

# argon laboratories

28 July 2009

Jeff Schultz  
ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

RE: ConAgra Aerated Pond Project Data

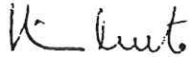
Enclosed are the results for sample(s) received on 07/15/09 15:40 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,



Hiram Cueto  
Lab Manager

**Chain of Custody**

Project No. 102-19		Project Name: ConAgm Aerial Pond Soil Sampling		Page of		Report To	
Sample (Signature)	(Print)			Parameters		Preservative	
<i>J. Fournelle</i>	J. Fournelle						
Sample Identification Number	Date	Time	Water	Soil	Other	Sampling Location	No. of Containers
WP 172-Solids	7/14/09		X				1
WP 182-CHM17	7/14/09		X				1
WP 181-Solids	7/14/09		X				1
WP 181-CHM17	7/14/09		X				1
WP 180-Solids	7/14/09		X				1
WP 179-Solids	7/14/09		X				1
WP 179-CHM17	7/14/09		X				1
WP 172-Solids	7/14/09		X				1
WP 172-CHM17	7/14/09		X				1
WP 175-Solids	7/14/09		X				1
WP 175-CHM17	7/14/09		X				1
WP 176-Solids	7/14/09		X				1
WP 176-CHM17	7/14/09		X				1
WP 178-Solids	7/14/09		X				1
WP 178-CHM17	7/14/09		X				1
Relinquished By: <i>J. Fournelle</i> (Signature)		Date/Time: 7/14/09 17:33		Received By: <i>J. Schumacher</i> (Signature)		Date/Time: 07-14-09 5:35pm	
Relinquished By: <i>J. Fournelle</i> (Signature)		Date/Time: 7/15/09 15:40		Received By: <i>J. Schumacher</i> (Signature)		Date/Time: 7/15/09 15:40	
Company: DENVER		Company: DENVER		Company: DENVER		Company: DENVER	

Copy to:

# Argon Laboratories Sample Receipt Checklist

Client Name: ConAgra Oakdale Date & Time Received: 07/15/05 15:40

Project Name: Aerated Pond Soil Sampling Client Project Number: 102-19

Received By: H.C. Matrix: Water  Soil  Sludge

Sample Carrier: Client  Laboratory  Fed Ex  UPS  Other

Argon Labs Project Number: J907033

Shipper Container in good condition? N/A  Yes  No  Samples received in proper containers? Yes  No

Samples received under refrigeration? Yes  No  Samples received intact? Yes  No

Chain of custody present? Yes  No  Sufficient sample volume for requested tests? Yes  No

Chain of Custody signed by all parties? Yes  No  Samples received within holding time? Yes  No

Chain of Custody matches all sample labels? Yes  No  Do samples contain proper preservative? N/A  Yes  No

Do VOA vials contain zero headspace? (None submitted ) Yes  No

-----  
**ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW**  
 -----

Date Client Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_

Contacted By: \_\_\_\_\_ Subject: \_\_\_\_\_

**Comments:**

**Action Taken:**

-----  
**ADDITIONAL TEST(S) REQUEST / OTHER**  
 -----

Contacted By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Call Received By: \_\_\_\_\_

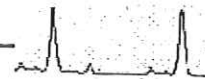
**Comments:**





ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz



Work Order No.:  
J907033

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP 182 -CAM 17	J907033-01	Soil	07/14/09 08:00	07/15/09 15:40
WP 181 -CAM 17	J907033-02	Soil	07/14/09 08:05	07/15/09 15:40
WP 179 -CAM 17	J907033-03	Soil	07/14/09 08:10	07/15/09 15:40
WP 172 -CAM 17	J907033-04	Soil	07/14/09 08:15	07/15/09 15:40
WP 175 -CAM 17	J907033-05	Soil	07/14/09 08:20	07/15/09 15:40
WP 176 -CAM 17	J907033-06	Soil	07/14/09 08:25	07/15/09 15:40
WP 178 -CAM 17	J907033-07	Soil	07/14/09 08:30	07/15/09 15:40

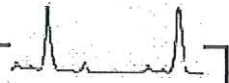
Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz



Work Order No.:  
J907033

**Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
<b>WP 182 -CAM 17 (J907033-01) Soil</b> Sampled: 14-Jul-09 08:00 Received: 15-Jul-09 15:40							
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	2.3	1.0	"	"	"	"	
Barium	40	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	14	1.0	"	"	"	"	
Cobalt	2.0	1.0	"	"	"	"	
Copper	26	2.0	"	"	"	"	
Lead	2.8	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	15	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	15	1.0	"	"	"	"	
Zinc	43	5.0	"	"	"	"	

<b>WP 181 -CAM 17 (J907033-02) Soil</b> Sampled: 14-Jul-09 08:05 Received: 15-Jul-09 15:40							
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.7	1.0	"	"	"	"	
Barium	39	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	12	1.0	"	"	"	"	
Cobalt	2.1	1.0	"	"	"	"	
Copper	24	2.0	"	"	"	"	
Lead	2.3	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	11	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	13	1.0	"	"	"	"	
Zinc	39	5.0	"	"	"	"	

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ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz

Work Order No.:  
J907033

**Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
<b>WP 179 -CAM 17 (J907033-03) Soil</b> Sampled: 14-Jul-09 08:10 Received: 15-Jul-09 15:40							
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.5	1.0	"	"	"	"	
Barium	40	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	14	1.0	"	"	"	"	
Cobalt	2.3	1.0	"	"	"	"	
Copper	26	2.0	"	"	"	"	
Lead	3.0	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	13	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	14	1.0	"	"	"	"	
Zinc	45	5.0	"	"	"	"	

**WP 172 -CAM 17 (J907033-04) Soil** Sampled: 14-Jul-09 08:15 Received: 15-Jul-09 15:40

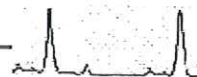
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.5	1.0	"	"	"	"	
Barium	34	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	11	1.0	"	"	"	"	
Cobalt	1.9	1.0	"	"	"	"	
Copper	23	2.0	"	"	"	"	
Lead	2.7	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	13	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	13	1.0	"	"	"	"	
Zinc	42	5.0	"	"	"	"	

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554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz



Work Order No.:  
J907033

**Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
<b>WP 175 -CAM 17 (J907033-05) Soil Sampled: 14-Jul-09 08:20 Received: 15-Jul-09 15:40</b>							
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.9	1.0	"	"	"	"	
Barium	48	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	14	1.0	"	"	"	"	
Cobalt	2.3	1.0	"	"	"	"	
Copper	28	2.0	"	"	"	"	
Lead	1.7	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	11	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	12	1.0	"	"	"	"	
Zinc	45	5.0	"	"	"	"	

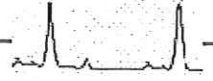
**WP 176 -CAM 17 (J907033-06) Soil Sampled: 14-Jul-09 08:25 Received: 15-Jul-09 15:40**

Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.7	1.0	"	"	"	"	
Barium	68	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	18	1.0	"	"	"	"	
Cobalt	3.0	1.0	"	"	"	"	
Copper	40	2.0	"	"	"	"	
Lead	1.4	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	15	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	17	1.0	"	"	"	"	
Zinc	51	5.0	"	"	"	"	

Approved By

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ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz

Work Order No.:  
J907033

**Metals**

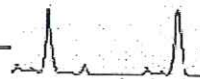
Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
<b>WP 178 -CAM 17 (J907033-07) Soil Sampled: 14-Jul-09 08:30 Received: 15-Jul-09 15:40</b>							
Antimony	ND	2.0	mg/kg	1	23-Jul-09	EPA 6020A	
Arsenic	1.6	1.0	"	"	"	"	
Barium	52	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	18	1.0	"	"	"	"	
Cobalt	2.5	1.0	"	"	"	"	
Copper	30	2.0	"	"	"	"	
Lead	2.5	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
Nickel	14	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	14	1.0	"	"	"	"	
Zinc	48	5.0	"	"	"	"	

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Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz



Work Order No.:  
J907033

**Metals - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901393 - 3050B**

**Blank (J901393-BLK1)**

Prepared: 07/22/09 Analyzed: 07/23/09

Antimony	ND	2.0	mg/kg							
Arsenic	ND	1.0	"							
Barium	ND	5.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	1.0	"							
Chromium	ND	1.0	"							
Cobalt	ND	1.0	"							
Copper	ND	2.0	"							
Lead	ND	1.0	"							
Mercury	ND	0.1	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Selenium	ND	1.0	"							
Silver	ND	1.0	"							
Thallium	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	5.0	"							

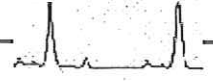
**LCS (J901393-BS1)**

Prepared: 07/22/09 Analyzed: 07/23/09

Antimony	9.50		mg/kg	10	95	80-120
Arsenic	11.1		"	10	111	80-120
Barium	102		"	100	102	80-120
Beryllium	9.20		"	10	92	80-120
Cadmium	9.60		"	10	96	80-120
Chromium	10.3		"	10	103	80-120
Cobalt	10.2		"	10	102	80-120
Copper	10.0		"	10	100	80-120
Lead	9.60		"	10	96	80-120
Mercury	0.53		"	0.50	106	80-120
Molybdenum	10.4		"	10	104	80-120
Nickel	10.2		"	10	102	80-120
Selenium	10.0		"	10	100	80-120
Silver	9.00		"	10	90	80-120
Thallium	12.7		"	10	127	80-120
Vanadium	10.0		"	10	100	80-120
Zinc	94.0		"	100	94	80-120

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc. 554 S. Yosemite Ave Oakdale, CA 95361	Project Number: 102-19 Project Name: ConAgra Aerated Pond Project Manager: Jeff Schultz	Work Order No.: J907033
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**Metals - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901393 - 3050B**

**LCS Dup (J901393-BSD1)**

Prepared: 07/22/09 Analyzed: 07/23/09

Antimony	9.70		mg/kg	10		97	80-120	2	20	
Arsenic	11.0		"	10		110	80-120	0.9	20	
Barium	102		"	100		102	80-120	0	20	
Beryllium	9.20		"	10		92	80-120	0	20	
Cadmium	9.50		"	10		95	80-120	1	20	
Chromium	10.3		"	10		103	80-120	0	20	
Cobalt	10.2		"	10		102	80-120	0	20	
Copper	10.0		"	10		100	80-120	0	20	
Lead	9.60		"	10		96	80-120	0	20	
Mercury	0.51		"	0.50		102	80-120	4	20	
Molybdenum	10.4		"	10		104	80-120	0	20	
Nickel	10.2		"	10		102	80-120	0	20	
Selenium	9.90		"	10		99	80-120	1	20	
Silver	9.00		"	10		90	80-120	0	20	
Thallium	12.8		"	10		128	80-120	0.8	20	
Vanadium	10.0		"	10		100	80-120	0	20	
Zinc	94.0		"	100		94	80-120	0	20	

**Matrix Spike (J901393-MS1)**

Source: J907029-01

Prepared: 07/22/09 Analyzed: 07/23/09

Antimony	6.80		mg/kg	10	0.01	68	70-130			
Arsenic	11.9		"	10	0.01	119	70-130			
Barium	82.0		"	100	0.48	82	70-130			
Beryllium	8.50		"	10	ND	85	70-130			
Cadmium	7.90		"	10	0.002	79	70-130			
Chromium	8.35		"	10	0.15	82	70-130			
Cobalt	8.10		"	10	0.02	81	70-130			
Copper	8.90		"	10	0.32	86	70-130			
Lead	7.70		"	10	0.02	77	70-130			
Mercury	0.60		"	0.50	ND	119	70-130			
Molybdenum	8.40		"	10	0.005	84	70-130			
Nickel	8.10		"	10	0.12	80	70-130			
Selenium	8.20		"	10	ND	82	70-130			
Silver	0.00		"	10	ND		70-130			
Thallium	6.20		"	10	ND	62	70-130			
Vanadium	8.30		"	10	0.12	82	70-130			
Zinc	81.5		"	100	0.47	81	70-130			

QM-05

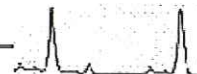
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ConAgra Foods Inc.  
554 S. Yosemite Ave  
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Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz



