
Okanagan TSA VRI Phase II

Ground Sampling Pilot

Project Implementation Plan

Amendment

Prepared for

Okanagan Innovative Forestry Society

Project: OKI-400

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1. INTRODUCTION

1.1 OVERVIEW

The Okanagan Innovative Forestry Society (OIFS) installed 110 Phase II ground samples in the Okanagan Timber Supply Area (TSA) in 2003. Those samples were installed under a Project Implementation Plan¹ (VPIP) developed to provincial Vegetation Resources Inventory (VRI) standards. The OIFS has since decided to expand the number of samples by installing an additional 50 Phase II plots in the TSA. This report is an amendment to the original VPIP, and documents the expansion of the Phase II sample size and selected samples. Only revised sections of the original VPIP are included in this amendment. All other sampling methods identified in the original VPIP will be maintained.

2. TIMBER EMPHASIS GROUND SAMPLING PLAN

2.1 NUMBER OF SAMPLE POINTS

The target is to install up to 50 Phase II timber emphasis plots (TEP). These sample points are randomly distributed over the TSA, thus all points will have same probability of selection and equal sampling weights. These 50 sample points were previously selected under the original VPIP, and are the next batch of sample points (batch 2) from the original list of 550 points. Appendix IV provides the list of sample polygons. An additional batch of samples has also been selected if any of the previous batch 2 samples can no longer be established (Appendix V).

2.2 ENHANCEMENT FOR NVAF SAMPLING

NVAF sampling met the standards at the time the original project was undertaken. Enhancement to the existing NVAF is being considered. An NVAF sample plan will be completed and signed by Tolko and the MOFR prior to the initiation of NVAF sampling.

3. IMPLEMENTATION PLAN

3.1 SCHEDULE

The VRI Phase II sampling will be implemented in 2006 as follows:

1. The OIFS will prepare and submit an amendment to the original VPIP for approval by the MOFR Southern Interior Region.
2. The OIFS will select an additional 50 potential sample polygons from the operable Crown VT land base.
3. The OIFS will hire certified crews to install the TEPs and a certified 3rd party auditor to check their work.
4. The OIFS will mentor all crews on the first day of field sampling. The MOFR is invited to participate in mentoring and auditing QA.
5. The contractor crews will supply digital files of the TEP data to the OIFS for compilation and QA at the end of each shift.
6. The OIFS will audit approximately 10% of the TEPs.

¹ J.S. Thrower & Associates Ltd. 2002. Okanagan TSA VRI Phase 2 Ground Sampling Pilot – Project Implementation Plan. Contract report prepared for the OIFS. JST Project OKI-002. May 16, 2002. 17 pp.



7. The OIFS will complete the statistical analysis by December 31, 2006.

APPENDIX IV – LIST OF POTENTIAL TEP SAMPLE POLYGONS

This sample list includes 110 sample points previously established under the VPIP (MOFR Project ID 0221, shaded yellow, samples # 1-110) plus the second batch of 50 sample points as new Phase II samples under this amendment (MOFR Project ID 0222, shaded green, samples # 111-160). Note that sample points that have a potential sampling conflict (ie., in a designated protected area, or in a harvested opening) have been identified (red text). These identified conflict sample points under the new Phase II samples will be excluded, and a separate batch will be added to augment the number of samples to 50.

