Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C40	SO-C41	SO-C41	SO-C41	SO-C41	SO-C42	SO-C42	SO-C42	SO-C42	SO-C50
Sample Depth (Feet):		2-4	0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-4	0-0.5
Date Collected:	Units	5/15/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	5/13/2024
Semivolatile Organic Compounds											
1-Methylnaphthalene	mg/kg	0.087 U	0.11 U	0.1 U	0.11 U	0.093 U	0.11 U	0.098 U	0.1 U	0.097 U	0.13 U
2-Methylnaphthalene	mg/kg	0.087 U	0.11 U	0.1 U	0.11 U	0.093 U	0.11 U	0.098 U	0.1 U	0.097 U	0.13 U
Acenaphthene	mg/kg	0.087 U	0.11 U	0.1 U	0.11 U	0.093 U	0.11 U	0.098 U	**0.038 J**	0.097 U	0.13 U
Acenaphthylene	mg/kg	0.087 U	0.11 U	**0.096 J**	0.11 U	0.093 U	0.11 U	**0.046 J**	**0.5**	0.097 U	0.13 U
Anthracene	mg/kg	0.087 U	0.11 U	**0.098 J**	**0.12**	0.093 U	**0.037 J**	**0.054 J**	**1**	0.097 U	0.13 U
Benzo(a)anthracene	mg/kg	0.087 U	0.11 U	**0.048 J**	**0.076 J**	0.093 U	0.11 U	0.098 U	**0.22**	0.097 U	0.13 U
Benzo(a)pyrene	mg/kg	0.087 U	**0.056 J**	**0.18**	**0.053 J**	0.093 U	0.11 U	**0.055 J**	**1.1**	0.097 U	0.13 U
Benzo(b)fluoranthene	mg/kg	0.087 U	**0.079 J**	**0.21**	**0.035 J**	0.093 U	**0.074 J**	**0.093 J**	**0.79**	0.097 U	0.13 U
Benzo(g,h,i)perylene	mg/kg	0.087 U	**0.16**	**0.55**	**0.045 J**	0.093 U	**0.085 J**	**0.16**	**1.7**	0.097 U	0.13 U
Benzo(k)fluoranthene	mg/kg	0.087 U	0.11 U	**0.081 J**	0.11 U	0.093 U	0.11 U	0.098 U	**0.18**	0.097 U	0.13 U
Chrysene	mg/kg	0.087 U	**0.081 J**	**0.068 J**	**0.096 J**	0.093 U	**0.11**	**0.081 J**	**0.21**	0.097 U	0.13 U
Dibenzo(a,h)anthracene	mg/kg	0.087 U	0.11 U	**0.097 J**	0.11 U	0.093 U	0.11 U	0.098 U	**0.36**	0.097 U	0.13 U
Fluoranthene	mg/kg	0.087 U	**0.051 J**	**0.048 J**	0.11 U	0.093 U	**0.03 J**	**0.04 J**	**0.13**	0.097 U	0.13 U
Fluorene	mg/kg	0.087 U	0.11 U	0.1 U	0.11 U	0.093 U	0.11 U	0.098 U	**0.08 J**	0.097 U	0.13 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.087 U	**0.1 J**	**0.36**	0.11 U	0.093 U	**0.054 J**	**0.12**	**1.5**	0.097 U	0.13 U
Naphthalene	mg/kg	0.087 U	0.11 U	0.1 U	0.11 U	0.093 U	0.11 U	0.098 U	**0.078 J**	0.097 U	0.13 U
Phenanthrene	mg/kg	0.087 U	0.11 U	0.1 U	**0.055 J**	0.093 U	0.11 U	0.098 U	**0.085 J**	0.097 U	0.13 U
Pyrene	mg/kg	0.087 U	**0.039 J**	**0.054 J**	0.11 U	0.093 U	0.11 U	**0.043 J**	**0.11**	0.097 U	0.13 U
Total PAHs-16 (ND=0)	mg/kg	ND	**0.566**	**1.89**	**0.48**	ND	**0.39**	**0.692**	**8.08**	ND	ND
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.696**	**1.06**	**2.09**	**0.975**	**0.744**	**0.94**	**1.04**	**8.08**	**0.776**	**1.04**
BaP-TE (ND=0)	mg/kg	ND	**0.074**	**0.34**	**0.0642**	ND	**0.0129**	**0.0764**	**1.71**	ND	ND
BaP-TE (ND=1/2 DL)	mg/kg	**0.101**	**0.135**	**0.34**	**0.125**	**0.107**	**0.129**	**0.131**	**1.71**	**0.112**	**0.15**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	ng/kg	2.48 U	**889 J**	**259**	**699**	1.84 UX	**183**	**3,850**	**110,000 D**	**60.0**	**35.3**
1,2,3,4,6,7,8-HpCDF	ng/kg	1.07 U	**212 J**	**70.6**	**199**	1.13 U	**56.7**	**733**	**23,100 D**	**7.55 J**	**9.49 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	1.51 U	**21.2**	**6.02 J**	**18.4**	1.37 U	**4.19 J**	**70.9**	**1,460**	1.24 U	0.427 UX
1,2,3,4,7,8-HxCDD	ng/kg	2.94 U	**3.84 J**	1.48 U	2.11 UX	1.21 U	1.65 U	**15.1**	**139**	1.15 U	1.63 U
1,2,3,4,7,8-HxCDF	ng/kg	1.71 U	**23.2**	**6.36 J**	**22.6**	0.562 U	**4.10 J**	**89.0**	**1,820**	**1.03 J**	0.779 UX
1,2,3,6,7,8-HxCDD	ng/kg	2.64 U	**27.1**	**8.23 J**	**20.4**	1.20 U	**4.94 J**	**89.3**	**1,770**	1.19 U	1.33 UX
1,2,3,6,7,8-HxCDF	ng/kg	1.84 U	**4.68 J**	**1.36 J**	**4.32 J**	0.543 U	1.07 U	**16.5**	**296**	0.661 U	0.488 UX
1,2,3,7,8,9-HxCDD	ng/kg	2.90 U	**7.21 J**	**2.34 J**	**4.73 J**	1.28 U	1.87 U	**20.4**	**335**	1.33 U	**1.14 J**
1,2,3,7,8,9-HxCDF	ng/kg	2.57 U	**2.95 J**	**1.04 J**	**2.70 J**	1.05 U	2.00 U	**7.60 J**	**123**	1.03 U	0.748 U
1,2,3,7,8-PeCDD	ng/kg	1.65 U	**1.89 J**	0.857 U	1.19 U	1.18 U	0.760 U	3.07 UX	**23.5**	0.766 U	0.784 U
1,2,3,7,8-PeCDF	ng/kg	1.16 U	**1.40 J**	1.15 U	1.34 UX	0.531 U	0.984 U	**4.76 J**	**22.1**	0.441 U	0.659 U
2,3,4,6,7,8-HxCDF	ng/kg	2.12 U	**5.91 J**	**1.37 J**	3.40 UX	0.660 U	0.569 UX	**9.63 J**	**206**	0.713 U	**0.451 J**
2,3,4,7,8-PeCDF	ng/kg	1.13 U	**3.36 J**	0.416 UX	**2.19 J**	0.466 U	**0.504 J**	**13.8**	**119**	0.378 U	0.541 U
2,3,7,8-TCDD	ng/kg	0.866 U	0.729 U	0.857 U	0.795 U	0.936 U	0.515 U	0.326 U	1.30 UX	0.397 U	0.509 U
2,3,7,8-TCDF	ng/kg	0.625 U	0.644 U	0.623 U	0.526 U	0.712 U	0.391 U	**0.689 J**	**2.37 J**	0.264 U	0.382 U
OCDD	ng/kg	10.5 UX	**11,500 J**	**4,150**	**10,200**	**25.4**	**3,060**	**59,600 D**	**1,660,000 D**	**671**	**321**
OCDF	ng/kg	3.85 U	**969 J**	**332**	**905**	**1.99 J**	**227**	**3,030**	**99,400 D**	**33.1**	**30.4**
