



Hatch Mott
MacDonald

APPENDIX “F”

Compaction Testing

Astm No. ☐ 1557 ☐ 698
Method ☒ A ☐ B ☐ C

MOISTURE DENSITY TEST

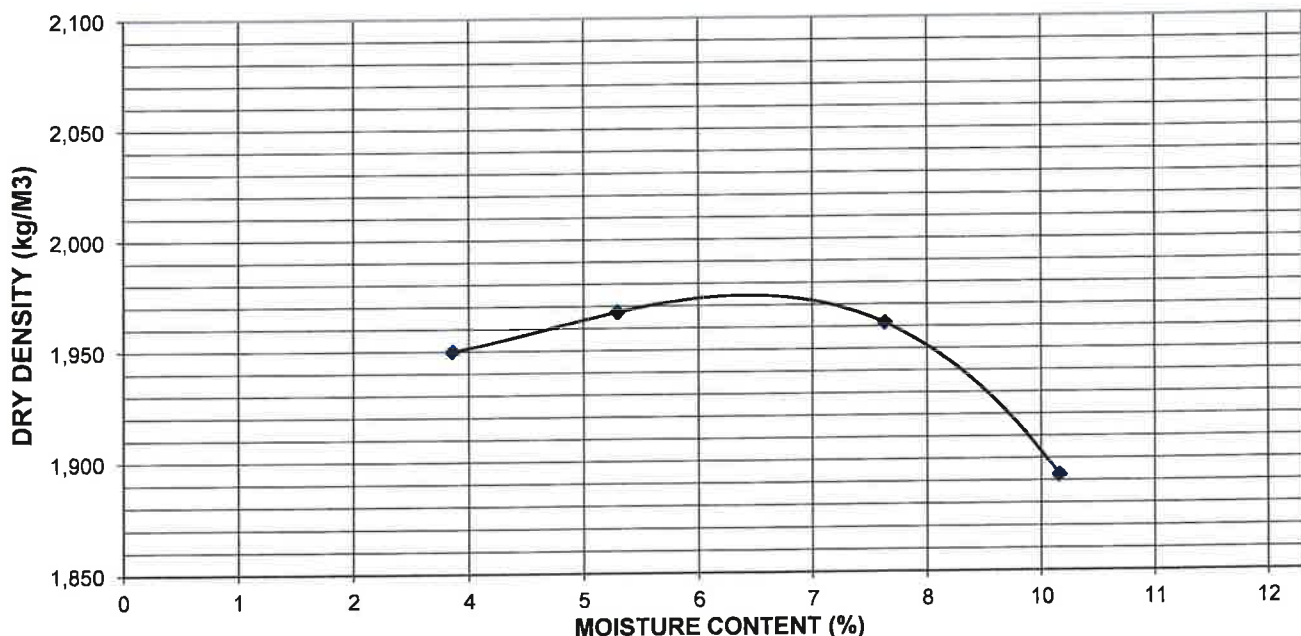
PROJECT NAME Buchans Remediation Project
PROJECT LOCATION Buchans, NL **SAMPLE #** One
SAMPLE DESCRIPTION Class "A" **SAMPLED BY** D. Short
TEST PERFORMED BY K. Goodyear **DATE** 2-Oct-12
MATERIAL SOURCE On Site Pit **SAMPLED FROM** on site

TRIAL NUMBER		1	2	3	4	5	6	7
W D U E N I T I G E T H R M	MOLD NO.							
	WT. SAMPLE WET + MOLD	10,789	10,900	11,005	10,921			
	WT. MOLD	6,504	6,504	6,504	6,504			
	WT. SAMPLE WET	4,285	4,396	4,501	4,417			
	VOLUME MOLD	2.124	2.124	2.124	2.124			
	WET DENSITY kg/m³	2017	2070	2119	2080			
	DRY DENSITY kg/m³	1950	1967	1962	1893			
M C O I N T E R M U N T	CONTAINER NO.	1	2	3	4			
	WT. SAMPLE WET + TARE	1,606.0	2,501.7	2,364.3	2,694.1			
	WT. SAMPLE DRY + TARE	1,559.1	2,419.5	2,246.8	2,522.0			
	WT. WATER	47	82	118	172			
	TARE CONTAINER	203.4	839.3	782.5	779.4			
	WT DRY SOIL	1,356	1,580	1,464	1,743			
	MOISTURE CONTENT	3.5	5.2	8.0	9.9			

Maximum Density 1,975

Optimum Moisture 6.8

MOISTURE DENSITY CURVE



MATERIALS ENGINEERING DIVISION

FIELD DENSITY TEST

CLIENT:	DOEC	PROJECT NO.	299289
PROJECT:	RV Park, Buchans Soil Remediation	DATE:	4-Oct-12
MATERIAL DESCRIPTION:	Class "A"	MATERIAL SOURCE:	Marine Resources Quarry - Buchans
PROCTOR TYPE:	Standard	SPECIFIED % COMPACTION:	100%
MAXIMUM DENSITY (Kg/m3):	1975	OPTIMUM MOISTURE:	6.8
DENSITY STANDARD COUNT:	1985	MOISTURE STANDARD COUNT:	662

