

**ANALYTICAL REPORT**

**AMEC Earth & Environmental**  
**5681-70 Street**  
**Edmonton, AB T6B-3P6**

**Date Received:** 2006/05/23  
**Date Sampled:** 2006/05/09  
**Report Date:** 2009/02/11

**Soil Analysis**

**Attention:** Turchenek, Larry

**Project No.** CE03210 PHASE 005 Ta

**File No.:** EC-50500

Analyst	LD	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/07	2006/06/07	2006/06/07
Analytical Parameter	pH (1:2 CaCl2)	Cation Exchange Capacity (CEC)	Calcium (Exchangeable)	Magnesium (Exchangeable)	Sodium (Exchangeable)
Units	pH units	cmol/kg	cmol/kg	cmol/kg	cmol/kg
Reference Method	McKeague 3.11	McKeague 3.32	McKeague 3.32	McKeague 3.32	McKeague 3.32
MDL	0.01	0.5	0.01	0.01	0.01
06-6295- / SS01-L	2.97	---	---	---	---
06-6296- / SS01-F	3.10	105	16.5	3.10	< 0.01
06-6297- / SS01-H	2.64	116	2.87	1.92	0.25
06-6298- / SS01-C	2.97	---	---	---	---
06-6299- / SS02-LF	3.19	108	12.6	3.94	0.04
06-6300- / SS02-H	3.34	99.7	5.51	1.60	< 0.01
06-6301- / SS02-Bhf	4.19	50.7	0.21	0.07	< 0.01
06-6302- / SS02-Bf	4.19	35.7	0.14	0.06	0.07
06-6302-D / SS02-Bf (Duplicate)	4.19	38.4	0.14	0.04	< 0.01
06-6303- / SS02-BCgj	4.43	---	---	---	---
06-6304- / SS02-Cgj	4.48	---	---	---	---
06-6305- / SS03-LF	2.96	---	---	---	---
06-6306- / SS03-H	2.66	138	1.12	9.03	0.23
06-6307- / SS03-Ae	2.92	34.9	< 0.01	0.29	< 0.01
06-6308- / SS03-Bf	4.04	35.4	< 0.01	0.09	< 0.01
06-6309- / SS03-BC	4.41	---	---	---	---
06-6310- / SS03-Cgj1,2	4.42	---	---	---	---
06-6311- / SS04-LF	3.12	---	---	---	---
06-6312- / SS04-H	2.82	---	---	---	---
06-6313- / SS05-LF	3.06	91.6	8.18	1.77	0.14
06-6314- / SS05-H	2.64	129	3.45	1.59	0.19
06-6315- / SS05-Cgj	2.92	---	---	---	---
06-6316- / SS06-H	2.94	---	---	---	---
06-6317- / SS06-Bf	4.33	---	---	---	---
06-6318- / SS06-BC	4.96	---	---	---	---

Report reviewed by:



Brenda Chomin, P.Chem  
 Senior Environmental Chemist  
 Laboratory Services

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Analyst	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/07	2006/06/10	2006/06/10	2006/06/10
Analytical Parameter	Potassium (Exchangeable)	Texture - Sand	Texture - Silt	Texture - Clay
Units	cmol/kg	%	%	%
Reference Method	McKeague 3.32	McKeague 2.12	McKeague 2.12	McKeague 2.12
MDL	0.01	1	1	1
06-6295- / SS01-L	---	---	---	---
06-6296- / SS01-F	0.79	---	---	---
06-6297- / SS01-H	0.36	---	---	---
06-6298- / SS01-C	---	74	24	2
06-6299- / SS02-LF	0.88	---	---	---
06-6300- / SS02-H	0.19	---	---	---
06-6301- / SS02-Bhf	0.06	54	38	8
06-6302- / SS02-Bf	0.05	58	38	4
06-6302-D / SS02-Bf (Duplicate)	0.04	58	36	6
06-6303- / SS02-BCgj	---	52	39	9
06-6304- / SS02-Cgj	---	44	45	11
06-6305- / SS03-LF	---	---	---	---
06-6306- / SS03-H	0.49	---	---	---
06-6307- / SS03-Ae	0.05	66	25	9
06-6308- / SS03-Bf	0.03	68	27	5
06-6309- / SS03-BC	---	64	27	9
06-6310- / SS03-Cgj1,2	---	60	25	15
06-6311- / SS04-LF	---	---	---	---
06-6312- / SS04-H	---	---	---	---
06-6313- / SS05-LF	0.38	---	---	---
06-6314- / SS05-H	0.28	---	---	---
06-6315- / SS05-Cgj	---	80	20	< 1
06-6316- / SS06-H	---	---	---	---
06-6317- / SS06-Bf	---	58	36	6
06-6318- / SS06-BC	---	56	40	4

