

C

APPENDIX C

2005 Aquatic Plant Survey Data

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)		Sampled with: Rake pole (P), rake rope (R), visual (V)		<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria spiralis</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsonii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium angustifolium</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sagittaria angustifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>
39	9	S	P																									
40	4	S	P																									
41	2	S	P				1	1						1			1			1								
42	4	S	P														1											
43	6	S	P						1																			
44	11	S	P																									
45	19	Depth Check																										
46	16	Depth Check																										
47	15	Depth Check																										
48	14	S	R																									
49	14	S	R																									
50	8	S	P																									
51	6	S	P																									
52	1	S	V				1																					
53	6	S	P					1					1	1														
54	7	S	P				1	1																				
55	8	S	P																									
56	13	S	R																									
57	16	Depth Check																										
58	14	S	R																									
59	14	S	R																									
60	14	S	R																									
61	14	S	P																									
62	13	S	P																									
63	10	S	P																									
64	8	S	P																									
65	2	S	P				1	1									1											
66	5	S	P											1	1													
67	7	S	P																									
68	11	S	R											1														
69	14	S	R																									
70	13	Depth Check																										
71	14	Depth Check																										
72	14	Depth Check																										
73	13	Depth Check																										
74	12	S	R																									
75	8	R	P																									
76	7	R	P																									

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)	Sampled with: Rake pole (P), rake rope (R), visual (V)	<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria americana</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsonii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium angustifolium</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sagittaria angustifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>
77	9	M	P																							
78	8	S	P																							
79	0.5	S	V																							
80	0.5	R	V																							
81	7	S	P																							
82	13	Depth Check																								
83	13	Depth Check																								
84	13	Depth Check																								
85	13	Depth Check																								
86	13	Depth Check																								
87	14	Depth Check																								
88	7	S	P																							
89	7	S	P																							
90	7	S	P																							
91	8	M	P																							
92	6	M	P																							
93	5	S	P																							
94	2	R	P																							
95	12	S	R																							
96	12	S	R																							
97	14	Depth Check																								
98	14	Depth Check																								
99	14	Depth Check																								
100	14	Depth Check																								
101	12	S	R																							
102	8	S	P																							
103	8	S	P																							
104	8	M	P																							
105	8	M	P																							
106	6	M	P																							
107	2	S	V																							
108	8	S	P																							
109	12	S	R																							
110	13	Depth Check																								
111	13	Depth Check																								
112	13	Depth Check																								
113	14	Depth Check																								
114	13	Depth Check																								

1

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)		Sampled with: Rake pole (P), rake rope (R), visual (V)		<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria spiralis</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsonii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium angustifolium</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sagittaria angustifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>	
115	14	Depth Check																											
116	6	S	P																										
117	3	R	P																										
118	0.5	R	V																										
119	5	M	P																										
120	3	M	P																										
121																													
122	12	S	R						1																				
123	12	Depth Check																											
124	12	Depth Check																											
125	12	Depth Check																											
126	13	Depth Check																											
127	13	Depth Check																											
128	13	Depth Check																											
129	13	Depth Check																											
130	3	R	P																										
131	2	R	P																										
132	12	S	R																										
133																													
134																													
135																													
136																													
137																													
138	11	Depth Check																											
139																													
140	4	S	P																										
141	9	S	P																										
142	12	S	R																										
143																													
144																													
145																													
146																													
147																													
148	13	Depth Check																											
149	8	S	P																										
150	6	S	P																										
151	1	R	P																										
152	1	S	P																										

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)	Sampled with: Rake pole (P), rake rope (R), visual (V)	Myriophyllum spicatum	Nymphaea odorata	Nuphar variagata	Vallisneria spiralis	Elodea canadensis	Ceratophyllum demersum	Najas flexilis	Chara sp.	Potamogeton zostriformis	Potamogeton amplifolius	Potamogeton pumilus	Potamogeton richardsonii	Potamogeton robinsonii	Potamogeton spirillus	Sparganium angustifolium	Heteranthera dubia	Myriophyllum sibiricum	Sagittaria angustifolia	Typha latifolia	Myriophyllum heterophyllum	Carex lacustris	Lythrum salicaria	Lemna minor	
153	0.5	S	P																								
154	0.5	S	P																								
155	12	S	R																								
156																											
157																											
158																											
159																											
160																											
161																											
162	12	S	R																								
163	12	S	R																								
164	8	S	P																								
165	7	R	P																								
166	10	S	P																								
167	11	S	R																								
168	1	S	P																								
169	3	S	P																								
170	7	S	P																								
171	2	R	P																								
172	13	S	R																								
173																											
174																											
175																											
176																											
177																											
178																											
179	14	Depth Check																									
180	14	Depth Check																									
181	12	S	R																								
182	14	Depth Check																									
183	12	S	R																								
184	12	S	R																								
185	6	S	P																								
186	8	S	P																								
187	7	R	P																								
188	8	S	P																								
189	13	S	R																								
190																											

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)	Sampled with: Rake pole (P), rake rope (R), visual (V)	<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria americana</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium angustifolium</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sagittaria angustifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>	
191																											
192																											
193	12	S	R																								
194																											
195																											
196																											
197																											
198																											
199																											
200																											
201	13	S	R																								
202	8	R	P																								
203	6	S	P																								
204	9	S	P																								
205	12	S	R																								
206																											
207																											
208																											
209																											
210																											
211																											
212																											
213																											
214																											
215																											
216																											
217																											
218	13	S	R																								
219	13	S	R																								
220	6	S	P																								
221	0.5	S	V																								
222	2	S	P																								
223	7	R	P																								
224	14	Depth Check																									
225																											
226																											
227																											
228																											

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229																											
230																											
231																											
232																											
233																											
234																											
235																											
236																											
237																											
238	12	S	R																								
239	9	S	P																								
240	0.5	R	V																								
241	6	S	P																								
242	12	S	R																								
243																											
244																											
245																											
246																											
247																											
248																											
249																											
250																											
251																											
252	14	Depth Check																									
253	14	Depth Check																									
254	11	S	R																								
255	12	S	R																								
256	13	S	R																								
257	10	S	R																								
258	6	S	P																								
259	0.5	S	P																								
260	11	S	R																								
261																											
262																											
263																											
264																											
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266																											

