

Synopsis Chart

Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised
Dene *1 Dogrib (Treaty 11)	Rae-Edzo	07/07/92	15+ community members	Dogrib Treaty 11 Dene Band Council meeting	Extensive staking, future land claim negotiations, reclamation, traditional knowledge, hunting and fishing, training, project overview
	2 Wha Ti	08/24/92	300	Treaty 11 annual assembly	Introduction, BHP history, exploration overview
	3 Rae-Edzo	05/14/93	40	Update of NWT Diamonds Project	Project overview and update; slide presentation
	4 Yellowknife	07/15/93	12	Dinner for Dogrib, Gov't Ministers	Introductory, held by Brian Loton
	5 Snare Lake	09/09/93	40	Snare River Hydroelectric Development	Dam renaming ceremony
	6 Field Trip to New Mexico	12/1-3/93	30	Visit BHP's New Mexico Coal Mine Operations (Navajo Nation)	BHP's working relationship with local indigenous peoples
	7 Yellowknife	02/21/94	34	Dinner meeting with government and leaders of both Treaty 8 and Treaty 11 councils with BHP's CEO	Introduction to BHP's senior management
	8 Yellowknife	03/08/94	23	Dinner meeting	Employment and training, business opportunities, option for equity participation, power supply, education, scholarships, summer employment, heritage site preservation, cultural development, water quality, fish quality, caribou migration, communications
	9 Field Trip to Mine Site (Koala)	03/10/94	24	To show NWT Diamonds Project exploration work to representatives of the Treaty 11 Dogrib Dene	Presentation made, visit to Koala drill site, visit to underground Fox portal, environmental concerns discussed
	10 Rae-Edzo	03/19/94	106	Community meeting	Explanation of NWT Diamonds Project, proposed development of Koala, Fox, Leslie and Panda diamond pits, permitting processes, environmental baseline studies and proposed environmental management plan for NWT Diamonds Project, cultural considerations, prevention of disruption to heritage sites and burial grounds, concerns about status of ongoing land claims with gov't
	11 Snare Lake	04/26/94	40	Explanation of advanced exploration work ongoing in the Lac de Gras area; Ensure residents had opportunity to ask questions and express concerns	Development around Lac de Gras may interfere with traditional land use (i.e. hunting, trapping, fishing, caribou migration)

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Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised
Dene *12 Dogrib (Treaty 11)	Wha Ti	04/26/94	70	Explanation of advanced exploration work ongoing in the Lac de Gras area;	Jobs, training, wages, traditional concerns
	13 Field trip to Mine Site (Koala)	04/27/94	12	Mine site visit	Tour of camp facilities in conjunction with community meetings
	14 Rae Lakes	04/27/94	59	Explanation of advanced exploration work ongoing in the Lac de Gras area; Project Presentation and Community Consultation	Concerns about disruptions to traditional lifestyles and renewable resources, wildlife disturbances, net fish populations, strikes (ref. to current strike at Giant Mine), mobilization
	15 Yellowknife	05/03/94	13	IBA negotiations start	Jobs, training, cross-cultural sensitivity
	16 Yellowknife	06/09/94	9	IBA Agreement	Royalties, further information
	17 Rae Lakes	06/21/94	8	Archaeological Research Meeting and Dinner	Discuss archaeological research and traditional considerations
	18 Yellowknife	06/21/94	10	Discussion	Trip to Koala camp, heritage/archaeological sites, caribou migration, traditional knowledge, wildlife protection
	19 Field trip to Mine Site (Koala)	06/23/94	9	Helicopter tour	To mark archaeological sites. Tour in conjunction with meetings re: same with Jean Bussey, archaeologist
	20 Rae-Edzo	06/25/94	150	Chief Jimmy Bruneau School Graduation	Attended by J. Zwaan, H. Zwaan and J. Hillman
	21 Wha Ti	08/24/94	400	Annual general assembly	Local hiring where possible; education, three scholarships announced, traditional knowledge
	22 Field Trip to Mine Site (Koala)	09/26/94	3	Mine site visit	Tour re: developing exploration operations, Dogrib employment and environmental concerns, hunting and traditional environmental concerns
	23 Yellowknife	10/13/94	40	Dinner meeting	To introduce BHP Managing Director and Corporate General Manager to GNWT leaders, Treaty 8 leaders, Yellowknife mayor, representative of member of Parliament, DIAND
	24 Yellowknife	11/30/94	32	Luncheon meeting	Project update, Impact and Benefits Agreement, Dogrib Scholarship
	25 Field Trip to Mine Site (Koala)	12/14/94	12	Mine site visit	Tour by Dogrib Treaty 11 Renewable Resources Committee
Dene *26	Yellowknife	12/15/94	16	Project update meeting	Meeting with Dogrib Treaty 11 Renewable Resources

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Dogrib (Treaty 11)					Committee
27	Yellowknife	02/16/95	14	Band Council meeting	Project update and potential of impact/benefit agreements, traditional knowledge, fishing, employment, training, scholarships, business opportunities, environmental concerns, negative social impacts, power supply, culture/heritage development
28	Field Trip to Mine Site (Koala)	03/20/95	8	Mine site visit/luncheon meeting	Site visit by NWT Power Corp., GNWT and Dogrib Power Corp. cancelled due to weather; luncheon meeting held at Explorer Hotel to discuss project in lieu
29	Rae-Edzo	03/23/95	150+	Science Fair, Chief Jimmy Bruneau School	David Boyd was asked to judge at the Science Fair
30	Rae Lakes	03/28/95	50	Scoping meeting	Caribou, IBA, jobs and training, reclamation, traditional knowledge, land claims, social effects, location of cutting and sorting, slow down the process
31	Wha Ti	03/29/95	60	Scoping meeting	Same as above
32	Vancouver	03/30/95	5	Land claims status	IBA, land claims, traditional knowledge
33	Vancouver	03/31/95	5	Use of Traditional Knowledge	Development of Protocols for Traditional Knowledge use; third party use of traditional knowledge
34	Rae-Edzo	04/04/95	90	Scoping meeting	Same as above
35	Rae	04/05/95	300+	Career day	BHP participated with an information booth at a career day hosted by Chief Jimmy Bruneau School held at the Culture Centre in Rae
36	Wha Ti	04/25/95	39	Community meeting	Project update, Community Mobilization
37	Rae Lakes	04/26/95	44	Community meeting	Project update, Community Mobilization
38	Snare Lake	04/26/95	14	Community meeting	Project update, Community Mobilization
39	Wha Ti	05/10/95	80	Students/Elders workshop	Community Mobilization Workshop facilitated by Barb Brown, Director, Community Development Associates
40	Yellowknife	06/02/95	20	Luncheon meeting	Last meeting with Bruce Turner; introduction of Jim Excell
41	Field Trip to Mine Site (Koala)	06/06/95	16	Mine site visit	Students and teachers from Snare Lake tour the camp and facilities
Dene Dogrib (Treaty 11)	*42 Field Trip to Mine Site (Koala)	06/08/95	16	Mine site visit	Students and teachers from Snare Lake and Rae Lakes tour the camp and facilities