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Analyst	LD	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/07	2006/06/07	2006/06/07
Analytical Parameter	pH (1:2 CaCl2)	Cation Exchange Capacity (CEC)	Calcium (Exchangeable)	Magnesium (Exchangeable)	Sodium (Exchangeable)
Units	pH units	cmol/kg	cmol/kg	cmol/kg	cmol/kg
Reference Method	McKeague 3.11	McKeague 3.32	McKeague 3.32	McKeague 3.32	McKeague 3.32
MDL	0.01	0.5	0.01	0.01	0.01
06-6319- / SS06-C	4.66	---	---	---	---
06-6320- / SS07-LF	2.93	114	6.58	1.14	0.15
06-6321- / SS07-Bf	4.65	31.5	3.69	0.25	0.05
06-6322- / SS07-BC	5.18	---	---	---	---
06-6323- / SS08-F	3.09	130	20.7	1.77	0.24
06-6324- / SS08-C	2.95	---	---	---	---
06-6325- / SS09-Bf	4.11	---	---	---	---
06-6326- / SS09-Bfgj	4.40	---	---	---	---
06-6327- / SS09-BCgj	4.55	---	---	---	---
06-6328- / SS10-LF	2.89	---	---	---	---
06-6329- / SS11-LFH	4.75	---	---	---	---
06-6330- / SS11-C1	4.70	---	---	---	---
06-6331- / SS11-C2	4.77	3.7	0.29	0.32	0.46
06-6331-D / SS11-C2 (Duplicate)	4.78	3.1	0.33	0.33	0.79
06-6332- / SS11-C3	4.78	---	---	---	---
06-6333- / SS11-C4	5.14	---	---	---	---
06-6334- / SS12-LF	3.55	116	27.0	4.44	4.75
06-6335- / SS12-H	3.20	74.7	3.88	0.76	1.26
06-6336- / SS12-Ae	3.57	31.0	1.56	0.25	0.49
06-6337- / SS12-Bm	3.86	28.1	1.33	0.19	0.55
06-6338- / SS12-BCgj1,2	4.54	---	---	---	---
06-6339- / SS13-L	3.23	---	---	---	---
06-6340- / SS13-F1,2	2.85	56.9	< 0.01	0.23	1.38
06-6341- / SS13-H	3.62	---	---	---	---
06-6342- / SS13-Cg	4.40	---	---	---	---

