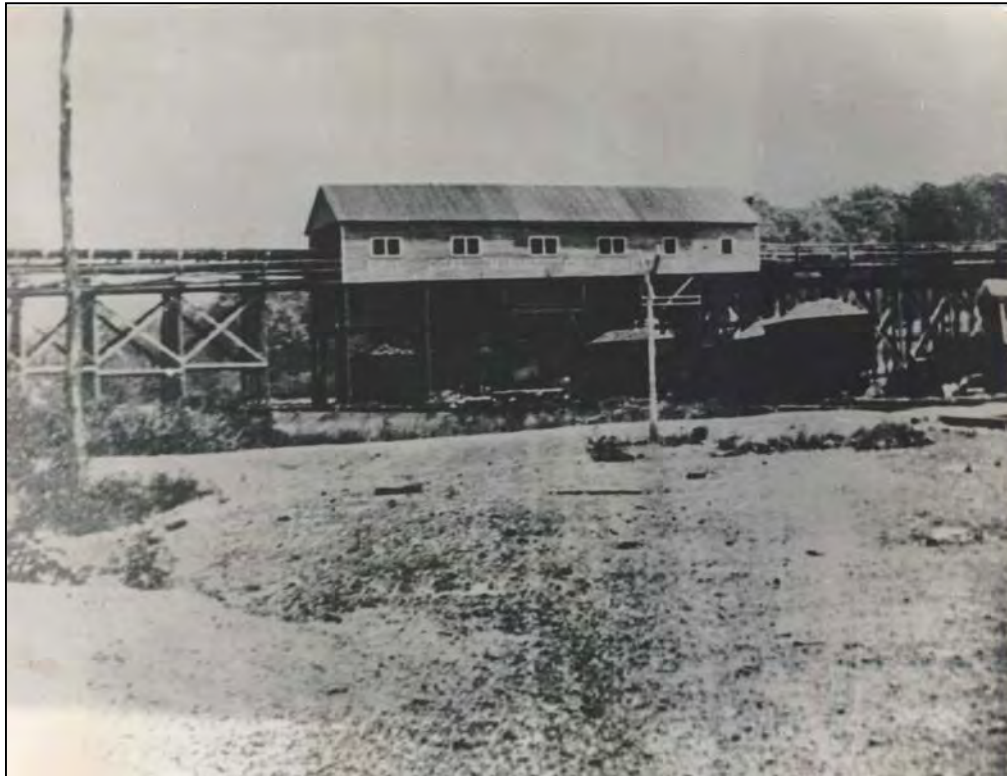


PHOTOGRAPHS



Historical photos provided by the Dorenkamp family of the mining town of Erico. (Name probably derived from Erie Coal.) Visible (upon photo enlargement) on the tippel **(Above)** was the sign "Erie Coal Mining Co."





Historical photos of Erico provided by Dorenkamp family. A playground (swings, slide, and merry-go-round) can be seen in the photo below with tipple in background.





Above: A train station along the B&LE line in the nearby town of Branchton. The spur to Goff and Hilliards began here. (photos obtained from www.familyoldphotos.com)

Below: July 9, 1907 train wreck at Branchton. This train could have been carrying coal from Erico to the Lake Erie port of Conneaut, OH for distribution along Great Lakes.





The Flick Gob Pile (Above) defined the northern bank of Seaton Creek in February 2001 while the “L-shaped” Gob Pile (Below) defined the southern bank of Seaton Creek and an adjacent wetland. Bob Beran stands on top of the gob.





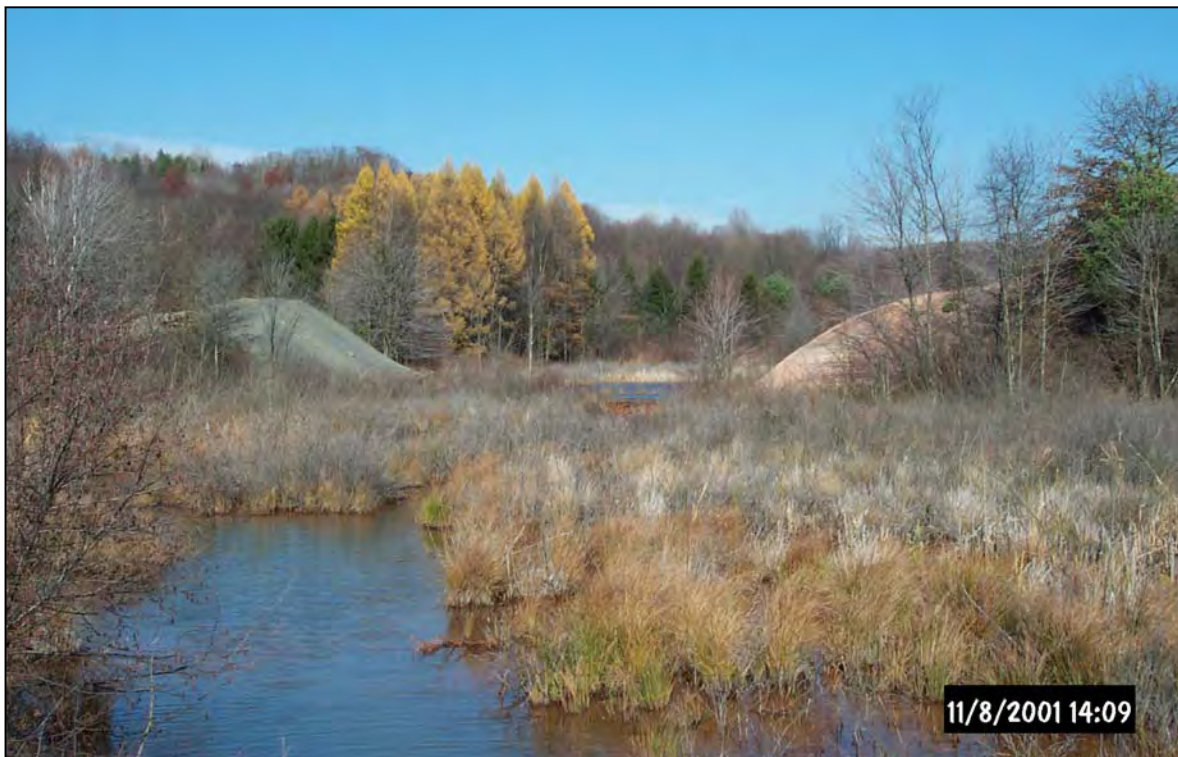
Views of the L-Shaped gob pile in Seaton Creek. Note the erosion gullies in the above photo. These gob piles contributed metals, acidity, and sediment to the stream. Also note the red color of the oxidized iron.





Above: View of the L-shaped gob pile extending along Seaton Creek

Below: The Flick and L-shaped gob piles significantly “narrow” the stream channel of Seaton Creek.





Above: ST63E discharge, largest of the five abandoned mine discharges at the site, averages over 300 gpm with maximum flows over 700 gpm. ST63E issues from Erie Coal Mining Co. Keystone #3 underground mine. **Below:** Flows were measured with a V-Notch weir installed by the PA DEP Knox District Mining Office.





Views of the extensive iron deposition and “kill zone” located below the ST63E abandoned mine discharge.





ST63A and ST63A1 discharges emanate within a road ditch along Erico Road a short distance before entering Seaton Creek near the bridge.



ST63C discharged from a pipe **(Above)** into a channel **(Below)** where Cliff Denholm (BioMost) conducted monitoring.





Top Left: Laura Spencer (Aquascape) during Environmental Assessment of Erico Bridge Restoration Area. (8/01/01)

Top Right: AMD discharge, photographed during Environmental Assessment. (8/01/01)

Below: Iron precipitation in AMD drainageway, photographed during Environmental Assessment. (8/01/01)



Iron accumulation and impacted wetlands below AMD discharges were documented during the Environmental Assessment as part of the permitting process to justify the reclamation effort and obtain approval to build the passive treatment system (8/01/01).





10/03/01 Groundbreaking Ceremony (**Above from left to right**) – John Wells (Venango Twp. Supervisor), Todd Lawton (Scrubgrass Generating), David Hess (PA DEP), Margaret Dunn (SRI), Jim Shaffer (Venango Twp. Supervisor), Glenn Anderson (Butler Co. Commissioner), Robin Lutz (Senator Mary Jo White's office), Joe Aloe (Quality Aggregates), Joan Chew (Butler Co. Commissioner), Jane Rath (Rep. Dick Stevenson's office). Former PA DEP Secretary Dave Hess presenting two checks (**Below**) to Margaret Dunn of Stream Restoration Incorporated (non-profit).





Above: Construction of access road for gob removal by Quality Aggregates.

Below: Removal of Flick gob pile along Seaton Creek. Coal refuse was transported to an abandoned surface mining pit, mixed with alkaline, circulating, fluidized-bed coal ash and placed in the backfill, effectively reclaiming two sites at once. (1/25/02)





Above: Footprint of the Flick pile following gob removal.

Below: Removal of portion of L-shaped gob pile containing “red dog”.





Mike and Jim from McKay & Gould Drilling Company worked with Margaret Dunn and Tim Danehy of BioMost, Inc. to install piezometers as part of the hydrogeologic investigation of the site for Passive Treatment System Design.





Top: Footprint of removed portion of the L-shaped gob pile (3/1/02)

Right: Close-up of a small section of the footprint of the L-shaped gob pile where the chemical reactions within the pile resulted in colorful mineralogy.





John Stoops, Mike Colosimo, and Kevin Stiner of Quality Aggregates installing Z-piling in order to maintain pre-project stream elevation from existing beaver dam across Seaton Creek at the “narrows” between the Flick and L-shaped gob piles. (3/28/02)





Above: Lorenzo de la Puente traveled from Peru (!!) to tour the watershed. Seen here at Erico are (left to right) Lorenzo (Estudio Grau Env. Gp.), Kevin Stiner (QAI), Laura Spencer (AQ), John Stoops (QAI), Mike Colosimo (QAI), Margaret Dunn (SRI).
Below: Foreground - footprint of Flick gob pile; background - footprint of L-shaped gob pile with access road through T-bone gob pile. (4/9/02)





Participants of the Slippery Rock Watershed Coalition 7th Annual Symposium field tour stop at Erico Bridge to view construction of wetlands being created where the gob piles once stood. Rosa Ocana, Antamina Mining, came all the way from Peru (!!) just to visit the SRWC.





Alkaline, pond fines from the Quality Aggregate Boyers limestone quarry were mixed with soil and on-site material to create the substrate in the wetlands. Once the substrate was placed, woody debris such as logs and stumps were included to increase diversity and discourage preferential flow paths. Geotextile and then limestone was placed on top of the Z-piling.





Aquascape employees, Laura Spencer, Jeff Reidenbaugh, and Cody Salmon, **(Above)** with harvested vegetation for wetland planting with Americorps (Slippery Rock University chapter) **(Below)** in the footprint of the Flick gob pile.





In the above photo, award-winning, mine reclamation experts Jack Foreman (right) and John Foreman (left) volunteered their time to meet with Tim Danehy (center) at the Erico Bridge site to review past work and the current passive treatment system design. Both Jack and John were involved at this site over 30 years ago during Pennsylvania's Operation Scarlift program when the mine seals were installed. Below, passive treatment expert Dr. Bob Nairn, formerly of US Bureau of Mines and current University of Oklahoma professor brought students on a tour of SRWC reclamation projects.





Before installation of the passive treatment system, the site was cleared and grubbed (**Above**) with erosion and sedimentation controls installed, such as this upslope straw mat-lined diversion ditch (**Below**).





Additional piezometers, were installed by McKay and Gould **(Above)**, for further site characterization before construction of the passive treatment system. **(Below)** Stream Restoration Inc. interns Steve Short and Chris Treter conducting chemical field tests and measuring mine pool water elevations.





Quality Aggregates constructed the passive treatment system. Settling Pond 1 can be seen below.





Field construction meetings like the one above with Tim Danehy (BioMost), Roger Bowman (PA DEP Knox DMO), and John Stoops (Quality Aggregates) were held periodically throughout the project. Prior to major construction, a downslope berm was built to intercept some site drainage. This berm was incorporated into several components. [Note red color of Seaton Creek substrate. At site of former Flick gob pile is a created wetland (left center) across Seaton Creek.]





Excavation for Horizontal Flow Limestone Bed required substantial “dirt moving”.





Homeschool students accompanied by parents/teachers participated in a tour of the Erico and Goff Station Reclamation Areas with SRI and Aquascape personnel. During the tour, participants had the opportunity to see construction of the Erico Bridge passive treatment system including the placing of aggregate in the Horizontal Flow Limestone Bed below.





Anoxic Limestone Drain 1 (ALD1) included 8,300 tons of aggregate. The customized, effluent manifold piping system can be seen above and below.





Approximately 5 feet of AASHTO #1, 90% CaCO_3 , Vanport limestone from Quality Aggregates' Boyers Quarry was placed on top of geotextile. A portion of the effluent collection manifold piping system can be seen below.





Views of the partially-excavated Wetland 2. Horizontal Flow Limestone Bed and ALD1 can be seen in the background of the photo below.





John Frith, Fran Toohill, and Penny Kaercher of The Dominion Foundation braved the cold, blustery, weather to visit the Erico Bridge Restoration Project with John Stoops and Kevin Steiner of Quality Aggregates and Margaret Dunn and Shaun Busler of Stream Restoration.





Those who participated in the Slippery Rock Watershed Coalition 8th Annual Symposium had the opportunity to see the Erico Bridge Reclamation Project while under construction.





Partially-constructed Settling Pond 2 (SP2) can be seen in the above photo as well as the completed Horizontal Flow Limestone Bed (HFLB). In the photo below, the spillway of SP2 to Wetland 1 (WL1) had not yet been built.





Construction of ALD2: Limestone aggregate has been placed. Non-reactive sandstone is being placed around ALD influent pipe and in several seeps to collect the discharge. Netting was placed around the pipe to prevent smaller-sized aggregates from entering perforations.





May 2003. **(Above)** PA DEP Watershed Academy participants visit. **(Below)** part of an educational workshop for teachers designed and conducted by PA DCNR Jennings Environmental Education for PA Environment and Ecology standards.





Maggie Allio of Aquascape **(Above)** harvesting wetland plants on 7/23/03 from the Hart Family's pond to prepare for large volunteer wetland planting event. Aquascape employees **(Below)** staged wetland plants on 7/25/03 for a large planting event.





As part of the youth conference of the Pittsburgh North Stake of the Church of Jesus Christ of Latterday Saints, 125-teenage volunteers arrived on 7/26/03 to plant the wetlands of the passive treatment system and to construct bluebird boxes.





“Wash-out” **(Above)** on spillway from SP3 to WL2 resulted from severe storms. Following temporary repairs by Aquascape Intern Greg Holloway, Quality Aggregates, as part of in-kind contributions, repaired the spillway. Work and play **(Below)** on 7/29/03 during one of the many plantings with Butler County Juvenile Court Services: Working Opportunities to Repay the Community Program.





An SRWC volunteer (**Above**) assisted Aquascape personnel in harvesting and planting on 8/15/03. WL1 (**Below**) is shown receiving flows from SP2. A black locust, part of the upland plantings, is visible in the foreground. WL2 and Seaton Creek wetland complex are visible in the background.





Grove City Cub Scout Pack 76 constructed wood duck boxes in November 2003 and then installed the boxes at the site with Beran Environmental on 3/13/04.





Participants of the 9th Annual Slippery Rock Watershed Coalition Symposium and the 21st Annual Meeting of the American Society of Mining and Reclamation toured the nearly completed Erico Bridge Restoration Area. People interested in passive systems came from all over the world including Korea, Brazil, and Venezuela!!!





Above: Excavation for Anoxic Limestone Drain 3 (ALD3).

Below: A portion of the effluent collection system has been installed.





Above: 90% CaCO_3 , AASHTO#1, Vanport limestone placed within ALD3.
Below: Effluent pipe capped until water turned into the system. Portion of Settling Pond 5 (SP5) completed.





During excavation for the ALD3 collection system (**Above**), AMD began to “bubble up” (**Bottom Left**). Upon further excavation, a pipe (**Bottom Right**) was discovered that conveyed ST 63A from the mine to Seaton Creek. ST 63A and ST63A1 were in different locations because the pipe had broken at some point in the past.





John Stoops and Wayne Fuchs (**Above**) of Quality Aggregates are cutting a section of pipe to be used in the ALD3 collection system. Piping was attached using a Fernco (**Below**) to the existing pipe that conveyed ST63A.





Above: A portion of the collection and distribution piping system for ALD3.

Below: Once ALD3 was completed, geotextile fabric was placed on top of the stone and then covered with on-site material.





Anoxic Limestone Drain 1 (ALD1) discharges **(Above)** into Settling Pond 1 (SP1) **(Below)**. Three baffle curtains were installed to increase retention time within the pond in order to oxidize and hydrolyze as much dissolved iron as possible.





Settling Pond 1 (SP1) discharges into Settling Pond 2 (SP2) **(Below)** via the Z-piling and riprap spillway **(Above)**.





In order to increase retention within Wetland 1 (WL1), a line of plants with snow fence for support was planted across the wetland near the inlet. Note the difference in color (**Below**) before the plant barrier on the left and after on the right indicating an increase in iron solids retention on the left.





Settling Pond 3 (**Above**) receives influent from Wetland 1. A baffle curtain was installed to decrease short-circuiting and to increase retention time before discharging into Wetland 2 via a rock-lined spillway (**Below**).





Anoxic Limestone Drain 2 (ALD2) discharges into Settling Pond 4 (SP4) **(Above)** which in turn discharges into Wetland 2 (WL2) via a rock-lined level spreader **(Below)**.





A seep zone (**Above**) located in the vicinity of pre-existing seeps flows into Wetland 2 near its outlet into the HFLB. A channel and berm (**Below**) were constructed to direct the water to the western end of WL2.





At Wetland 2 (**Above**) looking east towards the HFLB near SP4 effluent. Note osprey platform constructed by adjudicated youth of George Junior Republic, Grove City, PA. At Wetland 2 (**Below**) looking east from near middle.





Habitat features within WL2 **(Top Left)** include constructed snags, osprey nesting structures, wood duck boxes, large woody debris, and the interspersed of open water and emergent vegetation.

Rolled hay bales **(Top Right)** were placed in the central area of WL2 to increase water elevation levels, reduce short-circuiting and improve water retention. A second snag and osprey platform are located in the background.

Silt fence and another line of haybales **(Bottom)** were placed near WL2 effluent end to help keep iron from entering the Horizontal Flow Limestone Bed.



The Horizontal Flow Limestone Bed (HFLB) receives flow from Wetland 2 via a plunge pool **(Above)**. HFLB effluent **(Bottom Left and Right)** is one of two final discharge points for the passive treatment complex, which has exceeded over 700 gpm. A Kestrel box can be seen secured to a tree in the background **(Left)**.





Anoxic Limestone Drain 3 (ALD3) discharges into Settling Pond 5 (SP5) **(Above)** which flows through the existing wetland before discharging into Seaton Creek **(Below)**.





Views of the wetland constructed in the footprint of the L-shaped gob pile.





Above: A close-up of flowering plants in constructed L-shaped wetland
Below: Berm from WL2 sloping to east end of L-shaped wetland.





Above: Edge of Flick Wetland constructed in footprint of removed gob pile.

Below: Reclaimed upland adjacent to the Flick Wetland.





A goal of the project was to provide wildlife habitat. A Midland Painted Turtle **(Above)** was observed between WL2 and SP3 while reptile eggs **(Below)** were found between the HFLB and Seaton Creek.





During a wetland assessment in June 2004, fish spawning beds **(Above)** (indicating fish are reproducing) were found in Seaton Creek along the edges of the wetlands that were constructed within the footprints of the removed gob piles. Fish have been observed **(Below)** numerous times at Erico Road Bridge on Seaton Creek since completion of the project, possibly for the first time in 100 years.