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267																												
268	28	Depth Check																										
269	23	Depth Check																										
270	13	S	R																									
271	8	S	P																									
272	2	R	P																									
273	6	S	P																									
274	8	S	P																									
275	8	S	P																									
276	0.5	S	V																									
277	7	R	P																									
278	14	Depth Check																										
279																												
280																												
281																												
282																												
283																												
284																												
285																												
286	24	Depth Check																										
287	4	R	P																									
288	3	R	P																									
289	2	R	P																									
290	12	S	R																									
291																												
292																												
293																												
294																												
295																												
296																												
297																												
298	12	S	R																									
299	3	R	P																									
300	3	S	P	1							1			1														
301	6	S	P				1																					
302	12	S	R																									
303																												
304																												

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)		Sampled with: Rake pole (P), rake rope (R), visual (V)		<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria americana</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium epiphydus</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sparganium angustifolia</i>	<i>Sagittaria latifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>	
305																														
306																														
307																														
308																														
309	12	S	R																											
310	6	R	P																											
311	2	S	P															1												
312	5	S	P																											
313	9	S	P																											
314	14	Depth Check																												
315																														
316																														
317																														
318	12	R	R																											
319	8	R	P																											
320	0.5	S	P																											
321	9	S	P																											
322	14	Depth Check																												
323																														
324																														
325	13	Depth Check																												
326	8	R	P																											
327	7	S	R					1										1												
328	13	S	R																											
329																														
330																														
331	14	Depth Check																												
332	10	R	P																											
333	7	S	P										1																	
334	13	S	P																											
335																														
336																														
337	12	S	R																											
338																														
339	5	S	R																											
340	13	S	R																											
341																														
342																														

Sampling Point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)	Sampled with: Rake pole (P), rake rope (R), visual (V)	<i>Myriophyllum spicatum</i>	<i>Nymphaea odorata</i>	<i>Nuphar variagata</i>	<i>Vallisneria americana</i>	<i>Elodea canadensis</i>	<i>Ceratophyllum demersum</i>	<i>Najas flexilis</i>	<i>Chara sp.</i>	<i>Potamogeton zostriformis</i>	<i>Potamogeton amplifolius</i>	<i>Potamogeton pumilus</i>	<i>Potamogeton richardsonii</i>	<i>Potamogeton robinsii</i>	<i>Potamogeton spirillus</i>	<i>Sparganium angustifolium</i>	<i>Heteranthera dubia</i>	<i>Myriophyllum sibiricum</i>	<i>Sagittaria angustifolia</i>	<i>Typha latifolia</i>	<i>Myriophyllum heterophyllum</i>	<i>Carex lacustris</i>	<i>Lythrum salicaria</i>	<i>Lemna minor</i>
343	12	S	R																							
344	6	S	P																							
345	9	R	P																							
346	13	S	R																							
347	14	Depth Check																								
348	12	S	R																							
349	2	R	P																							
350	8	R	P																							
351	12	R	R																							
352	12	R	R																							
353	8	R	P																							
354	12	R	R																							
355	6	R	P																							
356	5	S	P																							
357	16	S	R																							
358	20	S	R																							
359	10	S	R																							
360	8	S	P																							
361	16	S	R																							
362	18	Depth Check																								
363	13	S	R																							
364	10	S	R																							
365	6	R	P				1					1														
366	5	S	P	1			1		1		1		1		1				1							
367	2	S	P	1		1	1		1	1	1		1													
368	9	S	P																							
369	15	Depth Check																								
370	14	Depth Check																								
371	12	S	R																							
372	12	S	R																							
373	11	M	R																							
374	8	M	P																							
375	2	S	P																							
376	5	S	R				1					1														
377	10	S	P																							
378	12	S	R																							
379	13	Depth Check																								
380	11	S	R																							

Sampling point	Depth (ft)	Dominant sediment type: (M=Muck, S=Sand, R=Rock)		Sampled with: Rake pole (P), rake rope (R), visual (V)	Myriophyllum spicatum	Nymphaea odorata	Nuphar variagata	Vallisneria spiralis	Elodea canadensis	Ceratophyllum demersum	Najas flexilis	Chara sp.	Potamogeton zostriformis	Potamogeton amplifolius	Potamogeton pumilus	Potamogeton richardsonii	Potamogeton robinsonii	Potamogeton spirillus	Sparganium angustifolium	Heteranthera dubia	Myriophyllum sibiricum	Sparganium angustifolium	Sagittaria latifolia	Typha latifolia	Myriophyllum heterophyllum	Carex lacustris	Lythrum salicaria	Lemna minor
381	12	S	R																									
382	10	M	R	2																								
383	9	M	R																									
384	6	M	P																									
385	2	M	P	1				1				1			1	1												
386	8	S	P																									
387	9	S	P																									
388	9	S	P					1																				
389	9	S	P										1															
390	9	S	P																									
391	9	S	P																									
392	8	S	P	1																								
393	6	S	P																									
394	4	S	P														1											
395	2	S	P					1	1	1		1				1			1									
396	1	S	P			1	1	1	1	1																		
397	9	S	P																									
398	2	S	P	1				1									1											
399	1	S	P	1																1					1	1		
400	1	S	P				1	1		1						1												
401	6	S	P												1													
402	7	S	P	1											1													
403	7	S	P																									
404	6	S	P				1	1				1			1													
405	4	S	P	1											1				1									
406	3	S	P			1			1								1			1				1				1
407	3	S	P									1																
408	4	S	P														1											
409	2	S	P																									
410	4	S	P							1											1							
411	1	S	P	2	1	1										1		1				1						
412	1	S	P			1																1		1		1		1
413	3	S	P		1		1	1			1				1													
414	4	S	P						1	1	1	1																
415	3	S	P																									
416	1	S	P			1	1	1		1																		