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Analyst	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/07	2006/06/10	2006/06/10	2006/06/10
Analytical Parameter	Potassium (Exchangeable)	Texture - Sand	Texture - Silt	Texture - Clay
Units	cmol/kg	%	%	%
Reference Method	McKeague 3.32	McKeague 2.12	McKeague 2.12	McKeague 2.12
MDL	0.01	1	1	1
06-6319- / SS06-C	---	74	18	8
06-6320- / SS07-LF	0.19	---	---	---
06-6321- / SS07-Bf	0.03	78	22	< 1
06-6322- / SS07-BC	---	94	6	< 1
06-6323- / SS08-F	0.57	---	---	---
06-6324- / SS08-C	---	60	36	4
06-6325- / SS09-Bf	---	70	26	4
06-6326- / SS09-Bfgj	---	73	24	3
06-6327- / SS09-BCgj	---	77	22	1
06-6328- / SS10-LF	---	---	---	---
06-6329- / SS11-LFH	---	---	---	---
06-6330- / SS11-C1	---	---	---	---
06-6331- / SS11-C2	0.11	95	3	2
06-6331-D / SS11-C2 (Duplicate)	0.10	95	3	2
06-6332- / SS11-C3	---	69	28	3
06-6333- / SS11-C4	---	96	2	2
06-6334- / SS12-LF	0.68	---	---	---
06-6335- / SS12-H	0.14	---	---	---
06-6336- / SS12-Ae	0.02	27	58	15
06-6337- / SS12-Bm	0.03	15	70	15
06-6338- / SS12-BCgj1,2	---	33	56	11
06-6339- / SS13-L	---	---	---	---
06-6340- / SS13-F1,2	0.05	---	---	---
06-6341- / SS13-H	---	---	---	---
06-6342- / SS13-Cg	---	19	60	21

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Analyst	LD	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/12	2006/06/12	2006/06/12
Analytical Parameter	pH (1:2 CaCl2)	Cation Exchange Capacity (CEC)	Calcium (Exchangeable)	Magnesium (Exchangeable)	Sodium (Exchangeable)
Units	pH units	cmol/kg	cmol/kg	cmol/kg	cmol/kg
Reference Method	McKeague 3.11	McKeague 3.32	McKeague 3.32	McKeague 3.32	McKeague 3.32
MDL	0.01	0.5	0.01	0.01	0.01
06-6343- / SS14-LF	4.45	27.7	7.82	1.51	0.67
06-6344- / SS14-Cgj1	4.64	16.5	5.50	0.76	0.51
06-6345- / SS15-Om	4.97	---	---	---	---
06-6346- / SS15-Cgj1,2	4.77	---	---	---	---
06-6347- / SS16-Ae	3.28	11.2	1.05	0.16	0.34
06-6348- / SS16-Bm	4.35	9.2	0.18	0.03	0.36
06-6349- / SS16-BCgj	5.42	---	---	---	---
06-6350- / SS17-LFH	4.68	---	---	---	---
06-6351- / SS17-Btgj1,2	4.26	---	---	---	---
06-6352- / SS17-BCgj	4.15	---	---	---	---
06-6353- / SS18-LFH	4.59	---	---	---	---
06-6354- / SS18-Btgj	4.61	---	---	---	---
06-6355- / SS19-LFH	3.68	---	---	---	---
06-6356- / SS19-Bt	4.85	---	---	---	---
06-6357- / SS19-BCgj1,2	5.57	---	---	---	---
06-6358- / SS20-LFH	3.44	---	---	---	---
06-6359- / SS20-Bm	4.33	---	---	---	---
06-6360- / SS20-BCgj1,2	5.20	---	---	---	---
06-6361- / SS21-LFH	4.22	72.9	23.5	5.15	1.72
06-6362- / SS21-Bm1,2	4.50	20.1	4.13	1.44	0.36
06-6363- / SS21-BCgj1,2	5.08	---	---	---	---
06-6364- / SS22-LFH	5.33	---	---	---	---
06-6365- / SS22-Bmgj	5.39	---	---	---	---
06-6366- / SS22-BCgj	5.62	---	---	---	---
06-6367- / SS23-F	2.98	99.1	10.0	2.83	2.48

