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UNITS AND ABBREVIATIONS

Units of Measure :

cm	centimeter
d	day
°C	degree centigrade
g	gram
h	hour
kg	kilogram
L	liter
Mt	metric ton
µg	microgram
meq	milliequivalent
mg	milligram
mL	milliliter
mm	millimeter
mS	millisiemen
M	molar
ppb	parts per billion
ppm	parts per million
%	Percentage
v	volume
w	weight

Abbreviations

A	Accumulation index
HOAc	Acetic acid
AMD	Acid Mine Drainage
APHA	American Public Health Association
ASTM	American Society for Testing and Materials
NH ₄ NO ₃	Ammonium nitrate
AA	Atomic Absorption
AAS	Atomic Absorption Spectrometer
AES	Atomic Emission Spectroscopy
BaCl ₂	Barium chloride
H ₃ BO ₃	Boric acid
BA	Bottom Ash

Cd	Cadmium
Ca ²⁺	Calcium
CaCl ₂	Calcium chloride
CEA	Central Electricity Authority
Cl ⁻	Chloride
Cr	Chromium
CCB	Coal Combustion By-products
CCP	Coal Combustion Product
CUB	Coal Utilization By-products
Cu	Copper
DTPA	Diethylene triamine penta acetic acid
DS	Disposal Site
DSF	Disposal Site Field
DW	Down wind
C _{daf}	dry ash free carbon concentration
EC	Electrical conductivity
ESP	Electrostatic Precipitator
EF	Enrichment Factor
EPA	Environmental Protection Agency
EDTA	Ethylene diamine tetra acetic acid
EU	European Union's
FAS	Ferrous ammonium sulphate
FFGD	FGD Flue Gas Desulfurization
FBC	Fluidized Bed Combustion
F ⁻	Fluoride
FA	Fly Ash
FFCW	Fossil Fuel Combustion Wastes
I-geo	Geo-accumulation index
MW	Gram molecular weight
MW	Gram molecular weight
GW	Ground Water
GNDTPP	Guru Nanak Dev Thermal Power Plant
HMs	Heavy Metals
HCl	Hydrochloric acid
HCl	Hydrochloric acid
HF	Hydrofluoric acid

NH ₂ OH. HCl	Hydroxyl ammonium hydrochloride
ICP	Inductively Coupled Plasma
ISO	International Standards Organization
IUPAC	International Union of Pure and Applied Chemistry
L/S	liquid to solid ratio
Mg ²⁺	Magnesium
MgCl ₂	Magnesium Chloride
MCL	Maximum contaminant level
M	Molar
MSW	Municipal Solid Waste
NETL	National Energy Technology Laboratory
Ni	Nickel
NO ₃ ⁻	Nitrate
HNO ₃	Nitric acid
NO _x	Nitrogen oxide
N	Normality
PM	Particulate matter
PSA	Particle Size Analysis
HClO ₄	Perchloric acid
PO ₄ ³⁻	Phosphate
PTFE	Poly tetra fluoro ethylene
PAH	Polycyclic Aromatic Hydrocarbons
PE	polyethylene
PTF	Polytetrafluorene
KCL	Potassium Chloride
PC	Pulverized Coal combustion
Rpm	Revolution per minute
SEM-EDX	Scanning Electron Microscopy-Energy Dispersive X-ray micro analysis
SE	Sequential Extraction
SEPs	Sequential Extraction Procedures
NaOAc	Sodium acetate
NaOH	Sodium hydroxide
NaNO ₃	Sodium nitrate
SM&T	Standards, Measurements and Testing Program
SS	Sub Surface
SO _x	Sulfur oxide

S	Surface
TA	Total Alkalinity
TDS	Total Dissolved Solid
TH	Total Hardness
TOC	Total organic carbon
TCLP	Toxicity Characteristic Leaching Procedure
USDA	United States Department of Agriculture
USA	United states of America
UP	Up wind
WHO	World Health Organization
XRD	X-ray diffraction analysis
Zn	Zinc
