

EXHIBIT NUMBER: STC-006

File Name: St. Claude

Date: MARCH 14/07

Received by: \_\_\_\_\_  
(Commission Secretary)

## Manitoba Clean Environment Commission

### Hog Production Industry Review

Presentation by:  
Brad Schnell  
Agri-Trend

## James Valley Colony Manure Nutrient Management Plan

- Crop planning
- File manure nutrient management plan
- GPS soil testing
- Submit Schedule E : crop plan / soil test
- Manure analysis and application
- Field programmer
- Livestock analyzer

# Crop Plan

Client: JAMES VALLEY COLONY LTD  
 Year: 2007  
 Field: \_\_\_\_\_

**The Field Profiler™**  
 Agr-Coach: Brad Scheel,  
 Phone: (204) 736-2245

2007 Field Profile

Field ID	Field Name	Legal Desc.	Acres	Intended Crop	Target Yield	2006 Crop	2005 Crop
17501	1 BELLSLE	SE 16-10-3-W1	150 N	Oats	140 bu/ac	Canola	Barley
17502	2 BONHOMME	W 11-10-3-W1	315 N	Canola	55 bu/ac	Wheat	Barley
17503	3 BUO	NW 9-10-3-W1	160 N	Barley	100 bu/ac	Soybeans	Oats
17504	4 CORNER	SW 24-10-3-W1	132 N	Wheat - Winter	90 bu/ac	Canola	Wheat
17505	5 DACOTAH	23-10-2-W1	550 N	Barley	100 bu/ac	Canola	Oats
17506	6 SOUTH DUMP	SW 33-10-2-W	272 N				
17507	7 ERNIE	NE 3-10-3-W1	140 N	Barley	100 bu/ac	Alfalfa	Alfalfa
17508	8 GUSTESON NORTH	SE 10-10-3-W1	180 N	Alfalfa	4 T/Ac	Canola	Oats
17509	9 JENSON	NW 26-10-3-W1	180 N	Canola	55 bu/ac	Barley	Canola - LL
17510	10 JOE LEGAULT, LOFTO	SW 10-10-3-W1	320 N	Wheat - Winter	90 bu/ac	Canola	Barley
17512	11 LARSON	S 14-10-3-W1	265 N	Canola	55 bu/ac	Barley	Canola - LL
17515	12 LAVOIE	S 15-10-3-W1	305 N	Canola	55 bu/ac	Oats	Canola
17518	13 LEGE	NE 25-10-3-W1	135 N	Wheat - Winter	90 bu/ac	Canola	Corn
17521	14 NORTH DUMP		0 N				
17522	15 NORTH GERVAIS	NE 11-10-3-W	180 N	Corn	140 bu/ac	Oats	Barley
17523	16 NORTH TOWER	W 1/2 25-10-3-W	310 N	Canola	55 bu/ac	Rye Grass - Annual	Wheat HRS - Warboton
17527	17 N WALDHEIM RD	S 26-10-3-W1	305 N	Canola	55 bu/ac	Barley	Canola - LL
17528	18 REGAUX	E 9-10-3-W1	315 N	Barley	100 bu/ac	Soybeans	Barley
17529	19 RIVERLOT	SE 25-10-3-W1	115 N	Wheat - Winter	90 bu/ac	Canola	Wheat HRS - Warboton
17530	20 SOUTH GERVAIS	SE 11-10-3-W1	122 N	Canola	55 bu/ac	Wheat	Barley
17531	21 SOUTH WALDHEIM RD (N)	NE 23-10-3-W1	232 N	Oats	140 bu/ac	Flax	Canola - LL
17535	22 SWENSON	NE 12-10-3-W1	78 N	Barley	100 bu/ac	Canola	Alfalfa
17538	23 TOWER	NW 24-10-3-W1	135 N	Wheat - Winter	90 bu/ac	Canola	Wheat HRS - Warboton
17542	24 TOWER AND RIVER	E 24-10-3-W1	280 N	Wheat - Winter	90 bu/ac	Canola	Wheat HRS - Warboton
		N 15-10-3-					

# File nutrient plan by July 10

**LIVESTOCK MANURE AND MORTALITIES MANAGEMENT REGULATION**  
 Manure Management Plan

All livestock operations in Manitoba with 300 animal units (A.U.) or more are required under Section 13(1) of the *Livestock Manure and Mortalities Management Regulation* under *The Environment Act*, to submit an annual manure management plan to Manitoba Conservation. The plan must be submitted by July 10 for fertilization programs beginning in the fall, and by February 10 for fertilization programs beginning in the spring.