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Analyst	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/12	2006/06/10	2006/06/10	2006/06/10
Analytical Parameter	Potassium (Exchangeable)	Texture - Sand	Texture - Silt	Texture - Clay
Units	cmol/kg	%	%	%
Reference Method	McKeague 3.32	McKeague 2.12	McKeague 2.12	McKeague 2.12
MDL	0.01	1	1	1
06-6343- / SS14-LF	0.03	---	---	---
06-6344- / SS14-Cgj1	0.24	25	68	7
06-6345- / SS15-Om	---	---	---	---
06-6346- / SS15-Cgj1,2	---	65	26	9
06-6347- / SS16-Ae	0.04	77	18	5
06-6348- / SS16-Bm	0.02	97	2	1
06-6349- / SS16-BCgj	---	43	30	27
06-6350- / SS17-LFH	---	---	---	---
06-6351- / SS17-Btgj1,2	---	45	36	19
06-6352- / SS17-BCgj	---	51	34	15
06-6353- / SS18-LFH	---	---	---	---
06-6354- / SS18-Btgj	---	59	25	15
06-6355- / SS19-LFH	---	---	---	---
06-6356- / SS19-Bt	---	51	38	11
06-6357- / SS19-BCgj1,2	---	57	26	17
06-6358- / SS20-LFH	---	---	---	---
06-6359- / SS20-Bm	---	65	29	7
06-6360- / SS20-BCgj1,2	---	33	35	33
06-6361- / SS21-LFH	2.54	---	---	---
06-6362- / SS21-Bm1,2	0.17	53	35	13
06-6363- / SS21-BCgj1,2	---	55	29	17
06-6364- / SS22-LFH	---	---	---	---
06-6365- / SS22-Bmgj	---	47	43	11
06-6366- / SS22-BCgj	---	45	33	23
06-6367- / SS23-F	0.50	---	---	---


\*Note: Insufficient sample passing 2mm sieve.

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

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Analyst	LD	LD	LD	LD	LD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/07	2006/06/07	2006/06/07
Analytical Parameter	pH (1:2 CaCl2)	Cation Exchange Capacity (CEC)	Calcium (Exchangeable)	Magnesium (Exchangeable)	Sodium (Exchangeable)
Units	pH units	cmol/kg	cmol/kg	cmol/kg	cmol/kg
Reference Method	McKeague 3.11	McKeague 3.32	McKeague 3.32	McKeague 3.32	McKeague 3.32
MDL	0.01	0.5	0.01	0.01	0.01
06-6368- / SS23-H	2.79	71.0	2.06	1.23	1.13
06-6369- / SS24-LFH	2.72	111	2.38	3.92	1.45
06-6370- / SS24-Bf	3.78	25.1	0.11	0.13	0.54
06-6371- / SS25-Bm	4.02	---	---	---	---
06-6372- / SS25-C	4.74	---	---	---	---
06-6373- / SS26-LFH	4.59	---	---	---	---
06-6374- / SS26-Bm	4.25	---	---	---	---
06-6375- / SS26-C	*	---	---	---	---
06-6376- / SS27-LFH	2.53	---	---	---	---
06-6378- / SS27-Bf	4.99	---	---	---	---
06-6379- / SS27-BC	4.53	---	---	---	---
06-6380- / SS28-LFH	2.46	108	3.04	0.91	1.61
06-6381- / SS28-Ae	2.79	11.9	0.12	0.05	0.61
06-6382- / SS28-Bf1,2	3.91	32.9	0.15	0.16	0.59
06-6383- / SS29-LFH	3.09	---	---	---	---
06-6384- / SS29-Ae	3.27	9.7	0.16	0.08	0.45
06-6385- / SS29-Bf	4.21	---	---	---	---
06-6386- / SS29-BC/C	4.63	---	---	---	---
06-6387- / SS14-Cgj2	4.43	8.6	3.57	0.41	0.42
06-6388- / SS14-Cgj3	4.67	12.1	2.13	0.23	0.41

\*Note: Insufficient sample passing 2mm sieve.

