	339.523
MAR	267.512	0.000	92.231	92.231	0.000	359.744
APR	568.860	0.000	89.256	89.256	0.000	658.116
MAY	214.789	0.000	590.747	496.136	94.611	805.537
JUN	30.894	0.000	874.895	734.359	140.536	905.789
JUL	0.000	0.000	455.958	455.958	0.000	455.958
AUG	0.000	0.000	0.000	0.000	0.000	0.000
SEP	0.000	0.000	0.000	0.000	0.000	0.000
OCT	0.000	0.000	0.000	0.000	0.000	0.000
NOV	0.000	0.000	0.000	0.000	0.000	0.000
DEC	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	1,246.093	0.000	2,657.191	2,422.043	235.147	3,903.283

2016 Buckman Direct Diversion Monthly SJC and Native Diversions

Month	Total SJC Release (Ac-ft)	Convey- ance Losses (Ac-ft)	Total SJC Available at BDD Diversion (Ac-ft)	CITY Total SJC Diversion (Ac-ft)	Las Campanas Total SJC Diversion (Ac-ft)	Total Native Rio Grande Diversion (Ac-ft)	Total BDD Surface Diversion (Ac-ft)	SJC used to offset Buckman Wells
JAN	328.16	3.03	325.13	325.13		50.54	375.67	
FEB	248.93	2.29	246.65	246.65		77.48	324.13	
MAR	459.31	4.26	455.05	455.05		128.55	583.60	
APR	562.55	5.04	557.51	557.51		145.95	703.46	
MAY	407.82	3.63	404.19	404.19		179.69	583.88	
JUN	291.83	2.66	289.17	191.31	97.86	34.26	323.43	
JUL	360.03	3.26	356.77	251.89	104.87	113.93	470.69	
AUG	133.52	1.22	132.30	88.75	43.55	67.55	199.85	
SEP	313.61	2.52	311.09	311.09		316.73	627.82	
OCT	585.70	4.23	581.47	563.60	17.88	149.97	731.45	
NOV	288.72	2.58	286.14	282.09	4.05	122.83	408.97	
DEC	277.86	2.22	275.64	275.64		109.01	384.65	
TOTALS	4,258.04	36.94	4,221.11	3,952.90	268.21	1,496.49	5,717.60	

Source of SJC Releases in reporting month. Includes conveyance losses.

2016 Month	Total Release (Ac-ft)	ABIQUIU		
		City	County	Club at Las Campanas
JAN	328.16	328.16		
FEB	248.93	248.93		
MAR	459.31	459.31		
APR	562.55	562.55		
MAY	407.82	407.82		
JUN	291.83	193.07		98.76
JUL	360.03	254.20		105.83
AUG	133.52	89.57		43.95
SEP	313.61	313.61		
OCT	585.70	567.69		18.01
NOV	288.71	284.63		4.08
DEC	277.86	277.86		
TOTALS	4,258.03	3,987.40		270.63

2015 Buckman Direct Diversion Monthly SJC and Native Diversions

Month	Total SJC Release (Ac-ft)	Convey-ance Losses (Ac-ft)	Total SJC Available at BDD Diversion (Ac-ft)	CITY Total SJC Diversion (Ac-ft)	Las Campanas Total SJC Diversion (Ac-ft)	Total Native Rio Grande Diversion (Ac-ft)	Total BDD Surface Diversion (Ac-ft)
JAN	246.57	2.40	244.17	244.17		66.12	310.29
FEB	272.15	2.36	269.79	269.79		56.73	326.52
MAR	180.19	1.60	178.59	178.59		178.02	356.61
APR	0.00	0.00	0.00	0.00		40.13	40.13
MAY	226.67	2.15	224.53	224.53		238.73	463.26
JUN	563.77	5.04	558.72	448.40	110.33	128.54	687.27
JUL	299.65	2.70	296.95	234.93	62.02	148.67	445.62
AUG	279.43	2.54	276.89	276.89		213.73	490.62
SEP	552.16	4.98	547.18	547.18		130.85	678.03
OCT	597.48	5.30	592.18	592.18		80.41	672.59
NOV	428.42	3.89	424.52	424.52		66.27	490.79
DEC	197.65	1.76	195.89	195.89		111.20	307.09
TOTALS	3,844.14	34.72	3,809.41	3,637.07	172.35	1,459.40	5,268.82

Source of SJC Releases in reporting month. Includes conveyance losses.