Work Order No.:  
J907033

**Metals - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901393 - 3050B**

**Matrix Spike Dup (J901393-MSD1)**

Source: J907029-01

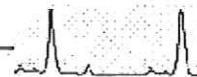
Prepared: 07/22/09

Analyzed: 07/23/09

Antimony	6.70		mg/kg	10	0.01	67	70-130	1	20	
Arsenic	12.1		"	10	0.01	121	70-130	2	20	
Barium	83.0		"	100	0.48	83	70-130	1	20	
Beryllium	8.80		"	10	ND	88	70-130	3	20	
Cadmium	8.10		"	10	0.002	81	70-130	3	20	
Chromium	8.65		"	10	0.15	85	70-130	4	20	
Cobalt	8.30		"	10	0.02	83	70-130	2	20	
Copper	8.90		"	10	0.32	86	70-130	0	20	
Lead	7.90		"	10	0.02	79	70-130	3	20	
Mercury	0.61		"	0.50	ND	122	70-130	2	20	
Molybdenum	8.50		"	10	0.005	85	70-130	1	20	
Nickel	8.30		"	10	0.12	82	70-130	2	20	
Selenium	8.30		"	10	ND	83	70-130	1	20	
Silver	0.00		"	10	ND		70-130		20	QM-05
Thallium	6.20		"	10	ND	62	70-130	0	20	
Vanadium	8.50		"	10	0.12	84	70-130	2	20	
Zinc	87.5		"	100	0.47	87	70-130	7	20	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc.  
554 S. Yosemite Ave  
Oakdale, CA 95361

Project Number: 102-19  
Project Name: ConAgra Aerated Pond  
Project Manager: Jeff Schultz

Work Order No.:  
J907033

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

---

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



# DENELE ANALYTICAL, INC.

1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com

July 20, 2009

Dunn Environmental Inc  
5060 Robert J Matthews Parkway  
Suite 2  
El Dorado CA 95762

Listed below are the lab results for soil you submitted to our lab to be analyzed:

LAB#	SAMPLE ID	SAR%	BUFFER pH	FDS mg/L
S73994901	6-25 NE CORNER	.16	*	224
S73994902	6-26 SETTLING POND	.45	*	796
S73994903	6-27 SE CORNER	.56	*	412
S73994904	6-27 SW CORNER	.37	*	301
S73994905	6-29 S CENTRAL	.31	*	376
S73994906	6-29 WEST SIDE	.42	*	174
S73994907	6-29 SE SIDE	.47	*	277
S73394908	6-30 EAST SIDE	.36	*	156
S73994909	6-30 SOUTH SIDE	.47	6.7	196
S73994910	6-26 NW CORNER	.59	*	191

\* indicates pH 6.0 or below

Any questions please do not hesitate to contact us at 209-634-9055. Thank you for choosing Denele Analytical, Inc. as your preferred lab.

Sincerely,

Julie Mormile  
Office Manager  
Denele Analytical





# DENELE ANALYTICAL, INC.

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Grower: **G000188**

Submitted By:

Lab # S73994901

Variety:

**Dunn Enviromental Inc**

Date Received: 7/09/2009

Acres:

5060 Robert J Matthews Parkway

Date Completed: 7/09/2009

Yield: 1 Tons

Suite 2

Crop: Fallow

El Dorado Hills, CA 95762

Sample ID: **6-25 NE CORNER**

G PYKA

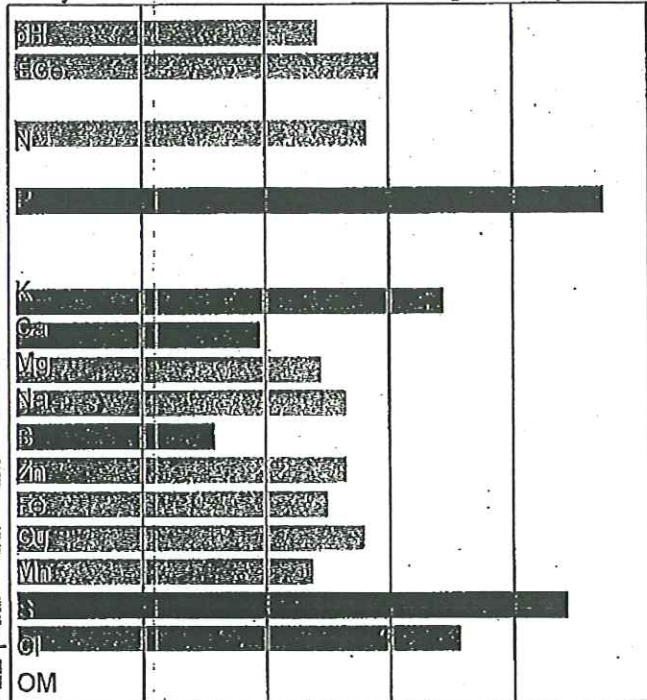
## Soil Test Results

pH: 6.3 su  
 E.C.e: 1.59 m.mhos  
 Soluble Salts: 1.018 ppm  
 NO<sub>3</sub> - Nitrate Nitrogen: 44 ppm  
 NH<sub>4</sub> - Ammonium Nitrogen: ppm  
 PO<sub>4</sub> - Olsen Phosphorus: 98 ppm  
 PO<sub>4</sub> - Bray Phosphorus: ppm

	Base Saturation % Yours	Optimum	Ammonium Acetate
K - Potassium	8.2	2 - 5 %	348 ppm
Ca - Calcium	56.8	65-80 %	1,260 ppm
Mg - Magnesium	15.3	10-20 %	201 ppm
Na - Sodium	2.9	0-5 %	73 ppm

B - Boron: 0.15 ppm  
 Zn - Zinc: 16.0 ppm  
 Fe - Iron: 58.0 ppm  
 Cu - Copper: 12.0 ppm  
 Mn - Manganese: 17.0 ppm  
 SO<sub>4</sub> - Sulfate Sulfur: 180 ppm  
 Cl - Chloride: 4.3 meq/L  
 Organic Matter: %  
 Cation Exchange Capacity: meq/100 gm 10.8 (Est.)  
 Percolation: High  
 Excess Carbonates: None  
 Free Lime: %  
 SMP Buffer pH:

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

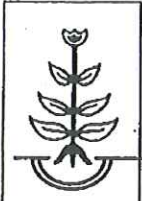
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 297mg/L TN .294% MOIST 59.3% TDS 828mg/L TOC 2.2%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

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Grower: **G000188**

Submitted By:

Lab # S73994902

Variety:

**Dunn Enviromental Inc**

Date Received: 7/09/2009

Acres:

5060 Robert J Matthews Parkway

Date Completed: 7/09/2009

Yield: 1 Tons

Suite 2

Crop: Fallow

El Dorado Hills, CA 95762

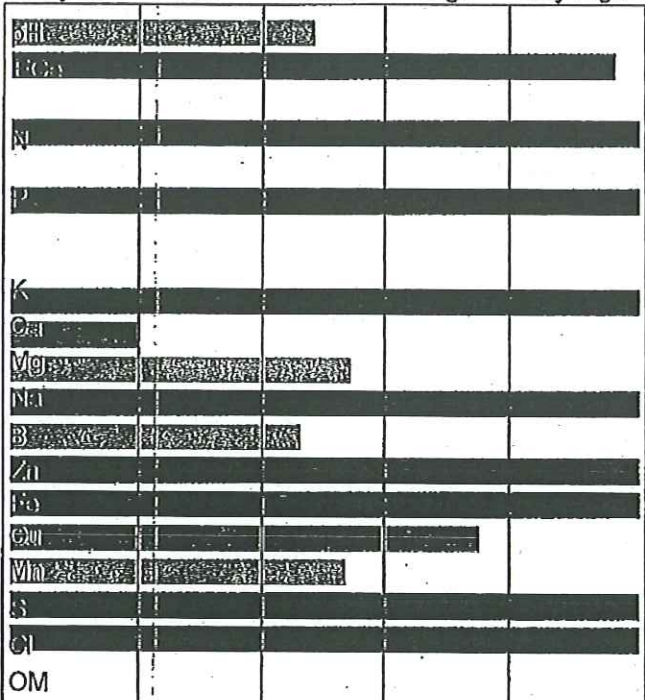
Sample ID: **6-26 SETTLING POND**

G PYKA

## Soil Test Results

pH	6.3	su																																																																										
E.C.e	6.43	m.mhos																																																																										
Soilb. Salts	4.15	ppm																																																																										
NO <sub>3</sub> - Nitrate Nitrogen	340	ppm																																																																										
NH <sub>4</sub> - Ammonium Nitrogen		ppm																																																																										
PO <sub>4</sub> - Olsen Phosphorus	125	ppm																																																																										
PO <sub>4</sub> - Bray Phosphorus		ppm																																																																										
<table border="1"> <thead> <tr> <th></th> <th>Base Saturation %</th> <th>Ammonium Acetate</th> </tr> <tr> <th></th> <th>Yours</th> <th>Optimum</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>16.5</td> <td>2 - 5 %</td> <td>1,050 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>34.9</td> <td>65-80 %</td> <td>1,140 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>20.1</td> <td>10-20 %</td> <td>398 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>11.9</td> <td>0-5 %</td> <td>446 ppm</td> </tr> <tr> <td>B - Boron</td> <td></td> <td></td> <td>0.44 ppm</td> </tr> <tr> <td>Zn - Zinc</td> <td></td> <td></td> <td>64.0 ppm</td> </tr> <tr> <td>Fe - Iron</td> <td></td> <td></td> <td>261.0 ppm</td> </tr> <tr> <td>Cu - Copper</td> <td></td> <td></td> <td>26.0 ppm</td> </tr> <tr> <td>Mn - Manganese</td> <td></td> <td></td> <td>28.0 ppm</td> </tr> <tr> <td>SO<sub>4</sub>- Sulfate Sulfur</td> <td></td> <td></td> <td>445 ppm</td> </tr> <tr> <td>Cl - Chloride</td> <td></td> <td></td> <td>12.6 meq/L</td> </tr> <tr> <td>Organic Matter</td> <td></td> <td></td> <td>%</td> </tr> <tr> <td>Cation Exchange Capacity</td> <td>meq/100 gm</td> <td>16.3 (Est.)</td> <td></td> </tr> <tr> <td>Percolation</td> <td></td> <td>High</td> <td></td> </tr> <tr> <td>Excess Carbonates</td> <td></td> <td>None</td> <td></td> </tr> <tr> <td>Free Lime</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SMP Buffer pH</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Base Saturation %	Ammonium Acetate		Yours	Optimum	K - Potassium	16.5	2 - 5 %	1,050 ppm	Ca - Calcium	34.9	65-80 %	1,140 ppm	Mg - Magnesium	20.1	10-20 %	398 ppm	Na - Sodium	11.9	0-5 %	446 ppm	B - Boron			0.44 ppm	Zn - Zinc			64.0 ppm	Fe - Iron			261.0 ppm	Cu - Copper			26.0 ppm	Mn - Manganese			28.0 ppm	SO <sub>4</sub> - Sulfate Sulfur			445 ppm	Cl - Chloride			12.6 meq/L	Organic Matter			%	Cation Exchange Capacity	meq/100 gm	16.3 (Est.)		Percolation		High		Excess Carbonates		None		Free Lime				SMP Buffer pH			
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## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 778mg/L TN 1.12% MOIST 77% TDS 3340mg/L TOC 1.9%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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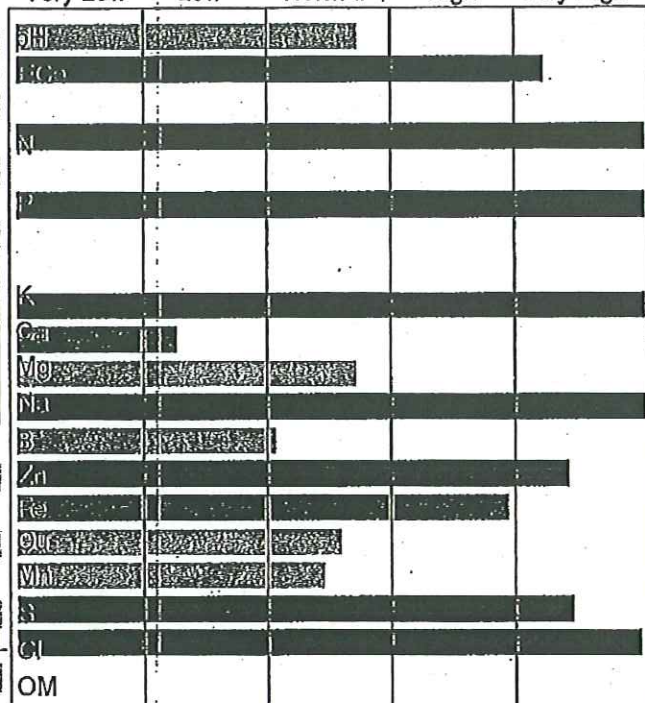
Grower: **G000188**  
 Lab # **S73994903** Variety:  
 Date Received: **7/09/2009** Acres:  
 Date Completed: **7/09/2009** Yield: **1 Tons**  
 Crop: **Fallow**  
 Sample ID: **6-27 SE CORNER**