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Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised	
43	Wha Ti	06/13-15/95	150	Healing workshop; Community Mobilization	Second workshop, facilitated by Barbara Brown, Director, Community Development Associates	
Dene (Treaty 8)	44	Dettah	01/06/94	10	Status of NWT Diamonds Project exploration activities	Project overview; trip to New Mexico; burial sites
	45	Yellowknife	02/21/94	34	Dinner (Treaty 8 Chiefs/Elders)	Dinner with CEO of BHP Minerals and BHP Steel
	46	Dettah	03/21/94	12	Community presentation/discussion	Treaty claims, project overview, archaeological research
	47	N'dilo	03/21/94	21	Explanation of project, progress to date and environmental baseline program; also Archaeologist's purpose	Business opportunities, archaeological research, environmental research, negotiations between Treaty 8 Yellowknives Dene and BHP, and traditional knowledge considerations
	48	Field Trip to Mine Site (Koala)	05/16/94	17	Tour of Koala Camp	Tour of the ongoing operations
	49	Yellowknife	06/09/94	11	Meeting/workshop	Traditional knowledge, housing, royalties, air strip, fishing permits, wildlife, pollution, land claims, equity participation, co-existence, native hiring
	50	N'dilo	06/22/94		Meeting	Cancelled at the request of Treaty 8
	51	Dettah	06/22/94		Meeting	Cancelled at the request of Treaty 8
	52	N'dilo	06/29/94	200	Annual assembly	NWT Project, land claims, caribou
	53	Yellowknife	08/25/94	20+	Dinner meeting	Meeting with Navajo delegation and Treaty 8 leaders
	54	Yellowknife	10/13/94	40	Dinner meeting	To introduce BHP Managing Director and Corporate General Manager to GNWT leaders, Treaty 8 leaders, Yellowknife mayor, representative of member of Parliament, DIAND
	55	Farmington, N.M.	10/31-11/02/94	17	Site visit by Treaty 8 Council Members	BHP, jobs, working conditions, organizations, governments, culture
	56	Dettah	12/01/94	15	Discussion	Workshop to discuss all environmental and archaeological concerns; meeting rescheduled for 02/22/95
	57	N'dilo	12/01/94	15	Discussion	Workshop to discuss all environmental and archaeological concerns; meeting rescheduled for 02/23/95

Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised
Dene *58 (Treaty 8)	N'dilo	01/24/95	7	Discussion	Planning meeting for environmental workshops to be held in February/95

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Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised	
59	Field Trip to Mine Site (Koala)	02/18/95	6	To view current exploration operations	Update Treaty 8 and discuss business opportunities, cultural items	
60	N'dilo	02/22/95	0	Environmental workshop	Cancelled at request of Treaty 8 Dene	
61	Dettah	02/22/95	0	Environmental workshop	Cancelled at request of Treaty 8 Dene	
62	Field Trip to Mine Site (Koala)	02/27/95	12	Tour of Koala Camp	Mine Site Tour. Treaty 8 invited Ecology North and Sierra Legal Defense Fund, who accompanied them	
63	Dettah	04/08/95	50	Scoping meeting	Caribou, water quality, IBA, jobs and training, reclamation, traditional knowledge, land claims, social effects, slow down the process, PNG	
64	N'dilo	04/11/95	20	Band council meeting and dinner	Update on project, Community Mobilization	
65	Dettah	05/09/95	12	Band council meeting	Community Mobilization and Informational Briefing	
66	Yellowknife	06/01/95	15	Dinner meeting	Last meeting with Bruce Turner; introduction of Jim Excell	
	Field Trip to Mine Site (Koala)	06/07/95	15	Mine site visit	Students and teachers from Dettah tour the camp and facilities	
68	Lutsel K'e	01/24/95	53	Discussion of project	Disputed land claim, qualified local personnel, Continue communication with community, preservation of wildlife for traditional activities, jobs and training for young people, caribou	
69	Lutsel K'e	04/07/95	55	Scoping meeting	Caribou, water quality, IBA, jobs and training, reclamation, traditional knowledge, land claims, social effects, slow down the process, PNG	
Inuit	70	Coppermine	11/08/94	90	Presentation	Explain proposed NWT Diamonds Project, water quality, caribou migration and calving, employment opportunities, business opportunities and development schedule
	71	Umingmaktok	11/09/94	25	Presentation	Explain proposed NWT Diamonds Project, water quality, caribou migration, separation of families during work rotations
	72	Cambridge Bay	11/09/94	30	Presentation and meetings	Discuss exploration activities, environmental baseline research at NWT Diamonds Project site, water quality, caribou, noise pollution, marketing, jobs
Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised	
Inuit	*73	Coppermine	01/18-	40	Individual discussions	Socioeconomic, traditional lifestyles