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



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Date of Analysis (yyyy/m/d)	2006/06/07	2006/06/10	2006/06/10	2006/06/10
Analytical Parameter	Potassium (Exchangeable)	Texture - Sand	Texture - Silt	Texture - Clay
Units	cmol/kg	%	%	%
Reference Method	McKeague 3.32	McKeague 2.12	McKeague 2.12	McKeague 2.12
MDL	0.01	1	1	1
06-6368- / SS23-H	0.13	---	---	---
06-6369- / SS24-LFH	0.18	---	---	---
06-6370- / SS24-Bf	0.03	69	27	5
06-6371- / SS25-Bm	---	97	2	< 1
06-6372- / SS25-C	---	100	< 1	1
06-6373- / SS26-LFH	---	---	---	---
06-6374- / SS26-Bm	---	87	10	3
06-6375- / SS26-C	---	*	*	*
06-6376- / SS27-LFH	---	---	---	---
06-6378- / SS27-Bf	---	83	16	< 1
06-6379- / SS27-BC	---	89	10	< 1
06-6380- / SS28-LFH	0.56	---	---	---
06-6381- / SS28-Ae	0.10	59	34	7
06-6382- / SS28-Bf1,2	0.07	71	22	7
06-6383- / SS29-LFH	---	---	---	---
06-6384- / SS29-Ae	0.04	59	38	3
06-6385- / SS29-Bf	---	71	24	5
06-6386- / SS29-BC/C	---	91	6	3
06-6387- / SS14-Cgj2	0.07	63	34	3
06-6388- / SS14-Cgj3	0.07	55	38	7


\*Note: Insufficient sample passing 2mm sieve.

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Analyst	LD	AD	AD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/14
Analytical Parameter	Carbon (Total)	Iron (Pyrophosphate Extr)	Aluminum (Pyrophosphate Extr)
Units	%	%	%
Reference Method	LECO	Carter 25.5.1	Carter 25.5.1
MDL	0.01	0.0001	0.0001
06-6295- / SS01-L	---	---	---
06-6296- / SS01-F	46.8	---	---
06-6297- / SS01-H	39.5	---	---
06-6298- / SS01-C	---	---	---
06-6299- / SS02-LF	51.7	---	---
06-6300- / SS02-H	25.2	---	---
06-6301- / SS02-Bhf	44.1	3.44	3.24
06-6302- / SS02-Bf	5.25	3.47	2.68
06-6302-D / SS02-Bf (Duplicate)	5.06	3.32	2.92
06-6303- / SS02-BCgj	---	---	---
06-6304- / SS02-Cgj	---	---	---
06-6305- / SS03-LF	---	---	---
06-6306- / SS03-H	49.8	---	---
06-6307- / SS03-Ae	---	---	---
06-6308- / SS03-Bf	4.12	2.42	2.35
06-6309- / SS03-BC	---	---	---
06-6310- / SS03-Cgj1,2	---	---	---
06-6311- / SS04-LF	---	---	---
06-6312- / SS04-H	---	---	---
06-6313- / SS05-LF	60.2	---	---
06-6314- / SS05-H	45.3	---	---
06-6315- / SS05-Cgj	---	---	---
06-6316- / SS06-H	---	---	---
06-6317- / SS06-Bf	2.32	0.354	1.16
06-6318- / SS06-BC	---	---	---

Report reviewed by:



Brenda Chomin, P.Chem  
 Senior Environmental Chemist  
 Laboratory Services

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**ANALYTICAL REPORT**

**AMEC Earth & Environmental**  
**5681-70 Street**  
**Edmonton, AB T6B-3P6**

**Date Received:** 2006/05/23  
**Date Sampled:** 2006/05/09  
**Report Date:** 2009/02/11

**Soil Analysis**


**Attention:** Turchenek, Larry

**Project No.** CE03210 PHASE 005 Ta

**File No.:** EC-50500

Analyst	LD	AD	AD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/14
Analytical Parameter	Carbon (Total)	Iron (Pyrophosphate Extr)	Aluminum (Pyrophosphate Extr)
Units	%	%	%
Reference Method	LECO	Carter 25.5.1	Carter 25.5.1
MDL	0.01	0.0001	0.0001
06-6319- / SS06-C	---	---	---
06-6320- / SS07-LF	49.0	---	---
06-6321- / SS07-Bf	5.20	0.472	1.76
06-6322- / SS07-BC	---	---	---
06-6323- / SS08-F	51.6	---	---
06-6324- / SS08-C	---	---	---
06-6325- / SS09-Bf	4.46	1.35	2.45
06-6326- / SS09-Bfgj	4.36	0.749	2.96
06-6327- / SS09-BCgj	---	---	---
06-6328- / SS10-LF	---	---	---
06-6329- / SS11-LFH	---	---	---
06-6330- / SS11-C1	---	---	---
06-6331- / SS11-C2	---	---	---
06-6331-D / SS11-C2 (Duplicate)	---	---	---
06-6332- / SS11-C3	---	---	---
06-6333- / SS11-C4	---	---	---
06-6334- / SS12-LF	54.4	---	---
06-6335- / SS12-H	41.9	---	---
06-6336- / SS12-Ae	---	---	---
06-6337- / SS12-Bm	3.23	0.446	0.813
06-6338- / SS12-BCgj1,2	---	---	---
06-6339- / SS13-L	---	---	---
06-6340- / SS13-F1,2	39.4	---	---
06-6341- / SS13-H	34.6	---	---
06-6342- / SS13-Cg	---	---	---

Report reviewed by:



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 Senior Environmental Chemist  
 Laboratory Services

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**Soil Analysis**


**Attention:** Turchenek, Larry

**Project No.** CE03210 PHASE 005 Ta

**File No.:** EC-50500

Analyst	LD	AD	AD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/14
Analytical Parameter	Carbon (Total)	Iron (Pyrophosphate Extr)	Aluminum (Pyrophosphate Extr)
Units	%	%	%
Reference Method	LECO	Carter 25.5.1	Carter 25.5.1
MDL	0.01	0.0001	0.0001
06-6343- / SS14-LF	10.0	---	---
06-6344- / SS14-Cgj1	---	---	---
06-6345- / SS15-Om	---	---	---
06-6346- / SS15-Cgj1,2	---	---	---
06-6347- / SS16-Ae	---	---	---
06-6348- / SS16-Bm	0.73	0.330	0.510
06-6349- / SS16-BCgj	---	---	---
06-6350- / SS17-LFH	---	---	---
06-6351- / SS17-Btgj1,2	---	---	---
06-6352- / SS17-BCgj	---	---	---
06-6353- / SS18-LFH	---	---	---
06-6354- / SS18-Btgj	---	---	---
06-6355- / SS19-LFH	---	---	---
06-6356- / SS19-Bt	---	---	---
06-6357- / SS19-BCgj1,2	---	---	---
06-6358- / SS20-LFH	38.2	---	---
06-6359- / SS20-Bm	2.00	---	---
06-6360- / SS20-BCgj1,2	---	---	---
06-6361- / SS21-LFH	38.8	---	---
06-6362- / SS21-Bm1,2	1.20	0.938	1.57
06-6363- / SS21-BCgj1,2	---	---	---
06-6364- / SS22-LFH	30.6	---	---
06-6365- / SS22-Bmgj	1.12	0.208	0.180
06-6366- / SS22-BCgj	---	---	---
06-6367- / SS23-F	53.9	---	---

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 Senior Environmental Chemist  
 Laboratory Services

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**5681-70 Street**  
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**Report Date:** 2009/02/11