Submitted By:  
**Dun Environmental Inc**  
 5060 Robert J Matthews Parkway  
 Suite 2  
 El Dorado Hills, CA 95762  
 G PYKA

## Soil Test Results

pH	6.8	soil	
E.C.e	4.29	m.mhos	
Soluble Salts	2.746	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	220	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	118	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium Acetate	
	Yours	Optimum	
K - Potassium	17.1	2 - 5 %	722 ppm
Ca - Calcium	41.1	65-80 %	890 ppm
Mg - Magnesium	19.9	10-20 %	261 ppm
Na - Sodium	12.8	0 - 5 %	318 ppm
B - Boron			0.25 ppm
Zn - Zinc			45.0 ppm
Fe - Iron			174.0 ppm
Cu - Copper			9.6 ppm
Mn - Manganese			20.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			185 ppm
Cl - Chloride			9.8 meq/L
Organic Matter			%
Cation Exchange Capacity	meq/100 gm	10.8	(Est.)
Percolation			High
Excess Carbonates			None
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

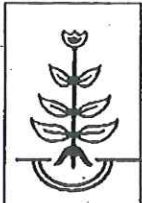
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 627mg/L TN .615% MOIST 56.3% TDS 2300mg/L TOC 2.3%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **G000188**

Lab # S73994904

Date Received: 7/09/2009

Date Completed: 7/09/2009

Crop: Fallow

Sample ID: **6-27 SW CORNER**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Environmental Inc**

5060 Robert J Matthews Parkway

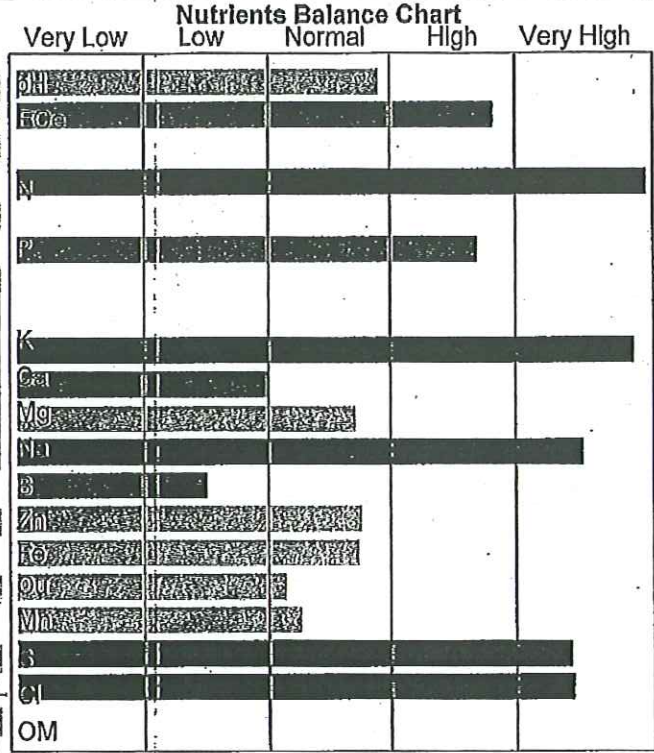
Suite 2

El Dorado Hills, CA 95762

G PYKA

## Soil Test Results

pH	7.1	su																						
E.C.e	3.21	m.mhos																						
Soluble Salts	2,054	ppm																						
NO <sub>3</sub> - Nitrate Nitrogen	287	ppm																						
NH <sub>4</sub> - Ammonium Nitrogen		ppm																						
PO <sub>4</sub> - Olsen Phosphorus	60	ppm																						
PO <sub>4</sub> - Bray Phosphorus		ppm																						
<table border="1"> <thead> <tr> <th></th> <th>Base Saturation %</th> <th>Ammonium Acetate</th> </tr> <tr> <th></th> <th>Yours</th> <th>Optimum</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>14.5</td> <td>2 - 5 %</td> <td>323 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>57.9</td> <td>65-80 %</td> <td>660 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>19.7</td> <td>10-20 %</td> <td>136 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>8.0</td> <td>0 - 5 %</td> <td>104 ppm</td> </tr> </tbody> </table>				Base Saturation %	Ammonium Acetate		Yours	Optimum	K - Potassium	14.5	2 - 5 %	323 ppm	Ca - Calcium	57.9	65-80 %	660 ppm	Mg - Magnesium	19.7	10-20 %	136 ppm	Na - Sodium	8.0	0 - 5 %	104 ppm
	Base Saturation %	Ammonium Acetate																						
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Mg - Magnesium	19.7	10-20 %	136 ppm																					
Na - Sodium	8.0	0 - 5 %	104 ppm																					
B - Boron	0.14	ppm																						
Zn - Zinc	17.0	ppm																						
Fe - Iron	82.0	ppm																						
Cu - Copper	3.7	ppm																						
Mn - Manganese	13.0	ppm																						
SO <sub>4</sub> - Sulfate Sulfur	180	ppm																						
Cl - Chloride	7.1	meq/L																						
Organic Matter		%																						
Cation Exchange Capacity	meq/100 gm	5.7 (Est.)																						
Percolation		High																						
Excess Carbonates		None																						
Free Lime																								
SMP Buffer pH																								



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 179mg/L TN .140% MOIST 27.6% TDS 1710mg/L TOC .6%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **G000188**

Lab # S73994905

Date Received: 7/09/2009

Date Completed: 7/09/2009

Crop: Fallow

Sample ID: **6-29 S CENTRAL**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

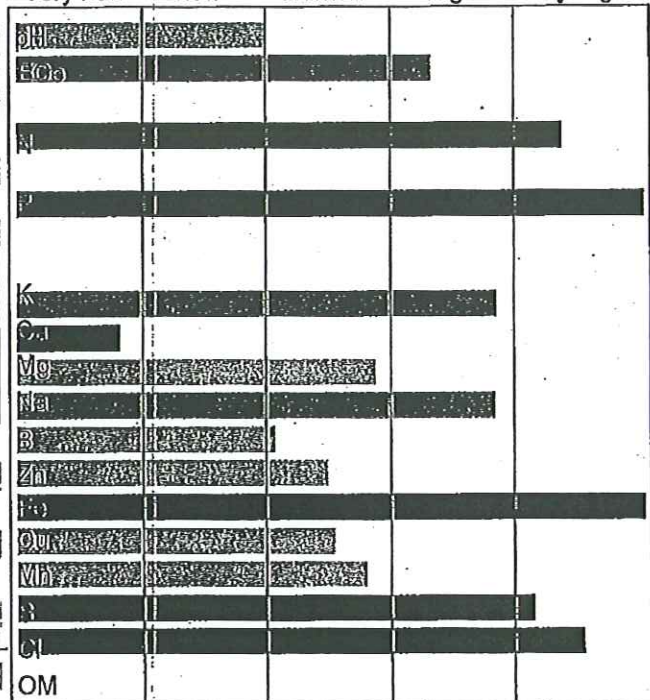
El Dorado Hills, CA 95762

G PYKA

## Soil Test Results

pH	5.6	su	
E.C.e	2.34	m.mhos	
Soluble Salts	1498	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	94	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	118	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium Acetate	
	Yours	Optimum	
K - Potassium	9.5	2 - 5 %	481 ppm
Ca - Calcium	29.2	65-80 %	760 ppm
Mg - Magnesium	22.5	10-20 %	355 ppm
Na - Sodium	5.5	0 - 5 %	165 ppm
B - Boron			0.25 ppm
Zn - Zinc			120 ppm
Fe - Iron			239.0 ppm
Cu - Copper			8.9 ppm
Mn - Manganese			32.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			125 ppm
Cl - Chloride			7.6 meq/L
Organic Matter			%
Cation Exchange Capacity	meq/100 gm		13.0 (Est.)
Percolation			High
Excess Carbonates			None
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	2 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 224mg/L TN .188% MOIST 22.5% TDS 1250mg/L TOC 1.2%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **G000188**

Submitted By:

Lab # **S73994906**

Variety:

**Dunn Enviromental Inc**

Date Received: **7/09/2009**

Acres:

5060 Robert J Matthews Parkway

Date Completed: **7/09/2009**

Yield: **1 Tons**

Suite 2

Crop: **Fallow**

El Dorado Hills, CA 95762

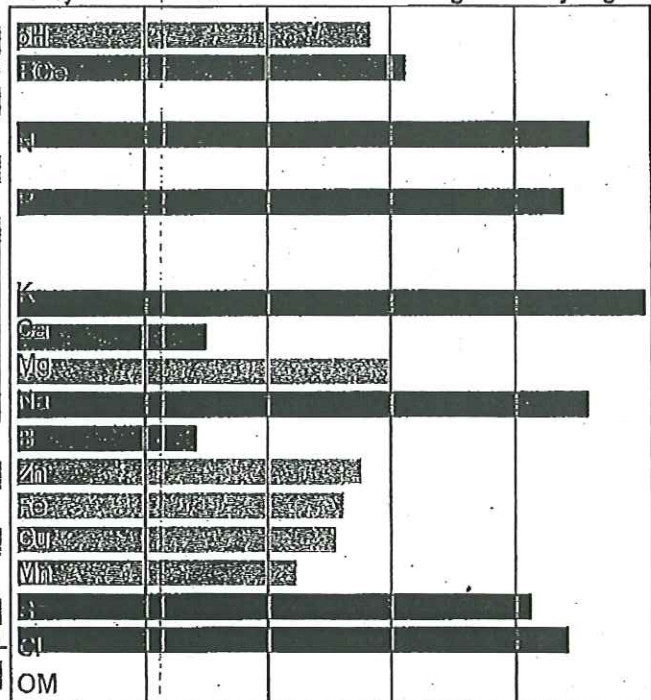
Sample ID: **6-29 WEST SIDE**

**G PYKA**

## Soil Test Results

pH	7.0	su																				
E.C.e	1.98	m.mhos																				
Soluble Salts	15267	ppm																				
NO <sub>3</sub> - Nitrate Nitrogen	102	ppm																				
NH <sub>4</sub> - Ammonium Nitrogen		ppm																				
PO <sub>4</sub> - Olsen Phosphorus	84	ppm																				
PO <sub>4</sub> - Bray Phosphorus		ppm																				
<table border="1"> <thead> <tr> <th></th> <th>Base Saturation % Yours</th> <th>Optimum</th> <th>Ammonium Acetate</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>20.6</td> <td>2 - 5 %</td> <td>554 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>46.4</td> <td>65-80 %</td> <td>640 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>24.9</td> <td>10-20 %</td> <td>208 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>8.2</td> <td>0 - 5 %</td> <td>129 ppm</td> </tr> </tbody> </table>				Base Saturation % Yours	Optimum	Ammonium Acetate	K - Potassium	20.6	2 - 5 %	554 ppm	Ca - Calcium	46.4	65-80 %	640 ppm	Mg - Magnesium	24.9	10-20 %	208 ppm	Na - Sodium	8.2	0 - 5 %	129 ppm
	Base Saturation % Yours	Optimum	Ammonium Acetate																			
K - Potassium	20.6	2 - 5 %	554 ppm																			
Ca - Calcium	46.4	65-80 %	640 ppm																			
Mg - Magnesium	24.9	10-20 %	208 ppm																			
Na - Sodium	8.2	0 - 5 %	129 ppm																			
B - Boron	0.13	ppm																				
Zn - Zinc	17.0	ppm																				
Fe - Iron	70.0	ppm																				
Cu - Copper	9.0	ppm																				
Mn - Manganese	12.0	ppm																				
SO <sub>4</sub> - Sulfate Sulfur	118	ppm																				
Cl - Chloride	6.9	meq/L																				
Organic Matter		%																				
Cation Exchange Capacity	meq/100 gm	6.9 (Est.)																				
Percolation		High																				
Excess Carbonates		None																				
Free Lime																						
SMP Buffer pH																						

