

# MEMORANDUM

September 18, 2009

To: Gary Spackman, Interim Director

From: Cindy Yenter, Water District 130 Watermaster

RE: Accounting of Replacement Water Delivered to NSGWD Conversion Acres

This memo seeks to explain apparent contradictions between recently modeled delivery volumes to the North Snake GWD (NSG) conversion acres, and total replacement water delivery volume as shown in a spreadsheet report received from North Side Canal Co (NSCC), and as referred to by Mr. Randy Budge in his email reply to Phil Rassier on this date.

The contradictions are the result of reference to two or three different spreadsheets which do not necessarily contain or represent the same things. Mr. Budge is correct when he states that "Deliveries through August per NSCC records show 13,403 acre feet." The spreadsheet which was distributed by NSCC with updated replacement deliveries through the end of August shows exactly that. Unfortunately, the spreadsheet included with Mr. Budge's email is not the NSCC spreadsheet. It is a list of names and addresses and acreages for NSG conversion participants who were to continue or resume replacement deliveries in August. This spreadsheet does not show actual deliveries and *does not* include the SRF new conversion participants. However, the 13,403 acre-feet value from NSCC *does* include deliveries to the SRF projects. It also includes an NSCC 30% loss ratio, and delivery of about 700 acre-feet of water in the X-1 lateral for private recharge which is not attributable to any SRF conversion project.

The value which I recently asked Allan Wylie to model was 8385.5 acre-feet. That value is from a spreadsheet I authored in which I utilize the NSCC reported replacement delivery volumes to project headgate delivery amounts to the participating conversion projects through the end of the 2009 irrigation season. The projected value of 8385.5 does not include the SRF project deliveries (shown on the NSCC spreadsheet as Box Canyon Ponds #1, 2 and 3) or the 30% loss charges. Dr. Wylie is using a pre-determined end-of-season value of 3680 acre-feet for the 920 acres in the SRF conversion projects. Dr. Wylie includes the total 30% loss volume separately in modeling runs, as seepage loss spread across the delivery laterals to the projects receiving water.

These seemingly ambiguous values do correlate to one another, although when taken out of context no single one of them entirely represents the facts. Here they are in summary:

7517.06 AF	replacement deliveries through August to existing (9300-acre) projects
2249.10 AF	replacement deliveries through August to SRF projects
2929.85 AF	30% loss ratio through August to all projects
<u>707.07 AF</u>	Faulkner recharge w/ 30% loss in X-1 (not credited to mitigation)
<b>13,403.08 AF</b>	<b>Total NSCC diversions charged to NSG through August</b>
<b>12,696.01 AF</b>	<b>Total replacement volume eligible for mitigation</b>

I recently received an additional update from NSCC which included replacement deliveries through September 15, 2009. As of that date, approximately 8385 AF had been delivered to existing conversion projects, and approximately 2600 AF had been delivered to the SRF projects.