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
1	-89.24131922	45.94246229	89° 14' 28.75" W	45° 56' 32.86" N
2	-89.24073872	45.94245843	89° 14' 26.66" W	45° 56' 32.85" N
3	-89.24132474	45.94205730	89° 14' 28.77" W	45° 56' 31.41" N
4	-89.24074425	45.94205345	89° 14' 26.68" W	45° 56' 31.39" N
5	-89.24016375	45.94204959	89° 14' 24.59" W	45° 56' 31.38" N
6	-89.24133027	45.94165232	89° 14' 28.79" W	45° 56' 29.95" N
7	-89.24074978	45.94164846	89° 14' 26.70" W	45° 56' 29.93" N
8	-89.24016928	45.94164460	89° 14' 24.61" W	45° 56' 29.92" N
9	-89.24075530	45.94124348	89° 14' 26.72" W	45° 56' 28.48" N
10	-89.24017482	45.94123962	89° 14' 24.63" W	45° 56' 28.46" N
11	-89.23959433	45.94123576	89° 14' 22.54" W	45° 56' 28.45" N
12	-89.23901384	45.94123189	89° 14' 20.45" W	45° 56' 28.43" N
13	-89.23843336	45.94122803	89° 14' 18.36" W	45° 56' 28.42" N
14	-89.24076083	45.94083849	89° 14' 26.74" W	45° 56' 27.02" N
15	-89.24018035	45.94083464	89° 14' 24.65" W	45° 56' 27.00" N
16	-89.23959987	45.94083077	89° 14' 22.56" W	45° 56' 26.99" N
17	-89.23901938	45.94082691	89° 14' 20.47" W	45° 56' 26.98" N
18	-89.23843890	45.94082304	89° 14' 18.38" W	45° 56' 26.96" N
19	-89.23785842	45.94081917	89° 14' 16.29" W	45° 56' 26.95" N
20	-89.23727794	45.94081530	89° 14' 14.20" W	45° 56' 26.94" N
21	-89.24018588	45.94042965	89° 14' 24.67" W	45° 56' 25.55" N
22	-89.23960540	45.94042579	89° 14' 22.58" W	45° 56' 25.53" N
23	-89.23902492	45.94042193	89° 14' 20.49" W	45° 56' 25.52" N
24	-89.23844445	45.94041806	89° 14' 18.40" W	45° 56' 25.51" N
25	-89.23786397	45.94041419	89° 14' 16.31" W	45° 56' 25.49" N
26	-89.23728349	45.94041032	89° 14' 14.22" W	45° 56' 25.48" N
27	-89.23670301	45.94040644	89° 14' 12.13" W	45° 56' 25.46" N
28	-89.23612253	45.94040256	89° 14' 10.04" W	45° 56' 25.45" N
29	-89.23554205	45.94039868	89° 14' 7.95" W	45° 56' 25.44" N
30	-89.24077189	45.94002853	89° 14' 26.78" W	45° 56' 24.10" N
31	-89.24019141	45.94002467	89° 14' 24.69" W	45° 56' 24.09" N
32	-89.23961094	45.94002081	89° 14' 22.60" W	45° 56' 24.07" N
33	-89.23903046	45.94001694	89° 14' 20.51" W	45° 56' 24.06" N
34	-89.23844999	45.94001308	89° 14' 18.42" W	45° 56' 24.05" N
35	-89.23786952	45.94000921	89° 14' 16.33" W	45° 56' 24.03" N
36	-89.23728904	45.94000533	89° 14' 14.24" W	45° 56' 24.02" N
37	-89.23670857	45.94000146	89° 14' 12.15" W	45° 56' 24.01" N
38	-89.23612809	45.93999758	89° 14' 10.06" W	45° 56' 23.99" N
39	-89.23554762	45.93999370	89° 14' 7.97" W	45° 56' 23.98" N
40	-89.23496715	45.93998981	89° 14' 5.88" W	45° 56' 23.96" N
41	-89.24019695	45.93961968	89° 14' 24.71" W	45° 56' 22.63" N
42	-89.23961648	45.93961582	89° 14' 22.62" W	45° 56' 22.62" N
43	-89.23903600	45.93961196	89° 14' 20.53" W	45° 56' 22.60" N
44	-89.23845553	45.93960809	89° 14' 18.44" W	45° 56' 22.59" N
45	-89.23787506	45.93960422	89° 14' 16.35" W	45° 56' 22.58" N
46	-89.23729459	45.93960035	89° 14' 14.26" W	45° 56' 22.56" N
47	-89.23671412	45.93959647	89° 14' 12.17" W	45° 56' 22.55" N
48	-89.23613366	45.93959259	89° 14' 10.08" W	45° 56' 22.53" N
49	-89.23555319	45.93958871	89° 14' 7.99" W	45° 56' 22.52" N
50	-89.23497272	45.93958483	89° 14' 5.90" W	45° 56' 22.51" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
51	-89.23439225	45.93958094	89° 14' 3.81" W	45° 56' 22.49" N
52	-89.23381178	45.93957705	89° 14' 1.72" W	45° 56' 22.48" N
53	-89.24020248	45.93921470	89° 14' 24.73" W	45° 56' 21.17" N
54	-89.23962201	45.93921084	89° 14' 22.64" W	45° 56' 21.16" N
55	-89.23904155	45.93920697	89° 14' 20.55" W	45° 56' 21.15" N
56	-89.23846108	45.93920311	89° 14' 18.46" W	45° 56' 21.13" N
57	-89.23788061	45.93919924	89° 14' 16.37" W	45° 56' 21.12" N
58	-89.23730015	45.93919536	89° 14' 14.28" W	45° 56' 21.10" N
59	-89.23671968	45.93919149	89° 14' 12.19" W	45° 56' 21.09" N
60	-89.23613922	45.93918761	89° 14' 10.10" W	45° 56' 21.08" N
61	-89.23555875	45.93918373	89° 14' 8.01" W	45° 56' 21.06" N
62	-89.23497829	45.93917984	89° 14' 5.92" W	45° 56' 21.05" N
63	-89.23439782	45.93917596	89° 14' 3.83" W	45° 56' 21.03" N
64	-89.23381736	45.93917207	89° 14' 1.74" W	45° 56' 21.02" N
65	-89.23323689	45.93916817	89° 13' 59.65" W	45° 56' 21.01" N
66	-89.24020801	45.93880971	89° 14' 24.75" W	45° 56' 19.71" N
67	-89.23962755	45.93880585	89° 14' 22.66" W	45° 56' 19.70" N
68	-89.23904709	45.93880199	89° 14' 20.57" W	45° 56' 19.69" N
69	-89.23846662	45.93879812	89° 14' 18.48" W	45° 56' 19.67" N
70	-89.23788616	45.93879425	89° 14' 16.39" W	45° 56' 19.66" N
71	-89.23730570	45.93879038	89° 14' 14.30" W	45° 56' 19.65" N
72	-89.23672524	45.93878651	89° 14' 12.21" W	45° 56' 19.63" N
73	-89.23614478	45.93878263	89° 14' 10.12" W	45° 56' 19.62" N
74	-89.23556432	45.93877875	89° 14' 8.03" W	45° 56' 19.60" N
75	-89.23498386	45.93877486	89° 14' 5.94" W	45° 56' 19.59" N
76	-89.23440340	45.93877097	89° 14' 3.85" W	45° 56' 19.58" N
77	-89.23382293	45.93876708	89° 14' 1.76" W	45° 56' 19.56" N
78	-89.23324247	45.93876319	89° 13' 59.67" W	45° 56' 19.55" N
79	-89.23266201	45.93875929	89° 13' 57.58" W	45° 56' 19.53" N
80	-89.24021354	45.93840473	89° 14' 24.77" W	45° 56' 18.26" N
