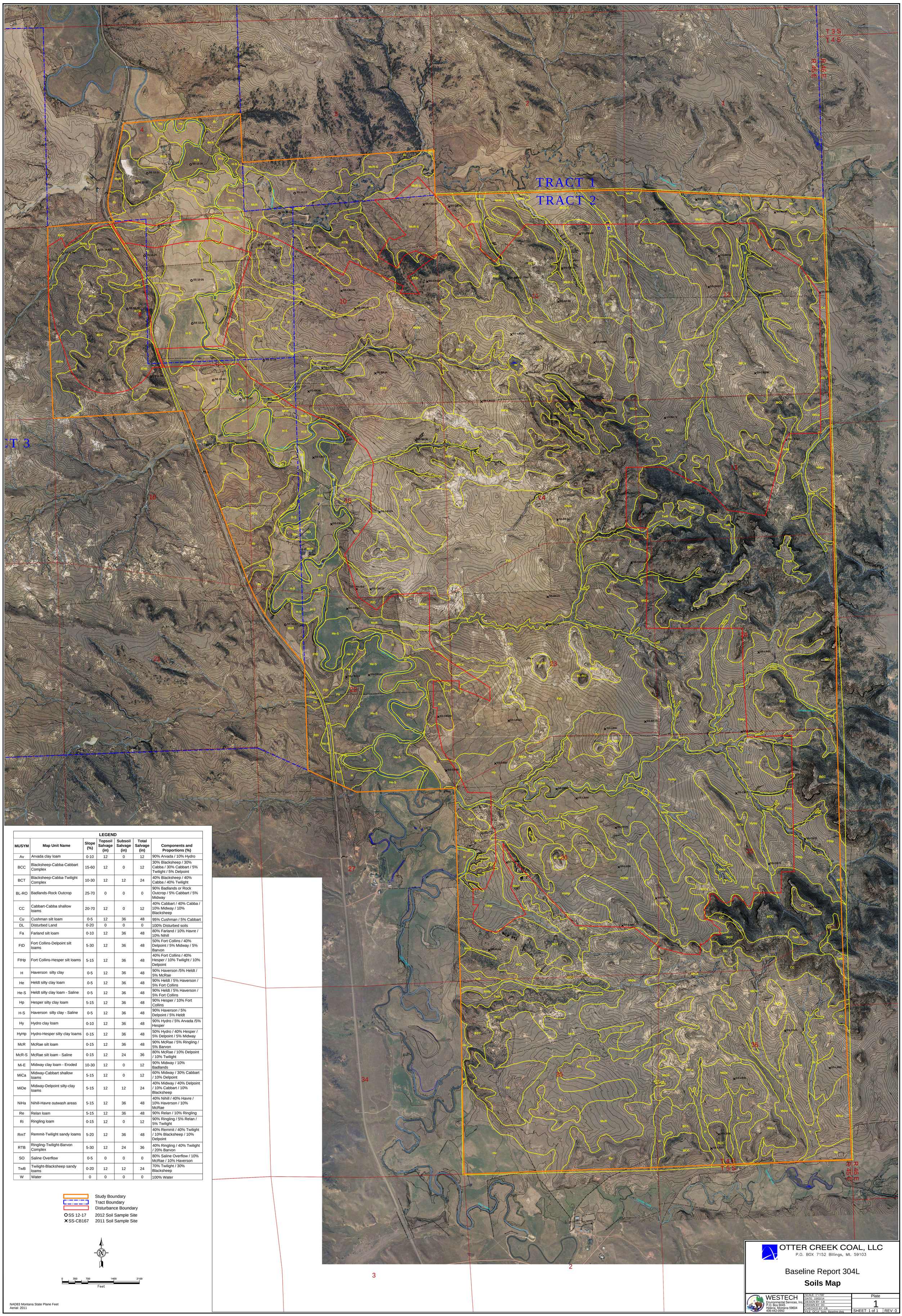

LEGEND						
MUSYM	Map Unit Name	Slope (%)	Topsoil Salvage (in)	Subsoil Salvage (in)	Total Salvage (in)	Components and Proportions (%)
Av	Arvada clay loam	0-10	12	0	12	90% Arvada / 10% Hydro
BCC	Blacksheep-Cabba-Cabbart Complex	15-60	12	0	12	30% Blacksheep / 30% Cabba / 30% Cabbart / 5% Twilight / 5% Delpoint
BCT	Blacksheep-Cabba-Twilight Complex	10-30	12	12	24	40% Blacksheep / 40% Cabba / 40% Twilight
BL-RO	Badlands-Rock Outcrop	25-70	0	0	0	90% Badlands or Rock Outcrop / 5% Cabbart / 5% Midway
CC	Cabbart-Cabba shallow loams	20-70	12	0	12	40% Cabbart / 40% Cabba / 10% Midway / 10% Blacksheep
Cu	Cushman silt loam	0-5	12	36	48	95% Cushman / 5% Cabbart
DL	Disturbed Land	0-20	0	0	0	100% Disturbed soils
Fa	Farland silt loam	0-10	12	36	48	80% Farland / 10% Havre / 10% Nihill
FtD	Fort Collins-Delpoint silt loams	5-30	12	36	48	50% Fort Collins / 40% Delpoint / 5% Midway / 5% Barvon
FtHp	Fort Collins-Hesper silt loams	5-15	12	36	48	40% Fort Collins / 40% Hesper / 10% Twilight / 10% Delpoint
H	Haverson silty clay	0-5	12	36	48	90% Haverson /5% Heldt / 5% McRae
He	Heldt silty clay loam	0-5	12	36	48	90% Heldt / 5% Haverson / 5% Fort Collins
He-S	Heldt silty clay loam - Saline	0-5	12	36	48	90% Heldt / 5% Haverson / 5% Fort Collins
Hp	Hesper silty clay loam	5-15	12	36	48	90% Hesper / 10% Fort Collins
H-S	Haverson silty clay - Saline	0-5	12	36	48	90% Haverson / 5% Delpoint / 5% Heldt
Hy	Hydro clay loam	0-10	12	36	48	90% Hydro / 5% Arvada /5% Hesper
HyHp	Hydro-Hesper silty clay loams	0-15	12	36	48	50% Hydro / 40% Hesper / 5% Delpoint / 5% Midway