**Section A - Operation Information**

Name of Operation: James Valley Colony Farms Ltd  
 Mailing Address: Box 324 Postal Code: R0H-0H0  
 Location of Operation: ELGIN RD NE 14-10-3  
 Qtr. Sec. Twp. Rge. E/W/T4 or River Lot/Parish: GARTER  
 Rural Municipality: Edwards Herby / Brad Scheel G.P.S. in Decimal Degrees if available  
 Name of Contact: Edwards Herby / Brad Scheel  
 Contact Numbers: 204-333-2827 Business 204-781-3777 Cellular Facsimile  
 Owner (legal name): Same Corp File # if app. \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
 Contact Numbers: Business Residence Cellular Facsimile \_\_\_\_\_  
 Affiliate (legal name): \_\_\_\_\_

NB: Confirmation of manure spread including actual application rates, analysis of manure, field maps, coordinates (if available), field access location, contact numbers of field owners/operations must be submitted after manure is spread. Additional MMP's may not be registered unless this information is received by Manitoba Conservation.

Manure management plan required to comply with a Director's Order or an Environment Officer Order.  
 Yes If yes, Order number: \_\_\_\_\_

**FOR DEPARTMENT USE ONLY**

Received by: \_\_\_\_\_ Officer: \_\_\_\_\_  
 Date received: \_\_\_\_\_  
 Follow-up required: Yes  No   
 Nature of follow-up: \_\_\_\_\_

Proprietary (confidential) information will be protected in accordance with Manitoba law. Personal information is collected under the authority of The Environment Act, the Livestock Manure and Mortalities Management Regulation, and will be used to issue receipts, for surveys, administration and enforcement purposes. Information collected is processed by the privacy provisions of The Freedom of Information and Protection of Privacy Act. If you have any questions, contact the Access & Privacy Coordinator, 1381 Whyte Avenue, Winnipeg MB R3B 1Y7; 1-204-945-4170.

Please complete this form and forward to the Environmental Livestock Program, Manitoba Conservation, Box 46, 200 Saulteaux Crescent, Winnipeg MB R3J 3W3, Phone: 204-945-3789/Fax: 204-945-2420

# Schedule E

- Fields identified for proposed application of manure

## Section E - Field Application Summary

Crop year for which manure will be applied: 2007 Manure Form:  SOLID or  LIQUID  
 Livestock type: hogs If no Manure is to be applied, check here:

Legal Description	Field ID	G.P.S. COORDINATES (4 corners of the field) Coordinates in Decimal Degrees (if available)	Legal Owner's name and phone	Field Size (acres)	Soil Class and Section*	Proposed Crop	9 - 24 inch depth pH (range (N), N) in the acre*	Target Yield (barrels, bushels, tonnes)	Crop Nitrogen Recommendations (kg/acre)	Manure Application Rate Chosen: <u>solid</u> or <u>liquid</u>	Application Season (Spring/Fall/Summer)	Application Start Date (day / month / year)	Application Method*	Additional Nitrogen Fertilizer (kg N/acre)	Applicator Name, Phone, License
	W/2 11-10-3		JAMES VALLEY S.	1.5		Corn					Fall		F		B. Schnell 2122
	S/2 14-11-3		JAMES VALLEY S.	1.5									F		B. Schnell 2122
	S/2 15-11-3		JAMES VALLEY S.	1.5									F		B. Schnell 2122

\*Fields to be measured that are soil sampled and the analytical reports submitted to Manitoba Conservation. Soiled soil sampling procedures, as outlined on Page 4 of the Detailed Instructions, are required to obtain an accurate soil nutrient assessment.

