ACTIVE MINING OPERATIONS

| <u>Operator</u> | Location | Permit No. |
|----------------------------------|--|------------------------|
| Union Clay Company | Pike Township North of Bridgeport (Area X) | 4572BSM10 & 4574SM2 |
| North American Refractories Co. | Bloom Township One half mile west of Greenwood Road | 4573BSM2 |
| J. H. France Refractories Co. | Bloom Township Adjacent to Korb Mine (Area XLVI) | 4571BSM9 |
| Harbison Walker Refractories Co. | Bloom Township Adjacent to Korb Mine (Area LXVI) | 4570BSM6 |
| Thomas Bros. Coal Co. | Union Township Hilltop south of Rockton | 3266BSM125 |
| Thomas Bros. Coal Co. | Brady & Bloom Townships Southwest of Chestnut Grove | 4570BSM7 |
| Clearfield Clay Company | Brady Township Southeast of Luthersburg (Adjacent to Area XXXII) | 4572BSM11 |
| J. H. France Refractories Co. | Union Township Holly∙#1 Trac† (Area XXIX) | 3269BSM16 |
| Benjamin Coal Company | Bloom Township Chestnut Grove (Adjacent to Area XLI) | 4570BSM2 |
| Hepburnia Coal Company | Penn Township East of Hepburnia (Area XX) | 4570BSM5 |
| North American Refractories Co. | Bloom Township Greenville | 4571BSM17 |

INITIAL SAMPLING LOCATIONS

| Sampling Point | Location |
|----------------|---|
| 1 | Anderson Creek at Curwensville |
| 2 | Unnamed tributary to Anderson Creek 1/4 mile west of Curwensville |
| 3 | Mouth of Kratzer Run, a tributary of Anderson Creek |
| 3A | Mouth of Bilger Run, a tributary to Kratzer Run |
| 3A-1 | Bilger Run just above confluence of Fenton Run |
| 3A-2 | Mouth of Fenton Run, a tributary of Bilger Run |
| 3A - 3 | Unnamed tributary of Fenton Run, which enters Fenton Run about 1 mile upstream of mouth |
| 3A-4 | Unnamed tributary of Fenton Run; which enters Fenton Run about 1.6 miles upstream of mouth |
| 3A-5 | Fenton Run just upstream of confluence of 3A-4 |
| 3A-6 | Bilger Run just upstream of confluence of 3A-7 |
| 3A-7 | Mouth of Hughey Run, a tributary of Bilger Run |
| 3B | Unnamed tributary to Kratzer Run, 2.1 miles upstream of mouth of Kratzer Run |
| 3C | Mouth of unnamed tributary of Kratzer Run at Stronach |
| 3D | Unnamed tributary to Kratzer Run, just north of Grampian |
| 3E | Unnamed tributary to Kratzer Run, north of Hepburnia |
| 3F | Kratzer Run upstream of entry of 3E |

INITIAL SAMPLING LOCATIONS (CONTD.)

| Sampling Point | Location |
|----------------|--|
| 3G | Unnamed tributary of Kratzer Run, north of Hepburnia |
| ЗН | Unnamed tributary of Kratzer Run, at Hepburnia |
| 31 | Kratzer Run upstream from 3H |
| 3J | Settling pond, no direct outlet to stream, some seepage |
| 4 | Unnamed tributary to Anderson Creek |
| 5 | Mouth of Bear Run, a tributary to Anderson Creek |
| б | Mouth of Irvin Branch, a tributary to Anderson Creek |
| 7 | Unnamed tributary of Anderson Creek |
| 8 | Unnamed tributary of Anderson Creek |
| 9 | Unnamed tributary of Anderson Creek |
| 10 | Unnamed tributary of Anderson Creek |
| 11 | Mouth of Panther Run, a tributary of Anderson Creek |
| 12 | Mouth of Little Anderson Creek, a tributary of Anderson Creek |
| 12A | Mouth of Rock Run, a tributary of Little Anderson Creek |
| 12B | Unnamed tributary of Little Anderson Creek |
| 120 | Unnamed tributary of Little Anderson Creek |
| 12D | Unnamed tributary of Little Anderson Creek |
| 12E | Little Anderson Creek upstream from entry of 12F |
| 12F | Unnamed tributary of Little Anderson Creek |

