

Harold Snyder
P.O. Box 926
Nipomo, CA 93444
(805) 929-2455 H

January 16, 2008

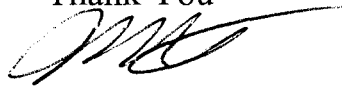
Nipomo Community Services District
148 Wilson Street
P.O. Box 326
Nipomo, CA 93444

(805) 929-1133 Phone
(805) 929-1932 Fax

Dear Bruce Buel:

I Request the copy of the SAIC report that has the October 2007 groundwater storage listed below.

Thank You



Harold Snyder

RECEIVED

JAN 17 2008

NIPOMO COMMUNITY
SERVICES DISTRICT

PRESS RELEASE

For Immediate Release - 01/27/2008

From:

Celeste Whitlow, Conservation/Public Outreach Specialist, Nipomo Community Services District

Email: cwhitlow@ncsd.ca.gov

Phone: 805-929-1133 ext. 209

FALL GROUNDWATER STORAGE READING IS DOWN TO 66,000 ACRE-FEET (A LOSS OF 27,000 ACRE-FEET SINCE SPRING READING)

The October 2007 groundwater storage level of the Nipomo Mesa Management Area aquifer is 66,000 acre-feet. The reading in Spring 2007 was 93,000 acre-feet. The new reading represents a 27,000-acre-foot drop since April 2007.

The measurements and analyses of data were performed by Science Applications International Corporation (SAIC), which also performed the Spring groundwater study.

It is estimated that a groundwater storage level below 60,000 acre-feet would risk saltwater intrusion into the aquifer. If saltwater entered the aquifer, the areas that held saltwater would never again be able to store potable water.

This is the first Fall groundwater storage reading obtained. Whether this large drop is normal or abnormal is unknown. As Spring and Fall readings are obtained in future years, more will be known about the relevance of the Spring versus Fall readings.

More is being learned about the Nipomo groundwater storage area, and this Fall reading is a healthy evolution of what we can learn about the aquifer.

###

(Contact General Manger Bruce Buel at 929-1133 for further information.)

NIPOMO COMMUNITY

BOARD MEMBERS

MICHAEL WINN, PRESIDENT
JAMES HARRISON, VICE PRESIDENT
CLIFFORD TROTTER, DIRECTOR
ED EBY, DIRECTOR
LARRY VIERHEILIG, DIRECTOR



SERVICES DISTRICT

STAFF

BRUCE BUEL, GENERAL MANAGER
LISA BOGNUDA, ASSISTANT ADMINISTRATOR
JON SEITZ, GENERAL COUNSEL

148 SOUTH WILSON STREET POST OFFICE BOX 326 NIPOMO, CA 93444 - 0326
(805) 929-1133 FAX (805) 929-1932 Website address: NCSD.CA.GOV

January 22, 2008

Mr. Harold Snyder
P. O. Box 926
Nipomo, CA 93444

SUBJECT: JANUARY 16, 2008 PUBLIC RECORDS REQUEST RE 1/16/08 SAIC TM

Dear Mr. Snyder,

Attached is a copy of the SAIC Technical Memorandum that you requested in your 1/16/08 Public Records Request.

If you have any questions, please don't hesitate to call me.

Sincerely,

NIPOMO COMMUNITY SERVICES DISTRICT

A handwritten signature in black ink, appearing to be 'Bruce Buel', written over a circular stamp or background.

Bruce Buel
General Manager

CC: Public Records Request File
Chronological File

T:\DOCUMENTS\STAFF FOLDERS\BRUCE\LETTERS\080122Snyder.DOC



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

TECHNICAL MEMORANDUM

TO: Bruce Buel, General Manager, Nipomo Community Services District
FROM: Drew Beckwith and Brad Newton, Ph.D., P.G., SAIC
RE: Groundwater in storage underneath the Nipomo Mesa Management Area as of October 2007, Project Number 01-0236-00-9103
DATE: January 16, 2008

