

CASINO

Supplementary Information Report

*Response to Request for Supplementary Information
to the Proposal for the Casino Project
submitted by Casino Mining Corporation
on January 3, 2014*

*Pursuant to the Yukon
Environmental and Socio-economic Assessment Act*

YESAB Registry # 2014-0002

December 18, 2015

TABLE OF CONTENTS

B.1 – INTRODUCTION.....	B.1-1
B.1.1 PROJECT ASSESSMENT TIMELINE.....	B.1-1
B.1.2 STAGES OF PROJECT DEVELOPMENT	B.1-1
B.1.3 GENERAL PRINCIPLES OF THE ASSESSMENT PROCESS.....	B.1-4
B.1.4 REGULATORY REVIEW FRAMEWORK	B.1-4
B.1.5 RESPONSES TO INFORMATION REQUESTS	B.1-7
B.1.6 ORGANIZATION OF THE SIR-B.....	B.1-8
B.1.7 SUMMARY OF CHANGES TO THE PROJECT PROPOSAL.....	B.1-8
B.2 – FIRST NATIONS AND COMMUNITY CONSULTATION.....	B.2-1
B.2.1 INTRODUCTION.....	B.2-1
B.2.2 TRAPPING AND OUTFITTING	B.2-2
B.2.2.1.1 R2-207	B.2-2
B.2.2.1.2 R2-208	B.2-7
B.2.3 QUARTZ AND PLACER CLAIM HOLDERS.....	B.2-10
B.2.3.1.1 R2-209	B.2-10
B.2.4 OTHER LAND USERS.....	B.2-12
B.2.4.1.1 R2-210	B.2-12
B.4 – PROJECT DESCRIPTION.....	B.4-1
B.4.1 INTRODUCTION.....	B.4-1
B.4.2 OVERSIGHT OF DESIGN, CONSTRUCTION, OPERATION, AND CLOSURE	B.4-12
B.4.2.1 Independent Geotechnical Review Panel	B.4-12
B.4.2.1.1 R2-1	B.4-12
B.4.2.2 Change Management and Technical Review Procedures.....	B.4-16
B.4.2.2.1 R2-2	B.4-16
B.4.3 ALTERNATIVES	B.4-20
B.4.3.1 Tailings Management Facility.....	B.4-20
B.4.3.1.1 R2-3	B.4-20
B.4.3.2 Risk Assessment.....	B.4-21
B.4.3.2.1 R2-4	B.4-21
B.4.3.2.2 R2-5	B.4-38
B.4.4 FEASIBILITY OF THE SULPHIDES REMOVAL PROCESS.....	B.4-38
B.4.4.1 R2-6.....	B.4-38
B.4.4.2 R2-7.....	B.4-39
B.4.5 ROADS, SUPPLY ROUTES AND TRANSPORTATION.....	B.4-41
B.4.5.1 Freegold Road Extension and Upgrade.....	B.4-41
B.4.5.1.1 R2-8	B.4-41
B.4.5.1.2 R2-9	B.4-58

B.4.5.1.3	R2-10	B.4-62
B.4.5.1.4	R2-11	B.4-63
B.4.5.1.5	R2-12	B.4-63
B.4.5.1.6	R2-13	B.4-73
B.4.6	WATER MANAGEMENT PLAN	B.4-75
B.4.6.1	Conveyance of Water	B.4-75
B.4.6.1.1	R2-14	B.4-75
B.4.6.1.2	R2-15	B.4-76
B.4.6.2	Probability of Failure Analysis of Infrastructure Components	B.4-79
B.4.6.2.1	R2-16	B.4-79
B.4.7	HEAP LEACH FACILITY	B.4-83
B.4.7.1	Liners	B.4-83
B.4.7.1.1	R2-17	B.4-83
B.4.7.1.2	R2-18	B.4-83
B.4.7.2	Leak Detection and Recovery	B.4-84
B.4.7.2.1	R2-19	B.4-84
B.4.7.2.2	R2-20	B.4-84
B.4.7.3	Leachate Solution and Water Flows	B.4-85
B.4.7.3.1	R2-21	B.4-85
B.4.7.3.2	R2-22	B.4-86
B.4.7.4	Ore Stacking Rate	B.4-86
B.4.7.4.1	R2-23	B.4-86
B.4.8	TAILINGS MANAGEMENT FACILITY	B.4-87
B.4.8.1	Design Methodology and Feasibility	B.4-87
B.4.8.1.1	R2-24	B.4-87
B.4.8.1.2	R2-25	B.4-88
B.4.8.1.3	R2-26	B.4-89
B.4.8.1.4	R2-27	B.4-90
B.4.8.1.5	R2-28	B.4-91
B.4.8.1.6	R2-29	B.4-95
B.4.8.2	TMF Dam Failure	B.4-96
B.4.8.2.1	R2-30	B.4-96
B.4.8.3	Quantity and Quality of Borrow Source Materials	B.4-96
B.4.8.3.1	R2-31	B.4-96
B.4.8.4	Earthquakes	B.4-102
B.4.8.4.1	R2-32	B.4-102

B.4.8.4.2	R2-33	B.4-102
B.4.8.4.3	R2-34	B.4-103
B.4.8.4.4	R2-35	B.4-104
B.4.8.5	Flood Modeling	B.4-104
B.4.8.5.1	R2-36	B.4-104
B.4.8.6	Spillways	B.4-105
B.4.8.6.1	R2-37	B.4-105
B.4.8.6.2	R2-38	B.4-105
B.4.8.6.3	R2-39	B.4-106
B.4.8.7	HLF Failure	B.4-106
B.4.8.7.1	R2-40	B.4-106
B.4.8.8	TMF Dam Core and Downstream Filter	B.4-107
B.4.8.8.1	R2-41	B.4-107
B.4.8.8.2	R2-42	B.4-107
B.4.8.8.3	R2-43	B.4-108
B.4.8.9	Use of Cyclone Sand in Embankments	B.4-109
B.4.8.9.1	R2-44	B.4-109
B.4.8.9.2	R2-45	B.4-110
B.4.8.9.3	R2-46	B.4-110
B.4.8.9.4	R2-47	B.4-110
B.4.8.9.5	R2-48 through R2-56	B.4-114
B.4.8.9.6	R2-57	B.4-115
B.4.8.9.7	R2-58	B.4-117
B.4.8.9.8	R2-59	B.4-118
B.4.8.10	Surface Preparation	B.4-118
B.4.8.10.1	R2-60	B.4-118
B.4.8.10.2	R2-61	B.4-119
B.4.8.10.3	R2-62	B.4-121
B.4.8.10.4	R2-63	B.4-122
B.4.8.10.5	R2-64	B.4-122
B.4.8.11	TMF Dam Core Construction	B.4-123
B.4.8.11.1	R2-65	B.4-123
B.4.8.12	Starter Dam and Tailings Interface	B.4-124
B.4.8.12.1	R2-66	B.4-124
B.4.9	LIQUIFIED NATURAL GAS AND DIESEL	B.4-124
B.4.9.1	Description of LNG Facilities	B.4-124