Total HpCDD	ng/kg	2.48 U	**1,870**	**502**	**1,400**	1.84 U	**356**	**7,970**	**174,000**	**108**	**70.5**
Total HpCDF	ng/kg	1.51 U	**1,620**	**417**	**1,250**	**2.07 J**	**246**	**4,510**	**101,000**	**41.0**	**34.6**
Total HxCDD	ng/kg	2.94 U	**154**	**41.6**	**108**	**2.74 J**	**20.0**	**528**	**9,600**	**5.00 J**	**8.72 J**
Total HxCDF	ng/kg	2.57 U	**550**	**144**	**440**	1.05 U	**61.7**	**1,520**	**24,600**	**10.9 J**	**6.20 J**
Total PeCDD	ng/kg	1.65 U	**5.90 J**	3.45 UX	**5.90 J**	4.21 UX	0.760 U	**16.8**	**183**	**6.71 J**	1.14 UX
Total PeCDF	ng/kg	1.16 U	**43.1**	**11.1 J**	**39.2**	0.531 U	**0.504 J**	**143**	**1,740**	1.54 U	**4.02 J**
Total TCDD	ng/kg	0.866 U	**7.21**	**4.46**	**4.52**	**7.67**	0.515 U	**5.68**	**15.7**	**7.13**	**2.10 J**
Total TCDF	ng/kg	0.625 U	**2.00 J**	0.623 U	0.526 U	0.712 U	0.391 U	**6.11**	**70.2**	**0.779 J**	**1.57 J**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	ND	**25.4**	**6.77**	**18.6**	**0.00822**	**4.48**	**94.4**	**2,400**	**0.99**	**0.712**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**2.34**	**25.8**	**7.81**	**19.9**	**1.53**	**5.51**	**96.1**	**2,400**	**1.96**	**1.72**
Miscellaneous											
Total Organic Carbon	mg/kg	NA	**33,000**	**23,000**	**32,000**	**14,000**	**36,000**	**27,000**	**36,000**	**12,000 J**	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C50	SO-C50	SO-C50	SO-C54	SO-C54	SO-C54	SO-C54	SO-C55	SO-C55
Sample Depth (Feet):		0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1
Date Collected:	Units	5/13/2024	5/13/2024	5/13/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
2-Methylnaphthalene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Acenaphthene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Acenaphthylene	mg/kg	0.096 U	0.093 U	0.087 U	**0.091 J**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Anthracene	mg/kg	0.096 U	0.093 U	0.087 U	**0.14**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Benzo(a)anthracene	mg/kg	0.096 U	0.093 U	0.087 U	**0.052 J**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Benzo(a)pyrene	mg/kg	0.096 U	0.093 U	0.087 U	**0.12**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Benzo(b)fluoranthene	mg/kg	0.096 U	0.093 U	0.087 U	**0.17**	**0.034 J**	0.09 U **[0.031 J]**	0.087 U	0.095 U	0.095 U
Benzo(g,h,i)perylene	mg/kg	0.096 U	0.093 U	0.087 U	**0.27**	**0.052 J**	0.09 U **[0.047 J]**	0.087 U	**0.033 J**	**0.064 J**
Benzo(k)fluoranthene	mg/kg	0.096 U	0.093 U	0.087 U	**0.065 J**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Chrysene	mg/kg	0.096 U	0.093 U	0.087 U	**0.12**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Dibenzo(a,h)anthracene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Fluoranthene	mg/kg	0.096 U	0.093 U	0.087 U	**0.067 J**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Fluorene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.096 U	0.093 U	0.087 U	**0.2**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Naphthalene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Phenanthrene	mg/kg	0.096 U	0.093 U	0.087 U	0.1 U	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Pyrene	mg/kg	0.096 U	0.093 U	0.087 U	**0.099 J**	0.09 U	0.09 U [0.087 U]	0.087 U	0.095 U	0.095 U
Total PAHs-16 (ND=0)	mg/kg	ND	ND	ND	**1.39**	**0.086**	ND **[0.78]**	ND	**0.033**	**0.064**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.768**	**0.744**	**0.696**	**1.64**	**0.716**	**0.72 [0.687]**	**0.696**	**0.746**	**0.777**
BaP-TE (ND=0)	mg/kg	ND	ND	ND	**0.163**	**0.0034**	ND **[0.31]**	ND	ND	ND
BaP-TE (ND=1/2 DL)	mg/kg	**0.111**	**0.107**	**0.101**	**0.213**	**0.103**	**0.104 [0.0993]**	**0.101**	**0.11**	**0.11**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**13.3**	**1.07 J**	**1.13 J**	**1,580**	**126**	**80.3 J [9.87 J]**	**7.52 J**	**142**	**398**
1,2,3,4,6,7,8-HpCDF	ng/kg	**4.06 J**	0.352 UX	0.312 UX	**505**	**33.9**	**19.1 [3.72 J]**	**2.15 J**	**41.0**	**102**
1,2,3,4,7,8,9-HpCDF	ng/kg	1.16 U	0.651 U	0.384 U	**38.7**	**2.96 J**	1.81 UX [1.29 U]	1.32 U	**5.01 J**	**10.2 J**
1,2,3,4,7,8-HxCDD	ng/kg	0.774 U	0.652 U	0.434 U	**5.74 J**	1.24 U	1.44 U [0.775 U]	0.867 U	1.22 U	1.37 U
1,2,3,4,7,8-HxCDF	ng/kg	0.558 U	0.510 U	0.250 U	**36.5**	**3.03 J**	1.84 UX [0.692 U]	0.711 U	**4.70 J**	**7.60 J**
1,2,3,6,7,8-HxCDD	ng/kg	0.793 U	0.623 U	0.457 U	**39.4**	**3.66 J**	**2.34 J [0.826 U]**	0.950 U	**5.25 J**	**12.3**
1,2,3,6,7,8-HxCDF	ng/kg	0.582 U	0.522 U	0.259 U	**7.87 J**	1.01 U	1.32 U [0.705 U]	0.734 U	0.787 UX	**1.61 J**
1,2,3,7,8,9-HxCDD	ng/kg	0.773 U	0.627 U	0.449 U	**9.66 J**	1.21 U	1.47 U [0.863 U]	0.957 U	1.18 UX	2.32 UX