<sup>1</sup> Indicate only the available acres for manure spreading (exclusive of setbacks from surface water courses, etc.)  
<sup>2</sup> Manure is a potential Contaminant Priority Class including vehicles (leaking fuel/oil) as determined by PUBLISHED MANITOBA SOIL QUALITY RISK INDEX, or equivalent data determined by Manitoba Land Initiative criteria. Use the worst class manure will be spread on.  
<sup>3</sup> As shown on the soil analysis report appended to this form. If soil analysis reports are not available at the time of submitting the form, they must be forwarded to Manitoba Conservation 14 days before application of manure to allow for processing.  
<sup>4</sup> Indicate the recommended nitrogen (N) application rate suggested by the soil fertility guide, or the soil analysis report, whichever is lower.  
<sup>5</sup> Choose 1 of the following and put the corresponding letter on the form: A. Broadcast and incorporate after 3 days, B. Broadcast + incorporate after 2 days, C. Broadcast and incorporate within 2 days, D. Broadcast and no incorporation, E. Broadcast and no incorporation on terrain, F. Injection, G. Injection and incorporation within 2 days, H. Injection and no incorporation, NH: Apply as similar to manure, broadcast + incorporate for purpose of plan.  
<sup>6</sup> Applicator information required if applicator is not the operator.  
<sup>7</sup> Additional Fertilizer - Manure application must not result in soil N2O above the regulated limit in that crop year.  
 Note: Plan must be certified by operator on Page 5. If the plan is prepared for the operator, it must be certified by a Professional Agronomist on Page 5. Incomplete information voids this Manure Management Plan.

REPORT N 06152-8001  
 ACCOUNT NO. 95094

**A & L CANADA LABORATORIES INC.**  
 2136 Jetstream Road, London, ON, N5V 3P5 (519) 457-2575 (519) 457-2664



TO: AGRI-TREND AGROLOGY  
 BOX 60  
 12 ASHLAND DRIVE  
 SANFORD, MB R0G 2J0  
 204-739-3368  
 ATTN: BRAD SCHNELL

FOR: JAMES VALLEY COLONY

### MANURE ANALYSIS

LAB NUMBER: 152803  
 SAMPLE ID: RL-1

DATE RECEIVED: 8/2/2006  
 DATE REPORTED: 8/8/2006

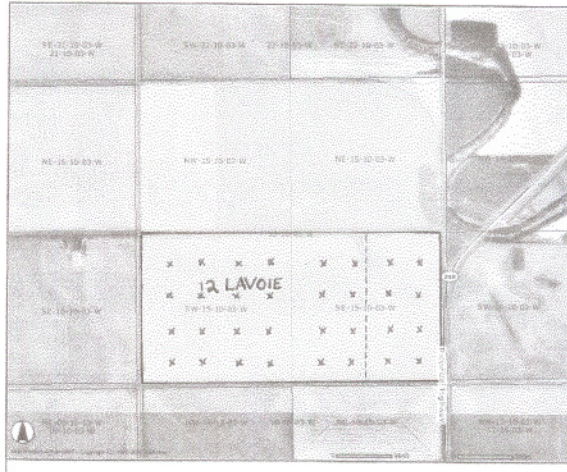
PAGE: 1

ANALYTES	UNIT	RESULTS	QUALITY	STANDARD
Sulfur	ppm	264		
Dry Matter	%	2.4		
Nitrogen (Total)	%	0.31	31.3	
NH4-N	%	0.22	22.0	2.3
Phosphorus (Total)	%	0.05		
Phosphate (P as P2O5)**	%	0.11	11.4	4.6
Potassium (Total)	%	0.20		
Potash (K as K2O)**	%	0.24	24.0	21.6
Organic Matter*	%	1.9		
Carbon:Nitrogen Ratio (C:N)		3:1		
Sodium	%	0.056	5.6	
Aluminum	ppm	18		

\* Organic Matter is reported on an as is basis.  
 \*\* Available nutrients are reported as total available. Only a portion of these nutrients will be available the year of application.  
 For information on nitrogen availability, see reverse side of page.  
 A&L Canada is a laboratory accredited by Standards Council of Canada / CAEL and OMAF

## Field Map

- Soil sampled at the same coordinates by GPS each year



Report No. : 06234-091  
Account Number: 95094

**A & L Canada Laboratories**  
2136 Jetstream Rd, London, Ontario, N5V 3P5  
Telephone: (519) 457-2573 Fax: (519) 457-2664



