

GLOSSARY

Symbols	
%	percent
<	less than
>	greater than
°C	degrees Celsius
μ	micro – one millionth, 10 ⁻⁶
μg/L	micrograms per litre (1000 μg/L = 1 mg/L)
μg/m ³	micrograms per cubic metre
μS/cm	microsiemens per centimetre: a unit of electrical conductivity
ρ	fluid (water) density (1000 kg/m ³)
Ω	stream power per unit channel length (W/m)
A	
A	cross-section area of flow in a channel (m ²)
A horizon	surface horizon (topsoil layer) composed of mainly mineral matter with well-incorporated organic matter
ACEMP	African Centre for Energy and Mineral Policy
ACODE	Advocates Coalition on Development and Environment
Acric	property of ferralsols with very low cation exchange capacity in the subsoil/B horizon
Acric Ferralsol	description of soil classification: good physical properties, poor fertility, less susceptible to erosion than most other intensely weathered tropical soil; dominated by low-activity, iron-rich clay
ACT	artemisinin-based combination therapy
AGI	aboveground installation
AHAP	area of high archaeological potential
AIDS	acquired immune deficiency syndrome
anadromous	fish that are born in fresh water then migrate to the ocean as juveniles where they grow into adults before migrating back into fresh water to spawn
ANARDE	Advocates for Natural Resources and Development
AOI	area of influence
AP	aerial photograph
APHA	American Public Health Association
Aquaread	trademark multiparameter water quality probe

aquatic	freshwater habitats or species only, in the context of this report
aquifer	stratum or zone below the earth's surface capable of producing water for human use
AREA	drainage basin area (km ²) (a parameter used to calculate the mean annual flood)
Arenosol	description of soil classification: deep sandy soil, sometimes calcareous; low water and nutrient storage capacity
ARI	acute respiratory infection
ASM	artisanal and small-scale mining
A-weighting	'A' weighting is standard weighting of the audible frequencies designed to reflect the response of the human ear to noise. At low and high frequencies, the human ear is not very sensitive, but between 500 Hz and 6 kHz the ear is much more sensitive.
B	
B horizon	subsurface, or originally subsurface horizon, in which the original rock or parent material has been mostly or entirely altered by weathering and soil-forming processes
bajaj	three-wheeler motorcycle taxis
bankfull discharge, level, width	discharge, water level or width of a river whose flow is just contained within the banks
BAU	business as usual
BBL/D	barrels per day
BCC	Behaviour Change Communication
BCG	Bacillus Calmette-Guerin
BID	background information document
bioquality	aspect of a plant community's conservation value, derived from the concentration of restricted range species occurring in the community.
Black Star species	plant species of highest conservation concern as a result of their very small global area of occupancy
blasting	assumed use of charges less than 5 kg for the purpose of this project
BLB	Buganda Land Board
Blue Star species	plant species of modest conservation concern as a result of their somewhat restricted global range (24 degrees square on average)
BMU	beach management unit
BOD	biochemical oxygen demand
boda boda	motorcycle taxis
<i>bomas</i>	livestock enclosure

BS	British Standard
BTEX	benzene, toluene, ethylbenzene and xylene
BTVET	Business Technical Vocational Education and Training
C	
Calcisol	description of soil classification: calcareous, mostly alluvial, colluvial and aeolian deposits; occasionally salt affected
CAO	chief administrative officer
cascade	tumbling, white water, for example, waterfall. Substrate is usually bedrock or possibly boulders.
CBOs	community based organisations
CCO	Certificate of Customary Ownership
CDO	community development officer
CES	cultural ecosystem services, the adoption of ecosystem services to cultural heritage
CFR	central forest reserve
CFU	colony forming units (bacteria)
CFU/100 ml	colony forming units (unit of measurement of abundance of coliform bacteria) per 100 millilitres
CHA	critical habitat assessment
CHU	cultural heritage Uganda
CLA	Communal Land Association
CLTS	community-led total sanitation
CMS	Convention on the Conservation of Migratory Species of Wild Animals, aka Convention on Migratory Species
CNOOC	China National Offshore Oil Corporation
CO	carbon monoxide
CO _{2e}	carbon dioxide equivalent, a standard unit for measuring GHG emissions (carbon footprints). The impact of each different greenhouse gas is expressed in terms of the amount of carbon dioxide that would create the same amount of warming. A GHG emission consisting of different greenhouse gases can be expressed as a single number.
COD	chemical oxygen demand
COFTU	Central Organisation of Free Trade Unions
COMESA	Common Market for Eastern and Southern Africa
CSCO	Civil Society Coalition for Oil and Gas
CVD	cardiovascular disease