1,2,3,7,8,9-HxCDF	ng/kg	0.786 U	0.773 U	0.387 U	3.00 U	1.45 U	1.95 U [1.12 U]	1.01 U	0.822 UX	1.63 U
1,2,3,7,8-PeCDD	ng/kg	0.720 U	0.582 U	0.414 U	**1.46 J**	0.733 U	0.697 U [0.844 U]	**1.05 J**	0.766 U	0.377 UX
1,2,3,7,8-PeCDF	ng/kg	0.547 U	0.570 U	0.282 U	1.39 UX	0.590 U	0.694 U [0.559 U]	0.545 U	0.344 UX	0.612 U
2,3,4,6,7,8-HxCDF	ng/kg	0.632 U	0.580 U	0.278 U	**6.21 J**	**1.16 J**	1.40 U [0.725 U]	0.794 U	**0.763 J**	1.44 UX
2,3,4,7,8-PeCDF	ng/kg	0.474 U	0.472 U	0.245 U	**2.51 J**	0.478 U	0.542 U [0.460 U]	0.483 U	0.635 UX	**1.43 J**
2,3,7,8-TCDD	ng/kg	0.359 U	0.411 U	0.376 U	0.701 U	0.484 U	0.599 U [0.396 U]	0.869 U	0.523 U	0.597 U
2,3,7,8-TCDF	ng/kg	0.331 U	0.345 U	0.227 U	0.492 U	0.332 U	0.467 U [0.282 U]	0.326 U	0.364 U	0.347 U
OCDD	ng/kg	**123**	**5.78 J**	**10.4 J**	**21,500**	**1,870**	**1,640 J [108 J]**	**121**	**2,230**	**5,290**
OCDF	ng/kg	10.4 UX	0.521 UX	0.626 U	**2,040**	**132**	**75.3 J [12.1 J]**	**6.89 J**	**164**	**504**
Total HpCDD	ng/kg	**13.3**	**2.24 J**	**2.11 J**	**3,140**	**256**	**161 J [20.3 J]**	**14.2**	**313**	**829**
Total HpCDF	ng/kg	**13.6**	0.794 UX	0.537 UX	**2,240**	**168**	**90.2 J [16.6 J]**	**8.23 J**	**238**	**708**
Total HxCDD	ng/kg	**3.76 J**	0.485 UX	0.457 U	**204**	**21.6**	**14.4 [6.62 J]**	**3.64 J**	**27.6**	**56.5**
Total HxCDF	ng/kg	**3.86 J**	0.249 UX	0.387 U	**595**	**46.6**	**28.2 [3.83 J]**	**1.78 J**	**87.1**	**190**
Total PeCDD	ng/kg	0.461 UX	0.582 U	0.414 U	**9.71 J**	**3.68 J**	**4.70 J [5.86 UX]**	**1.05 J**	**2.46 J**	**2.38 J**
Total PeCDF	ng/kg	**0.878 J**	0.570 U	0.282 U	**40.5**	**3.92 J**	2.52 UX [0.559 U]	0.545 U	**7.08 J**	**12.0 J**
Total TCDD	ng/kg	**1.89 J**	**1.34 J**	0.376 U	**2.03 J**	**4.25**	**5.55 [2.63]**	**8.82**	**2.61**	**4.80**
Total TCDF	ng/kg	**1.79 J**	**1.21 J**	0.227 U	**1.12 J**	**0.353 J**	1.24 UX [0.282 U]	0.326 U	**0.487 J**	0.652 UX
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**0.211**	**0.0124**	**0.0144**	**41.1**	**3.01**	**1.74 [0.172]**	**1.19**	**3.67**	**9.42**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**1.1**	**0.825**	**0.591**	**41.6**	**3.97**	**2.99 [1.18]**	**2.02**	**4.63**	**10.3**
Miscellaneous										
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID: / Sample Depth (Feet): / Date Collected:	Units	SO-C55 1-2 5/14/2024	SO-C55 2-4 5/14/2024	SO-C56 0-0.5 5/29/2024	SO-C56 0.5-1 5/29/2024	SO-C56 1-2 5/29/2024	SO-C56 2-4 5/29/2024	SO-C57 0-0.5 5/14/2024	SO-C57 0.5-1 5/14/2024	SO-C57 1-2 5/14/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.38 U [0.092 U]	0.09 U	0.1 U	**0.036 J**	**0.027 J**	0.085 U	0.11 U	0.098 U	0.091 U
2-Methylnaphthalene	mg/kg	0.38 U [0.092 U]	0.09 U	0.1 U	**0.083 J**	**0.058 J**	**0.035 J**	0.11 U	0.098 U	0.091 U
Acenaphthene	mg/kg	0.38 U [0.092 U]	0.09 U	0.1 U	**0.037 J**	0.091 U	0.085 U	0.11 U	**0.063 J**	0.091 U
Acenaphthylene	mg/kg	**1.4 [0.55]**	**0.072 J**	**0.11**	**0.094 J**	**0.12**	0.085 U	**0.39**	0.098 U	0.091 U
Anthracene	mg/kg	**2.1 J [0.81 J]**	**0.11**	**0.12**	**0.085 J**	**0.13**	0.085 U	**0.65**	**0.045 J**	0.091 U
Benzo(a)anthracene	mg/kg	**0.43 [0.13]**	0.09 U	**0.073 J**	**0.047 J**	**0.06 J**	0.085 U	**0.36**	**0.055 J**	0.091 U
Benzo(a)pyrene	mg/kg	**2.2 J [0.76 J]**	**0.2**	**0.21**	**0.089 J**	**0.083 J**	0.085 U	**1.4**	**0.062 J**	0.091 U
Benzo(b)fluoranthene	mg/kg	**2 J [0.66 J]**	**0.16**	**0.22**	**0.13**	**0.16**	0.085 U	**2.2**	**0.13**	0.091 U
Benzo(g,h,i)perylene	mg/kg	**6.3 J [2.5 J]**	**0.42**	**0.53**	**0.35**	**0.6**	0.085 U	**2.4**	**0.072 J**	0.091 U
Benzo(k)fluoranthene	mg/kg	**0.68 [0.2]**	**0.079 J**	**0.059 J**	**0.044 J**	**0.055 J**	0.085 U	**0.79**	**0.047 J**	0.091 U
Chrysene	mg/kg	**0.72 [0.19]**	**0.066 J**	**0.31**	**0.1**	**0.1**	0.085 U	**1.9**	**0.11**	0.091 U
Dibenzo(a,h)anthracene	mg/kg	**0.84 [0.32]**	**0.058 J**	**0.072 J**	0.098 U	**0.072 J**	0.085 U	**0.49**	0.098 U	0.091 U
Fluoranthene	mg/kg	**0.8 [0.24]**	**0.04 J**	**0.077 J**	**0.062 J**	**0.056 J**	0.085 U	**0.73**	**0.23**	**0.031 J**
Fluorene	mg/kg	**0.15 J [0.074 J]**	0.09 U	**0.031 J**	**0.031 J**	**0.026 J**	0.085 U	**0.05 J**	**0.039 J**	0.091 U
Indeno(1,2,3-cd)pyrene	mg/kg	**3.9 J [1.6 J]**	**0.25**	**0.31**	**0.24**	**0.32**	0.085 U	**1.8**	**0.058 J**	0.091 U
Naphthalene	mg/kg	0.38 U [0.033 J]	0.09 U	**0.12**	**0.75**	**0.47**	**0.16**	**0.051 J**	0.098 U	0.091 U
Phenanthrene	mg/kg	**0.19 J [0.074 J]**	0.09 U	**0.049 J**	**0.064 J**	**0.031 J**	0.085 U	**0.13**	**0.18**	**0.032 J**
Pyrene	mg/kg	**1.1 [0.31]**	**0.056 J**	**0.095 J**	**0.062 J**	**0.076 J**	0.085 U	**1.1**	**0.22**	0.091 U
