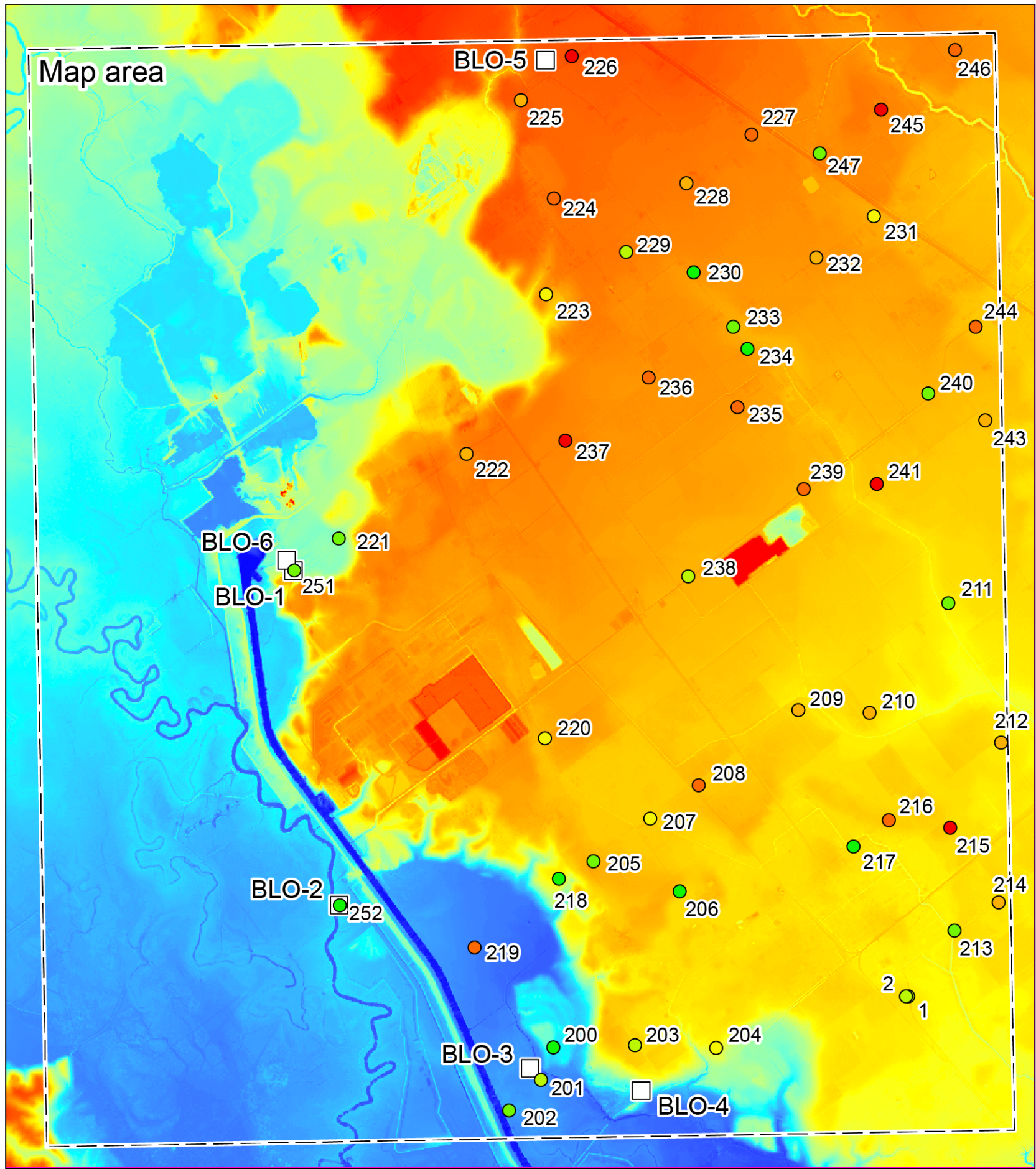


DIGITAL ELEVATION MODEL (DEM) AND TIME-DOMAIN AND FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION MEASUREMENT LOCATIONS