D	
DAMBO	(dimensionless) proportion of the drainage basin covered by wetland (a parameter used to calculate the mean annual flood)
dB	decibel
dB(A)	A-weighted decibel
dB(lin)	zero or flat weighted decibel
DDP	district development plan
DEFRA	Department of Environment, Food and Rural Affairs
DGSM	Directorate of Geological Survey and Mines
DHMT	district health management team
DHO	district health officer
diagnostic horizon	soil horizon, some or all of whose properties are used for classification purposes in the FAO Soil Legend
diffusion tube	plastic monitoring tubes for inorganic compounds – they work by molecular diffusion, with compounds moving from an area of high concentration (air) to an area of low concentration (tube), where the compounds collect on the absorbent at the end of the tube.
DIN	German Institute for Standardisation
DLB	District Land Board
DLO	District Land Office
DMU	discrete management unit – defined in IFC PS6 as an area with a definable boundary within which the biological communities or management matters have more in common with each other than they do with those in adjacent areas
DO	dissolved oxygen (mg/L or % saturation)
DOSH	Department of Occupational Safety and Health
DOTS	directly observed treatment short-course
DRC	Democratic Republic of Congo
DSIP	development strategy and investment plan
DWD	Directorate of Water Development
DWO	District Water Officer
DWRM	Directorate of Water Resources Management under the Ministry of Water and Environment, Uganda
Dystric Regosol	description of soil classification: weakly developed, fine grained, extensive on eroded land
E	
<i>E. coli</i>	<i>Escherichia coli</i> (bacteria)
EAC	East African Community

EACOP	East African Crude Oil Pipeline
EC	electrical conductivity ($\mu\text{S}/\text{cm}$)
ECO	Ecological Christian Organisation
EHA	environmental health area
EIA	environmental impact assessment
ENSO	El Niño–Southern Oscillation
ERU	existing road upgrade
ESIA	environmental and social impact assessment
F	
FAO	Food and Agriculture Organization of the United Nations
fault	fracture or fracture zone along which there has been displacement of the sides relative to another parallel to the fracture
FDI	foreign direct investment
Ferralsol	description of soil classification: strongly weathered soils of the humid tropics with high iron and aluminium oxide contents.
FFI	Fauna & Flora International
FGD	focus group discussion
FR	forest reserve
fractures	breaks in rocks due to intense folding or faulting
G	
g	acceleration due to gravity (9.81 m/s^2)
gauged watercourse	watercourse on which a river gauging station is located. A river gauging station is a location where flow and water quality are monitored by hydrologists and environmental scientists
GBV	Gender-based violence
GDP	gross domestic product
GH	general hospital
GHG	greenhouse gases
GHI	genetic heat index – a measure of the conservation importance of vegetation. High index represents higher importance. A continuous metric used to measure bioquality.
GIS	geographic information system
Gleyic Arenosol	description of soil classification: deep sandy soil, sometimes calcareous, low water and nutrient storage capacity; wet
Gleysol	description of soil classification: soils saturated with groundwater for long enough periods to develop features of reduction and re-oxidation characterised by grey and rust-coloured mottles.

glide	flowing water with an unbroken or undisturbed surface
Gold Star species	plant species of high conservation concern as a result of their small global area of occupancy
GoU	Government of Uganda
GPS	global positioning system
GR	game reserve
Green Star species	plant species of no conservation concern with respect to their area of occupancy. Could be of concern due to other characteristics, such as local use, or ecological dominance.
H	
h	hour
H ₂ S	hydrogen sulphide
ha	hectare
Haplic Ferralsols	description of soil classification: ferralsols (see above) with the normal horizon (soil layer) sequence
HAT	human African trypanosomiasis
HC	health centre
HDI	Human Development Index
HGV	heavy goods vehicle
HH	household
HHI	household interview
HIA	health impact assessment
HIPC	heavily indebted poor countries
Histosol	description of soil classification: organic peaty, swamp forest soil, fragile, nutrient rich
HIV	human immunodeficiency virus
HMIS	health management and information system
HODIFA	Hoima District Farmers Association
horizon	See "soil horizon" below
HPP	hydropower plant
hr	hour
HRT	human rights team
HSB	health-seeking behaviour
HT	health team
I	
IAP	International Accountability Project
ICH	intangible cultural heritage