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 207mg/L TN .200% MOIST 31.2% TDS 1020mg/L TOC 2.1%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

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Grower: **G000188**

Lab # **S73994907**

Date Received: **7/09/2009**

Date Completed: **7/09/2009**

Crop: **Fallow**

Sample ID: **6-29 SE SIDE**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Dunn Environmental Inc**

5060 Robert J Matthews Parkway

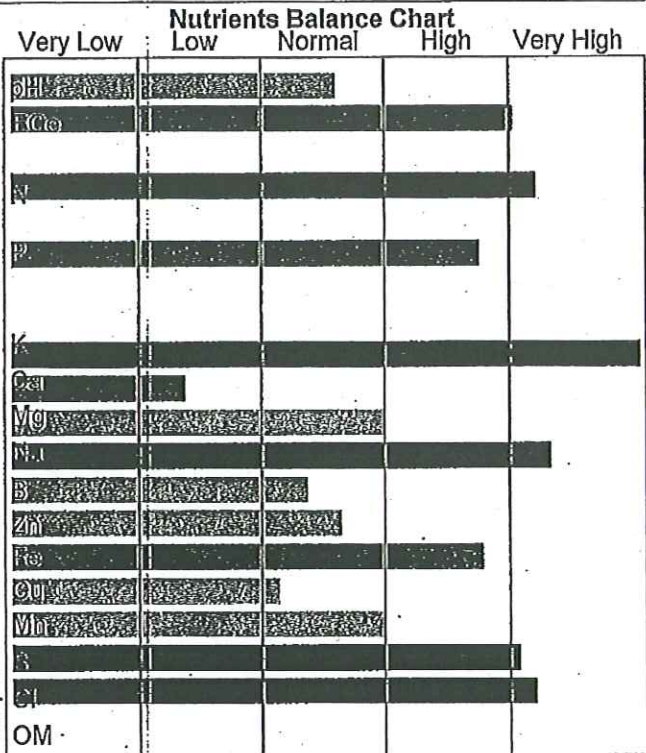
Suite 2

El Dorado Hills, CA 95762

G PYKA

## Soil Test Results

pH	6.6	su																																																																											
E.C.e	3.50	m.mhos																																																																											
Soluble Salts	2,240	ppm																																																																											
NO <sub>3</sub> - Nitrate Nitrogen	87	ppm																																																																											
NH <sub>4</sub> - Ammonium Nitrogen		ppm																																																																											
PO <sub>4</sub> - Olsen Phosphorus	62	ppm																																																																											
PO <sub>4</sub> - Bray Phosphorus		ppm																																																																											
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## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 218mg/L TN .216% MOIST 35% TDS 1810mg/L TOC 1.1%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

**Reviewed/Approved by: JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

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Grower: **G000188**

Lab # S73994908

Date Received: 7/09/2009

Date Completed: 7/09/2009

Crop: Fallow

Sample ID: **6-30 EAST SIDE**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

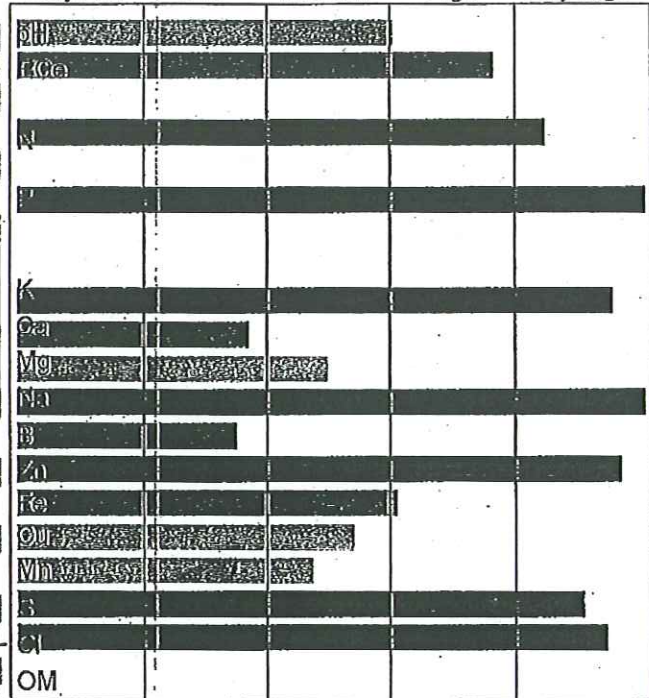
El Dorado Hills, CA 95762

G PYKA

## Soil Test Results

pH	7.3	su																						
E.C.e	3.09	m.mhos																						
Soluble Salts	1078	ppm																						
NO <sub>3</sub> - Nitrate Nitrogen	88	ppm																						
NH <sub>4</sub> - Ammonium Nitrogen		ppm																						
PO <sub>4</sub> - Olsen Phosphorus	124	ppm																						
PO <sub>4</sub> - Bray Phosphorus		ppm																						
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	Base Saturation %	Ammonium Acetate																						
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Na - Sodium	15.7	0-5 %	480 ppm																					
B - Boron	0.17	ppm																						
Zn - Zinc	55.0	ppm																						
Fe - Iron	112.0	ppm																						
Cu - Copper	11.0	ppm																						
Mn - Manganese	17.0	ppm																						
SO <sub>4</sub> - Sulfate Sulfur	200	ppm																						
Cl - Chloride	8.4	meq/L																						
Organic Matter		%																						
Cation Exchange Capacity	meq/100 gm	13.3 (Est.)																						
Percolation		High																						
Excess Carbonates		None																						
Free Lime																								
SMP Buffer pH																								

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 941mg/L TN 1.28% MOIST 72.9% TDS 1620mg/L TOC 3.3%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





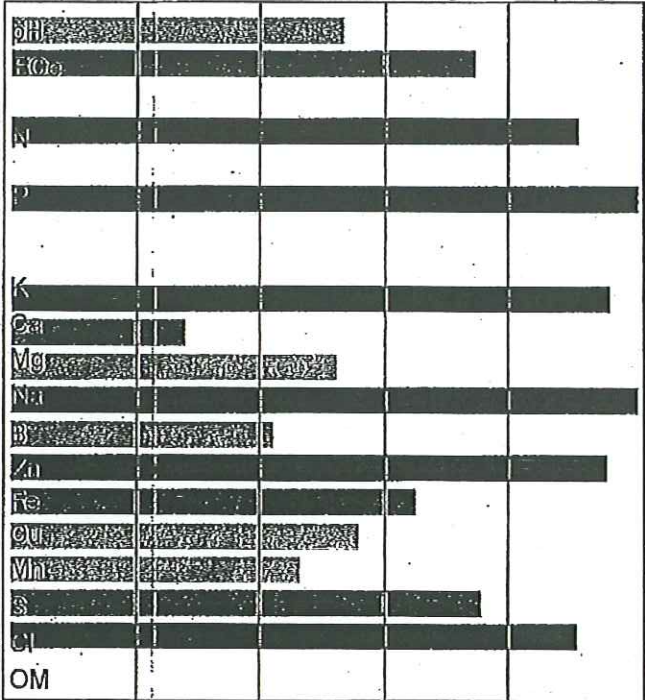
# DENELE ANALYTICAL, INC.

1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com  
 Grower: **G000188** Submitted By: **Dunn Enviromental Inc**  
 Lab # **S73994909** Variety: **5060 Robert J Matthews Parkway**  
 Date Received: **7/09/2009** Acres: **Suite 2**  
 Date Completed: **7/09/2009** Yield: **1 Tons** **EI Dorado Hills, CA 95762**  
 Crop: **Fallow** **G PYKA**  
 Sample ID: **6-30 SOUTH SIDE**

## Soil Test Results

pH	6.7	su	
E.C.e	2.98	m.mhos	
Soluble Salts	1907	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	101	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	119	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium	
	Yours	Acetate	
	Optimum		
K - Potassium	13.9	2 - 5 %	729 ppm
Ca - Calcium	44.2	65-80 %	1190 ppm
Mg - Magnesium	18.2	10-20 %	297 ppm
Na - Sodium	14.6	0 - 5 %	451 ppm
B - Boron			0.28 ppm
Zn - Zinc			54.0 ppm
Fe - Iron			125.0 ppm
Cu - Copper			12.0 ppm
Mn - Manganese			15.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			90 ppm
Cl - Chloride			7.6 meq/L
Organic Matter			%
Cation Exchange Capacity	meq/100 gm	13.4	(Est.)
Percolation		None	
Excess Carbonates		None	
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

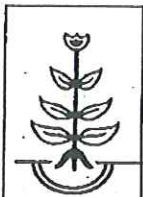
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 711mg/L TN .827% MOIST 68.4% TDS 1540mg/L TOC 2.7%

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

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Grower: **G000188**

Submitted By:

Lab # **S73994910**

Variety:

**Dunn Enviromental Inc**

Date Received: **7/09/2009**

Acres:

5060 Robert J Matthews Parkway

Date Completed: **7/09/2009**

Yield: **1 Tons**

Suite 2

Crop: **Fallow**

El Dorado Hills, CA 95762

Sample ID: **6-26 NW CORNER**

G PYKA

## Soil Test Results

pH	6.3	su
E.C.e	2.92	m.mhos
Soluble Salts	1,869	ppm
NO <sub>3</sub> - Nitrate Nitrogen	116	ppm
NH <sub>4</sub> - Ammonium Nitrogen		ppm
PO <sub>4</sub> - Olsen Phosphorus	122	ppm
PO <sub>4</sub> - Bray Phosphorus		ppm

	Base Saturation %		Ammonium Acetate
	Yours	Optimum	
K - Potassium	13.5	2 - 5 %	661 ppm
Ca - Calcium	37.8	65-80 %	950 ppm
Mg - Magnesium	18.8	10-20 %	286 ppm
Na - Sodium	13.2	0 - 5 %	381 ppm

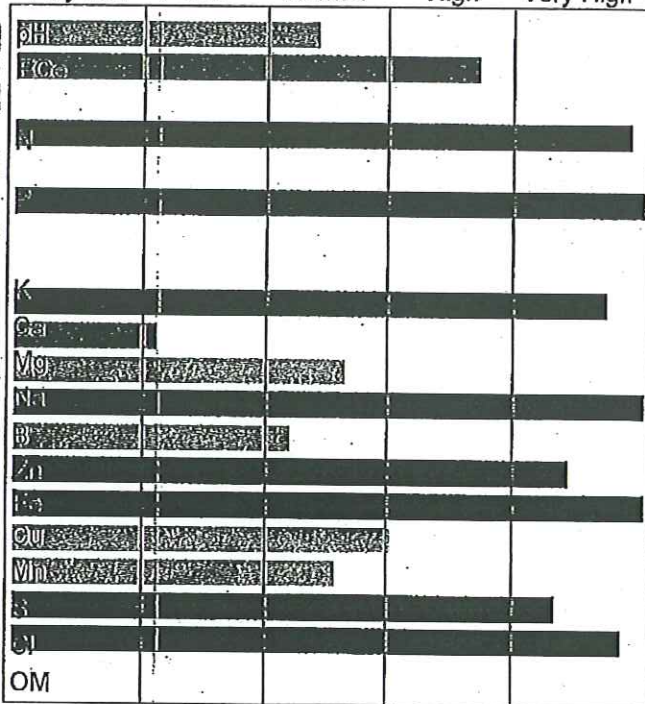
B - Boron	0.35	ppm
Zn - Zinc	45.0	ppm
Fe - Iron	226.0	ppm
Cu - Copper	15.0	ppm
Mn - Manganese	24.0	ppm
SO <sub>4</sub> - Sulfate Sulfur	160	ppm
Cl - Chloride	9.1	meq/L

Organic Matter		%
Cation Exchange Capacity	meq/100 gm	12.5 (Est.)