Exhibit No. 4 Page 3 of 3

INITIAL SAMPLING LOCATIONS (CONTD.)

| Sampling Point | Location |
|----------------|---|
| 12G | Little Anderson Creek upstream of 12H |
| 12H | Unnamed tributary of Little Anderson Creek |
| 121 | Underground Stream entering Little Anderson Creek |
| 13 | Unnamed tributary of Anderson Creek |
| 14 | Unnamed tributary of Anderson Creek |
| 15 | Unnamed tributary of Anderson Creek |
| 16 | Unnamed tributary of Anderson Creek |
| 17 | Unnamed tributary of Anderson Creek |
| 18 | Anderson Creek below dam of DuBois Reservoir |
| 19 | Mouth of Montgomery Run, a tributary of Anderson Creek |
| 20 | Mouth of Dressler Run, a tributary of Anderson Creek |
| 21 | Unnamed tributary into DuBois Reservoir |
| 22 | Anderson Creek at ingress to DuBois Reservoi |
| 23 | Mouth of Stoney Run, a tributary to Anderson Creek |

| SULFATE Mg/L | 170 | 42 | 150 | 17 | 170 | 110 | 270 | 256 | 18 | 57 | 16 | 17 | 91 | 30 | 155 | 17 | 96 |
|-----------------------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|--|--|---|
| FERROUS IRON Mg/L | 0.06 | 0.02 | 0.10 | 0.02 | 0.06 | 0.02 | 0.18 | 0.20 | 0.03 | 0.02 | 0.02 | 0.02 | 0.06 | 0.02 | 5.20 | 0.02 | 0.02 |
| TOTAL IRON Lb/Day | 45.30 | 62.29 | 0.78 | 0.78 | 3.75 | 37.86 | 9.16 | 10.42 | 0.72 | 1.29 | 12.22 | 1.73 | 0.15 | 0.28 | 290.21 | 24.16 | 0.08 |
| TOTAL IRON Mg/L | 0.36 | 0.33 | 0.36 | 0.09 | 0.29 | 0.39 | 8.50 | 0.69 | 1.00 | 0.20 | 2.36 | 0.20 | 0.63 | 0.26 | 35.00 | 1.60 | 0.54 |
| ACIDITY Lb./Day | 3,523 | 4,719 | 65 | 43 | 91 | 1,068 | 111 | 2,295 | 14 | 19 | 104 | 52 | L | 0 | 549 | 0 | М |
| ACIDITY Mg/L | 28 | 25 | 30 | ß | 7 | 6 | 103 | 152 | 20 | м | 20 | Q | 30 | 0 | 80 | 0 | 20 |
| Нd | 4.3 | 4.6 | 4.3 | 5.2 | 4.8 | 4.7 | 4.3 | 4.0 | 5.4 | 4.7 | 5.7 | 5.3 | 5.6 | 5.2 | 5.7 | 6.0 | 5.4 |
| FLOW G.P.M. | 10,473 | 15,709 | 180 | 718 | 1,077 | 8,079 | 06 | 1,257 | 60 | 539 | 431 | 718 | 19 | 06 | 571 | 1,257 | 13 |