B.4.9.1.1	R2-67	B.4-124
B.4.9.2	Description of Diesel Facilities	B.4-128
B.4.9.2.1	R2-68	B.4-128
B.4.10	CONCEPTUAL CLOSURE AND RECLAMATION PLAN	B.4-129
B.4.10.1	Long-Term Closure and Ongoing Monitoring and Maintenance	B.4-129
B.4.10.1.1	R2-69	B.4-129
B.4.10.1.2	R2-70	B.4-134
B.4.10.2	Design and Operation of Wetland Water Treatment System	B.4-141
B.4.10.2.1	R2-71	B.4-141
B.4.10.2.2	R2-72	B.4-143
B.4.10.2.3	R2-73	B.4-146
B.4.10.2.4	R2-74	B.4-149
B.4.10.2.5	R2-75	B.4-152
B.4.10.2.6	R2-76	B.4-153
B.4.10.3	Open Pit Stability	B.4-154
B.4.10.3.1	R2-77	B.4-154
B.4.10.4	HLF Closure and Cyanide	B.4-160
B.4.10.4.1	R2-78	B.4-160
B.4.10.4.2	R2-79	B.4-161
B.4.10.5	HLF and Cover Material	B.4-161
B.4.10.5.1	R2-80	B.4-161
B.4.10.6	TMF Winter Seepage Mitigation Pond	B.4-162
B.4.10.6.1	R2-81	B.4-162
B.4.10.6.2	R2-82	B.4-164
B.4.10.7	Temporary or Early Closure	B.4-168
B.4.10.7.1	R2-83	B.4-168
B.4.10.8	Mine Reclamation and Security	B.4-169
B.4.10.8.1	R2-84	B.4-169
B.4.10.8.2	R2-85	B.4-170
B.4.11	WASTE MANAGEMENT	B.4-175
B.4.11.1	R2-86	B.4-175
B.4.11.2	R2-87	B.4-177
B.4.11.3	R2-88	B.4-178
B.4.12	CLIMATE CHANGE REPORT	B.4-178
B.4.12.1	R2-121	B.4-178
B.4.12.2	R2-122	B.4-179

B.6 – TERRAIN FEATURES	B.6-1
B.6.1 INTRODUCTION.....	B.6-1
B.6.2 PERMAFROST	B.6-3
B.6.2.1.1 R2-89	B.6-3
B.6.2.1.2 R2-90	B.6-4
B.6.3 THERMAL EROSION MODELING	B.6-6
B.6.3.1.1 R2-91	B.6-6
B.6.4 GROUND THERMAL CONDITION AND PERMAFROST TEMPERATURE MONITORING.....	B.6-8
B.6.4.1.1 R2-92	B.6-8
B.6.5 SURFICIAL GEOLOGY AND TERRAIN MAPPING METHODS AND MAPS	B.6-15
B.6.5.1.1 R2-93	B.6-15
B.6.5.1.2 R2-94	B.6-17
B.6.6 TERRAIN HAZARDS ASSESSMENT	B.6-23
B.6.6.1.1 R2-95	B.6-23
B.6.6.1.2 R2-96	B.6-25
B.7 – WATER QUALITY AND QUANTITY.....	B.7-5
B.7.1 INTRODUCTION.....	B.7-5
B.7.2 WATER AND SEDIMENT QUALITY BASELINE.....	B.7-7
B.7.2.1 R2-97.....	B.7-7
B.7.3 HYDROLOGY BASELINE	B.7-12
B.7.3.1 R2-98.....	B.7-12
B.7.4 GEOCHEMISTRY AND SOURCE TERM PREDICTIONS.....	B.7-14
B.7.4.1 R2-99.....	B.7-14
B.7.4.2 R2-100.....	B.7-23
B.7.4.3 R2-101.....	B.7-33
B.7.4.4 R2-102.....	B.7-33
B.7.4.5 R2-103.....	B.7-35
B.7.4.6 R2-104.....	B.7-38
B.7.4.7 R2-105.....	B.7-39
B.7.4.8 R2-106.....	B.7-40
B.7.4.9 R2-107.....	B.7-50
B.7.4.10 R2-108.....	B.7-51
B.7.4.11 R2-109.....	B.7-52
B.7.4.12 R2-110.....	B.7-52
B.7.5 NUMERICAL GROUNDWATER MODEL.....	B.7-53
B.7.5.1 R2-111.....	B.7-53
B.7.5.2 R2-112.....	B.7-54

B.7.5.3	R2-113.....	B.7-54
B.7.5.4	R2-114.....	B.7-54
B.7.5.5	R2-115.....	B.7-56
B.7.5.6	R2-116.....	B.7-57
B.7.5.7	R2-117.....	B.7-58
B.7.6	TRANSPARENCY OF WATER QUALITY PREDICTIONS	B.7-58
B.7.6.1	R2-118.....	B.7-58
B.7.7	METAL MINING EFFLUENT REGULATIONS.....	B.7-67
B.7.7.1	R2-119.....	B.7-67
B.7.8	SUBMERGENCE OF PAG MATERIALS	B.7-70
B.7.8.1	R2-120.....	B.7-70
B.8 – AIR QUALITY		B.8-1
B.8.1	INTRODUCTION.....	B.8-1
B.8.2	AIR QUALITY MODELLING	B.8-2
B.8.2.1	Model Inputs	B.8-2
B.8.2.1.1	R2-123	B.8-2
B.8.2.2	Mitigations	B.8-5
B.8.2.2.1	R2-124	B.8-5
B.8.2.2.2	R2-125	B.8-10
B.8.3	DUST AND DUSTFALL	B.8-10
B.8.3.1.1	R2-126	B.8-10
B.8.3.1.2	R2-127	B.8-14
B.8.3.1.3	R2-128	B.8-17
B.9 – NOISE		B.9-1
B.9.1	INTRODUCTION.....	B.9-1
B.9.2	NOISE	B.9-2
B.9.2.1.1	R2-211	B.9-2
B.9.2.1.2	R2-212	B.9-3
B.9.2.1.3	R2-213	B.9-4
B.9.2.1.4	R2-214	B.9-6
B.9.2.1.5	R2-215	B.9-7
B.9.2.1.6	R2-216	B.9-8
B.10 – FISH AND AQUATIC RESOURCES		B.10-1
B.10.1	INTRODUCTION.....	B.10-1
B.10.2	FISHERIES ACT – FISHERIES PROTECTION PROVISIONS.....	B.10-3
B.10.2.1.1	R2-129	B.10-3
B.10.2.1.2	R2-130	B.10-15