INTRODUCTION

Nipomo Community Services District (NCSD) directed SAIC to determine the amount of groundwater in storage above sea level (GWS) within the principal production aquifer underlying the Nipomo Mesa Management Area (NMMA) based on groundwater surface elevation measurements for Fall 2007. This differs from prior analyses conducted by SAIC dated October 2006 (TM #1), May 2007 (TM #4), and August 2007 (TM #4 Revision), which estimated GWS based on groundwater surface elevation measurements for Spring, as this is the 1st estimate of Fall GWS. It is expected that higher levels of GWS will be measured in the Spring following precipitation and groundwater recharge occurring during the winter, and lower levels of GWS will be measured in the Fall because a majority of groundwater production occurs during the summer. This cyclical pattern is anticipated to repeat annually.

RESULTS

The Fall 2007 GWS is approximately 66,000 acre-feet (AF). Spring 2007 GWS was approximately 93,000 AF (SAIC TM #4 Revision). Overall, groundwater surface elevations measured in Fall 2007 are lower than Spring 2007, less two measures (n=42, Table 1). In general, groundwater continues to flow seaward, as expressed in the surface elevation gradient of both Spring and Fall. However, the area near the western boundary below sea level has increased (Figure 1).

METHODOLOGY

Groundwater in storage calculations were made from measurements made in wells screened within the principal production aquifer which also had a groundwater surface elevation measurement for Fall 2007. Well completion reports, lithographic logs, electronic logs, and pump tests obtained from DWR were used to verify that each screened interval is within the principal production aquifer (Paso Robles Formation). Groundwater surface elevation measurements that do not represent water in the principal production aquifer were not included in this analysis. None of NCSD's production wells were included in the analysis.

D
R
A
F
T

m:\ncsd (9100 9228 5058)\tasks\general consultation - 9103\activities\tm7 groundwater in storage fall 2007\2008-01-16 groundwater in storage fall 2007.docx

To: Bruce Buel
Re: GWS Fall 2007
Date: January 16, 2007
Page: 2 of 2

1 ***Groundwater Surface Elevation Measurements***

2 Groundwater surface elevation measurements were obtained from the San Luis Obispo
3 County Department of Public Works (SLO DPW) and Woodlands (Figure 1). One elevation
4 measurement that changed by approximately 250 feet from Spring to Fall was not considered in
5 the calculation of GWS because of the value is likely suspect.

6 ***Groundwater Surface Interpolation***

7 The individual groundwater surface measurements were interpolated to a groundwater
8 surface elevation field using the inverse distance weighting method (Figure 1). The
9 interpolation is based on groundwater surface elevation data alone, and does not incorporate
10 structural geology that may or may not influence the groundwater surface.

11 ***Groundwater Volume Estimate***

12 The volume of groundwater in storage under the NMMA was estimated using the
13 boundary determined in Phase III of the trial. The groundwater volume above sea level was
14 estimated by subtracting both the sea level surface (elevation equals zero) and the volume of
15 bedrock above sea level from the saturated volume. The bedrock surface elevation is based on
16 Figure 11: Base of Potential Water-Bearing Sediments, presented in the report, Water Resources
17 of the Arroyo Grande - Nipomo Mesa Area (DWR 2002). The bedrock surface elevation was
18 preliminarily verified by reviewing driller reports obtained from DWR. The saturated volume
19 above sea level was multiplied by the specific yield of 11.7% to estimate the GWS. The specific
20 yield was based on the average weighted specific yield for the Nipomo Mesa Hydrologic Sub-
21 Area (DWR 2002, pg. 86).