81	-89.23963308	45.93840087	89° 14' 22.68" W	45° 56' 18.24" N
82	-89.23905263	45.93839701	89° 14' 20.59" W	45° 56' 18.23" N
83	-89.23847217	45.93839314	89° 14' 18.50" W	45° 56' 18.22" N
84	-89.23789171	45.93838927	89° 14' 16.41" W	45° 56' 18.20" N
85	-89.23731125	45.93838540	89° 14' 14.32" W	45° 56' 18.19" N
86	-89.23673080	45.93838152	89° 14' 12.23" W	45° 56' 18.17" N
87	-89.23615034	45.93837764	89° 14' 10.14" W	45° 56' 18.16" N
88	-89.23556988	45.93837376	89° 14' 8.05" W	45° 56' 18.15" N
89	-89.23498943	45.93836988	89° 14' 5.96" W	45° 56' 18.13" N
90	-89.23440897	45.93836599	89° 14' 3.87" W	45° 56' 18.12" N
91	-89.23382851	45.93836210	89° 14' 1.78" W	45° 56' 18.10" N
92	-89.23324806	45.93835821	89° 13' 59.69" W	45° 56' 18.09" N
93	-89.23266760	45.93835431	89° 13' 57.60" W	45° 56' 18.08" N
94	-89.23963862	45.93799589	89° 14' 22.70" W	45° 56' 16.79" N
95	-89.23905817	45.93799202	89° 14' 20.61" W	45° 56' 16.77" N
96	-89.23847771	45.93798816	89° 14' 18.52" W	45° 56' 16.76" N
97	-89.23789726	45.93798429	89° 14' 16.43" W	45° 56' 16.74" N
98	-89.23731681	45.93798041	89° 14' 14.34" W	45° 56' 16.73" N
99	-89.23673635	45.93797654	89° 14' 12.25" W	45° 56' 16.72" N
100	-89.23615590	45.93797266	89° 14' 10.16" W	45° 56' 16.70" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
101	-89.23557545	45.93796878	89° 14' 8.07" W	45° 56' 16.69" N
102	-89.23499500	45.93796489	89° 14' 5.98" W	45° 56' 16.67" N
103	-89.23441454	45.93796101	89° 14' 3.89" W	45° 56' 16.66" N
104	-89.23383409	45.93795712	89° 14' 1.80" W	45° 56' 16.65" N
105	-89.23325364	45.93795322	89° 13' 59.71" W	45° 56' 16.63" N
106	-89.23267319	45.93794933	89° 13' 57.62" W	45° 56' 16.62" N
107	-89.23209273	45.93794543	89° 13' 55.53" W	45° 56' 16.60" N
108	-89.23964415	45.93759090	89° 14' 22.72" W	45° 56' 15.33" N
109	-89.23906371	45.93758704	89° 14' 20.63" W	45° 56' 15.31" N
110	-89.23848326	45.93758317	89° 14' 18.54" W	45° 56' 15.30" N
111	-89.23790281	45.93757930	89° 14' 16.45" W	45° 56' 15.29" N
112	-89.23732236	45.93757543	89° 14' 14.36" W	45° 56' 15.27" N
113	-89.23674191	45.93757155	89° 14' 12.27" W	45° 56' 15.26" N
114	-89.23616146	45.93756768	89° 14' 10.18" W	45° 56' 15.24" N
115	-89.23558101	45.93756379	89° 14' 8.09" W	45° 56' 15.23" N
116	-89.23500056	45.93755991	89° 14' 6.00" W	45° 56' 15.22" N
117	-89.23442012	45.93755602	89° 14' 3.91" W	45° 56' 15.20" N
118	-89.23383967	45.93755213	89° 14' 1.82" W	45° 56' 15.19" N
119	-89.23325922	45.93754824	89° 13' 59.73" W	45° 56' 15.17" N
120	-89.23267877	45.93754434	89° 13' 57.64" W	45° 56' 15.16" N
121	-89.24023014	45.93718978	89° 14' 24.83" W	45° 56' 13.88" N
122	-89.23964969	45.93718592	89° 14' 22.74" W	45° 56' 13.87" N
123	-89.23906925	45.93718205	89° 14' 20.65" W	45° 56' 13.86" N
124	-89.23848880	45.93717819	89° 14' 18.56" W	45° 56' 13.84" N
125	-89.23790836	45.93717432	89° 14' 16.47" W	45° 56' 13.83" N
126	-89.23732791	45.93717044	89° 14' 14.38" W	45° 56' 13.81" N
127	-89.23674747	45.93716657	89° 14' 12.29" W	45° 56' 13.80" N
128	-89.23616702	45.93716269	89° 14' 10.20" W	45° 56' 13.79" N
129	-89.23558658	45.93715881	89° 14' 8.11" W	45° 56' 13.77" N
130	-89.23500613	45.93715493	89° 14' 6.02" W	45° 56' 13.76" N
131	-89.24023567	45.93678479	89° 14' 24.85" W	45° 56' 12.43" N
132	-89.23965523	45.93678093	89° 14' 22.76" W	45° 56' 12.41" N
133	-89.23907478	45.93677707	89° 14' 20.67" W	45° 56' 12.40" N
134	-89.23849434	45.93677320	89° 14' 18.58" W	45° 56' 12.38" N
135	-89.23791390	45.93676933	89° 14' 16.49" W	45° 56' 12.37" N
136	-89.23733346	45.93676546	89° 14' 14.40" W	45° 56' 12.36" N
137	-89.23675302	45.93676159	89° 14' 12.31" W	45° 56' 12.34" N
138	-89.23617258	45.93675771	89° 14' 10.22" W	45° 56' 12.33" N
139	-89.23559214	45.93675383	89° 14' 8.13" W	45° 56' 12.31" N
140	-89.23501170	45.93674994	89° 14' 6.04" W	45° 56' 12.30" N
141	-89.24024120	45.93637981	89° 14' 24.87" W	45° 56' 10.97" N
142	-89.23966076	45.93637595	89° 14' 22.78" W	45° 56' 10.95" N
143	-89.23908032	45.93637208	89° 14' 20.69" W	45° 56' 10.94" N
144	-89.23849989	45.93636822	89° 14' 18.60" W	45° 56' 10.93" N
145	-89.23791945	45.93636435	89° 14' 16.51" W	45° 56' 10.91" N
146	-89.23733902	45.93636048	89° 14' 14.42" W	45° 56' 10.90" N
147	-89.23675858	45.93635660	89° 14' 12.33" W	45° 56' 10.88" N
148	-89.23617814	45.93635272	89° 14' 10.24" W	45° 56' 10.87" N
149	-89.23559771	45.93634884	89° 14' 8.15" W	45° 56' 10.86" N
150	-89.23501727	45.93634496	89° 14' 6.06" W	45° 56' 10.84" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
151	-89.23385640	45.93633718	89° 14' 1.88" W	45° 56' 10.81" N
152	-89.23327597	45.93633329	89° 13' 59.79" W	45° 56' 10.80" N
153	-89.24256846	45.93599024	89° 14' 33.25" W	45° 56' 9.56" N
154	-89.24082716	45.93597868	89° 14' 26.98" W	45° 56' 9.52" N
155	-89.24024673	45.93597482	89° 14' 24.89" W	45° 56' 9.51" N
156	-89.23966630	45.93597096	89° 14' 22.80" W	45° 56' 9.50" N
157	-89.23908586	45.93596710	89° 14' 20.71" W	45° 56' 9.48" N
158	-89.23850543	45.93596323	89° 14' 18.62" W	45° 56' 9.47" N
159	-89.23792500	45.93595936	89° 14' 16.53" W	45° 56' 9.45" N
160	-89.23734457	45.93595549	89° 14' 14.44" W	45° 56' 9.44" N