2015 Month	Total Release (Ac-ft)	ABIQUIU		
		City	County	Club at Las Campanas
JAN	246.57	246.57		
FEB	272.15	272.15		
MAR	180.19	180.19		
APR	0.00	0		
MAY	226.67	226.67		
JUN	563.76	452.44		111.32
JUL	299.65	237.07		62.58
AUG	279.43	279.43		
SEP	552.16	552.16		
OCT	597.48	597.48		
NOV	428.42	428.42		
DEC	197.65	197.65		
TOTALS	3,844.13	3,670.23		173.90

2014 Buckman Direct Diversion Monthly SJC and Native Diversions

Month	Total SJC Release (Ac-ft)	Conveyance Losses (Ac-ft)	Total SJC Available at BDD Diversion (Ac-ft)	CITY Total SJC Diversion (Ac-ft)	COUNTY Total SJC Diversion (Ac-ft)	Total Native Rio Grande Diversion (Ac-ft)	Total BDD Surface Diversion (Ac-ft)	SJC used to offset Buckman Wells
JAN	383.35	3.74	390.34	390.34		12.68	403.02	
FEB	349.51	3.28	341.55	341.55		11.38	352.93	
MAR	373.88	3.66	381.69	357.07	34.09	148.83	539.99	
APR	178.75	1.70	176.78	92.46	84.47	227.22	404.15	
MAY	491.46	4.61	480.35	389.13	91.22	374.86	855.21	
JUN	427.50	3.96	412.65	295.07	117.58	292.84	705.49	
JUL	425.22	4.14	431.96	399.51	32.46	72.32	504.29	
AUG	496.68	4.60	479.66	479.66		96.07	575.73	
SEP	552.71	5.40	562.83	562.83		84.85	647.68	
OCT	381.93	3.63	378.30	378.30		142.46	520.76	
NOV	441.14	4.09	426.17	426.17		11.59	437.76	
DEC	423.99	4.13	430.74	430.74		19.56	450.30	
TOTALS	4,926.12	46.94	4,893.02	4,542.83	359.82	1,494.66	6,397.31	

Source of SJC Releases in reporting month. Includes conveyance losses.

2014 Month	Total Release (Ac-ft)	ABIQUIU		
		City	County	Club at Las Campanas
JAN	383.35	383.35		
FEB	349.51	349.51		
MAR	373.74	346.37		27.37
APR	178.83	93.42		85.41
MAY	491.82	399.41		92.41
JUN	427.82	307.54		120.28
JUL	425.22	397.13		28.09
AUG	496.68	496.68		
SEP	552.71	552.71		
OCT	381.93	381.93		
NOV	441.14	441.14		
DEC	423.99	423.99		
TOTALS	4,926.74	4,573.18		353.56

2013 Buckman Direct Diversion Monthly SJC and Native Diversions

Month	Total SJC Release (Ac-ft)	Convey-ance Losses (Ac-ft)	Total SJC Available at BDD Diversion (Ac-ft)	CITY Total SJC Diversion (Ac-ft)	COUNTY Total SJC Diversion (Ac-ft)	Total Native Rio Grande Diversion (Ac-ft)	Total BDD Surface Diversion (Ac-ft)	SJC used to offset Buckman Wells
JAN	439.04	4.24	441.79	441.79		44.09	485.88	
FEB	261.03	2.47	257.94	257.94		10.49	268.43	
MAR	353.69	3.30	343.57	343.57		75.66	419.23	
APR	680.73	6.34	661.33	661.33		89.47	750.80	
MAY	1,045.27	9.88	1,030.46	1030.46		22.86	1,053.32	
JUN	817.91	7.85	734.56	734.56	83.44	260.03	1,078.03	
JUL	606.85	5.90	397.47	397.47	78.83		476.30	138.43
AUG	108.68	0.91	41.68	41.68	36.91		78.59	16.46
SEP	136.77	1.43	63.86	63.86	53.76		117.62	31.68
OCT	255.24	2.46	213.87	213.87	42.66	72.92	329.45	
NOV	196.45	1.88	187.02	187.02	8.48	117.33	312.83	
DEC	293.76	2.63	274.19	274.19		12.25	286.44	
TOTALS	5,195.42	49.29	4,647.74	4,647.74	304.08	705.10	5,656.92	186.57

Source of SJC Releases in reporting month. Includes conveyance losses.