IFC	International Finance Corporation
ILO	International Labour Organisation
IRS	indoor residual spraying
ISO	International Organization for Standardization
ITN	insecticide treated net
IUCN	International Union for Conservation of Nature
J	
JGI	the Jane Goodall Institute
K	
KBA	key biodiversity area, a site that contributes to the global persistence of biodiversity; identified using 11 criteria across five categories
KET	key employment terms
kg	kilogram
kgm ⁻²	kilograms per square metre
KII	key informant interview
km	kilometre
km ²	square kilometre
KP	kilometre point
kraal	livestock enclosure
L	
L	litre
L _{10(T)}	noise level exceeded for 10% of the time of the measurement duration; often taken to represent traffic related noise
L _{90(T)}	noise level exceeded for 90% of the time of the measurement duration; often taken to represent the ambient or background noise level. For time (T) see L _{eq,(T)}
LDL	laboratory detection limits
Leptosol	description of soil classification: coarse and thin, probably gravely, maybe thin layer of peat; common on slopes; can be fertile but prone to erosion
L _{eq(T)}	The sound level in decibels equivalent to the total sound energy measured over a stated period of time. T is over a general period of time where a number illustrates a specific averaging or measurement period (typically L _{eq,1hr}).
LGDPs	local government development plans
LIDAR	light detection and ranging: an airborne or satellite-borne detection system that works on the principle of radar, but uses light from a laser and is used to map topography

linear weighting (zero weighting or flat weighting)	'l' or 'z' or '0' sound level meter frequency weighting, flat over a frequency range that must be stated. No weighting is applied.
Lixic Ferralsol	description of soil classification: good physical properties, poor fertility, less susceptible to erosion than most other intensely weathered tropical soil; dominated by low-activity, iron-rich clay
L_{max}	root mean squared maximum level of a noise source or given environment.
L_P	sound pressure level
LRA	Lord's Resistance Army
Luvisol	description of soil classification: higher clay content in subsoil than topsoil; podzolic; common on flat or gently sloping land; fertile, high silt content and prone to erosion on slopes
L_w	sound power level
M	
m	metre
m/s	metres per second
m^3	cubic metres
m^3/h	cubic metres per hour
m^3/s	cubic metre per second
MAAIF	Ministry of Agriculture, Animal Industry and Fisheries
macrophyte	aquatic plant that is easily visible with the naked eye
MAF	mean annual flood. The mean annual flood has a theoretical statistical return period of 2.3 years
MAR	mean annual rainfall (mm). (a parameter used to calculate the mean annual flood)
marginal vegetation	predominantly or fully aquatic vegetation growing in the marginal areas of a river (i.e., in the water along the edge of the river under typical flow conditions)
masl	metres above sea level
mbgl	metre below ground level
MCPY	main camp and pipe yard
MDA	ministries, departments and agencies
MDG	Millennium Development Goals
MDRI	Multilateral Debt Relief Initiative
MDR-TB	multidrug-resistant TB
MEMD	Ministry of Energy and Minerals Development
meq/100 g	milliequivalents per 100 grams
mg	milligram

mg/kg	milligrams per kilogram
mg/L	milligrams per litre
MGLSD	Ministry of Gender, Labour and Social Development
MIC	maximum instantaneous charge
micro-blasting	assumed use of charges less than 1 kg for the purpose of this project
microliths	small shaped flint, typically part of a composite tool such as a spear.
midstream bar	raised area of the substrate forming a mound or hump running along the middle of the channel. The upper part may or may not be exposed above the water surface.
migratory [fish]	fish that undertake longitudinal movements within rivers or between lakes and rivers or the sea and rivers usually for spawning (reproduction) purposes. See also anadromous and potamodromous
min	minute
mL	millilitre
MLHUD	Ministry of Land, Housing and Urban Development
mm	millimetre
mm/a	millimetres per annum
MMR	maternal mortality rate
mms ⁻¹	millimetre per second
MoU	Memorandum of Understanding
mS/m	millisiemens per metre
MtCO ₂ e	million metric tonnes of carbon dioxide equivalent
MTWA	Ministry of Tourism, Wildlife and Antiquities
MWE	Ministry of Water and Environment, Uganda
N	
n	roughness factor in the Manning uniform flow equation
NA	data not available
NAADS	National Agricultural Advisory Services
NAP	national action plan
NAPE	National Association of Professional Environmentalists
NARL	National Agricultural Research Laboratories
NARO	National Agricultural Research Organisation
NCD	noncommunicable disease
ND	not detected
NDP	National Development Plan