161	-89.23676414	45.93595162	89° 14' 12.35" W	45° 56' 9.43" N
162	-89.23618370	45.93594774	89° 14' 10.26" W	45° 56' 9.41" N
163	-89.23560327	45.93594386	89° 14' 8.17" W	45° 56' 9.40" N
164	-89.23502284	45.93593997	89° 14' 6.08" W	45° 56' 9.38" N
165	-89.23444241	45.93593609	89° 14' 3.99" W	45° 56' 9.37" N
166	-89.23386198	45.93593220	89° 14' 1.90" W	45° 56' 9.36" N
167	-89.23328155	45.93592830	89° 13' 59.81" W	45° 56' 9.34" N
168	-89.23270112	45.93592441	89° 13' 57.72" W	45° 56' 9.33" N
169	-89.24257397	45.93558525	89° 14' 33.27" W	45° 56' 8.11" N
170	-89.24199354	45.93558140	89° 14' 31.18" W	45° 56' 8.09" N
171	-89.24083269	45.93557370	89° 14' 27.00" W	45° 56' 8.07" N
172	-89.24025226	45.93556984	89° 14' 24.91" W	45° 56' 8.05" N
173	-89.23967183	45.93556598	89° 14' 22.82" W	45° 56' 8.04" N
174	-89.23909140	45.93556212	89° 14' 20.73" W	45° 56' 8.02" N
175	-89.23851097	45.93555825	89° 14' 18.64" W	45° 56' 8.01" N
176	-89.23793055	45.93555438	89° 14' 16.55" W	45° 56' 8.00" N
177	-89.23735012	45.93555051	89° 14' 14.46" W	45° 56' 7.98" N
178	-89.23676969	45.93554663	89° 14' 12.37" W	45° 56' 7.97" N
179	-89.23618926	45.93554276	89° 14' 10.28" W	45° 56' 7.95" N
180	-89.23560884	45.93553887	89° 14' 8.19" W	45° 56' 7.94" N
181	-89.23502841	45.93553499	89° 14' 6.10" W	45° 56' 7.93" N
182	-89.23444798	45.93553110	89° 14' 4.01" W	45° 56' 7.91" N
183	-89.23386756	45.93552721	89° 14' 1.92" W	45° 56' 7.90" N
184	-89.23328713	45.93552332	89° 13' 59.83" W	45° 56' 7.88" N
185	-89.23270670	45.93551942	89° 13' 57.74" W	45° 56' 7.87" N
186	-89.24199906	45.93517642	89° 14' 31.20" W	45° 56' 6.64" N
187	-89.24141864	45.93517257	89° 14' 29.11" W	45° 56' 6.62" N
188	-89.24083821	45.93516871	89° 14' 27.02" W	45° 56' 6.61" N
189	-89.24025779	45.93516486	89° 14' 24.93" W	45° 56' 6.59" N
190	-89.23967737	45.93516100	89° 14' 22.84" W	45° 56' 6.58" N
191	-89.23909694	45.93515713	89° 14' 20.75" W	45° 56' 6.57" N
192	-89.23851652	45.93515327	89° 14' 18.66" W	45° 56' 6.55" N
193	-89.23793609	45.93514940	89° 14' 16.57" W	45° 56' 6.54" N
194	-89.23735567	45.93514552	89° 14' 14.48" W	45° 56' 6.52" N
195	-89.23677525	45.93514165	89° 14' 12.39" W	45° 56' 6.51" N
196	-89.23619482	45.93513777	89° 14' 10.30" W	45° 56' 6.50" N
197	-89.23561440	45.93513389	89° 14' 8.21" W	45° 56' 6.48" N
198	-89.23503398	45.93513001	89° 14' 6.12" W	45° 56' 6.47" N
199	-89.23445356	45.93512612	89° 14' 4.03" W	45° 56' 6.45" N
200	-89.23387313	45.93512223	89° 14' 1.94" W	45° 56' 6.44" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
201	-89.23329271	45.93511834	89° 13' 59.85" W	45° 56' 6.43" N
202	-89.23271229	45.93511444	89° 13' 57.76" W	45° 56' 6.41" N
203	-89.24200458	45.93477143	89° 14' 31.22" W	45° 56' 5.18" N
204	-89.24142416	45.93476758	89° 14' 29.13" W	45° 56' 5.16" N
205	-89.24084374	45.93476373	89° 14' 27.04" W	45° 56' 5.15" N
206	-89.24026332	45.93475987	89° 14' 24.95" W	45° 56' 5.14" N
207	-89.23968290	45.93475601	89° 14' 22.86" W	45° 56' 5.12" N
208	-89.23910248	45.93475215	89° 14' 20.77" W	45° 56' 5.11" N
209	-89.23852206	45.93474828	89° 14' 18.68" W	45° 56' 5.09" N
210	-89.23794164	45.93474441	89° 14' 16.59" W	45° 56' 5.08" N
211	-89.23736122	45.93474054	89° 14' 14.50" W	45° 56' 5.07" N
212	-89.23678080	45.93473667	89° 14' 12.41" W	45° 56' 5.05" N
213	-89.23620038	45.93473279	89° 14' 10.32" W	45° 56' 5.04" N
214	-89.23561997	45.93472891	89° 14' 8.23" W	45° 56' 5.02" N
215	-89.23503955	45.93472502	89° 14' 6.14" W	45° 56' 5.01" N
216	-89.23445913	45.93472114	89° 14' 4.05" W	45° 56' 5.00" N
217	-89.23387871	45.93471725	89° 14' 1.96" W	45° 56' 4.98" N
218	-89.23329829	45.93471335	89° 13' 59.87" W	45° 56' 4.97" N
219	-89.23271787	45.93470946	89° 13' 57.78" W	45° 56' 4.95" N
220	-89.23213746	45.93470556	89° 13' 55.69" W	45° 56' 4.94" N
221	-89.23155704	45.93470166	89° 13' 53.61" W	45° 56' 4.93" N
222	-89.24201010	45.93436645	89° 14' 31.24" W	45° 56' 3.72" N
223	-89.24142968	45.93436260	89° 14' 29.15" W	45° 56' 3.71" N
224	-89.24084927	45.93435874	89° 14' 27.06" W	45° 56' 3.69" N
225	-89.24026885	45.93435489	89° 14' 24.97" W	45° 56' 3.68" N
226	-89.23968844	45.93435103	89° 14' 22.88" W	45° 56' 3.66" N
227	-89.23910802	45.93434716	89° 14' 20.79" W	45° 56' 3.65" N
228	-89.23852760	45.93434330	89° 14' 18.70" W	45° 56' 3.64" N
229	-89.23794719	45.93433943	89° 14' 16.61" W	45° 56' 3.62" N
230	-89.23736677	45.93433556	89° 14' 14.52" W	45° 56' 3.61" N
231	-89.23678636	45.93433168	89° 14' 12.43" W	45° 56' 3.59" N
232	-89.23620594	45.93432780	89° 14' 10.34" W	45° 56' 3.58" N
233	-89.23562553	45.93432392	89° 14' 8.25" W	45° 56' 3.57" N
234	-89.23504512	45.93432004	89° 14' 6.16" W	45° 56' 3.55" N
235	-89.23446470	45.93431615	89° 14' 4.07" W	45° 56' 3.54" N
236	-89.23388429	45.93431226	89° 14' 1.98" W	45° 56' 3.52" N
237	-89.23330387	45.93430837	89° 13' 59.89" W	45° 56' 3.51" N
238	-89.23272346	45.93430447	89° 13' 57.80" W	45° 56' 3.50" N
239	-89.23214304	45.93430057	89° 13' 55.71" W	45° 56' 3.48" N
240	-89.23156263	45.93429667	89° 13' 53.63" W	45° 56' 3.47" N
241	-89.24143520	45.93395761	89° 14' 29.17" W	45° 56' 2.25" N