Total PAHs-16 (ND=0)	mg/kg	**22.8 [8.45]**	**1.51**	**2.39**	**2.19**	**2.36**	**0.16**	**14.4**	**1.31**	**0.063**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**23.2 [8.5]**	**1.74**	**2.44**	**2.23**	**2.4**	**0.798**	**14.5**	**1.46**	**0.7**
BaP-TE (ND=0)	mg/kg	**3.68 [1.32]**	**0.3**	**0.343**	**0.131**	**0.21**	ND	**2.34**	**0.0869**	ND
BaP-TE (ND=1/2 DL)	mg/kg	**3.68 [1.32]**	**0.304**	**0.343**	**0.18**	**0.21**	**0.0982**	**2.34**	**0.136**	**0.105**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**28,800 D [25,800 D]**	**56.1**	**14,500 D**	**2,020**	**999**	**16.3**	**384**	**74.9**	**7.62 J**
1,2,3,4,6,7,8-HpCDF	ng/kg	**7,040 J [6,500 J]**	**16.5**	**4,500**	**525**	**264**	3.78 UX	**111**	**22.3**	**2.24 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	**448 [370]**	1.29 UX	**324**	**39.7**	**23.1**	1.56 U	**9.08 J**	1.79 UX	0.531 U
1,2,3,4,7,8-HxCDD	ng/kg	**32.1 [25.7]**	1.13 U	**39.0**	**6.34 J**	**3.32 J**	1.39 U	**1.96 J**	0.803 U	0.575 U
1,2,3,4,7,8-HxCDF	ng/kg	**152 [100]**	1.02 U	**367**	**36.9**	**22.4**	0.624 U	**7.79 J**	**1.56 J**	0.502 U
1,2,3,6,7,8-HxCDD	ng/kg	**777 [658]**	**2.40 J**	**357**	**49.4**	**24.7**	1.59 U	**10.9 J**	**2.95 J**	0.598 U
1,2,3,6,7,8-HxCDF	ng/kg	**28.0 [19.2]**	1.08 U	**85.1**	**6.67 J**	**5.09 J**	0.640 U	**2.07 J**	0.603 U	0.504 U
1,2,3,7,8,9-HxCDD	ng/kg	**90.8 [83.2]**	1.15 U	**77.2**	**12.3**	5.25 UX	1.47 U	**2.05 J**	**0.679 J**	0.563 U
1,2,3,7,8,9-HxCDF	ng/kg	8.05 UX [10.0 U]	1.51 U	**57.6**	**5.48 J**	**4.24 J**	1.03 U	1.37 U	0.863 U	0.642 U
1,2,3,7,8-PeCDD	ng/kg	**7.39 J [5.65 J]**	0.792 U	**10.3 J**	1.36 UX	**0.818 J**	1.18 U	**0.717 J**	0.435 U	0.323 U
1,2,3,7,8-PeCDF	ng/kg	**3.26 J [1.16 UX]**	0.642 U	**18.6**	**2.42 J**	**1.50 J**	0.644 U	0.608 UX	0.379 U	0.333 U
2,3,4,6,7,8-HxCDF	ng/kg	**23.0 [9.19 J]**	1.14 U	**55.3**	**7.31 J**	**7.53 J**	0.754 U	**1.23 J**	0.621 U	0.485 U
2,3,4,7,8-PeCDF	ng/kg	**2.32 J [1.59 J]**	0.543 U	**47.1**	3.97 UX	**2.82 J**	0.519 U	**1.60 J**	0.323 U	0.277 U
2,3,7,8-TCDD	ng/kg	**1.80 J [1.66 UX]**	0.444 U	1.17 UX	0.485 U	0.489 U	0.465 U	1.76 UJ	0.696 U	0.480 U
2,3,7,8-TCDF	ng/kg	**0.586 J [0.246 U]**	0.315 U	**2.70**	0.556 U	0.415 U	0.379 U	**0.281 J**	0.302 U	0.178 U
OCDD	ng/kg	**451,000 D [429,000 D]**	**904**	**240,000 D**	**26,100**	**14,800**	**173 J**	**4,420**	**922**	**119**
OCDF	ng/kg	**46,700 D [40,700 D]**	**83.6**	**18,700**	**2,580**	**1,190**	**11.2 J**	**449**	**93.7**	6.78 UX
Total HpCDD	ng/kg	**46,000 [41,300]**	**104**	**31,500**	**4,240**	**2,050**	**33.2**	**748**	**143**	**15.0**
Total HpCDF	ng/kg	**41,600 [34,400]**	**82.8**	**21,900**	**3,040**	**1,310**	**8.61 J**	**479**	**100**	**8.17 J**
Total HxCDD	ng/kg	**2,580 [2,060]**	**7.51 J**	**1,680**	**252**	**112**	**1.93 J**	**63.1**	**14.7**	**1.59 J**
Total HxCDF	ng/kg	**7,340 [5,520]**	**14.3**	**6,330**	**714**	**380**	**0.597 J**	**123**	**25.2**	**2.78 J**
Total PeCDD	ng/kg	**35.6 [39.5]**	**0.599 J**	**74.0**	**7.54 J**	**2.50 J**	1.18 U	**6.92 J**	1.84 UX	0.323 U
Total PeCDF	ng/kg	**182 [112]**	**0.637 J**	**446**	**47.0**	**29.2**	**0.879 J**	**17.6**	**2.47 J**	0.565 UX
Total TCDD	ng/kg	**14.4 [18.7]**	**1.78 J**	**1.03 J**	**2.02 J**	0.489 U	0.465 U	**35.9**	**7.90**	0.480 U
Total TCDF	ng/kg	**15.7 [12.9]**	0.315 U	**16.5**	**0.845 J**	**0.787 J**	0.379 U	**3.41**	**1.28 J**	**0.261 J**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**633 [563]**	**1.26**	**400**	**47**	**26.1**	**0.218**	**10.3**	**1.8**	**0.134**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**633 [565]**	**2.35**	**401**	**48.5**	**26.6**	**1.55**	**11.3**	**2.58**	**0.788**
Miscellaneous										
Total Organic Carbon	mg/kg	NA [NA]	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C57	SO-C58	SO-C58	SO-C58	SO-C58	SO-C59	SO-C59	SO-C59	SO-C59	SO-C59
Sample Depth (Feet):		2-4	0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-2.5	2.5-4
Date Collected:	Units	5/14/2024	7/31/2024	7/31/2024	7/31/2024	7/31/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/29/2024
Semivolatile Organic Compounds											
1-Methylnaphthalene	mg/kg	0.089 U	0.13 U	0.12 U	0.12 U	0.11 U	0.1 U	0.091 U	**0.2**	**0.2 J**	**2,300 J**
2-Methylnaphthalene	mg/kg	0.089 U	0.13 U	0.12 U	0.12 U	0.11 U	0.1 U	**0.038 J**	**0.52**	**0.34 J**	**4,200 J**
Acenaphthene	mg/kg	0.089 U	0.13 U	0.12 U	0.12 U	0.11 U	0.1 U	0.091 U	**0.62**	**0.39**	**6,800 J**
Acenaphthylene	mg/kg	0.089 U	0.13 U	0.12 U	**0.16**	0.11 U	**0.04 J**	**0.095**	**1.1**	**3.8**	**130 J**
Anthracene	mg/kg	0.089 U	0.13 U	0.12 U	**0.23**	0.11 U	**0.064 J**	**0.1**	**11 J**	**4.7**	**4,800 J**
Benzo(a)anthracene	mg/kg	0.089 U	0.13 U	0.12 U	**0.24 J+**	0.11 U	0.1 U	**0.056 J**	**0.53**	**1.1**	**1,500 J**