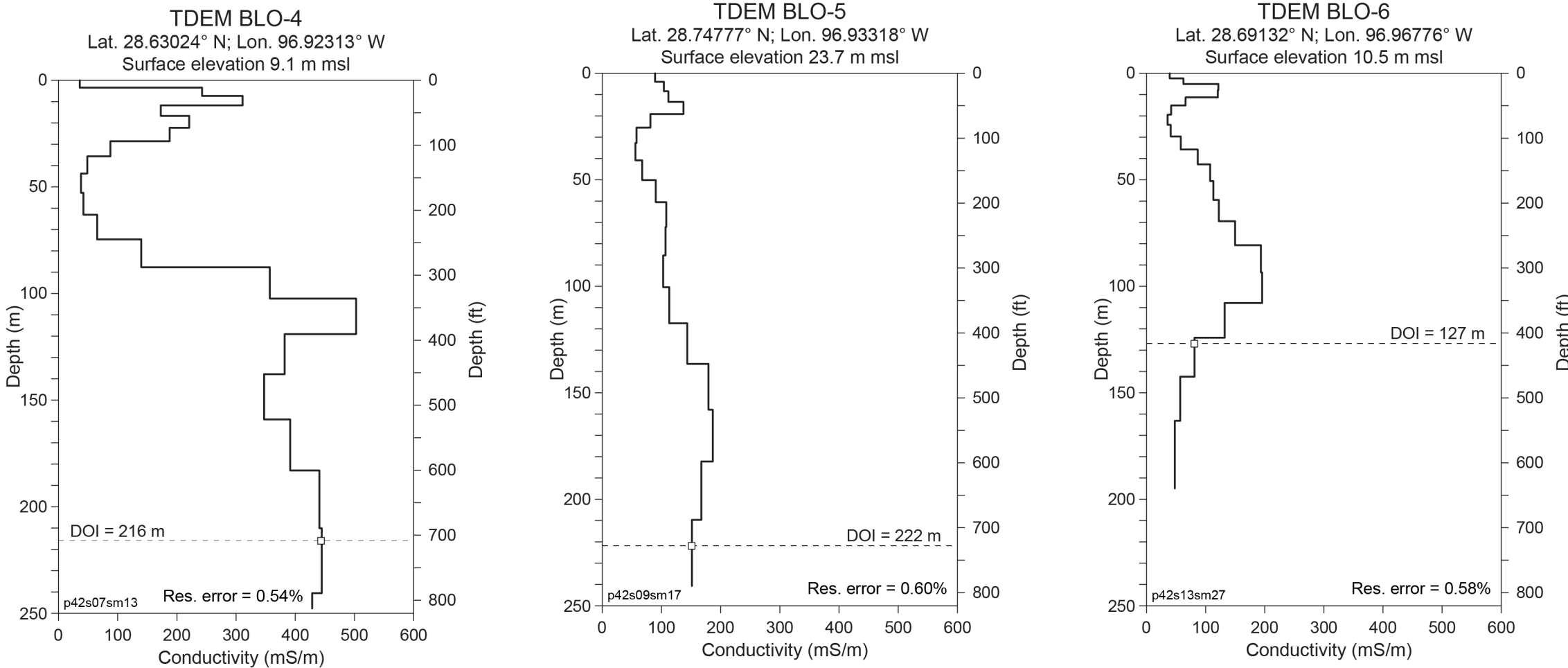
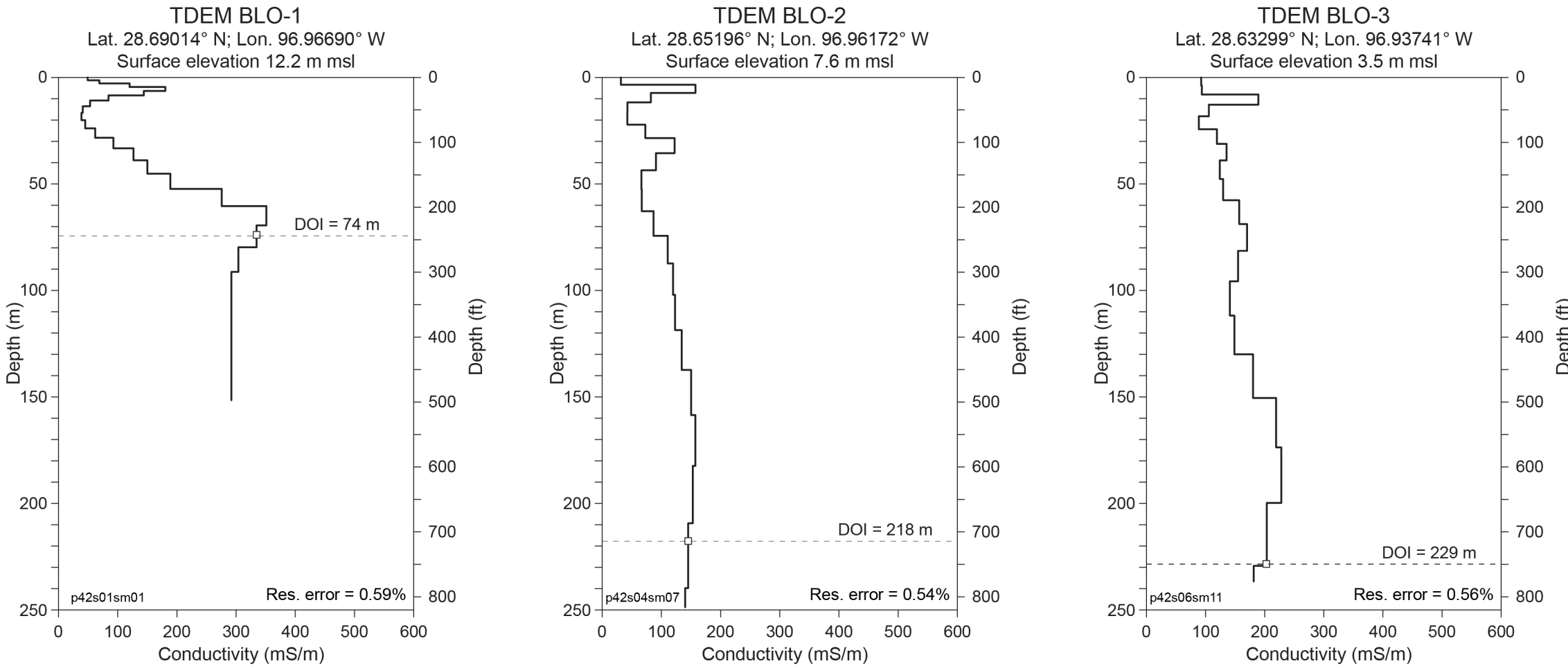
Digital elevation model (DEM) from the U.S. Geological Survey constructed from 2007 airborne lidar survey data.