| SAMPL I NG PO I NT | | - | 5 | 7 | М | м | ЗА | ЗA | 3B | 3B | 30 | 30 | 3D | 3D | 3E | 3E | 3F |
| SAMPLE NO. | | - | 2 | 7 | Μ | M | 4 | 4 | Ŀ | Ŋ | 9 | 9 | 7 | 7 | ω | ω | 6 |
| | SAMPLING FLOW ACIDITY ACIDITY TOTAL IRON TOTAL IRON FERROUS IRON POINT G.P.M. PH Mg/L Lb./Day Mg/L Lb/Day Mg/L | SAMPLINGFLOWACIDITYACIDITYTOTAL IRONTOTAL IRONFERROUS IRONPOINTG.P.M.PHMg/LLb/DayMg/LMg/L110,4734.3283,5230.3645.300.06 | SAMPLING FLOW ACIDITY ACIDITY TOTAL IRON TOTAL IRON FERROUS IRON POINT G.P.M. pH Mg/L Lb./Day Mg/L Lb/Day Mg/L 1 10,473 4.3 28 3,523 0.36 45.30 0.06 1 15,709 4.6 25 4,719 0.33 62.29 0.02 | SAMPLING FLOW ACIDITY ACIDITY TOTAL IRON TOTAL IRON FERROUS IRON POINT G.P.M. PH Mg/L Lb./Day Mg/L Lb/Day Mg/L 1 10,473 4.3 28 3,523 0.36 45.30 0.06 1 15,709 4.6 25 4,719 0.33 62.29 0.02 2 180 4.3 30 65 0.36 0.78 0.10 | SAMPLING FLOW ACIDITY | SAMPLING FLOW ACIDITY ACIDITY ACIDITY ACIDITY ACIDITY ACIDITY ACIDITY MG/L Lb/Day Mg/L Mg/L 1 10,473 4.3 28 3,523 0.36 45.30 0.066 1 10,473 4.5 28 3,523 0.36 45.30 0.06 1 15,709 4.6 25 4,719 0.33 62.29 0.06 2 180 4.5 30 65 0.36 0.78 0.02 2 718 5.2 5 43 0.36 0.78 0.00 3 1,077 4.8 7 91 0.29 3.75 0.06 | SAMPLING FLOW ACIDITY MG/L Lb/Day MG/L | SAMPLING FLOW FLOW ACIDITY ACID ACID ACID | SAMPLING FLOW PH ACIDITY ACIDITY TOTAL IRON TOTAL IRON TERROUS IRON 1 10,473 4.3 28 3,523 0.36 45.30 0.06 1 10,473 4.5 28 3,523 0.36 45.30 0.06 1 15,709 4.6 25 4,719 0.33 62.29 0.06 2 180 4.6 25 4,719 0.35 62.29 0.02 2 180 4.6 25 4,719 0.35 62.29 0.02 2 180 4.16 7 0.35 0.36 0.02 0.02 3 1,077 4.8 7 91 0.29 3.75 0.06 3 8,079 4.7 11 1,068 0.39 37.86 0.06 3 90 4.3 103 111 8.50 9.16 0.18 3 1,257 4.0 162 2.2 | FLOW G.P.M.ACIDITY Mg/LACIDITY LD./DayACIDITY Mg/LACIDITY LD./DayACIDI RON Mg/LFERROUS IRON Mg/L10,4734.3283,5230.3645.300.0615,7094.6254,7190.3562.290.0615,7094.6254,7190.3562.290.021804.530650.360.780.027185.25430.090.780.021,0774.87910.293.750.068,0794.7111,0680.393.780.05904.31031118.509.160.181,2574.01522,2950.6910.420.201,2574.01522,2950.6910.420.03605.420141.000.720.03 | SAMPLING FLOW G.P.M. ACIDITY POINT ACIDITY MG/L ACIDITY Lb./Day ACIDITY MG/L TOTAL IRON TOTAL IRON FERROUS IRON 1 10,473 4.3 28 3,523 0.36 45.30 0.06 2 15,709 4.6 25 4,719 0.35 62.29 0.06 2 180 4.5 30 65 0.35 0.78 0.00 2 1107 4.6 25 4,719 0.33 62.29 0.00 3 1,077 4.8 7 91 0.35 0.78 0.00 3 1,077 4.8 7 91 0.29 37.86 0.05 3 8,079 4.7 11 1,068 0.39 37.86 0.05 3 1,077 4.0 103 111 8.50 9.16 0.18 3 1,257 4.0 103 111 8.50 9.16 0.18 3 1,257 | SAMPLING FLOW G. P.M. ACIDITY Mg/L ACIDITY Lb./Day MG/L Lb./Day Mg/L TOTAL IRON FERROUS IRON 1 10,473 4.3 28 3,523 0.36 45.30 0.06 1 10,473 4.5 28 3,523 0.36 45.30 0.06 2 180 4.6 25 4,719 0.33 62.29 0.06 2 180 4.3 30 65 0.36 0.78 0.02 2 1,077 4.8 7 91 0.29 0.78 0.02 3 1,077 4.8 7 91 0.29 3.786 0.06 3 1,077 4.8 7 91 0.29 3.786 0.06 3 1,077 4.8 7 91 0.29 0.16 0.18 3 1,077 4.9 1 0.106 0.29 0.16 0.18 3 1,277 103 110 | SAMPLING FLOW G.P.M. ACIDITY Mg/L ACIDITY Lb./Day ACIDITY Mg/L CUTAL IRON Lb/Day TOTAL IRON Mg/L TOTAL IRON Lb/Day FERROUS IRON Mg/L 1 10,473 4.3 28 3,533 0.36 45.30 0.06 2 19 4.5 28 3,733 0.35 62.29 0.06 2 190 4.5 30 65 0.35 0.78 0.00 2 1107 4.6 7 91 0.39 0.78 0.10 3 1,077 4.8 7 91 0.29 3.75 0.06 3 1,077 4.8 7 91 0.29 3.75 0.02 3 1,077 4.8 7 91 0.29 3.75 0.06 3 1,077 4.8 7 91 0.29 0.16 0.02 3 1,257 2 2 2 2 0.39 0.16 0.02 3 | SAMELING FLOW OINT ACIDITY (2,P.W.) ACIDITY Mg/L LUDIAN (b,Day Mg/L FERBOUS IRON (b,Day Mg/L FERBOUS IRON Mg/L 1 10,473 4.3 28 3,523 0.35 4,5.30 0.065 1 15,709 4.6 25 4,719 0.35 62.29 0.026 2 180 4.5 30 65 0.36 0.78 0.02 2 180 4.5 30 65 0.35 6.239 0.05 2 110 4.3 30 65 0.36 0.10 0.10 3 1,077 4.8 7 91 0.29 3.78 0.02 3 1,077 4.1 11 1,068 0.39 3.786 0.03 3A 1,257 4.71 1 1,068 0.39 0.16 0.16 3A 1,257 4.7 1 1 0.29 3.786 0.05 3A 1,257 2,295 0 | SAMPLING FLOW G.P.M. ACIDITY Mg/L LACIDITY Lb./Day Mg/L Lb./Day Lb/Day TOTAL IRON TOTAL IRON TOTAL IRON REROUG IRON 1 10,473 4.3 28 5,523 0.36 45.30 0.06 1 15,709 4.6 25 4,719 0.35 