Benzo(a)pyrene	mg/kg	0.089 U	0.13 U	0.12 U	**0.78**	0.11 U	**0.062 J**	**0.095**	**1.6**	**6.1**	**540 J**
Benzo(b)fluoranthene	mg/kg	0.089 U	**0.033 J+**	0.12 U	**0.87 J+**	0.11 U	**0.081 J**	**0.11**	**1.4**	**4.9**	**860 J**
Benzo(g,h,i)perylene	mg/kg	0.089 U	0.13 U	0.12 U	**0.78 J+**	0.11 U	**0.1**	**0.27**	**4.1**	**15**	**180 J**
Benzo(k)fluoranthene	mg/kg	0.089 U	0.13 U	0.12 U	**0.28 J+**	0.11 U	0.1 U	**0.041 J**	**0.5**	**1.4**	**360 J**
Chrysene	mg/kg	0.089 U	0.13 U	0.12 U	**0.58 J+**	0.11 U	**0.15**	**0.12**	**1.2**	**2.3**	**1,500 J**
Dibenzo(a,h)anthracene	mg/kg	0.089 U	0.13 U	0.12 U	**0.17**	0.11 U	0.1 U	0.091 U	**0.64 J**	**2.4**	140 UJ
Fluoranthene	mg/kg	**0.051 J**	0.13 U	0.12 U	**0.32 J+**	**0.049 J+**	**0.05 J**	**0.055 J**	**1.2**	**0.95**	**9,400 J**
Fluorene	mg/kg	0.089 U	0.13 U	0.12 U	**0.042 J+**	0.11 U	0.1 U	**0.027 J**	**1.5**	**0.66**	**5,700 J**
Indeno(1,2,3-cd)pyrene	mg/kg	0.089 U	0.13 U	0.12 U	**0.63 J+**	0.11 U	**0.074 J**	**0.2**	**2.8**	**10**	**140 J**
Naphthalene	mg/kg	0.089 U	0.13 U	0.12 U	**0.044 J+**	0.11 U	**0.18**	**0.38**	**2.2**	**3.2**	**14,000 J**
Phenanthrene	mg/kg	**0.048 J**	0.13 U	0.12 U	**0.05 J+**	0.11 U	0.1 U	**0.024 J**	**2.8**	**0.49**	**19,000 J**
Pyrene	mg/kg	**0.032 J**	0.13 U	0.12 U	**0.091 J+**	0.11 U	**0.044 J**	**0.054 J**	**0.96**	**1.3**	**6,200 J**
Total PAHs-16 (ND=0)	mg/kg	**0.131**	**0.033**	ND	**5.27**	**0.049**	**0.845**	**1.63**	**34.2**	**58.7**	**71,100**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.71**	**1.01**	**0.96**	**5.33**	**0.874**	**1.15**	**1.72**	**34.2**	**58.7**	**71,200**
BaP-TE (ND=0)	mg/kg	ND	**0.0033**	ND	**1.13**	ND	**0.0777**	**0.132**	**2.72**	**10.1**	**795**
BaP-TE (ND=1/2 DL)	mg/kg	**0.103**	**0.147**	**0.139**	**1.13**	**0.127**	**0.133**	**0.178**	**2.72**	**10.1**	**865**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	ng/kg	**1.02 J**	**201**	**1,220**	**123**	**57.8**	**486**	**41,600 D**	**17,100 D**	**1,080**	**153,000 D**
1,2,3,4,6,7,8-HpCDF	ng/kg	0.562 UX	**48.5**	**309**	**28.9**	**13.7**	**125**	**12,300**	**4,380**	**285**	**41,100 D**
1,2,3,4,7,8,9-HpCDF	ng/kg	0.388 U	**4.25 J**	**20.2**	**2.50 J**	**1.22 J**	**11.6 J**	**831**	**417**	**25.1**	**2,010**
1,2,3,4,7,8-HxCDD	ng/kg	0.574 U	0.869 UX	**3.95 J**	0.655 U	0.673 U	**1.86 J**	**72.5**	**33.7**	**3.37 J**	**126**
1,2,3,4,7,8-HxCDF	ng/kg	0.329 U	**4.35 J**	**20.9**	**2.20 J**	**1.43 J**	**13.2**	**723**	**457**	**26.3**	**438**
1,2,3,6,7,8-HxCDD	ng/kg	0.567 U	**5.64 J**	**27.6**	**3.48 J**	**1.88 J**	**12.9**	**1,090**	**371**	**28.5**	**4,200**
1,2,3,6,7,8-HxCDF	ng/kg	0.338 U	1.21 UX	**5.62 J**	**0.558 J**	0.648 U	**2.51 J**	**130**	**89.5**	**5.25 J**	**48.6**
1,2,3,7,8,9-HxCDD	ng/kg	0.534 U	**1.72 J**	**7.88 J**	0.699 U	0.701 U	**3.61 J**	**182**	**71.3**	**6.81 J**	**249**
1,2,3,7,8,9-HxCDF	ng/kg	0.483 U	**0.912 J**	**4.25 J**	1.09 U	0.883 U	**1.19 J**	**59.2**	**63.5**	**3.79 J**	58.2 DU
1,2,3,7,8-PeCDD	ng/kg	0.430 U	0.685 U	**1.61 J**	0.499 U	0.732 U	0.800 U	**20.8**	**9.67 J**	1.33 UX	**13.8 J**
1,2,3,7,8-PeCDF	ng/kg	0.297 U	0.432 U	**2.15 J**	0.444 U	0.310 U	0.651 UX	**18.5**	**27.8**	**2.36 J**	3.99 U
2,3,4,6,7,8-HxCDF	ng/kg	0.372 U	1.16 UX	**4.41 J**	**0.665 J**	0.709 U	2.06 UX	**80.6**	**70.0**	**4.70 J**	**134**
2,3,4,7,8-PeCDF	ng/kg	0.263 U	0.415 UX	**3.35 J**	0.380 U	0.300 U	**2.02 J**	**67.7**	**60.6**	**5.23 J**	**8.46 J**
2,3,7,8-TCDD	ng/kg	1.28 UJ	0.349 UX	0.215 UX	0.271 U	0.469 U	0.521 U	2.42 UX	0.821 UX	0.568 UX	**5.19**
2,3,7,8-TCDF	ng/kg	0.277 U	0.314 U	0.455 U	0.298 U	0.307 U	0.445 U	**2.29 J**	**3.49**	**0.607 J**	3.01 U
OCDD	ng/kg	**5.49 J**	**2,830**	**15,800**	**1,810**	**995**	**7,390**	**643,000 D**	**275,000 D**	**14,700**	**1,960,000 D**
OCDF	ng/kg	0.264 UX	**191**	**1,280**	**129**	**56.2**	**522**	**64,100 D**	**15,300**	**1,200**	**270,000 D**
Total HpCDD	ng/kg	**1.02 J**	**405**	**2,380**	**238**	**117**	**1,040**	**71,600**	**31,800**	**2,230**	**236,000**
Total HpCDF	ng/kg	0.562 UX	**247**	**1,390**	**139**	**71.4**	**728**	**61,100**	**21,000**	**1,590**	**223,000**
Total HxCDD	ng/kg	**0.672 J**	**31.4**	**152**	**9.07 J**	**12.7**	**72.9**	**4,430**	**1,830**	**156**	**10,300**
Total HxCDF	ng/kg	0.439 UX	**68.9**	**361**	**35.5**	**18.8**	**224**	**14,100**	**6,700**	**525**	**34,000**
Total PeCDD	ng/kg	**1.16 J**	2.75 UX	**11.3 J**	0.499 U	**7.45 J**	4.27 UX	**137**	**52.3**	**10.0 J**	**81.5**
Total PeCDF	ng/kg	**0.465 J**	**5.72 J**	**33.0**	**0.865 J**	**1.78 J**	**18.9**	**920**	**600**	**48.7**	**301**
Total TCDD	ng/kg	3.69 UX	**1.25 J**	**4.43**	0.271 U	**9.49**	**1.45 J**	**20.3**	**2.42 J**	**1.59 J**	**6.76**