PASSIVE TREATMENT SYSTEM O&M INSPECTION REPORT

12/04

| | |
|---------------------------------------|---|
| Inspection Date: _____ | Project Name: Erico Bridge Restoration Area |
| Inspected by: _____ | Municipality: Venango Township |
| Organization: _____ | County: Butler State: PA |
| Time Start: _____ End: _____ | Project Coordinates: 41° 07' 31" Lat 79° 51' 38" Long |
| Receiving Stream: Seaton Creek | Subwatershed: Seaton Creek Watershed: Slippery Rock Creek |

Weather (circle one): Snow Heavy Rain Rain Light Rain Overcast Fair/Sunny **Temp(°F):** ≤32 33-40 41-50 51-60 60+

Is maintenance required? Yes/No If yes, provide explanation:

INSPECTION SUMMARY

A. Revegetated Spoil Areas (Uplands and Associated Slopes)

Overall condition of vegetation on site: 0 1 2 3 4 5 (0=poor, 5=excellent, circle one) (See instructions.)

Is any reseeding required? Yes/No If yes, describe area size and identify location on Site Schematic:

B. Ditches, Channels, Spillways

| Channel Identification | Erosion Rills (Y/N) | Debris Present (Y/N) | Maintenance Performed (Y/N) | Maintenance Performed and Remaining (Indicate ditch by number i.e. 2b = SP2) |
|-------------------------|---------------------|----------------------|-----------------------------|---|
| 1. Diversion Ditch | | | | |
| 2. Rock-Lined Spillways | | | | |
| a. SP1 | | | | |
| b. SP2 | | | | |
| c. WL1 | | | | |
| d. SP3 | | | | |
| e. SP4 | | | | |
| 3. Emergency Spillways | | | | |
| a. HFLB | | | | |
| 4. Other Channels | | | | |
| a. HFLB to Seaton Creek | | | | |
| b. SP5 to Seaton Creek | | | | |

C. Passive Treatment System Components

| Component | Erosion Rills (Y/N) | Berms Stable (Y/N) | Vegetation Successful (Y/N) | Siltation Significant (Y/N) | Water Level Change (Y/N) | Valves Operable (Y/N) | Maintenance Performed and Remaining Indicate which component i.e. SP1 |
|-----------|---------------------|--------------------|-----------------------------|-----------------------------|--------------------------|-----------------------|--|
| SP1 | | | | | | | |
| SP2 | | | | | | | |
| WL1 | | | | | | | |
| SP3 | | | | | | | |
| SP4 | | | | | | | |
| WL2 | | | | | | | |
| HFLB | | | | | | | |
| SP5 | | | | | | | |

D. Access Roads

Are the access roads passable for operation and monitoring? Yes/No?

Do the access roads need maintenance? Yes/No?

Describe maintenance performed and remaining (Identify location on Site Schematic.):

E. Wildlife Utilization

Animal sighted or tracks observed _____

Invasive plants observed _____

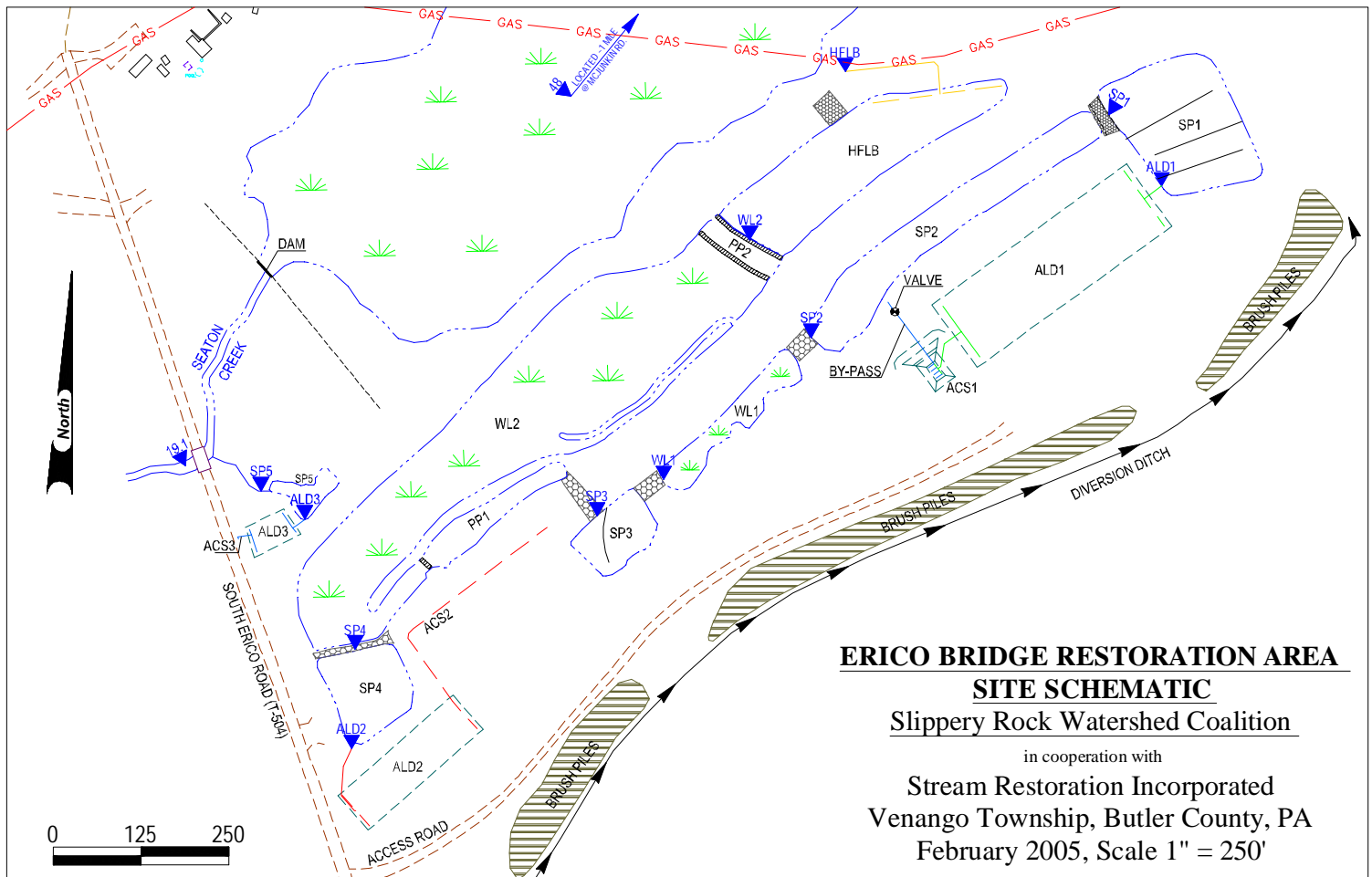
Describe any damage caused to treatment system by wildlife (especially muskrats) and required maintenance:

F. Field Water Monitoring and Sample Collection - Raw water sample locations as marked on plan. For passive components sample effluent.

■ - Not monitored

| Sampling Point | Flow | | pH | Temp (°C) | Alkalinity (mg/L) | DO (mg/L) | Iron (mg/L) | Comments | Bottle # | Bottle # (total metals) | Bottle # (diss. metals) |
|--|------|------|----|-----------|-------------------|-----------|-------------|----------|----------|-------------------------|-------------------------|
| | gals | sec. | | | | | | | | | |
| ALD1 | | | | | | | | | | | |
| SP1 | | | | | | | | | | | |
| SP2 | | | | | | | | | | | |
| WL1 | | | | | | | | | | | |
| SP3 | | | | | | | | | | | |
| ALD2 | | | | | | | | | | | |
| SP4 | | | | | | | | | | | |
| WL2 | | | | | | | | | | | |
| HFLB | | | | | | | | | | | |
| ALD3 | | | | | | | | | | | |
| SP5 | | | | | | | | | | | |
| 48 (Seaton Creek @ McJunkin Road) | | | | | | | | | | | |
| 19.1 (Seaton Creek @ Erico Rd. Bridge) | | | | | | | | | | | |

G. Site Schematic



ANNUAL WETLAND PLANT DIVERSITY REPORT

| | | | | | |
|-------------------|--------------|---------------|-------------------------------|----------------------|----------------------------------|
| Inspection Date: | _____ | Project Name: | Erico Bridge Restoration Area | | |
| Inspected by: | _____ | Municipality: | Venango Township | | |
| Organization: | _____ | County: | Butler | State: | PA |
| Time Start: | _____ | End: | _____ | Project Coordinates: | 41° 07' 31" Lat 79° 51' 38" Long |
| Receiving Stream: | Seaton Creek | Subwatershed: | Seaton Creek | Watershed: | Slippery Rock Creek |

Weather (circle one): Snow Heavy Rain Rain Light Rain Overcast Fair/Sunny **Temp(°F):** ≤32 33-40 41-50 51-60 60+

Wetland: _____

[illegible]

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63 | 1/6/1969 | Measured | 284 | | 3.8 | | | | 0 | 246 | 21.0 | | | | | | 576 | |
| ST 63 | 2/5/1969 | Measured | 284 | | 3.8 | | | | 0 | 138 | 17.6 | | | | | | 480 | |
| ST 63 | 3/10/1969 | Measured | 284 | | 3.8 | | | | 0 | 168 | 21.3 | | | | | | 528 | |
| ST 63 | 4/7/1969 | Measured | 236 | | 3.9 | | | | 0 | 146 | 23.1 | | | | | | 461 | |
| ST 63 | 5/5/1969 | Measured | 284 | | 3.5 | | | | 0 | 172 | 24.4 | | | | | | 470 | |
| ST 63 | 6/2/1969 | Measured | 193 | | 3.7 | | | | 0 | 122 | 34.6 | | | | | | 394 | |
| ST 63 | 7/8/1969 | Measured | 310 | | 3.7 | | | | 0 | 204 | 19.1 | | | | | | 432 | |
| ST 63 | 8/4/1969 | Measured | 236 | | 2.7 | | | | 0 | 334 | 24.6 | | | | | | 461 | |
| ST 63 | 9/8/1969 | Measured | 174 | | 4.5 | | | | 8 | 208 | 24.8 | | | | | | 586 | |
| ST 63 | 10/6/1969 | Measured | 156 | | 4.7 | | | | 0 | 212 | 15.6 | | | | | | 691 | |
| ST 63 | 11/3/1969 | Measured | 193 | | 3.9 | | | | 0 | 186 | 24.0 | | | | | | 576 | |
| ST 63 | 12/8/1969 | Measured | 284 | | 4.1 | | | | 0 | 224 | 19.0 | | | | | | 605 | |
| Min | | | 156 | | 2.7 | | | | 0 | 122 | 15.6 | | | | | | 394 | |
| Max | | | 310 | | 4.7 | | | | 8 | 334 | 34.6 | | | | | | 691 | |
| Avg | | | 243 | | 3.8 | | | | 1 | 197 | 22.4 | | | | | | 522 | |
| Range | | | 154 | | 2.0 | | | | 8 | 212 | 19.0 | | | | | | 297 | |

Description: Operation Scarlift background monitoring point prior to mine seal installation

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63A | 10/12/1994 | | | | 4.7 | | | | 8 | 116 | 43.0 | | 21.0 | | 0.5 | | 689 | 18 |
| ST 63A | 6/7/1995 | | 5 | | 3.7 | | | | 0 | 56 | 5.4 | | 6.6 | | 0.7 | | 326 | 6 |
| ST 63A | 9/12/1995 | | 20 | | 5.9 | | | | 70 | 224 | 102.0 | | 25.2 | | 0.5 | | 1109 | 54 |
| ST 63A | 10/11/1995 | | | | 5.8 | | | | 66 | 172 | 82.2 | | 23.5 | | 0.5 | | 971 | 136 |
| ST 63A | 11/14/1995 | | 10 | | 6.0 | | | | 80 | 180 | 87.8 | | 23.4 | | 0.5 | | 1204 | 32 |
| ST 63A | 12/27/1995 | | 50 | | 5.9 | | | | 82 | 302 | 109.0 | | 27.7 | | 0.5 | | 1273 | 3 |
| ST 63A | 2/21/1996 | | | | 5.9 | | | | 82 | 200 | 98.7 | | 24.9 | | 0.5 | | 1221 | 14 |
| ST 63A | 4/30/1996 | | | | 5.0 | | | | 8 | 15 | 1.1 | | 6.3 | | 1.4 | | 226 | 4 |
| ST 63A | 5/9/1996 | | | | 6.0 | | | | 86 | 274 | 99.8 | | 25.1 | | 0.5 | | 1068 | 39 |
| ST 63A | 6/18/1996 | | | | 5.9 | | | | 82 | 214 | 86.6 | | 21.2 | | 0.5 | | 1161 | 3 |
| ST 63A | 7/9/1996 | | | | 5.9 | | | | 84 | 196 | 90.9 | | 22.4 | | 0.3 | | 1076 | 10 |
| ST 63A | 8/15/1996 | | | | 5.9 | | | | 80 | 178 | 91.9 | | 24.0 | | 0.3 | | 970 | 43 |
| ST 63A | 9/10/1996 | | | | 5.9 | | | | 82 | 252 | 96.5 | | 24.6 | | 0.3 | | 1380 | 16 |
| ST 63A | 10/15/1996 | | 10 | | 6.0 | | | | 86 | 228 | 93.8 | | 24.2 | | 0.5 | | 1062 | 44 |
| ST 63A | 11/19/1996 | | | | 5.9 | | | | 86 | 240 | 96.4 | | 24.9 | | 0.5 | | 1095 | 48 |
| ST 63A | 1/23/1997 | | | | 6.0 | | | | 82 | 170 | 87.8 | | 22.2 | | 0.3 | | 1110 | 52 |
| ST 63A | 2/27/1997 | | 10 | | 5.7 | | | | 84 | 174 | 84.8 | | 21.3 | | 0.3 | | 984 | 20 |
| ST 63A | 3/19/1997 | | 6 | | 6.0 | | | | 86 | 186 | 89.6 | | 22.0 | | 0.3 | | 1095 | 14 |
| ST 63A | 5/20/1997 | | 5 | | 5.9 | | | | 84 | 236 | 87.4 | | 20.1 | | 0.3 | | 1041 | 40 |
| ST 63A | 8/6/1997 | | | | 5.9 | | | | 86 | 212 | 91.2 | | 23.2 | | 0.3 | | 1059 | 2 |
| ST 63A | 10/9/1997 | | | | 5.9 | | | | 86 | 242 | 89.0 | | 23.8 | | 0.3 | | 1144 | 12 |
| ST 63A | 1/7/1998 | | | | 5.8 | | | | 88 | 216 | 102.0 | | 26.6 | | 0.3 | | 1210 | 8 |
| ST 63A | 5/14/1998 | | | | 6.0 | | | | 86 | 154 | 85.9 | | 21.4 | | 0.3 | | 1034 | 56 |
| ST 63A | 12/7/1999 | | | | 6.0 | | | | 86 | 174 | 90.5 | | 24.8 | | 0.3 | | 1495 | 6 |
| ST 63A | 1/18/2001 | | | | 6.0 | | | | 96 | 158 | 103.0 | | 27.5 | | 0.3 | | 1407 | |
| ST 63A | 2/5/2001 | Bucket | 3 | 5.7 | 5.9 | 826 | 5 | 20 | 10 | 57 | 19.2 | 18.8 | 11.1 | 10.7 | 0.2 | 0.2 | 548 | 9 |
| ST 63A | 3/7/2002 | Bucket | 3 | 4.5 | 4.0 | 731 | | | 0 | 37 | 18.0 | 14.7 | 8.8 | 8.5 | 0.2 | 0.2 | 429 | 5 |
| ST 63A | 9/16/2003 | Estimated | 15 | | 6.0 | | | | 86 | 175 | 95.2 | | 22.4 | | 0.3 | | 1085 | 8 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63A | 10/30/2003 | | | | 5.9 | | | | 87 | 172 | 89.0 | | 21.7 | | 0.3 | | 848 | |
| ST 63A | 3/23/2004 | | | | 6.0 | | | | 83 | 133 | 79.3 | | 19.6 | | 0.3 | | 830 | 18 |
| Min | | | 3 | 4.5 | 3.7 | 731 | 5 | 20 | 0 | 15 | 1.1 | 14.7 | 6.3 | 8.5 | 0.2 | 0.2 | 226 | 2 |
| Max | | | 50 | 5.7 | 6.0 | 826 | 5 | 20 | 96 | 302 | 109.0 | 18.8 | 27.7 | 10.7 | 1.4 | 0.2 | 1495 | 136 |
| Avg | | | 12 | 5.1 | 5.7 | 779 | 5 | 20 | 70 | 178 | 79.9 | 16.7 | 21.4 | 9.6 | 0.4 | 0.2 | 1005 | 26 |
| Range | | | 47 | 1.2 | 2.3 | 95 | 0 | 0 | 96 | 287 | 107.9 | 4.1 | 21.4 | 2.2 | 1.2 | 0.0 | 1269 | 135 |

Description: Abandoned mine discharge; Was previously located along Erico Road across from the Three Rivers Sportsmens Club; Currently being collected and treated in ALD3

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63A-1 | 2/2/2001 | Cross-section | 44 | 5.8 | 6.2 | 1730 | 8 | 84 | 67 | 167 | 80.0 | 74.8 | 24.1 | 23.8 | 0.1 | 0.0 | 1076 | 7 |
| Min | | | 44 | 5.8 | 6.2 | 1730 | 8 | 84 | 67 | 167 | 80.0 | 74.8 | 24.1 | 23.8 | 0.1 | 0.0 | 1076 | 7 |
| Max | | | 44 | 5.8 | 6.2 | 1730 | 8 | 84 | 67 | 167 | 80.0 | 74.8 | 24.1 | 23.8 | 0.1 | 0.0 | 1076 | 7 |
| Avg | | | 44 | 5.8 | 6.2 | 1730 | 8 | 84 | 67 | 167 | 80.0 | 74.8 | 24.1 | 23.8 | 0.1 | 0.0 | 1076 | 7 |
| Range | | | 0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 |

Description: Abandoned mine discharge; Previously located on east side of Erico Road approximately 200 feet from Seaton Creek; Currently being collected and treated in ALD3