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Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised	
		20/95				
74	Coppermine	03/14/95	50	Scoping meeting	Caribou, water quality, IBA, jobs and training, social effects, level of understanding	
75	Umingmaktok	03/15/95	20	Scoping meeting	Caribou, water quality, IBA, jobs and training, social effects, level of understanding	
76	Field Trip Visit to Koala	04/05/95	14	Mine site visit	Representatives of Coppermine, Cambridge Bay and Umingmaktok visited Koala	
77	Field Trip Visit to Koala	04/06/95	13	Mine site visit	Coronation Impact Review Committee (Cambridge Bay/Coppermine)	
Metis	78	Yellowknife	07/14/94	3	Discussion	Employment agency for Aboriginals, support for hockey team, land claims, aboriginal person in Human Resource section/Public Relations
	79	Yellowknife	02/01/95	4	Discussion of Metis Nation with respect to the BHP NWT Diamonds Project	Misery Road Application; contract work; training
	80	Yellowknife	05/03/95	6	Luncheon meeting	Project update, jobs, training, business opportunities, environment, communication
	81	Yellowknife	06/01/95	14	Luncheon meeting	Last meeting with Bruce Turner; introduction of Jim Excell
	82	Yellowknife	03/30/94	400	Open house	Questionnaires distribution, issues answered
	83	Hay River	04/9-10/94	70	Community meeting	Business leaders – project overview
	84	Vancouver	10/14/94	100	Canadian Institute of Mining and Metallurgy conference	Development of a diamond project, update, environmental issues, bulk sampling
	85	Yellowknife	11/22/94	200	Aboriginal Conference on Mining	Participation
	86	Yellowknife	11/23-25/94	200	Geoscience forum	Presentation and participation
	87	Yellowknife	11/30/94	250	Open house	Project update, one-on-one discussions with senior managers
	88	Hay River	03/23-24/95	30	Individual discussions	Socioeconomic meetings with Outcrop
	89	Yellowknife	03/27/95	150	Community meeting @ Explorer Hotel	Advise residents of N'dilo, Dettah and Yellowknife of project and listen to concerns
	90	Hay River	04/03/95	50	Community meeting	Advise residents of project and listen to concerns
Group: Local and Regional Districts	Community	Date	Number of Attendees	Type of Meeting	Purpose/Issues Raised	

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Metis *91	Yellowknife	04/05/95	110	Scoping meeting	Caribou, water quality, IBA, jobs and training, reclamation, traditional knowledge, land claims, northern content, social effects, preserving wilderness experiences
92	Yellowknife	04/06/95	90	Scoping meeting	Same as above

Group: Resource Users	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Guide Outfitters 93	Yellowknife	02/13/95	6	Introductory and informational	Environmental impacts, hunting and fishing
Barren Ground Caribou Outfitters Assoc. 94	Yellowknife	02/17/95	6	Introductory and informational	Environmental impacts, hunting and fishing
HTA 95	Yellowknife	03/02/95	4	Project update and environmental discussion	Environmental impacts, hunting and fishing

Group: Government	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Federal 96	Field trip to Lac de Gras	08/06/93	16	Site tour	DIAND - RERC field trip
97	Field trip to Mine Site (Koala)	03/24/94	10	Mine site tour	DIAND and Canadian Wildlife Service
98	Field trip to Mine Site (Koala)	08/16/94	6	Mine site visit	DIAND mine site tour - Depts of Health, water lab and Social Services
99	Field trip to Mine Site (Koala)	08/28/94	17	Charter tour of diamond exploration sites	DIAND, World Wildlife Fund, CARC, GNWT
100	Field trip to Mine Site (Koala)	10/05/94	6	Mine site tour	Water Resources - DIAND
101	Yellowknife	10/13/94	40	Dinner meeting	To introduce Managing Director and Corporate General Secretary to GNWT leaders, Treaty 11 leaders, Treaty 8 leaders, Yellowknife mayor, representative of member of Parliament, DIAND

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Group: Government	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Federal *102	Field trip to Mine Site (Koala)	03/13/95	16	Site tour	First official tour by EARP Panel
Territorial 103	Yellowknife	07/08/92	4	Introductory and courtesy visit	Hiring and training of aboriginal employees, BHP's environmental record, at both Navajo and Island Copper
104	Yellowknife	02/21/94	34	Dinner meeting	Introduction to BHP's senior management
105	Field trip to Mine Site (Koala)	03/24/94	10	Mine site tour	GNWT Dept. of Renewable Resources, and Canadian Wildlife Service
106	Yellowknife	04/28/94	50	WCB meeting	Presentation, project overview and update
107	Field trip to Mine Site (Koala)	08/16/94	6	Mine site visit	GNWT mine site tour - Depts of Health, water lab and Social Services
108	Field trip to Mine Site (Koala)	08/19/94	1	Site inspection	GNWT Environmental Health Medical Health
109	Field trip to Mine Site (Koala)	08/28/94	17	Tour of operations	DIAND, World Wildlife Fund, CARC, GNWT Tour of operations, update on the project and the environmental baseline study
110	Field trip to Mine Site (Koala)	08/30/94	9	Familiarization trip	Water Board - GNWT
111	Field trip to Mine Site (Koala)	08/31/94	6	Mine site visit	Dept. of Renewable Resources - Wildlife Mgmt. Division, GNWT
112	Yellowknife	09/15/94	7	GNWT Premier Cournoyea, Graham Nicholls, Minister Todd, Minister Pollard, Bob Hickman, B.L. Turner, Karen Azinger	Project update. Discussion centred on royalties and tax payments
113	Field Trip to Mine Site (Koala)	09/21/94	12	Mine site visit	Tour: GNWT deputy ministers and directors
114	Yellowknife	10/13/94	40	Dinner meeting	To introduce Managing Director and Corporate General Secretary to GNWT leaders, Treaty 11 leaders, Treaty 8 leaders, Yellowknife mayor, representative of member of Parliament, DIAND

Group: Government	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
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Territorial* 115	Field Trip to Mine Site (Koala)	03/20/95	8	Mine site visit/luncheon meeting	Site visit cancelled due to bad weather, luncheon meeting at Explorer to provide an update on the project
	116 Field Trip Visit to Koala	04/08/95	12	Mine site visit - NWT Power Corp.	Site inspection tour by NWT Power Corp., GNWT and Dogrib Power Corp.
Municipal	117 Field Trip to Mine Site (Koala)	03/26/94	15	Mine site visit	Hay River business leaders - including deputy mayor and MLA John Pollard
	118 Yellowknife	10/13/94	40	Dinner meeting	To introduce Managing Director and Corporate General Secretary to GNWT leaders, Treaty 11 leaders, Treaty 8 leaders, Yellowknife mayor, representative of member of Parliament, DIAND
	119 Yellowknife	11/30/94	12	Yellowknife mayor and administration	Project update and land use discussion
	120 Vancouver	03/17/95	40	Breakfast meeting	Sponsored by City of Yellowknife for Vancouver Mining Companies. Yellowknife Mayor and city administrators: economic development
	121 Port Hardy	06/21-24/95	10+	Introductory/informational	Mayor of Yellowknife and city administrators met with City of Port Hardy officials to learn about the long relationship BHP has had with Port Hardy