242	-89.24085479	45.93395376	89° 14' 27.08" W	45° 56' 2.23" N
243	-89.24027438	45.93394990	89° 14' 24.99" W	45° 56' 2.22" N
244	-89.23969397	45.93394604	89° 14' 22.90" W	45° 56' 2.21" N
245	-89.23911356	45.93394218	89° 14' 20.81" W	45° 56' 2.19" N
246	-89.23853315	45.93393831	89° 14' 18.72" W	45° 56' 2.18" N
247	-89.23795274	45.93393444	89° 14' 16.63" W	45° 56' 2.16" N
248	-89.23737233	45.93393057	89° 14' 14.54" W	45° 56' 2.15" N
249	-89.23679192	45.93392670	89° 14' 12.45" W	45° 56' 2.14" N
250	-89.23621150	45.93392282	89° 14' 10.36" W	45° 56' 2.12" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
251	-89.23563109	45.93391894	89° 14' 8.27" W	45° 56' 2.11" N
252	-89.23505068	45.93391505	89° 14' 6.18" W	45° 56' 2.09" N
253	-89.23447027	45.93391117	89° 14' 4.09" W	45° 56' 2.08" N
254	-89.23388986	45.93390728	89° 14' 2.00" W	45° 56' 2.07" N
255	-89.23330945	45.93390338	89° 13' 59.91" W	45° 56' 2.05" N
256	-89.23272904	45.93389949	89° 13' 57.82" W	45° 56' 2.04" N
257	-89.23214863	45.93389559	89° 13' 55.74" W	45° 56' 2.02" N
258	-89.23156822	45.93389169	89° 13' 53.65" W	45° 56' 2.01" N
259	-89.24144073	45.93355263	89° 14' 29.19" W	45° 56' 0.79" N
260	-89.24086032	45.93354877	89° 14' 27.10" W	45° 56' 0.78" N
261	-89.24027991	45.93354492	89° 14' 25.01" W	45° 56' 0.76" N
262	-89.23969950	45.93354106	89° 14' 22.92" W	45° 56' 0.75" N
263	-89.23911910	45.93353719	89° 14' 20.83" W	45° 56' 0.73" N
264	-89.23853869	45.93353333	89° 14' 18.74" W	45° 56' 0.72" N
265	-89.23795828	45.93352946	89° 14' 16.65" W	45° 56' 0.71" N
266	-89.23737788	45.93352559	89° 14' 14.56" W	45° 56' 0.69" N
267	-89.23679747	45.93352171	89° 14' 12.47" W	45° 56' 0.68" N
268	-89.23621706	45.93351783	89° 14' 10.38" W	45° 56' 0.66" N
269	-89.23563666	45.93351395	89° 14' 8.29" W	45° 56' 0.65" N
270	-89.23505625	45.93351007	89° 14' 6.20" W	45° 56' 0.64" N
271	-89.23447585	45.93350618	89° 14' 4.11" W	45° 56' 0.62" N
272	-89.23389544	45.93350229	89° 14' 2.02" W	45° 56' 0.61" N
273	-89.23273463	45.93349451	89° 13' 57.84" W	45° 56' 0.58" N
274	-89.23215422	45.93349061	89° 13' 55.76" W	45° 56' 0.57" N
275	-89.23157382	45.93348671	89° 13' 53.67" W	45° 56' 0.55" N
276	-89.23099341	45.93348280	89° 13' 51.58" W	45° 56' 0.54" N
277	-89.24144625	45.93314764	89° 14' 29.21" W	45° 55' 59.33" N
278	-89.24086584	45.93314379	89° 14' 27.12" W	45° 55' 59.32" N
279	-89.24028544	45.93313993	89° 14' 25.03" W	45° 55' 59.30" N
280	-89.23970504	45.93313607	89° 14' 22.94" W	45° 55' 59.29" N
281	-89.23912464	45.93313221	89° 14' 20.85" W	45° 55' 59.28" N
282	-89.23854423	45.93312834	89° 14' 18.76" W	45° 55' 59.26" N
283	-89.23796383	45.93312447	89° 14' 16.67" W	45° 55' 59.25" N
284	-89.23738343	45.93312060	89° 14' 14.58" W	45° 55' 59.23" N
285	-89.23680303	45.93311673	89° 14' 12.49" W	45° 55' 59.22" N
286	-89.23622262	45.93311285	89° 14' 10.40" W	45° 55' 59.21" N
287	-89.23564222	45.93310897	89° 14' 8.31" W	45° 55' 59.19" N
288	-89.23506182	45.93310509	89° 14' 6.22" W	45° 55' 59.18" N
289	-89.24203217	45.93274651	89° 14' 31.32" W	45° 55' 57.89" N
290	-89.24145177	45.93274266	89° 14' 29.23" W	45° 55' 57.87" N
291	-89.24087137	45.93273881	89° 14' 27.14" W	45° 55' 57.86" N
292	-89.24029097	45.93273495	89° 14' 25.05" W	45° 55' 57.85" N
293	-89.23971057	45.93273109	89° 14' 22.96" W	45° 55' 57.83" N
294	-89.23913017	45.93272723	89° 14' 20.87" W	45° 55' 57.82" N
295	-89.23854978	45.93272336	89° 14' 18.78" W	45° 55' 57.80" N
296	-89.23796938	45.93271949	89° 14' 16.69" W	45° 55' 57.79" N
297	-89.23738898	45.93271562	89° 14' 14.60" W	45° 55' 57.78" N
298	-89.23680858	45.93271174	89° 14' 12.51" W	45° 55' 57.76" N
299	-89.23622818	45.93270787	89° 14' 10.42" W	45° 55' 57.75" N
300	-89.24261808	45.93234537	89° 14' 33.43" W	45° 55' 56.44" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
301	-89.24203768	45.93234153	89° 14' 31.34" W	45° 55' 56.43" N
302	-89.24145729	45.93233768	89° 14' 29.25" W	45° 55' 56.42" N
303	-89.24087690	45.93233382	89° 14' 27.16" W	45° 55' 56.40" N
304	-89.24029650	45.93232996	89° 14' 25.07" W	45° 55' 56.39" N
305	-89.23971611	45.93232610	89° 14' 22.98" W	45° 55' 56.37" N
306	-89.23913571	45.93232224	89° 14' 20.89" W	45° 55' 56.36" N
307	-89.23855532	45.93231837	89° 14' 18.80" W	45° 55' 56.35" N
308	-89.23797492	45.93231451	89° 14' 16.71" W	45° 55' 56.33" N
309	-89.23739453	45.93231063	89° 14' 14.62" W	45° 55' 56.32" N
310	-89.23681414	45.93230676	89° 14' 12.53" W	45° 55' 56.30" N
311	-89.24262359	45.93194039	89° 14' 33.44" W	45° 55' 54.99" N
312	-89.24146281	45.93193269	89° 14' 29.27" W	45° 55' 54.96" N
313	-89.24088242	45.93192884	89° 14' 27.18" W	45° 55' 54.94" N
314	-89.24030203	45.93192498	89° 14' 25.09" W	45° 55' 54.93" N
315	-89.23972164	45.93192112	89° 14' 23.00" W	45° 55' 54.92" N
316	-89.23914125	45.93191726	89° 14' 20.91" W	45° 55' 54.90" N
317	-89.23856086	45.93191339	89° 14' 18.82" W	45° 55' 54.89" N
318	-89.23798047	45.93190952	89° 14' 16.73" W	45° 55' 54.87" N
319	-89.23740008	45.93190565	89° 14' 14.64" W	45° 55' 54.86" N
320	-89.24146833	45.93152771	89° 14' 29.29" W	45° 55' 53.50" N