62.29 0.06 2 180 4.5 30 65 0.35 0.78 0.00 2 180 4.5 30 65 0.35 0.78 0.02 3 1,077 4.8 7 91 0.39 0.78 0.02 3 1,077 4.8 7 91 0.29 0.78 0.02 3 1,077 4.8 7 91 0.29 0.76 0.02 3 1,077 4.9 11 1,068 0.29 0.26 0.02 3 1,257 4.0 11 1,068 0.29 0.26 0.20 3 <t< td=""><td>SAMPLING FLOW ACIDITY ACIDITY ACIDITY MG/L D./Day MG/L D./Day MG/L D./Day MG/L PUINT (6.P.M.) PH Mg/L (b./Day Mg/L (b./Day Mg/L MG/L PUINT (6.P.M.) PH Mg/L (b./Day Mg/L (b./Day Mg/L PUINT (1) (1) 23 28 5,23 0.36 (5.29) 0.06 2 130 4.6 25 4,719 0.33 62.29 0.00 0.06 2 130 4.1 1 0.33 62.29 0.02 0.02 3 1,077 4.8 7 91 0.29 0.10 0.02 3 1,077 4.1 1 1,068 0.33 0.02 0.02 3 1,077 4.3 07 0.29 0.33 0.02 0.02 0.02 3 1,027 11 1,068 0.2</td><td>SAMPLING FLOW ACIDITY ACIDITY ACIDITY ACIDITY DIAL IRON TUTAL IRON TUTAL IRON FEROUG IRON POINT 10,473 4.3 28 3,523 0.36 45.30 0.06 1 10,473 4.3 28 3,523 0.35 45.30 0.06 2 18 4.5 28 3,73 0.35 6.29 0.02 2 18 4.6 7 91 0.36 0.78 0.02 3 1,077 4.8 7 91 0.29 3.75 0.05 0.06 3 1,077 4.8 7 91 0.29 3.75 0.06 3 8,079 4.7 11 1,068 0.26 0.06 0.06 3 8,079 4.3 103 111 8.50 0.06 0.02 0.02 3 1,277 4.0 122 2,29 0.24 0.23 0.23</td></t<> | SAMPLING FLOW ACIDITY ACIDITY ACIDITY MG/L D./Day MG/L D./Day MG/L D./Day MG/L PUINT (6.P.M.) PH Mg/L (b./Day Mg/L (b./Day Mg/L MG/L PUINT (6.P.M.) PH Mg/L (b./Day Mg/L (b./Day Mg/L PUINT (1) (1) 23 28 5,23 0.36 (5.29) 0.06 2 130 4.6 25 4,719 0.33 62.29 0.00 0.06 2 130 4.1 1 0.33 62.29 0.02 0.02 3 1,077 4.8 7 91 0.29 0.10 0.02 3 1,077 4.1 1 1,068 0.33 0.02 0.02 3 1,077 4.3 07 0.29 0.33 0.02 0.02 0.02 3 1,027 11 1,068 0.2 | SAMPLING FLOW ACIDITY ACIDITY ACIDITY ACIDITY DIAL IRON TUTAL IRON TUTAL IRON FEROUG IRON POINT 10,473 4.3 28 3,523 0.36 45.30 0.06 1 10,473 4.3 28 3,523 0.35 45.30 0.06 2 18 4.5 28 3,73 0.35 6.29 0.02 2 18 4.6 7 91 0.36 0.78 0.02 3 1,077 4.8 7 91 0.29 3.75 0.05 0.06 3 1,077 4.8 7 91 0.29 3.75 0.06 3 8,079 4.7 11 1,068 0.26 0.06 0.06 3 8,079 4.3 103 111 8.50 0.06 0.02 0.02 3 1,277 4.0 122 2,29 0.24 0.23 0.23 |