## 2009 Projected Conversion Water Costs based on 2008 deliveries

NAME	ADDRESS	TOWN & ZIP	LEGAL DESCRIPTION	POD	ACRES
Benedictine Monks of ID Inc.	541 East 100 South	Jerome, ID 83338	08S 17E 25 NENESW	100624	425
Bettencourt (Rodney Bolich)				100181	304
Bettencourt Dairies	2930 South 2300 East	Wendell, Idaho 83355	08S 15E 02 NWNENW 3, 08S 15E 02 NWNWNE, 08S 15E 02 SESENE	100476, 100477, 100478	435
Big Sky West	PO Box 407	Jerome, ID 83338	06S 14E 32 SWSE	700035	304
Brandsma Dairy ***	2250 E 3200 S	WENDELL, ID 83355	converts his own surface water	100497	140
Claar, Ron	1150 Ridgeway Rd South	Hazelton, ID 83335	10S 20E 13 SWSWNW	101067	
C. DeKruyf Dairy Partnership	303 West 300 South	Jerome, Idaho 83339	08S 16E 28 SENWSE	100582	163
Niagra - Adrian Boer Canyonside /K&W Dairy	3751 S 2400 E	Jerome, ID 83338		100541, 100542, 100543, 100544, 100545, 1005456, 100549, 100550	1009.6
Boer Dairy LLC (Davis Place S,M, N)	472 S 200 W-Bart Patterson & 3751 S 2400 E	Jerome, Idaho 83338	08S 15E 26 NENWSE,08S 15E 26 SWNWSW	105521, 100523	405
2+ (Adrian Boer) - Miller Farms	3751 S 2400 E	WENDELL, ID 83355			
Dewit Dairy	2011 Bob Barton Hwy	WENDELL, ID 83355	08S 15E 27	100524	144
Dewit Dairy	2011 Bob Barton Hwy	WENDELL, ID 83355	08S 15E 33 & 08S 15E 34	100554	80
Hults, Kay	1425 E 3200 S	WENDELL, ID 83355	07S 14E 22 27	100081	22
Henry Farms	204 S 875 E	Jerome, ID 83338	08S 18E 34/ 09S 18E 12	100891	286
Hirai, Jack - used his own Surface water	3060 S 1950 E	WENDELL, ID 83355	08S 15E 04 NENESE	100480	75
Huettig Brothers	1369 S 2000 E	Hazelton, ID 8335	10S 20E 23 NWSWSW	101090	160
Huettig Brothers	1369 S 2000 E	Hazelton, ID 8335	10S 20E 23 NWSWSW	101090	200
McReits LLC (pd by Betten #5)	P.O. Box 5178	Twin Falls, Idaho 83303	08S 16E 20 NENWSW	101134	229
Ted Miller Dairy	268 South 500 West	Jerome, Idaho 83338	08S 16E 31 NESENE	100589	130
Ravenscroft, Bryan	1328-A Shoestring Rd	Bliss, ID 83314	06S 14 E 32 NESENW	700036	27
Richard Trail Trust	PO Box 509	Twin Falls, Idaho 83303	07S 16 E 32 NWNWSE, 07S 16W 32SEENENW, 07S 16E 32 SWSESW	100159	160
Roth Family LLC	539 South 800 East	Jerome, Idaho 83338	08S 16E 31 NWSENE	100894	161
Ruby, Ken	1884 E 2800 S	WENDELL, ID 83355	07S 15E 29 NWNENE	100127	134
Sawtooth Sheep Co. Inc.	1989 South 1875 East	Gooding, Idaho 83330	08S 16E 31 SESW	700054	374
U-U Ranch LLC	268 South 500 West	Jerome, Idaho 83338	09S 16E 06 SENESW	100845	120
Veenstra, Frank	2675 South 1300 East	Hagerman, Idaho 83332	07S 14E 17 NESWSW	100070	110
Wert, Keith	491 West Main	WENDELL, ID 83355	08S 15E 28	100528	144
					5741.6

Source: Spreadsheet provided to IDWR by Randy Budge thru North Snake GWD, 9/17/09



2009 Groundwater users running water through NSCC System water delivery only															
				alloted shs by feet						1st - 15th					
	rider	h/g	lat		April	May	June	July	August	September	October	Total cfs	Total a/f	Total Cfs thru Aug	Total AF thru Aug
Luis Bettencourt	Young			8.34'								0.00	-	0	0
Brandsma Dairy	Young	37	S-19	1.97'									-	0	0
Trail Est.	Young	4	S-09	3.2'		11.00						11.00	22.00	11	22
Trail Est.	Young	23	W-03	5.83'								0.00	-	0	0
Jack Hirai	Young	1	W-09	1.5'								0.00	-	0	0
Southfield Pond	Kilgrow		W-09										-	0	0
Ken Rudy	Kilgrow	10	X-03	2.67'		26.00						26.00	52.00	26	52
Sawtooth Cattle-Faulkner*	Kilgrow	3	X-01			25.50	77.50	85.25	83.70	40.50					0
Sandy's Pond	Loren		W-26										-	0	0
Henry Farms	Worthington	3	F	2'									-	0	0
Henry Farms	Worthington	30	H	3'		93.00	90.00	45.00	40.00	30.00		298.00	596.00	268	536
Priory	Worthington	115	L	3.17'		37.50	56.00	35.50	30.00	-		159.00	318.00	159	318
Priory	Worthington	116	L	3'								0.00	-	0	0
Si-Ellen	Worthington	16	H	2.42'				74.40	74.40	24.00		172.80	345.60	148.8	297.6
DeKruyf Dairy	Copenbarger	3	N-07	2.45'				48.00	49.60	30.00		127.60	255.20	97.6	195.2
Canyon side	Weeks	30	J-08	19.65'									-	0	0
Canyon side	Weeks	31	J-08			44.00	10.00	124.00	82.00	30.00		290.00	580.00	260	520
Canyon side	Weeks	32	J-08										-	0	0
Adrian Boer (S)	Weeks	22	J-Cou	3.92'								0.00	-	0	0
Miller Farms	Weeks	16	N-10	2.00'									-	0	0
K&W Dairy	Weeks	38	N-10	5.14'									-	0	0
U-U, LLC	Weeks	37	N-10	4.40'		114.40	132.00	136.40	136.40	66.00		585.20	1,170.40	519.2	1038.4
Wayne Wert	Weeks	6	S-23	2.8'		28.00						28.00	56.00	28	56
#1	Weeks	14	S-Cou	6.0'			114.00	197.04	209.56	101.40					0
#3	Weeks	28	S-Cou	3.5'		17.50	105.00	117.30	119.35	57.75					0
#2	Weeks	27	S-39	1.9'		9.50	57.00	85.30	93.00	45.00					0
VanDyke & Sons	Weeks	5	S-39											0	0
Adrian Boer (M)	Weeks	21	S-Cou	6.08'								0.00	-	0	0
Adrian Boer (N)	Weeks	4	S-Cou	2.05'								0.00	-	0	0
Frank Veenstra	Crumrine	57	W	2.69'	43.4	186.62		72.00	-	-		302.02	604.04	302.02	604.04
Joesph Hults	Crumrine	59	W	.45'	2.25	13.95	9.00	9.90	7.65	4.05		46.80	93.60	42.75	85.5
Hole?????	Crumrine		W-37										-	0	0