To: AGRITREND AGRICULTURE  
BOX 60  
12 ASHLAND DRIVE  
SANFORD, MB R0G 2J0  
Attn: BRAD SCHNELL  
204-739-0398  
Report Date: 9/28/2006

For: JAMES VALLEY COLONY LTD  
Grower Code: 17515  
Field: 12 LAVOIE

### SOIL TEST REPORT

Page: 1

No	Legal Land Concept	Depth	Lab Reference	Organic Matter (%)	Inorganic - P		Inorganic - K		Inorganic - Mg		Calcium		pH	CEC meq/100g	Percent Base Saturation		
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	% K			% Mg	% Ca	% H
17515	8	17029	5.1	25	33	904	1850	4870	7.6	41.5	3.1	37.1	58.0	1.1			
17515	12	17030	3.5			278	2020	5050	8.2	43.3	1.6	38.5	58.5	1.3			
17515	24	17031	2.8			289	2040	5850	8.0	59.5	1.4	36.0	38.0	2.0			

No	Depth	Sulfur (ppm)	Manganese (ppm)	Zinc (ppm)	Nickel (ppm)	Iron (ppm)	Copper (ppm)	Boron (ppm)	Molybdenum (ppm)	Sulfate (ppm)	Selenium (ppm)	Aluminum (ppm)	Silica (ppm)	Nitrogen (ppm)	Chloride (ppm)	Sodium (ppm)
38	2	3	48	80	3.3	2.0	0.7	0.9	24	172	0.08	0.04	0.04	27	150	
39	2														129	
199	2														234	

### SOIL FERTILITY GUIDELINES (lbs/ac)

Crop	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
Wheat											

Our report is intended for a farmer or grower in addition to soil fertility. No guarantee or warranty is made by A & L. Results are based on bulked samples to a level to maximize soil health. Banding and/or precision placement techniques can be used to increase fertilizer efficiency. If this report contains any in excess of 7500 ppm Ca it may or may not affect the calculated Carbon Exchange Capacity. Incomplete soil data may affect our conclusions.

A & L Canada Laboratories is a member of the Canadian Council of Chemists and Technicians.

# Schedule E

- Submitted with crop plan and soil test

## Section E - Field Application Summary

Crop year for which manure will be applied: 2007 Manure Form:  SOLID or  LIQUID  
 Livestock type: Milk If no Manure is to be applied, check here:

Legal Description	<u>1/2 11-10-5</u>	<u>1/2 14-11-2</u>	<u>1/2 15-10-3</u>
Field ID	<u>12-LAUB</u>	<u>12-LAUB V</u>	<u>12-LAUB E</u>
G.P.S. COORDINATES (4 corners of the field) Coordinates in Decimal Degrees (if available)			
Legal Owner's name and phone	<u>James Valley</u>		
Field Size (acres)	<u>305.227</u>		
Soil Class and Subclass <sup>1</sup>	<u>305</u>		<u>305</u>
Proposed Crop	<u>Corn</u>		
0-24 inch depth soil nitrate (NO <sub>3</sub> -N) in kg/acre <sup>2</sup>			<u>70</u>
Target Yield (bushels, kg/ha, tons/acre)	<u>55</u>		
Crop Nitrogen Recommendation <sup>3</sup> (kg/ha)			<u>216</u>
Manure Application Rate (kg/ha or tons/acre)			<u>7500/ha</u>
Application Season (Spring/Fall/Summer)	<u>Fall</u>		
Application Start Date (day / month / year)			<u>10/7/06</u>
Application Method <sup>4</sup>	<u>F</u>	<u>F</u>	<u>F</u>
Additional Nitrogen Fertilizer <sup>5</sup> (kg N/ha)			
Applicator <sup>6</sup> Name, Phone, License	<u>Edwin Nelson</u>		

Fields to be manured must be soil sampled and the analytical reports submitted to Manitoba Conservation. Standard soil sampling procedures, as outlined on Page 4 of the Detailed Instructions, are required to obtain an accurate soil nutrient assessment.