321	-89.24088795	45.93152385	89° 14' 27.20" W	45° 55' 53.49" N
322	-89.24030756	45.93151999	89° 14' 25.11" W	45° 55' 53.47" N
323	-89.23972717	45.93151613	89° 14' 23.02" W	45° 55' 53.46" N
324	-89.23914679	45.93151227	89° 14' 20.93" W	45° 55' 53.44" N
325	-89.23856640	45.93150841	89° 14' 18.84" W	45° 55' 53.43" N
326	-89.23798602	45.93150454	89° 14' 16.75" W	45° 55' 53.42" N
327	-89.24147385	45.93112272	89° 14' 29.31" W	45° 55' 52.04" N
328	-89.24089347	45.93111887	89° 14' 27.22" W	45° 55' 52.03" N
329	-89.24031309	45.93111501	89° 14' 25.13" W	45° 55' 52.01" N
330	-89.23973271	45.93111115	89° 14' 23.04" W	45° 55' 52.00" N
331	-89.23915233	45.93110729	89° 14' 20.95" W	45° 55' 51.99" N
332	-89.23857195	45.93110342	89° 14' 18.86" W	45° 55' 51.97" N
333	-89.24147937	45.93071774	89° 14' 29.33" W	45° 55' 50.58" N
334	-89.24089900	45.93071388	89° 14' 27.24" W	45° 55' 50.57" N
335	-89.24031862	45.93071003	89° 14' 25.15" W	45° 55' 50.56" N
336	-89.23973824	45.93070617	89° 14' 23.06" W	45° 55' 50.54" N
337	-89.23915786	45.93070230	89° 14' 20.97" W	45° 55' 50.53" N
338	-89.23857749	45.93069844	89° 14' 18.88" W	45° 55' 50.51" N
339	-89.24148490	45.93031275	89° 14' 29.35" W	45° 55' 49.13" N
340	-89.24090452	45.93030890	89° 14' 27.26" W	45° 55' 49.11" N
341	-89.24032415	45.93030504	89° 14' 25.17" W	45° 55' 49.10" N
342	-89.23974378	45.93030118	89° 14' 23.08" W	45° 55' 49.08" N
343	-89.23916340	45.93029732	89° 14' 20.99" W	45° 55' 49.07" N
344	-89.23858303	45.93029345	89° 14' 18.90" W	45° 55' 49.06" N
345	-89.24091005	45.92990391	89° 14' 27.28" W	45° 55' 47.65" N
346	-89.24032968	45.92990006	89° 14' 25.19" W	45° 55' 47.64" N
347	-89.23974931	45.92989620	89° 14' 23.10" W	45° 55' 47.63" N
348	-89.23916894	45.92989233	89° 14' 21.01" W	45° 55' 47.61" N
349	-89.23858857	45.92988847	89° 14' 18.92" W	45° 55' 47.60" N
350	-89.24091557	45.92949893	89° 14' 27.30" W	45° 55' 46.20" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
351	-89.24033521	45.92949507	89° 14' 25.21" W	45° 55' 46.18" N
352	-89.23975484	45.92949121	89° 14' 23.12" W	45° 55' 46.17" N
353	-89.24092110	45.92909394	89° 14' 27.32" W	45° 55' 44.74" N
354	-89.24034074	45.92909009	89° 14' 25.23" W	45° 55' 44.72" N
355	-89.23976037	45.92908623	89° 14' 23.14" W	45° 55' 44.71" N
356	-89.24150698	45.92869281	89° 14' 29.43" W	45° 55' 43.29" N
357	-89.24092662	45.92868896	89° 14' 27.34" W	45° 55' 43.28" N
358	-89.24034626	45.92868510	89° 14' 25.25" W	45° 55' 43.27" N
359	-89.23976591	45.92868124	89° 14' 23.16" W	45° 55' 43.25" N
360	-89.24151250	45.92828783	89° 14' 29.44" W	45° 55' 41.84" N
361	-89.24093215	45.92828397	89° 14' 27.36" W	45° 55' 41.82" N
362	-89.24035179	45.92828012	89° 14' 25.27" W	45° 55' 41.81" N
363	-89.23977144	45.92827626	89° 14' 23.18" W	45° 55' 41.79" N
364	-89.23919109	45.92827239	89° 14' 21.09" W	45° 55' 41.78" N
365	-89.23861074	45.92826853	89° 14' 19.00" W	45° 55' 41.77" N
366	-89.23803039	45.92826466	89° 14' 16.91" W	45° 55' 41.75" N
367	-89.23745003	45.92826079	89° 14' 14.82" W	45° 55' 41.74" N
368	-89.24151802	45.92788284	89° 14' 29.46" W	45° 55' 40.38" N
369	-89.24093767	45.92787899	89° 14' 27.38" W	45° 55' 40.36" N
370	-89.24035732	45.92787513	89° 14' 25.29" W	45° 55' 40.35" N
371	-89.23977697	45.92787127	89° 14' 23.20" W	45° 55' 40.34" N
372	-89.23919663	45.92786741	89° 14' 21.11" W	45° 55' 40.32" N
373	-89.23861628	45.92786354	89° 14' 19.02" W	45° 55' 40.31" N
374	-89.23803593	45.92785968	89° 14' 16.93" W	45° 55' 40.29" N
375	-89.23745558	45.92785580	89° 14' 14.84" W	45° 55' 40.28" N
376	-89.24210388	45.92748171	89° 14' 31.57" W	45° 55' 38.93" N
377	-89.24152354	45.92747786	89° 14' 29.48" W	45° 55' 38.92" N
378	-89.24094319	45.92747400	89° 14' 27.40" W	45° 55' 38.91" N
379	-89.24036285	45.92747015	89° 14' 25.31" W	45° 55' 38.89" N
380	-89.23978251	45.92746629	89° 14' 23.22" W	45° 55' 38.88" N
381	-89.23920216	45.92746242	89° 14' 21.13" W	45° 55' 38.86" N
382	-89.23862182	45.92745856	89° 14' 19.04" W	45° 55' 38.85" N
383	-89.23804148	45.92745469	89° 14' 16.95" W	45° 55' 38.84" N
384	-89.23746113	45.92745082	89° 14' 14.86" W	45° 55' 38.82" N
385	-89.23688079	45.92744695	89° 14' 12.77" W	45° 55' 38.81" N
386	-89.24210940	45.92707672	89° 14' 31.59" W	45° 55' 37.48" N
387	-89.24152906	45.92707287	89° 14' 29.50" W	45° 55' 37.46" N
388	-89.24094872	45.92706902	89° 14' 27.42" W	45° 55' 37.45" N
389	-89.24036838	45.92706516	89° 14' 25.33" W	45° 55' 37.43" N
390	-89.23978804	45.92706130	89° 14' 23.24" W	45° 55' 37.42" N
391	-89.23920770	45.92705744	89° 14' 21.15" W	45° 55' 37.41" N
392	-89.23862736	45.92705357	89° 14' 19.06" W	45° 55' 37.39" N
393	-89.23804702	45.92704971	89° 14' 16.97" W	45° 55' 37.38" N
394	-89.23746668	45.92704583	89° 14' 14.88" W	45° 55' 37.36" N
395	-89.23688634	45.92704196	89° 14' 12.79" W	45° 55' 37.35" N
396	-89.23630600	45.92703808	89° 14' 10.70" W	45° 55' 37.34" N
397	-89.24153458	45.92666789	89° 14' 29.52" W	45° 55' 36.00" N
398	-89.24095424	45.92666403	89° 14' 27.44" W	45° 55' 35.99" N
399	-89.24037391	45.92666018	89° 14' 25.35" W	45° 55' 35.98" N
400	-89.23979357	45.92665632	89° 14' 23.26" W	45° 55' 35.96" N

