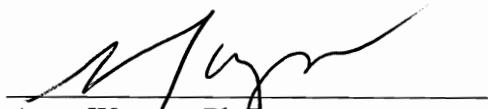


Signature Page

To the best of my knowledge, after thorough investigation, I certify that the information contained in or accompanying this submission is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Anne Wagner, Ph.D.
Project Coordinator

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List of Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
AB DPTA	ammonium bicarbonate diethylaminetriaminenepentaacetic acid
ABA	Acid Base Accounting
ac-ft	acre-feet
AFC	Alternative Final Cover
AGP	acid generating potential
ANP	acid neutralization potential
AOC	Administrative Order on Consent
ARAR	Applicable or Relevant and Appropriate Requirement
ARD	acid rock drainage
BADCT	Best Available Demonstrated Control Technology
BAF	Bioaccumulation Factors
BERA	Baseline Ecological Risk Assessment
BHHRA	Baseline Human Health Risk Assessment
BLM	Bureau of Land Management
BMI	benthic macroinvertebrate
BMP	Best Management Practices
BOD	biological oxygen demand
CAA	Clean Air Act
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CMI	Chevron Mining Inc.
CNS	central nervous system
CO	carbon monoxide
CO ₂	carbon dioxide
COC	chemical of concern
COPC	chemical of potential concern
CWA	Clean Water Act

List of Acronyms and Abbreviations

Di-Cal	dicalcium silicate
DIR	food ingestion rate of receptor
DP	discharge permit
DTSC	State of California Department of Toxic Substances Control
EA	exposure area
EEA	ecological exposure area
EMNED	Energy Minerals and Natural Resource Department
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
ET	evapotranspiration
Fe ²⁺	ferrous iron
Fe ³⁺	ferric iron
FML	flexible membrane liner
FOS	Factor of Safety
FR	Federal Register
FS	Feasibility Study
GCL	geocomposite clay liner
GI	gastrointestinal tract
gpm	gallon per minute
GWW	groundwater withdrawal well
H	horizontal
HDPE	high-density polyethylene
HDS	high-density sludge
HH	human health
HHEA	human health exposure area
HI	hazard index
HQ	hazard quotient
IC ₅₀	Inhibition (of growth) concentration at 50 percent
ICs	Institutional Controls
IR	incident rate

List of Acronyms and Abbreviations

KEECO	Klean Earth Environmental Company
LOAEL	lowest observed adverse effect level
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MEND	Mine Environment Neutral Drainage
mg/kg	milligram per kilogram
mg/kg-d	milligrams per kilogram per day
mg/L	milligram per liter
MMD	Mining and Minerals Division (New Mexico)
MSC	Molybdenum screening criteria
MSHA	Mine Safety and Health Administration
MW	monitoring well
NAG	non-acid generating
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
ND	not detected
NHPA	National Historic Preservation Act
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMSU	New Mexico State University
NNP	Net Neutralizing Potential
NOAEL	no observed adverse effect level
NOEC	no observed effects concentration
NO _x	nitrogen oxides
NP/AP	Neutralizing Potential/Acid Potential
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resources Conservation Service
NRD	Natural Resource Damage
NSDWR	National Secondary Drinking Water Regulation
NTU	nephelometric turbidity unit
O&M	operation and maintenance

List of Acronyms and Abbreviations

OSM	Office of Surface Mining
PAG	potentially acid generating
PAH	polynuclear aromatic hydrocarbons
PCB	polychlorinated biphenyl
pH	A measure of the acidity or alkalinity of water
Pi	proportion of dietary item in receptor's diet
PLS/A	Pure live seed per acre
PM ₁₀	particulate matter 10 microns in size or smaller
PM _{2.5}	particulate matter 2.5 microns in size or smaller
PMLU	post-mining land use
PPE	personal protective equipment
ppm	parts per million
RBSL	risk-based screening level
PRG	preliminary remediation goal
PRG _{agency}	Agency Preliminary Remediation Goal
PRG _{bio}	Bio Preliminary Remediation Goal
PRG _{original}	Original Preliminary Remediation Goal
PRG _{revised}	Revised Preliminary Remediation Goal
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RAO	remedial action objective
RD/RA	remedial design/remedial action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RUSLE	Revised Universal Soil Loss Equation
SAPS	Successive Alkalinity Producing System
SDWA	Safe Drinking Water Act
SFD	proportion soil in diet of receptor
SMCL	secondary maximum contaminant level

List of Acronyms and Abbreviations

SMCRA	Surface Mining Control and Reclamation Act
SO ₂	sulfur dioxide
SRB	sulfate-reducing bioreactor
SW/SED	surface water/sediment
SWPPP	Storm Water Pollution Prevention Plan
SWTRVC	surface water toxic reference value C
TBC	to be considered
TCLP	Toxicity Characteristic Leaching Procedure
TDS	total dissolved solids
TMDL	total maximum daily load
TPZ	temporary piezometer
TRV	toxicity reference value
TSCA	Toxic Substances Control Act
TSD	treatment, storage, and disposal
UAO	Unilateral Administrative Order
UIC	Underground injection control
UPL	Upper Prediction Limit
USC	U.S. Code
USDA	U.S. Department of Agriculture
USGS	U. S. Geological Survey
UST	underground storage tank
UTL	Upper Threshold Limits
V	vertical
WQCC	New Mexico Water Quality Control Commission
WRD	waste rock dump