FDEM (EM31)
Vertical dipole
App. cond. (mS/m)

- 160 - 187
- 136 - 154
- 116 - 131
- 107 - 115
- 88 - 99
- 68 - 81
- 41 - 63

□ TDEM sounding

BEST-FIT ELECTRICAL CONDUCTIVITY MODELS, TIME-DOMAIN ELECTROMAGNETIC SOUNDINGS



Time-domain electromagnetic (TDEM) soundings were acquired by Bureau of Economic Geology staff in January 2020 using an ABEM WalkTEM dual-moment instrument. The transmitter loops were circular with a 25.5-m radius. Transmitter current ranged from 1 (low moment) to 7 (high moment) amperes. Data were processed using SPIA software from Aarhus University. Locations shown on map. DOI: Approximate depth of investigation

FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION MEASUREMENTS

Frequency-domain electromagnetic (FDEM) induction measurements of apparent conductivity measured using Geonics EM38 and Geonics EM31 ground-conductivity meters in the horizontal dipole (HD) and vertical dipole (VD) coil orientations. Approximate exploration depth ranges are 0 to 0.75 m (EM38 HD), 0 to 1.5 m (EM38 VD), 0 to 3 m (EM31 HD), and 0 to 6 m (EM31 VD). Measurement locations are shown on map by FDEM site number.