**Soil Analysis**

**Attention:** Turchenek, Larry

**Project No.** CE03210 PHASE 005 Ta

**File No.:** EC-50500

Analyst	LD	AD	AD
Date of Analysis (yyyy/m/d)	2006/06/14	2006/06/14	2006/06/14
Analytical Parameter	Carbon (Total)	Iron (Pyrophosphate Extr)	Aluminum (Pyrophosphate Extr)
Units	%	%	%
Reference Method	LECO	Carter 25.5.1	Carter 25.5.1
MDL	0.01	0.0001	0.0001
06-6368- / SS23-H	43.2	---	---
06-6369- / SS24-LFH	44.9	---	---
06-6370- / SS24-Bf	3.63	2.24	1.20
06-6371- / SS25-Bm	1.09	0.0854	0.0982
06-6372- / SS25-C	---	---	---
06-6373- / SS26-LFH	---	---	---
06-6374- / SS26-Bm	1.88	0.486	0.400
06-6375- / SS26-C	---	---	---
06-6376- / SS27-LFH	---	---	---
06-6378- / SS27-Bf	1.81	0.182	0.362
06-6379- / SS27-BC	---	---	---
06-6380- / SS28-LFH	41.2	---	---
06-6381- / SS28-Ae	---	---	---
06-6382- / SS28-Bf1,2	7.12	1.79	2.14
06-6383- / SS29-LFH	---	---	---
06-6384- / SS29-Ae	---	---	---
06-6385- / SS29-Bf	1.00	0.340	0.989
06-6386- / SS29-BC/C	---	---	---
06-6387- / SS14-Cgj2	---	---	---
06-6388- / SS14-Cgj3	---	---	---

All Analytical results pertain to samples analyzed as received.

Carter: Carter, Martin R., 1993. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

LECO: Laboratory Equipment Corporation, Saint Joseph, Michigan.

MDL - Method Detection Limit

Report reviewed by:



Brenda Chomin, P.Chem  
 Senior Environmental Chemist  
 Laboratory Services

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5667 - 70 Street  
Edmonton, Alberta  
Canada T6B 3P6  
Tel: (780) 436-2152  
Fax: (780) 377-3600



## ANALYTICAL REPORT

AMEC Earth & Environmental  
5681-70 Street  
Edmonton, AB T6B-3P6

Report Date: 2009/02/11

### Quality Control Standard

Attention: Turchenek, Larry

Project No. CE03210 PHASE 005 Ta

File No.: EC-50500

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
LD	2006/06/14	pH (1:2 CaCl2)	---	McKeague 3.11	0.01	7.66	7.13-8.71	7.92	SS#11
LD	2006/06/14	Cation Exchange Capacity (CEC)	cmol/kg	McKeague 3.32	0.5	13.3	12.88-14.91	13.90	SS#12
LD	2006/06/07	Calcium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	35.3	31.02-39.15	35.09	SS#12
LD	2006/06/07	Magnesium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	4.29	4.08-4.79	4.44	SS#12
LD	2006/06/07	Sodium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	3.58	3.33-3.97	3.65	SS#12
LD	2006/06/07	Potassium (Exchangeable)	cmol/kg	McKeague 3.32	0.01	0.50	0.48-0.55	0.51	SS#12
LD	2006/06/10	Texture - Sand	%	McKeague 2.12	1	48	44-49	46.00	SS#11
LD	2006/06/10	Texture - Silt	%	McKeague 2.12	1	28	22-33	27.00	SS#11
LD	2006/06/10	Texture - Clay	%	McKeague 2.12	1	24	23-28	25.00	SS#11

\*Note: Insufficient sample passing 2mm sieve.

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:

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Senior Environmental Chemist  
Laboratory Services

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Edmonton, AB T6B-3P6

**Report Date:** 2009/02/11

**Quality Control Standard**

**Attention:** Turchenek, Larry

**Project No.** CE03210 PHASE 005 Ta

**File No.:** EC-50500

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
LD	2006/06/14	Carbon (Total)	%	LECO	0.01	3.13	2.78-5.59	4.19	SS#6

All Analytical results pertain to samples analyzed as received.

Carter: Carter, Martin R., 1993. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

LECO: Laboratory Equipment Corporation, Saint Joseph, Michigan.

MDL - Method Detection Limit

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