Percolation	High
Excess Carbonates	None

Free Lime	
SMP Buffer pH	

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

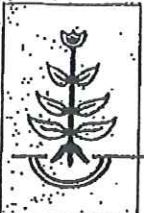
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TKN 616mg/L TN .717% MOIST 62% TDS 1510mg/L TOC 2.8%

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Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **DC CLarifier**

Lab # **S74054601**

Date Received: **8/12/2009**

Date Completed: **8/12/2009**

Crop: **Fallow**

Sample ID: **KM-1 Ag**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Con Agra Foods**

**554 S. Yosemite**

**Oakdale, CA 95361**

**Geoff Pyka**

## Soil Test Results

### Nutrients Balance Chart

	Very Low	Low	Normal	High	Very High
EC					
SO4					
NO3-N					
NH4-N					
PO4-P					
Brom P					
K					
Ca					
Mg					
Na					
B					
Zn					
Fe					
Cu					
Mn					
S					
Cl					
OM					

EC	618	su
EC	2.90	m.mhos
SO4	907	ppm
NO3-N	141	ppm
NH4-N		ppm
PO4-P	125	ppm
Brom P		ppm
Base Saturation %		
	Yours	Optimum
K - Potassium	24.7	2 - 5 %
Ca - Calcium	40.5	65 - 80 %
Mg - Magnesium	22.1	10 - 20 %
Na - Sodium	3.7	10 - 15 %
B - Boron		
Zn - Zinc		
Fe - Iron		
Cu - Copper		
Mn - Manganese		
SO4 Sulfate Sulfur		
Cl - Chloride		
OM		
Cation Exchange Capacity	meq/100 gm	26.8 (Est.)
Percolation		High
Excess Carbonates		None
Residual		
SMP Buffer pH		

### Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

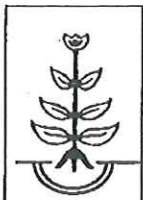
The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

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Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # S74015308

Date Received: 7/22/2009

Date Completed: 7/22/2009

Crop: Fallow

Sample ID: **WP175-Solids**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

El Dorado Hills, CA 95762

J. FOURIE

## Soil Test Results

pH	6.8	su
E.C.e	5.06	m.mhos
Soluble Salts	3,238	ppm
NO <sub>3</sub> - Nitrate Nitrogen	298	ppm
NH <sub>4</sub> - Ammonium Nitrogen		ppm
PO <sub>4</sub> - Olsen Phosphorus	330	ppm
PO <sub>4</sub> - Bray Phosphorus		ppm

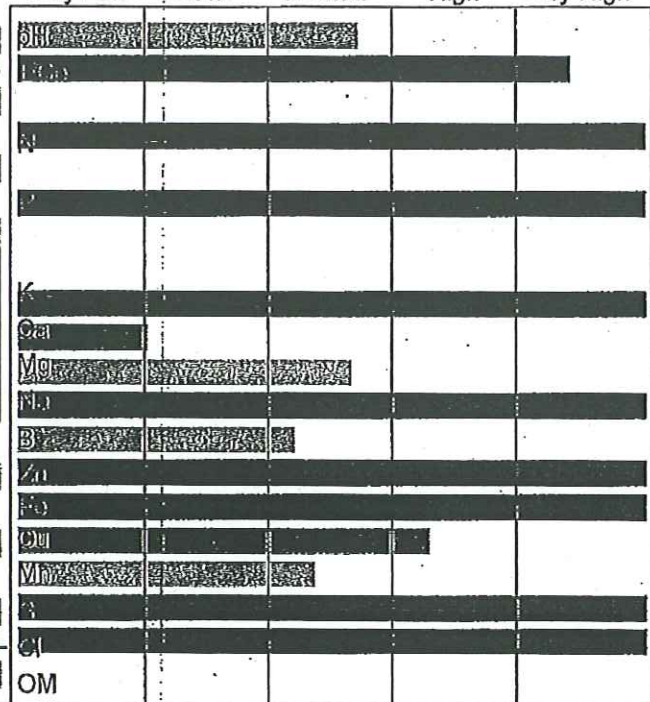
	Base Saturation % Yours	Optimum	Ammonium Acetate
K - Potassium	18.7	2 - 5 %	990 ppm
Ca - Calcium	35.7	65-80 %	970 ppm
Mg - Magnesium	19.3	10-20 %	318 ppm
Na - Sodium	17.3	0-5 %	540 ppm

B - Boron	0.36	ppm
Zn - Zinc	91.0	ppm
Fe - Iron	244.0	ppm
Cu - Copper	19.0	ppm
Mn - Manganese	17.0	ppm
SO <sub>4</sub> - Sulfate Sulfur	326	ppm
Cl - Chloride	13.2	meq/L
Organic Matter		%
Cation Exchange Capacity	meq/100 gm	13.6 (Est.)

Percolation: High  
Excess Carbonates: None

Free Lime:  
SMP Buffer pH:

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 4.3% TN 3.01 FDS 766 MOIST 77.5% TDS 2630 mg/L TKN 8850

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # S74015309

Date Received: 7/22/2009

Date Completed: 7/22/2009

Crop: Fallow

Sample ID: **WP176-Sludge**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2.

El Dorado Hills, CA 95762

J. FOURIE

## Soil Test Results

pH	7.1	su	
E.C.e	7.49	m.mhos	
Soluble Salts	4.794	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	410	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	515	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium Acetate	
	Yours	Optimum	
K - Potassium	22.7	2 - 5 %	2,280 ppm
Ca - Calcium	27.6	65-80 %	1,420 ppm
Mg - Magnesium	20.1	10-20 %	628 ppm
Na - Sodium	29.6	0 - 5 %	1,750 ppm
B - Boron			0.41 ppm
Zn - Zinc			1410 ppm
Fe - Iron			294.0 ppm
Cu - Copper			22.0 ppm
Mn - Manganese			27.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			360 ppm
Cl - Chloride			27.1 meq/L
Organic Matter			%
Cation Exchange Capacity	meq/100 gm	25.7 (Est.)	
Percolation		Low	
Excess Carbonates		None	
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart

	Very Low	Low	Normal	High	Very High
Ca					
Mg					
K					
Na					
B					
Zn					
Fe					
Cu					
Mn					
S					
Cl					
OM					

## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

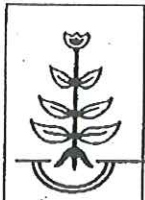
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 4.9% TN .98 FDS 1040 MOIST 96.2% TDS 3760 mg/L TKN 6940

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

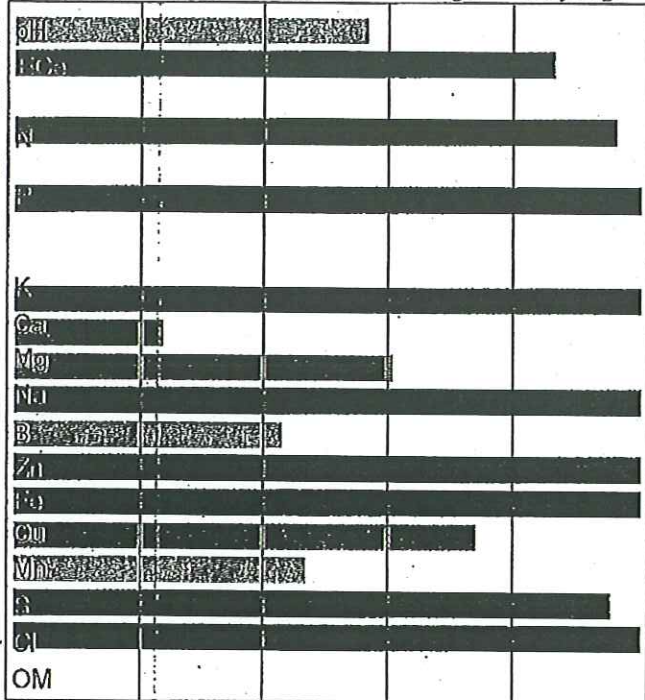
1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com

Grower: **102-19** Submitted By: **Dunn Enviromental Inc**  
 Lab # **S74015310** Variety: **5060 Robert J Matthews Parkway**  
 Date Received: **7/22/2009** Acres: **Suite 2**  
 Date Completed: **7/22/2009** Yield: **1 Tons** **El Dorado Hills, CA 95762**  
 Crop: **Fallow** **J. FOURIE**  
 Sample ID: **WP176-Solids**

## Soil Test Results

pH	7.0	su																						
E.C.e	4.72	m.mhos																						
Soluble Salts	3021	ppm																						
NO <sub>3</sub> - Nitrate Nitrogen	112	ppm																						
NH <sub>4</sub> - Ammonium Nitrogen		ppm																						
PO <sub>4</sub> - Olsen Phosphorus	131	ppm																						
PO <sub>4</sub> - Bray Phosphorus		ppm																						
<table border="1"> <thead> <tr> <th></th> <th>Base Saturation %</th> <th>Ammonium Acetate</th> </tr> <tr> <th></th> <th>Yours</th> <th>Optimum</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>18.8</td> <td>2 - 5 %</td> <td>831 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>39.3</td> <td>65-80 %</td> <td>890 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>25.1</td> <td>10-20 %</td> <td>345 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>16.9</td> <td>0 - 5 %</td> <td>438 ppm</td> </tr> </tbody> </table>				Base Saturation %	Ammonium Acetate		Yours	Optimum	K - Potassium	18.8	2 - 5 %	831 ppm	Ca - Calcium	39.3	65-80 %	890 ppm	Mg - Magnesium	25.1	10-20 %	345 ppm	Na - Sodium	16.9	0 - 5 %	438 ppm
	Base Saturation %	Ammonium Acetate																						
	Yours	Optimum																						
K - Potassium	18.8	2 - 5 %	831 ppm																					
Ca - Calcium	39.3	65-80 %	890 ppm																					
Mg - Magnesium	25.1	10-20 %	345 ppm																					
Na - Sodium	16.9	0 - 5 %	438 ppm																					
B - Boron	0.31	ppm																						
Zn - Zinc	85.0	ppm																						
Fe - Iron	238.0	ppm																						
Cu - Copper	25.0	ppm																						
Mn - Manganese	16.0	ppm																						
SO <sub>4</sub> - Sulfate Sulfur	250	ppm																						
Cl - Chloride	12.2	meq/L																						
Organic Matter		%																						
Cation Exchange Capacity	meq/100 gm	11.3 (Est.)																						
Percolation		High																						
Excess Carbonates		None																						
Free Lime																								
SMP Buffer pH																								

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

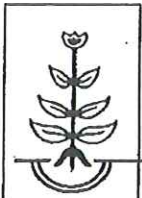
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 3.5% TN 1.18 FDS 617 MOIST 76.7% TDS 2460 mg/L TKN 9460

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # **S74015311**

Date Received: **7/22/2009**

Date Completed: **7/22/2009**

Crop: **Fallow**

Sample ID: **WP178-Solids**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

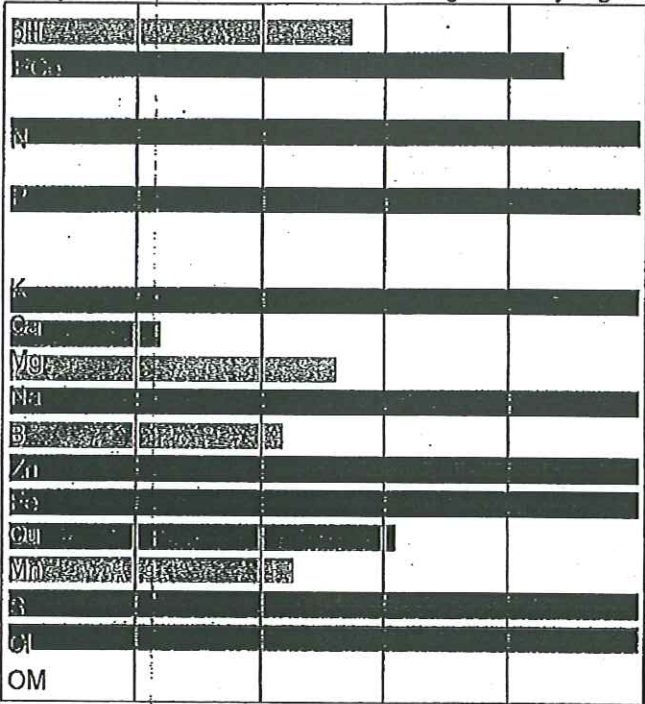
El Dorado Hills, CA 95762

J. FOURIE

## Soil Test Results

pH	6.8	su	
E.C.e	4.89	m.mhos	
Soluble Salts	3.130	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	152	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	128	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %		Ammonium Acetate
	Yours	Optimum	
K - Potassium	16.7	2 - 5 %	832 ppm
Ca - Calcium	39.7	65-80 %	1010 ppm
Mg - Magnesium	18.1	10-20 %	279 ppm
Na - Sodium	16.4	0-5 %	479 ppm
B - Boron			0.33 ppm
Zn - Zinc			86.0 ppm
Fe - Iron			217.0 ppm
Cu - Copper			16.0 ppm
Mn - Manganese			13.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			370 ppm
Cl - Chloride			11.9 meq/L
Organic Matter			%
Cation Exchange Capacity		meq/100 gm	12.7 (Est.)
Percolation			High
Excess Carbonates			None
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 3.7% TN 1.17 FDS 702 MOIST 72.9% TDS 2540 mg/L TKN 7950