INITIAL STREAM SAMPLES

Exhibit No. 5 Page 1 of 7

| (CONTD.) | |
|----------|--|
| SAMPLES | |
| STREAM | |
| INITIAL | |

| SAMPLE NO. | SAMPLING POINT | FLOW G.P.M. | Нq | ACIDITY Mg/L | ACIDITY Lb/Day | ACIDITY TOTAL IRON Lb/Day Mg/L | TOTAL IRON Lb/Day | FERROUS IRON Mg/L | SULFATE Mg/L |
|---------------|-------------------|----------------|-----|-----------------|-------------------|-----------------------------------|----------------------|----------------------|-----------------|
| 6 | ЗF | 231 | 5.5 | 0 | 0 | 0.23 | 0.64 | 0.03 | 52 |
| 10 | 3G | DRIED UP | | | | | | | |
| | 3G | | | | | | | | |
| 11 | 3H | - | 4.4 | 30 | ~~ | 0.36 | 0.39 | 0.03 | 106 |
| 10 | 3H | 106 | 5.2 | 4 | IJ | 0.26 | 24.93 | 0.03 | 56 |
| 12 | 3 | 82 | 5.2 | 0 | 0 | 2.20 | 2.16 | 0.06 | 82 |
| 11 | 31 | 224 | 5.3 | 4 | 11 | 0.34 | 0.92 | 0.08 | 36 |
| 13 | 3J | NO FLOW | 5.1 | 300 | 0 | 9.3 | 0 | 1.20 | 135 |
| 12 | 3J | 69 | 5.7 | 0 | 0 | 2.90 | 2.40 | 0.06 | 49 |
| 14 | 3A-3 | 299 | 5.3 | 50 | 180 | 0:23 | 0.83 | 0.03 | 67 |
| 37 | 3A-3 | 943 | 4.5 | б | 102 | 0.85 | 9.63 | 0.08 | 35 |
| 15 | 3A-4 | 808 | 5.4 | 40 | 388 | 0.72 | 6.99 | 0.06 | 20 |
| 38 | 3A-4 | 1,436 | 5.0 | 4 | 69 | 2.70 | 46.59 | 0.06 | 18 |
| 16 | 3A-5 | 385 | 5.8 | 20 | 92 | 2.06 | 9.52 | 0.08 | 12 |
| 39 | 3A-5 | 1,122 | 5.0 | 7 | 94 | 2.76 | 37.21 | 0.13 | 17 |
| 17 | 3A-6 | 75 | 4.4 | 100 | 06 | 15.30 | 13.75 | 0.60 | 145 |
| 40 | 3A-6 | 67 | 4.2 | 18 | 15 | 0.34 | 0.27 | 0.08 | 15 |

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| SAMPLE | SAMPLING POINT | FLOW M | Ţ | | ACIDITY ACIDITY | CIDITY ACIDITY TOTAL IRON | TOTAL IRON | FERROUS IRON | SULFATE |
|--------|-------------------|-----------|-----|-------|--------------------|---------------------------|------------|--------------|---------|
| | | G. P.M. | Нď | Mg/ L | LD/Uay | Mg/ L | Lb/Uay | Mg/ L | Mg/ L |
| | 3A-7 | 421 | 3.8 | 130 | 657 | 5.00 | 35.27 | 0.13 | 300 |
| | 3A7 | 898 | 5.7 | 36 | 388 | 2.76 | 29.77 | 0.06 | 156 |
| | 3A-8 | 13 | 4.5 | 30 | ſſ | 22.00 | 3.38 | 1.55 | 120 |
| | 3A8 | 45 | 4.8 | 4 | 7 | 2.26 | 1.22 | 0.03 | 15 |
| | 3A-1 | 306 | 4.2 | 42 | 154 | 0.61 | 2.24 | 0.10 | 200 |
| | 3A-1 | 1,010 | 4.0 | 28 | 340 | 5.0 | 60.67 | 0.10 | 165 |
| | 3A-2 | 539 | 4.4 | 30 | 194 | 0.26 | 1.68 | 0.02 | 33 |
| | 3A-2 | 1,047 | 4.7 | 11 | 138 | 3.60 | 45.30 | 0.12 | 17 |
| | 7 | 37 | 5.3 | 0 | 0 | 0.29 | 0.13 | 0.08 | 13 |
| | 7 | 224 | 3.6 | | 299 | 4.10 | 11.05 | 0.02 | 115 |
| | 4 | 06 | 5.1 | 40 | 43 | 0.29 | 0.31 | 0.03 | 12 |
| | 4 | 337 | 4.2 | 12 | 49 | 1.50 | 6.07 | 0.03 | 20 |
| | IJ | 224 | 4.1 | 20 | 54 | 0.54 | 1.46 | 0.10 | б |
| | Ŋ | 269 | 4.5 | 7 | 23 | 0.16 | 0.52 | 0.02 | |
| | Q | 120 | 3.6 | 20 | 43 | 0.83 | 1.19 | 0.10 | 21 |
| | Q | 898 | 5.1 | 4 | 43 | 0.12 | 1.29 | 0.02 | Ø |
| | 14 | 224 | 5.4 | С | ſ | 0.24 | 0.65 | 0.06 | 20 |