Sample Number	Longitude (Decimal Degrees)	Latitude (Decimal Degrees)	Longitude (DMS)	Longitude (DMS)
401	-89.23921324	45.92665245	89° 14' 21.17" W	45° 55' 35.95" N
402	-89.23863290	45.92664859	89° 14' 19.08" W	45° 55' 35.93" N
403	-89.23805257	45.92664472	89° 14' 16.99" W	45° 55' 35.92" N
404	-89.23747223	45.92664085	89° 14' 14.90" W	45° 55' 35.91" N
405	-89.23689190	45.92663698	89° 14' 12.81" W	45° 55' 35.89" N
406	-89.23979910	45.92625133	89° 14' 23.28" W	45° 55' 34.50" N
407	-89.23921877	45.92624747	89° 14' 21.19" W	45° 55' 34.49" N
408	-89.23863844	45.92624360	89° 14' 19.10" W	45° 55' 34.48" N
409	-89.23805811	45.92623974	89° 14' 17.01" W	45° 55' 34.46" N
410	-89.23747778	45.92623587	89° 14' 14.92" W	45° 55' 34.45" N
411	-89.23689745	45.92623199	89° 14' 12.83" W	45° 55' 34.44" N
412	-89.23980464	45.92584635	89° 14' 23.30" W	45° 55' 33.05" N
413	-89.23922431	45.92584248	89° 14' 21.21" W	45° 55' 33.03" N
414	-89.23864398	45.92583862	89° 14' 19.12" W	45° 55' 33.02" N
415	-89.23806366	45.92583475	89° 14' 17.03" W	45° 55' 33.01" N
416	-89.23748333	45.92583088	89° 14' 14.94" W	45° 55' 32.99" N