Group: Organizations	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Media Tour 122	Field trip to Mine Site (Koala)	01/05/94	7	Mine site tour	Interviews with employees, environment, jobs, community reaction, employment conditions
Wall Street Journal 123	Field trip to Mine Site (Koala)	03/13/94	1	Mine site tour	Wall Street Journal news editor
Ecology 124 North	Field trip to Mine Site (Koala)	04/19/94	2	Mine site tour	Environmental
Chinese 125 Delegation	Field trip to Mine Site (Koala)	06/08-09/94	15	Mine site tour	Chinese delegation of geological bureau directors, plus Chris Arndt, BHP in China and 3 others

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MIT *126	Field trip to Mine Site (Koala)	08/10/94	2	Mine site tour	Samuel Bowring, MIT, Professor of Geology

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World Wildlife Fund 127	Toronto	08/17/94	6	Informational at WWF Canadian Headquarters in Toronto	Provide Mr. Monte Hummel and his staff with a briefing on the project and listen to their concerns and advice
Media Tour - NWT Press -Canadian128 Int'l Press WWF, 129 CARC	Field trip to Mine Site (Koala)	08/25/94	26	Field trip to mine site (Koala)	Overview of project
	Field trip to Mine Site (Koala)	08/28/94	17	Mine site visit	DIAND, World Wildlife Fund, CARC, GNWT
CBC TV 130 Yellowknife	Field trip to Mine Site (Koala)	09/22/94	2	Mine site visit	Cameraman and journalist for "Focus North"
CBC French TV Le Point 131	Field trip to Mine Site (Koala)	09/27/94	3	Mine site visit	TV crew for "Le Point"
CBC Radio132	Field trip to Mine Site (Koala)	11/10/94	6	Mine site tour, first Lear jet lands at Koala First 727 lands at Koala	CBC "Sunday Morning" presentation/tour
Yellowknife133 Business and Professional Women's Assoc.	Yellowknife	02/15/95	25	Presentation/video tape by Mrs. J. Hillman	Update on the project, women in the work force, experiences working for BHP
Native Journal 134	Field trip to Mine Site (Koala)	03/07/95	1	Mine site tour and presentation	Alan Beaver, freelance Native journalist, presentation, tour and individual interviews with Aboriginal employees
Native Journal 135	Yellowknife	03/08/95	1	Project overview	Alan Beaver - training, employment, environment, EARP, individual interviews with Aboriginal employees
Prospectors and Developers Conference 136	Toronto	03/08-10/95	750	Conference/Information Booth in Yellowknife display area	General inquiries from public re: EARP process, environmental and economic issues

Group: Organizations	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Ecology *137 North and Sierra Legal Defense Fund	Field trip to Mine Site (Koala)	02/27/95	12	Mine site tour	Environmental; Ecology North invited by Treaty 8
Ecology 138	Yellowknife	03/30/95	50	Presentation/Discussion (BHP was	Environmental impacts of mineral development,

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North				panel member	ecological sustainable development
RCMP 139	Field trip to Mine Site (Koala)	05/02/95	9	Mine site visit	To look at using our facilities in case of a disaster in the area
Business Associations					
Hay River 140	Field trip to Mine Site (Koala)	03/26/94	17	Hay River Community Leaders, Deputy Mayor - mine site visit	Overview of project
NWT 141 Chamber of Commerce	Field trip to Mine Site (Koala)	04/08/94	30	Mine site visit	Project overview/site tour
Yellowknife 142 Chamber of Commerce	Field trip to Mine Site (Koala)	08/18/94	30	Mine site visit	Project overview/site tour
Alberta 143 Chamber of Resources	Edmonton	11/17/94	25	Informational meeting	Project overview
Yellowknife 144 Chamber of Commerce	Yellowknife	11/30/94	8	Project overview	Discussion of EARP approval process and the NWT Diamonds Project
145	Yellowknife	12/01/94	9	Project update and presentation	Environmental issues, EARP approval process, possible start-up delay, Yellowknife economy and effect NWT Diamonds Project has had to date

Group: Organizations	Community	Date	No. of attendees	Type of meeting	Purpose/Issues raised
Yellowknife *146 Chamber of Commerce	Yellowknife	01/05/95	4	Project overview and EARP approval process	EARP scoping meetings, Yellowknife as point of hire, timing of first production
NWT 147 Chamber of Commerce	Yellowknife	01/14/95	20	Presentation/informational meeting	Project overview
Yellowknife 148 Chamber of Commerce	Yellowknife	03/01/95	150	Breakfast meeting	Project overview, EARP approval process, Yellowknife economy, employment issues, environmental baseline work, northern content

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Glossary and Abbreviations

Glossary

Abiotic Factors	Environmental influences that arise from non-living entities, e.g., climate.
Ablation Till	Unstratified rock material resulting from ablation processes that cause the accumulation of debris on the ice surface.
Aggrade	To spread or grow (permafrost).
Air Contaminant	Any solid, liquid, gas or odour, or combination thereof, which, if emitted into the air, would create or contribute to the creation of air pollution.
Air Pollution	A condition of the air, arising wholly or partly from the presence of one or more air contaminants, that endangers the health, safety or welfare of persons; interferes with normal enjoyment of life or property; endangers the health of animal life; or causes damage to plant life or to property.
Allochthonous	Materials formed elsewhere than in their present place.
Alluvial	Clay, silt, sand and gravel material deposited by running water.
Ambient Air Quality	The surrounding air quality present at a particular site.
Amorphous	Substances lacking any crystal structure or order; usually used with reference to oxides or organic matter.
Anthropogenic	Caused by human activity.
Appendages	Any considerable projections from the body of an animal.
Arctic Air Inversion	A layer in the troposphere in which there is an increase in air temperature with height. This differs from normal conditions in which temperature decreases with height from the surface.