<sup>1</sup> Indicate only the available acres for manure spreading (exclusive of setbacks from surface water courses, etc.).  
<sup>2</sup> Must be correct Agricultural Capability Class including subclass (limiting factor(s)) as determined by PUBLISHED MANTOIA SOIL SURVEY REPORT, or electronic data distributed by Manitoba Land Information website. Use the worst class unless you can prove otherwise.  
<sup>3</sup> As shown on the soil analysis report appended to this form. If soil analysis reports are not available at the time of submitting the form, they must be forwarded to Manitoba Conservation 14 days before application of manure to allow for processing.  
<sup>4</sup> Indicate the recommended nitrogen (N) application rate suggested by the soil fertility guide, or the soil analysis report, whichever is lower.  
<sup>5</sup> Choose 1 of the following and put the corresponding letter on the form: A. Broadcast and incorporate after 2 days, B. Broadcast + incorporate after 3 days, C. Broadcast and incorporate within 2 days, D. Broadcast and no incorporation, E. Broadcast and no incorporation on forage, F. Injection, G. Irrigation and incorporation within 3 days, H. Irrigation and no incorporation, NH: Acreway or similar is considered broadcast + incorporate for purpose of plan.  
<sup>6</sup> Applicator information required if applicator is not the operator.  
 Additional Fertilizer + Manure Application must not result in soil NO<sub>3</sub> above the registered limit in that crop year.  
 Note: Plan must be certified by operator on Page 5. If the plan is prepared for the operator, it must be certified by a Professional Agronomist on Page 5. Incorrect/incomplete information voids this Manure Management Plan.

## Work Order / Applicator's Logs

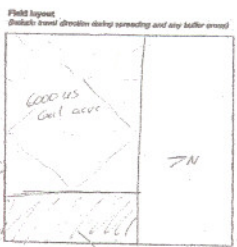
Client's Name: James Valley Colony - Sept 13/06

Field Identification: 12-LAUB E Area: 305 a  
 Name of operator: Edwin Nelson Spreader ID and capacity:

Date	Moisture Source	Type Application Rate (kg/ha or gal/acre)	Operator Name	Weather/Conditions	Wind Direction	Wind Speed (km/h)	Temperature (°C)	Soil Moisture	Comments
3/5/06	H <sub>2</sub> O	7500 kg/ha	Edwin Nelson						apparently 6000 kg/ha soil conc. went away and couldn't be E 80

Total of loads (per ha) applied:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Total applied: \_\_\_\_\_  
 Per Irrigation system(s) (see flow log): \_\_\_\_\_  
 Flow rate: 600 gal/min  
 Start time: \_\_\_\_\_  
 Total applied: \_\_\_\_\_  
 Actual application rate: 1550 kg/ha (total applied / area)

7N  
76 mbaalve.  
E 80 ahrs.  
305-60-2250 1550 kg/ha 6000 kg/ha  
305

Confirmation sheet is submitted to Manitoba Conservation

### CONFIRMATION SHEET

NB: \* = Required \* Receipt number: 2007-202

**Field Diagram**

**Field Diagram**

Legal Description\* S 15-10-3 Owner\* James Valley Ltd.  
 Phone #\* 553-2807

GPS (UTM) N \_\_\_\_\_  
 E \_\_\_\_\_

Manure Analysis 24 lb/1000gal  
 Application Rate\* 6.855 gal/ac  
 Application Date\* Oct 3-5/06  
 Crop\* Canola

Legal Description\* \_\_\_\_\_ Owner\* \_\_\_\_\_  
 Phone #\* \_\_\_\_\_

GPS (UTM) N \_\_\_\_\_  
 E \_\_\_\_\_

Manure Analysis \_\_\_\_\_ lb/1000gal  
 Application Rate\* \_\_\_\_\_ gal/ac  
 Application Date\* \_\_\_\_\_  
 Crop\* \_\_\_\_\_

**FIELDS NOT USED**  
 Fields submitted on the original plan but not used should be clearly listed below.

Signature\* David Schull Date\* Nov 21/06

Page 4 of 4

Field is programmed for desired crop

The Field Programmer™

Client: **JAMES VALLEY COLONY LTD**  
 Year: **2007**  
 Field: **#17515 - 12 LAVOIE**

