

presents:

THE DRIVING FORCE

The Newsletter From Your Anchoring Professionals

© 2000

3rd Quarter 2000

MANTA RAY/STING RAY Training Program July 26, 27, 28, 2000 Denver, Colorado USA

There were over 40 distributors, representatives, and users of our product that attended the program. Internationally we had attendees from New Zealand, Korea, Trinidad, El Salvador, Israel, and Puerto Rico. The program entailed one day of lectures, with an overview of our product line and presentations, and one day of demonstration with equipment.

Etienne Mendez, Geo Technologies Trinidad and Tobago, spoke on his software program designed to calculate the type of anchor, spacing, length of anchor rods, and construction details for segmental block walls. This program easily used, when filling in certain soil information, calculates the rest of the data. It is an excellent way to present information to engineers who are reviewing the project for use of anchoring systems. Etienne has agreed to make his software program available to those who are interested.

Gerardo Osegueda Gine from CPK Consultores SA, El Salvador, gave an overview on how he approaches slope stabilization projects based on Peck's formulas. He has also developed a software package where by inserting soil data it will calculate the anchor capacities and the spacing



Attendees at Demonstration Day

for the anchors on slope stabilization projects. These usually involve shotcrete.

Jacob Meiri of Agronof Ltd. Israel, provided interesting information on inserting MANTA RAY anchors in existing gabions that are already in place. Please see article below.

Also discussed were methods of stabilizing foundations using our anchoring systems with grout socks, anchoring for freestanding towers, for guying, and other various topics. The general reaction has been that the Seminar was extremely informative, and there was a lot of interaction among attendees exchanging ideas.

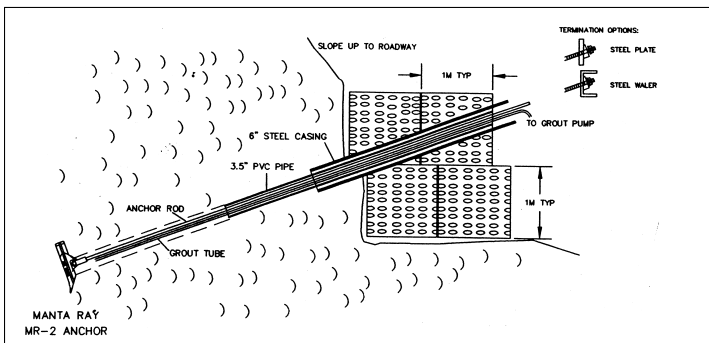
On the second day we held a hands on demonstration showing all the types of installation methods for anchoring systems. These included hand held drive methods, mounted break on the Bobcat, MANTA RAY Drive Mast, MANTA RAY Anchor Driver, vibratory plate compactor, and down the hole hammer. The Drive Mast was a hit. We have received several orders for that piece of equipment. We were able to show the flexibility of our system as it adapts to most standard installation equipment.

As a finale to our training program, on Saturday we had a day of leisure, enjoying white water rafting down the Arkansas River. We did the "Numbers", a series of 7 falls, Class IV. On the first set up rapids the writer immediately went over board along with one of the Kiwis. Everyone seemed to like our "Frog Man" act. We were not the only ones that went in though, another raft flipped over TWICE!

We've had numerous comments that it was an excellent training program and everyone enjoyed themselves. We look forward to doing it again.

How to Install MANTA RAY Anchors Through Existing Gabion

1. Use drill rig to rotate and push casing through gabion.
2. Auger 100 mm (4") through casing to remove rocks from casing and continue to 7 M depth.
3. Install MR-2 Anchor equipped with grout tube to bottom of hole.
4. Install 87 mm (3.5") PVC pipe to 3M depth over anchor rod and grout tube
5. Remove steel casing.
6. Lock anchor by pulling back on anchor rod with drill head (use eye nut and chain to drill head).
7. Pump grout down grout tube for additional holding capacity and corrosion protection.
8. Terminate anchor with 40 cm x 40 cm x 10 cm plate or structural waler.



EDITORIAL COMMENT



Good news. Thanks to your efforts we are pleased to report that through the second quarter of year 2000, our revenues are running at a rate 40% higher than 1999.

Good news again! We have implemented programs to accommodate the additional sales. We accelerated our purchases, made some changes in production, and we have reorganized our shipping so that we are able to handle the increase in orders. Our lead-time is now back to the normal time frames. You should not see delays in any of your orders for normal products. We are very pleased that we are able to operate at this higher level.

Coke Bins - A New MANTA RAY Application

AIMCOR of Long Beach, California wished in increase the storage capacity of a 30 year old Coke Storage building. The building, an A-frame steel structure built on top of asphalt covered earth berms, is approximately 600 feet long, 200 feet wide and nearly 100' tall from the roof peak to the floor. The inside slope of the earth berms as originally built was approximately 1.5h:1v. AIMCOR decided that by increasing the inside slope of these earth berms the capacity could be significantly increased. AIMCOR worked with the Port of Long Beach, MTI, and Law Crandall to design and supervise the reshaping of the inside slope along with several other improvements.

The desired capacity increase required reinforcement of the slope by the addition of 20,000 pounds (89kN) capacity tensile soil anchors evenly spaced around the slope on 4 levels down the slope. The slope would then be faced with a steel mesh and shotcrete as a final surface.



Driving MANTA RAY anchor with skid steer loader. Note small bench and new steep slope. Old slope and floor are visible at left side of photo.

Ledsam Contracting and RNF Associates (California Distributor for MANTA RAY Earth Anchors) performed a pre-bid qualification test of the MANTA RAY system. MR-1 and MR-2 anchors were installed to 21 feet, then proof tested to 23,000 pounds (102kN), using a Bobcat Skid Steer Loader and a mounted pavement breaker equipped

with the SGS 250 Socket shank. The use of a 4" (100mm) pilot hole was demonstrated to increase the speed of installation.

Ledsam Contracting used the advantages of the MANTA RAY system to win the contract. The job included the installation of nearly 1000 MR-2 anchors to an average depth of 22 feet (7M). The slope would be re-shaped in 4 benches proceeding from top down. Each bench would be excavated, the anchors would be driven, then the face would be meshed and shotcreted, before moving to the next bench. Just another application for MANTA RAY!

Upgrades to the DUCKBILL Line

We are in the process of reviewing our DUCKBILL line. We are currently looking at different ways to make the products even more user friendly. We would welcome any comments that you have on changes that you would like to see on existing products and, any products that you would like to see incorporated into the line.

TRADE SHOWS

EI-Tech 2000
Odense Congress Center
Odense, Denmark
September 12-15 Booth #3000
Exhibited by: Gedso-Daugoch

Bordeaux
Bordeaux, France
November 28 - December 1
Booth 2K504
Exhibited by: Plantco France

Gala Bau 2000
Nürnberg, Germany
September 20-23 Booth #5-231
Exhibited by: Hinrich Meyerdiercks

Miacon
Miami Beach, Florida, USA
December 7-9 Booth 1250
Exhibited by: Foresight
Products

Urbavert
Paris Norte, France
September 25-27 Booth #EE83
Exhibited by: Plantco France

FORESIGHT[®]
PRODUCTS, LLC

6430 East 49th Drive
Commerce City, Colorado, U.S.A. 80022
(303) 286-8955 or 1-800-325-5360 • Fax (303) 287-3866

STING
RAY[™]

MANTA
RAY[®]

DUCKBILL[®]

Quality

It shall be the policy of Foresight Products, LLC. to provide defect-free product and service on time, every time, to all customers that require earth anchoring systems.