Project	Measurement Status	Sample No.	Mapsheet No.	Polygon No.	UTM Northing	UTM Easting	BGC Unit	Leading Species	Secondary Species	Age (yrs)	Height (m)	Crown Closure (%)	Conflict	Protected Area	New Depletion
TSA	Existing	1	082L035	555	5581219	355158	ESSFdc3	B	S	122	30.5	60	N	N	N
TSA	Existing	2	082L087	82	5636492	383149	ESSFwc4	B	S	234	32.4	60	N	N	N
TSA	Existing	3	082L063	650	5612173	321612	ESSFdc3	S	B	360	33.8	60	N	N	N
TSA	Existing	4	082M014	417	5672587	337954	ESSFwc2	S	B	222	32.6	60	N	N	N
TSA	Existing	5	082L006	603	5540458	360553	ESSFxc2	S	P	111	32.5	60	N	N	N
TSA	Existing	6	082M025	164	5681358	353790	ESSFwc2	S	B	242	29.7	40	N	N	N
TSA	Existing	7	082E041	123	5481999	284024	ESSFxc1	P	S	122	24.3	70	Y	N	Y
TSA	Existing	8	082L008	304	5544441	397300	ESSFdc1	S	B	238	29.4	40	N	N	N
TSA	Existing	9	082L001	170	5549505	297062	ESSFdc2	S	P	195	32.6	60	N	N	N
TSA	Existing	10	082M025	197	5679614	351652	ESSFwc2	B	S	242	29.8	40	N	N	N
TSA	Existing	11	082M004	102	5654392	343099	ICHwk1	B	S	232	29.2	10	N	N	N
TSA	Existing	12	082L066	387	5608489	360136	ESSFwc4	B	C	41	9	10	N	N	N
TSA	Existing	13	092H009	270	5434901	696136	ESSFxc1	P		86	13.9	50	N	N	N
TSA	Existing	14	082L032	257	5581095	314048	ESSFdc2	B	P	44	9.9	10	N	N	N
TSA	Existing	15	082E011	542	5443597	290260	ESSFxc1	S	B	216	18.1	40	Y	Y	N
TSA	Existing	16	082M015	369	5667029	354687	ESSFwc2	S	B	27	3.5	10	N	N	N
TSA	Existing	17	082E011	494	5444393	283924	ESSFxc1	S		296	17.3	30	Y	Y	N
TSA	Existing	18	082L063	505	5610195	325291	ESSFdc3	B	S	220	19.7	40	N	N	N
TSA	Existing	19	082E074	206	5512712	334086	ESSFdc1	B	S	57	17.5	60	N	N	N
TSA	Existing	20	082E021	56	5463005	287873	ESSFxcw	S	P	216	24.1	50	N	N	N
TSA	Existing	21	082E054	727	5489337	332739	ESSFdc1	P		150	21.9	60	N	N	N
TSA	Existing	22	082E096	250	5535255	361100	ESSFxc2	B	S	111	25.6	50	N	N	N
TSA	Existing	23	082E001	72	5440442	289763	ESSFxc1	S	B	296	23.3	50	Y	Y	N
TSA	Existing	24	082M014	130	5672625	343201	ESSFwc2	S	B	191	27.9	50	N	N	N
TSA	Existing	25	082M014	342	5670238	339772	ESSFwcw	B	S	91	23.2	40	N	N	N
TSA	Existing	26	082L068	181	5611391	396673	ESSFwc4	B	S	183	27	40	N	N	N
TSA	Existing	27	082E095	38	5539339	346773	ESSFdc1	P		105	20	80	N	N	N
TSA	Existing	28	082E031	299	5471871	284562	ESSFxc1	F	P	96	21.1	60	N	N	N