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # S74015304

Date Received: 7/22/2009

Date Completed: 7/22/2009

Crop: Fallow

Sample ID: **WP179-Solids**

Variety:

Acres:

Yield: 1 Tons

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

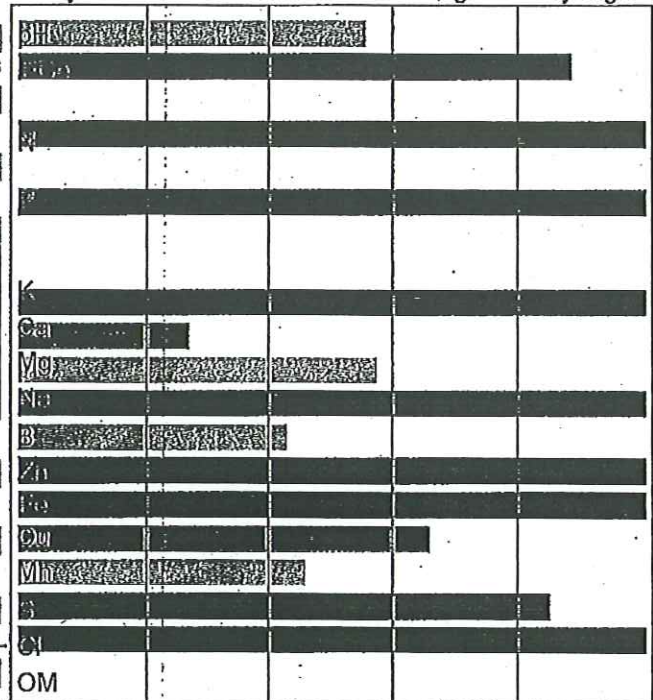
El Dorado Hills, CA 95762

J. FOURIE

## Soil Test Results

pH	6.9	su
E.C.e	5.05	m.mhos
Soluble Salts	3.232	ppm
NO <sub>3</sub> - Nitrate Nitrogen	214	ppm
NH <sub>4</sub> - Ammonium Nitrogen		ppm
PO <sub>4</sub> - Olsen Phosphorus	380	ppm
PO <sub>4</sub> - Bray Phosphorus		ppm
Base Saturation %		
	Yours	Optimum
K - Potassium	17.5	2 - 5 %
Ca - Calcium	43.0	65-80 %
Mg - Magnesium	22.4	10-20 %
Na - Sodium	17.0	0-5 %
		Ammonium Acetate
B - Boron	0.31	ppm
Zn - Zinc	88.0	ppm
Fe - Iron	231.0	ppm
Cu - Copper	19.0	ppm
Mn - Manganese	14.0	ppm
SO <sub>4</sub> - Sulfate Sulfur	145	ppm
Cl - Chloride	14.1	meq/L
Organic Matter		%
Cation Exchange Capacity	meq/100 gm	13.7 (Est.)
Percolation		High
Excess Carbonates		None
Free Lime		
SMP Buffer pH		

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 4.3% TN 1.51 FDS 941 MOIST 79.3% TDS 2650 mg/L TKN 11200

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # **S74015303**

Date Received: **7/22/2009**

Date Completed: **7/22/2009**

Crop: **Fallow**

Sample ID: **WP180-Solids**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Dunn Enviromental Inc.**

**5060 Robert J Matthews Parkway**

**Suite 2**

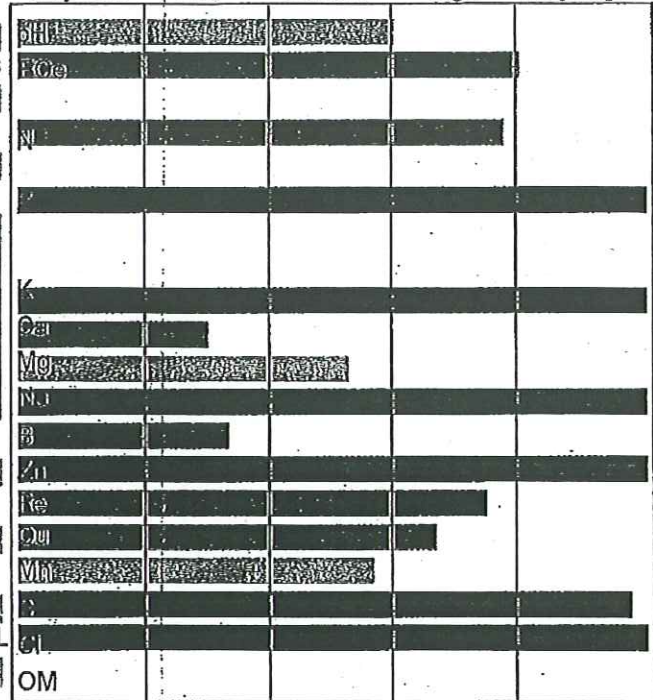
**El Dorado Hills, CA 95762**

**J. FOURIE**

## Soil Test Results

pH	7.3	su	
E.C.e	3.66	m.mhos	
Soluble Salts	2.342	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	76	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	111	ppm	
PO <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium Acetate	
	Yours	Optimum	
K - Potassium	20.6	2 - 5 %	1,050 ppm
Ca - Calcium	46.8	65-80 %	1,220 ppm
Mg - Magnesium	18.8	10-20 %	297 ppm
Na - Sodium	13.8	0 - 5 %	413 ppm
B - Boron			0.16 ppm
Zn - Zinc			61.0 ppm
Fe - Iron			161.0 ppm
Cu - Copper			20.0 ppm
Mn - Manganese			34.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			275 ppm
Cl - Chloride			12.2 meq/L
Organic Matter			%
Cation Exchange Capacity	meq/100 gm	13.0 (Est.)	
Percolation			High
Excess Carbonates			None
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

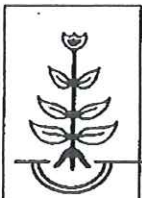
Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 4.2% TN .95 FDS 610 MOIST 43.1% TDS 1880 mg/L TKN 5712

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





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Grower: **102-19**

Lab # **S74015302**

Date Received: **7/22/2009**

Date Completed: **7/22/2009**

Crop: **Fallow**

Sample ID: **WP181-Solids**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

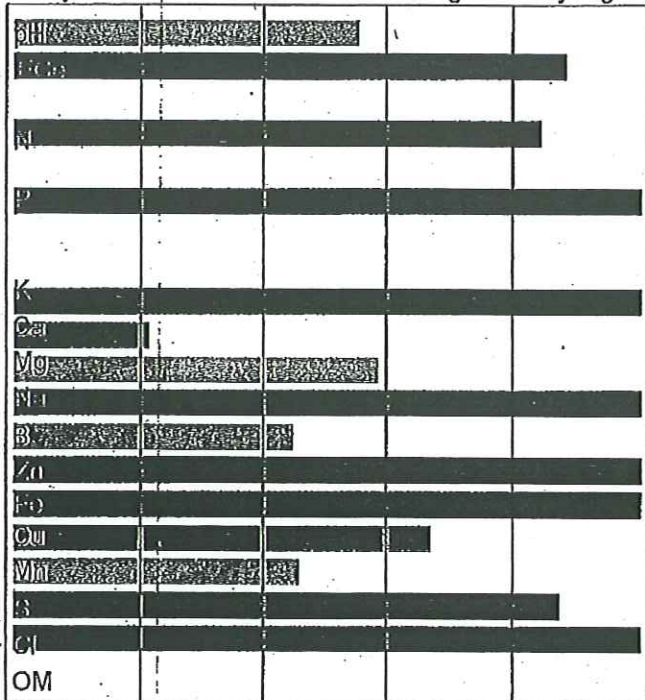
El Dorado Hills, CA 95762

J. FOURIE

## Soil Test Results

pH			6.9	su
E.C.e			4.86	m.mhos
Soluble Salts			3.110	ppm
NO <sub>3</sub> - Nitrate Nitrogen			88	ppm
NH <sub>4</sub> - Ammonium Nitrogen				ppm
PO <sub>4</sub> - Olsen Phosphorus			128	ppm
PO <sub>4</sub> - Bray Phosphorus				ppm
	Base Saturation %		Ammonium	
	Yours	Optimum	Acetate	
K - Potassium	22.1	2 - 5 %	1,020	ppm
Ca - Calcium	36.8	65-80 %	870	ppm
Mg - Magnesium	23.4	10-20 %	336	ppm
Na - Sodium	17.7	0 - 5 %	481	ppm
B - Boron			0.38	ppm
Zn - Zinc			78.0	ppm
Fe - Iron			254.0	ppm
Cu - Copper			20.0	ppm
Mn - Manganese			14.0	ppm
SO <sub>4</sub> - Sulfate Sulfur			170	ppm
Cl - Chloride			12.9	meq/L
Organic Matter				%
Cation Exchange Capacity	meq/100 gm		11.8	(Est.)
Percolation				High
Excess Carbonates				None
Free Lime				
SMP Buffer pH				

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 3.6% TN 1.04 FDS 490 MOIST 74% TDS 2550 mg/L TKN 9464

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





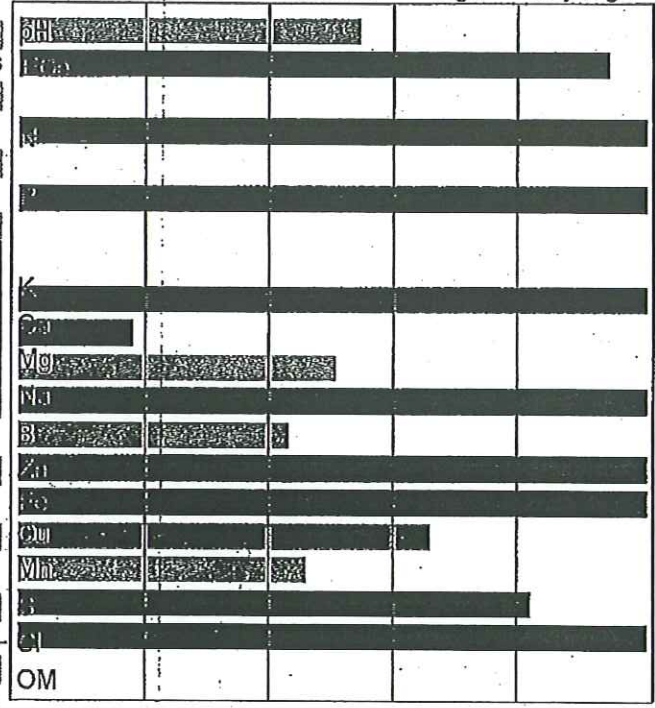
# DENELE ANALYTICAL, INC.