TEST NO.	TEST LOCATION	ELEVATION	WET DENSITY	DRY DENSITY	% MOISTURE	% COMPACTION	REMARKS
1	Road Through Park	F.G Class" A"	1880	1827	2.9	92	Fail
2	"	"	1982	1929	2.7	97	Fail
3	"	"	2087	2025	3.1	103	Pass
4	"	"	2045	1986	3.0	101	Pass
5	"	"	1993	1951	2.1	99	Fail
6	"	"	1983	2034	2.6	100	Pass
7	"	"	2018	1962	2.8	99	Fail
8	"	"	2086	2028	2.9	103	Pass
9	"	"	1976	1899	4.1	96	Fail
10	"	"	2112	2053	2.9	104	Pass
11	"	"	2054	1992	3.1	101	Pass
12	"	"	2115	2054	3.0	104	Pass
13	"	"	2071	2009	3.1	102	Pass
14	"	"	2110	2043	3.3	103	Pass

REMARKS: Tests were taken at 20m Intervals along the center of the roadway through park.

HMM FIELD TECHNICIAN: K.Ralph

MATERIALS ENGINEERING DIVISION

FIELD DENSITY TEST

CLIENT:	DOEC	PROJECT NO.	299289
PROJECT:	RV Park, Buchans Soil Remediation	DATE:	4-Oct-12
MATERIAL DESCRIPTION:	Class "A"	MATERIAL SOURCE:	Marine Construction Quarry - Buchans
PROCTOR TYPE:	Standard	SPECIFIED % COMPACTION:	100%
MAXIMUM DENSITY (Kg/m3):	1975	OPTIMUM MOISTURE:	6.8
DENSITY STANDARD COUNT:	1985	MOISTURE STANDARD COUNT:	662

TEST NO.	TEST LOCATION	ELEVATION	WET DENSITY	DRY DENSITY	% MOISTURE	% COMPACTION	REMARKS
16	Lot 1	F.G Class" A"	1989	1936	2.8	98	Fail
17	Lot 2	"	2027	1965	3.2	100	Pass
18	Lot 3	"	1887	1830	3.1	93	Fail
19	Lot 4	"	2007	1938	3.5	98	Fail
20	Lot 5	"	1992	1913	4.1	97	Fail
21	Lot 6	"	2077	1996	4.0	101	Pass
22	Lot 7	"	2044	1995	2.5	101	Pass
23	Lot 8	"	2021	1957	3.3	99	Fail
24	Lot 9	"	2082	2020	3.1	102	Pass
25	Lot 10	"	1922	1878	2.4	95	Fail
26	Lot 11	"	2037	1999	1.9	101	Pass
27	Lot 12	"	1922	1865	3.0	94	Fail
28	Lot 13	"	1970	1915	2.9	97	Fail
29	Lot 14	"	1966	1919	2.4	97	Fail

REMARKS: Tests were taken at center of each RV lot throughout park.

HMM FIELD TECHNICIAN: K.Ralph



MATERIALS ENGINEERING DIVISION

FIELD DENSITY TEST

18 - 22 Balbo Drive
Clareville, NL A5A 4A3
Phone: 709-466-2685
Fax: 709-466-2168

CLIENT:	DOEC	PROJECT NO.	299289
PROJECT:	RV Park, Buchans Soil Remediation	DATE:	4-Oct-12
MATERIAL DESCRIPTION:	Class "A"	MATERIAL SOURCE:	Marine Construction Quarry - Buchans
PROCTOR TYPE:	Standard	SPECIFIED % COMPACTION:	100%
MAXIMUM DENSITY (Kg/m3):	1975	OPTIMUM MOISTURE:	6.8
DENSITY STANDARD COUNT:	1985	MOISTURE STANDARD COUNT:	662

TEST NO.	TEST LOCATION	ELEVATION	WET DENSITY	DRY DENSITY	% MOISTURE	% COMPACTION	REMARKS
30	Lot 15	F.G Class" A"	2047	1986	3.1	101	Pass
31	Lot 16	"	1943	1889	2.8	96	Fail
32	Lot 17	"	2063	2017	2.3	102	Pass
33	Lot 18	"	1995	1935	3.1	98	Fail
34	Lot 19	"	1988	1939	2.5	98	Fail
35	Lot 20	"	1955	1903	2.7	96	Fail
36	Lot 21	"	2017	1955	3.2	99	Fail

REMARKS: Tests were taken at center of each RV lot throughout park.

HMM FIELD TECHNICIAN: K.Ralph