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| | SULFATE Mg/L | 23 | 19 | 16 | 148 | 120 | 13 | 12 | 1- | 13 | 16 | 12 | 105 | 44 | 40 | 16 | 78 |
|---------------------------------|----------------------|------|------|------|---------|------|------|------|-------|-------|------|------|-------|------|-------|-------|------|
| | FERROUS IRON Mg/L | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.08 | 0.03 | 0.06 | 0.02 | 0.18 | 0.02 | 2.10 | 0.20 | 0.02 | 0.02 | 0.06 |
| | TOTAL IRON Lb/Day | 0.22 | 0.62 | 8.63 | 1.80 | 1.89 | 1.68 | 1.23 | 26.06 | 9.71 | 2.12 | 0.04 | 19.04 | 7.45 | 20.92 | 24.45 | 7.31 |
| INTITAL STREAM SAMPLES (CONTU.) | TOTAL IRON Mg/L | 0.10 | 0.26 | 1.20 | 0.20 | 0.21 | 0.39 | 0.19 | 0.29 | 0.30 | 5.70 | 0.10 | 26.50 | 5.90 | 1.94 | 1.36 | 2.26 |
| ULKEAN VANI | ACIDITY Lb/Day | 0 | 10 | 50 | 0 | 180 | 13 | 0 | 0 | 129 | 14 | 7 | 144 | 15 | 0 | 0 | 0 |
| INTIAL | ACIDITY Mg/L | 0 | 4 | 7 | 0 | 20 | М | 0 | 0 | 4 | 40 | 5 | 200 | 12 | 0 | 0 | 0 |
| | Hd | 5.9 | 5.3 | 4.9 | л. 5 | 4.9 | 5.4 | 7.4 | 5.7 | 4.9 | 5.0 | 5.2 | 4.7 | 5.9 | 5.6 | 5.5 | 5.7 |
| | FLOW G.P.M. | 180 | 199 | 598 | 748 | 748 | 359 | 539 | 7,481 | 2,693 | 30 | 30 | 60 | 105 | 898 | 1,496 | 269 |
| | SAMPLING POINT | 14 | 13 | 13 | 15 | 5 | 16 | 16 | 18 | 8 | 17 | 17 | 19 | 19 | 20 | 20 | 21 |
| | SAMPLE NO. | 25 | 27 | 24 | 28 | 23 | 29 | 26 | 30 | 28 | 31 | 27 | 32 | 29 | 33 | 30 | 34 |

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| | SULFATE Mg/L | 24 | 64 | 13 | 72 | 12 | 150 | 20 | 216 | 100 | 160 | 186 | 125 | 21 | 193 | 110 | 235 | 156 |
|---------------------------------|----------------------|------|------|-------|------|------|-------|------|--------|-------|---------|---------|---------------|---------------|-------|-------|-------|-------|
| | FERROUS IRON Mg/L | 0.02 | 0.06 | 0.02 | 0.02 | 0.02 | 0.03 | 0.08 | 0.18 | 0.10 | 0.40 | 0.06 | 0.03 | 0.02 | 0.02 | 0.06 | 0.06 | 0.03 |
| | TOTAL IRON Lb/Day | 1.71 | 6.64 | 14.24 | 1.42 | 1.08 | 39.09 | 1.08 | 121.98 | 82.51 | 0 | 0 | 24.14 | 23.30 | 47.93 | 23.37 | 48.53 | 55.01 |
| INTITAL STREAM SAMPLES (CONTU.) | TOTAL IRON Mg/L | 0.34 | 2.70 | 0.44 | 2.20 | 0.50 | 5.8 | 1.80 | 2.90 | 1.70 | 20.8 | 6.76 | 1.94 | 1.20 | 5.0 | 1.30 | 1.80 | 1.36 |
| OIKEAM SAME | ACIDITY Lb/Day | 0 | 123 | 162 | 19 | 13 | 337 | ٢ | 841 | 146 | 0 | 0 | 75 | 116 | 58 | 126 | 1,618 | 1,011 |
| INTIAL | ACIDITY Mg/L | 0 | 50 | Ŋ | 30 | Q | 50 | 12 | 20 | М | 0 | 24 | Q | Q | Q | 7 | 60 | 25 |
| | Нq | 5.5 | 5.4 | 5.3 | 5.7 | 5.3 | 3.4 | 3.9 | 5.9 | 4.2 | 6.1 | 4.5 | 4.0 | 5.1 | 4.8 | 4.8 | 3.3 | 6.0 |
| | FLOW G.P.M. | 419 | 205 | 2,693 | 54 | 180 | 561 | 50 | 3,501 | 4,039 | NO FLOW | NO FLOW | 1,036 | 1,616 | 698 | 1,496 | 2,244 | 3,366 |
| | SAMPL ING PO I NT | 21 | 22 | 22 | 23 | 23 | 12-F | 12-F | 12-E | 12-E | 3A-9 | 3A-9 | 12 - H | 12 - H | 12-6 | 12-G | 12-A | 12-A |
| | SAMPLE NO. | 23 | 35 | 32 | 36 | 33 | 37 | 15 | 38 | 14 | 39 | 13 | 40 | 16 | 41 | 17 | 42 | 18 |