B.10.3 CHARGE WEIGHTS	B.10-17
B.10.3.1.1 R2-131	B.10-17
B.10.4 BASELINE DATA	B.10-18
B.10.4.1.1 R2-132	B.10-18
B.10.4.1.2 R2-133	B.10-19
B.10.4.1.3 R2-134	B.10-19
B.10.4.1.4 R2-135	B.10-21
B.10.4.1.5 R2-136	B.10-25
B.10.4.1.6 R2-137	B.10-26
B.10.4.2 Missing Appendices Documenting Baseline Data	B.10-27
B.10.4.2.1 R2-138	B.10-27
B.10.5 PHYSICAL HABITAT SIMULATION MODEL AND HABITAT EVALUATION PROCEDURE	B.10-27
B.10.5.1.1 R2-139	B.10-27
B.10.5.1.2 R2-140	B.10-28
B.10.6 WATERCOURSE CROSSINGS	B.10-32
B.10.6.1 Embedded Culverts on Fish Bearing Streams	B.10-32
B.10.6.1.1 R2-141	B.10-32
B.10.6.2 Nordenskiold River Bridge	B.10-33
B.10.6.2.1 R2-142	B.10-33
B.10.6.2.2 R2-143	B.10-34
B.10.6.2.3 R2-144	B.10-34
B.10.6.3 Classification of Crossings	B.10-34
B.10.6.3.1 R2-145	B.10-34
B.10.6.3.2 R2-204	B.10-37
B.11 – RARE PLANTS AND VEGETATION HEALTH	B.11-1
B.11.1 INTRODUCTION	B.11-1
B.11.2 RARE PLANTS AND VEGETATION HEALTH	B.11-2
B.11.2.1.1 R2-146	B.11-2
B.11.2.1.2 R2-147	B.11-3
B.11.2.1.3 R2-148	B.11-7
B.11.2.1.4 R2-149	B.11-7
B.12 – WILDLIFE	B.12-1
B.12.1 INTRODUCTION	B.12-1
B.12.2 FREEGOLD ROAD AND OTHER ACCESS ROADS	B.12-5
B.12.2.1 R2-150	B.12-5
B.12.2.2 R2-151	B.12-6
B.12.2.3 R2-152	B.12-8

B.12.2.4 R2-153.....	B.12-9
B.12.3 EFFECTS ASSESSMENT FOR MAMMALS	B.12-11
B.12.3.1 R2-154.....	B.12-11
B.12.3.2 R2-155.....	B.12-15
B.12.3.3 R2-156.....	B.12-17
B.12.3.4 R2-157.....	B.12-19
B.12.3.5 R2-158.....	B.12-22
B.12.3.6 R2-159.....	B.12-22
B.12.3.7 R2-160.....	B.12-23
B.12.3.8 R2-161.....	B.12-23
B.12.3.9 R2-162.....	B.12-27
B.12.3.10 R2-163.....	B.12-27
B.12.3.11 R2-164.....	B.12-28
B.12.3.12 R2-165.....	B.12-29
B.12.3.13 R2-166.....	B.12-29
B.12.3.14 R2-167.....	B.12-30
B.12.3.15 R2-168.....	B.12-30
B.12.3.16 R2-169.....	B.12-32
B.12.3.17 R2-170.....	B.12-32
B.12.3.18 R2-171.....	B.12-35
B.12.3.19 R2-172.....	B.12-37
B.12.3.20 R2-173.....	B.12-38
B.12.3.21 R2-174.....	B.12-38
B.12.3.22 R2-175.....	B.12-39
B.12.3.23 R2-176.....	B.12-39
B.12.3.24 R2-177.....	B.12-40
B.12.4 EFFECTS ASSESSMENT FOR BIRDS	B.12-46
B.12.4.1 R2-178.....	B.12-46
B.12.4.2 R2-179.....	B.12-47
B.12.4.3 R2-180.....	B.12-48
B.12.4.4 R2-181.....	B.12-49
B.12.4.5 R2-182.....	B.12-50
B.12.4.6 R2-183.....	B.12-51
B.12.4.7 R2-184.....	B.12-57
B.12.4.8 R2-185.....	B.12-57
B.12.5 WILDLIFE MITIGATION AND MONITORING PLAN.....	B.12-57

B.12.5.1 R2-186.....	B.12-57
B.12.5.2 R2-187.....	B.12-58
B.12.5.3 R2-188.....	B.12-59
B.14 – EMPLOYABILITY	B.14-1
B.14.1 INTRODUCTION.....	B.14-1
B.14.2 BOOM AND BUST CYCLES	B.14-2
B.14.2.1.1 R2-191	B.14-2
B.14.3 EMPLOYMENT AND MIGRATION.....	B.14-3
B.14.3.1.1 R2-192	B.14-3
B.14.4 FLY-IN-FLY OUT AND SHIFT STRUCTURE.....	B.14-7
B.14.4.1.1 R2-193	B.14-7
B.14.4.1.2 R2-194	B.14-8
B.15 – ECONOMIC DEVELOPMENT AND BUSINESS SECTOR.....	B.15-1
B.15.1 INTRODUCTION.....	B.15-1
B.15.2 BOOM AND BUST CYCLES	B.15-2
B.15.2.1.1 R2-189	B.15-2
B.15.2.1.2 R2-190	B.15-6
B.16 – COMMUNITY VITALITY	B.16-1
B.16.1 INTRODUCTION.....	B.16-1
B.16.2 COMMUNITY VITALITY AND WELLBEING.....	B.16-1
B.16.2.1 R2-195.....	B.16-1
B.16.2.2 R2-196.....	B.16-9
B.16.2.3 R2-197.....	B.16-9
B.18 – CULTURAL CONTINUITY	B.18-1
B.18.1 PREFACE	B.18-1
B.18.2 INTRODUCTION.....	B.18-1
B.18.3 HERITAGE MANAGEMENT PLAN	B.18-2
B.18.3.1 R2-198.....	B.18-2
B.18.3.2 R2-199.....	B.18-2
B.18.3.3 R2-200.....	B.18-6
B.18.4 TRADITIONAL KNOWLEDGE AND TRADITIONAL LAND USE	B.18-7
B.18.4.1 R2-201.....	B.18-7
B.18.4.1.1 Consultation with First Nations with respect to TKTLU Studies	B.18-8
B.18.4.1.2 Traditional Land Use.....	B.18-17
B.18.4.1.3 Incorporation of Traditional Knowledge and Traditional Land Use into the Project Proposal	B.18-31
B.18.4.1.3.1 Access Road Route Selection	B.18-32
B.18.4.1.4 Assessment of Effects on Traditional Land Use.....	B.18-35