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63B | 6/7/1995 | | | | 5.9 | | | | 74 | 110 | 59.5 | | 20.1 | | 0.5 | | 688 | 18 |
| ST 63B | 8/16/1995 | | | | 5.8 | | | | 70 | 110 | 73.5 | | 25.1 | | 0.5 | | 819 | 22 |
| ST 63B | 9/12/1995 | | 20 | | 5.9 | | | | 76 | 184 | 74.0 | | 26.5 | | 0.5 | | 852 | 6 |
| ST 63B | 10/11/1995 | | | | 5.9 | | | | 74 | 158 | 78.4 | | 28.5 | | 0.5 | | 878 | 30 |
| ST 63B | 11/15/1995 | | 40 | | 5.8 | | | | 80 | 202 | 92.6 | | 3.3 | | 0.5 | | 1014 | 3 |
| ST 63B | 2/22/1996 | | | | 6.0 | | | | 68 | 94 | 49.9 | | 20.6 | | 0.5 | | 727 | 12 |
| ST 63B | 3/13/1996 | | | | 5.9 | | | | 68 | 146 | 53.7 | | 21.1 | | 0.5 | | 777 | 8 |
| ST 63B | 4/30/1996 | | | | 6.1 | | | | 78 | 160 | 87.2 | | 22.3 | | 0.5 | | 1001 | 9 |
| ST 63B | 5/9/1996 | | | | 6.0 | | | | 68 | 166 | 52.7 | | 19.5 | | 0.5 | | 755 | 32 |
| ST 63B | 6/18/1996 | | | | 5.9 | | | | 70 | 114 | 50.8 | | 18.1 | | 0.5 | | 794 | 4 |
| ST 63B | 7/9/1996 | | | | 5.9 | | | | 70 | 128 | 57.2 | | 20.6 | | 0.5 | | 738 | 2 |
| ST 63B | 8/15/1996 | | | | 6.0 | | | | 72 | 134 | 63.5 | | 24.7 | | 0.3 | | 709 | 28 |
| ST 63B | 9/10/1996 | | | | 5.9 | | | | 74 | 190 | 67.7 | | 25.9 | | 0.3 | | 836 | 4 |
| ST 63B | 10/15/1996 | | | | 6.0 | | | | 78 | 194 | 67.5 | | 26.0 | | 0.3 | | 826 | 20 |
| ST 63B | 11/19/1996 | | | | 5.9 | | | | 76 | 152 | 62.3 | | 23.0 | | 0.3 | | 811 | 28 |
| ST 63B | 1/23/1997 | | | | 5.9 | | | | 74 | 130 | 48.6 | | 17.6 | | 0.3 | | 720 | 36 |
| ST 63B | 2/27/1997 | | | | 5.7 | | | | 70 | 104 | 49.1 | | 17.8 | | 0.3 | | 684 | 10 |
| ST 63B | 3/19/1997 | | | | 6.0 | | | | 68 | 96 | 44.1 | | 15.5 | | 0.3 | | 635 | 2 |
| ST 63B | 5/20/1997 | | | | 5.9 | | | | 70 | 154 | 56.4 | | 18.6 | | 0.3 | | 947 | 12 |
| ST 63B | 8/6/1997 | | | | 5.9 | | | | 76 | 160 | 65.0 | | 23.8 | | 0.3 | | 833 | 8 |
| ST 63B | 10/9/1997 | | | | 6.0 | | | | 80 | 232 | 77.4 | | 28.8 | | 0.3 | | 985 | 8 |
| ST 63B | 1/7/1998 | | | | 5.9 | | | | 82 | 19 | 66.5 | | 26.0 | | 0.3 | | 910 | 22 |
| ST 63B | 5/14/1998 | | | | 6.0 | | | | 72 | 58 | 41.8 | | 15.0 | | 0.3 | | 558 | 40 |
| ST 63B | 1/18/2001 | | | | 6.1 | | | | 98 | 128 | 80.7 | | 29.8 | | 0.3 | | 911 | 2 |
| ST 63B | 10/8/2002 | | | | 6.0 | | | | 82 | 217 | 98.1 | | 22.8 | | 0.3 | | 846 | 8 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| Min | | | 20 | | 5.7 | | | | 68 | 19 | 41.8 | | 3.3 | | 0.3 | | 558 | 2 |
| Max | | | 40 | | 6.1 | | | | 98 | 232 | 98.1 | | 29.8 | | 0.5 | | 1014 | 40 |
| Avg | | | 30 | | 5.9 | | | | 75 | 142 | 64.7 | | 21.6 | | 0.4 | | 810 | 15 |
| Range | | | 20 | | 0.4 | | | | 30 | 213 | 56.3 | | 26.5 | | 0.3 | | 456 | 39 |

Description: Abandoned mine discharge; Previously emanated from a 12" smooth steel pipe located about 225 feet upstream of bridge; Currently is collected in anoxic collection system 2 and conveyed into ALD2

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63C | 10/12/1994 | | | | 6.0 | | | | 96 | 150 | 104.0 | | 41.5 | | 0.5 | | 1196 | 20 |
| ST 63C | 6/7/1995 | | | | 6.0 | | | | 92 | 160 | 79.0 | | 30.2 | | 0.5 | | 987 | 10 |
| ST 63C | 6/28/1995 | | 66 | | 6.0 | | | | 86 | 120 | 74.2 | | 28.2 | | 0.5 | | 946 | 8 |
| ST 63C | 8/16/1995 | | 66 | | 5.9 | | | | 86 | 196 | 91.4 | | 36.2 | | 0.5 | | 1076 | 26 |
| ST 63C | 9/12/1995 | | 78 | | 6.0 | | | | 94 | 218 | 93.2 | | 38.1 | | 0.5 | | 1251 | 10 |
| ST 63C | 10/11/1995 | | 72 | | 5.9 | | | | 92 | 186 | 90.9 | | 37.5 | | 0.5 | | 982 | 18 |
| ST 63C | 11/15/1995 | | 55 | | 5.9 | | | | 84 | 218 | 117.0 | | 40.7 | | 0.5 | | 1209 | 24 |
| ST 63C | 12/27/1995 | | 45 | | 6.1 | | | | 104 | 282 | 101.0 | | 40.4 | | 0.5 | | 1216 | 32 |
| ST 63C | 2/22/1996 | | 71 | | 6.0 | | | | 82 | 184 | 89.9 | | 33.5 | | 0.6 | | 1044 | 46 |
| ST 63C | 3/13/1996 | | 66 | | 6.0 | | | | 80 | 178 | 86.1 | | 34.8 | | 0.5 | | 1119 | 16 |
| ST 63C | 4/30/1996 | | 66 | | 6.2 | | | | 68 | 118 | 48.3 | | 18.0 | | 0.5 | | 580 | 3 |
| ST 63C | 5/9/1996 | | 55 | | 6.1 | | | | 88 | 234 | 79.6 | | 32.6 | | 0.5 | | 1087 | 19 |
| ST 63C | 6/18/1996 | | 66 | | 5.9 | | | | 86 | 178 | 76.9 | | 30.4 | | 0.5 | | 1146 | 12 |
| ST 63C | 7/9/1996 | | 55 | | 6.0 | | | | 90 | 166 | 78.2 | | 31.4 | | 0.3 | | 1217 | 2 |
| ST 63C | 8/15/1996 | | 36 | | 6.0 | | | | 86 | 180 | 80.3 | | 33.3 | | 0.3 | | 911 | 26 |
| ST 63C | 9/10/1996 | | 60 | | 6.0 | | | | 88 | 218 | 85.3 | | 35.6 | | 0.3 | | 1068 | 16 |
| ST 63C | 10/15/1996 | | 55 | | 6.1 | | | | 86 | 236 | 83.9 | | 34.1 | | 0.3 | | 1086 | 34 |
| ST 63C | 11/19/1996 | | 66 | | 6.0 | | | | 90 | 218 | 82.6 | | 33.7 | | 0.3 | | 1070 | 54 |
| ST 63C | 1/23/1997 | | 65 | | 5.9 | | | | 86 | 212 | 75.2 | | 30.1 | | 0.3 | | 1064 | 14 |
| ST 63C | 2/27/1997 | | 78 | | 5.8 | | | | 86 | 144 | 70.5 | | 28.7 | | 0.3 | | 947 | 16 |
| ST 63C | 3/19/1997 | | 66 | | 6.1 | | | | 86 | 152 | 63.7 | | 25.7 | | 0.3 | | 970 | 6 |
| ST 63C | 5/20/1997 | | 66 | | 6.0 | | | | 86 | 206 | 77.5 | | 29.8 | | 0.3 | | 1419 | 20 |
| ST 63C | 8/6/1997 | | 66 | | 5.9 | | | | 80 | 188 | 166.0 | | 33.5 | | 0.3 | | 1090 | 92 |
| ST 63C | 10/9/1997 | | | | 6.1 | | | | 100 | 246 | 91.1 | | 37.0 | | 0.3 | | 1207 | 2 |
| ST 63C | 1/7/1998 | | | | 5.9 | | | | 98 | 170 | 87.3 | | 35.1 | | 0.3 | | 1089 | 24 |
| ST 63C | 5/14/1998 | | | | 6.0 | | | | 88 | 116 | 67.2 | | 27.5 | | 0.3 | | 895 | 50 |
| ST 63C | 12/7/1999 | | | | 6.1 | | | | 110 | 174 | 91.0 | | 37.0 | | 0.3 | | 1022 | 2 |
| ST 63C | 1/15/2001 | Cross-section | 37 | 5.9 | 6.1 | 1835 | 10 | 96 | 99 | 151 | 77.3 | 75.8 | 36.7 | 36.1 | 0.1 | 0.1 | 1350 | 5 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63C | 1/18/2001 | | | | 6.1 | | | | 112 | 152 | 89.4 | | 35.6 | | 0.3 | | 1138 | 2 |
| ST 63C | 2/2/2001 | Cross-section | 53 | 5.9 | 6.3 | 1720 | 9 | 92 | 70 | 175 | 65.3 | 62.8 | 31.1 | 31.1 | 0.2 | 0.1 | 1129 | 9 |
| ST 63C | 3/7/2002 | Cross-section | 40 | | 6.3 | 1891 | | | 68 | 129 | 95.9 | 90.5 | 35.5 | 35.3 | 0.1 | 0.1 | 1415 | 7 |
| ST 63C | 5/7/2002 | Bucket | 50 | 6.1 | 6.0 | 2022 | 11 | | 67 | 252 | 121.1 | 110.3 | 36.2 | 35.1 | 0.2 | 0.1 | 1132 | 21 |
| ST 63C | 10/8/2002 | | | | 5.9 | | | | 84 | 244 | 101.0 | | 27.5 | | 0.3 | | 1054 | 12 |
| Min | | | 36 | 5.9 | 5.8 | 1720 | 9 | 92 | 67 | 116 | 48.3 | 62.8 | 18.0 | 31.1 | 0.1 | 0.1 | 580 | 2 |
| Max | | | 78 | 6.1 | 6.3 | 2022 | 11 | 96 | 112 | 282 | 166.0 | 110.3 | 41.5 | 36.1 | 0.6 | 0.1 | 1419 | 92 |
| Avg | | | 60 | 6.0 | 6.0 | 1867 | 10 | 94 | 88 | 186 | 87.3 | 84.8 | 33.3 | 34.4 | 0.3 | 0.1 | 1094 | 20 |
| Range | | | 42 | 0.2 | 0.5 | 302 | 2 | 4 | 45 | 166 | 117.7 | 47.5 | 23.5 | 5.1 | 0.5 | 0.1 | 839 | 90 |

Description: Abandoned Mine Discharge; Emanates from a 12" Smooth Steel pipe on west side of "T-Bone" Gob pile; Currently collected in Anoxic Collection System 2 and conveyed into ALD2

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63D | 9/12/1995 | | 12 | | 5.8 | | | | 15 | 34 | 4.8 | | 12.1 | | 0.5 | | 726 | 3 |
| ST 63D | 10/11/1995 | | | | 5.8 | | | | 11 | 24 | 7.3 | | 10.2 | | 0.5 | | 690 | 6 |
| ST 63D | 11/15/1995 | | 15 | | 4.9 | | | | 8 | 14 | 1.5 | | 8.6 | | 0.5 | | 536 | 3 |
| ST 63D | 12/27/1995 | | 6 | | 4.4 | | | | 7 | 38 | 1.0 | | 11.0 | | 0.5 | | 598 | 3 |
| ST 63D | 2/22/1996 | | 15 | | 4.1 | | | | 4 | 14 | 4.7 | | 9.4 | | 0.5 | | 413 | 7 |
| ST 63D | 3/13/1996 | | 12 | | 4.4 | | | | 6 | 46 | 0.7 | | 7.6 | | 0.5 | | 458 | 3 |
| ST 63D | 4/30/1996 | | 30 | | 6.2 | | | | 76 | 156 | 81.8 | | 30.4 | | 0.5 | | 1008 | 19 |
| ST 63D | 5/9/1996 | | 6 | | 4.6 | | | | 8 | 24 | 0.5 | | 6.5 | | 0.5 | | 415 | 3 |
| ST 63D | 6/18/1996 | | 15 | | 4.4 | | | | 6 | 38 | 0.9 | | 9.7 | | 0.5 | | 597 | 3 |
| ST 63D | 7/9/1996 | | 6 | | 5.1 | | | | 10 | 24 | 1.8 | | 9.8 | | 0.3 | | 588 | 2 |
| ST 63D | 8/15/1996 | | 4 | | 5.8 | | | | 13 | 28 | 2.8 | | 10.3 | | 0.3 | | 649 | 2 |
| ST 63D | 9/10/1996 | | 6 | | 5.5 | | | | 11 | 36 | 2.6 | | 10.0 | | 0.3 | | 587 | 4 |
| ST 63D | 10/15/1996 | | 5 | | 5.5 | | | | 11 | 26 | 2.0 | | 8.5 | | 0.3 | | 592 | 10 |
| ST 63D | 11/19/1996 | | 8 | | 4.7 | | | | 7 | 26 | 1.4 | | 7.2 | | 0.3 | | 424 | 20 |
| ST 63D | 1/23/1997 | | 6 | | 4.8 | | | | 7 | 28 | 1.0 | | 6.5 | | 0.3 | | 494 | 50 |
| ST 63D | 2/27/1997 | | 20 | | 4.3 | | | | 6 | 11 | 6.0 | | 5.6 | | 0.3 | | 329 | 4 |
| ST 63D | 3/19/1997 | | 20 | | 3.9 | | | | 0 | 44 | 1.9 | | 11.9 | | 0.5 | | 669 | 2 |
| ST 63D | 5/20/1997 | | 9 | | 4.5 | | | | 7 | 26 | 0.5 | | 6.1 | | 0.3 | | 510 | 2 |
| ST 63D | 8/6/1997 | | 2 | | 5.5 | | | | 12 | 36 | 2.8 | | 12.0 | | 0.3 | | 730 | 2 |
| ST 63D | 10/9/1997 | | 4 | | 5.6 | | | | 13 | 40 | 9.9 | | 9.4 | | 0.3 | | 713 | 12 |
| ST 63D | 1/7/1998 | Measured | 7 | | 4.6 | | | | 8 | 10 | 0.4 | | 6.7 | | 0.3 | | 491 | |
| ST 63D | 5/14/1998 | Measured | 6 | | | | | | | | 2.8 | | 5.4 | | 0.3 | | 445 | 2 |
| ST 63D | 1/15/2001 | Measured | 8 | 5.4 | | | 0 | | | | | | | | | | | |
| ST 63D | 1/18/2001 | Measured | 5 | | 5.7 | | | | 15 | 9 | 3.6 | | 11.2 | | 0.3 | | 695 | 2 |
| ST 63D | 2/2/2001 | Bucket | 6 | | | | | | | | | | | | | | | |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| Min | | | 2 | 5.4 | 3.9 | | 0 | | 0 | 9 | 0.4 | | 5.4 | | 0.3 | | 329 | 2 |
| Max | | | 30 | 5.4 | 6.2 | | 0 | | 76 | 156 | 81.8 | | 30.4 | | 0.5 | | 1008 | 50 |
| Avg | | | 10 | 5.4 | 5.0 | | 0 | | 12 | 33 | 6.2 | | 9.8 | | 0.4 | | 581 | 7 |
| Range | | | 28 | 0.0 | 2.3 | | 0 | | 76 | 147 | 81.4 | | 25.1 | | 0.3 | | 679 | 49 |

Description: Abandoned mine discharge; Sampled at breach in old Rail Road Grade located about 225 feet south of gas line crossing Seaton Creek

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63D-1 | 1/15/2001 | Estimated | 5 | 4.9 | 5.3 | 1053 | 7 | 1 | 7 | 21 | 6.3 | 0.9 | 10.9 | 10.6 | 0.3 | 0.3 | 690 | 3 |
| ST 63D-1 | 2/2/2001 | | | 4.9 | 5.3 | 1011 | 6 | | 5 | 46 | 8.5 | 1.3 | 9.7 | 9.6 | 0.5 | 0.3 | 766 | 7 |
| ST 63D-1 | 3/7/2002 | Estimated | 3 | 4.8 | 5.5 | 828 | 8 | | 6 | 2 | 0.9 | 0.9 | 6.7 | 6.6 | 0.2 | 0.2 | 471 | 2 |
| Min | | | 3 | 4.8 | 5.3 | 828 | 6 | 1 | 5 | 2 | 0.9 | 0.9 | 6.7 | 6.6 | 0.2 | 0.2 | 471 | 2 |
| Max | | | 5 | 4.9 | 5.5 | 1053 | 8 | 1 | 7 | 46 | 8.5 | 1.3 | 10.9 | 10.6 | 0.5 | 0.3 | 766 | 7 |
| Avg | | | 4 | 4.9 | 5.4 | 964 | 7 | 1 | 6 | 23 | 5.2 | 1.0 | 9.1 | 8.9 | 0.3 | 0.2 | 642 | 4 |
| Range | | | 2 | 0.1 | 0.3 | 225 | 2 | 0 | 2 | 44 | 7.5 | 0.5 | 4.2 | 4.1 | 0.3 | 0.1 | 295 | 5 |

Description: Abandoned mine discharge; Sampled at source approximately 150 feet east of "T-Bone" gob pile

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63D-3 | 1/15/2001 | | | 5.0 | 5.4 | 1158 | 6 | | 11 | 23 | 0.9 | 0.8 | 11.3 | 11.3 | 0.1 | 0.1 | 783 | 3 |
| ST 63D-3 | 2/2/2001 | | | 5.5 | 5.7 | 272 | 2 | 1 | 4 | 12 | 0.3 | 0.2 | 1.8 | 1.7 | 0.3 | 0.3 | 139 | 4 |
| ST 63D-3 | 3/7/2002 | | | 5.5 | 5.7 | 988 | | | 8 | 6 | 8.7 | 4.4 | 16.3 | 14.1 | 0.1 | 0.1 | 596 | 3 |
| Min | | | | 5.0 | 5.4 | 272 | 2 | 1 | 4 | 6 | 0.3 | 0.2 | 1.8 | 1.7 | 0.1 | 0.1 | 139 | 3 |
| Max | | | | 5.5 | 5.7 | 1158 | 6 | 1 | 11 | 23 | 8.7 | 4.4 | 16.3 | 14.1 | 0.3 | 0.3 | 783 | 4 |
| Avg | | | | 5.3 | 5.6 | 806 | 4 | 1 | 7 | 13 | 3.3 | 1.8 | 9.8 | 9.0 | 0.2 | 0.1 | 506 | 3 |
| Range | | | | 0.5 | 0.3 | 886 | 4 | 0 | 8 | 16 | 8.4 | 4.1 | 14.4 | 12.4 | 0.2 | 0.2 | 644 | 1 |

Description: Abandoned mine discharge; Sampled at source approximately 45 feet east of southern terminus of "T-Bone" gob pile

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63D-4 | 1/15/2001 | | | 6.0 | 6.2 | 1523 | 7 | | 71 | 113 | 66.5 | 62.0 | 32.7 | 29.9 | 0.1 | 0.1 | 1035 | 10 |
| ST 63D-4 | 2/2/2001 | | | 5.5 | 5.8 | 850 | 4 | 24 | 13 | 51 | 13.4 | 9.6 | 11.7 | 11.7 | 0.2 | 0.1 | 518 | 6 |
| Min | | | | 5.5 | 5.8 | 850 | 4 | 24 | 13 | 51 | 13.4 | 9.6 | 11.7 | 11.7 | 0.1 | 0.1 | 518 | 6 |
| Max | | | | 6.0 | 6.2 | 1523 | 7 | 24 | 71 | 113 | 66.5 | 62.0 | 32.7 | 29.9 | 0.2 | 0.1 | 1035 | 10 |
| Avg | | | | 5.8 | 6.0 | 1187 | 6 | 24 | 42 | 82 | 39.9 | 35.8 | 22.2 | 20.8 | 0.1 | 0.1 | 776 | 8 |
| Range | | | | 0.5 | 0.4 | 673 | 3 | 0 | 57 | 62 | 53.2 | 52.5 | 21.0 | 18.3 | 0.1 | 0.1 | 518 | 4 |

Description: Abandoned mine discharge; Sampled along eastern toe of "T-Bone" gob pile