Atmospheric Stability	The ability of the atmosphere to resist or enhance vertical motion.
Audiometric Testing	A series of tests to determine a person's auditory threshold for a given stimulus.
Authigenic	A mineral formed by precipitation within the water column or sediments, as opposed to mineral(s) imported from erosion elsewhere.
Back	The ceiling or roof of an underground mine opening.
Backfill	Waste rock material used to fill the void created by mining an ore body.
Basal Till	Unsorted glacial debris at the base of the soil column where it comes into contact with the bedrock below.
Basic Rock	An igneous rock, relatively low in silica and composed mostly of dark-coloured minerals.
Bedrock	The more-or-less solid, undisturbed rock in place either at the ground surface or beneath superficial deposits of gravel, sand or soil.
Bedrock Geology	The study of the origin, composition, structure and history of bedrock.
Benthic	Pertaining to the bottom region of a water body.
Benthos	Assemblage of animals living in or on the bottom sediments of a lake and dependent upon the decomposition cycle for most if not all of its basic food supply.
Bifaces	A stone tool used by ancient peoples. A type of artifact that has been chipped from a larger stone on both sides.
Biodiversity	The variety of organisms that exist on the planet and the varieties within these species and the ecosystems they inhabit.
Biogenic	Arising from or associated with biological sources.
Blasthole	A hole drilled for purposes of blasting rather than to obtain exploration or geological information.

Bulk Sample	A large sample of mineralization, frequently involving hundreds of tonnes, selected in such a manner as to be representative of the potential ore body being sampled. Used to determine metallurgical characteristics, verify grade and obtain diamond quality information.
Carat	A unit of weight for precious stones (200 milligrams).
Carnivore	A flesh-eating mammal.
Catch Per Unit Effort (CPUE)	The number of fish caught per 24-h soak time per 100 m of gillnet; or per 24-h soak time for trapnets.
Cilia	Fine cytoplasmic threads projecting from the surface of a cell.
Clarification	Process of cleaning dirty water by removing suspended material.
Classify	A mineral process that separates minerals according to size and destiny.
Climatology	The study of the long-term, prevailing weather conditions in a given area.
Concentrate	The product of the crushing, grinding and cleaning process contains valuable mineral and from which most of the waste material in the ore has been eliminated and discarded as tailings.
Core	A long, cylindrical piece of rock recovered by diamond drilling.
Crater	A circular depression formed by extrusion of volcanic material and its deposition in a surrounding rim.
Craton	A portion of a continent that has attained stability and has not been subjected to major deformation for a prolonged time, typically since Precambrian or Early Paleozoic time.
Critical Depth	The depth in a lake at which sufficient light penetrates to enable photosynthesis in plants to equal their respiration.
Crusher	A machine for crushing rock, such as a gyrating crusher or a cone crusher.

Cumulative Effects	Effects cause by the interaction of project components or activities with other activities of the past, or effects that are occurring simultaneously or sequentially.
Debitage	Pieces of stone removed during the manufacture of stone tools.
Decibel (dB)	The basic unit for measuring the magnitude of sound pressure levels. The entire range of audible sound pressure (a range of more than 10 million to one for individuals with normal hearing) can be compressed into a practical scale of sound pressure levels from 0 to 140 dB. One decibel is the minimum difference in loudness that is usually perceptible.
Decline	An inclined underground opening connecting levels to allow machine access from level or from surface; also called a ramp.
Decommissioning	The process by which a mining operation is shut down and closed.
Demographics	The analysis of factors such as births, marriages, diseases and other vital statistics, which allow the assessment of a population in a given area.
Dendogram	Tree-like diagram indicating resemblance among members of a group of organisms or sites.
Deposit	Any collection of earth material accumulated through the activities of water, wind, ice or other agents.
Detritivore	An organism that eats detritus.
Detritus	Unconsolidated material composed of both inorganic and dead and decaying organic material.
Development	Work carried out to provide access to the mineral ore of value and to construct the facilities required for production operations.
Diabase	A common basic igneous rock usually occurring in dykes or sills.
Diagenesis	The sum of all chemical, physical and biological influences on sediment composition.

Diamond	The hardest known mineral, composed of pure carbon.
Diatom	Common name for Bacillariophyta; a type of phytoplankton.
Diatreme	A breccia-filled volcanic pipe that was formed by a gaseous explosion.
Dike	An earth-fill structure similar to a dam designed to impound water or saturated material such as tailings.
Dip	The angle at which a structure or rock bed is inclined from the horizontal as measured at right angles to the strike.
Diurnal	Daily.
Dorsal	Pertaining to the back.
Dorsal Fin	A fin on the back of a fish, usually central in position and supported by rays or spines.
Drift	A horizontal, or nearly horizontal, underground opening that follows along the length of a rock formation, as opposed to a crosscut, which crosses the rock formation.
Dry	A building, with showers and storage for work clothes, where miners change and wash.
Dump	A pile or heap of broken rock on surface.
Dyke	A long and relatively thin body of igneous rock that, while in the molten state, intruded a fissure in older rocks.
Ecology	The study of the interactions between organisms and their environment.
Ecosystem	A community of interacting organisms considered together with the chemical and physical factors that make up their environment.
Ecosystem Approach	A holistic, interdisciplinary method of studying a system that seeks to integrate biophysical and socioeconomic factors with input from a variety of sources.
Ecosystem Integrity	A measure of the overall health of an ecosystem.

Emission Rate	The rate at which a source releases air contaminants.
Englacial	Contained, embedded or carried within the body of a glacier or ice sheet.
Environment	The interrelated physical, chemical, biological, social, spiritual and cultural components that affect the growth and development of living organisms.
Environmental Assessment and Review Process (EARP)	The process used by the federal government to consider the environmental implications of all proposals for which the federal government has decision-making authority.
Environmental Impact Assessment (EIA)	A process designed to identify, predict, interpret and communicate information about the impact of an activity on human health and well-being, including the well-being of ecosystems on which human survival depends.
Environmental Impact Statement (EIS)	A detailed document that describes the potential environmental consequences of a proposed activity.
Environmental Quality Objectives	Goals or purposes toward which an environmental control effort is directed, including goals or purposes stated in quantitative or qualitative terms.
Ephemeral Stream	A stream that lasts for only a short time.
Epiclastic	Pertaining to mechanically deposited sediments consisting of weathered products of older rocks.
Epilithon	Periphyton attached to submerged rocks.
Esker	Sinuuous ridge of weakly stratified gravel and sand deposited by a stream flowing in (or beneath) the ice of a retreating glacier, and left behind when the ice melted.
Euphotic Zone	A zone near the water surface into which sufficient light penetrates for photosynthesis to take place.
Eutrophic	Nutrient rich waters with high primary productivity.
Face	The end of an underground drift or crosscut, or of an open pit bench, in which mining is progressing.
Facies	The set of characteristics of a rock that reflects the

conditions of its origin and that distinguishes it from adjacent or associated units.