Field Details	Soil Analyzer	Manure Analyzer	Field Programmer	Crop Programmer											
<b>UPDATE</b>				17515 - 12 LAVOIE											
Legal	S 15-10-3-W1	# Acres	305	Irrigated											
Intended Crop	Canola	2005 Crop	Oats	2005 Crop											
Variety		Manure Applied	Liquid	X-Ref Coach											
Target Yield	55 bu/ac	Amount Applied	6000 gal/acre												
Cultural Practice		Texture	% Sand	% Silt											
Problems / Objectives:															
Crop Type: Variety: Germ: Mortality: TKW: Plants/ft²: Rate: Comments:															
Soil Test Report															
Depth	OM	P	P1	P2	K	Mg	Ca	pH	pH S	CEC	% K	% Mg	% Ca	% H	% Na
0-6" - 1-A	5.1	25	33	0	304	1830	4870	7.6	0	41.5	3.1	37.1	58.6	0	1.1
6-12" - 1-B	3.5	0	0	0	278	2020	5050	8.2	0	43.3	1.6	38.8	58.3	0	1.3
12-24" - 1-C	2.8	0	0	0	269	2340	5850	8	0	50.5	1.4	36.0	58	0	2
Depth	S	N	Zn	Mn	Fe	Cu	B	Mo	SS	Set P%	Al	K/Mg	Cl	Na	
0-6" - 1-A	35	29	3.3	48	60	3.3	2	0.9		24	172	0.08	47	198	
6-12" - 1-B	33	2	0	0	0	0	0	0		0	0.04	0	0	130	
12-24" - 1-C	199	2	0	0	0	0	0	0		0	0.04	0	0	234	
Total Fertilizer Required															
Soil Requirements															
N					P	K	S	Mg	Ca	Cl	B	Cu	Fe	Mn	Zn
0					15	0	15	0	0	0	0	0	0	0	0
Add Recommendation															
Comment	Placement	Type	N	P	K	S	Mg	Ca	Cl	B	Cu	Fe	Mn	Zn	
Estimated From Manure			116.6	55.2	168.0	12.1	38.4	76.8	0	0.1	0.9	6.9	1.2	3.5	
Seed Placed	Dry		0	15	0	15	0	0	0	0	0	0	0	0	
<b>Total</b>															
116.6					70.2	168	27.1	38.4	76.8	0	0.1	0.9	6.9	1.2	3.5
Other: Product: Rate: Stage:															

Multiple years of soil test analysis readily on file

Client: JAMES VALLEY COLONY LTD  
Year: 2007  
Field: #17515 - 12 LAVOIE

**The Soil Analyzer**  
Agri-Coach: Brad Schnell  
Phone: (204) 736-2245



Soil Test Report - 2007

Depth	OM	P	P1	P2	K	Mg	Ca	pH	pH B	CEC	% K	% Mg	% Ca	% H	% Na
0-6" - 1-A	5.1	25	33	0	504	1850	4870	7.6	0	41.5	3.1	37.1	58.6	0	1.1
6-12" - 1-B	3.5	0	0	0	278	2020	5050	8.2	0	43.3	1.6	38.8	58.3	0	1.3
12-24" - 1-C	2.8	0	0	0	269	2340	5850	8	0	50.5	1.4	38.6	58	0	2
Depth	S	N	Zn	Mn	Fe	Cu	B	Mo	SS	Sat P%	Al	K/Mg	Cl	Na	
0-6" - 1-A	35	29	3.3	48	60	3.3	2		0.9	24	172	0.08	47	106	
6-12" - 1-B	33	2	0	0	0	0	0		0	0	0	0.04	0	126	
12-24" - 1-C	199	2	0	0	0	0	0		0	0	0	0.04	0	234	

Soil Test Report - 2005

Depth	OM	P	P1	P2	K	Mg	Ca	pH	pH B	CEC	% K	% Mg	% Ca	% H	% Na
0-6"	4	16	27	0	478	1835	6390	8.2	0	48.8	2.5	31.3	65.4	0	0.8
6-12"	2.5	0	0	0	327	2310	7200	8.5	0	56.7	1.5	34	63.5	0	1
12-24"	2.3	0	0	0	324	2650	7140	8.2	0	59.7	1.4	37	59.8	0	1.9
Depth	S	N	Zn	Mn	Fe	Cu	B	Mo	SS	Sat P%	Al	K/Mg	Cl	Na	
0-6"	33	7	2.8	67	71	2.5	2.2		0.5	13	265	0.08	21	85	
6-12"	42	2	0	0	0	0	0		0	0	0	0.04	0	132	
12-24"	90	2	0	0	0	0	0		0	0	0	0.04	0	257	