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63E | 10/12/1994 | | | | 6.1 | | | | 124 | 132 | 101.0 | | 42.6 | | 0.3 | | 853 | 3 |
| ST 63E | 6/7/1995 | | | | 5.9 | | | | 84 | 154 | 78.1 | | 30.7 | | 0.3 | | 939 | 18 |
| ST 63E | 6/28/1995 | | 413 | | 6.0 | | | | 32 | 134 | 62.9 | | 33.1 | | 0.3 | | 985 | 48 |
| ST 63E | 8/16/1995 | | 108 | | 5.7 | | | | 22 | 194 | 62.9 | | 41.0 | | 0.3 | | 1094 | 64 |
| ST 63E | 9/12/1995 | | 40 | | 6.0 | | | | 26 | 152 | 51.1 | | 40.7 | | 0.3 | | 1177 | 26 |
| ST 63E | 10/11/1995 | | 40 | | 3.4 | | | | 0 | 128 | 8.2 | | 34.3 | | 0.9 | | 901 | 8 |
| ST 63E | 11/15/1995 | | 5 | | 4.0 | | | | 2 | 62 | 6.6 | | 24.2 | | 1.0 | | 698 | 3 |
| ST 63E | 12/27/1995 | | 78 | | 6.1 | | | | 30 | 142 | 30.0 | | 36.8 | | 0.3 | | 1071 | 3 |
| ST 63E | 2/22/1996 | | 331 | | 5.8 | | | | 24 | 148 | 70.2 | | 41.4 | | 0.3 | | 1056 | 23 |
| ST 63E | 3/13/1996 | | 524 | | 5.8 | | | | 26 | 188 | 65.6 | | 35.3 | | 0.3 | | 1152 | 48 |
| ST 63E | 4/30/1996 | | 466 | | 4.3 | | | | 5 | 17 | 5.9 | | 5.6 | | 0.3 | | 319 | 11 |
| ST 63E | 5/9/1996 | | 485 | | 6.1 | | | | 32 | 152 | 65.1 | | 34.6 | | 0.3 | | 1156 | 31 |
| ST 63E | 6/18/1996 | | 379 | | 5.8 | | | | 26 | 176 | 65.4 | | 35.5 | | 0.3 | | 1171 | 46 |
| ST 63E | 7/9/1996 | | 302 | | 5.9 | | | | 24 | 158 | 62.5 | | 36.1 | | 0.3 | | 1168 | 36 |
| ST 63E | 8/15/1996 | | 139 | | 5.8 | | | | 20 | 190 | 59.3 | | 38.9 | | 0.3 | | 986 | 25 |
| ST 63E | 9/10/1996 | | 106 | | 5.7 | | | | 22 | 192 | 57.6 | | 41.1 | | 0.3 | | 1117 | 30 |
| ST 63E | 10/15/1996 | | 158 | | 5.9 | | | | 22 | 172 | 58.7 | | 39.6 | | 0.3 | | 1073 | 42 |
| ST 63E | 11/19/1996 | | 395 | | 5.8 | | | | 26 | 184 | 63.2 | | 37.2 | | 0.3 | | 999 | 62 |
| ST 63E | 1/23/1997 | | 63 | | 5.9 | | | | 34 | 176 | 62.9 | | 34.1 | | 0.3 | | 1043 | 8 |
| ST 63E | 2/27/1997 | | 95 | | 5.6 | | | | 32 | 140 | 59.9 | | 32.2 | | 0.3 | | 986 | 56 |
| ST 63E | 3/19/1997 | | 51 | | 6.1 | | | | 30 | 110 | 48.6 | | 23.9 | | 0.3 | | 849 | 16 |
| ST 63E | 5/20/1997 | | 302 | | 6.0 | | | | 30 | 166 | 62.6 | | 33.3 | | 0.3 | | 1014 | 44 |
| ST 63E | 8/6/1997 | | 122 | | 5.9 | | | | 26 | 168 | 62.4 | | 38.0 | | 0.3 | | 1033 | 24 |
| ST 63E | 10/9/1997 | | 106 | | 6.0 | | | | 24 | 156 | 38.5 | | 37.6 | | 0.3 | | 1022 | 6 |
| ST 63E | 1/7/1998 | | 248 | | 5.7 | | | | 26 | 124 | 61.1 | | 39.3 | | 0.3 | | 1013 | 26 |
| ST 63E | 5/14/1998 | Measured | 544 | | 6.0 | | | | 32 | 136 | 56.5 | | 30.6 | | 0.3 | | 875 | 50 |
| ST 63E | 12/7/1999 | | | | 3.8 | | | | 0 | 74 | 2.1 | | 23.6 | | 0.3 | | 848 | 2 |
| ST 63E | 3/30/2000 | Measured | 178 | | 6.0 | | | | 118 | 96 | 80.5 | | 32.3 | | 0.3 | | 1017 | 20 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63E | 1/15/2001 | Weir | 83 | 6.3 | | | 5 | 64 | | | | | | | | | | |
| ST 63E | 1/18/2001 | Measured | 66 | | 6.4 | | | | 44 | 114 | 40.3 | | 36.5 | | 0.3 | | 922 | 4 |
| ST 63E | 2/2/2001 | Weir | 76 | | | | | | | | | | | | | | | |
| ST 63E | 5/8/2001 | Measured | 300 | | 6.1 | | | | 108 | 80 | 77.3 | | 30.4 | | 0.3 | | 931 | 6 |
| ST 63E | 3/7/2002 | Weir | 106 | 6.3 | 6.0 | 1753 | 12 | | 9 | 121 | 44.2 | 40.2 | 37.6 | 36.5 | 0.2 | 0.1 | 1124 | 17 |
| ST 63E | 10/8/2002 | | | | 5.9 | | | | 90 | 272 | 116.0 | | 33.3 | | 0.3 | | 1339 | 6 |
| Min | | | 5 | 6.3 | 3.4 | 1753 | 5 | 64 | 0 | 17 | 2.1 | 40.2 | 5.6 | 36.5 | 0.2 | 0.1 | 319 | 2 |
| Max | | | 544 | 6.3 | 6.4 | 1753 | 12 | 64 | 124 | 272 | 116.0 | 40.2 | 42.6 | 36.5 | 1.0 | 0.1 | 1339 | 64 |
| Avg | | | 210 | 6.3 | 5.7 | 1753 | 9 | 64 | 36 | 144 | 55.8 | 40.2 | 34.1 | 36.5 | 0.3 | 0.1 | 998 | 25 |
| Range | | | 539 | 0.0 | 3.0 | 0 | 7 | 0 | 124 | 255 | 113.9 | 0.0 | 37.0 | 0.0 | 0.8 | 0.0 | 1020 | 63 |

Description: Abandoned mine discharge; Largest of the discharges; Flows were measured at 90 degree V-Notch weir at the abandoned railroad grade; Currently collected in anoxic collection system 1 and conveyed into ALD1

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63E-1 | 1/15/2001 | Weir | 83 | 6.0 | 6.2 | 1801 | 10 | 148 | 120 | 122 | 81.8 | 76.3 | 36.3 | 35.9 | 0.1 | 0.1 | 1185 | 6 |
| ST 63E-1 | 2/2/2001 | Weir | 76 | 5.8 | 6.4 | 1723 | 10 | 104 | 100 | 166 | 77.3 | 74.3 | 34.2 | 33.5 | 0.2 | 0.1 | 1054 | 8 |
| ST 63E-1 | 3/7/2002 | | | 6.0 | 6.3 | 1853 | 10 | | 70 | 122 | 99.3 | 99.1 | 37.3 | 36.3 | 0.1 | 0.1 | 1325 | 7 |
| ST 63E-1 | 5/7/2002 | | | | 5.9 | 2049 | | | 50 | 361 | 169.9 | 166.4 | 34.1 | 34.0 | 0.9 | 0.7 | 1274 | 20 |
| Min | | | 76 | 5.8 | 5.9 | 1723 | 10 | 104 | 50 | 122 | 77.3 | 74.3 | 34.1 | 33.5 | 0.1 | 0.1 | 1054 | 6 |
| Max | | | 83 | 6.0 | 6.4 | 2049 | 10 | 148 | 120 | 361 | 169.9 | 166.4 | 37.3 | 36.3 | 0.9 | 0.7 | 1325 | 20 |
| Avg | | | 80 | 5.9 | 6.2 | 1857 | 10 | 126 | 85 | 193 | 107.1 | 104.0 | 35.5 | 34.9 | 0.3 | 0.3 | 1210 | 10 |
| Range | | | 7 | 0.2 | 0.5 | 326 | 0 | 44 | 70 | 239 | 92.7 | 92.2 | 3.2 | 2.8 | 0.8 | 0.7 | 272 | 14 |

Description: Abandoned mine discharge ST63E at source; Largest of the discharges; Flows were measured at 90 degree V-Notch weir at the abandoned railroad grade; Currently collected in anoxic collection system 1 and conveyed into ALD1

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63E-2 | 1/15/2001 | Estimated | 2 | 6.2 | | | 10 | | | | | | | | | | | |
| ST 63E-2 | 2/2/2001 | | | 4.9 | 5.8 | 1112 | 10 | | 17 | 79 | 18.3 | | 16.8 | | 0.1 | | 718 | 1 |
| ST 63E-2 | 3/7/2002 | | | 4.5 | 3.8 | 1081 | 10 | | 0 | 64 | 5.1 | 2.7 | 18.4 | 18.0 | 0.1 | 0.1 | 661 | 3 |
| Min | | | 2 | 4.5 | 3.8 | 1081 | 10 | | 0 | 64 | 5.1 | 2.7 | 16.8 | 18.0 | 0.1 | 0.1 | 661 | 1 |
| Max | | | 2 | 6.2 | 5.8 | 1112 | 10 | | 17 | 79 | 18.3 | 2.7 | 18.4 | 18.0 | 0.1 | 0.1 | 718 | 3 |
| Avg | | | 2 | 5.2 | 4.8 | 1097 | 10 | | 8 | 71 | 11.7 | 2.7 | 17.6 | 18.0 | 0.1 | 0.1 | 690 | 2 |
| Range | | | 0 | 1.7 | 2.0 | 31 | 0 | | 17 | 15 | 13.2 | 0.0 | 1.7 | 0.0 | 0.1 | 0.0 | 56 | 2 |

Description: Abandoned mine discharge at source; Located ~125 feet East of 63-1 and contributed flow measured at the ST63E weir; Currently collected and conveyed into ALD1 via Anoxic Collection System 1

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63F | 1/15/2001 | pool | | 6.0 | | | 4 | | | | | | | | | | | |
| ST 63F | 2/2/2001 | | | 6.2 | 6.5 | 1656 | 4 | 121 | 111 | 0 | 58.0 | 49.0 | 3.3 | 3.0 | 0.2 | 0.1 | 888 | 8 |
| Min | | | | 6.0 | 6.5 | 1656 | 4 | 121 | 111 | 0 | 58.0 | 49.0 | 3.3 | 3.0 | 0.2 | 0.1 | 888 | 8 |
| Max | | | | 6.2 | 6.5 | 1656 | 4 | 121 | 111 | 0 | 58.0 | 49.0 | 3.3 | 3.0 | 0.2 | 0.1 | 888 | 8 |
| Avg | | | | 6.1 | 6.5 | 1656 | 4 | 121 | 111 | 0 | 58.0 | 49.0 | 3.3 | 3.0 | 0.2 | 0.1 | 888 | 8 |
| Range | | | | 0.2 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 |

Description: Abandoned mine discharge; Located just above old foundations ~120 feet East of Erico Road; Pooled with no measureable flow

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ST 63G | 1/15/2001 | Estimated | 1 | 4.6 | 4.6 | 595 | 2 | | 1 | 29 | 0.1 | 0.0 | 3.3 | 3.2 | 3.1 | 3.1 | 333 | 2 |
| ST 63G | 2/2/2001 | Estimated | 5 | 4.4 | 4.1 | 530 | | | 0 | 36 | 0.2 | 0.1 | 3.6 | 3.5 | 3.0 | 3.0 | 244 | 4 |
| Min | | | 1 | 4.4 | 4.1 | 530 | 2 | | 0 | 29 | 0.1 | 0.0 | 3.3 | 3.2 | 3.0 | 3.0 | 244 | 2 |
| Max | | | 5 | 4.6 | 4.6 | 595 | 2 | | 1 | 36 | 0.2 | 0.1 | 3.6 | 3.5 | 3.1 | 3.1 | 333 | 4 |
| Avg | | | 3 | 4.5 | 4.4 | 563 | 2 | | 0 | 33 | 0.1 | 0.1 | 3.4 | 3.4 | 3.0 | 3.0 | 289 | 3 |
| Range | | | 4 | 0.2 | 0.5 | 65 | 0 | | 1 | 6 | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | 0.1 | 89 | 2 |

Description: Abandoned mine discharge in swale with little flow

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| OH-3 | 2/2/2001 | | | 7.1 | 7.0 | 347 | 0 | 43 | 45 | 0 | 9.3 | 6.9 | 2.8 | 2.7 | 0.1 | 0.0 | 129 | 20 |
| OH-3 | 3/7/2002 | | | 7.2 | 7.6 | 392 | 9 | | 70 | 0 | 3.0 | 0.9 | 1.1 | 1.0 | 0.2 | 0.1 | 131 | 1 |
| OH-3 | 5/7/2002 | | | 6.9 | 6.3 | 631 | 12 | | 31 | 0 | 36.2 | 10.1 | 4.7 | 4.5 | 0.2 | 0.2 | 289 | 46 |
| Min | | | | 6.9 | 6.3 | 347 | 0 | 43 | 31 | 0 | 3.0 | 0.9 | 1.1 | 1.0 | 0.1 | 0.0 | 129 | 1 |
| Max | | | | 7.2 | 7.6 | 631 | 12 | 43 | 70 | 0 | 36.2 | 10.1 | 4.7 | 4.5 | 0.2 | 0.2 | 289 | 46 |
| Avg | | | | 7.1 | 7.0 | 457 | 7 | 43 | 48 | 0 | 16.1 | 6.0 | 2.9 | 2.7 | 0.2 | 0.1 | 183 | 22 |
| Range | | | | 0.3 | 1.2 | 284 | 12 | 0 | 39 | 0 | 33.2 | 9.2 | 3.6 | 3.5 | 0.1 | 0.1 | 160 | 45 |

Description: Monitoring Well; Approximate 4 foot tall metal casing; Well installed during Operation Scarlift

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| MW C-8 | 2/2/2001 | | | 5.9 | 6.5 | 174 | | 4 | 9 | 0 | 0.3 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 | 105 | 3 |
| MW C-8 | 3/7/2002 | | | 6.0 | 6.6 | 164 | 10 | | 8 | 4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.2 | 0.0 | 75 | 4 |
| Min | | | | 5.9 | 6.5 | 164 | 10 | 4 | 8 | 0 | 0.3 | 0.2 | 0.1 | 0.0 | 0.1 | 0.0 | 75 | 3 |
| Max | | | | 6.0 | 6.6 | 174 | 10 | 4 | 9 | 4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 | 105 | 4 |
| Avg | | | | 6.0 | 6.5 | 169 | 10 | 4 | 9 | 2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 | 90 | 4 |
| Range | | | | 0.1 | 0.1 | 10 | 0 | 0 | 1 | 4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 30 | 1 |

Description: Monitoring Well; Approximately 3.6 foot tall casing; Possible Operation Scarlift well; Located near Sportsmens Club

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-1P | 3/7/2002 | | | 6.4 | 7.0 | 1395 | 7 | | 100 | 0 | 7.1 | 0.1 | 19.8 | 18.4 | 0.4 | 0.1 | 923 | 11 |
| 61-1P | 5/7/2002 | | | 5.9 | 6.0 | | | | 45 | 194 | 110.2 | 97.8 | 35.0 | 34.1 | 1.7 | 0.2 | 1086 | 49 |
| Min | | | | 5.9 | 6.0 | 1395 | 7 | | 45 | 0 | 7.1 | 0.1 | 19.8 | 18.4 | 0.4 | 0.1 | 923 | 11 |
| Max | | | | 6.4 | 7.0 | 1395 | 7 | | 100 | 194 | 110.2 | 97.8 | 35.0 | 34.1 | 1.7 | 0.2 | 1086 | 49 |
| Avg | | | | 6.2 | 6.5 | 1395 | 7 | | 72 | 97 | 58.7 | 49.0 | 27.4 | 26.3 | 1.1 | 0.1 | 1004 | 30 |
| Range | | | | 0.5 | 1.0 | 0 | 0 | | 56 | 194 | 103.1 | 97.7 | 15.2 | 15.7 | 1.3 | 0.1 | 163 | 38 |

Description: Piezometer; Installed on 2/11/02 by Mckay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-2P | 3/7/2002 | | | 6.8 | 7.2 | 960 | 7 | | 99 | 0 | 7.7 | 0.2 | 16.9 | 8.8 | 0.8 | 0.0 | 488 | 56 |
| 61-2P | 5/7/2002 | | | 5.9 | 6.0 | 1845 | 11 | | 52 | 200 | 99.5 | 95.5 | 32.9 | 32.2 | 1.4 | 0.2 | 1122 | 62 |
| Min | | | | 5.9 | 6.0 | 960 | 7 | | 52 | 0 | 7.7 | 0.2 | 16.9 | 8.8 | 0.8 | 0.0 | 488 | 56 |
| Max | | | | 6.8 | 7.2 | 1845 | 11 | | 99 | 200 | 99.5 | 95.5 | 32.9 | 32.2 | 1.4 | 0.2 | 1122 | 62 |
| Avg | | | | 6.4 | 6.6 | 1403 | 9 | | 76 | 100 | 53.6 | 47.9 | 24.9 | 20.5 | 1.1 | 0.1 | 805 | 59 |
| Range | | | | 0.9 | 1.3 | 885 | 4 | | 47 | 200 | 91.7 | 95.3 | 16.0 | 23.4 | 0.6 | 0.2 | 634 | 6 |

Description: Piezometer; Installed on 2/11/02 by Mckay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-3P | 3/7/2002 | | | 5.7 | 6.1 | 1970 | 7 | | 35 | 93 | 80.0 | 61.7 | 36.0 | 33.5 | 0.9 | 0.1 | 1392 | 116 |
| 61-3P | 5/7/2002 | | | 5.9 | 5.8 | 2061 | 10 | | 37 | 286 | 129.5 | 122.9 | 36.2 | 35.0 | 0.7 | 0.2 | 1132 | 52 |
| Min | | | | 5.7 | 5.8 | 1970 | 7 | | 35 | 93 | 80.0 | 61.7 | 36.0 | 33.5 | 0.7 | 0.1 | 1132 | 52 |
| Max | | | | 5.9 | 6.1 | 2061 | 10 | | 37 | 286 | 129.5 | 122.9 | 36.2 | 35.0 | 0.9 | 0.2 | 1392 | 116 |
| Avg | | | | 5.8 | 6.0 | 2016 | 9 | | 36 | 190 | 104.7 | 92.3 | 36.1 | 34.3 | 0.8 | 0.2 | 1262 | 84 |
| Range | | | | 0.2 | 0.3 | 91 | 3 | | 2 | 193 | 49.6 | 61.3 | 0.2 | 1.4 | 0.2 | 0.1 | 261 | 64 |

Description: Piezometer; Installed on 2/11/02 by McKay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-4P | 3/7/2002 | | | 6.0 | 6.3 | 1598 | | | 62 | 53 | 77.7 | 64.3 | 30.1 | 28.6 | 2.3 | 0.2 | 1117 | 390 |
| 61-4P | 5/7/2002 | | | 6.0 | 5.8 | 1875 | 12 | | 37 | 245 | 127.1 | 118.8 | 30.7 | 29.9 | 1.8 | 0.1 | 1101 | 43 |
| Min | | | | 6.0 | 5.8 | 1598 | 12 | | 37 | 53 | 77.7 | 64.3 | 30.1 | 28.6 | 1.8 | 0.1 | 1101 | 43 |
| Max | | | | 6.0 | 6.3 | 1875 | 12 | | 62 | 245 | 127.1 | 118.8 | 30.7 | 29.9 | 2.3 | 0.2 | 1117 | 390 |
| Avg | | | | 6.0 | 6.1 | 1737 | 12 | | 49 | 149 | 102.4 | 91.6 | 30.4 | 29.3 | 2.1 | 0.1 | 1109 | 217 |
| Range | | | | 0.0 | 0.5 | 277 | 0 | | 25 | 191 | 49.5 | 54.5 | 0.6 | 1.4 | 0.5 | 0.1 | 16 | 347 |