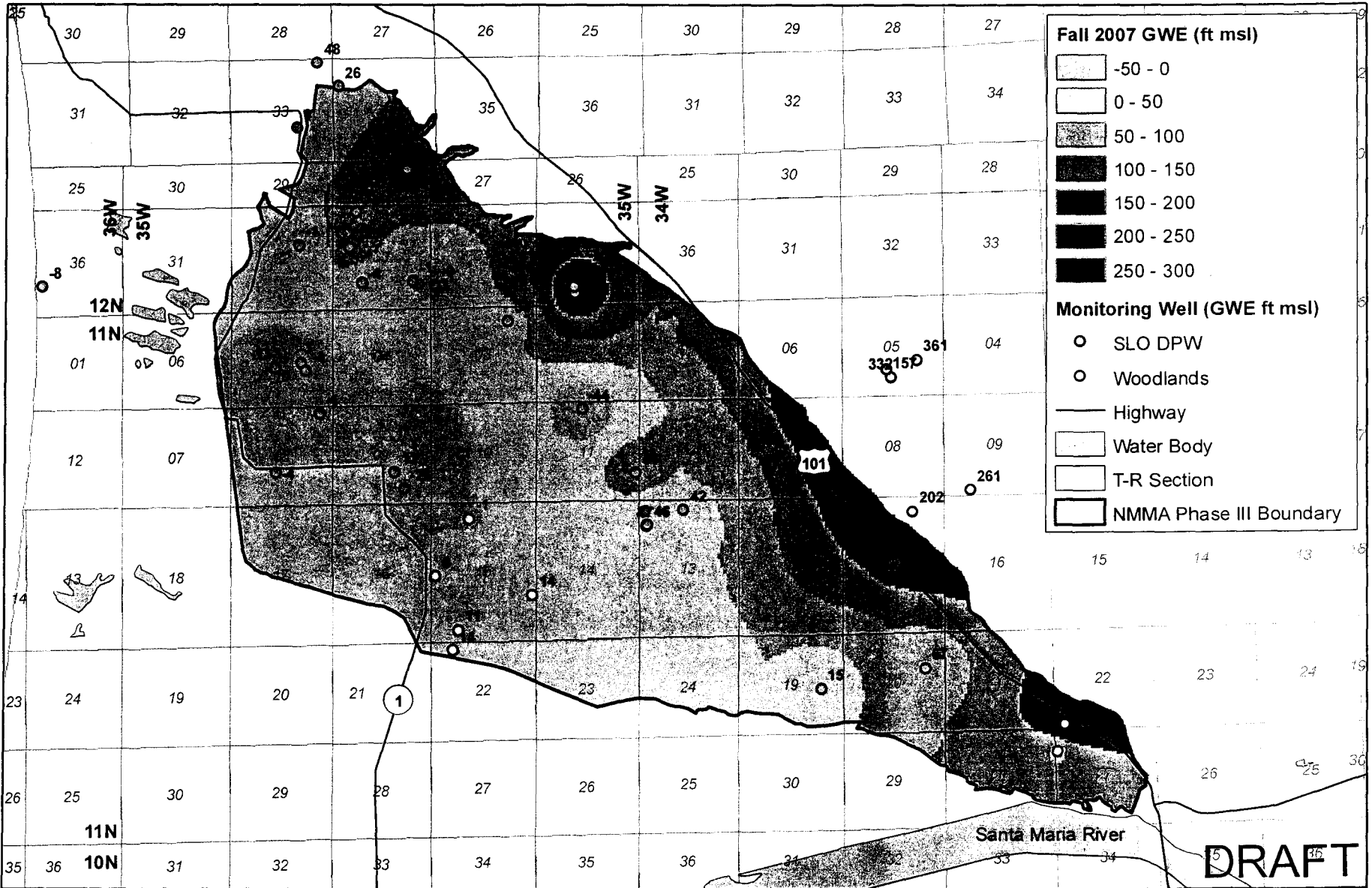
22

23 **REFERENCES**

24 Department of Water Resources (DWR). 2002. Water Resources of the Arroyo Grande -
25 Nipomo Mesa Area, Southern District Report.

26 SAIC TM #4 Revision. Revision of Groundwater in storage underneath the Nipomo Mesa
27 Management Area as of April 2007. August 28, 2007.

D
R
A
F
T

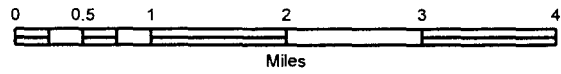


File: .../TM7/NMMA 2007 Fall GWE.mxd

NOTES:
 Coordinate System: UTM Zone 10N
 Horizontal Datum: NAD 83



Fall 2007 Groundwater Surface Elevations



FIGURE

1

DATE 01/11/08

BY D Beckwith

Table 1.