Project	Measurement Status	Sample No.	Mapsheet No.	Polygon No.	UTM Northing	UTM Easting	BGC Unit	Leading Species	Secondary Species	Age (yrs)	Height (m)	Crown Closure (%)	Conflict	Protected Area	New Depletion
TSA	Existing	29	082L063	252	5615569	322647	ESSFdc3	P	S	112	22.7	70	N	N	N
TSA	Existing	30	082E096	296	5531323	369861	ESSFdcw	B	S	222	27	30	Y	Y	N
TSA	Existing	31	082E031	323	5470249	284659	ESSFxc1	P		126	21	70	N	N	N
TSA	Existing	32	082M036	14	5696010	363824	ICHwk1	H		292	37.1	60	N	N	N
TSA	Existing	33	082L067	275	5611468	380262	ICHmw2	F	C	133	31.3	70	N	N	N
TSA	Existing	34	082M036	150	5691105	370660	ICHmw3	H	C	302	40	60	N	N	N
TSA	Existing	35	082M015	141	5671654	350034	ICHwk1	S	B	242	32.3	40	N	N	N
TSA	Existing	36	082L097	546	5642261	376629	ICHwk1	H	C	334	39.6	60	N	N	N
TSA	Existing	37	082M046	2092	5706581	368702	ICHwk1	C	H	342	37.4	60	N	N	N
TSA	Existing	38	082M006	1120	5661079	364211	ICHmw3	C	F	242	35.4	60	N	N	N
TSA	Existing	39	082L078	398	5618657	395787	ICHwk1	C	H	333	31	60	N	N	N
TSA	Existing	40	082L086	446	5639771	365327	ICHmw2	F	C	144	34.2	60	N	N	N
TSA	Existing	41	082M037	172	5685565	383262	ICHvk1	H	C	302	31.3	60	N	N	N
TSA	Existing	42	082L096	76	5641855	370329	ICHmw3	F	C	134	34.8	60	N	N	N
TSA	Existing	43	082L069	340	5607919	401771	ICHmw3	C	S	333	31	30	N	N	N
TSA	Existing	44	082E097	345	5534921	384310	ICHmk1	B	P	30	7.7	70	N	N	N
TSA	Existing	45	082L019	98	5558800	406279	ICHwk1	H	C	233	34.4	30	N	N	N
TSA	Existing	46	082E095	224	5535087	351315	ICHmk1	S	F	121	22.2	30	N	N	N
TSA	Existing	47	082L016	127	5559184	369275	ICHmk1	P	F	54	16.3	10	N	N	N
TSA	Existing	48	082L037	600	5574162	375813	ICHmk1	P	A	83	17.3	60	N	N	N
TSA	Existing	49	082L018	707	5557551	395548	ICHmk1	F	E	102	24.3	50	N	N	N
TSA	Existing	50	082L038	105	5582660	397642	ICHmw2	F	L	63	18.8	70	N	N	N
TSA	Existing	51	082L037	532	5576226	383327	ICHmk1	B	H	46	6.9	10	N	N	N
TSA	Existing	52	082L019	196	5557721	406846	ICHwk1	H	C	233	31.6	40	N	N	N
TSA	Existing	53	082E097	686	5538104	379078	ICHmk1	B	P	33	8.8	10	N	N	N
TSA	Existing	54	082L097	671	5649403	376733	ICHmw3	F	H	30	8.4	40	N	N	N
TSA	Existing	55	082L038	473	5574081	399367	ICHmw2	P		63	10.7	70	N	N	N
TSA	Existing	56	082E097	538	5529154	376631	ICHmk1	P	F	118	23.5	60	N	N	N
TSA	Existing	57	082L088	229	5639697	395147	ICHwk1	F	E	104	30.9	50	N	N	N
TSA	Existing	58	082E085	1147	5519732	343027	ICHmk1	S	P	109	25.5	55	Y	N	Y
TSA	Existing	59	082L049	54	5594764	403819	ICHwk1	C	H	103	23.3	70	N	N	N
TSA	Existing	60	082L046	48	5593928	370070	ICHmw2	P	E	113	24.4	40	N	N	N
TSA	Existing	61	082L045	391	5586929	356991	ICHmk1	F	S	63	24.9	60	N	N	N
TSA	Existing	62	082E097	325	5533590	381323	ICHmk1	F	P	98	26.2	60	N	N	N