Source: NSCC deliveries reported to Cindy Yenter, WD130 Watermaster

(Deliveries to "old" conversion projects only. Last two columns are totals thru August - added by C Yenter)

(\* Sawtooth Cattle-Faulkner is IDL project separate mitigation delivery)



2009 Groundwater users running water through NSCC System water delivery only															
				alloted shs by feet						1st - 15th		Total cfs	Total a/f	Total Cfs thru Aug	Total AF thru Aug
	rider	h/g	lat		April	May	June	July	August	September	October				
Janss Hole	Crumrine												-	0	0
Hess (R.Smith)	Tracy	13	W	2.73'								0.00	-	0	0
190 ac.	Tracy	13	W	2.55'								0.00	-	0	0
Vader (R.Smith)	Tracy	14	W									0.00	-	0	0
Ron Smith	Tracy	28	W	1.46'								0.00	-	0	0
Ron Smith	Tracy	31	W	1.46'								0.00	-	0	0
Frank Veenstra	Tracy	12	X-04	1.20'								0.00	-	0	0
Faulkner	Tracy	11	X-05	5.0'			90.00	155.00	155.00	75.00		475.00	950.00	400	800
Ravenscroft	Tracy	1	X-15	1.8'		25.20	4.80	16.80	19.25	6.40		72.45	144.90	66.05	132.1
Big Sky	Tracy	6	X-30	4.18'			7.29	25.11	25.11	5.67		63.18	126.36	57.51	115.02
Frank Veenstra	Tracy	1	X-33	1.85'								0.00	-	0	0
Frank Veenstra	Tracy	2	X-33	0.69								0.00	-	0	0
Frank Veenstra	Tracy	3	X-33	6.04'								0.00	-	0	0
Luis Bettencourt	Seiberling	9	P	4.00'		124.00	120.00	124.00	124.00	60.00		552.00	1,104.00	492	984
Luis Bettencourt	Seiberling	33	U	4.00'		124.00	120.00	124.00	124.00	60.00		552.00	1,104.00	492	984
Huettig Brothers	Hinton	11	A	3.20'		61.50	41.60	72.00	58.60	27.00		260.70	521.40	233.7	467.4
Ron Claar	Hinton	4	Main	2.39'		33.60	30.70	45.60	45.00	15.60		170.50	341.00	154.9	309.8
Sum of deliveries					45.65	975.27	1,064.89	1,592.60	1,476.62	678.37	-		8,384.50		7517.1
Sum of delivers					91.30	1,950.54	2,129.78	3,185.20	2,953.24	1,356.74	-				
30% Loss Ratio +					27.39	585.16	638.93	955.56	885.97	407.02	-				
Monthly a/f with					118.69	2,535.70	2,768.71	4,140.76	3,839.21	1,763.76	-	15,166.84			
Delivery Charge					8.00	8.00	8.00	8.00	8.00	8.00	8.00				
					949.52	20,285.62	22,149.71	33,126.08	30,713.70	14,110.10	-	121,334.72			
15,166.84	Total a/f used for 2009 with loss ratio														
10,000.00						121,334.72	Total April; May; June; July; Aug.								
10,000.00				NSC		(76,510.92)	Less paid								
				(Acct 4012)		44,823.80	Total for August								
												(15,166.84)			