2013 Month	Total Release (Ac-ft)	ABIQUIU		
		City	County	Club at Las Campanas
JAN	439.04	439.04		
FEB	261.03	261.03		
MAR	353.69	353.69		
APR	680.73	680.73		
MAY	1,045.27	1045.27		
JUN	817.90	729.3		88.6
JUL	606.85	473.27		133.58
AUG	108.68	65.21		43.47
SEP	136.77	83.87		52.9
OCT	255.24	211.15		44.09
NOV	196.46	186.31		10.15
DEC	293.76	293.76		
TOTALS	5,195.42	4,822.63		372.79

2012 Buckman Direct Diversion Monthly SJC and Native Diversions

Month	Total SJC Release (Ac-ft)	Conveyance Losses (Ac-ft)	Total SJC Available at BDD Diversion (Ac-ft)	Total SJC Diversion (Ac-ft)	Total Native Rio Grande Diversion (Ac-ft)	Total BDD Surface Diversion (Ac-ft)	SJC used to offset Buckman Wells
JAN	448.09	4.06	447.00	411.56	5.02	416.58	35.44
FEB	210.29	1.97	216.94	208.13	32.21	240.34	8.81
MAR	335.75	2.94	323.61	312.85	59.21	372.06	10.76
APR	528.63	4.72	519.90	519.90	108.61	628.51	
MAY	660.18	6.24	651.05	651.05	145.51	796.56	
JUN	722.36	6.79	692.21	692.21	120.92	813.13	
JUL	152.03	2.23	191.75	157.16		157.16	34.60
AUG	86.08	0.58	60.90	60.90	239.96	300.86	
SEP	637.17	6.05	630.92	630.92	110.07	740.99	
OCT	747.21	7.14	744.87	744.87	50.82	795.69	
NOV	479.19	4.63	482.65	482.65	120.91	603.56	
DEC	442.67	4.17	434.71	434.71	119.44	554.15	
TOTALS	5,449.65	51.52	5,396.51	5,306.91	1,112.68	6,419.59	89.61

Source of SJC Releases in reporting month. Includes conveyance losses.

2012 Month	Total Release (Ac-ft)	HERON		EL VADO		ABIQUIU	
		City	County	City	County	City	County
JAN	448.09					448.09	
FEB						210.29	
MAR						335.75	
APR						528.63	
MAY						660.18	
JUN			27.21			695.15	
JUL			21.42			130.61	
AUG						86.08	
SEP						637.17	
OCT						747.21	
NOV						479.19	
DEC						442.67	
TOTALS	448.09		48.63			5,401.02	

5. Drought/Monsoon, Storage, and ESA Update

NOAA has recently (07/12/18) updated ENSO (El Nino/La Niña) status to: “ENSO-neutral is favored through Northern Hemisphere summer 2018, with the chance for El Niño increasing to about 65% during fall, and to about 70% during winter 2018-19.” Heron, Abiquiu, and El Vado reservoir levels on the Chama River are declining rapidly. Runoff for this year is far below normal due to drought conditions. Local Upper Santa Fe River reservoir storage volume is slowly decreasing (about 25.7% full). These reservoirs are expected to be functionally empty by early August; however, demand can be met by using BDD project water as well as groundwater. The City has received 89% delivery from BoR of full firm-yield of San Juan-Chama Project (SJCP) water so far for year 2018 (through June). Portions of the Rio Grande have begun to dry out, so silvery minnow salvage efforts are underway. Updates on ESA issues will be made as needed. Rio Grande Compact Article VII storage restrictions are in effect, which means the City is not allowed to impound “native” runoff into Nichols and McClure Reservoirs above the pre-Compact pool of 1,061 acre-feet (AF). Updates to this condition will be made as needed; however, Article VII is expected to stay in effect for the foreseeable future.