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TSA	Existing	63	082L007	375	5543084	384242	ICHmk1	P		118	24.8	70	N	N	N	N
TSA	Existing	64	082L097	286	5645591	378968	ICHmw3	A	P	94	22.6	60	N	N	N	N
TSA	Existing	65	082L077	332	5623514	386935	ICHmw2	F	P	93	28.5	60	N	N	N	N
TSA	Existing	66	082M003	152	5660080	327694	ICHwk1	F	C	122	27	60	N	N	N	N
TSA	Existing	67	082L046	442	5584833	369517	ICHmw2	L	F	113	26.3	60	N	N	N	N
TSA	Existing	68	082E085	980	5522373	348394	IDFmw1	F	L	94	26.7	60	N	N	N	N
TSA	Existing	69	082E041	333	5477634	292329	IDFdk1	F	S	236	28.5	50	N	N	N	N
TSA	Existing	70	082E073	168	5514905	315946	IDFdm1	F	P	190	28.9	60	N	N	N	N
TSA	Existing	71	082L042	322	5588507	306424	IDFdk1	P	F	169	24.4	50	N	N	N	N
TSA	Existing	72	092H020	78	5449895	270536	IDFdk1b	P		156	20.1	60	N	N	N	N
TSA	Existing	73	082L016	32	5562168	364016	IDFdm1	F	L	123	28.6	70	N	N	N	N
TSA	Existing	74	082E022	181	5460941	299481	IDFdk1	F	P	166	23.5	40	N	N	N	N
TSA	Existing	75	082E002	120	5439365	307122	IDFxh1	F		100	22.9	40	Y	N	N	N
TSA	Existing	76	082E093	186	5531514	316737	IDFxh1	P	F	101	18.9	30	N	N	N	N
TSA	Existing	77	082E022	515	5454721	307347	IDFxh1	F	P	190	22.5	30	N	N	N	N
TSA	Existing	78	082E092	328	5532783	313072	IDFdk2	P	A	80	13.2	70	N	N	N	N
TSA	Existing	79	082E071	81	5520158	294265	IDFdk2	F		81	11.7	20	N	N	N	N
TSA	Existing	80	082L014	210	5558046	336205	IDFxh1	P	F	72	11.9	70	N	N	N	N
TSA	Existing	81	092H080	1766	5510413	278140	IDFdk2	P	A	67	15.3	70	N	N	N	N
TSA	Existing	82	082L043	210	5588872	318659	IDFmw1	F	P	120	20.2	30	N	N	N	N
TSA	Existing	83	082L043	124	5593743	319175	IDFmw1	F	E	110	26.7	60	N	N	N	N
TSA	Existing	84	082L074	89	5628656	338618	IDFmw1	F	P	120	24.8	20	Y	N	N	N
TSA	Existing	85	082L043	11	5595311	315546	IDFxh2	F		99	21.6	60	N	N	N	N
TSA	Existing	86	082E082	240	5525176	303957	IDFdk2	F	P	140	23.8	50	N	N	N	N
TSA	Existing	87	082E044	99	5484450	338761	IDFdm1	P	L	78	20.1	50	N	N	N	N
TSA	Existing	88	082E022	453	5457063	303921	IDFdk1	F		132	23	30	N	N	N	N
TSA	Existing	89	082L094	55	5643636	338909	IDFmw2	E	F	80	23.4	70	N	N	N	N
TSA	Existing	90	092H080	317	5519701	281121	MSdm2	P	B	117	23.2	80	N	N	N	N
TSA	Existing	91	082E081	187	5522868	284741	MSdm2	P	S	190	28.1	60	Y	N	Y	
TSA	Existing	92	082E044	17	5484835	329353	MSdm1	S	P	207	28.2	40	N	N	N	N
TSA	Existing	93	082L001	4	5543224	285394	MSxk1	P		135	23.6	60	N	N	N	N
TSA	Existing	94	082E085	4	5528934	342683	MSdm1	P	L	119	27.7	70	N	N	N	N
TSA	Existing	95	092I010	2002	5544848	284491	MSxk1	P		124	25	80	N	N	N	N
TSA	Existing	96	082L004	296	5544050	340975	MSdm1	P	S	90	12.4	70	N	N	N	N