McR	McRae silt loam	0-15	12	36	48	90% McRae / 5% Ringling / 5% Barvon
McR-S	McRae silt loam - Saline	0-15	12	24	36	80% McRae / 10% Delpoint / 10% Twilight
Mi-E	Midway clay loam - Eroded	10-30	12	0	12	90% Midway / 10% Badlands
MiCa	Midway-Cabbart shallow loams	5-15	12	0	12	60% Midway / 30% Cabbart / 10% Delpoint
MiDe	Midway-Delpoint silty-clay loams	5-15	12	12	24	40% Midway / 40% Delpoint / 10% Cabbart / 10% Blacksheep
NiHa	Nihill-Havre outwash areas	5-15	12	36	48	40% Nihill / 40% Havre / 10% Haverson / 10% McRae
Re	Relan loam	5-15	12	36	48	90% Relan / 10% Ringling
Ri	Ringling loam	0-15	12	0	12	90% Ringling / 5% Relan / 5% Twilight
RmT	Remmit-Twilight sandy loams	5-20	12	36	48	40% Remmit / 40% Twilight / 10% Blacksheep / 10% Delpoint
RTB	Ringling-Twilight-Barvon Complex	5-30	12	24	36	40% Ringling / 40% Twilight / 20% Barvon
SO	Saline Overflow	0-5	0	0	0	80% Saline Overflow / 10% McRae / 10% Haverson
TwB	Twilight-Blacksheep sandy loams	0-20	12	12	24	70% Twilight / 30% Blacksheep
W	Water	0	0	0	0	100% Water

Study Boundary
Tract Boundary
Disturbance Boundary
SS 12-17 2012 Soil Sample Site
SS-CB167 2011 Soil Sample Site

0 350 700 1400 2100
Feet

NAD83 Montana State Plane Feet
Aerial: 2011

OTTER CREEK COAL, LLC
P.O. BOX 7152 Billings, Mt. 59103

Baseline Report 304L

Soils Map

WESTECH
Environmental Services, Inc.
P.O. Box 6045
Helena, Montana 59604
406-442-0950

SCALE: 1"=700'
DATE: 10/02/14
DESIGN BY: CB
DRAWN BY: DC
CHECKED BY: CB
FILE: OC14 Soils Baseline.dwg

Plate 1
SHEET: 1 of 1
REV: 0