Description: Piezometer; Installed on 2/11/02 by Mckay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-5P | 3/7/2002 | | | 7.0 | 7.2 | 714 | 7 | | 139 | 0 | 32.6 | 5.6 | 9.1 | 3.7 | 1.2 | 0.1 | 316 | 178 |
| 61-5P | 5/7/2002 | | | 5.9 | 6.1 | 1393 | 11 | | 59 | 87 | 52.6 | 51.0 | 22.2 | 21.1 | 0.6 | 0.1 | 630 | 24 |
| Min | | | | 5.9 | 6.1 | 714 | 7 | | 59 | 0 | 32.6 | 5.6 | 9.1 | 3.7 | 0.6 | 0.1 | 316 | 24 |
| Max | | | | 7.0 | 7.2 | 1393 | 11 | | 139 | 87 | 52.6 | 51.0 | 22.2 | 21.1 | 1.2 | 0.1 | 630 | 178 |
| Avg | | | | 6.5 | 6.7 | 1054 | 9 | | 99 | 44 | 42.6 | 28.3 | 15.6 | 12.4 | 0.9 | 0.1 | 473 | 101 |
| Range | | | | 1.1 | 1.1 | 679 | 4 | | 79 | 87 | 20.0 | 45.4 | 13.1 | 17.4 | 0.6 | 0.1 | 314 | 154 |

Description: Piezometer; Installed on 2/11/02 by Mckay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 61-6P | 3/7/2002 | | | 5.8 | 6.5 | 205 | 6 | | 16 | 0 | 2.2 | 0.1 | 0.4 | 0.3 | 1.8 | 0.0 | 83 | 24 |
| 61-6P | 5/7/2002 | | | 5.9 | 5.9 | 1973 | 10 | | 36 | 195 | 97.2 | 94.5 | 32.3 | 31.3 | 0.7 | 0.2 | 1129 | 28 |
| Min | | | | 5.8 | 5.9 | 205 | 6 | | 16 | 0 | 2.2 | 0.1 | 0.4 | 0.3 | 0.7 | 0.0 | 83 | 24 |
| Max | | | | 5.9 | 6.5 | 1973 | 10 | | 36 | 195 | 97.2 | 94.5 | 32.3 | 31.3 | 1.8 | 0.2 | 1129 | 28 |
| Avg | | | | 5.9 | 6.2 | 1089 | 8 | | 26 | 98 | 49.7 | 47.3 | 16.4 | 15.8 | 1.2 | 0.1 | 606 | 26 |
| Range | | | | 0.1 | 0.6 | 1768 | 4 | | 20 | 195 | 94.9 | 94.4 | 31.9 | 31.1 | 1.2 | 0.1 | 1046 | 4 |

Description: Piezometer; Installed on 2/11/02 by Mckay and Gould

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ALD1 | 7/23/2003 | Measured | 210 | 6.5 | 6.4 | 1735 | 11 | 224 | 146 | -34 | 77.9 | 77.7 | 30.2 | 29.7 | 0.1 | 0.1 | 1060 | 20 |
| ALD1 | 7/30/2003 | | | | 6.5 | | | | 253 | 0 | 78.2 | | 27.5 | | 0.3 | | 801 | 22 |
| ALD1 | 9/16/2003 | | | | 6.5 | | | | 241 | 0 | 67.2 | | 24.9 | | 0.3 | | 893 | 12 |
| ALD1 | 10/30/2003 | | | | 6.5 | | | | 247 | 0 | 73.9 | | 29.1 | | 0.3 | | 790 | 10 |
| ALD1 | 10/30/2003 | Measured | 300 | 6.5 | 6.4 | 1691 | 10 | 258 | 167 | -7 | 71.5 | 70.8 | 33.4 | 32.0 | 0.2 | 0.0 | 1379 | 11 |
| ALD1 | 3/23/2004 | | | | 6.6 | | | 221 | 222 | -79 | 60.9 | | 26.7 | | 0.3 | | 764 | 76 |
| ALD1 | 3/25/2004 | Measured | 540 | 6.6 | 6.4 | 1660 | | 221 | 163 | -38 | 77.3 | 75.5 | 26.1 | 23.2 | 0.2 | 0.0 | 744 | 2 |
| ALD1 | 6/8/2004 | Measured | 470 | 6.5 | 6.3 | 1580 | | 260 | 115 | -43 | 63.4 | 57.0 | 20.7 | 20.2 | 0.1 | 0.0 | 983 | 20 |
| ALD1 | 6/16/2004 | | | | 6.5 | | | | 223 | -41 | 60.6 | | 25.7 | | 0.3 | | 806 | 12 |
| ALD1 | 7/20/2004 | Measured | 310 | 6.5 | 6.1 | 1700 | 10 | 201 | 136 | -19 | 72.9 | 73.9 | 26.5 | 26.2 | 0.0 | 0.0 | 1088 | 35 |
| ALD1 | 8/20/2004 | | | | 6.4 | | | | 208 | 49 | 73.0 | | 31.4 | | 0.3 | | 833 | 40 |
| ALD1 | 9/1/2004 | Measured | 350 | 6.5 | 6.3 | 1707 | 10 | 239 | 128 | 10 | 75.7 | 73.3 | 29.0 | 28.7 | 0.1 | 0.1 | 956 | 53 |
| ALD1 | 11/5/2004 | | | | 6.4 | | | | 216 | 42 | 61.6 | | 25.3 | | 0.3 | | 769 | 34 |
| Min | | | 210 | 6.5 | 6.1 | 1580 | 10 | 201 | 115 | -79 | 60.6 | 57.0 | 20.7 | 20.2 | 0.0 | 0.0 | 744 | 2 |
| Max | | | 540 | 6.6 | 6.6 | 1735 | 11 | 260 | 253 | 49 | 78.2 | 77.7 | 33.4 | 32.0 | 0.3 | 0.1 | 1379 | 76 |
| Avg | | | 363 | 6.5 | 6.4 | 1679 | 10 | 232 | 190 | -12 | 70.3 | 71.4 | 27.4 | 26.6 | 0.2 | 0.0 | 913 | 27 |
| Range | | | 330 | 0.1 | 0.5 | 155 | 1 | 59 | 138 | 128 | 17.6 | 20.8 | 12.7 | 11.8 | 0.2 | 0.1 | 635 | 74 |

Description: Anoxic Limestone Drain 1; Sampled at effluent pipe; Receives discharge ST 63E from the anoxic collection system 1

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SP1 | 7/23/2003 | Assumed | 210 | 6.7 | 6.4 | 1543 | 15 | 134 | 101 | -47 | 35.3 | 29.1 | 27.8 | 27.2 | 0.1 | 0.0 | 1225 | 27 |
| SP1 | 10/30/2003 | Assumed | 300 | 6.8 | 6.5 | 1640 | 10 | 192 | 119 | -34 | 46.9 | 39.5 | 33.4 | 21.3 | 0.2 | 0.0 | 1154 | 22 |
| SP1 | 3/25/2004 | Assumed | 540 | 6.7 | 6.6 | 1573 | | 200 | 119 | -31 | 66.9 | 65.0 | 23.0 | 22.9 | 0.1 | 0.1 | 721 | 18 |
| SP1 | 6/8/2004 | Assumed | 470 | 6.7 | 6.3 | 1564 | | 195 | 110 | -56 | 54.3 | 48.6 | 20.8 | 19.9 | 0.1 | 0.0 | 1032 | 10 |
| SP1 | 7/20/2004 | Assumed | 310 | 6.5 | 6.1 | 1663 | 14 | 215 | 106 | -33 | 63.9 | 50.3 | 25.7 | 22.1 | 0.0 | 0.0 | 1130 | 38 |
| SP1 | 9/1/2004 | Assumed | 350 | 6.6 | 6.4 | 1622 | 19 | 184 | 110 | -15 | 50.6 | 44.8 | 28.1 | 27.8 | 0.0 | 0.0 | 998 | 31 |
| Min | | | 210 | 6.5 | 6.1 | 1543 | 10 | 134 | 101 | -56 | 35.3 | 29.1 | 20.8 | 19.9 | 0.0 | 0.0 | 721 | 10 |
| Max | | | 540 | 6.8 | 6.6 | 1663 | 19 | 215 | 119 | -15 | 66.9 | 65.0 | 33.4 | 27.8 | 0.2 | 0.1 | 1225 | 38 |
| Avg | | | 363 | 6.7 | 6.4 | 1601 | 15 | 187 | 111 | -36 | 53.0 | 46.2 | 26.4 | 23.5 | 0.1 | 0.0 | 1044 | 24 |
| Range | | | 330 | 0.3 | 0.4 | 120 | 9 | 81 | 18 | 41 | 31.6 | 35.9 | 12.6 | 8.0 | 0.2 | 0.0 | 504 | 28 |

Description: Settling Pond 1; Sampled at spillway; Receives flow from ALD1 and discharges into Settling Pond 2 (SP2)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SP2 | 7/23/2003 | Assumed | 210 | 6.6 | 6.7 | 1527 | 19 | 82 | 91 | -42 | 10.6 | 3.3 | 25.2 | 24.4 | 0.1 | 0.1 | 1201 | 12 |
| SP2 | 10/30/2003 | Assumed | 300 | 7.0 | 6.6 | 1651 | 11 | 151 | 106 | -40 | 36.5 | 19.1 | 32.2 | 21.4 | 0.1 | 0.0 | 1246 | 53 |
| SP2 | 3/25/2004 | Assumed | 540 | 7.1 | 6.6 | 1561 | | 150 | 108 | -58 | 55.4 | 36.9 | 22.6 | 22.2 | 0.1 | 0.0 | 767 | 11 |
| SP2 | 6/8/2004 | Assumed | 470 | 6.8 | 6.5 | 1581 | 14 | 180 | 110 | -63 | 45.4 | 34.3 | 20.5 | 19.5 | 0.1 | 0.1 | 959 | 30 |
| SP2 | 7/20/2004 | Assumed | 310 | 6.7 | 6.3 | 1640 | 18 | 165 | 100 | -39 | 42.9 | 27.8 | 22.2 | 21.2 | 0.1 | 0.0 | 970 | 20 |
| SP2 | 9/1/2004 | Assumed | 350 | 6.7 | 6.6 | 1593 | 20 | 153 | 107 | -28 | 38.1 | 24.1 | 27.0 | 27.0 | 0.0 | 0.0 | 1630 | 31 |
| Min | | | 210 | 6.6 | 6.3 | 1527 | 11 | 82 | 91 | -63 | 10.6 | 3.3 | 20.5 | 19.5 | 0.0 | 0.0 | 767 | 11 |
| Max | | | 540 | 7.1 | 6.7 | 1651 | 20 | 180 | 110 | -28 | 55.4 | 36.9 | 32.2 | 27.0 | 0.1 | 0.1 | 1630 | 53 |
| Avg | | | 363 | 6.8 | 6.6 | 1592 | 16 | 147 | 104 | -45 | 38.1 | 24.3 | 25.0 | 22.6 | 0.1 | 0.0 | 1129 | 26 |
| Range | | | 330 | 0.5 | 0.4 | 124 | 9 | 98 | 20 | 36 | 44.8 | 33.7 | 11.7 | 7.4 | 0.1 | 0.0 | 863 | 42 |

Description: Settling Pond 2; Sampled at spillway; Receives flow from Settling Pond 1 (SP1) and discharges into Wetland 1 (WL1)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| WL1 | 7/23/2003 | Assumed | 210 | 6.8 | 7.0 | 1501 | 22 | 76 | 89 | -38 | 5.6 | 0.2 | 24.3 | 23.4 | 0.2 | 0.1 | 919 | 9 |
| WL1 | 10/30/2003 | Assumed | 300 | 7.2 | 6.7 | 1680 | 12 | 132 | 101 | -43 | 28.1 | 15.7 | 32.2 | 31.7 | 0.1 | 0.0 | 1188 | 53 |
| WL1 | 3/25/2004 | Assumed | 540 | 7.0 | 6.7 | 1571 | | 125 | 105 | -51 | 50.4 | 32.0 | 22.0 | 21.7 | 0.1 | 0.0 | 759 | 23 |
| WL1 | 6/8/2004 | Assumed | 470 | 7.0 | | | 18 | 176 | | | 39.8 | 27.6 | 19.6 | 19.3 | 0.0 | 0.0 | | |
| WL1 | 7/20/2004 | Assumed | 310 | 6.8 | 6.6 | 1635 | 23 | 157 | 103 | -48 | 29.0 | 16.8 | 21.6 | 20.8 | 0.0 | 0.0 | 1079 | 31 |
| WL1 | 8/20/2004 | | | | 6.6 | | | | 89 | 56 | 10.6 | | 23.6 | | 0.3 | | 670 | 14 |
| WL1 | 9/1/2004 | Assumed | 350 | 6.8 | 6.9 | 1614 | 22 | 118 | 98 | -21 | 15.3 | 7.8 | 26.0 | 25.8 | 0.0 | 0.0 | 1661 | 3 |
| WL1 | 11/5/2004 | | | | 6.5 | | | | 106 | 28 | 23.0 | | 23.4 | | 0.3 | | 729 | 40 |
| Min | | | 210 | 6.8 | 6.5 | 1501 | 12 | 76 | 89 | -51 | 5.6 | 0.2 | 19.6 | 19.3 | 0.0 | 0.0 | 670 | 3 |
| Max | | | 540 | 7.2 | 7.0 | 1680 | 23 | 176 | 106 | 56 | 50.4 | 32.0 | 32.2 | 31.7 | 0.3 | 0.1 | 1661 | 53 |
| Avg | | | 363 | 6.9 | 6.7 | 1600 | 19 | 131 | 99 | -17 | 25.2 | 16.7 | 24.1 | 23.8 | 0.1 | 0.0 | 1001 | 25 |
| Range | | | 330 | 0.4 | 0.5 | 179 | 11 | 100 | 17 | 107 | 44.8 | 31.8 | 12.6 | 12.4 | 0.2 | 0.1 | 991 | 50 |

Description: Wetland 1; Sampled at effluent spillway; Receives flow from Settling Pond 2 (SP2) and discharges to Settling Pond 3 (SP3)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SP3 | 7/23/2003 | Assumed | 210 | 7.0 | 7.0 | 1475 | 21 | 72 | 86 | -37 | 4.6 | 0.1 | 23.9 | 23.5 | 0.2 | 0.1 | 1275 | 6 |
| SP3 | 10/30/2003 | Assumed | 300 | 7.2 | 6.7 | 1622 | 12 | 122 | 102 | -33 | 20.1 | 10.9 | 33.4 | 32.0 | 0.1 | 0.0 | 1138 | 42 |
| SP3 | 3/25/2004 | Assumed | 540 | 7.0 | 6.8 | 1528 | | 125 | 93 | -60 | 39.1 | 23.3 | 21.3 | 21.1 | 0.2 | 0.0 | 660 | 31 |
| SP3 | 6/8/2004 | Assumed | 470 | 7.0 | 6.7 | 1550 | 20 | 131 | 107 | -46 | 27.5 | 15.3 | 20.0 | 18.8 | 0.1 | 0.0 | 1057 | 19 |
| SP3 | 7/20/2004 | Assumed | 310 | 6.9 | 6.6 | 1647 | 23 | 140 | 98 | -43 | 23.6 | 10.5 | 21.3 | 20.3 | 0.0 | 0.0 | 1079 | 25 |
| SP3 | 9/1/2004 | Assumed | 350 | 6.8 | 6.9 | 1664 | 23 | 116 | 104 | -3 | 11.9 | 4.2 | 25.5 | 25.2 | 0.1 | 0.0 | 1485 | 3 |
| Min | | | 210 | 6.8 | 6.6 | 1475 | 12 | 72 | 86 | -60 | 4.6 | 0.1 | 20.0 | 18.8 | 0.0 | 0.0 | 660 | 3 |
| Max | | | 540 | 7.2 | 7.0 | 1664 | 23 | 140 | 107 | -3 | 39.1 | 23.3 | 33.4 | 32.0 | 0.2 | 0.1 | 1485 | 42 |
| Avg | | | 363 | 7.0 | 6.8 | 1581 | 20 | 118 | 98 | -37 | 21.1 | 10.7 | 24.2 | 23.5 | 0.1 | 0.0 | 1115 | 21 |
| Range | | | 330 | 0.4 | 0.5 | 189 | 11 | 68 | 21 | 58 | 34.5 | 23.2 | 13.4 | 13.2 | 0.2 | 0.0 | 825 | 39 |

Description: Settling Pond 3; Sampled in effluent spillway; Receives flow from Wetland 1 (WL1) and discharges into Wetland 2 (WL2)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ALD2 | 7/23/2003 | Measured | 70 | 6.8 | 6.5 | 1710 | 11 | 241 | 197 | -68 | 70.3 | 67.6 | 19.8 | 19.7 | 0.1 | 0.1 | 1134 | 15 |
| ALD2 | 7/30/2003 | | | | 6.6 | | | | 266 | 0 | 65.1 | | 16.9 | | 0.3 | | 742 | 22 |
| ALD2 | 9/16/2003 | | | | 6.5 | | | | 260 | 0 | 66.0 | | 17.4 | | 0.3 | | 932 | 16 |
| ALD2 | 10/30/2003 | | | | 6.6 | | | | 261 | 0 | 69.5 | | 19.7 | | 0.3 | | 757 | 20 |
| ALD2 | 10/30/2003 | Measured | 80 | 6.7 | 6.5 | 1745 | 10 | 274 | 203 | -36 | 70.8 | 69.1 | 23.4 | 23.1 | 0.1 | 0.1 | 1204 | 8 |
| ALD2 | 3/23/2004 | | | | 6.6 | | | | 244 | -84 | 60.8 | | 18.9 | | 0.3 | | 747 | 24 |
| ALD2 | 3/25/2004 | Measured | 50 | 6.5 | 6.6 | 1608 | | 255 | 195 | -62 | 80.2 | 79.2 | 17.0 | 16.9 | 0.1 | 0.0 | 622 | 15 |
| ALD2 | 6/8/2004 | Measured | 60 | 6.5 | 6.4 | 1555 | 10 | 251 | 142 | -80 | 64.5 | 60.9 | 15.6 | 15.2 | 0.1 | 0.0 | 975 | 26 |
| ALD2 | 6/16/2004 | | | | 6.5 | | | | 254 | -92 | 59.0 | | 18.4 | | 0.3 | | 735 | 22 |
| ALD2 | 7/20/2004 | Measured | 60 | 6.5 | 6.3 | 1619 | 11 | 262 | 160 | -53 | 69.1 | 66.6 | 16.7 | 16.2 | 0.0 | 0.0 | 1037 | 16 |
| ALD2 | 8/20/2004 | | | | 6.5 | | | | 220 | 2 | 64.2 | | 21.4 | | 0.3 | | 795 | 46 |
| ALD2 | 9/1/2004 | Measured | 58 | 6.7 | 6.5 | 1685 | 11 | 252 | 146 | -22 | 73.5 | 65.3 | 18.5 | 18.5 | 0.1 | 0.0 | 1224 | 20 |
| ALD2 | 11/5/2004 | | | | 6.4 | | | | 227 | -35 | 55.4 | | 18.1 | | 0.3 | | 726 | 46 |
| Min | | | 50 | 6.5 | 6.3 | 1555 | 10 | 241 | 142 | -92 | 55.4 | 60.9 | 15.6 | 15.2 | 0.0 | 0.0 | 622 | 8 |
| Max | | | 80 | 6.8 | 6.6 | 1745 | 11 | 274 | 266 | 2 | 80.2 | 79.2 | 23.4 | 23.1 | 0.3 | 0.1 | 1224 | 46 |
| Avg | | | 63 | 6.6 | 6.5 | 1654 | 11 | 256 | 213 | -41 | 66.8 | 68.1 | 18.6 | 18.3 | 0.2 | 0.0 | 895 | 23 |
| Range | | | 30 | 0.3 | 0.3 | 190 | 1 | 33 | 124 | 94 | 24.8 | 18.2 | 7.8 | 7.9 | 0.2 | 0.1 | 602 | 38 |