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								P	S							
TSA	Existing	97	082E053	372	5494574	323943	MSdm1	P	S	28	8	80	N	N	N	N
TSA	Existing	98	082E011	622	5443416	282897	MSxk1	P	S	66	12.9	50	Y	Y	N	N
TSA	Existing	99	082L004	117	5549643	337355	MSdm1	P	B	39	11.4	20	N	N	N	N
TSA	Existing	100	082L033	339	5585105	325333	MSdm2	P	F	70	15.9	80	N	N	N	N
TSA	Existing	101	092H040	251	5472700	717134	MSxk1	F	P	154	27.1	50	N	N	N	N
TSA	Existing	102	082E095	195	5536754	347701	MSdm1	P	B	105	16.9	50	N	N	N	N
TSA	Existing	103	082L004	156	5548231	337377	MSdm1	P		130	17.2	70	N	N	N	N
TSA	Existing	104	082E051	79	5496475	284135	MSdm2	P		130	17.2	80	N	N	N	N
TSA	Existing	105	082L005	64	5550803	353611	MSdm1	P		113	21.3	70	N	N	N	N
TSA	Existing	106	082E091	463	5541620	290126	MSdm2	P		135	20.6	70	N	N	N	N
TSA	Existing	107	082E072	38	5517771	302016	PPxh1	P	F	202	21.1	10	N	N	N	N
TSA	Existing	108	082E064	699	5504062	338023	MSdm1	B	P	68	4.1	15	N	N	N	N
TSA	Existing	109	082E053	2622	5493239	321762	MSdm1	P		33	9.6	50	N	N	N	N
TSA	Existing	110	082E092	202	5536924	310575	MSdm2	P		90	16.7	80	N	N	N	N
TSA	Proposed	111	082E086	359	5518376	360065	ESSFdc1	P		190	28.1	60	N	N	N	N
TSA	Proposed	112	082E064	33	5507126	334486	ESSFdc1	P	S	228	24.7	30	N	N	N	N
TSA	Proposed	113	082L075	230	5620879	352241	ICHmw2	F	C	160	36.1	60	N	N	N	N
TSA	Proposed	114	082L059	644	5604490	404960	ICHmw3	F	C	63	13.1	60	Y	Y	N	N
TSA	Proposed	115	082L036	919	5578653	361882	IDFmw1	H	C	124	20	60	N	N	N	N
TSA	Proposed	116	082L094	25	5642044	334776	IDFmw2	F	C	100	26.5	70	N	N	N	N
TSA	Proposed	117	082E081	385	5525646	293849	IDFd2	F	P	71	14.4	30	N	N	N	N
TSA	Proposed	118	082E062	59	5507074	299056	IDFxh1	F	P	181	26.8	30	N	N	N	N
TSA	Proposed	119	092I010	195	5548875	284496	MSxk1	P	S	144	26.3	60	N	N	N	N
TSA	Proposed	120	082M014	280	5667869	333825	ESSFwc2	B	S	56	7.9	10	N	N	N	N
TSA	Proposed	121	082M015	317	5665235	347402	ESSFwc2	S	B	172	36.5	50	N	N	N	N
TSA	Proposed	122	082E086	80	5528127	370462	ESSFdcw	S	B	228	26.1	30	Y	Y	N	N
TSA	Proposed	123	082M008	319	5655040	388640	ICHwk1	H	F	114	26.6	80	N	N	N	N
TSA	Proposed	124	082L038	337	5577046	392696	ICHmw2	C	H	173	26.2	30	N	N	N	N
TSA	Proposed	125	082E085	1145	5519744	342928	ICHmk1	F	L	134	34.5	50	Y	N	Y	N
TSA	Proposed	126	082E071	601	5509661	288110	MSdm2	P		100	21.7	70	N	N	N	N
TSA	Proposed	127	082L076	64	5627074	370864	ESSFwcw	B	S	264	32	60	N	N	N	N
TSA	Proposed	128	082L007	95	5549727	382671	ESSFdc1	P		78	15.6	60	N	N	N	N
TSA	Proposed	129	082L033	440	5580538	328784	IDFd2	A	P	101	16.5	70	N	N	N	N
TSA	Proposed	130	082E073	412	5512190	318320	MSdm1	P		91	14.4	40	Y	N	Y	N