Total TCDF	ng/kg	**0.338 J**	0.314 U	**1.13 J**	0.298 U	0.347 UX	**0.780 J**	**49.0**	**20.3**	**2.64**	**23.3**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**0.0118**	**4.71**	**30.8**	**2.82**	**1.37**	**12.7**	**1,040**	**451**	**28.2**	**3,170**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**1.09**	**5.47**	**30.9**	**3.4**	**2.22**	**13.5**	**1,040**	**451**	**29.2**	**3,170**
Miscellaneous											
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C60	SO-C60	SO-C60	SO-C60	SO-C61	SO-C61	SO-C61	SO-C61	SO-C62	SO-C62	SO-C62
Sample Depth (Feet):		0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2
Date Collected:	Units	5/29/2024	5/29/2024	5/29/2024	5/29/2024	5/14/2024	5/14/2024	5/14/2024	5/15/2024	5/14/2024	5/14/2024	5/14/2024
Semivolatile Organic Compounds												
1-Methylnaphthalene	mg/kg	0.11 U	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
2-Methylnaphthalene	mg/kg	**0.028 J**	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Acenaphthene	mg/kg	0.11 U	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Acenaphthylene	mg/kg	**0.14**	**0.028 J**	0.089 U	0.093 U	**0.028 J**	0.1 U	0.095 U	0.092 U	0.11 U	**0.028 J**	**0.076 J**
Anthracene	mg/kg	**0.19**	**0.036 J**	0.089 U	0.093 U	**0.045 J**	0.1 U	0.095 U	0.092 U	0.11 U	**0.027 J**	**0.088 J**
Benzo(a)anthracene	mg/kg	**0.067 J**	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Benzo(a)pyrene	mg/kg	**0.17**	0.098 U	0.089 U	0.093 U	**0.081 J**	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	**0.068 J**
Benzo(b)fluoranthene	mg/kg	**0.24**	**0.047 J**	0.089 U	0.093 U	**0.11**	**0.025 J**	0.095 U	0.092 U	**0.033 J**	**0.043 J**	**0.11**
Benzo(g,h,i)perylene	mg/kg	**0.39**	**0.073 J**	0.089 U	0.093 U	**0.14**	0.1 U	0.095 U	0.092 U	**0.035 J**	**0.087 J**	**0.31**
Benzo(k)fluoranthene	mg/kg	**0.07 J**	0.098 U	0.089 U	0.093 U	**0.042 J**	0.1 U	0.095 U	0.092 U	0.11 U	**0.035 J**	**0.034 J**
Chrysene	mg/kg	**0.13**	0.098 U	0.089 U	0.093 U	**0.062 J**	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	**0.076 J**
Dibenzo(a,h)anthracene	mg/kg	0.11 U	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Fluoranthene	mg/kg	**0.094 J**	0.098 U	0.089 U	0.093 U	**0.048 J**	0.1 U	0.095 U	0.092 U	0.11 U	**0.038 J**	**0.061 J**
Fluorene	mg/kg	**0.031 J**	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Indeno(1,2,3-cd)pyrene	mg/kg	**0.26**	**0.051 J**	0.089 U	0.093 U	**0.12**	0.1 U	0.095 U	0.092 U	0.11 U	**0.065 J**	**0.21**
Naphthalene	mg/kg	**0.23**	**0.069 J**	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	0.098 U
Phenanthrene	mg/kg	**0.033 J**	0.098 U	0.089 U	0.093 U	0.1 U	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	**0.032 J**
Pyrene	mg/kg	**0.12**	0.098 U	0.089 U	0.093 U	**0.073 J**	0.1 U	0.095 U	0.092 U	0.11 U	0.1 U	**0.047 J**
Total PAHs-16 (ND=0)	mg/kg	**2.17**	**0.304**	ND	ND	**0.749**	**0.025**	ND	ND	**0.068**	**0.323**	**1.11**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**2.28**	**0.794**	**0.712**	**0.744**	**1.05**	**0.775**	**0.76**	**0.736**	**0.838**	**0.773**	**1.36**
BaP-TE (ND=0)	mg/kg	**0.228**	**0.0098**	ND	ND	**0.104**	**0.0025**	ND	ND	**0.0033**	**0.0112**	**0.1**
BaP-TE (ND=1/2 DL)	mg/kg	**0.283**	**0.113**	**0.103**	**0.107**	**0.159**	**0.113**	**0.11**	**0.106**	**0.125**	**0.116**	**0.154**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans												
1,2,3,4,6,7,8-HpCDD	ng/kg	**7,680**	**1,180**	**110**	**29.6**	**628**	**429**	**18.7**	2.58 UX	**268**	**2,040**	**5,640**
1,2,3,4,6,7,8-HpCDF	ng/kg	**2,770**	**421**	**34.4**	**10.4 J**	**203**	**140**	**6.68 J**	**1.94 J**	**67.0**	**418**	**1,710**
1,2,3,4,7,8,9-HpCDF	ng/kg	**222**	**32.8**	**3.45 J**	**1.33 J**	**15.7**	9.78 UX	1.78 U	1.49 U	7.93 UX	**38.2**	**193**
1,2,3,4,7,8-HxCDD	ng/kg	**25.3**	3.47 UX	0.577 U	0.619 U	**3.15 J**	**3.05 J**	1.87 U	1.35 U	2.45 U	**10.7 J**	**23.5**
1,2,3,4,7,8-HxCDF	ng/kg	**224**	**35.1**	**3.78 J**	**1.31 J**	**12.4**	**9.50 J**	1.09 U	0.783 U	**10.1 J**	**35.6**	**250**
1,2,3,6,7,8-HxCDD	ng/kg	**201**	**29.3**	**3.19 J**	**1.37 J**	**18.1**	**13.6**	1.81 U	1.30 U	**8.16 J**	**52.7**	**197**
1,2,3,6,7,8-HxCDF	ng/kg	**47.2**	**7.50 J**	**1.11 J**	0.600 U	3.46 U	**1.95 J**	1.18 U	0.833 U	2.70 U	**9.27 J**	**52.4**
1,2,3,7,8,9-HxCDD	ng/kg	**48.4**	**6.99 J**	**0.937 J**	0.645 U	**6.30 J**	**4.94 J**	1.90 U	1.36 U	2.51 U	**16.0**	**51.0**
1,2,3,7,8,9-HxCDF	ng/kg	**37.0**	**4.91 J**	**0.330 J**	0.876 U	3.48 U	2.65 U	1.58 U	1.16 U	3.68 U	7.05 UX	**26.9**
1,2,3,7,8-PeCDD	ng/kg	**6.76 J**	**1.30 J**	0.421 U	0.740 U	2.19 U	2.16 U	2.26 U	1.92 U	3.25 U	**4.63 J**	**12.5**
1,2,3,7,8-PeCDF	ng/kg	**12.2 J**	**2.12 J**	0.389 U	**0.422 J**	1.66 U	1.74 U	1.56 U	1.41 U	2.72 U	2.26 U	**26.6**
