



**Logan Westgard, EIT**  
Staff Engineer

---

## Education

---

BS, Chemical Engineering, Miami University, 2021

---

## Experience Summary

---

Mr. Westgard is a Staff Engineer with a chemical engineering background. His field experience includes analyzing surface water flow and chemistry, providing resident engineer (RE) services during construction, instrumentation monitoring and data collection, and technical report preparation. In addition, Mr. Westgard is proficient using MATLAB, Simulink, Inclanalysis, HEC-HMS, HEC-RAS, HY-8, Hydraulic Toolbox, and AutoCAD Civil 3D software.

---

## Project Experience

---

### **EL MOCHITO MINE | HONDURAS**

Provided RE support and instrumentation analysis to evaluate Tailings Storage Facility (TSF) functionality and conformance. Project work included dam crest raises, hydraulic water management structure design, and instrumentation monitoring programs. Prepared annual monitoring reports detailing facility performance and recommendations. (Tierra Group, 2021 to Present)

### **CANDELONES PROJECT | DOMINICAN REPUBLIC**

Evaluated Acid-Base Accounting (ABA) test results from various samples for the potential to produce acid rock drainage (ARD). (Tierra Group, 2023)

### **NORTH BLOCK TAILINGS DISPOSAL FACILITY/TSF3, GOLDSTRIKE MINE | NEVADA**

RE fieldwork services included inclinometer data collection, analysis, construction support, and supervision. Collected data monthly from several inclinometers and analyzed the inclinometer movement using Inclanalysis software. Supervised earthworks placement, grading, and geomembrane liner installation for a TSF raise, earthworks and liner installation for a pipeline corridor, and earthworks and armoring of a spillway. (Tierra Group, 2021 to Present)

### **WATER TREATMENT PLANT POND, TURQUOISE RIDGE MINE | NEVADA**

Performed RE duties, including observation and documentation for the pond lining, earthworks placement, and geomembrane liner installation. (Tierra Group, 2022)

### **WASTE ROCK MANAGEMENT PLAN, ISABELLA PEARL MINE | NEVADA**

Prepared a Waste Rock Management Plan (WRMP) for encapsulating potentially acid-generating waste rock and a site-wide Temporary Plan for Permanent Closure (TPPC) per the Nevada Division of Environmental Protection (NDEP) guidelines. Reviewed and provided updates for the client's Standardized Reclamation Cost Estimator (SRCE) spreadsheet. (Tierra Group, 2022)

### **WATER MANAGEMENT, McLAUGHLIN MINE | CALIFORNIA**

Hydrologic and hydraulic evaluation and design of various water management structures for the Davis Creek Reservoir (DCR) and Tailings Impoundment Facility (TIF). Delineated upland watersheds modeled in HEC-HMS to determine peak flows and design the necessary water management structures. (Tierra Group, 2022)

### **TSF DIVERSION CHANNEL AND SPILLWAY, SAN JOSE TSF | NICARAGUA**

Designed water management structures, including a diversion channel and spillway for the TSF dam crest raise. Completed hydrologic and hydraulic modeling and drafted the designs in Civil 3D for use in the final TSF raise design report. (Tierra Group, 2022)

**WATER BALANCE, BIG LEDGE MINE | NEVADA**

Created a site-wide water balance to model the draindown of an open pit and evaluate the need for evaporation ponds to facilitate the pit drain down. Collaborated with the client and third-party consultants to ensure the Excel and GoldSim models functioned properly and the draindown target was achieved. (Tierra Group, 2022)

**LONG CANYON GOLD MINE | NEVADA**

Assisted with monitoring the recovery water supplementation below the mine site following aquifer pumping. The project included identifying and remediating adverse field conditions; performing calibrations and analyzing AquaTroll and Hydrotech instrument data; completing high-quality data upload, reporting, technical writing for daily reports; and client interaction for project-related questions, issues, and meetings. (NewFields Mining and Energy Services, 2018)

---

**Employment History**

---

<b>CURRENT EMPLOYER</b>	<b>TIERRA GROUP INTERNATIONAL, LTD.</b>
<b>POSITION</b>	Staff Engineer
<b>YEARS</b>	2021 to Present

---

**Language Proficiency**

---

English: Native