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TSA	Proposed	131	082M015	37	5672466	353161	ICHwk1	S	B	172	33.8	50	N	N	N	N	
TSA	Proposed	132	082L068	229	5609648	394537	ESSFwc4	B	S	233	22.9	30	N	N	N	N	
TSA	Proposed	133	082L088	10	5633465	388708	ICHmw2	F	H	124	39.1	60	N	N	N	N	
TSA	Proposed	134	082L028	503	5571184	388122	ICHmw2	C	F	34	10.8	10	N	N	N	N	
TSA	Proposed	135	082L056	734	5595984	364992	ICHmw2	H	C	37	11.3	10	N	N	N	N	
TSA	Proposed	136	082L025	60	5571068	350243	ICHmk1	F	C	131	28.3	55	N	N	N	N	
TSA	Proposed	137	082L062	1500	5619528	313677	IDFdk2	P	F	121	28.7	50	N	N	N	N	
TSA	Proposed	138	082L043	208	5588868	321076	IDFmw1	L	F	80	22.5	65	N	N	N	N	
TSA	Proposed	139	092H080	199	5519609	272251	MSdm2	P		102	23.2	60	N	N	N	N	
TSA	Proposed	140	082E054	377	5489981	340366	IDFdm1	L	F	78	18.6	40	N	N	N	N	
TSA	Proposed	141	082M036	211	5691165	361492	ESSFwc2	S	B	182	30.8	40	N	N	N	N	
TSA	Proposed	142	082L063	413	5612848	325829	ESSFdc3	S	B	180	26.9	50	N	N	N	N	
TSA	Proposed	143	082L086	259	5636609	370366	ICHmw3	H	C	214	29	60	N	N	N	N	
TSA	Proposed	144	082L037	567	5573684	384312	ICHmw2	L	F	233	30.8	10	N	N	N	N	
TSA	Proposed	145	082L025	46	5572323	348287	ICHmk1	L	F	111	23.8	70	N	N	N	N	
TSA	Proposed	146	082L025	119	5568303	356941	IDFxh1	F	L	153	30.2	60	N	N	N	N	
TSA	Proposed	147	082E082	271	5527465	306561	IDFdk2	F	P	141	21.7	40	N	N	N	N	
TSA	Proposed	148	082E073	373	5509881	322255	MSdm1	P		80	15.2	80	N	N	N	N	
TSA	Proposed	149	082E031	103	5475890	290198	ESSFxc1	P	S	115	16.7	60	N	N	N	N	
TSA	Proposed	150	082E074	118	5516308	331120	MSdm1	P	S	80	13.2	50	N	N	N	N	
TSA	Proposed	151	092H080	343	5519253	283078	ESSFdc2	P	S	132	25.1	60	N	N	N	N	
TSA	Proposed	152	082L006	453	5545062	368688	ESSFxc2	B	S	231	26.7	50	Y	Y	N		
TSA	Proposed	153	082L097	542	5641223	375287	ICHmw3	F	C	104	30.9	70	N	N	N	N	
TSA	Proposed	154	082L085	202	5638484	358814	ICHwk1	B	H	55	13.8	50	N	N	N	N	
TSA	Proposed	155	082E073	2657	5516129	326165	ICHmk1	P	L	110	22.9	60	Y	Y	N		
TSA	Proposed	156	082E031	125	5474994	296523	IDFxh1	F		116	19	60	N	N	N	N	
TSA	Proposed	157	082E085	1078	5520791	346583	MSdm1	P		119	25.7	70	N	N	N	N	
TSA	Proposed	158	082L007	733	5542520	381553	ESSFdc1	S	B	29	4.1	15	N	N	N	N	
TSA	Proposed	159	082L018	475	5559500	393682	IDFmw1	F	B	63	15.4	40	N	N	N	N	
TSA	Proposed	160	082L004	311	5546001	337497	MSdm1	S	B	170	29.9	20	N	N	N	N	



APPENDIX V –BATCH 3 SAMPLES

This sample list includes a potential third batch of 30 sample points as new Phase II samples under this amendment (MOFR Project ID 0222, samples # 161-190). These plots will be selected to bring the total number of new phase II plots to 50, if any of the second batch of samples (ie., samples # 111-160) cannot be sampled (ie., in a designated protected area, or in a recently harvested opening).