B.18.4.1.5 Mitigation of Project Effects on Traditional Land Use.....	B.18-36
B.18.4.1.5.1 Residual Effects.....	B.18-38
B.18.4.2 R2-202.....	B.18-41
B.18.4.3 R2-203.....	B.18-41
B.18.5 HARVESTING OF PLANTS.....	B.18-41
B.18.5.1 R2-205.....	B.18-41
B.18.6 HARVESTING OF ANIMALS.....	B.18-42
B.18.6.1 R2-206.....	B.18-42
B.21 – ACCIDENTS AND MALFUNCTIONS	B.21-1
B.21.1 INTRODUCTION.....	B.21-1
B.21.2 EMERGENCIES AND HUMAN HEALTH	B.21-2
B.21.2.1 Evacuation.....	B.21-2
B.21.2.1.1 R2-217	B.21-2
B.21.2.2 Fire	B.21-3
B.21.2.2.1 R2-218	B.21-3
B.21.2.3 Dangerous Goods, Spills and Leaks	B.21-3
B.21.2.3.1 R2-219	B.21-3
B.21.2.4 Human Health Risks.....	B.21-6
B.21.2.4.1 R2-220	B.21-6
B.21.2.4.2 R2-221	B.21-8
B.21.2.5 Emergency Services	B.21-9
B.21.2.5.1 R2-222	B.21-9
B.21.2.5.2 R2-223	B.21-12
B.21.3 ACCIDENTS AND MALFUNCTIONS	B.21-14
B.21.3.1.1 R2-224	B.21-14

LIST OF TABLES

Table B.2.1-1	Requests for Supplementary Information Related to First Nations and Community Consultation	B.2-1
Table B.2.2-1	Consultation for Trapline Concession Holders – 2015 update.....	B.2-2
Table B.2.2-2	Summary of Effects on Trapping and Outfitting	B.2-5
Table B.2.2-3	List of Commitments Related to Mitigation of Effects on Trapping and Outfitting.....	B.2-5
Table B.2.2-4	Consultation for Outfitting Concession Holders – 2015 update	B.2-8
Table B.4.1-1	Requests for Supplementary Information Related to Project Description.....	B.4-2
Table B.4.3-1	Likelihood Rating Criteria	B.4-24
Table B.4.3-2	Consequence Rating.....	B.4-24
Table B.4.3-3	Risk Matrix.....	B.4-24
Table B.4.3-4	Tailings Management Facility Risk Assessment.....	B.4-33
Table B.4.4-1	Assumptions – Cyclone Sand Production Generated from Hypogene Ore	B.4-40
Table B.4.5-1	Required Permits for Construction and Operation of Temporary Construction Camps.....	B.4-43
Table B.4.5-2	Projected Traffic Volumes during the Operations Phase	B.4-63
Table B.4.5-3	Projected Traffic Volumes during the Operations Phase inbound and outbound by Vehicle Type	B.4-64
Table B.4.5-4	Traffic and Truck Count Statistics from the Whitehorse Corridor (Summer 2011) and Estimated Project-related Truck Traffic.....	B.4-66
Table B.4.6-1	HLF Diversion Ditch Requirements.....	B.4-76
Table B.4.8-1	Summary of Existing Cyclone Sand Tailings Dams.....	B.4-88
Table B.4.8-2	Post-Closure Care and Maintenance Cost Estimate	B.4-94
Table B.4.8-3	Mine Site Borrow Material Requirements.....	B.4-97
Table B.4.8-4	Average Minimum Temperatures at Casino Mine Site 2008 - 2014	B.4-116
Table B.4.10-1	Closure Options Analysis	B.4-130
Table B.4.10-2	Closure Components to meet Government of Yukon Closure Objectives.....	B.4-136
Table B.4.10-3	Proposed Closure Methodologies and Demonstrated Use in Northern Environments.....	B.4-139
Table B.4.10-4	Campbell and Musselwhite compared to predicted Casino Water Quality Results	B.4-142
Table B.4.10-5	Performance Triggers for Wetland Treatment System Development.....	B.4-144
Table B.4.10-6	Available Load from Sub-Aqueous Casino Pit Wall per Year of Sub-Aerial Exposure (Table 8-10 from Lorax, 2013, Proposal Appendix 7D).....	B.4-155
Table B.4.10-7	Physical Scaling Factors (Table 8-5 from Lorax, 2013, Proposal Appendix 7D).....	B.4-156
Table B.4.10-8	Examples of Gold Heap Leach Operations where Heap Rinsing has been Successfully Implemented.....	B.4-160
Table B.4.10-9	Feasibility Reclamation and Closure Cost Estimate (Updated).....	B.4-171
Table B.4.11-1	Landfill Requirements through Construction, Operations and Closure Phases.....	B.4-175

Table B.6.5-1	Terrain Classification System for British Columbia Codes and Descriptions.....	B.6-15
Table B.6.5-2	Potential Likelihoods of Occurrences of Terrain Instability	B.6-19
Table B.7.1-1	Requests for Supplementary Information Related to Water Quality and Quantity.....	B.7-5
Table B.7.3-1	Water Survey of Canada Data for Yukon River Stations Up and Down Stream from Britannia Creek.....	B.7-13
Table B.7.3-2	Mean Monthly Discharges for Britannia Creek and WSC Stations on the Yukon River	B.7-13
Table B.7.4-1	Distribution of rock types in pit shell and the distribution of static test samples collected from each rock unit broken down by mineralization zone, alteration type, and lithology.	B.7-15
Table B.7.4-2	Casino Mine Schedule by Ore Type, Rock and Alteration Type.....	B.7-16
Table B.7.4-3	Casino Mine Waste Production Schedule by Mineral, Rock and Alteration Type	B.7-18
Table B.7.4-4	Phase I and Phase II samples grouped by pre and post 2010 drill core logging.....	B.7-34
Table B.7.4-5	TMF Waste Materials Staging and Estimated Saturation	B.7-36
Table B.7.4-6	Annual waste rock production schedule of HYP and SUP with little or no available NP (A-SUP) and the ratio of HYP to A-SUP	B.7-39
Table B.7.4-7	Annual waste rock production schedule of HYP and total SUP and the ratio of HYP to SUP	B.7-39
Table B.7.4-8	Number of SFE samples by mineralization, alteration and lithology.....	B.7-40
Table B.7.4-9	Shake flask extraction results for the CAP mineralization zone compared to CCME and MMER guidelines	B.7-41
Table B.7.4-10	Shake flask extraction results for the SOX mineralization zone compared to CCME and MMER guidelines	B.7-42
Table B.7.4-11	Shake flask extraction results for the SUS mineralization zone compared to CCME and MMER guidelines	B.7-43
Table B.7.4-12	Shake flask extraction results for the HYP mineralization zone compared to CCME and MMER guidelines	B.7-44
Table B.7.4-13	Shake flask extraction results for the CAP mineralization zone with ARG alteration compared to CCME and MMER guidelines	B.7-45
Table B.7.4-14	Shake flask extraction results for the CAP mineralization zone with PHY alteration compared to CCME and MMER guidelines	B.7-46
Table B.7.4-15	Shake flask extraction results for the CAP mineralization zone of WR lithology compared to CCME and MMER guidelines	B.7-47
Table B.7.4-16	Shake flask extraction results for the CAP mineralization zone of PP lithology compared to CCME and MMER guidelines	B.7-48
Table B.7.4-17	Shake flask extraction results for the CAP mineralization zone of IX lithology compared to CCME and MMER guidelines	B.7-49
Table B.7.4-18	Shake flask extraction results for the CAP mineralization zone of MX lithology compared to CCME and MMER guidelines	B.7-50
Table B.7.7-1	Concurrent radium-226 and Uranium Concentrations on September 7, 2011	B.7-68
Table B.7.7-2	Concurrent radium-226 and Uranium Concentrations for Field Bin samples	B.7-68
Table B.8.1-1	ARR No.2 Requests for Supplementary Information Related to Air Quality	B.8-1