Groundwater surface elevation measurements used in the Fall 2007 GWS analysis.

Well ID	Well Name	Latitude (decimal degrees)	Longitude (decimal degrees)	Monitoring Agency	Date (Spring 07)	GWE (ft msl)	Date (Fall 07)	GWE (ft msl)	Change in GWE (Spring to Fall, ft)
11N34W05J01S	-	35.0604	-120.4757	SLO DPW	4/19/2007	359.2	10/23/2007	360.6	1.5
11N34W05K01S	TODD DOMESTIC	35.0580	-120.4803	SLO DPW	4/19/2007	334.8	10/23/2007	332.3	-2.5
11N34W05K02S	TODD IRRIGATION	35.0592	-120.4810	SLO DPW	4/19/2007	252.7	10/23/2007	157.4	-95.3
11N34W09P01S	-	35.0417	-120.4667	SLO DPW	4/19/2007	285.0	10/23/2007	261.0	-24.0
11N34W17B04S	-	35.0389	-120.4769	SLO DPW	4/19/2007	253.2	10/23/2007	202.5	-50.7
11N34W19Q01S	BENNY - DIVISION	35.0138	-120.4935	SLO DPW	4/23/2007	29.5	10/23/2007	15.4	-14.1
11N34W20J02S	EGG FARM	35.0164	-120.4753	SLO DPW	4/23/2007	70.2	10/23/2007	67.1	-3.1
11N34W27D01S	P G & E	35.0078	-120.4510	SLO DPW	4/23/2007	207.6	10/23/2007	208.7	1.1
11N34W27E01S	LAMPHIER - MESA	35.0039	-120.4525	SLO DPW	4/23/2007	101.4	10/23/2007	92.0	-9.4
11N35W03B01S	FITZPATRICK - FRANKIE	35.0674	-120.5469	SLO DPW	4/23/2007	36.8	10/23/2007	34.2	-2.6
11N35W05G01S	ANDREWS - FOWLER LANE	35.0622	-120.5830	SLO DPW	4/24/2007	8.2	10/22/2007	-2.8	-11.0
11N35W05G02S	WHITE - FOWLER LANE	35.0610	-120.5823	SLO DPW	4/24/2007	-4.1	10/22/2007	-4.5	-0.4
11N35W05L01S	SACKMAN - HWY #1	35.0615	-120.5874	SLO DPW	4/24/2007	-3.2	10/22/2007	-13.1	-9.9
11N35W05L03S	SACKMAN	35.0615	-120.5876	SLO DPW	4/24/2007	6.4	10/22/2007	0.2	-6.2
11N35W05R01S	GATES - CALLENDER	35.0548	-120.5800	SLO DPW	4/24/2007	6.1	10/22/2007	-3.6	-9.7
11N35W08L01S	-	35.0465	-120.5878	SLO DPW	4/24/2007	4.1	10/22/2007	-4.1	-8.1
11N35W09K02S	SCHAEFER - HWY#1/WILLOW	35.0463	-120.5671	SLO DPW	4/24/2007	21.1	10/22/2007	12.5	-8.6
11N35W09K04S	CASANO - HWY#1/WILLOW	35.0439	-120.5655	SLO DPW	4/24/2007	-6.4	10/22/2007	-25.5	-19.1
11N35W11C02S	STRUBLE - MESA	35.0547	-120.5342	SLO DPW	4/24/2007	-22.2	10/22/2007	-43.6	-21.4
11N35W11J01S	CAMACHO - MESA	35.0454	-120.5251	SLO DPW	4/23/2007	88.6	10/22/2007	85.6	-3.0
11N35W13C01S	ARLT - POMEROY	35.0399	-120.5169	SLO DPW	4/19/2007	51.5	10/22/2007	42.3	-9.2
11N35W13D01S	KAMINAKA	35.0398	-120.5238	SLO DPW	4/23/2007	24.6	10/24/2007	14.5	-10.2