Most current City of Santa Fe SJCP Reservoir Storage:

Heron:
9,783 AF.

El Vado:
0 AF.

Abiquiu:
6,203 AF. SJCP carry-over from previous years plus 2018 deliveries. No time limit to vacate due to storage agreement with ABCWUA



Date: August 2, 2018
To: Buckman Direct Diversion Board
From: Mackie M. Romero, BDD Financial Manager *mlr*
Subject: Request to reauthorize funding

ITEM AND ISSUE:

Request for approval to reauthorize unexpended funds approved by the BDDDB from the BDD Capital Carve-out budget.

BACKGROUND AND SUMMARY:

On February 21, 2012 the Buckman Direct Diversion Board authorized \$1,558,772.00 of funding from the BDD Capital Outlay budget to carry-forward as the BDD Capital “Carve-out” budget to fund ongoing tasks pursuant to regulatory mandates (e.g. NEPA EIS, Endangered Species Act compliance, permit compliance and habitat mitigation/restoration). These efforts are expected to continue for at least one more year.

As of July 1, 2018 the uncommitted budget balance was \$344,811, which is still needed for ongoing tasks. Therefore the availability of these funds will need to be extended to the new fiscal year to cover the following projected expenses.

Projected expenses:

- \$50,000 Legal services
- \$10,000 Habitat plan update
- \$150,000 Mitigation/Restoration
- \$134,811 Contingency

All expenditures from the “carve-out” budget are being recorded and accounted for in a separate fund and are included in the yearly audit and financial statements. Staff has included an up to date summary of all “carve-out” expenditures.

ACTION REQUESTED:

Staff recommends approval of the attached Budget Amendment Resolution to reauthorize the uncommitted budget balance in the “Carve-out” budget.

Approved by BDDDB August 2, 2018

Councilor Peter Ives, BDDDB Chair



Capital "Carve-Out" Budget 02/21/12	1,558,772
BDD Board Engineer	291,759
Payments:	
CDM Smith	(291,758.69)
	<u>(291,759)</u>
Habitat Mitigation Plan Implementation	835,702
Payments:	
Albuquerque Winnelson Co "Livestock water"	(629.58)
GEO Systems Analysis Inc "Habitat Mitigation"	(244,918.03)
GMA-Ltd "Buckman Well #4 Relocate water lines"	(378.66)
HD Supply Waterworks Ltd "Livestock Water"	(4,621.94)
NMSU AG Science Center "Longstems"	(24,030.00)
Hydra Aquatic Inc "Habitat Mitigation"	(23,280.72)
New Mexican "Habitat Restoration RFP"	(106.24)
Padilla Industries, Inc "Habitat Restoration Efforts"	(322,328.08)
Gallegos Alonzo "Environmental Mitigation"	(69,118.36)
Sequoia Landscaping "Hebicide Work"	(4,981.29)
	<u>(694,393)</u>
Legal Services	250,000
Payments:	
Harwood Consulting LLC	(150,647.50)
Long, Komer & Associates	(40,626.60)
	<u>(191,274)</u>
SWCA Resource Surveys	10,000
USFA / BLM Coordination and Monitoring	36,500
Payments:	
USDA Forest Service "Collection Agreement"	(8,491.84)
USDA Forest Service "Collection Agreement"	(27,416.72)
DOI/BLM Taos Field Office	(626.32)
	<u>(36,535)</u>
Contingency	134,811
Uncommitted Balance	344,811

Log # {Finance use only}:
Batch # {Finance use only}:

City of Santa Fe, New Mexico BUDGET AMENDMENT RESOLUTION (BAR)

DEPARTMENT / DIVISION NAME Buckman Direct Diversion						DATE 08/02/2018
ITEM DESCRIPTION	BUSINESS UNIT	LINE ITEM	SUBSIDIARY {.000000}	SUBLEDGER {0000}	INCREASE	DECREASE
<u>EXPENDITURES</u>					<i>{enter as positive #}</i>	<i>{enter as negative #}</i>
Legal Services	72412	510200			50,000	
Professional Contacts	72412	510310			294,811	
<u>REVENUES</u>					<i>{enter as negative #}</i>	<i>{enter as positive #}</i>
BDD City	71412	491350				164,027
BDD County	71412	491010				164,027
BDD LC Club	71412	439332				16,758

JUSTIFICATION: (use additional page if needed)
--Attach supporting documentation/memo

Approval to extend authorization of the BDD Carve-out budget to FY18/19.