Table B.8.2-1	Model Documentation Provided for the Air Quality Model	B.8-2
Table B.8.2-2	Monthly Wind Speed at the Project Site Climate Station 2008-2012.....	B.8-3
Table B.8.2-3	Directional Wind Speed at the Project Site Climate Station 2008-2012	B.8-3
Table B.8.3-1	Total Particulate Matter Emissions during Peak Construction Year	B.8-10
Table B.8.3-2	Total Particulate Matter Emission During Operations	B.8-12
Table B.8.3-3	Wind Erosion Emissions.....	B.8-15
Table B.8.3-4	Blasting Emissions	B.8-15
Table B.8.3-5	Unpaved Road Emissions	B.8-16
Table B.9.1-1	ARR No.2 Requests for Supplementary Information Related to Noise	B.9-1
Table B.9.2-1	Noise Sources During Construction and Operations (Total Sound Pressure Levels and Octave Band Spectrum)	B.9-3
Table B.9.2-2	Permissible Exposure Values (YWCHSB, 2006).....	B.9-5
Table B.9.2-3	Typical Sound Levels (A-weighted decibels)	B.9-6
Table B.10.1-1	ARR No.2 Requests for Supplementary Information Related to Fish and Aquatic Resources	B.10-1
Table B.10.2-1	Estimated In-stream Habitat Loss	B.10-16
Table B.10.2-2	Estimated Riparian Habitat Loss.....	B.10-17
Table B.10.4-1	Rationale for Non-Fish-Bearing Status along the proposed Freegold Upgrade, Extension, and Airstrip and Airstrip Road	B.10-19
Table B.10.4-2	Guide to Fish and Fish Information in Casino Creek, Upper Dip Creek, and Upper Canadian Creek as presented in Figure A.10.4-9	B.10-23
Table B.11.1-1	Requests for Supplementary Information Related to Rare Plant and Vegetation Health	B.11-1
Table B.12.1-1	Requests for Supplementary Information Related to Wildlife	B.12-2
Table B.12.2-1	Summary of initiatives related to caribou and thinhorn sheep	B.12-5
Table B.12.3-1	Change in caribou late winter habitat quality due to Project effects in the RSA	B.12-13
Table B.12.3-2	Summary of observations of wildlife sign by species along the proposed water pipeline route	B.12-24
Table B.12.3-3	Summary of PDA Monitoring Programs by Project Phase.....	B.12-25
Table B.12.3-4	Projected Traffic Volumes during the Operations Phase	B.12-29
Table B.12.3-5	Grizzly bear licensed harvest and conflict bear kills by sex in GMAs that intersect the Project (2005-2014).....	B.12-30
Table B.12.3-6	Average annual grizzly bear mortality (2005–2014) compared to 3% and 4% annual allowable harvest estimates by sex.....	B.12-32
Table B.12.3-7	Projected Traffic Volumes during the Operations Phase	B.12-32
Table B.12.3-8	Collared Pika Monitoring: Presence.....	B.12-33

Table B.12.4-1	Summary of key indicators and species/communities used to assess the effects of the proposed Project on birds, including BCR4 priority designation and national conservation status	B.12-47
Table B.12.4-2	Change in Rusty Blackbird Habitat Quality Due to Project Effects in the LSA	B.12-48
Table B.12.4-3	Summary of alpine ecosites within the Casino Project local study area (LSA).....	B.12-49
Table B.12.4-4	Mitigations for identified bird species	B.12-49
Table B.12.4-5	Open Pit, TMF Pond and TMF Spillway Water Quality during TMF Discharge and Pit Discharge phases	B.12-54
Table B.14.1-1	Requests for Supplementary Information Related to Employability	B.14-1
Table B.14.3-1	Labour Force in LSA Communities, 2011	B.14-3
Table B.14.3-2	Estimated Population Changes	B.14-4
Table B.15.1-1	Requests for Supplementary Information Related to Employment and Income	B.15-1
Table B.16.1-1	Requests for Supplementary Information Related to Community Vitality	B.16-1
Table B.16.2-1	Community Vitality Indicators and Measures	B.16-2
Table B.16.2-2	Summary of Consultation Events where the Topic of Community Well-Being was discussed.....	B.16-6
Table B.18.1-1	Requests for Supplementary Information Related to Cultural Continuity	B.18-1
Table B.18.4-1	Pre-Submission Summary of Consultation with Selkirk First Nation Regarding TKTLU Studies	B.18-9
Table B.18.4-2	2014 – 2015 Summary of Consultation with Selkirk First Nation Regarding TKTLU Studies	18-12
Table B.18.4-3	Pre-Submission Summary of Consultation with Little Salmon/Carmacks First Nation Regarding TKTLU Studies	B.18-14
Table B.18.4-4	2014-2015 Summary of Consultation with Little Salmon/Carmacks First Nation Regarding TKTLU Studies	B.18-15
Table B.18.4-5	Preliminary Access Route Concepts	B.18-32
Table B.18.4-6	Summary of Effects on Traditional Land Use and Significance	B.18-39
Table B.21.1-1	Requests for Supplementary Information Related to Accidents and Malfunctions	B.21-1
Table B.21.2-1	Risk Assessment for Hazardous Material Spills or Explosion.....	B.21-5
Table B.21.2-3	Project Components or Activities as Candidate Sources of Contamination or Environmental Stress with Relevance to Human Health.....	B.21-1
Table B.21.2-4	Summary of Communication with Emergency Services Providers	B.21-9