Grower: **102-19** 1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com  
 Lab # S74015301 Variety: **Dunn Enviromental Inc**  
 Date Received: 7/22/2009 Acres: 5060 Robert J Matthews Parkway  
 Date Completed: 7/22/2009 Yield: 1 Tons Suite 2  
 Crop: Fallow El Dorado Hills, CA 95762  
 Sample ID: **WP182-Solids** J. FOURIE

## Soil Test Results

pH	6.8			su
E.C.e	5.80			m.mhos
Soluble Salts	3,712			ppm
NO <sub>3</sub> - Nitrate Nitrogen	161			ppm
NH <sub>4</sub> - Ammonium Nitrogen				ppm
PO <sub>4</sub> - Olsen Phosphorus	345			ppm
PO <sub>4</sub> - Bray Phosphorus				ppm
	Base Saturation %		Ammonium	
	Yours	Optimum	Acetate	
K - Potassium	19.5	2 - 5 %	1,230	ppm
Ca - Calcium	31.9	65-80 %	1,030	ppm
Mg - Magnesium	16.8	10-20 %	330	ppm
Na - Sodium	22.7	0-5 %	840	ppm
B - Boron	0.32			ppm
Zn - Zinc	86.0			ppm
Fe - Iron	249.0			ppm
Cu - Copper	19.0			ppm
Mn - Manganese	14.0			ppm
SO <sub>4</sub> - Sulfate Sulfur	115			ppm
Cl - Chloride	15.1			meq/L
Organic Matter				%
Cation Exchange Capacity	meq/100 gm	16.1	(Est.)	
Percolation	High			
Excess Carbonates	None			
Free Lime				
SMP Buffer pH				

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

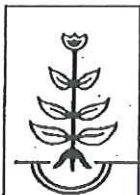
The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.  
 Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

TOC 4.2% TN 1.23 FDS 876 MOIST 84.8% TDS 3070 mg/L TKN 11704

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

**Reviewed/Approved by: JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com

Grower: **102-19**  
Lab # **S74017103**

Variety:

Date Received: **7/22/2009**

Acres:

Date Completed: **7/22/2009**

Yield: **1 Tons**

Crop: **Fallow**

Sample ID: **WP183 SOLIDS**

Submitted By:

**Dunn Environmental Inc**

5060 Robert J Matthews Parkway

Suite 2

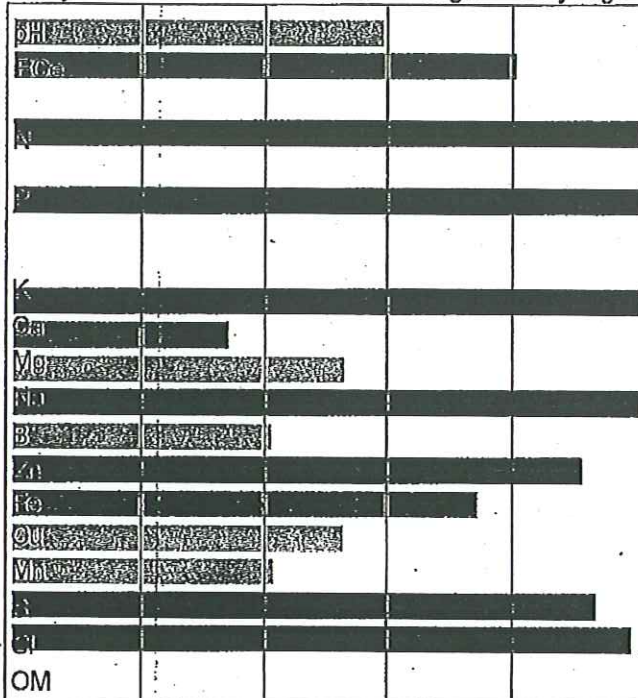
El Dorado Hills, CA 95762

MAX MARCHOL

## Soil Test Results

pH	7.2	su																						
E.C.e	3.53	m.mhos																						
Soluble Salts	2,259	ppm																						
NO <sub>3</sub> - Nitrate Nitrogen	155	ppm																						
NH <sub>4</sub> - Ammonium Nitrogen		ppm																						
PO <sub>4</sub> - Olsen Phosphorus	118	ppm																						
PO <sub>4</sub> - Bray Phosphorus		ppm																						
<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Base Saturation %</th> <th rowspan="2">Ammonium Acetate</th> </tr> <tr> <th>Yours</th> <th>Optimum</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>17.5</td> <td>2 - 5 %</td> <td>567 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>51.2</td> <td>65-80 %</td> <td>850 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>18.8</td> <td>10-20 %</td> <td>189 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>12.6</td> <td>0-5 %</td> <td>240 ppm</td> </tr> </tbody> </table>				Base Saturation %		Ammonium Acetate	Yours	Optimum	K - Potassium	17.5	2 - 5 %	567 ppm	Ca - Calcium	51.2	65-80 %	850 ppm	Mg - Magnesium	18.8	10-20 %	189 ppm	Na - Sodium	12.6	0-5 %	240 ppm
	Base Saturation %			Ammonium Acetate																				
	Yours	Optimum																						
K - Potassium	17.5	2 - 5 %	567 ppm																					
Ca - Calcium	51.2	65-80 %	850 ppm																					
Mg - Magnesium	18.8	10-20 %	189 ppm																					
Na - Sodium	12.6	0-5 %	240 ppm																					
B - Boron	0.23	ppm																						
Zn - Zinc	48.0	ppm																						
Fe - Iron	158.0	ppm																						
Cu - Copper	10.0	ppm																						
Mn - Manganese	6.3	ppm																						
SO <sub>4</sub> - Sulfate Sulfur	225	ppm																						
Cl - Chloride	9.6	meq/L																						
Organic Matter		%																						
Cation Exchange Capacity	meq/100 gm	8.3 (Est.)																						
Percolation		High																						
Excess Carbonates		None																						
Free Lime																								
SMP Buffer pH																								

## Nutrients Balance Chart



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

FDS 326 TN .72 MOIST 62.3% TDS 1810 mg/L TOC 2.6% TKN 5090

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

Grower: **102-19** 1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com

Lab # **S74017102**

Variety:

Submitted By:

**Dunn Enviromental Inc**

Date Received: **7/22/2009**

Acres:

5060 Robert J Matthews Parkway

Date Completed: **7/22/2009**

Yield: **1 Tons**

Suite 2

Crop: **Fallow**

El Dorado Hills, CA 95762

Sample ID: **WP183 SLUDGE**

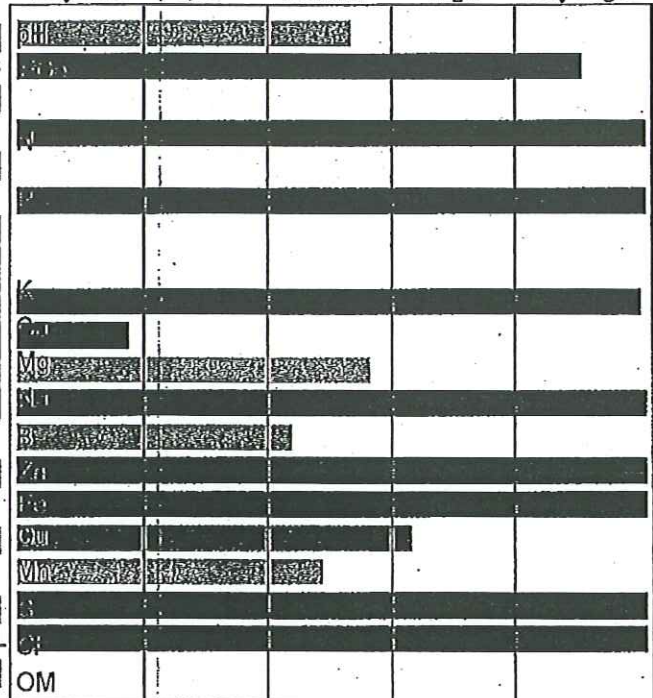
MAX MARCHOL

## Soil Test Results

pH	6.7	su																						
E.C.e	5.20	m.mhos																						
Soluble Salts	3328	ppm																						
NO <sub>3</sub> - Nitrate Nitrogen	276	ppm																						
NH <sub>4</sub> - Ammonium Nitrogen		ppm																						
PO <sub>4</sub> - Olsen Phosphorus	415	ppm																						
PO <sub>4</sub> - Bray Phosphorus		ppm																						
<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Base Saturation %</th> <th rowspan="2">Ammonium Acetate</th> </tr> <tr> <th>Yours</th> <th>Optimum</th> </tr> </thead> <tbody> <tr> <td>K - Potassium</td> <td>14.8</td> <td>2 - 5 %</td> <td>907 ppm</td> </tr> <tr> <td>Ca - Calcium</td> <td>31.2</td> <td>65-80 %</td> <td>980 ppm</td> </tr> <tr> <td>Mg - Magnesium</td> <td>21.6</td> <td>10-20 %</td> <td>411 ppm</td> </tr> <tr> <td>Na - Sodium</td> <td>23.3</td> <td>0 - 5 %</td> <td>840 ppm</td> </tr> </tbody> </table>				Base Saturation %		Ammonium Acetate	Yours	Optimum	K - Potassium	14.8	2 - 5 %	907 ppm	Ca - Calcium	31.2	65-80 %	980 ppm	Mg - Magnesium	21.6	10-20 %	411 ppm	Na - Sodium	23.3	0 - 5 %	840 ppm
	Base Saturation %			Ammonium Acetate																				
	Yours	Optimum																						
K - Potassium	14.8	2 - 5 %	907 ppm																					
Ca - Calcium	31.2	65-80 %	980 ppm																					
Mg - Magnesium	21.6	10-20 %	411 ppm																					
Na - Sodium	23.3	0 - 5 %	840 ppm																					
B - Boron	0.34	ppm																						
Zn - Zinc	67.0	ppm																						
Fe - Iron	238.0	ppm																						
Cu - Copper	17.0	ppm																						
Mn - Manganese	19.0	ppm																						
SO <sub>4</sub> - Sulfate Sulfur	500	ppm																						
Cl - Chloride	15.1	meq/L																						
Organic Matter		%																						
Cation Exchange Capacity	meq/100 gm	15.7 (Est.)																						
Percolation		High																						
Excess Carbonates		None																						
Free Lime																								
SMP Buffer pH																								

## Nutrients Balance Chart

Very Low    Low    Normal    High    Very High



## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

FDS 581 TN 1.38 MOIST 85.7% TDS 2730 mg/L TOC 3.7% TKN 8740

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**





# DENELE ANALYTICAL, INC.

1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelabs.com

Grower: **102-19**

Lab # **S74017101**

Date Received: **7/22/2009**

Date Completed: **7/22/2009**

Crop: **Fallow**

Sample ID: **WP187**

Variety:

Acres:

Yield: **1 Tons**

Submitted By:

**Dunn Enviromental Inc**

5060 Robert J Matthews Parkway

Suite 2

El Dorado Hills, CA 95762

**MAX MARCHOL**

## Soil Test Results

pH	6.7	su	
E.C.e	4.73	m.mhos	
Soluble Salts	3,027	ppm	
NO <sub>3</sub> - Nitrate Nitrogen	189	ppm	
NH <sub>4</sub> - Ammonium Nitrogen		ppm	
PO <sub>4</sub> - Olsen Phosphorus	128	ppm	
P.O. <sub>4</sub> - Bray Phosphorus		ppm	
	Base Saturation %	Ammonium Acetate	
	Yours	Optimum	
K - Potassium	18.7	2 - 5 %	1,010 ppm
Ca - Calcium	33.5	65-80 %	930 ppm
Mg - Magnesium	19.6	10-20 %	330 ppm
Na - Sodium	19.1	0-5 %	606 ppm
B - Boron			0.38 ppm
Zn - Zinc			72.0 ppm
Fe - Iron			206.0 ppm
Cu - Copper			12.0 ppm
Mn - Manganese			13.0 ppm
SO <sub>4</sub> - Sulfate Sulfur			280 ppm
Cl - Chloride			13.9 meq/L
Organic Matter			%
Cation Exchange Capacity		meq/100 gm	13.8 (Est.)
Percolation			High
Excess Carbonates			None
Free Lime			
SMP Buffer pH			

## Nutrients Balance Chart

	Very Low	Low	Normal	High	Very High
pH					
E.C.e					
Soluble Salts					
NO <sub>3</sub> - Nitrate Nitrogen					
NH <sub>4</sub> - Ammonium Nitrogen					
PO <sub>4</sub> - Olsen Phosphorus					
P.O. <sub>4</sub> - Bray Phosphorus					
K - Potassium					
Ca - Calcium					
Mg - Magnesium					
Na - Sodium					
B - Boron					
Zn - Zinc					
Fe - Iron					
Cu - Copper					
Mn - Manganese					
SO <sub>4</sub> - Sulfate Sulfur					
Cl - Chloride					
Organic Matter					
OM					

## Fertilizer Recommendations

N	0 lbs/Acre	S	0 lbs/Acre
P	0 lbs/Acre	B	0 lbs/Acre
K	0 lbs/Acre	Zn	0 lbs/Acre
Cu	0 lbs/Acre	Mn	0 lbs/Acre
Lime	0 Tons/Acre	Gypsum	0 Tons/Acre

### Notes:

The micronutrients recommended are in lbs/acre on a broadcast elemental basis. If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by 4.

Research has shown that optimum yields are obtained with Nitrogen split into 2 to 4 applications. Recommended Nitrogen is based on 90% efficiency of application. Highest losses of Nitrogen occur with winter applications. Early Spring to late Summer is the optimum time to apply Nitrogen.