Description: Anoxic Limestone Drain 2; Sampled at effluent pipe; Receives discharges ST63B, ST63C, and a portion of 63C? And discharges into Settling Pond 4 (SP4)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SP4 | 7/23/2003 | Assumed | 70 | 6.7 | 6.5 | 1564 | 18 | 148 | 114 | -66 | 33.5 | 31.5 | 16.8 | 16.6 | 0.2 | 0.1 | 1085 | 12 |
| SP4 | 10/30/2003 | Assumed | 80 | 6.8 | 6.5 | 1647 | 12 | 176 | 111 | -61 | 49.5 | 37.2 | 21.8 | 21.7 | 0.0 | 0.0 | 1229 | 72 |
| SP4 | 3/25/2004 | Assumed | 50 | 6.7 | 6.6 | 1474 | | 173 | 123 | -90 | 51.6 | 44.2 | 16.0 | 15.9 | 0.2 | 0.0 | 660 | 15 |
| SP4 | 6/8/2004 | Assumed | 60 | 6.7 | 6.6 | 1554 | 23 | 166 | 120 | -70 | 29.8 | 24.7 | 15.0 | 14.5 | 0.0 | 0.0 | 1048 | 31 |
| SP4 | 7/20/2004 | Assumed | 60 | 6.6 | 6.3 | 1580 | 22 | 167 | 113 | -52 | 34.9 | 27.3 | 16.0 | 15.4 | 0.0 | 0.0 | 995 | 15 |
| SP4 | 9/1/2004 | Assumed | 58 | 6.9 | 6.8 | 1615 | 23 | 143 | 104 | -46 | 28.4 | 18.9 | 17.2 | 16.8 | 0.0 | 0.0 | 1301 | 35 |
| Min | | | 50 | 6.6 | 6.3 | 1474 | 12 | 143 | 104 | -90 | 28.4 | 18.9 | 15.0 | 14.5 | 0.0 | 0.0 | 660 | 12 |
| Max | | | 80 | 6.9 | 6.8 | 1647 | 23 | 176 | 123 | -46 | 51.6 | 44.2 | 21.8 | 21.7 | 0.2 | 0.1 | 1301 | 72 |
| Avg | | | 63 | 6.7 | 6.6 | 1572 | 20 | 162 | 114 | -64 | 38.0 | 30.6 | 17.1 | 16.8 | 0.1 | 0.0 | 1053 | 30 |
| Range | | | 30 | 0.3 | 0.5 | 173 | 11 | 33 | 18 | 44 | 23.2 | 25.3 | 6.8 | 7.2 | 0.2 | 0.0 | 641 | 60 |

Description: Settling Pond 4; Sampled at effluent spillway; Receives flow from Anoxic Limestone Drain 2 (ALD2) and discharges into Wetland 2 (WL2)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SEEP | 7/23/2003 | Estimated | 25 | 5.7 | 6.1 | 1502 | 10 | 72 | 59 | 49 | 46.2 | 44.0 | 17.6 | 17.3 | 0.0 | 0.0 | 1143 | 10 |
| SEEP | 10/30/2003 | Estimated | 25 | 6.0 | 6.0 | 1547 | 11 | 84 | 58 | 75 | 50.9 | 50.5 | 20.2 | 20.2 | 0.0 | 0.0 | 1229 | 3 |
| SEEP | 3/25/2004 | Estimated | 25 | 5.8 | 5.8 | 1561 | | 77 | 61 | 50 | 64.0 | 61.8 | 17.0 | 16.5 | 0.2 | 0.1 | 820 | 7 |
| SEEP | 6/8/2004 | Estimated | 25 | 5.8 | 6.0 | 1510 | 9 | 77 | 45 | 49 | 52.3 | 49.6 | 14.9 | 14.3 | 0.1 | 0.0 | 1073 | 6 |
| SEEP | 7/20/2004 | Estimated | 25 | 5.7 | 5.9 | 1574 | 10 | 86 | 59 | 67 | 59.1 | 57.8 | 15.6 | 15.3 | 0.1 | 0.0 | 1139 | 13 |
| SEEP | 9/1/2004 | Estimated | 25 | 5.7 | 6.1 | 1603 | 10 | 88 | 65 | 104 | 56.8 | 54.5 | 17.2 | 16.9 | 0.0 | 0.0 | 767 | 11 |
| Min | | | 25 | 5.7 | 5.8 | 1502 | 9 | 72 | 45 | 49 | 46.2 | 44.0 | 14.9 | 14.3 | 0.0 | 0.0 | 767 | 3 |
| Max | | | 25 | 6.0 | 6.1 | 1603 | 11 | 88 | 65 | 104 | 64.0 | 61.8 | 20.2 | 20.2 | 0.2 | 0.1 | 1229 | 13 |
| Avg | | | 25 | 5.8 | 6.0 | 1550 | 10 | 81 | 58 | 66 | 54.9 | 53.0 | 17.1 | 16.7 | 0.1 | 0.0 | 1028 | 8 |
| Range | | | 0 | 0.3 | 0.3 | 101 | 2 | 16 | 20 | 55 | 17.8 | 17.8 | 5.3 | 5.8 | 0.2 | 0.1 | 462 | 10 |

Description: AMD Seep Area; Enters Wetland 2

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| WL2@PP2 | 7/23/2003 | Assumed | 270 | 6.8 | 6.7 | 1400 | 19 | 46 | 52 | -22 | 7.1 | 3.5 | 20.2 | 19.7 | 0.1 | 0.0 | 1002 | 5 |
| WL2@PP2 | 7/30/2003 | | | | 6.6 | | | | 61 | 0 | 9.2 | | 17.6 | | 0.3 | | 645 | 18 |
| WL2@PP2 | 9/16/2003 | | | | 6.8 | | | | 98 | 0 | 12.5 | | 22.8 | | 0.3 | | 930 | 18 |
| WL2@PP2 | 10/30/2003 | | | | 6.9 | | | | 100 | 0 | 18.5 | | 24.8 | | 0.3 | | 743 | 34 |
| WL2@PP2 | 10/30/2003 | Assumed | 400 | 7.1 | 6.6 | 1605 | 12 | 101 | 76 | -23 | 16.8 | 11.8 | 27.5 | 27.2 | 0.2 | 0.0 | 1004 | 24 |
| WL2@PP2 | 3/23/2004 | | | | 6.8 | | | | 102 | -27 | 27.2 | | 24.2 | | 0.3 | | 797 | 76 |
| WL2@PP2 | 3/25/2004 | Assumed | 600 | 7.2 | 6.7 | 1487 | | 100 | 76 | -44 | 23.3 | 15.9 | 19.3 | 19.2 | 0.2 | 0.1 | 721 | 23 |
| WL2@PP2 | 6/8/2004 | Assumed | 550 | 6.8 | 6.7 | 1553 | | 89 | 86 | -47 | 3.3 | 1.6 | 16.9 | 16.7 | 0.1 | 0.0 | 1114 | 3 |
| WL2@PP2 | 6/16/2004 | | | | 6.7 | | | | 86 | -12 | 3.3 | | 21.7 | | 0.3 | | 780 | 20 |
| WL2@PP2 | 7/20/2004 | Assumed | 400 | 6.8 | 6.6 | 1603 | 20 | 80 | 74 | -31 | 2.7 | 0.3 | 15.7 | 14.9 | 0.0 | 0.0 | 1189 | 7 |
| WL2@PP2 | 8/20/2004 | | | | 6.6 | | | | 64 | -4 | 0.2 | | 16.2 | | 0.3 | | 619 | 2 |
| WL2@PP2 | 9/1/2004 | Assumed | 430 | 6.8 | 6.7 | 1430 | 22 | 40 | 44 | -6 | 1.2 | 0.2 | 9.3 | 8.8 | 0.1 | 0.0 | 869 | 1 |
| WL2@PP2 | 11/5/2004 | | | | 6.3 | | | | 53 | -26 | 0.7 | | 7.8 | | 0.3 | | 775 | 4 |
| Min | | | 270 | 6.8 | 6.3 | 1400 | 12 | 40 | 44 | -47 | 0.2 | 0.2 | 7.8 | 8.8 | 0.0 | 0.0 | 619 | 1 |
| Max | | | 600 | 7.2 | 6.9 | 1605 | 22 | 101 | 102 | 0 | 27.2 | 15.9 | 27.5 | 27.2 | 0.3 | 0.1 | 1189 | 76 |
| Avg | | | 442 | 6.9 | 6.7 | 1513 | 18 | 76 | 75 | -19 | 9.7 | 5.5 | 18.8 | 17.7 | 0.2 | 0.0 | 860 | 18 |
| Range | | | 330 | 0.4 | 0.6 | 205 | 10 | 61 | 59 | 47 | 27.1 | 15.7 | 19.7 | 18.4 | 0.2 | 0.1 | 571 | 75 |

Description: Wetland 2; Sampled at Plunge Pond 2; Receives influent from Settling Pond 3 (SP3), Settling Pond 4 (SP4) and several seeps (SEEP) and discharges to the Horizontal Flow Limestone Bed (HFLB)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| HFLB | 7/23/2003 | Measured | 270 | 7.4 | 7.4 | 1456 | 21 | 100 | 114 | -106 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 969 | 2 |
| HFLB | 7/30/2003 | | | | 7.3 | | | | 115 | 0 | 0.2 | | 0.1 | | 0.3 | | 595 | 2 |
| HFLB | 9/16/2003 | | | | 7.1 | | | | 149 | 0 | 0.2 | | 0.2 | | 0.3 | | 919 | 4 |
| HFLB | 10/30/2003 | Measured | 400 | 7.2 | 7.0 | 1610 | 10 | 140 | 140 | -111 | 0.1 | 0.1 | 0.9 | 0.8 | 0.0 | 0.0 | 1113 | 1 |
| HFLB | 10/30/2003 | | | | 7.1 | | | | 149 | 0 | 0.2 | | 0.8 | | 0.3 | | 775 | 8 |
| HFLB | 3/23/2004 | | | | 7.0 | | | | 109 | -55 | 9.3 | | 16.2 | | 0.3 | | 855 | 26 |
| HFLB | 3/25/2004 | Measured | 600 | 7.2 | 7.0 | 1497 | | 109 | 94 | -73 | 8.1 | 5.5 | 13.1 | 13.1 | 0.2 | 0.0 | 721 | 8 |
| HFLB | 6/8/2004 | Measured | 550 | 7.2 | 7.0 | 1570 | 19 | 125 | 110 | -92 | 0.2 | 0.1 | 4.7 | 3.8 | 0.1 | 0.0 | 910 | 4 |
| HFLB | 6/16/2004 | | | | 6.9 | | | | 114 | -90 | 0.2 | | 4.2 | | 0.3 | | 746 | 14 |
| HFLB | 7/20/2004 | Measured | 400 | 7.2 | 6.9 | 1580 | 20 | 109 | 107 | -81 | 0.1 | 0.0 | 0.7 | 0.7 | 0.1 | 0.0 | 1054 | 1 |
| HFLB | 8/20/2004 | | | | 7.1 | | | | 93 | -64 | 0.2 | | 2.0 | | 0.3 | | 709 | 2 |
| HFLB | 9/1/2004 | Measured | 430 | 7.3 | 7.2 | 1433 | 20 | 83 | 75 | -49 | 0.1 | 0.1 | 0.5 | 0.5 | 0.0 | 0.0 | 660 | 4 |
| HFLB | 9/8/2004 | Measured | 700 | 7.2 | | | | | | | | | | | | | | |
| HFLB | 11/5/2004 | | | | 6.6 | | | | 81 | -54 | 0.2 | | 5.4 | | 0.3 | | 711 | 2 |
| Min | | | 270 | 7.2 | 6.6 | 1433 | 10 | 83 | 75 | -111 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 595 | 1 |
| Max | | | 700 | 7.4 | 7.4 | 1610 | 21 | 140 | 149 | 0 | 9.3 | 5.5 | 16.2 | 13.1 | 0.3 | 0.0 | 1113 | 26 |
| Avg | | | 479 | 7.2 | 7.0 | 1524 | 18 | 111 | 112 | -60 | 1.4 | 1.0 | 3.8 | 3.2 | 0.2 | 0.0 | 826 | 6 |
| Range | | | 430 | 0.2 | 0.8 | 177 | 11 | 57 | 74 | 111 | 9.3 | 5.5 | 16.1 | 13.0 | 0.2 | 0.0 | 517 | 25 |

Description: Horizontal Flow Limestone Bed; Sampled at effluent pipe; Receives flow from Wetland 2 via Plunge Pond 2; Discharges to Seaton Creek; One of two final effluent discharge points of the passive treatment complex

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| ALD3 | 6/8/2004 | Bucket | 15 | 6.5 | 6.3 | 1719 | 10 | 222 | 96 | -50 | 85.1 | 83.0 | 15.7 | 15.4 | 0.0 | 0.0 | 1114 | |
| ALD3 | 6/16/2004 | | | | 6.5 | | | | 197 | 37 | 77.7 | | 19.2 | | 0.3 | | 866 | 28 |
| ALD3 | 7/20/2004 | Bucket | 15 | 6.5 | 6.1 | 1760 | 12 | 224 | 110 | 16 | 86.3 | 80.5 | 15.9 | 15.4 | 0.2 | 0.0 | 1139 | 32 |
| ALD3 | 8/20/2004 | | | | 6.4 | | | | 176 | -5 | 69.1 | | 18.2 | | 0.3 | | 808 | 48 |
| ALD3 | 9/4/2004 | Bucket | 14 | 6.5 | 6.3 | 1790 | 12 | 215 | 107 | 13 | 89.3 | 80.6 | 16.9 | 16.8 | 0.1 | 0.1 | 1477 | 54 |
| ALD3 | 11/5/2004 | | | | 6.5 | | | | 199 | 4 | 56.9 | | 15.3 | | 0.3 | | 704 | 38 |
| Min | | | 14 | 6.5 | 6.1 | 1719 | 10 | 215 | 96 | -50 | 56.9 | 80.5 | 15.3 | 15.4 | 0.0 | 0.0 | 704 | 28 |
| Max | | | 15 | 6.5 | 6.5 | 1790 | 12 | 224 | 199 | 37 | 89.3 | 83.0 | 19.2 | 16.8 | 0.3 | 0.1 | 1477 | 54 |
| Avg | | | 15 | 6.5 | 6.4 | 1756 | 11 | 220 | 148 | 3 | 77.4 | 81.3 | 16.9 | 15.8 | 0.2 | 0.0 | 1018 | 40 |
| Range | | | 1 | 0.0 | 0.4 | 71 | 2 | 9 | 103 | 88 | 32.4 | 2.5 | 3.9 | 1.4 | 0.2 | 0.0 | 772 | 26 |

Description: Anoxic Limestone Drain 3; Sampled at effluent pipe; Receives discharge ST 63A and discharges to Settling Pond 5 (SP5)

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| SP5 | 6/8/2004 | Assumed | 15 | 6.5 | 6.4 | 1726 | 25 | 136 | 77 | -26 | 40.1 | 28.3 | 15.5 | 14.8 | 0.1 | 0.1 | 1187 | 37 |
| SP5 | 6/16/2004 | | | | 6.2 | | | | 79 | 6 | 52.7 | | 17.9 | | 0.3 | | 906 | 10 |
| SP5 | 7/20/2004 | Assumed | 15 | 6.5 | 6.3 | 1692 | 24 | 98 | 53 | -16 | 33.6 | 16.5 | 15.5 | 14.0 | 0.1 | 0.0 | 1290 | 48 |
| SP5 | 8/20/2004 | | | | 6.1 | | | | 67 | 17 | 48.9 | | 18.4 | | 0.3 | | 811 | 90 |
| SP5 | 9/1/2004 | Assumed | 14 | 6.5 | 6.3 | 1715 | 20 | 121 | 54 | -3 | 45.6 | 32.8 | 16.4 | 15.5 | 0.0 | 0.0 | 1262 | 41 |
| SP5 | 11/5/2004 | | | | 6.3 | | | | 86 | -10 | 35.8 | | 15.2 | | 0.3 | | 777 | 80 |
| Min | | | 14 | 6.5 | 6.1 | 1692 | 20 | 98 | 53 | -26 | 33.6 | 16.5 | 15.2 | 14.0 | 0.0 | 0.0 | 777 | 10 |
| Max | | | 15 | 6.5 | 6.4 | 1726 | 25 | 136 | 86 | 17 | 52.7 | 32.8 | 18.4 | 15.5 | 0.3 | 0.1 | 1290 | 90 |
| Avg | | | 15 | 6.5 | 6.3 | 1711 | 23 | 118 | 69 | -5 | 42.8 | 25.9 | 16.5 | 14.7 | 0.2 | 0.0 | 1039 | 51 |
| Range | | | 1 | 0.0 | 0.3 | 34 | 5 | 38 | 32 | 44 | 19.1 | 16.2 | 3.2 | 1.5 | 0.2 | 0.1 | 513 | 80 |

Description: Settling Pond 5; Sampled in spillway; Receives from Anoxic Limestone Drain 3 and discharges to Seaton Creek; One of two final effluent points of the passive treatment complex