Source: NSCC deliveries reported to Cindy Yenter, WD130 Watermaster  
(Deliveries to "old" conversion projects only. Last two columns are totals thru August - added by C Yenter)  
(\* Sawtooth Cattle-Faulkner is IDL project separate mitigation delivery)



## 2009 Surface Water Conversion Projects (Existing or Old Projects)

WMIS POD #	Owner	2009 Projected AF Adjusted 9/15/09	Wet or Dry	Comments
100535	Anderson, Kenneth C.	0.0	grain	2008 Aug-Oct of 358 AF is greater than 60% of max benefit; adjusted down - <b>9.15 did not resume use of conversion water, no 2009 deliveries recorded.</b>
100624	Benedictine Monks of Idaho Inc.	315.0	60% grain	used previous ordered amount - <b>9.15 have taken no water in Sept, appear to be done. value reflects total 09 delivery.</b>
100138	Bettencourt, Luis	0.0	grain	Wendell Farm used 2008 Aug-Oct. - average credit over all 4 pods. - <b>9.15 did not resume at this location, no 2009 deliveries recorded</b>
100476	Bettencourt, Luis	0.0	grain	Wendell Farm used 2008 Aug-Oct. - average credit over all 4 pods. - <b>9.15 did not resume at this location, no 2009 deliveries recorded</b>
100477	Bettencourt, Luis	0.0	grain	Wendell Farm used 2008 Aug-Oct. - average credit over all 4 pods. - <b>9.15 did not resume at this location, no 2009 deliveries recorded</b>
100478	Bettencourt, Luis	0.0	grain	Wendell Farm used 2008 Aug-Oct. - average credit over all 4 pods. - <b>9.15 did not resume at this location, no 2009 deliveries recorded</b>
100181	Bettencourt, Luis (Bolich place)	1147.0	wet	Bolich Farm - previously modeled at Wendell pods for 2009 - <b>9.15 on track with projected amount.</b>
100183	Bettencourt, Luis (Bolich place)	1147.0	wet	Bolich Farm - previously modeled at Wendell pods for 2009 - <b>9.15 on track with projected amount.</b>
700035	Big Sky Dairy, Russ Visser	150.0	wet	used previous ordered amount - <b>9.15 on track with projected amount.</b>
100829	Boer 2+, Miller Farms	0.0	wet	Had no deliveries in 2008. For 2009 used a pro-rata maximum credit estimate. - <b>9.15 did not resume use. no 2009 deliveries recorded.</b>
100830	Boer 2+, Miller Farms	0.0	wet	Had no deliveries in 2008. For 2009 used a pro-rata maximum credit estimate. - <b>9.15 did not resume use. no 2009 deliveries recorded.</b>
100831	Boer 2+, Miller Farms	0.0	wet	Had no deliveries in 2008. For 2009 used a pro-rata maximum credit estimate. - <b>9.15 did not resume use. no 2009 deliveries recorded.</b>
100521	Boer, Adrian (Davis place - M)	0.0	wet	2008 Aug-Oct - exceeds 60% max credit so adjusted down and spread over all three diversions. - <b>did not resume use. no 2009 deliveries recorded.</b>
100514	Boer, Adrian (Davis place - N)	0.0	wet	2009 Aug-Oct - exceeds 60% max credit so adjusted down and spread over all three diversions. - <b>did not resume use. no 2009 deliveries recorded.</b>
100523	Boer, Adrian (Davis place -S)	0.0	wet	2010 Aug-Oct - exceeds 60% max credit so adjusted down and spread over all three diversions. - <b>did not resume use. no 2009 deliveries recorded.</b>
100465	Box Canyon (Hubbard)			project has been abandoned
100536	Box Canyon (Strickland)	0.0	wet	Had no deliveries in 2008. For 2009 used pro-rata of max delivery credit. - <b>9.15 did not resume. no 2009 deliveries recorded.</b>
100497	Brandsma Dairy	0.0	wet	Had no deliveries in 2008, used shares. For 2009 project a pro-rata maximum credit. - <b>9.15 did not resume. no 2009 deliveries recorded.</b>