2,3,4,6,7,8-HxCDF	ng/kg	**36.2**	**4.58 J**	**1.06 J**	0.657 U	**1.98 J**	**3.15 J**	1.29 U	0.928 U	1.60 UX	**15.6**	**27.6**
2,3,4,7,8-PeCDF	ng/kg	**27.3**	**4.80 J**	**0.572 J**	0.262 U	**2.27 J**	1.46 U	1.41 U	1.21 U	2.32 U	7.30 UX	**78.7**
2,3,7,8-TCDD	ng/kg	0.527 U	0.308 U	0.269 U	0.366 U	0.646 U	0.822 U	0.614 U	0.546 U	1.07 U	0.988 U	0.748 U
2,3,7,8-TCDF	ng/kg	**1.88 J**	0.453 UX	0.233 U	0.195 UX	0.803 U	0.701 U	0.642 U	0.530 U	0.933 U	0.880 U	3.63 UX
OCDD	ng/kg	**103,000 D**	**14,600**	**1,510**	**386**	**5,750**	**3,450**	**160**	**26.1**	**3,170**	**20,600**	**66,500 D**
OCDF	ng/kg	**9,190**	**1,360**	**112**	**32.5**	**783**	**556**	**22.7 J**	**4.06 J**	**233**	**1,610**	**5,720**
Total HpCDD	ng/kg	**14,900**	**2,330**	**218**	**60.1**	**1,190**	**830**	**36.9**	5.57 UX	**606**	**3,940**	**12,500**
Total HpCDF	ng/kg	**11,600**	**1,830**	**165**	**49.7**	**915**	**677**	**25.4**	**4.82 J**	**391**	**2,240**	**10,900**
Total HxCDD	ng/kg	**934**	**137**	**15.6**	**6.13 J**	**107**	**84.0**	5.70 UX	1.36 U	**28.3**	**282**	**1,070**
Total HxCDF	ng/kg	**3,490**	**553**	**55.2**	**16.5**	**240**	**190**	**7.04 J**	1.16 U	**170**	**672**	**4,850**
Total PeCDD	ng/kg	**20.1**	**4.05 J**	**1.91 J**	2.48 UX	**11.7 J**	**14.9**	2.26 U	1.92 U	3.25 U	**23.9**	**49.6**
Total PeCDF	ng/kg	**284**	**46.4**	**3.58 J**	**0.422 J**	**24.9**	**18.2**	1.56 U	1.41 U	**6.20 J**	**49.3**	**577**
Total TCDD	ng/kg	**4.46**	**1.31 J**	**0.374 J**	**1.53 J**	**3.58**	**4.07**	0.614 U	0.546 U	1.07 U	2.03 UX	**1.96 J**
Total TCDF	ng/kg	**12.5**	2.17 U	0.233 U	0.195 UX	**3.49**	2.61 UX	0.642 U	0.530 U	0.933 U	**1.51 J**	**22.7**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**218**	**32.8**	**3.18**	**0.82**	**15.3**	**10.5**	**0.309**	**0.0284**	**6.2**	**50.2**	**197**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**218**	**33.1**	**3.57**	**1.59**	**17.1**	**12.5**	**2.56**	**1.9**	**9.48**	**52.3**	**197**
Miscellaneous												
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID: / Sample Depth (Feet): / Date Collected:	Units	SO-C62 2-4 5/14/2024	SO-C63 0-0.5 5/28/2024	SO-C63 0.5-1 5/28/2024	SO-C63 1-2 5/28/2024	SO-C63 2-4 5/28/2024	SO-C64 0-0.5 5/15/2024	SO-C64 0.5-1 5/15/2024	SO-C64 1-2 5/15/2024	SO-C64 2-4 5/15/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.1 U	**0.13**	**0.042 J**	0.086 U	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
2-Methylnaphthalene	mg/kg	0.1 U	**0.24**	**0.079 J**	**0.045 J**	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Acenaphthene	mg/kg	0.1 U	**0.11**	**0.049 J**	0.086 U	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Acenaphthylene	mg/kg	0.1 U	**0.11**	**0.13**	0.086 U	0.084 U	**0.043 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Anthracene	mg/kg	0.1 U	**0.22**	**0.15**	0.086 U	0.084 U	**0.079 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Benzo(a)anthracene	mg/kg	0.1 U	**0.063 J**	**0.066 J**	0.086 U	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Benzo(a)pyrene	mg/kg	0.1 U	**0.13**	**0.15**	0.086 U	0.084 U	**0.066 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Benzo(b)fluoranthene	mg/kg	0.1 U	**0.19**	**0.2**	0.086 U	0.084 U	**0.098 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Benzo(g,h,i)perylene	mg/kg	0.1 U	**0.52**	**0.76**	0.086 U	0.084 U	**0.19** [0.11 U]	0.094 U	0.09 U	0.093 U
Benzo(k)fluoranthene	mg/kg	0.1 U	**0.066 J**	**0.066 J**	0.086 U	0.084 U	**0.11** [0.11 U]	0.094 U	0.09 U	0.093 U
Chrysene	mg/kg	0.1 U	**0.2**	**0.14**	0.086 U	0.084 U	**0.069 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Dibenzo(a,h)anthracene	mg/kg	0.1 U	0.1 U	**0.11**	0.086 U	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Fluoranthene	mg/kg	0.1 U	**0.084 J**	**0.07 J**	0.086 U	0.084 U	**0.074 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Fluorene	mg/kg	0.1 U	**0.044 J**	**0.029 J**	0.086 U	0.084 U	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.1 U	**0.29**	**0.45**	0.086 U	0.084 U	**0.13** [0.11 U]	0.094 U	0.09 U	0.093 U
Naphthalene	mg/kg	0.1 U	**2.7**	**0.86**	**0.66**	**0.052 J**	0.11 U [0.11 U]	0.094 U	0.09 U	0.093 U
Phenanthrene	mg/kg	0.1 U	**0.053 J**	**0.038 J**	0.086 U	0.084 U	**0.03 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Pyrene	mg/kg	0.1 U	**0.11**	**0.11**	0.086 U	0.084 U	**0.073 J** [0.11 U]	0.094 U	0.09 U	0.093 U
Total PAHs-16 (ND=0)	mg/kg	ND	**4.89**	**3.38**	**0.66**	**0.052**	**0.962** [ND]	ND	ND	ND
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.8**	**4.94**	**3.38**	**1.31**	**0.682**	**1.24 [0.88]**	**0.752**	**0.72**	**0.744**
BaP-TE (ND=0)	mg/kg	ND	**0.185**	**0.332**	ND	ND	**0.09** [ND]	ND	ND	ND