FDS 564 TN 1.27 MOIST 79.3% TDS 2480 mg/L TOC 3.7% TKN 10080

Every effort is taken to provide an accurate analysis of the sample provided. For reasonable cause a sample can be retested, but due to factors beyond our control in sampling procedures and the inherent variability of soil, our liability is limited to the price of the tests. Recommendations are to be used as general guides and should be modified for specific field conditions and application methods.

Reviewed/Approved by: **JOSHUA HUOT**

# argon laboratories

13 August 2009

Geoff Ryka  
ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

RE: ConAgra Oakdale Project Data

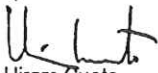
Enclosed are the results for sample(s) received on 08/06/09 15:30 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,



Hiram Cueto  
Lab Manager



Chain of Custody

ARKSON LAB

Project No.		Project Name:		Page 1 of 1		Report To	
Sampler (Signature) Gail RKA		(Print) Gail RKA		Preservative		Gail RKA 554 S. YORK ST ARKANSAS, LA 75361	
Sample Identification Number	Date	Time	Water	Soil	Other	Sampling Location	No. of Containers
RM-1	8/6	12:45		x		DC Arkansas	1
				* Complete soil Package - Agricultural			
				Additional Tests			
				CAM 17 Metals			
				Moisture			
				X			
				X			
				Remarks:			
				* CEC, NO3, Carbonate, pH, Soluble Salts, Ca			
				Mg, Na, SAR, Av. P, Ex. K, B, Zn, Mn			
				**Na%, Moisture, TOC, Total N, Buffer pH,			
				TDS, Chloride, FDS, TKN			
				Quote JM062209DN			
				Denote for the Inorganics.			
				Argon for Metals			
				Copy to...			
Relinquished By: (Signature) Gail RKA		Date/Time 8/6 1 <sup>st</sup> PM		Received By: (Signature)		Date/Time	
Relinquished By: (Signature)		Date/Time		Received By: (Signature)		Date/Time	
Company		Company		Company		Company	

# Argon Laboratories Sample Receipt Checklist

Client Name: ConAgra Oakdale Date & Time Received: 08/06/09 15:30  
 Project Name: ConAgra Oakdale Client Project Number: \*\*\*  
 Received By: M.G. Matrix: Water  Soil  Sludge   
 Sample Carrier: Client  Laboratory  Fed Ex  UPS  Other   
 Argon Labs Project Number: J908016

Shipper Container in good condition?	N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Samples received in proper containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
				Samples received intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples received under refrigeration?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Sufficient sample volume for requested tests?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of Custody signed by all parties?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Do samples contain proper preservative?	N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Chain of Custody matches all sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Do VOA vials contain zero headspace?	(None submitted <input checked="" type="checkbox"/> ) Yes <input type="checkbox"/> No <input type="checkbox"/>	

-----  
**ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW**  
 -----

Date Client Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_  
 Contacted By: \_\_\_\_\_ Subject: \_\_\_\_\_

Comments:

Action Taken:

-----  
**ADDITIONAL TEST(S) REQUEST / OTHER**  
 -----

Contacted By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Call Received By: \_\_\_\_\_

Comments:







ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RM-1	J908016-01	Sludge	08/06/09 12:45	08/06/09 15:30

---

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

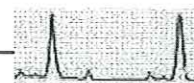
**ANALYSIS REPORT**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
RM-1 (J908016-01) Sludge Sampled: 06-Aug-09 12:45 Received: 06-Aug-09 15:30							
% Moisture	85.7	0.1	% by Weight	1	07-Aug-09	ASTM D2216-92	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359





ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
<b>RM-1 (J908016-01) Sludge</b> Sampled: 06-Aug-09 12:45 Received: 06-Aug-09 15:30							
Antimony	ND	2.0	mg/kg	1	11-Aug-09	EPA 6020A	
Arsenic	ND	1.0	"	"	"	"	
<b>Barium</b>	24	5.0	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
<b>Chromium</b>	7.0	1.0	"	"	"	"	
Cobalt	ND	1.0	"	"	"	"	
<b>Copper</b>	3.6	2.0	"	"	"	"	
Lead	ND	1.0	"	"	"	"	
Mercury	ND	0.1	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	
<b>Nickel</b>	7.8	1.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
<b>Vanadium</b>	6.2	1.0	"	"	"	"	
Zinc	9.6	5.0	"	"	"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

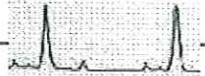
**Organochlorine Pesticides by GC-ECD EPA Method: 8081B**

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
RM-1 (J908016-01) Sludge Sampled: 06-Aug-09 12:45 Received: 06-Aug-09 15:30							A-01
Aldrin	ND	0.50	mg/kg	500	21-Aug-09	EPA 8081B	
alpha-BHC	ND	0.50	"	"	"	"	
beta-BHC	ND	0.50	"	"	"	"	
delta-BHC	ND	0.50	"	"	"	"	
gamma-BHC (Lindane)	ND	0.50	"	"	"	"	
Chlordane (tech)	ND	12	"	"	"	"	
alpha-Chlordane	ND	0.50	"	"	"	"	
gamma-Chlordane	ND	0.50	"	"	"	"	
4,4'-DDD	ND	0.50	"	"	"	"	
4,4'-DDE	ND	0.50	"	"	"	"	
4,4'-DDT	ND	0.50	"	"	"	"	
Dieldrin	ND	0.50	"	"	"	"	
Endosulfan I	ND	0.50	"	"	"	"	
Endosulfan II	ND	0.50	"	"	"	"	
Endosulfan sulfate	ND	0.50	"	"	"	"	
Endrin	ND	0.50	"	"	"	"	
Endrin aldehyde	ND	0.50	"	"	"	"	
Heptachlor	ND	0.50	"	"	"	"	
Heptachlor epoxide	ND	0.50	"	"	"	"	
Methoxychlor	ND	0.50	"	"	"	"	
Toxaphene	ND	25	"	"	"	"	
Surr. Rec.:		91 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359





ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**ANALYSIS REPORT - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	-------------	-----	-----------	-------

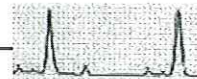
**Batch J901510 - General Prep**

**Duplicate (J901510-DUP1)** Source: J908016-01 Prepared & Analyzed: 08/07/09

% Moisture	85.7	0.1	% by Weight		85.7			0	20	
------------	------	-----	-------------	--	------	--	--	---	----	--

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**Metals - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch J901538 - EPA 3050B**

**Blank (J901538-BLK1)**

Prepared: 08/07/09 Analyzed: 08/11/09

Antimony	ND	2.0	mg/kg							
Arsenic	ND	1.0	"							
Barium	ND	5.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	1.0	"							
Chromium	ND	1.0	"							
Cobalt	ND	1.0	"							
Copper	ND	2.0	"							
Lead	ND	1.0	"							
Mercury	ND	0.1	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Selenium	ND	1.0	"							
Silver	ND	1.0	"							
Thallium	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	5.0	"							

**LCS (J901538-BS1)**

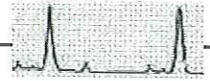
Prepared: 08/07/09 Analyzed: 08/11/09

Antimony	10.0		mg/kg	10		100	80-120			
Arsenic	10.6		"	10		106	80-120			
Barium	95.0		"	100		95	80-120			
Beryllium	11.3		"	10		113	80-120			
Cadmium	10.6		"	10		106	80-120			
Chromium	11.8		"	10		118	80-120			
Cobalt	11.1		"	10		111	80-120			
Copper	10.7		"	10		107	80-120			
Lead	10.5		"	10		105	80-120			
Mercury	0.48		"	0.50		97	80-120			
Molybdenum	10.2		"	10		102	80-120			
Nickel	11.1		"	10		111	80-120			
Selenium	10.8		"	10		108	80-120			
Silver	10.2		"	10		102	80-120			
Thallium	10.1		"	10		101	80-120			
Vanadium	11.6		"	10		116	80-120			
Zinc	110		"	100		110	80-120			

Approved By

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ConAgra Foods Inc. 554 S. Yosemite Ave. Oakdale, CA 95361	Project Number: [none] Project Name: ConAgra Oakdale Project Manager: Geoff Ryka	Work Order No.: J908016
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**Metals - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901538 - EPA 3050B**

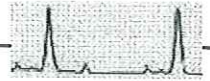
**LCS Dup (J901538-BSD1)**

Prepared: 08/07/09 Analyzed: 08/11/09

Antimony	9.50		mg/kg	10		95	80-120	5	20	
Arsenic	10.2		"	10		102	80-120	4	20	
Barium	90.0		"	100		90	80-120	5	20	
Beryllium	10.7		"	10		107	80-120	5	20	
Cadmium	10.0		"	10		100	80-120	6	20	
Chromium	11.1		"	10		111	80-120	6	20	
Cobalt	10.5		"	10		105	80-120	6	20	
Copper	10.0		"	10		100	80-120	7	20	
Lead	9.90		"	10		99	80-120	6	20	
Mercury	0.46		"	0.50		91	80-120	6	20	
Molybdenum	9.80		"	10		98	80-120	4	20	
Nickel	10.5		"	10		105	80-120	6	20	
Selenium	10.7		"	10		107	80-120	0.9	20	
Silver	9.70		"	10		97	80-120	5	20	
Thallium	9.60		"	10		96	80-120	5	20	
Vanadium	11.0		"	10		110	80-120	5	20	
Zinc	104		"	100		104	80-120	6	20	

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ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**Organochlorine Pesticides by GC-ECD EPA Method: 8081B - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901921 - EPA 3550B**

**Blank (J901921-BLK1)**

Prepared: 08/20/09 Analyzed: 08/21/09

Surrogate: %SSI	0.103		mg/kg	0.10		103	60-140
Aldrin	ND	0.001	"				
alpha-BHC	ND	0.001	"				
beta-BHC	ND	0.001	"				
delta-BHC	ND	0.001	"				
gamma-BHC (Lindane)	ND	0.001	"				
Chlordane (tech)	ND	0.025	"				
alpha-Chlordane	ND	0.001	"				
gamma-Chlordane	ND	0.001	"				
4,4'-DDD	ND	0.001	"				
4,4'-DDE	ND	0.001	"				
4,4'-DDT	ND	0.001	"				
Dieldrin	ND	0.001	"				
Endosulfan I	ND	0.001	"				
Endosulfan II	ND	0.001	"				
Endosulfan sulfate	ND	0.001	"				
Endrin	ND	0.001	"				
Endrin aldehyde	ND	0.001	"				
Heptachlor	ND	0.001	"				
Heptachlor epoxide	ND	0.001	"				
Methoxychlor	ND	0.001	"				
Toxaphene	ND	0.050	"				

**LCS (J901921-BS1)**

Prepared: 08/20/09 Analyzed: 08/21/09

Aldrin	0.0078		mg/kg	0.010		78	70-130
gamma-BHC (Lindane)	0.0082		"	0.010		82	70-130
4,4'-DDT	0.0222		"	0.025		89	70-130
Dieldrin	0.0215		"	0.025		86	70-130
Endrin	0.0225		"	0.025		90	70-130
Heptachlor	0.0091		"	0.010		91	70-130

**LCS Dup (J901921-BSD1)**

Prepared: 08/20/09 Analyzed: 08/21/09

Aldrin	0.0075		mg/kg	0.010		75	70-130	4	20
gamma-BHC (Lindane)	0.0080		"	0.010		80	70-130	2	20
4,4'-DDT	0.0205		"	0.025		82	70-130	8	20
Dieldrin	0.0202		"	0.025		81	70-130	6	20
Endrin	0.0210		"	0.025		84	70-130	7	20

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ConAgra Foods Inc.  
554 S. Yosemite Ave.  
Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**Organochlorine Pesticides by GC-ECD EPA Method: 8081B - Quality Control**

**Argon Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch J901921 - EPA 3550B**

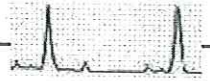
**LCS Dup (J901921-BSD1)**

Prepared: 08/20/09 Analyzed: 08/21/09

Heptachlor	0.0088		mg/kg	0.010		88	70-130	3	20	
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ConAgra Foods Inc.  
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Oakdale, CA 95361

Project Number: [none]  
Project Name: ConAgra Oakdale  
Project Manager: Geoff Ryka

Work Order No.:  
J908016

**Notes and Definitions**

- A-01 Sample diluted due to high organic content.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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