## 2009 Surface Water Conversion Projects (Existing or Old Projects)

WMIS POD #	Owner	2009 Projected AF Adjusted 9/15/09	Wet or Dry	Comments
101067	Claar, Ron	389.0	wet 87 ac or 1/2, grain 1/2	used previously ordered amount - 9.15 on track with ordered amount
100582	De Kruyf Dairy	325.0	wet	used previously ordered amount - 9.15 using less than estimated, adjusted down.
100524	Dewit, Neil & Melinda	0.0	wet	Had no deliveries in 2008, used private shares. For 2009, used pro-rata of max delivery credit for 144 acres only. prior modeled acres seem to be in error. - 9.15 did not resume, no 2009 recorded deliveries.
100554	Dewit, Neil & Melinda	0.0	wet	Had no deliveries in 2008, used private shares. For 2009 used pro-rata of max delivery credit. - 9.15 did not resume, no 2009 recorded deliveries.
100509	Dimond, Gary B. & Ruth P.			will not participate 2009
100644	Henry Farms			conversion not completed
100891	Henry Farms	610.0	wet	use prior ordered amount -9.15, using less than estimated, adjusted down.
100480	Hirai, Jack J. or Kunie	0.0	wet	2008 Aug-Oct of 292 AF exceeds 60% of max benefit; adjusted down -9.15 did not resume, no 2009 recorded deliveries
101090	Huettig Brothers	578.0	portion grain but total comb ac should be 772, so 09 proj vol seems reasonable	used previously ordered amount - 9.15 on track with ordered amount
100081	Hults, Kay (Harms place)	100.0	wet	use prior ordered amount - 9.15 using less than estimated, adjusted down
100561	Johnson, Jr., Elmer & Judy	0.0	wet	2008 Aug-Oct of 726 af exceeds max benefit. this project may also include replacement water for pod 100594 and acres aren't being counted. newest plan shows 231 acres not 151. adjusted 2009 vol to 60% of max benefit for 231 acres. -9.15 did not resume, no 2009 recorded deliveries
101134	McReits LLC (formerly Beukers)			not participating in 2009; well is off but using private shares
100827	Meyers, Robert	0.0		used 60% max credit - 9.15 did not participate
100542	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
100543	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
100544	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
100545	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
100546	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.



## 2009 Surface Water Conversion Projects (Existing or Old Projects)

WMIS POD #	Owner	2009 Projected AF Adjusted 9/15/09	Wet or Dry	Comments
100549	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
100550	Niagara - Boer Canyonside	93.5	wet except a128 ac pivot (grain)	used previously ordered amount, average credit over 7 wells - 9.15 using less than estimated, adjusted down.
700036	Ravenscroft, Bryan	150.0	20% wet; 80% dry	used previously ordered amount - 9.15 had used more than ordered.
100159	Richard Trail Trust	22.0	wet	used 2008 Aug-Oct plus May 2009 delivery -9.15 did not resume, no 2009 recorded deliveries except for May.
100160	Richard Trail Trust	0.0	wet	used 2008 Aug-Sept -9.15 did not resume
100161	Richard Trail Trust	0.0	wet	used 2008 Aug-Sept -9.15 did not resume
100894	Roth, James	400.0	wet, irr ac about 190	used previously ordered amount - 9.15 using less than estimated, adjusted down
100127	Ruby, Kenneth E.	52.0	wet, grain in 26 ac?	used 2008 aug-Oct plus May 2009 delivered amount - 9.15 did not resume, no 2009 deliveries except in May.
700054	Sawtooth Sheep Co. Inc.	1000.0	wet on 362 of 494 model ac; rt ac lim to 352, max del should be 1408 af	used previously ordered amount -9.15 on track with ordered amount
100072	Smith, Ronnie D.			not participating 2009
100074	Smith, Ronnie D. (Hess)			not participating 2009
100589	Ted Miller Dairy	0.0	wet	Had no deliveries in 2008. For 2009 used pro-rata of max delivery credit. - 9.15 did not resume, no 2009 recorded deliveries
100845	U-U Ranch (Ledbetter)	645.0	wet	used previously ordered amount - 9.15 have already diverted more than ordered.
100847	U-U Ranch (Ledbetter)	645.0	wet	used previously ordered amount - 9.15 have already diverted more than ordered.
100073	Vader, Orval E. (R Smith)			not participating 2009
100071	Veenstra, Frank	0.0	wet	used 2008 Aug-Sep = 9.15 did not resume, no 2009 recorded deliveries
100070	Veenstra, Frank (Beck place)	0.0	wet	used 2008 Aug-Sep = 9.15 did not resume, no 2009 recorded deliveries
100078	Veenstra, Frank/V & L Dairy			not participating 2009
100064	Veenstra, Frank/Wellard, Larry			not participating 2009
100512	Wert, Loren			not participating 2009
100528	Wert, Wayne K.	56.0	grain or dry	used 2008 Aug-Oct plus May 2009 delivery. The total, 486 af exceeds 60% max credit, so have adjusted down. -9.15 did not resume, no deliveries in 2009 except for May.
	<b>Total</b>	<b>8385.5</b>		