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 48 | 9/8/1994 | | | | 4.6 | | | | 10 | 124 | 1.3 | | 26.6 | | 8.2 | | 571 | 3 |
| 48 | 3/22/1995 | | | | 4.8 | | | | 10 | 36 | 0.4 | | 12.8 | | 3.5 | | 422 | 3 |
| 48 | 6/29/1995 | | | | 4.7 | | | | 10 | 46 | 0.5 | | 14.6 | | 4.3 | | 385 | 6 |
| 48 | 8/22/1995 | | | | 4.4 | | | | 7 | 110 | 0.7 | | 29.8 | | 8.1 | | 852 | 16 |
| 48 | 9/12/1995 | | | | 4.6 | | | | 11 | 118 | 1.0 | | 33.2 | | 8.4 | | 888 | 8 |
| 48 | 10/12/1995 | | | | 4.6 | | | | 10 | 102 | 2.4 | | 33.8 | | 9.6 | | 832 | 8 |
| 48 | 11/15/1995 | | | | 6.0 | | | | 22 | 0 | 0.6 | | 2.7 | | 0.5 | | 93 | 6 |
| 48 | 2/22/1996 | | | | 4.7 | | | | 7 | 14 | 0.9 | | 8.3 | | 3.3 | | 158 | 3 |
| 48 | 3/13/1996 | | | | 4.6 | | | | 8 | 76 | 1.4 | | 13.0 | | 4.7 | | 332 | 12 |
| 48 | 4/30/1996 | | | | 4.6 | | | | 7 | 24 | 3.0 | | 7.3 | | 1.8 | | 205 | 3 |
| 48 | 5/9/1996 | | | | 4.8 | | | | 10 | 48 | 0.6 | | 12.2 | | 3.9 | | 359 | 3 |
| 48 | 6/18/1996 | | | | 4.5 | | | | 9 | 122 | 1.0 | | 22.8 | | 7.7 | | 941 | 3 |
| 48 | 7/9/1996 | | | | 4.6 | | | | 9 | 76 | 0.7 | | 21.6 | | 7.1 | | 627 | 6 |
| 48 | 8/15/1996 | | | | 4.6 | | | | 9 | 102 | 0.5 | | 20.0 | | 5.8 | | 733 | 2 |
| 48 | 9/10/1996 | | | | 5.8 | | | | 15 | 24 | 0.7 | | 8.0 | | 0.9 | | 110 | 4 |
| 48 | 11/20/1996 | | | | 5.6 | | | | 7 | 14 | 0.2 | | 4.6 | | 1.3 | | 132 | 2 |
| 48 | 1/23/1997 | | | | 4.6 | | | | 9 | 58 | 0.9 | | 11.0 | | 3.6 | | 300 | 20 |
| 48 | 2/27/1997 | | | | 4.6 | | | | 8 | 22 | 0.6 | | 7.9 | | 2.2 | | 207 | 4 |
| 48 | 3/19/1997 | | | | 4.6 | | | | 10 | 54 | 0.6 | | 11.7 | | 4.3 | | 402 | 2 |
| 48 | 5/20/1997 | | | | 4.6 | | | | 9 | 70 | 0.3 | | 14.5 | | 4.1 | | 417 | 2 |
| 48 | 8/6/1997 | | | | 4.4 | | | | 7 | 94 | 4.7 | | 26.6 | | 8.0 | | 703 | 12 |
| 48 | 10/9/1997 | | | | 4.7 | | | | 10 | 72 | 0.5 | | 18.3 | | 4.1 | | 576 | 2 |
| 48 | 1/7/1998 | | | | 4.7 | | | | 10 | 24 | 0.2 | | 12.0 | | 3.6 | | 331 | 2 |
| 48 | 5/14/1998 | | | | 4.7 | | | | 9 | 48 | 0.2 | | 11.7 | | 3.7 | | 332 | 2 |
| 48 | 3/30/2000 | Measured | 1270 | | 5.0 | | | | 9 | 5 | 0.2 | | 8.9 | | 0.9 | | 296 | 2 |
| 48 | 5/10/2000 | Measured | 1050 | | 4.9 | | | | 10 | 15 | 0.6 | | 14.5 | | 1.7 | | 366 | 2 |
| 48 | 11/20/2000 | | | 6.5 | 6.5 | 1173 | 2 | | 27 | 0 | 1.8 | | 13.2 | | 0.3 | | 644 | 13 |
| 48 | 2/22/2001 | | | | 6.3 | | | | 20 | 0 | 0.4 | | 6.4 | | 0.3 | | 251 | 2 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 48 | 3/29/2001 | | | | 6.0 | | | | 18 | 0 | 0.2 | | 6.4 | | 0.3 | | 261 | 2 |
| 48 | 4/5/2001 | Measured | 1000 | | 6.4 | | | | 22 | 0 | 0.2 | | 6.2 | | 0.3 | | 288 | 2 |
| 48 | 4/20/2001 | | | 6.3 | 6.3 | 462 | 8 | | 10 | 0 | 0.1 | 0.1 | 4.4 | 4.2 | 0.1 | 0.0 | 234 | 5 |
| 48 | 5/8/2001 | | | | 6.3 | | | | 22 | 0 | 0.3 | | 7.8 | | 0.3 | | 309 | 2 |
| 48 | 6/22/2001 | | | | 6.4 | | | | 28 | 41 | 0.9 | | 11.2 | | 0.3 | | 404 | 2 |
| 48 | 7/11/2001 | | | | 6.5 | | | | 32 | 0 | 1.0 | | 13.3 | | 0.3 | | 528 | 6 |
| 48 | 8/6/2001 | | | | 6.6 | 1068 | | | 50 | 0 | 0.9 | | 11.5 | | 0.0 | | 739 | 6 |
| 48 | 8/30/2001 | | | | 6.5 | | | | 58 | 0 | 1.1 | | 10.7 | | 0.3 | | 642 | 8 |
| 48 | 10/18/2001 | | | | 6.5 | | | | 42 | 0 | 1.7 | | 11.8 | | 0.3 | | 669 | 8 |
| 48 | 11/8/2001 | | | 6.8 | 6.6 | 1177 | 10 | | 24 | 0 | 1.1 | 0.7 | 11.8 | 11.7 | 0.5 | 0.2 | 770 | 9 |
| 48 | 3/7/2002 | | | 6.8 | 6.6 | 622 | | | 12 | 0 | 0.3 | 0.2 | 4.9 | 4.9 | 0.1 | 0.0 | 296 | 1 |
| 48 | 3/13/2002 | | | | 6.2 | | | | 24 | 23 | 0.4 | | 5.2 | | 0.3 | | 278 | 2 |
| 48 | 4/30/2002 | | | | 5.9 | | | | 13 | 45 | 0.2 | | 6.6 | | 0.3 | | 298 | 2 |
| 48 | 7/25/2002 | | | | 6.7 | | | | 34 | 0 | 0.8 | | 16.9 | | 0.3 | | 696 | 10 |
| 48 | 10/8/2002 | | | | 6.8 | | | | 42 | 0 | 1.5 | | 12.2 | | 0.3 | | 804 | 10 |
| 48 | 10/14/2002 | | | 7.0 | 6.7 | 1335 | 10 | 30 | 28 | 1 | 1.1 | 0.7 | 12.8 | 12.5 | 0.1 | 0.1 | 933 | 9 |
| 48 | 3/14/2003 | | | | 6.3 | | | | 11 | 32 | 0.2 | | 4.4 | | 0.3 | | 167 | 2 |
| 48 | 4/24/2003 | | | 6.5 | 6.4 | 827 | 10 | | 11 | -4 | 0.3 | 0.2 | 6.5 | 6.5 | 0.1 | 0.1 | 436 | 3 |
| 48 | 6/17/2003 | | | | 6.0 | | | | 18 | 16 | 0.2 | | 4.0 | | 0.3 | | 267 | 2 |
| 48 | 6/30/2003 | | | 6.7 | 6.6 | 857 | 22 | 22 | 15 | -8 | 0.4 | 0.1 | 6.3 | 6.2 | 0.1 | 0.0 | 528 | 1 |
| 48 | 7/23/2003 | | | 6.7 | 6.4 | 853 | 24 | 13 | 15 | -5 | 0.4 | 0.1 | 10.3 | 10.2 | 0.1 | 0.1 | 475 | 4 |
| 48 | 8/28/2003 | | | 6.8 | 6.9 | 840 | 25 | 19 | 18 | -8 | 0.4 | 0.1 | 11.4 | 11.2 | 0.1 | 0.1 | 555 | 6 |
| 48 | 9/11/2003 | | | | 6.7 | | | | 19 | 0 | 0.3 | | 8.7 | | 0.3 | | 426 | 4 |
| 48 | 10/29/2003 | | | 6.8 | 6.2 | 1294 | 8 | 8 | 7 | 2 | 0.3 | 0.2 | 9.6 | 9.4 | 0.2 | 0.1 | 369 | 2 |
| 48 | 10/30/2003 | | | | 6.5 | | | | 15 | 0 | 0.2 | | 9.0 | | 0.3 | | 297 | 16 |
| 48 | 3/23/2004 | | | | 5.4 | | | | 8 | 45 | 0.3 | | 6.5 | | 1.1 | | 254 | 10 |
| 48 | 3/25/2004 | | | 5.7 | 5.5 | 550 | | 5 | 3 | 8 | 0.4 | 0.3 | 6.5 | 6.4 | 1.1 | 0.7 | 225 | 5 |
| 48 | 6/4/2004 | | | | 6.8 | | | | 20 | 40 | 0.3 | | 7.8 | | 0.3 | | 490 | 2 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 48 | 6/8/2004 | | | 6.7 | 6.4 | 857 | | 13 | 12 | -1 | 0.2 | 0.1 | 6.1 | 5.9 | 0.1 | 0.1 | 492 | 2 |
| 48 | 7/20/2004 | | | 7.0 | 6.4 | 910 | 23 | 19 | 16 | -5 | 0.4 | 0.4 | 6.3 | 6.1 | 0.1 | 0.0 | 533 | 4 |
| 48 | 8/20/2004 | | | | 6.4 | | | | 17 | 25 | 0.3 | | 5.2 | | 0.3 | | 233 | 2 |
| 48 | 9/1/2004 | | | 6.7 | 6.5 | 516 | 19 | 16 | 10 | 1 | 0.3 | 0.1 | 3.0 | 3.0 | 0.0 | 0.0 | 283 | 1 |
| 48 | 11/4/2004 | | | | 6.9 | | | | 23 | -73 | 0.5 | | 9.6 | | 0.3 | | 431 | 2 |
| Min | | | 1000 | 5.7 | 4.4 | 462 | 2 | 5 | 3 | -73 | 0.1 | 0.1 | 2.7 | 3.0 | 0.0 | 0.0 | 93 | 1 |
| Max | | | 1270 | 7.0 | 6.9 | 1335 | 25 | 30 | 58 | 124 | 4.7 | 0.7 | 33.8 | 12.5 | 9.6 | 0.7 | 941 | 20 |
| Avg | | | 1107 | 6.6 | 5.7 | 889 | 15 | 16 | 16 | 27 | 0.7 | 0.3 | 11.5 | 7.6 | 2.0 | 0.1 | 444 | 5 |
| Range | | | 270 | 1.3 | 2.5 | 873 | 23 | 25 | 55 | 197 | 4.6 | 0.6 | 31.1 | 9.5 | 9.6 | 0.7 | 848 | 19 |

Description: Seaton Creek at McJunkin Road sampled at bridge; ~ 1/2 mile Downstream of the De Sale Restoration Area; Upstream of the Erico Briridge Restoration Area.

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 19.1 | 2/21/1996 | | | | 5.0 | | | | 8 | 22 | 3.1 | | 7.4 | | 1.0 | | 207 | 3 |
| 19.1 | 3/13/1996 | | | | 5.0 | | | | 8 | 68 | 7.1 | | 12.8 | | 1.4 | | 356 | 3 |
| 19.1 | 4/16/1996 | | | | 4.8 | | | | 8 | 38 | 3.9 | | 13.3 | | 2.2 | | 419 | 3 |
| 19.1 | 5/8/1996 | | | | 5.0 | | | | 8 | 74 | 5.2 | | 10.5 | | 1.0 | | 406 | 3 |
| 19.1 | 6/18/1996 | | | | 4.1 | | | | 4 | 122 | 11.1 | | 22.7 | | 1.1 | | 720 | 12 |
| 19.1 | 7/9/1996 | | | | 4.2 | | | | 6 | 82 | 11.9 | | 23.9 | | 0.8 | | 641 | 2 |
| 19.1 | 8/15/1996 | | | | 3.7 | | | | 0 | 84 | 4.2 | | 25.2 | | 0.8 | | 692 | 2 |
| 19.1 | 9/10/1996 | | | | 4.2 | | | | 5 | 44 | 0.8 | | 12.5 | | 0.7 | | 364 | 12 |
| 19.1 | 10/15/1996 | | | | 4.4 | | | | 6 | 56 | 4.3 | | 17.0 | | 0.6 | | 561 | 2 |
| 19.1 | 11/19/1996 | | | | 5.1 | | | | 8 | 40 | 4.2 | | 11.4 | | 0.9 | | 339 | 20 |
| 19.1 | 1/23/1997 | | | | 4.8 | | | | 8 | 56 | 4.4 | | 11.2 | | 1.4 | | 352 | 48 |
| 19.1 | 2/27/1997 | | | | 4.8 | | | | 9 | 34 | 2.8 | | 9.0 | | 1.3 | | 270 | 12 |
| 19.1 | 3/19/1997 | | | | 5.0 | | | | 10 | 42 | 6.0 | | 10.5 | | 1.5 | | 368 | 2 |
| 19.1 | 8/5/1997 | | | | 3.5 | | | | 0 | 116 | 4.0 | | 29.7 | | 1.3 | | 756 | 2 |
| 19.1 | 10/9/1997 | | | | 4.2 | | | | 5 | 46 | 1.5 | | 13.7 | | 0.8 | | 453 | 2 |
| 19.1 | 1/7/1998 | | | | 4.7 | | | | 8 | 22 | 2.1 | | 10.7 | | 1.0 | | 364 | 2 |
| 19.1 | 5/14/1998 | | | | 4.7 | | | | 8 | 42 | 4.4 | | 11.5 | | 0.9 | | 396 | 3 |
| 19.1 | 12/7/1999 | | | | 6.0 | | | | 14 | 22 | 1.1 | | 9.6 | | 0.3 | | 399 | 4 |
| 19.1 | 2/10/2000 | | | | 5.7 | | | | 17 | 52 | 3.2 | | 16.9 | | 0.3 | | 577 | 6 |
| 19.1 | 9/14/2000 | | | | 5.9 | | | | 17 | 13 | 1.6 | | 12.7 | | 0.3 | | 488 | 3 |
| 19.1 | 11/17/2000 | | | | 6.4 | | | | 24 | 0 | 1.3 | | 5.3 | | 0.3 | | 560 | 3 |
| 19.1 | 2/22/2001 | | | | 6.4 | | | | 19 | 0 | 1.0 | | 4.0 | | 0.3 | | 261 | 2 |
| 19.1 | 3/29/2001 | | | | 5.9 | | | | 17 | 3 | 2.8 | | 5.8 | | 0.3 | | 283 | 2 |
| 19.1 | 5/8/2001 | | | | 6.0 | | | | 17 | 22 | 4.1 | | 8.4 | | 0.3 | | 395 | 2 |
| 19.1 | 7/11/2001 | | | | 6.2 | | | | 18 | 42 | 3.6 | | 12.3 | | 0.3 | | 485 | 6 |
| 19.1 | 8/6/2001 | | | | 6.1 | 1132 | | | 14 | 18 | 3.3 | | 14.7 | | 0.1 | | 790 | 4 |
| 19.1 | 10/18/2001 | | | | 6.6 | | | | 34 | 0 | 1.8 | | 4.1 | | 0.3 | | 627 | 6 |
| 19.1 | 11/8/2001 | | | 6.0 | 5.2 | 1610 | 14 | | 4 | 96 | 15.7 | 15.3 | 17.5 | 16.0 | 0.8 | 0.5 | 1093 | 7 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 19.1 | 3/7/2002 | | | 6.2 | 6.3 | 715 | | | 10 | 2 | 5.4 | 4.9 | 5.8 | 5.8 | 0.2 | 0.0 | 378 | 3 |
| 19.1 | 3/13/2002 | | | | 6.5 | | | | 22 | 0 | 5.6 | | 6.3 | | 0.3 | | 298 | 6 |
| 19.1 | 4/30/2002 | | | | 5.7 | | | | 14 | 90 | 27.2 | | 8.6 | | 0.3 | | 478 | 28 |
| 19.1 | 7/25/2002 | | | | 6.0 | | | | 28 | 65 | 32.0 | | 17.9 | | 0.3 | | 1159 | 12 |
| 19.1 | 10/8/2002 | | | | 6.1 | | | | 20 | 105 | 14.0 | | 13.4 | | 0.3 | | 725 | 4 |
| 19.1 | 10/14/2002 | | | 4.7 | 4.3 | 1568 | 11 | | 0 | 94 | 34.1 | 26.5 | 25.7 | 22.0 | 0.8 | 0.4 | 955 | 7 |
| 19.1 | 3/18/2003 | | | | 6.1 | | | | 13 | 29 | 4.7 | | 3.6 | | 0.3 | | 222 | 4 |
| 19.1 | 6/17/2003 | | | | 6.1 | | | | 21 | 31 | 3.6 | | 3.7 | | 0.3 | | 273 | 4 |
| 19.1 | 7/23/2003 | | | 7.1 | 6.5 | 870 | 25 | 35 | 29 | -19 | 1.9 | 1.3 | 3.2 | 3.2 | 0.1 | 0.1 | 523 | 6 |
| 19.1 | 7/30/2003 | | | | 6.8 | | | | 31 | 0 | 0.9 | | 3.7 | | 0.3 | | 216 | 2 |
| 19.1 | 9/16/2003 | | | | 6.8 | | | | 56 | 0 | 0.7 | | 3.8 | | 0.3 | | 477 | 2 |
| 19.1 | 10/30/2003 | | | | 6.8 | | | | 46 | 0 | 4.4 | | 4.7 | | 0.3 | | 293 | 4 |
| 19.1 | 10/30/2003 | | | 7.1 | 6.6 | 902 | 12 | 43 | 39 | -24 | 1.6 | 1.3 | 4.3 | 4.2 | 0.1 | 0.1 | 528 | 6 |
| 19.1 | 3/23/2004 | | | | 6.7 | | | | 21 | 22 | 1.3 | | 5.0 | | 0.3 | | 259 | 10 |
| 19.1 | 3/25/2004 | | | 6.6 | 4.9 | 593 | | 19 | 7 | 31 | 1.3 | 1.3 | 3.9 | 3.8 | 0.1 | 0.0 | 251 | 5 |
| 19.1 | 6/8/2004 | | | 6.4 | 6.6 | 1070 | 23 | 32 | 36 | -21 | 1.7 | 1.7 | 2.9 | 2.7 | 0.2 | 0.0 | 605 | 4 |
| 19.1 | 6/16/2004 | | | | 7.1 | | | | 42 | 3 | 0.7 | | 3.8 | | 0.3 | | 358 | 6 |
| 19.1 | 7/20/2004 | | | 7.0 | 6.8 | 1072 | 23 | 39 | 43 | -29 | 3.0 | 1.1 | 2.9 | 2.4 | 0.2 | 0.1 | 681 | 4 |
| 19.1 | 8/20/2004 | | | | 6.4 | | | | 21 | 28 | 0.8 | | 1.7 | | 0.3 | | 189 | 2 |
| 19.1 | 9/1/2004 | | | 7.2 | 6.8 | 600 | 23 | 23 | 18 | -5 | 1.0 | 0.6 | 1.7 | 1.5 | 0.1 | 0.1 | 344 | 1 |
| 19.1 | 11/5/2004 | | | | 6.3 | | | | 35 | 8 | 0.5 | | 5.1 | | 0.3 | | 383 | 2 |
| Min | | | | 4.7 | 3.5 | 593 | 11 | 19 | 0 | -29 | 0.5 | 0.6 | 1.7 | 1.5 | 0.1 | 0.0 | 189 | 1 |
| Max | | | | 7.2 | 7.1 | 1610 | 25 | 43 | 56 | 122 | 34.1 | 26.5 | 29.7 | 22.0 | 2.2 | 0.5 | 1159 | 48 |
| Avg | | | | 6.5 | 5.6 | 1013 | 19 | 32 | 17 | 34 | 5.4 | 6.0 | 10.1 | 6.8 | 0.5 | 0.1 | 474 | 6 |
| Range | | | | 2.5 | 3.6 | 1017 | 14 | 24 | 56 | 151 | 33.5 | 25.9 | 28.1 | 20.4 | 2.1 | 0.5 | 970 | 47 |

Description: Seaton Creek; Downstream of sampling point 48 and below the Erico Bridge Restoration Area; Sampled at North Erico (T-504) bridge.

