



Johnny Prettyman, P.E.
Civil Engineer

Education

BS, Civil Engineering, Utah State University, 2013
Minor, Portuguese, Utah State University, 2014
MS, Hydraulics, Utah State University, 2014

Registrations/Certifications

Professional Engineer, Utah (#10640294-2202, 2017)

Experience Summary

Mr. Prettyman is a Civil Engineer with experience in Civil Design and Hydraulics. His expertise lies in hydraulic design, pipeline design, and water resources. He has experience using AutoCAD Civil 3D, HEC-RAS, and EPANET.

Project Experience

Mining/ Site Plans

FIRE CREEK WASTE ROCK STORAGE FACILITY, FIRE CREEK MINE | LANDER COUNTY, NEVADA

Assisted in design and drawings for Haul Road Design Changes and drawings issued for construction for the Waste Rock Storage Facility. Prepared reports for the Engineering Design Change (EDC) of the temporary fill on the Waste Rock Repository. Prepared As-Built drawings. (Tierra Group, 2015 to Present)

TONKIN DAMS, BARRICK GOLD U.S. | EUREKA, NEVADA

Assisted in the drafting of construction documents and As-Built for the Tonkin Reservoir Dam buttress design and Lower Tonkin Dam decommission. Calculated earthwork volumes and liner system quantities for cost estimate. (Tierra Group, 2016)

JD RANCH DAM, BARRICK GOLD U.S. | EUREKA, NEVADA

Drafted construction documents for the JD Ranch Dam decommission. (Tierra Group, 2016)

NORTH BLOCK TAILINGS DISPOSAL FACILITY, BARRICK GOLDSTRIKE MINE | ELKO, NEVADA

Grading Stage 11 embankments, roaster corridor, haul roads, and access roads for North Block Tailings Disposal Facility (NBTDF), and drafted plans for construction. Assisted with the EDC design for the tailings beach pad and drafted drawings. (Tierra Group, 2015 to Present)

STAGE 8 TAILINGS STORAGE FACILITY (TSF) RAISE, DON MARIO MINE | SANTA CRUZ, BOLIVIA

Design support for the Stage 8 TSF Raise. Created surfaces for diversion channel and Stage 8 TSF Raise. (Tierra Group, 2015)

LA ESPERANZA STAGE 6 TSF RAISE, LA LIBERTAD MINE | LA LIBERTAD, NICARAGUA

Drafted drawing set for the Stage 6 TSF Raise. Designed and created surfaces for diversion channels and Stage 6 TSF Raise. (Tierra Group, 2015)

GOLDFIELD BONANZA, LODE STAR GOLD | GOLDFIELD, NEVADA

Prepared documents and drawings for Water Pollution Control Permit for Lode Star Gold. Assisted in mine waste placement plan. (Tierra Group, 2017 to Present)

Hydrology/Hydraulics

McLAUGHLIN MINE, HOMESTAKE MINING COMPANY OF CALIFORNIA | LOWER LAKE, CALIFORNIA

Modeled dam breach for McLaughlin TSF as part of the Emergency Action Plan (EAP). Assisted in design of seepage collection sumps, diversions, pond sizing, and berm raise for closure maintenance at mine site. (Tierra Group, 2017 to Present)

LOS GATOS TSF, MINERA PLATA REAL | MEXICO

Modeled dam breach for the Los Gatos TSF as part of the EAP. Created drawings and analyzed the inundation limits downstream of the TSF. (Tierra Group, 2018)

JAGUAR WATER MANAGEMENT PLAN, TURMALINA MINE AND CAETÉ MINE | BELO HORIZONTE, BRAZIL

Created Water Management Plans (WMP) for Turmalina Mine and Caeté Mine for Jaguar Mining. Traveled to sites for observation of water management and collected all necessary data to create WMP's. Climate data and current conditions of the mines water management were analyzed. The WMP's included a mass balance spreadsheet, HEC-HMS models, and recommendations to improve the mines water management. (Tierra Group, 2016 to Present)

SAN JOSÉ TSF EMERGENCY SPILLWAY DESIGN, EL LIMON MINE | LEON, NICARAGUA

Sized a spillway to pass the probable maximum precipitation (PMP). This included creating HEC-HMS model, HEC-RAS model, and analyzation of watersheds surrounding TSF. (Tierra Group, 2017)

BLOWOUT CREEK SEDIMENTATION MODEL, MIDAS STIBNITE GOLD PROJECT | YELLOW PINE, IDAHO

Drafted a spreadsheet for Sedimentation model simulating the Blowout Creek watershed. Assisted in analyzation of watershed and input parameters into spreadsheet. Created drawings for model. (Tierra Group, 2015 to 2016)

TSF3, BARRICK GOLDSTRIKE MINE | ELKO, NEVADA

Assisted in analyzing freeboard reduction for Stage 2B, which involved reducing the watershed areas reporting to TSF3. Designed liner bench and drafted figures for freeboard reduction. (Tierra Group, 2015)

SITE-WIDE SERVICES, BARRICK GOLDSTRIKE MINE | ELKO, NEVADA

Updated EAP for Mill 4 TSF, NBTDF, TSF3, AA TSF, and Roaster Pond. This involved updating topography, HEC-RAS models, and EAP reports and figures. (Tierra Group, 2015)

FIRE CREEK WASTE ROCK STORAGE FACILITY, FIRE CREEK MINE | LANDER COUNTY, NEVADA

Assisted in drafting report for a minor modification for the Water Treatment Pond. (Tierra Group, 2015)

PREFEASIBILITY STUDY, MIDAS STIBNITE GOLD PROJECT | YELLOW PINE, IDAHO

Assisted in spreadsheet and drawings for design of Stream restoration. Spreadsheet consisted of calculations for channel sizing, stream meander lengths, stream sinuosity, and Manning's n. (Tierra Group, 2015)

Professional Affiliations

American Water Works Association (AWWA), Member

Publications

Prettyman, JB, Johnson MC, and Barfuss SL, 2016. "Comparison of Selected Differential-Producing, Ultrasonic, and Magnetic Flow Meters". Journal of American Water Works Association, 108:1, pp. 77. January 2016.

Employment History

CURRENT EMPLOYER	TIERRA GROUP INTERNATIONAL, LTD.
POSITION	Civil Engineer
YEARS	2017 to Present

CURRENT EMPLOYER	TIERRA GROUP INTERNATIONAL, LTD.
POSITION	Staff Engineer II
YEARS	2015 to 2017

EMPLOYER	UTAH WATER RESEARCH LABORATORY
POSITION	Research Assistant
YEARS	2013 to 2015

EMPLOYER	UTAH WATER RESEARCH LABORATORY
POSITION	Lab Technician
YEARS	2008 to 2013

Language Proficiency

Portuguese: Fluent (spoken)