

## Shoreline Erosion Control

While you are considering who is the right team to work with for your land stabilization project, we urge you to look no further than with us at L4. As a company with roots along the lake shores of Michigan, we endeavor to not only support our local businesses, but are always exploring opportunities to participate in local projects related to the development of our state and local community. At L4, we strive to employ our services to customers quickly, in order to maintain a high level of value. We understand that "time is money".

## A legacy of efficiency, quality, and integrity

For four generations, Matt Lamar and family have built a legacy of efficiency, quality, and integrity built on a foundation of fairness and team solidarity. Lamar Construction was based in Holland, MI and opened its doors in 1936. In 2010, Matt Lamar and his family moved to Greeley, CO and decided to continue on with the family tradition as L4 Construction. Having a passion for the environment, Matt decided to expand the scope of L4 operations by creating an environmental division. His ambition was to create an environmental team that valued Colorado's beautiful outdoors and to take part in a future that supported its preservation.

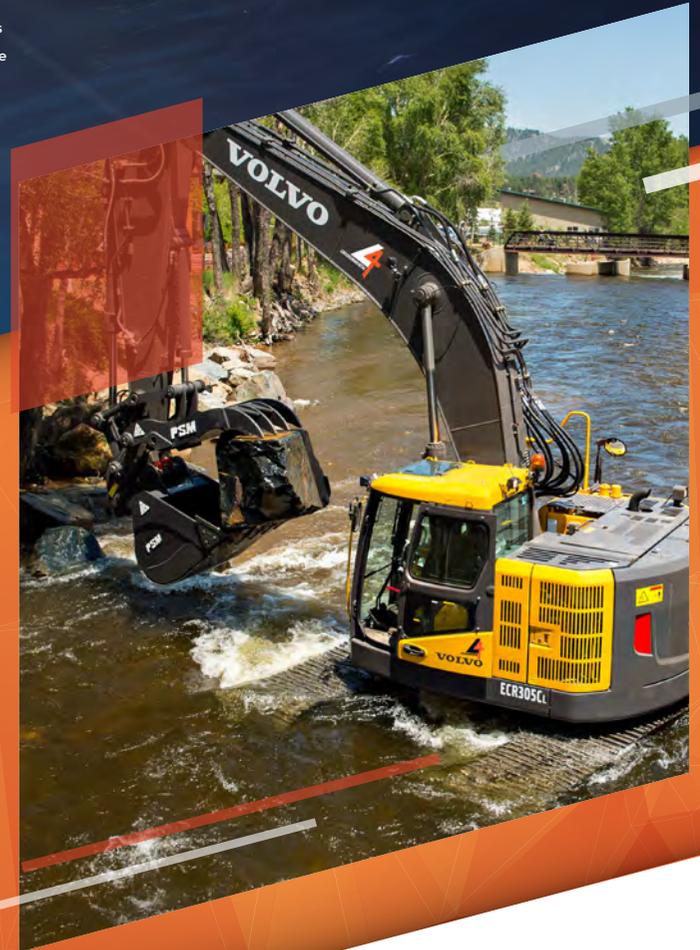
Matt Lamar has personally managed projects in excess of \$300 million and has developed a long standing reputation for outstanding work quality, fair dealings, and consistently delivering on his word. His most recent of several large scale projects was for Leprino Foods. During his transition to Greeley, Colorado, he was responsible for the completion of the Greeley Leprino Foods Facility as the Project Executive. This is a 900,000 square foot, state of the art sanitary construction project. Overseeing a management staff of 15 personnel and a labor force in excess of 500 at its peak, Matt led the project to completion as scheduled in March of 2013.

Looking forward, L4 Construction continues a long tradition of family history in commercial construction, transportation, and environmental construction.

## SHORELINE EROSION CONTROL



## A division of L4 Construction LLC DBA L4 Environmental



## Advantages

L4 is a prime contractor, with operations in Colorado, New Mexico, Kansas and Michigan that offers several distinct advantages in our services. Our staff's history in bank stabilization solutions gives us a unique understanding of the environment. Our appreciation of Michigan's natural beauty drives the intricate processes of value engineering and construction, ensuring that all work is completed within a sustainable scope. Our extensive work history within the region allows us to maintain positive and loyal relationships with local resources. Due to the nature of these environmental projects, we also have the fluidity to change at a moment's notice based on field conditions and client preferences.



(970) 628 0047

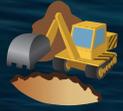


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## Land Stabilization Solutions & Emergency Services

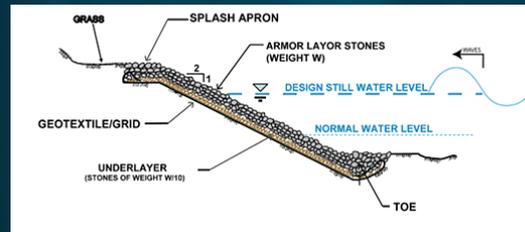
### Wooden, Concrete & Sheet Pile Bulkheads with Toe Protection

Bulkheads are vertical sea walls constructed of pressure-treated wood, concrete sections or steel sheet pile. These sections have a tongue and groove type edges which fit together with adjacent sections and is driven into the ground for stability. Additional stability is provided by tie-backs which extend from the exposed face of the wall into the embankment to a fixed anchor. The toe, or the embankment below the bulkhead that is exposed to water is typically protected from currents and waves by large granite rocks, called rip-rap.



### Riprap Revetments

Granite riprap can be used in areas where larger rock is needed for stability or to resist the forces of strong currents or wave action that can degrade banks. The rock will differ in size depending on the treatment necessary to the situation at hand. Typically, a geotextile is placed under the riprap to further reduce the energy of the water on the soil and further prevent soil loss.



### Sand Bag Protection

Sandbags help prevent erosion and protect assets in danger from erosion or natural disasters. Sandbag structures can provide wave breaks, temporary reefs, groynes, breakwaters, and headlands or revetments on sand beaches. These products are normally viewed as a temporary measure, but are proven to last and perform well. Geotextile sandbags and tubes work by reducing a wave's energy before it hits the shore, which slows erosion. Sandbags can be a solution for many types of erosion control as well as generally being less costly and a rapid resource to deploy in emergency situations.

### Emergency & Disaster Services

Granite riprap can be used in areas where larger rock is needed for stability or to resist the forces of strong currents or wave action that can degrade banks. The rock will differ in size depending on the treatment necessary to the situation at hand. Typically, a geotextile is placed under the riprap to further reduce the energy of the water on the soil and further prevent soil loss.