Exhibit No. 5 Page 5 of 7

| | SULFATE Mg/L | 225 | 190 | 205 | 06 | 380 | 275 | 165 | 145 | 130 | 41 | 105 | 13 | | | ω |
|---------------------------------|----------------------|---------------|-------------------|-------|------|---------|--------|------|-------|------|------|------|------|----------|----|------|
| | FERROUS IRON Mg/L | 0.10 | 0.08 | 1.55 | 0.03 | 0.73 | 0.80 | 0.06 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | | | 0.06 |
| | TOTAL IRON Lb/Day | 320.47 | 148.84 | 95.82 | 5.30 | .208.20 | 355.18 | 1.02 | 40.44 | 0.43 | 2.33 | 0.34 | 0.61 | | | 0.22 |
| INITIAL STREAM SAMPLES (CONTD.) | TOTAL IRON Mg/L | 20.8 | 6.90 | 80 | 5.90 | 27.80 | 24.70 | 2:20 | 3.0 | 0.16 | 0.27 | 0.10 | 0.09 | | | 0.18 |
| STREAM SAMP | ACIDITY Lb/Day | 1,541 | 1,596 | 132 | 63 | 2,397 | 5,896 | 14 | 1,672 | 105 | 224 | 20 | 47 | | | 7 |
| INITIAL | ACIDITY Mg/L | 100 | 74 | 110 | 70 | 320 | 410 | 30 | 124 | 39 | 26 | Q | 7 | | | Q |
| | Hd | 3.1 | 3.3 | М. | 3.6 | 2.9 | 3.0 | 3.6 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | | | 4.4 |
| | FLOW G.P.M. | 1,282 | 1,795 | 100 | 75 | 623 | 1,197 | 38 | 1,122 | 224 | 718 | 281 | 561 | DRIED UP | | 100 |
| | SAMPL ING PO INT | 12 - B | 12 - B | 12-1 | 12-1 | 12-C | 12-C | 12-D | 12-D | ω | ω | б | 6 | 10 | 10 | 11 |
| | SAMPLE NO. | 43 | 19 | 44 | 20 | 45 | 21 | 46 | 22 | 47 | 46 | 48 | 47 | 49 | | 50 |

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| SULFATE Mg/L | 10 | 155 | 130 |
|----------------------|------|------|-------|
| FERROUS IRON Mg/L | 0.02 | 0.06 | 0.03 |
| TOTAL IRON Lb/Day | 0.78 | 5.17 | 37.96 |
| TOTAL IRON Mg/L | 0.09 | 3.60 | 4.4 |
| ACIDITY Lb/Day | 138 | 57 | 207 |
| ACIDITY Mg/L | 16 | 40 | 24 |
| Hď | 4.6 | 3.3 | 3.7 |
| FLOW G.P.M. | 718 | 120 | 718 |
| SAMPLING POINT | | 12 | 12 |
| SAMPLE NO. | 48 | 51 | 49 |

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