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 19 | 5/3/1994 | | | | 5.0 | | | | 11 | 68 | 10.0 | | 19.0 | | 3.1 | | 512 | 3 |
| 19 | 11/2/1994 | | | | 4.1 | | | | 4 | 34 | 1.0 | | 7.9 | | 0.7 | | 232 | 14 |
| 19 | 3/22/1995 | | | | 5.0 | | | | 10 | 38 | 6.6 | | 14.1 | | 1.4 | | 428 | 3 |
| 19 | 6/7/1995 | | | | 5.1 | | | | 9 | 56 | 6.3 | | 11.0 | | 0.5 | | 358 | 8 |
| 19 | 6/29/1995 | | | | 3.8 | | | | 0 | 38 | 2.1 | | 14.1 | | 0.7 | | 395 | 14 |
| 19 | 8/22/1995 | | | | 3.4 | | | | 0 | 96 | 2.7 | | 25.9 | | 0.6 | | 767 | 6 |
| 19 | 9/12/1995 | | | | 3.5 | | | | 0 | 100 | 2.8 | | 28.1 | | 0.8 | | 814 | 6 |
| 19 | 10/11/1995 | | | | 3.6 | | | | 0 | 62 | 1.5 | | 22.9 | | 0.7 | | 715 | 3 |
| 19 | 11/14/1995 | | | | 4.2 | | | | 5 | 28 | 0.8 | | 9.2 | | 0.8 | | 285 | 24 |
| 19 | 2/21/1996 | | | | 4.4 | | | | 5 | 20 | 1.8 | | 6.6 | | 1.0 | | 193 | 3 |
| 19 | 3/14/1996 | | | | 4.2 | | | | 7 | 74 | 2.7 | | 12.1 | | 1.4 | | 416 | 3 |
| 19 | 4/16/1996 | | | | 4.0 | | | | 2 | 30 | 0.9 | | 12.6 | | 1.7 | | 393 | 3 |
| 19 | 5/8/1996 | | | | 3.9 | | | | 0 | 70 | 0.7 | | 10.2 | | 1.0 | | 391 | 3 |
| 19 | 6/18/1996 | | | | 3.5 | | | | 0 | 114 | 2.2 | | 19.1 | | 1.0 | | 687 | 3 |
| 19 | 7/10/1996 | | | | 3.6 | | | | 0 | 74 | 1.5 | | 19.1 | | 0.9 | | 610 | 2 |
| 19 | 8/16/1996 | | | | 3.7 | | | | 0 | 76 | 1.0 | | 17.1 | | 0.8 | | 541 | 2 |
| 19 | 9/11/1996 | | | | 3.7 | | | | 0 | 48 | 0.8 | | 14.4 | | 0.5 | | 424 | 2 |
| 19 | 10/16/1996 | | | | 3.9 | | | | 0 | 60 | 0.9 | | 17.0 | | 0.8 | | 534 | 2 |
| 19 | 11/19/1996 | | | | 4.1 | | | | 3 | 40 | 0.9 | | 11.1 | | 0.9 | | 327 | 38 |
| 19 | 1/28/1997 | | | | 4.3 | | | | 7 | 40 | 1.5 | | 8.8 | | 1.1 | | 310 | 2 |
| 19 | 2/12/1997 | | | | 4.2 | | | | 6 | 38 | 1.6 | | 9.9 | | 1.0 | | 346 | 2 |
| 19 | 3/19/1997 | | | | 4.2 | | | | 5 | 32 | 1.4 | | 9.5 | | 1.2 | | 343 | 2 |
| 19 | 5/20/1997 | | | | 3.8 | | | | 0 | 56 | 0.6 | | 12.8 | | 1.1 | | 545 | 2 |
| 19 | 8/5/1997 | | | | 3.4 | | | | 0 | 104 | 3.3 | | 23.4 | | 0.8 | | 672 | 2 |
| 19 | 10/10/1997 | | | | 3.7 | | | | 0 | 56 | 1.0 | | 18.0 | | 0.7 | | 558 | 2 |
| 19 | 1/7/1998 | | | | 4.0 | | | | 2 | 24 | 1.1 | | 12.0 | | 1.1 | | 413 | 2 |
| 19 | 5/14/1998 | | | | 4.1 | | | | 3 | 44 | 1.3 | | 11.3 | | 0.9 | | 392 | 2 |
| 19 | 6/17/1999 | | | | 3.7 | | | | 0 | 52 | 1.3 | | 19.7 | | 0.6 | | 614 | 8 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 19 | 6/28/2000 | | | | 5.8 | | | | 14 | 10 | 1.5 | | 9.1 | | 0.3 | | 349 | 2 |
| 19 | 4/5/2001 | Measured | 1500 | | 5.4 | | | | 11 | 14 | 2.8 | | 8.0 | | 0.3 | | 387 | 2 |
| 19 | 10/17/2003 | | | | 6.9 | | | | 36 | 0 | 1.5 | | 3.1 | | 0.3 | | 287 | 2 |
| 19 | 6/8/2004 | | | 7.3 | 6.8 | 1057 | 23 | 50 | 42 | -28 | 0.7 | 0.3 | 2.6 | 2.4 | 0.1 | 0.0 | 583 | 4 |
| Min | | | 1500 | 7.3 | 3.4 | 1057 | 23 | 50 | 0 | -28 | 0.6 | 0.3 | 2.6 | 2.4 | 0.1 | 0.0 | 193 | 2 |
| Max | | | 1500 | 7.3 | 6.9 | 1057 | 23 | 50 | 42 | 114 | 10.0 | 0.3 | 28.1 | 2.4 | 3.1 | 0.0 | 814 | 38 |
| Avg | | | 1500 | 7.3 | 4.3 | 1057 | 23 | 50 | 6 | 49 | 2.1 | 0.3 | 13.7 | 2.4 | 0.9 | 0.0 | 463 | 5 |
| Range | | | 0 | 0.0 | 3.5 | 0 | 0 | 0 | 42 | 142 | 9.4 | 0.0 | 25.5 | 0.0 | 3.0 | 0.0 | 621 | 37 |

Description: Seaton Creek; Downstream of 19.1 before confluenting with Murrin Run

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| T2 | 1/29/1969 | | | | 3.5 | | | | 0 | 138 | 15.8 | | | | | | 384 | |
| T2 | 5/15/1969 | | | | 3.9 | | | | 0 | 36 | 2.3 | | | | | | 202 | |
| T2 | 8/20/1969 | | | | 4.0 | | | | 0 | 26 | 3.3 | | | | | | 182 | |
| T2 | 9/24/1969 | | | | 3.6 | | | | 0 | 44 | 3.0 | | | | | | 346 | |
| T2 | 10/22/1969 | | | | 4.6 | | | | 10 | 18 | 1.7 | | | | | | 144 | |
| Min | | | | | 3.5 | | | | 0 | 18 | 1.7 | | | | | | 144 | |
| Max | | | | | 4.6 | | | | 10 | 138 | 15.8 | | | | | | 384 | |
| Avg | | | | | 3.9 | | | | 2 | 52 | 5.2 | | | | | | 252 | |
| Range | | | | | 1.1 | | | | 10 | 120 | 14.1 | | | | | | 240 | |

Description: Seaton Creek; Near mouth; Operation Scarlift monitoring point from report SL-110

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 68 | 9/28/1994 | | | | 5.9 | | | | 13 | 3 | 0.8 | | 12.2 | | 0.5 | | 406 | 3 |
| 68 | 6/29/1995 | | | | 5.8 | | | | 12 | 13 | 1.0 | | 10.8 | | 0.5 | | 432 | 18 |
| 68 | 8/22/1995 | | | | 6.0 | | | | 24 | 17 | 0.3 | | 13.7 | | 0.5 | | 626 | 3 |
| 68 | 9/12/1995 | | | | 6.3 | | | | 28 | 15 | 0.3 | | 12.8 | | 0.5 | | 683 | 4 |
| 68 | 10/11/1995 | | | | 6.2 | | | | 24 | 11 | 0.3 | | 11.4 | | 0.5 | | 581 | 3 |
| 68 | 11/7/1995 | | | | 6.1 | | | | 19 | 5 | 0.8 | | 8.8 | | 0.5 | | 436 | 3 |
| 68 | 11/15/1995 | | | | 5.7 | | | | 11 | 6 | 1.9 | | 3.5 | | 1.0 | | 163 | 3 |
| 68 | 11/20/1995 | | | | 5.9 | | | | 12 | 11 | 0.6 | | 6.4 | | 0.7 | | 272 | 4 |
| 68 | 12/5/1995 | | | | 6.5 | | | | 20 | 0 | 0.8 | | 7.1 | | 0.7 | | 335 | 3 |
| 68 | 2/21/1996 | | | | 4.9 | | | | 7 | 20 | 1.9 | | 6.0 | | 1.9 | | 204 | 14 |
| 68 | 2/22/1996 | | | | 4.9 | | | | 7 | 13 | 1.3 | | 6.3 | | 1.8 | | 226 | 4 |
| 68 | 3/14/1996 | | | | 5.3 | | | | 10 | 60 | 1.8 | | 9.3 | | 2.1 | | 347 | 14 |
| 68 | 3/27/1996 | | | | 5.4 | | | | 9 | 36 | 1.7 | | 9.1 | | 1.9 | | 330 | 3 |
| 68 | 4/18/1996 | | | | 5.0 | | | | 8 | 30 | 1.0 | | 9.2 | | 1.7 | | 389 | 3 |
| 68 | 5/8/1996 | | | | 5.4 | | | | 8 | 56 | 0.8 | | 7.4 | | 1.0 | | 320 | 3 |
| 68 | 5/30/1996 | | | | 5.5 | | | | 10 | 24 | 0.8 | | 12.6 | | 0.7 | | 453 | 3 |
| 68 | 6/18/1996 | | | | 5.4 | | | | 10 | 46 | 1.7 | | 14.0 | | 0.9 | | 554 | 24 |
| 68 | 6/27/1996 | | | | 5.8 | | | | 11 | 13 | 0.9 | | 8.8 | | 0.6 | | 312 | 3 |
| 68 | 7/10/1996 | | | | 6.2 | | | | 14 | 24 | 0.5 | | 11.8 | | 0.3 | | 547 | 2 |
| 68 | 7/31/1996 | | | | 5.9 | | | | 12 | 36 | 0.5 | | 14.1 | | 0.3 | | 590 | 2 |
| 68 | 10/16/1996 | | | | 6.3 | | | | 22 | 16 | 0.5 | | 10.0 | | 0.3 | | 488 | 4 |
| 68 | 11/15/1996 | | | | 6.2 | | | | 13 | 3 | 0.7 | | 0.3 | | 0.3 | | 71 | 2 |
| 68 | 11/26/1996 | | | | 5.8 | | | | 12 | 24 | 1.7 | | 7.4 | | 1.1 | | 268 | 2 |
| 68 | 1/6/1997 | | | | 5.2 | | | | 9 | 2 | 1.1 | | 9.1 | | 2.0 | | 322 | 6 |
| 68 | 3/12/1997 | | | | 5.5 | | | | 10 | 24 | 1.0 | | 7.2 | | 1.7 | | 296 | 14 |
| 68 | 9/30/1997 | | | | 6.0 | | | | 18 | 0 | 1.0 | | 0.7 | | 0.3 | | 180 | 2 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| Min | | | | | 4.9 | | | | 7 | 0 | 0.3 | | 0.3 | | 0.3 | | 71 | 2 |
| Max | | | | | 6.5 | | | | 28 | 60 | 1.9 | | 14.1 | | 2.1 | | 683 | 24 |
| Avg | | | | | 5.7 | | | | 14 | 20 | 1.0 | | 8.8 | | 0.9 | | 378 | 6 |
| Range | | | | | 1.6 | | | | 21 | 60 | 1.6 | | 13.8 | | 1.9 | | 612 | 23 |

Description: Seaton Creek; Sampled before confluence with main branch of Slippery Rock Creek; Final downstream point of Seaton Creek; Essentially the same as sampling point 68.1

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 68.1 | 10/10/1997 | | | | 5.9 | | | | 22 | 13 | 0.4 | | 11.7 | | 0.3 | | 538 | 4 |
| 68.1 | 1/8/1998 | | | | 5.4 | | | | 11 | 11 | 1.3 | | 9.4 | | 1.3 | | 354 | 2 |
| 68.1 | 5/14/1998 | | | | 5.5 | | | | 10 | 24 | 1.1 | | 9.4 | | 1.1 | | 387 | 6 |
| 68.1 | 10/14/1998 | | | | 6.3 | | | | 22 | 0 | 0.6 | | 10.9 | | 0.3 | | 519 | 2 |
| 68.1 | 12/7/1999 | | | | 6.3 | | | | 24 | 8 | 1.1 | | 8.7 | | 0.3 | | 464 | 2 |
| 68.1 | 2/10/2000 | | | | 6.3 | | | | 36 | 17 | 4.2 | | 11.3 | | 0.7 | | 873 | 8 |
| 68.1 | 3/30/2000 | Measured | 3200 | | 5.7 | | | | 28 | 0 | 1.3 | | 6.3 | | 0.3 | | 352 | 4 |
| 68.1 | 5/10/2000 | Measured | 5200 | | 6.1 | | | | 15 | 3 | 1.4 | | 10.4 | | 0.3 | | 395 | 2 |
| 68.1 | 6/28/2000 | | | | 6.2 | | | | 20 | 0 | 1.0 | | 7.8 | | 0.3 | | 362 | 2 |
| 68.1 | 9/14/2000 | | | | 6.2 | | | | 24 | 5 | 0.8 | | 10.4 | | 0.3 | | 536 | 2 |
| 68.1 | 11/17/2000 | | | | 6.6 | | | | 34 | 0 | 1.8 | | 6.6 | | 0.3 | | 595 | 4 |
| 68.1 | 2/22/2001 | | | | 6.6 | | | | 28 | 0 | 2.4 | | 4.0 | | 0.3 | | 295 | 8 |
| 68.1 | 3/29/2001 | | | | 6.1 | | | | 22 | 0 | 2.2 | | 5.5 | | 0.3 | | 328 | 4 |
| 68.1 | 4/5/2001 | Measured | 4100 | | 6.4 | | | | 24 | 0 | 1.8 | | 5.8 | | 0.3 | | 359 | 3 |
| 68.1 | 5/8/2001 | Measured | 3300 | | 6.5 | | | | 26 | 0 | 1.3 | | 7.5 | | 0.3 | | 408 | 6 |
| 68.1 | 7/11/2001 | | | | 6.6 | | | | 28 | 0 | 1.3 | | 9.5 | | 0.3 | | 464 | 4 |
| 68.1 | 10/18/2001 | | | | 6.7 | | | | 40 | 0 | 1.1 | | 5.9 | | 0.3 | | 764 | 16 |
| 68.1 | 3/13/2002 | | | | 6.5 | | | | 28 | 0 | 2.1 | | 5.0 | | 0.3 | | 327 | 4 |
| 68.1 | 4/30/2002 | | | | 5.8 | | | | 13 | 61 | 7.7 | | 7.7 | | 0.3 | | 401 | 10 |
| 68.1 | 7/25/2002 | | | | 6.3 | | | | 19 | 48 | 12.4 | | 15.8 | | 0.3 | | 838 | 2 |
| 68.1 | 10/8/2002 | | | | 6.6 | | | | 26 | 0 | 6.2 | | 11.2 | | 0.3 | | 831 | 12 |
| 68.1 | 3/18/2003 | | | | 6.3 | | | | 13 | 26 | 2.4 | | 3.9 | | 0.6 | | 240 | 4 |
| 68.1 | 6/17/2003 | | | | 6.3 | | | | 27 | 23 | 2.9 | | 4.3 | | 0.3 | | 288 | 4 |
| 68.1 | 9/10/2003 | | | | 7.0 | | | | 38 | 0 | 2.8 | | 5.0 | | 0.3 | | 389 | 4 |
| 68.1 | 10/31/2003 | | | | 7.0 | | | | 36 | 0 | 2.8 | | 5.9 | | 0.3 | | 380 | 10 |
| 68.1 | 3/23/2004 | | | | 6.7 | | | | 20 | 24 | 2.2 | | 5.4 | | 1.0 | | 237 | 14 |
| 68.1 | 6/16/2004 | | | | 6.9 | | | | 34 | 16 | 4.5 | | 6.0 | | 0.3 | | 352 | 6 |
| 68.1 | 8/17/2004 | | | | 6.6 | | | | 44 | -2 | 2.3 | | 4.8 | | 0.3 | | 505 | 2 |

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|-----------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 68.1 | 11/3/2004 | | | | 6.8 | | | | 37 | 12 | 1.6 | | 7.0 | | 0.3 | | 446 | 4 |
| Min | | | 3200 | | 5.4 | | | | 10 | -2 | 0.4 | | 3.9 | | 0.3 | | 237 | 2 |
| Max | | | 5200 | | 7.0 | | | | 44 | 61 | 12.4 | | 15.8 | | 1.3 | | 873 | 16 |
| Avg | | | 3950 | | 6.4 | | | | 26 | 10 | 2.6 | | 7.7 | | 0.4 | | 456 | 5 |
| Range | | | 2000 | | 1.6 | | | | 34 | 62 | 12.0 | | 11.9 | | 1.0 | | 636 | 14 |

Description: Seaton Creek; Farthest downstream sampling point before confluence with Slippery Rock Creek; Essentially the same as sampling point 68

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)

Erico Bridge Water Quality Database

| Sample Point | Date | Method of Flow Meas. | Flow (gpm) | Field pH | Lab pH | Spec. cond. (umhos/cm) | Field Temp (C) | Alk. (F) (mg/L) | Alk. (L) (mg/L) | Acid. (mg/L) | Fe (mg/L) | D. Fe (mg/L) | Mn (mg/L) | D. Mn (mg/L) | Al (mg/L) | D. Al (mg/L) | Sulfate (mg/L) | Susp. Solids (mg/L) |
|--------------|------------|----------------------|------------|----------|--------|------------------------|----------------|-----------------|-----------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|----------------|---------------------|
| 65 | 10/20/1994 | | | | 5.9 | | | | 12 | 0 | 0.5 | | 1.1 | | 0.5 | | 177 | 3 |
| 65 | 5/4/1995 | | | | 6.2 | | | | 13 | 24 | 1.1 | | 4.7 | | 0.5 | | 153 | 16 |
| 65 | 8/29/1995 | | | | 6.2 | | | | 28 | 7 | 0.4 | | 7.2 | | 0.5 | | 408 | 3 |
| 65 | 9/27/1995 | | | | 6.5 | | | | 24 | 0 | 0.6 | | 6.2 | | 0.5 | | 404 | 3 |
| 65 | 10/12/1995 | | | | 6.2 | | | | 28 | 9 | 0.8 | | 6.2 | | 0.2 | | 347 | 8 |
| 65 | 12/12/1995 | | | | 6.1 | | | | 22 | 12 | 1.1 | | 4.4 | | 0.5 | | 273 | 3 |
| 65 | 8/15/1996 | | | | 6.0 | | | | 22 | 4 | 1.0 | | 5.3 | | 0.3 | | 278 | 2 |
| 65 | 10/15/1997 | Measured | 3200 | | 6.5 | | | | 32 | 0 | 0.8 | | 5.9 | | 0.3 | | 358 | 4 |
| 65 | 12/11/1997 | | | | 5.8 | | | | 15 | 7 | 0.4 | | 2.5 | | 0.3 | | 165 | 2 |
| 65 | 11/23/1999 | | | | 6.2 | | | | 17 | 0 | 0.6 | | 0.8 | | 0.3 | | 168 | 2 |
| 65 | 7/5/2000 | | | | 6.5 | | | | 24 | 0 | 2.1 | | 0.6 | | 0.3 | | 90 | 2 |
| 65 | 2/22/2001 | | | | 6.3 | | | | 14 | 0 | 0.3 | | 0.5 | | 0.3 | | 95 | 4 |
| 65 | 4/18/2001 | | | | 6.2 | | | | 11 | 0 | 0.4 | | 0.3 | | 0.3 | | 69 | 2 |
| 65 | 2/21/2002 | | | | 6.1 | | | | 14 | 37 | 0.4 | | 0.9 | | 0.3 | | 101 | 2 |
| 65 | 1/7/2003 | | | | 6.2 | | | | 11 | 37 | 0.5 | | 0.7 | | 0.3 | | 73 | 2 |
| 65 | 4/30/2003 | | | | 6.6 | | | | 17 | 0 | 1.2 | | 1.2 | | 0.3 | | 143 | 2 |
| 65 | 7/29/2003 | | | | 6.3 | | | | 22 | 30 | 0.8 | | 0.6 | | 0.3 | | 104 | 2 |
| Min | | | 3200 | | 5.8 | | | | 11 | 0 | 0.3 | | 0.3 | | 0.2 | | 69 | 2 |
| Max | | | 3200 | | 6.6 | | | | 32 | 37 | 2.1 | | 7.2 | | 0.5 | | 408 | 16 |
| Avg | | | 3200 | | 6.2 | | | | 19 | 10 | 0.8 | | 2.9 | | 0.3 | | 200 | 3 |
| Range | | | 0 | | 0.8 | | | | 21 | 37 | 1.8 | | 6.9 | | 0.3 | | 339 | 15 |

Description: Slippery Rock Creek; Main branch; Located behind the Boyers Sportsmen's Building; Final downstream sampling point of Slippery Rock Creek Headwaters Target Area Comprehensive Mine Reclamation Strategy

For laboratory reported values that were noted as less than the minimum detection limit for that parameter, one half of the minimum detection limit was entered

Tuesday, May 24, 2005

Erico Bridge (610102)