BDDDB Approved August 2, 2018

<i>{Complete section below if BAR results in a net change to ANY Fund}</i>	
Fund(s) Affected:	Fund Bal. Increase/ (Decrease):
TOTAL:	

Mackie Romero	08/02/2018	<i>{Use this form for Finance Committee/ City Council agenda items ONLY}</i>	
Prepared By {print name}	Date	CITY COUNCIL APPROVAL City Council Approval Date: <input style="width: 100px; height: 20px;" type="text"/> Agenda Item #: <input style="width: 100px; height: 20px;" type="text"/>	Budget Officer
Division Director {optional}	Date		Finance Director {≤ \$5,000}
Department Director	Date		City Manager {≤ \$50,000}

Capital Carve - Out Budget: Carry Forward Schedule

FY11/12	Approved Budget 02/21/12		1,558,772.00
	Less Expenses:		
	CDM SMITH	79,237.56	
	HARWOOD CONSULTING LLC	20,452.39	
	USDA FOREST SERVICE	6,812.32	
	Total Expenses		106,502.27
FY12/13	Carryforward Budget		1,452,269.73
	Less Expenses:		
	ALBUQUERQUE WINNELSON COMPANY "Livestock Water"	629.58	
	CDM SMITH	178,701.49	
	DOI/BLM TAOS FIELD OFFICE	626.32	
	GALLEGOS ALONZO	69,118.36	
	GEO SYSTEMS ANALYSIS INC	49,759.07	
	GMA-LTD "Buckman Well #4 Relocate lines"	378.66	
	HARWOOD CONSULTING LLC	35,498.49	
	HD SUPPLY WATERWORKS LTD "Livestock Water"	4,621.94	
	NMSU AG SCIENCE CENTER "Longstems- BDD Habitat Restoration"	4,800.00	
	USDA FOREST SERVICE	12,316.06	
	Total Expenses		356,449.97
FY13/14	Carryforward Budget		1,095,819.76
	Less Expenses:		
	CDM SMITH	33,819.64	
	GEO SYSTEMS ANALYSIS INC	96,186.89	
	HARWOOD CONSULTING LLC	42,582.95	
	HYDRA AQUATIC INC	23,280.72	
	NEW MEXICAN	106.24	
	PADILLA INDUSTRIES INC	312,617.58	
	NMSU AG SCIENCE CENTER "Longstems- BDD Habitat Restoration"	19,230.00	
	USDA FOREST SERVICE	14,931.97	
	Total Expenses		542,755.99
FY14/15	Carryforward Budget		553,063.77
	Less Expenses:		
	GEO SYSTEMS ANALYSIS INC	27,359.38	
	HARWOOD CONSULTING LLC	44,192.58	
	PADILLA INDUSTRIES INC	9,710.50	
	USDA FOREST SERVICE	1,848.21	
	Total Expenses		83,110.67
FY15/16	Carryforward Budget		469,953.10
	Less Expenses:		
	GEO SYSTEMS ANALYSIS INC	66,386.98	
	HARWOOD CONSULTING LLC	7,921.09	
	LONG, KOMER & ASSOCIATES	10,107.18	
	SEQUOIA LANDSCAPING INCORPORATED	4,981.29	
	Total Expenses		89,396.54
FY16/17	Carryforward Budget		380,556.56
	Less Expenses:		
	GEO SYSTEMS ANALYSIS INC	5,225.71	
	LONG, KOMER & ASSOCIATES	21,268.25	
	Total Expenses		26,493.96
FY17/18	Carryforward Budget		354,062.60
	Less Expenses:		
	LONG, KOMER & ASSOCIATES	9,251.17	
	Expenses to date		9,251.17
	Uncommitted Budget Balance as of 06/30/2018		344,811.43