- Fault** A break in the Earth's crust caused by tectonic forces that have moved the rock on one side with respect to the other; faults may extend for many kilometres or be only a few centimetres in length; similarly, the movement or displacement along the fault may vary widely.
- Fecundity** Potential ability of an organism to produce eggs or young.
- Fin Ray** An articulated or jointed rod that supports the membrane of a fin.
- Flake** A piece of rock intentionally removed from another rock that may be further modified to become a tool, or left unmodified as debitage or detritus.
- Flowsheet** An illustration showing the sequence of operations, step by step, by which ore is treated in a mineral separation process.
- Fork Length** Distance from the proximal tip of the head to the tip of the middle ray of the caudal fin.
- Freshet** Increased volume of flow over a relatively short period of time (e.g., snowmelt).
- Frost Boil** An unsorted circle of fresh soil material formed by frost action and commonly found in fine-grained sediments underlain by permafrost.
- Fry** Young fish, newly hatched, after the yolk has been used up and active feeding has commenced.
- Fumigation** A meteorological condition occurring when a strong radiation inversion begins to break up as the Earth's surface begins to warm up during early to mid-morning. Fumigation conditions can cause high ground level pollutant concentrations for short time intervals; for instance, the plume from a stack may be carried to ground level within a few hundred metres of the stack by convective currents.

Gaussian Dispersion	The dispersion of a pollutant after it leaves the top of the stack; often follows a pattern similar to the so called “bell-shaped curve.”
Geology	The science concerned with the study of the rocks that compose the Earth.
Geomorphology	The study of the classification, description, nature, origin and development of landforms and their relationships to underlying structures, and the history of geologic changes as recorded by these surface features.
Glaciofluvial Deposits	Unconsolidated rock material deposited by meltwater streams flowing from glaciers.
Granite	A coarse-grained (intrusive) igneous rock consisting of quartz, feldspar and mica.
Granitoid	A granitic rock.
Gyratory Crusher	A machine that crushes ore between an eccentrically mounted crushing cone and a fixed crushing throat.
Heavy Medium Separation (HMS)	A unit process in which crushed ore is washed in rotary drum scrubbers to break up agglomerated ore particles and remove soft fines and clay minerals.
Herbivore	An animal that feeds on plants.
Holistic	A total interrelated system perspective.
Host Rock	The rock surrounding an ore deposit.
Hydrology	The study of the properties of water and its movement in relation to land.
Hypabyssal	Kimberlite magma that has remained at the base of the pipe and crystallized <i>in situ</i> .
Hyporheos	Organisms that live in the interstitial spaces within the sediments of lakes and streams.

Ice Wedge Polygon	A large polygon characterized by borders of intersecting ice wedges, found only in poorly drained areas of permafrost regions and formed by contraction of frozen ground. The fissured borders may be either ridges or shallow troughs underlain by ice wedges.
Igneous	A rock formed by the solidification of magma.
Index Gill Netting	Standard sampling design (used in the 1994 project area) where small-mesh gillnets are set perpendicular to shore beginning at depths of 2 m to 3 m.
Indigenous Knowledge	Working definition from the Inuit Circumpolar Conference (1993): “... <i>comprised of information and concepts about the environment and ecology that are known, but usually not formally recorded by individuals who belong to a particular culture group that has occupied an identifiable territory over a long period of time. It includes facts, concepts and theories about the characteristics which describe the objects, events, behaviours and interconnections that comprise both the animate and inanimate environments of indigenous peoples.</i> ”
Insolation	The rate of radiation from the sun received per unit of the Earth’s surface. Insolation is a strong determining factor for atmospheric stability.
Invertebrates	Collective term for all animals without a backbone or spinal column.
Isolated Find	An archaeological site with a single artifact.
Isostatic Adjustment	Adjustment of the lithosphere of the earth to maintain equilibrium among units of varying mass and density; excess mass above (e.g., a glacier) is balanced by a deficit of dense mass below, and vice versa.
Kame	A mound, knob or short irregular ridge composed of stratified sand and gravel. The deposit can be formed by a subglacial stream as a fan or delta at the margin of a melting glacier, by a superglacial stream through a hole on the surface of the glacier, or as a ponded deposit on the surface or at the margin of sedentary ice.
Kettle	A depression in a glacial deposit formed by the melting of a detached block of ice buried in the deposit.

Kimberlite	An ultrabasic igneous rock that consists mainly of the mineral olivine and is found in volcanic pipes. The name is derived from Kimberley, South Africa, where the rock contains diamonds.
Labile	Rocks and minerals that are easily decomposed.
Lacustrine	Pertaining to, or produced by, a lake.
Lag	A residual accumulation of coarse rock fragments on a surface after the finer material has been blown away by winds.
Lake Overturn	Vertical mixing of layers in a body of water brought about by seasonal changes in temperature.
Lamproite	The only other diamondiferous volcanic rock type known besides kimberlite.
Lapse Rate	The rate of temperature decrease with height in the atmosphere. Lapse rates have been used as an index for vertical stability. The usual lapse rate for the troposphere is -0.98°C per 100 m of elevation gain.
Larva	The immature stage, between egg and pupa, of an insect with complete metamorphosis.
Leaching	A natural process by which groundwaters dissolve minerals, thus leaving the rock with a smaller proportion of some of the minerals than it contained originally.
Leq	The maximum allowable noise exposure level for a specified length of exposure time.
Level	A system of horizontal underground workings connected to the shaft; the basis of operations for excavation of ore above or below.
Limnology	The study of fresh water, including biological, geological, physical and chemical aspects.
Lithic	Of or pertaining to stone.
Littoral	Region of a lake from the highest water level to the depth at which photosynthesis ceases.
Lodgement Till	A till carried at or deposited from the underside of a