NDPII	Second National Development Plan
NEMA	National Environment Management Authority (Uganda)
NER	net enrolment ratio
NFA	National Forestry Authority
NGO	non-governmental organisation
Nitisol	description of soil classification: deep, well-drained, red tropical soil with at least 30% clay and moderate to strong angular blocky structure; rich in iron; very productive land
NMCP	National Malaria Control Programme
NMT	nonmotorised transport
NO ₂	nitrogen dioxide
NOTU	National Organisation of Trade Unions
NO _x	nitrogen oxides: a generic term for the nitrogen oxides that are most relevant for air pollution, namely nitric oxide (NO) and nitrogen dioxide (NO ₂). Calculated as the sum of the volumetric concentrations of these substances and, when in mass terms, reported as NO ₂ .
NRH	national referral hospital
NSSF	National Social Security Fund
NTD	neglected tropical disease
NTLP	National TB and Leprosy Programme
NTU	nephelometric turbidity unit
O	
O ₃	ozone
octas	unit of measurement used to describe the amount of <i>cloud cover</i> at any given location. Ranging from 0 to 8
ODAI	other degree-awarding institution
ODF	open defecation free
online pond	pond directly connected to a river
OPM	Office of Prime Minister
OSH	occupational safety and health
OTI	other tertiary institutions
overpressure	overpressure (or blast overpressure or air overpressure) is the pressure caused by a shock wave over and above normal atmospheric pressure.
P	
P	wetted perimeter of a channel (m)
PACs	project-affected communities

PAGI	permanent aboveground installation
PAH	polycyclic aromatic hydrocarbon
PAR	permanent access road
PAU	Petroleum Authority of Uganda
PES	project environmental standard
Petric Plinthosol (Acric)	description of soil classification: iron rich, humus poor, kaolinitic clay, strongly cemented
PFM	public financial management
PFP	private-for-profit
pH	numeric scale used to specify the acidity or basicity of an aqueous solution: pH1 is extremely acidic, pH14 is extremely alkaline and pH7 is neutral
Planosol	description of soil classification: periodically waterlogged, coarse topsoil over dense slowly permeable clay subsoil; medium fertility
PM	particulate matter
PM ₁₀	particulate matter less than 10 µm in diameter
PM _{2.5}	particulate matter less than 2.5 µm in diameter
PNFP	private-not-for-profit
polity	a form or process of civil government or constitution
pool	still water area, i.e., no discernible flow, usually with a water depth greater than the main channel
potamodromous	fish that undertake migrations (usually for spawning) entirely in freshwater
PPE	personal protective equipment
PPG	public and publically guaranteed
ppm	parts per million
PRS	pressure reduction station
PS	pumping station
PS6	IFC Performance Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources
PSA	Production Sharing Agreement
PSPS	public service pension schemes
PVC	polyvinyl chloride
PY	pipe yard
Q	
Q	discharge (m ³ /s)
Q _T	peak flood flow with an estimated return period of T years

R	
R	hydraulic radius (m), calculated as the ratio A/P
RAP	resettlement action plan
rapid	fast-flowing water with standing waves and white water. Loud sound
RBS	rapid botanical survey
RCP	representative concentration pathway
RDC	resident district commissioner
REA	Rural Electrification Agency
RESP-2	rural electrification strategy and plan
return period	average number of years in the long term between hydrometeorological events of a similar magnitude
Rhodic Ferralsols	description of soil classification: strongly weathered tropical soils with a red to dusky red B horizon/subsoil
Rhodic Nitisols	description of soil classification: tropical soils with an accumulation of clay in a red to dusky red B horizon/subsoil with prominent, shiny clay surfaces.
riffle	fast-flowing water with a broken surface and small standing waves but no white water. Some sound
riparian vegetation	predominantly terrestrial vegetation growing on the banks of a river but not in the river (except perhaps during times of flood)
RoW	right-of-way
RRH	regional referral hospitals
run	flowing water with a broken surface but no wavelets, white water or sound
rural roads	roads that traverse rural areas, generally unsealed and often single tracks
S	
s	second
S1085	slope of the catchment between the 10 and 85 percentiles of the main stream length (m/km) (a parameter used to calculate the mean annual flood)
S _b	channel bed slope (m/m)
SC	subcounty
S _e	energy slope in a channel (m/m). S _e approximated by the channel bed slope (S _b)
sealed road	road in Uganda that may be constructed of tarmac, bitumen or concrete
SEDAF	Sembabule Farmers Association