FDEM Site	Date (yyyymmdd)	Longitude (°W, WGS84)	Latitude (°N, WGS84)	App. cond., EM38 HD (mS/m)	App. cond., EM38 VD (mS/m)	App. cond., EM31 HD (mS/m)	App. cond., EM31 VD (mS/m)
1	20121127	96.888460	28.640470	n/a	n/a	100	97
2	20121127	96.888710	28.640470	n/a	n/a	103	96
200	20191105	96.934460	28.635380	13	22	37.3	58.8
201	20191105	96.936120	28.631720	91	122	117	94
202	20191105	96.940310	28.628290	48	47	59	81
203	20191105	96.923870	28.635470	57	61	81	99
204	20191105	96.913400	28.635010	68	82	99	115
205	20191105	96.928830	28.656470	52	61	67	81
206	20191105	96.917750	28.652870	52	58	63	62
207	20191105	96.921410	28.661210	73	86	95	107
208	20191105	96.915040	28.664910	95	114	121	137
209	20191105	96.902010	28.673280	116	135	135	131
210	20191105	96.892780	28.672830	131	146	145	117
211	20191105	96.882360	28.685110	103	96	91	68
212	20191105	96.875840	28.669150	113	119	121	121
213	20191105	96.882310	28.647870	66	79	79	81
214	20191105	96.876530	28.650980	84	89	107	119
215	20191105	96.882610	28.659570	157	164	174	171
216	20191105	96.890530	28.660560	109	128	145	148
217	20191105	96.895160	28.657630	45	61	57	63
218	20191105	96.933360	28.654570	31	42	41	41
219	20191105	96.944390	28.646900	160	179	178	154
220	20191105	96.934830	28.670560	67	80	94	113
221	20191105	96.961060	28.693700	70	97	91	79
222	20191105	96.944340	28.703060	72	90	104	122
223	20191105	96.933690	28.721070	97	107	112	110
224	20191105	96.932470	28.731950	98	105	131	146
225	20191105	96.936540	28.743210	98	114	119	116
226	20191105	96.929830	28.748100	126	159	166	169
227	20191105	96.906750	28.738820	118	143	137	136
228	20191105	96.915300	28.733420	102	115	126	122
229	20191105	96.923250	28.725740	99	118	107	99
230	20191105	96.914570	28.723280	73	72	72	60
231	20191106	96.891110	28.729310	88	118	109	107
232	20191106	96.898640	28.724710	126	154	144	119
233	20191106	96.909540	28.717000	78	84	89	75
234	20191106	96.907750	28.714470	50	71	62	58
235	20191106	96.909190	28.707860	109	128	130	142
236	20191106	96.920610	28.711390	145	170	168	150
237	20191106	96.931550	28.704370	138	159	180	187
238	20191106	96.915940	28.688690	76	85	98	99
239	20191106	96.900790	28.698390	72	87	109	136
240	20191106	96.884460	28.709020	95	98	92	72
241	20191106	96.891340	28.698840	124	147	156	160
243	20191106	96.877170	28.705840	107	140	128	124
244	20191106	96.878200	28.716500	104	120	131	144
245	20191106	96.889910	28.741410	150	168	167	161
246	20191106	96.880210	28.748030	109	136	136	136
247	20191106	96.897960	28.736560	96	116	95	75
251	20200115	96.966900	28.690140	73	68	68	70
252	20200115	96.961720	28.651960	42	45	52	54