Soil Test Report - 2005

Depth	OM	P	P1	P2	K	Mg	Ca	pH	pH B	CEC	% K	% Mg	% Ca	% H	% Na
0-6"	5.1	32	57	0	554	1160	4850	7.6	0	35.5	4	27.2	68.3	0	0.5
6-12"	2.7	0	0	0	293	1760	5620	8.3	0	43.8	1.7	33.4	64.1	0	0.8
12-24"	2.5	0	0	0	278	1940	5290	8.2	0	43.9	1.6	36.8	60.2	0	1.3
Depth	S	N	Zn	Mn	Fe	Cu	B	Mo	SS	Sat P%	Al	K/Mg	Cl	Na	
0-6"	106	8	4.1	36	54	2.1	1.5		0.6	92	79	0.15	21	39	
6-12"	24	4	0	0	0	0	0		0	0	0	0.05	0	78	
12-24"	29	5	0	0	0	0	0		0	0	0	0.04	0	133	

Agri-Trend Agrology Ltd.

88, 4030 - 81st Street, Red Deer, Alberta T4N 2B2, Tel: Free 1-877-CHOP-PLAN (276-7226), Website: www.agritrend.com  
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Log of complete manure application system

Client: JAMES VALLEY COLONY LTD  
Year: 2007  
Field: #17515 - 12 LAVOIE

**The Livestock Analyzer™**

Manure Applications since Jul. 30, 2005

Date	Field	Total Applied	Acres	Comments
Aug. 31, 2005	17527 - 17 N WALDHEIM RD S 26-10-3-W1	1,616,500	305 ac	
Sep. 06, 2005	17502 - 24 TOWER AND RIVER E 24-10-3-W1	1,724,800	280 ac	
Sep. 08, 2005	17504 - 4 CORNER SW 24-10-3-W1	924,000	132 ac	
Sep. 12, 2005	17530 - 23 TOWER HW 24-10-3-W1	945,000	135 ac	
May. 06, 2006	17529 - 19 RIVERLOT SE 25-10-3-W1	701,204	72 ac	Nice day pumped till 3AM
May. 08, 2006	17529 - 19 RIVERLOT SE 25-10-3-W1	418,777	43 ac	Nice day pumped 5AM-8PM
May. 09, 2006	17528 - 13 LEGE NE 26-10-3-W1	1,180,010	130 ac	Started May 9 finished on 10th
Sep. 27, 2006	17530 - 20 SOUTH GERVAIS SE 11-10-3-W1	494,240	80 ac	This rate on east side
Sep. 28, 2006	17530 - 20 SOUTH GERVAIS SE 11-10-3-W1	389,172	42 ac	This rate west side
Sep. 29, 2006	17522 - 15 NORTH GERVAIS NE 11-10-3-W1	1,567,880	180 ac	Pumped north of driveway, finished on the 30th
Oct. 03, 2006	17515 - 12 LAVOIE E 15-10-3-W1	1,549,800	225 ac	Went well couldn't do east 80 a, finished on 4th & 5th

14000 Layers (600 Sow Farrow to Finish)

Species	Quantity	Output/Animal	Avg. Output/Animal	Date In	Date Out	Output
Layers/100	140	6 gal/day		Sep. 15, 2005	Sep. 30, 2015	8.4

600 Sow Farrow to Finish (600 Sow Farrow to Finish)

Species	Quantity	Output/Animal	Avg. Output/Animal	Date In	Date Out	Output
Farrow to Finish	600	14.4 gal/day		Sep. 15, 2005	Sep. 30, 2015	8640.0

65 Dairy Cows (600 Sow Farrow to Finish)

Species	Quantity	Output/Animal	Avg. Output/Animal	Date In	Date Out	Output
Free Stall (dries-milking). Includes milking parlour waste of 20 L per milking cow (not replacement)	65	25.7 gal/day		Sep. 15, 2005	Sep. 30, 2015	1670.5

## James Valley Colony Manure Nutrient Management Plan

- Crop planning
- File manure nutrient management plan
- GPS soil testing
- Submit Schedule E : crop plan / soil test
- Manure analysis and application
- Field programmer
- Livestock analyzer