LIST OF FIGURES

Figure B.1.2-1	Corporate, Regulatory and Engineering Review throughout Mine Life.....	B.1-3
Figure B.2.2-1	Trapping Concessions within 500 m Buffer Zone	B.2-4
Figure B.2.2-2	Outfitting Concessions within 500 m Buffer Zone	B.2-9
Figure B.2.3-1	Placer and Quartz Claims within 500 m Buffer Zone	B.2-11
Figure B.4.2-1	Inputs, Deliverables and Review of Design Refinements over the Mining Life Cycle	B.4-19
Figure B.4.5-1	Carmacks By-Pass Route Showing Temporary Route Through Carmacks	B.4-48
Figure B.4.5-2	Freegold Temporary Construction Camp Preliminary Location.....	B.4-60
Figure B.4.5-3	Big Creek Bridge Area.....	B.4-61
Figure B.4.5-4	Yukon Highway Schematic and 2011 Traffic Volumes (Yukon Government, 2011).....	B.4-65
Figure B.4.5-5	Vehicle Traffic Measured at Alaska Highway km 1435.2 (North Klondike Junction) and added Casino Vehicles (Highway Data from 1990 – 2011)	B.4-67
Figure B.4.5-6	Calculated Average and Casino Truck Traffic at Alaska Highway km 1435.2 (North Klondike Junction).....	B.4-67
Figure B.4.5-7	Vehicle Traffic Measured at Alaska Highway km 1001.5 (Cassiar Jct. South Side) and added Casino Vehicles (Highway Data from 1991 – 2011)	B.4-68
Figure B.4.5-8	Calculated Average and Casino Truck Traffic at Alaska Highway km 1001.5 (Cassiar Jct. South Side)	B.4-69
Figure B.4.5-9	Vehicle Traffic Measured at Klondike Highway km 280 (Braeburn) and added Casino Vehicles (Highway Data from 1991 – 2011)	B.4-70
Figure B.4.5-10	Calculated and Casino Truck Traffic at Klondike Highway km 280 (Braeburn).....	B.4-70
Figure B.4.5-11	Vehicle Traffic Measured at Klondike Highway km 106.3 (Carcross – South Side) (Highway Data from 1991 – 2011)	B.4-72
Figure B.4.5-12	Calculated and Casino Truck Traffic on Klondike Highway km 106.3 (Carcross – South Side)	B.4-72
Figure B.4.6-1	Heap Leach Facility Water Management Plan.....	B.4-78
Figure B.4.8-1	Low Permeability Material Borrow Areas	B.4-98
Figure B.4.8-2	Filter and Transition Zone Material and General Fill Borrow Areas	B.4-99
Figure B.4.8-3	Aggregate Borrow Areas	B.4-100
Figure B.4.8-4	Confinement Berm Construction	B.4-111
Figure B.4.8-5	Sand Cell Compaction.....	B.4-112
Figure B.4.8-6	Cyclone Sand Deposition Schematic.....	B.4-113
Figure B.4.9-1	Future Process Plant (and LNG facility) location	B.4-125
Figure B.4.9-2	Rendering of Proposed Process Plant overlain on Actual Topography	B.4-125
Figure B.4.9-3	LNG Storage Separation Distance to Forested Area.....	B.4-127

Figure B.4.10-1	Monthly Flow Rate in Casino Creek at H18 (Realization #1).....	B.4-150
Figure B.4.10-2	Modelled Copper Concentration at H18 and W4 (Realization #1).....	B.4-151
Figure B.4.10-3	Modeled Pit Wall Failure Areas.....	B.4-155
Figure B.4.10-4	Rate that HYP wall rock becomes depleted in NP as a function of exposure time (Figure 8-7 from Lorax, 2013, Proposal Appendix 7D).....	B.4-157
Figure B.4.10-5	Rate that SUP wall rock becomes depleted in NP as a function of exposure time (Figure 8-8 from Lorax, 2013, Proposal Appendix 7D).....	B.4-157
Figure B.4.10-6	Effect of Pit Wall Failure on pH.....	B.4-158
Figure B.4.10-7	Effect of Pit Wall Failure on Sulphate Concentration.....	B.4-158
Figure B.4.10-8	Effect of Pit Wall Failure on Cadmium Concentration.....	B.4-159
Figure B.4.10-9	Effect of Pit Wall Failure on Copper Concentration.....	B.4-159
Figure B.4.10-10	Effect of Pit Wall Failure on Selenium Concentration.....	B.4-159
Figure B.4.10-11	Typical Dam Cross-Section for the Water Management Pond.....	B.4-165
Figure B.4.10-12	Geotechnical Investigations in the WMP area (1994 – 2011).....	B.4-167
Figure B.4.10-13	Geotechnical Investigations in the WMP area (2012).....	B.4-167
Figure B.4.11-1	Proposed Landfill Location.....	B.4-176
Figure B.6.1-1	Requests for Supplementary Information Related to Terrain Features.....	B.6-1
Figure B.6.4-1	Ground Temperature with Depth at 94-321.....	B.6-9
Figure B.6.4-2	Ground Temperature with Depth at 94-331.....	B.6-10
Figure B.6.4-3	Ground Temperature with Depth at 94-334.....	B.6-10
Figure B.6.4-4	Ground Temperature with Depth at 94-344.....	B.6-11
Figure B.6.4-5	Ground Temperature with Depth at 94-349.....	B.6-11
Figure B.6.4-6	Ground Temperature with Depth at 94-355.....	B.6-12
Figure B.6.4-7	Ground Temperature with Depth at DH12-03.....	B.6-12
Figure B.6.4-8	Hydrogeological Monitoring Locations.....	B.6-14
Figure B.7.2-1	Statistical Evaluation of Conductivity for Stations W4, W5 and W16.....	B.7-7
Figure B.7.2-2	Statistical Evaluation of Sulphate for Stations W4, W5 and W16.....	B.7-8
Figure B.7.2-3	Statistical Evaluation of Fluoride for Stations W4, W5 and W16.....	B.7-8
Figure B.7.2-4	Statistical Evaluation of Cadmium for Stations W4, W5 and W16.....	B.7-9
Figure B.7.2-5	Statistical Evaluation of Copper for Stations W4, W5 and W16.....	B.7-9
Figure B.7.2-6	Statistical Evaluation of Iron for Stations W4, W5 and W16.....	B.7-10
Figure B.7.2-7	Statistical Evaluation of Molybdenum for Stations W4, W5 and W16.....	B.7-10
Figure B.7.2-8	Statistical Evaluation of Selenium for Stations W4, W5 and W16.....	B.7-11
Figure B.7.2-9	Statistical Evaluation of Uranium for Stations W4, W5 and W16.....	B.7-11
Figure B.7.2-10	Statistical Evaluation of Zinc for Stations W4, W5 and W16.....	B.7-12