SFREQ	stream frequency calculated as the number of stream junctions on a 1:50,000 scale map divided by AREA (a parameter used to calculate the mean annual flood)
SGI	small group interviews
SGS	African Assay Laboratories Ltd, in Mwanza, Tanzania
SHIS	Social Health Insurance Scheme
side bar	raised area of the substrate forming a mound or hump running along the edge of the channel which may or may not be connected to the bank. The upper part may or may not be exposed above the water surface.
SIP	sector investment plans
Skeletal Leptosols	description of soil classification: soils that are <50 cm deep or consist of very stony, unconsolidated material and imperfectly weathered rock or rock fragments (>40% of the soil volume is coarse rock fragments)
SLM	sound level meter
SO ₂	sulphur dioxide
soil horizon	layer of soil, usually approximately parallel to the soil surface, with distinct characteristics produced by soil-forming processes
SOP	standard operating procedure
sp and spp.	abbreviation of species, singular and plural
SSA	Sub-Saharan Africa
ST	social team
Star rating	conservation rating for a species derived from the global range of the plant species, in terms of the number of degree squares in which a species is recorded as being present in (worldwide).
STI	sexually transmitted infections
SU	standard unit
surface density	calculated as mass per unit area
T	
t/ha/a	tonnes per hectare per annum
TAGI	temporary aboveground installation
TAR	temporary access road
TB	tuberculosis
TC	Town Council
TCH	tangible cultural heritage
tCO ₂ e	tonnes of carbon dioxide equivalent
TDS	total dissolved solids (mg/L)
TEPU	Total E&P Uganda

TIs	tertiary institutions
TM	traditional medicine
TPH	total petroleum hydrocarbons (mg/L)
trunk roads	national or international route linking two or more regional headquarters
TSS	total suspended solids (mg/L)
turbidity	measure of relative clarity of a liquid. It is an optical characteristic of water and an expression of the amount of light that is scattered by material in the water when a light is shined through the water sample
tuyere	mechanism for controlling air flowing into an ironworking furnace
U	
UAE	United Arab Emirates
UBC	Uganda Broadcasting Corporation
UBOS	Uganda Bureau of Statistics
UCA	Uganda Census of Agriculture
UDHS	Ugandan Demographic Health Survey
UEDCL	Uganda Electricity Distribution Company Limited
UEGCL	Uganda Electricity Generation Company Limited
UETCL	Uganda Electricity Transmission Company Limited
UGX	Ugandan shilling
UK	United Kingdom
UKAS	United Kingdom Accreditation Service
UMEMD	Uganda Ministry of Energy and Mineral Development
UMWE	Uganda Ministry of Water and Environment
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNOC	Ugandan National Oil Company
UNRA	Uganda National Roads Authority
unsealed road	road in Uganda constructed from earth or gravel
urban roads	roads that pass through cities, small towns and built up areas
URC	Uganda Railways Corporation
USD	United States Dollar
USDA	United States Department of Agriculture
UWA	Uganda Wildlife Authority
UWEP	Uganda Women Entrepreneurship Programme

UXO	unexploded ordnance
V	
VAT	value added tax
VEC	valued environmental and social component
VHF	viral haemorrhagic fever
VHT	village health team
VOC	volatile organic compound or compounds
W	
W	watt
W/m ²	watt per square metre
WCS	Wildlife Conservation Society, Uganda
WGS84	World Geodetic System established in 1984. It is currently the reference system being used by global positioning systems
WGS84 TM35E_S	World Geodetic System 1984 Transverse Mercator zone 35 East-South (the EACOP project map projection)
WHO	World Health Organization
WSC NF	Water & Sewerage Corporation, nonfunctioning water supply schemes
Y	
YF	yellow fever
YLP	Youth Livelihood Programme