	glacier; commonly containing stones oriented with their long axes generally parallel to the direction of ice movement.
Lotic	Flowing freshwater environments (e.g., streams and rivers).
Macrophyte	A macroscopic photosynthetic organism growing submerged, floating or emergent in the water.
Mesotrophic	Waters with moderate primary productivity.
Microclimate	The weather variations in a very local area.
Mineral	A naturally occurring, homogeneous substance having definite physical properties and chemical composition and, if formed under favourable conditions, a definite crystal form.
Mineral Claim	A portion of land held by either a prospector or a mining company under federal or provincial law.
Mitigation	An activity aimed at avoiding, controlling or reducing the severity of adverse physical, biological and/or socioeconomic impacts of a project activity.
Mixing Height	The effective depth of the atmosphere, measured from ground level, through which the dispersion of pollutants can take place.
Moraine	A mound or ridge of unstratified glacial sediments, chiefly till, deposited by direct action of glacier ice.
Ndè	A Dogrib term usually translated as “land”. As defined by the Dene Cultural Institute: <i>“Ndè is much closer to the scientific concept ‘ecosystem’, however, where ecosystem is based on the idea that living things exist in association with non-living elements, the Dogrib term Ndè is based on the idea that everything in the environment has life and spirit. Ndè includes both the spiritual and physical aspects of the land, people, animals and their habitats.”</i>
Oligotrophic	Nutrient deficient waters with low primary productivity.
Open Pit	A surface mine, open to daylight, such as a quarry. Also referred to as open-cut or open-cast mine.

Ore	A mineral, or group of minerals, that can be extracted from the ground at a profit under existing economic conditions.
Ore Body	A natural concentration of valuable material that can be extracted and sold at a profit.
Otolith	Inner ear bone found in bony fishes (flat and oval in structure).
Outcrop	An exposure of rock or mineral deposit that can be seen on surface i.e., not covered by overburden or water.
Oxidant	A compound capable of receiving electrons from the decomposition of matter.
Oxidation	A process of decomposition; electrons that hold matter together are transferred to another compound called an oxidant.
Pectoral Fins	The most anterior or uppermost of the paired fins of a fish.
Pelagic	Inhabiting the open water of a lake, in contrast to the lake bottom (benthic region).
Periphyton	Community of microbiota (algae, bacterial, fungi, rotifers, nematodes, protozoans and detritus) that are loosely attached to submerged substrata that may be inorganic, organic, living or dead.
Phytoplankton	Small floating plant life in aquatic ecosystems, sometimes microscopic.
Pipe	The vertical conduit along which gas and magma ascend to the surface, usually filled with breccia and may be mineralized; a more or less vertical, cylindrical ore body.
Piscivorous	Fish eating.
Planktivorous	Plankton eating.

Plant Site	A centralized area containing the process plant, permanent camp, equipment maintenance facilities and other infrastructure required to support the mining and diamond production operations.
Plunge Pool	The water occupying a deep hollow scoured in the bed of a stream at the foot of a waterfall; also, the hollow or basin itself.
Portal	The surface entrance to a tunnel or adit.
Post-decommissioning	The time after which an operation has closed and equipment and facilities have been removed from the site.
Primary Production	Production by photosynthetic organisms.
Primary Productivity	Rate at which energy is stored by the photosynthetic activity of plants.
Process Plant	A building in which crushed ore is washed, screened, concentrated and sorted for the recovery of diamonds.
Profundal	Region of a lake lying below the euphotic zone.
Proponent	The organization, company or institution planning to initiate a project.
Pupa	The stage between larva and adult in insects with complete metamorphosis.
Pyrite	The most widespread and abundant of all the sulphide minerals and occurs in all kinds of rocks; a common yellow mineral with a brilliant metallic lustre.
Pyroclastic	Pertaining to clastic rock material formed by volcanic explosion or aerial expulsion from a volcanic vent.
Quaternary Geology	Rocks from the Quaternary, a period of the Cenozoic era, which began two to three million years ago and extends to the present.
Radiation Inversion	A condition in which rapid cooling of the ground by radiation causes ambient temperatures to increase with height.

Raise	An underground opening driven upward from one level to another.
Reclamation	An activity aimed at rehabilitating a disturbed site to some level of ecological productivity.
Recruitment	In biology, an addition to the population by reproduction of new individuals.
Redox Conditions	A measure of electron activity of an environment (i.e., sediments); high redox conditions mean oxygen-rich environments, low redox conditions mean oxygen-poor environments.
Residual Effects	Effects that persist after mitigation measures have been applied.
Retouch	A type of modification used in the manufacture of stone tools.
Riffle	Shallow areas in a stream or river section characterized by increased habitat heterogeneity, sediment size, stream velocity, and sometimes oxygen content.
Rock	Any natural combination of minerals; part of the Earth's crust.
Rock Mass Rating (RMR)	A geomechanic classification of a rock slope or drill core that provides quantitative data for the purpose of mine design and ground reinforcement. RMR values range from 0 (very poor rock) to 100 (very good rock).
Rotary Drill	A machine that drills holes by rotating a rigid, tubular string of drill rods attached to a bit. Commonly used for drilling large diameter blastholes in open pit mines; recovers chips rather than rock core.
Run-of-Mine	Typical excavated ore or waste rock that has not been upgraded, sorted or otherwise processed.
Salmonid	Family of freshwater or anadromous fishes; dominant family in northern waters of North America (includes lake trout, round whitefish, arctic grayling).
Sample	A small portion of rock or a mineral deposit, taken so that the metal content can be determined by assaying.