Figure B.7.3-1	Cross Sections of the Yukon River at Eagle, Alaska	B.7-14
Figure B.7.4-1	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH by mineralization zone	B.7-23
Figure B.7.4-2	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH by alteration	B.7-24
Figure B.7.4-3	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH by lithology.....	B.7-25
Figure B.7.4-4	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of lithologies in the HYP mineralization zone.....	B.7-26
Figure B.7.4-5	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of alteration types in the HYP mineralization zone	B.7-27
Figure B.7.4-6	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of lithologies in the SUS mineralization zone.....	B.7-28
Figure B.7.4-7	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of alteration types in the SUS mineralization zone	B.7-29
Figure B.7.4-8	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of lithologies in the SOX mineralization zone.....	B.7-30
Figure B.7.4-9	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of alteration types in the SOX mineralization zone	B.7-31
Figure B.7.4-10	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of lithologies in the CAP mineralization zone.....	B.7-32
Figure B.7.4-11	Box and whisker plots for CaNP, NPR (CaNP/T-AP), T-S and rinse & paste pH of alteration types in the CAP mineralization zone	B.7-33
Figure B.7.5-1:	Comparison Between Groundwater Model Recharge Zones and Inferred Spatial Distribution of Permafrost Zones.....	B.7-55
Figure B.7.5-2	MODPATH Delineation of Open Pit Capture Zone	B.7-57
Figure B.7.6-1	Comparison of 2013-2014 Median pH to the 2008-2012 Baseline Dataset	B.7-59
Figure B.7.6-2	Comparison of 2013-2014 Median Alkalinity to the 2008-2012 Baseline Dataset.....	B.7-59
Figure B.7.6-3	Comparison of 2013-2014 Median Hardness to the 2008-2012 Baseline Dataset.....	B.7-60
Figure B.7.6-4	Comparison of 2013-2014 Median Conductivity to the 2008-2012 Baseline Dataset	B.7-60
Figure B.7.6-5	Comparison of 2013-2014 Median TSS to the 2008-2012 Baseline Dataset.....	B.7-61
Figure B.7.6-6	Comparison of 2013-2014 Median Nitrate to the 2008-2012 Baseline Dataset	B.7-61
Figure B.7.6-7	Comparison of 2013-2014 Median TOC to the 2008-2012 Baseline Dataset	B.7-62
Figure B.7.6-8	Comparison of 2013-2014 Median Fluoride to the 2008-2012 Baseline Dataset.....	B.7-62
Figure B.7.6-9	Comparison of 2013-2014 Median Sulphate to 2008-2012 the Baseline Dataset.....	B.7-63
Figure B.7.6-10	Comparison of 2013-2014 Median Total Copper to the 2008-2012 Baseline Dataset.....	B.7-63
Figure B.7.6-11	Comparison of 2013-2014 Median Total Aluminum to the 2008-2012 Baseline Dataset....	B.7-64

Figure B.7.6-12	Comparison of 2013-2014 Median Total Iron to the 2008-2012 Baseline Dataset.....	B.7-64
Figure B.7.6-13	Comparison of 2013-2014 Median Total Cadmium to the 2008-2012 Baseline Dataset	B.7-65
Figure B.7.6-14	Comparison of 2013-2014 Median Total Lead to the 2008-2012 Baseline Dataset.....	B.7-65
Figure B.7.6-15	Comparison of 2013-2014 Median Total Zinc to the 2008-2012 Baseline Dataset	B.7-66
Figure B.7.6-16	Comparison of 2013-2014 Median Total Silver to the 2008-2012 Baseline Dataset.....	B.7-66
Figure B.7.6-17	Comparison of 2013-2014 Median Total Uranium to the 2008-2012 Baseline Dataset	B.7-67
Figure B.7.7-1	Modelled Uranium Water Quality in the TMF	B.7-69
Figure B.7.7-2	Modelled Uranium Water Quality in the WMP.....	B.7-70
Figure B.7.8-1	Stacked Core Storage at Casino Project Site	B.7-70
Figure B.8.2-1	Wind Rose for Project Wind Data 2008-2012	B.8-4
Figure B.8.2-2	Wind Data Distribution 2008-2012	B.8-5
Figure B.9.2-1	Anticipated Traffic through Carcross with Casino Trucks (Highway Data from 1991 – 2011).....	B.9-8
Figure B.10.2-1	Overview Map of the Casino Project.....	B.10-7
Figure B.10.2-2	Freegold Road Upgrade Fish Presence/Absence (Map 1).....	B.10-8
Figure B.10.2-3	Freegold Road Upgrade Fish Presence/Absence (Map 2).....	B.10-9
Figure B.10.2-4	Freegold Road Upgrade Fish Presence/Absence (Map 3).....	B.10-10
Figure B.10.2-5	Freegold Road Extension Fish Presence/Absence (Map 1).....	B.10-11
Figure B.10.2-6	Freegold Road Extension Fish Presence/Absence (Map 2).....	B.10-12
Figure B.10.2-7	Freegold Road Extension Fish Presence/Absence (Map 3).....	B.10-13
Figure B.10.2-8	Airstrip and Airstrip Access Road Fish Presence/Absence	B.10-14
Figure B.10.4-1	Casino Creek Fish and Aquatic Resources Baseline Summary Map.....	B.10-22
Figure B.10.5-1	Flow time series for station H18, Middle Casino Creek.	B.10-29
Figure B.10.5-2	Average September Water Surface Elevations (WSE) at Low Gradient Riffle LGR347 ...	B.10-30
Figure B.10.5-3	Average September Water Surface Elevations (WSE) at Low Gradient Riffle LGR345 ...	B.10-30
Figure B.10.5-4	Average September Water Surface Elevations (WSE) at Low Gradient Riffle LGR343 ...	B.10-31
Figure B.10.5-5	Average September Water Surface Elevations (WSE) at Low Gradient Riffle LGR185 ...	B.10-31
Figure B.10.5-6	Average September Water Surface Elevations (WSE) at Low Gradient Riffle LGR182 ...	B.10-32
Figure B.10.6-1	Sample Culvert and Embedment Detail	B.10-36
Figure B.11.2-1	Airstrip Plan View Section	B.11-4
Figure B.11.2-2	Air Strip Plan View.....	B.11-5
Figure B.11.2-3	Airstrip Diversion Channel: Concept Design	B.11-6
Figure B.12.3-1	Klaza caribou herd late winter habitat at Project maximum disturbance	B.12-14
Figure B.12.3-2	Comparison of the Wildlife Zone of Influence to the Noise Levels of the Casino Mine during Daytime Operation	B.12-16

