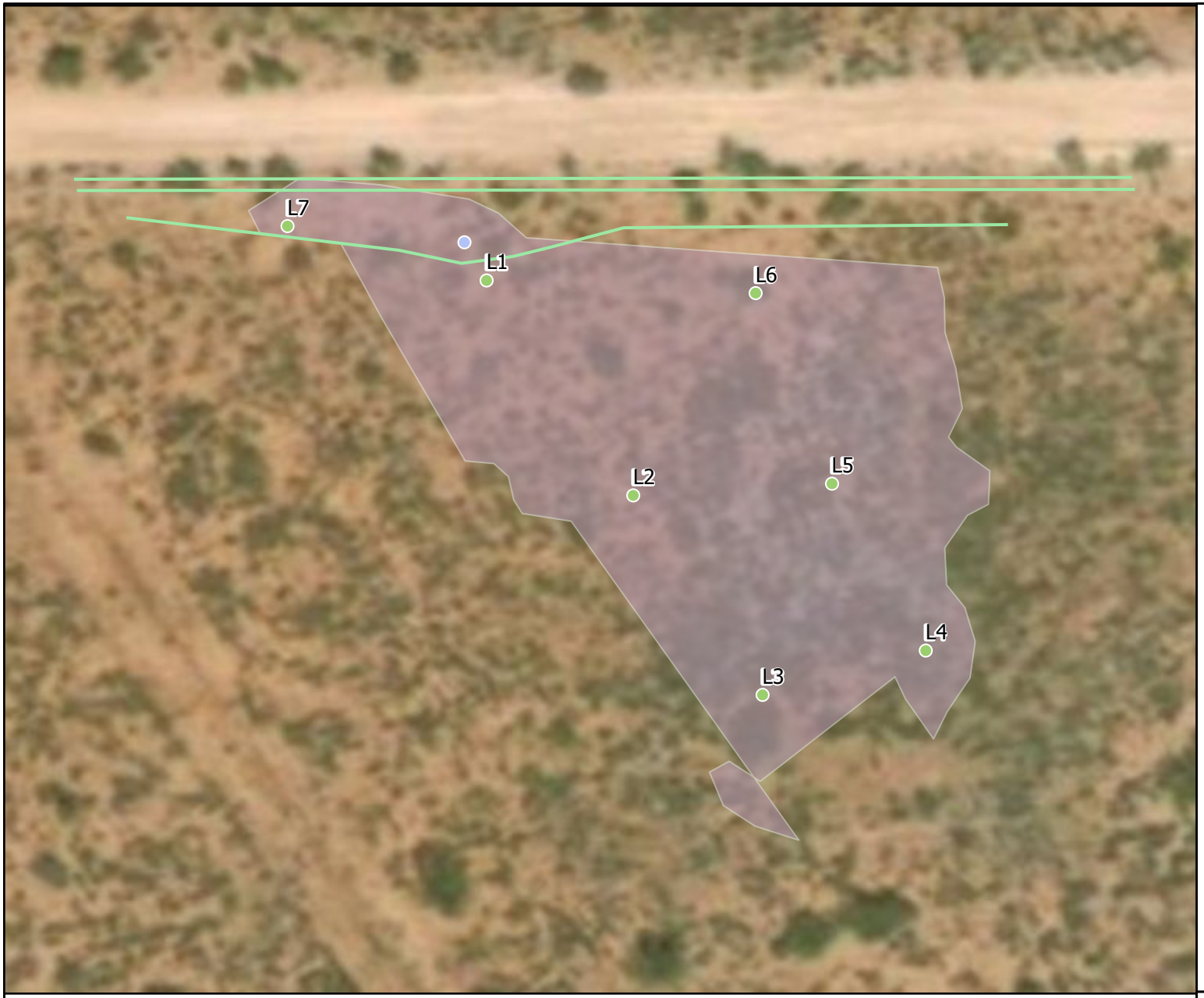

Sample Locations
Point of Release
Flowlines
Release Area

N

95
Feet

Site and Sample Locations
Cactus 167 Release
Eddy County, New Mexico

Figure 3

Revisions
By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn MRS
Date 6/7/2019
Checked
Approved

SMA

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
Serving the Southwest & Rocky Mountains

Date Saved: 6/7/2019
P:\5-XTO 2019 MSA On Call Services (5E27960)\GIS\ARCGIS\MISC_MIT.aprx

Sample ID	Sample Date	Depth (feet bgs)	Cl- mg/Kg	Cl- Field Screens mg/Kg
NMOCD Closure Criteria				
L1	6/7/2019	0.5		10655
		1		9830
		2		11540
		3		12630
L2		0.5		8000
		1		8450
		2		11320
		3		13430
L3		0.5		8870
		1		9000
		2		13000
		3		2500
L4		0.5		9030
		1		10700
		2		3220
		2.5		2120
L5		0.5		2380
		1		900
		2		<130
		2.5		<130
L6		0.5		9570
		1		8300
		2		200
		3		<130
L7		0.5		6600
		1		11500
		2		5300

"--" = Not Analyzed

Equation (1) Inputs	(LxW)/43560sqft	Equation (1) Assumptions
		1acre =43560 sqft

Area [ ] Length (ft) [ ] Width (ft) 0.7200 Acres

Equation (2) Inputs	Ksat*27,154gal/(42gal)	Equation (2) Assumptions
		1acre/inch =27,154 gal
		1bbl = 42gal

Ksat [2] in Inches per hour located at https://websoilsurvey.nrcs.usda.gov

1293.05 BBL/Acre/hr

Equation (3)	(Eq2)X(Eq1) Area adjusted volume

930.99 BBl/hr max

Equation (4) Inputs	(Eq3)X release duration (hours)+recovered volume	Equation (4) Assumptions
		recovered fluids are not in soil solution

5 BBL

0.083 Duration (hr)

82.27 BBL

[1] infiltratration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface: (National Soil Survey Handobook (USDA)

[2] (Ksat) Hydraulic Conductivity. (National Soil Survey Handobook (USDA) conductivity is often referred to as coefficient of permeability, most commonly shortened to permeability