11N35W13E02S	KAMINAKA - SOUTH	35.0377	-120.5235	SLO DPW	4/19/2007	55.0	10/24/2007	47.0	-8.0
11N35W13E03S	KAMINAKA - NORTH	35.0378	-120.5233	SLO DPW	4/19/2007	58.2	10/24/2007	45.5	-12.7
12N35W28J02S	BARNETT - HALCYON	35.0893	-120.5640	SLO DPW	4/17/2007	133.7	10/16/2007	133.2	-0.5
12N35W32G01S	COLE - HALCYON	35.0787	-120.5830	SLO DPW	4/24/2007	4.3	10/24/2007	-1.0	-5.3
12N35W33D01S	PHIL - BEN	35.0833	-120.5729	SLO DPW	4/17/2007	88.8	10/16/2007	73.0	-15.8
12N35W33E01S	RENO - HALCYON	35.0783	-120.5742	SLO DPW	4/24/2007	107.5	10/24/2007	102.7	-4.8
12N35W33J02S	DICK - FERNDAL	35.0727	-120.5595	SLO DPW	4/23/2007	-5.0	10/24/2007	-9.0	-4.0
12N35W33J03S	FAGUNDES - FERNDAL	35.0733	-120.5633	SLO DPW	4/23/2007	3.8	10/19/2007	-1.4	-5.3
12N35W33L01S	JOHNSON - HALCYON	35.0732	-120.5721	SLO DPW	4/23/2007	2.3	10/24/2007	-4.5	-6.8
12N35W35P01S	JOHNSON - APPLGATE RANCH	35.0711	-120.5351	SLO DPW	4/19/2007	182.8	10/24/2007	179.9	-2.8
12N35W35P03S	SEVERENCE - DOMESTIC	35.0719	-120.5352	SLO DPW	4/19/2007	168.5	10/19/2007	165.9	-2.6
12N36W36L01S	PISMO BEACH - EAST	35.0737	-120.6283	SLO DPW	4/18/2007	-7.4	10/18/2007	-8.5	-1.2
32S13E33A05M	GARING - LOS BERROS	35.1049	-120.5792	SLO DPW	4/17/2007	67.7	10/16/2007	48.2	-19.5
32S13E33A06M	GARING NEW DOM	35.1014	-120.5756	SLO DPW	4/17/2007	41.3	10/16/2007	26.4	-14.9
32S13E33K03M	WALLER SEED COMPANY	35.0956	-120.5830	SLO DPW	4/17/2007	17.6	10/16/2007	8.7	-8.9
-	DAWN	35.0393	-120.5542	Woodlands	1/11/2007	21.3	10/16/2007	-0.9	-22.2
-	FLINTCOTE	35.0234	-120.5564	Woodlands	1/11/2007	31.5	10/16/2007	11.3	-20.3
-	HOMESTEAD	35.0205	-120.5575	Woodlands	1/11/2007	21.4	10/16/2007	13.7	-7.8
-	HWY 1	35.0312	-120.5603	Woodlands	1/11/2007	23.9	10/16/2007	6.2	-17.7
-	MESA ROAD	35.0282	-120.5435	Woodlands	1/11/2007	31.8	10/16/2007	13.7	-18.0

Groundwater surface elevation measurements not used in the Fall 2007 GWS analysis.

Well ID	Well Name	Latitude (decimal degrees)	Longitude (decimal degrees)	Monitoring Agency	Date (Spring 07)	GWE (ft msl)	Date (Fall 07)	GWE (ft msl)	Change in GWE (Spring to Fall, ft)
11N34W06L01S	-	35.0616	-120.5011	SLO DPW	4/19/2007	201.6	10/23/2007	-58.2	-259.8 (suspect)
11N35W11C01S	NASHOLM - MESA	35.0547	-120.5340	SLO DPW	4/24/2007	-4.1	10/22/2007	no access	
12N35W34G08S	OLIVER - LOS BERROS	35.0795	-120.5496	SLO DPW	4/17/2007	153.9	10/16/2007	pumping	