Figure B.12.3-3	Theoretical zone of influence	B.12-18
Figure B.12.3-4	Fortymile Caribou Herd Range	B.12-21
Figure B.12.3-5	Yukon River water pipeline alignment wildlife detections and trail locations	B.12-26
Figure B.12.3-6	Collared pike observations and suitable habitat	B.12-34
Figure B.12.3-7	Wolverine detections during the snow tracking surveys	B.12-36
Figure B.12.3-8	Dall's Sheep Regional Distribution	B.12-43
Figure B.12.3-9	Dawson range sheep distribution and flight routes to the Casino Project	B.12-45
Figure B.12.4-1	Pollutant Removal Mechanisms in Constructed Wetlands (UN-HABITAT, 2008)	B.12-52
Figure B.12.5-1	Schematic of the Adaptive Wildlife Mitigation and Monitoring Process	B.12-59
Figure B.18.3-1	Heritage Resource Mitigation Measure Implementation throughout Mine Life	B.18-5
Figure B.18.4-1	Archaeologically Assessed Areas and Access Points to Areas of Cultural Significance to LSCFN (Map 1 of 2)	B.18-21
Figure B.18.4-2	Archaeologically Assessed Areas and Access Points to Areas of Cultural Significance to LSCFN (Map 2 of 2)	B.18-22
Figure B.18.4-3	Traditional Land Use: Places of Cultural Importance	B.18-23
Figure B.18.4-4	Hunting Game Management Subzones and Traditional Hunting Areas	B.18-25
Figure B.18.4-5	Trapping Concessions	B.18-27
Figure B.18.4-6	Traditional Fishing Areas	B.18-29
Figure B.21.2-1	HHRA Conceptual Model for Noise Exposures	B.21-5
Figure B.21.2-2	HHRA Conceptual Model for Human Exposures Associated with Air Emissions	B.21-6
Figure B.21.2-3	HHRA Conceptual Model for Human Exposures Associated with Trace Element Uptake on TMF and Treatment Wetland	B.21-6

APPENDICES

Appendix B.1A Concordance Table to the Executive Committee's Request for Supplementary Information

Appendix B.4A Guide to the Management of the Casino Tailings Facility

Appendix B.4B Mine Waste Management Alternatives Assessment

Appendix B.4C Tailings Management Facility Dam Breach Inundation Study

Appendix B.4D Tailings Management Operation, Maintenance and Surveillance Manual

Appendix B.4E 2014 and 2015 Geotechnical Testing of Leach Ore

Appendix B.4F Ore Characterization

Appendix B.4G Review and Updates to the Conceptual Wetland Water Treatment Design

Appendix B.6A Fluvial Geomorphology report (Appendix 6E) missing Tables and Figures

Appendix B.7A Updated Baseline Water Quality Statistics

Appendix B.8A Air Quality Results (Digital Files)

Appendix B.18A Heritage Resource Management Plan

ABBREVIATIONS

AAH	annual allowable harvest
ANFO	ammonium nitrate/fuel oil
ARR	Adequacy Review Report
BB	burbot
BC	Province of British Columbia
BLEVE	boiling liquid expanding vapor explosion
BMP	Best management practices
CCG	slimy sculpin
CCME	Canadian Council of Ministers of the Environment
CCRP	Conceptual Closure and Reclamation Plan
CDA	Canadian Dam Association
CH	juvenile Chinook salmon
CMC	Casino Mining Corporation
CMHC	Canadian Mortgage and Housing Corporation
CO	carbon monoxide
CO ₂	carbon dioxide
COI	Communities of Interest
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPUE	catch per unit effort
CRA	commercial, recreational and Aboriginal
CTFN	Carcross Tagish First Nation
CWBI	Community Well-Being Index
dBA	A-weighted decibel (sound pressure)
DEM	Digital elevation models
DFO	Department of Fisheries and Oceans Canada
EMR	Yukon Government Department of Energy, Mines and Resources
EMS	Emergency Medical Services
EOR	Engineer of Record
EPA	U.S. Environmental Protection Agency
ERP	Emergency Response Plan
FHOP	Fish Habitat Offsetting Plan
FHWA	United States Federal Highways Administration
FMEA	Failure Modes and Effects Analysis
FN	First Nations
GHG	Greenhouse Gases
GIS	Geographic information system
GMA	Game management area
GMS	game management subzone
GPR	Ground penetrating radar
GR	Arctic Grayling
HDPE	high density polyethylene
HEP	Habitat Evaluation Procedure

HLF	Heap leach facility
HLF	heap leach facility
HPW	Highways and Public Works
ICMC	International Cyanide Management Code
ICOLD	the International Commission of Large Dams
IDF	inflow design flood
IERP	Independent Engineering Review Panel
ISSMGE	International Society for Soil Mechanics and Geotechnical Engineering
ITRC	Interstate Technology Research Council
KCB	Klohn Crippen Berger
KCH	Klaza caribou herd
LDRS	Leak Detection and Recovery System
Leq	Average weighted sound levels
LLDPE	Linear low-density polyethylene
LNG	Liquefied natural gas
LNG	liquefied natural gas
LSA	Local Study Area
LSCFN	Little Salmon/Carmacks First Nation
MAA	Mutual Aid Agreement
MAC	Mining Association of Canada
MDE	maximum design earthquake
MEND	Mine Environment Neutral Drainage Program
MiHR	Mining Industry Human Resources Council
MMER	Metal Mine Effluent Regulations
MOE	BC Ministry of Environment
MSDS	material safety data sheets
NAG	Non-Potentially Acid Generating
NFC	No fish caught
NFPA	National Fire Protection Association
NMP	Northern mountain population
NOx	nitrogen oxide compounds
NP/AP	Neutralization Potential/Acid Production Potential
NPR	neutralization potential ratio
NRCan	Natural Resources Canada
NS	Not sampled
NWT	Northwest Territories
OBE	operating basis earthquake
OGC	British Columbia Oil and Gas Commission
OM&S	Operating, Maintenance & Surveillance Manual
P&ID	process and instrumentation diagrams
PAG	Potentially acid generating
PAG	potentially acid generating
PDA	Potential Disturbance Area
PFD	process flow diagrams
PHABSIM	Physical Habitat Simulation
PM10	inhalable particulate

PM2.5	respirable particulate
PMF	probable maximum flood
PMP	Permafrost Management Plan
PSL	permissible sound level
PTDRLGRR	Provincial and Territorial Departments Responsible for Local Government, Resiliency and Recovery Project Committee
QA/QC	Quality Assurance/Quality Control
QML	Quartz Mining License
QP	Qualified Professional
QP	Qualified Professional
RIC	Resource Inventory Committee
RoW	right of way
RSA	Regional study area
RSF	resource selection analysis
RSPF	resource selection probability function
SARA	Species at Risk Act
SEMP	Socio-Economic Management Plan
SFN	Selkirk First Nation
SIA	Social Impact Assessment
SIR	Supplementary Information Report
STI	Sexually transmitted infection
the Project	Casino Project
THFN	Tr'ondëk Hwëch'in First Nation
TK	Traditional Knowledge
TLU	Traditional land use
TMF	Tailings Management Facility
TPM	total particulate matter
TSF	Tailings storage facility
TSP	total suspended particulate
UBC	University of British Columbia
VC	Valued Component
WMMP	Wildlife Mitigation and Monitoring Plan
WMP	Water management pond
WQG	Water quality guidelines for the protection of aquatic life
WRFN	White River First Nation
WSC	Water Survey of Canada
YCDC	Yukon Conservation Data Centre
YESAA	Yukon Environmental and Socio-Economic Assessment Act
YESAB	Yukon Environmental and Socio-Economic Assessment Board
YG	Yukon Government
YG	Yukon Government
YISC	Yukon Invasive Species Council
ZOI	Zone of Influence