Project	Measurement Status	Sample No.	Mapsheet No.	Polygon No.	UTM Zone	UTM Northing	UTM Easting	BGC Unit	Leading Species	Secondary Species	Age (yrs)	Height (m)	Crown Closure (%)	Conflict	Protected Area	New Depletion
TSA	Proposed	161	082L038	286	11	5579537	397646	ESSFwc4	BL	SE	63	15.2	10	N	N	N
TSA	Proposed	162	082M036	383	11	5686372	363503	ICHwk1	FD	DEC	102	21.9	60	N	Z	Z
TSA	Proposed	163	082L064	160	11	5614726	341987	IDFmw1	FD	LT	120	24.8	70	N	N	N
TSA	Proposed	164	082E033	260	11	5470508	323318	MSdm1	PL		70	14.5	50	N	N	N
TSA	Proposed	165	082L018	136	11	5561514	396053	ESSFwc1	PL	FD	102	26.2	45	N	N	N
TSA	Proposed	166	082E097	166	11	5535888	378293	ICHmk1	SE	BL	228	31.6	40	N	N	N
TSA	Proposed	167	082E073	78	11	5515674	324196	IDFdm1	PL	LT	105	18	60	N	N	N
TSA	Proposed	168	082L086	334	11	5637609	367268	ICHmw2	PL	FD	74	26.4	80	N	N	N
TSA	Proposed	169	092H080	752	10	5515562	704189	MSdm2	PL	FD	112	26.2	45	N	N	N
TSA	Proposed	170	082L036	461	11	5576178	359956	IDFmw1	FD	CW	136	35.2	60	N	N	N
TSA	Proposed	171	082E054	377	11	5490167	340490	IDFdm1	LT	FD	78	18.6	40	N	N	N
TSA	Proposed	172	082L033	541	11	5582505	316442	MSdm2	PL	DEC	40	7.6	70	N	N	N
TSA	Proposed	173	082M003	181	11	5660159	325486	ESSFwc2	BL	SE	193	25	20	N	N	N
TSA	Proposed	174	082E051	393	11	5494518	284493	ESSFxc1	PL		60	12	40	N	N	N
TSA	Proposed	175	082E051	79	11	5495608	283825	MSdm2	PL		130	17.2	80	N	N	N
TSA	Proposed	176	082L063	302	11	5616062	317168	MSdm3	FD	PL	110	25.6	40	N	N	N
TSA	Proposed	177	082L008	379	11	5544595	389770	ICHmk1	PL	BL	27	7.6	10	N	N	N
TSA	Proposed	178	082L075	123	11	5623763	348577	ICHmw2	CW	HW	313	31.5	55	N	N	N
TSA	Proposed	179	082L098	522	11	5650038	395459	ESSFwcw	SE	BL	234	31.9	60	N	N	N
TSA	Proposed	180	082M004	23	11	5663551	334486	ICHwk1	CW	SE	242	35.4	60	N	N	N
TSA	Proposed	181	082L018	1025	11	5555274	394452	ESSFwc1	PL	SE	102	21.2	60	N	N	N
TSA	Proposed	182	082M004	295	11	5659827	336029	ICHwk1	HW	CW	31	9	40	N	N	N
TSA	Proposed	183	082E098	206	11	5537124	390731	ESSFdc1	PL	BL	128	29.2	50	N	N	N
TSA	Proposed	184	082L022	78	11	5570580	300832	ESSFxc2	PL		125	21	60	N	N	N
TSA	Proposed	185	082M013	324	11	5669525	331112	ICHwk1	CW	HW	195	21.6	50	N	N	N
TSA	Proposed	186	082E085	458	11	5519728	345442	ICHmk1	PL	LT	107	25.8	10	N	N	N
TSA	Proposed	187	082E091	398	11	5539715	287670	MSdm2	PL		125	21	80	N	N	N
TSA	Proposed	188	082M047	60	11	5699587	381624	ESSFvc	SE	BL	302	37.2	40	N	N	N
TSA	Proposed	189	082E097	709	11	5538046	382695	ICHmk1	PL	DEC	23	6.2	10	N	N	N
TSA	Proposed	190	082E093	95	11	5536719	315382	IDFxh1	FD		140	27.1	50	N	N	N