Sampling	Selecting a fractional but representative part of a mineral deposit for analysis.
Scoping Sessions	Public meetings where all relevant issues and concerns related to a proposed project or activity are identified.
Scrubbing	A gravity concentration process that separates high density particles, including diamonds, from low density, non-diamond material in a conventional separating cyclone.
Secondary Production	Production by consumer organisms.
Setae	Bristles or “hair” of invertebrates.
SGP	Slave Geological Province
Shaft	A vertical or inclined excavation in rock for the purpose of providing access to an ore body. Usually equipped with a hoist at the top, which lowers and raises a conveyance for handling workers and materials.
Sill	An intrusive sheet of igneous rock of roughly uniform thickness, generally extending over considerable lateral extent, that has been forced between the bedding planes of existing rock.
Solifluction	The slow downslope movement of saturated earth materials resulting from alternate freezing and thawing of ground ice.
Sorted Circle	A dominantly circular form of patterned ground, developed singly or in groups, that has a sorted appearance commonly due to a border of stones surrounding finer material.
Sound Level Meter	The basic instrument used to measure sound pressure variations.
Standing Crop	Amount of living organic matter found in a given area or volume of water at a given time; expressed as number per unit area or unit volume.

Steady-state Noise	Noise that may be characterized as having a steady magnitude (usually measured in dBA) and a prolonged duration. Examples would be noise generated by fans, diesel power plant engines and any other heavy equipment at normal operating state.
Stockpile	A supply of material, for example, blasted rock or crushed ore, set aside for future use.
Stope	An excavation in an underground mine from which ore is being or has been extracted.
Striation	One of a series of fine parallel straight lines cut into a bedrock surface by rock fragments embedded at the base of a moving glacier, or cut on the rock fragments themselves.
Sublevel	A system of horizontal underground workings, normally within stoping areas only, required for ore production.
Supraglacial	Carried at the top of a glacier or ice sheet.
Surficial Geology	The study of material at or near the surface of the earth, usually unconsolidated soil or rubble.
Sustainable Development	Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
Tailings	Ground waste material and water (slurry) rejected from a mill or process plant after most of the valuable minerals have been extracted.
Tailings Pond	An engineered storage site used to confine tailings.
Talik	A layer or body of unfrozen ground below the active layer in a permafrost area.
Thermocline	Layer in a thermally stratified body of water in which temperature changes rapidly relative to the remainder of the body.
Thermokarst	The process by which characteristic karst-like landforms result from the thawing of ice-rich permafrost, forming cave-in bogs, caverns, pits and other small depressions.

Thickener	A large, round tank used in mineral processing operations to separate solids from liquids; clear fluid overflows from the tank and rock particles sink to the bottom.
Thorax	In insects, the group of three segments behind the head that bears the three pairs of legs and (when present) the wings.
Till	Unstratified rock material deposited directly by glaciers, consisting of a mixture of clay, silt, sand, gravel and boulders ranging widely in size and shape.
Traditional Environmental Knowledge (TEK)	As defined by the Dene Cultural Institute: “... <i>a body of knowledge and beliefs transmitted through oral tradition and first hand observation. It includes a system of classification, a set of empirical observations about the local environment and a system of self-management that governs resource use. Ecological aspects are closely tied to social and spiritual aspects of the knowledge system.</i> ”
Traditional Knowledge	As defined by the Dene Cultural Institute: “ <i>Knowledge and values which have been acquired through experience, observation from the land and from spiritual teachings, and handed down from generation to generation.</i> ”
Trim Line	A sharp boundary line defining the maximum upper level of the margins of a glacier that has receded from an area.
Trophic Levels	Functional classification of organisms in an ecosystem according to feeding relationships, from first level autotrophs through succeeding levels of herbivores and carnivores.
Turbidity	A condition of reduced transparency in water caused by suspended colloidal or particulate material.
Utilidor	Enclosed and heated corridor for utility piping, electrical conduits and personnel access.
Valued Ecosystem Components	Environmental attributes or components identified as a result of a social scoping exercise as having scientific, social, cultural, economic or aesthetic value.
Waste Rock	Barren rock or rock too low in grade to be mined or processed economically.

Xenolith	A foreign inclusion in an igneous rock.
YOY (young of the year)	Juveniles during the period from the last larval stage to adulthood, or one year of age, whichever comes sooner.
Zone	An area of distinct mineralization.
Zooplankton	Small floating or weakly swimming invertebrate animals in freshwater and marine ecosystems.

Abbreviations

Ampere	A	Kilometre	km
Annum	a	Kilometres per hour	km/h
Billion years	Ga	Kilopascal	kPa
Canadian dollar	\$ or CDN\$	Kilovolt	kV
Carat	ct	Kilovolt-ampere	kVA
Carats per stone	ct/stone	Kilowatt	kW
Centimetre	cm	Kilowatt hour	kWh
Cubic metre	m ³	Kilowatt hours per tonne	kWh/t
Cubic metres per hour	m ³ /h	Kilowatt hours per year	kWh/a
Cubic metres per minute	m ³ /min	Less than	<
Cubic metres per year	m ³ /a	Litre	L
Day	d	Litres per year	L/a
Days per week	d/wk	Litres per hour	L/h
Days per year	d/a	Litres per minute	L/min
Degree	°	Litres per second	L/s
Degrees Celsius	°C	Megahertz	MHz
Gram	g	Megajoules per litre	MJ/L
Grams per cubic centimetre	g/cm ³	Megapascal	MPa
Grams per kilowatt hour	g/kWh	Megavolt-ampere	MVA
Grams per litre	g/L	Megawatt	MW
Grams per tonne	g/t	Megawatt hour	MWh
Greater than	>	Metre	m
Hectare	ha	Metres per day	m/d
Hertz	Hz	Metres per minute	m/min
Horsepower	hp	Metres per second	m/s
Hour	h	Metric tonne	t
Hours per day	h/d	Micrometre (micron)	μ
Hours per year	h/a	Milligrams per litre	mg/L
Kilogram	kg	Millimetre	mm
Kilograms per cubic metre	kg/m ³	Million years	Ma
Kilograms per hour	kg/h	Minute	min
Kilograms per tonne	kg/t	Month	mo
Kilograms per year	kg/a	Parts per million	ppm
Kilojoule	kJ	Percent	%

Glossary and Abbreviations

Plus or minus	±	Revolutions per minute	rpm
Second	s	U.S. dollar	US\$
Square kilometre	km ²	Volt	V
Tonne	t	Water gauge	w.g.
Tonnes per cubic metre	t/m ³	Watt	W
Tonnes per day	t/d	Week	wk
Tonnes per hour	t/h	Year (annum)	a
Tonnes per year	t/a		