BaP-TE (ND=1/2 DL)	mg/kg	**0.116**	**0.235**	**0.332**	**0.0994**	**0.0971**	**0.15 [0.127]**	**0.109**	**0.104**	**0.107**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**220**	**11,100**	**4,570**	**3,760**	**14.2**	**322 [234]**	**653**	**9.74 J**	**2.63 J**
1,2,3,4,6,7,8-HpCDF	ng/kg	**40.0**	**2,910**	**1,180**	**1,100**	**3.37 J**	**86.6 [73.5]**	**183**	**2.52 J**	**1.06 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	2.48 UX	**251**	**78.9**	**70.2**	0.774 U	**7.52 J [8.19 J]**	**13.1**	0.796 U	0.891 U
1,2,3,4,7,8-HxCDD	ng/kg	2.93 U	**29.0**	**10.9 J**	**10.6 J**	0.647 U	1.44 UX [2.08 U]	**3.18 J**	0.627 U	0.565 U
1,2,3,4,7,8-HxCDF	ng/kg	2.07 UX	**247**	**71.3**	**56.2**	0.435 U	**8.54 J [10.2 J]**	**13.4**	0.526 U	0.340 U
1,2,3,6,7,8-HxCDD	ng/kg	**5.29 J**	**315**	**97.8**	**93.7**	0.654 UX	**9.27 J [9.40 J]**	**18.8**	0.621 U	0.554 U
1,2,3,6,7,8-HxCDF	ng/kg	1.81 U	**50.8**	**16.7**	**13.1**	0.465 U	**2.18 J [3.50 U]**	**3.26 J**	0.501 U	0.351 U
1,2,3,7,8,9-HxCDD	ng/kg	2.84 U	**61.9**	**21.6**	**20.7**	0.678 U	**2.95 J [3.39 J]**	**5.74 J**	0.647 U	0.580 U
1,2,3,7,8,9-HxCDF	ng/kg	2.38 U	**9.03 J**	**6.80 J**	**6.67 J**	0.707 U	**1.59 J [1.70 J]**	1.55 UX	0.827 U	0.527 U
1,2,3,7,8-PeCDD	ng/kg	2.44 U	**7.66 J**	2.10 UX	**2.53 J**	0.500 U	0.571 UX [2.20 U]	**1.06 J**	0.413 U	0.449 U
1,2,3,7,8-PeCDF	ng/kg	2.03 U	**15.5**	**3.69 J**	**2.50 J**	0.283 U	1.01 UX [2.43 U]	0.864 UX	0.439 U	0.324 U
2,3,4,6,7,8-HxCDF	ng/kg	1.81 U	**38.9**	**9.43 J**	**11.9 J**	0.499 U	**0.815 J [4.16 J]**	**5.06 J**	0.563 U	0.391 U
2,3,4,7,8-PeCDF	ng/kg	1.78 U	**34.5**	**9.05 J**	**6.45 J**	0.244 U	**2.02 J [2.87 J]**	0.422 UX	0.335 U	0.256 U
2,3,7,8-TCDD	ng/kg	0.853 U	0.609 UX	0.439 UX	0.549 UX	0.236 U	0.278 U [0.891 U]	0.322 UX	0.325 U	0.214 U
2,3,7,8-TCDF	ng/kg	0.725 U	**1.94 J**	**0.717 J**	**0.504 J**	0.208 U	0.910 UB [0.655 U]	0.905 UB	0.262 U	0.177 U
OCDD	ng/kg	**2,330**	**160,000 D**	**65,000 D**	**50,500 D**	**164**	**3,770 [2230 J]**	**7,130**	**82.8**	**26.8**
OCDF	ng/kg	**185**	**12,000**	**5,380**	**4,990**	**11.5 J**	**297 [257]**	**758**	**7.45 J**	**2.24 J**
Total HpCDD	ng/kg	**411**	**22,200**	**8,480**	**7,080**	**26.0**	**625 [491]**	**1,270**	**17.8**	**5.14 J**
Total HpCDF	ng/kg	**217**	**15,900**	**5,570**	**5,200**	**13.4**	**416 [392]**	**955**	**9.04 J**	**2.76 J**
Total HxCDD	ng/kg	**16.6**	**1,600**	**494**	**439**	1.53 UX	**49.0 [30.6]**	**105**	**1.53 J**	**0.705 J**
Total HxCDF	ng/kg	**48.8**	**4,810**	**1,370**	**1,190**	**3.79 J**	**146 [150]**	**268**	**2.29 J**	1.19 UX
Total PeCDD	ng/kg	**5.97 J**	**62.1**	**15.3**	**24.8**	0.306 UX	**8.02 J [5.99 J]**	**15.4**	**4.58 J**	**0.755 J**
Total PeCDF	ng/kg	**2.59 J**	**404**	**111**	**91.4**	**0.654 J**	**17.1 [22.6]**	**26.8**	0.298 UX	**0.385 J**
Total TCDD	ng/kg	**2.00 J**	**5.42**	**4.72**	**9.59**	0.225 U	**6.58 [3.62 U]**	**17.1**	**3.03**	0.714 UX
Total TCDF	ng/kg	0.725 U	**16.5**	**8.63**	**2.20 J**	0.208 U	**3.30 [1.27 J]**	**4.13**	0.618 UB	0.316 UB
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**3.88**	**288**	**106**	**91.8**	**0.228**	**8.52 [7.65]**	**16.9**	**0.15**	**0.0456**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**6.57**	**288**	**107**	**92.1**	**0.856**	**9.08 [9.54]**	**17.2**	**0.808**	**0.599**
Miscellaneous										
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA [NA]	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C65	SO-C65	SO-C65	SO-C65	SO-C65	SO-C66	SO-C66	SO-C66	SO-C66
Sample Depth (Feet):		0-0.5	0.5-1	1-2	2-2.5	2.5-4	0-0.5	0.5-1	1-2	2-4
Date Collected:	Units	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/31/2024	7/31/2024	7/31/2024	7/31/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.12 U [0.12 U]	0.11 U	0.1 U	**1.3 J+**	**10**	0.13 U	0.11 U	11 U	**22 J+**
2-Methylnaphthalene	mg/kg	0.12 U [0.12 U]	0.11 U	**0.049 J**	**1.7 J+**	**23**	**0.056 J**	**0.064 J**	11 U	**40**
Acenaphthene	mg/kg	0.12 U [0.12 U]	0.11 U	**0.12**	**4.6 J+**	**33**	**0.039 J+**	0.11 U	**3.6 J+**	**65 J+**
Acenaphthylene	mg/kg	**0.21 [0.26]**	**0.067 J**	**0.89**	**0.26 J+**	**0.71**	**0.33**	**0.53**	**23**	**3.4**
Anthracene	mg/kg	**0.27 [0.31]**	**0.074 J**	**1.1**	**1.6 J+**	**7.2**	**8.1**	**6.5**	**140**	**21**
Benzo(a)anthracene	mg/kg	**0.099 J [0.1 J]**	0.11 U	**1.7**	**3.5 J+**	**6.4**	**1.1 J+**	**1.2 J+**	**210 J+**	**35 J+**
Benzo(a)pyrene	mg/kg	**0.84 [1.1]**	**0.19**	**4.4**	**2.4 J+**	**2.1**	**3.1**	**5.5**	**250**	**30**
Benzo(b)fluoranthene	mg/kg	**1.1 [1.2]**	**0.22**	**5.4**	**3.2 J+**	**3.2**	**4.7 J+**	**8.1 J+**	**390 J+**	**48 J+**
Benzo(g,h,i)perylene	mg/kg	**0.75 [0.87]**	**0.35 J**	**2.7**	**0.67 J+**	**0.52**	**1.1 J+**	**2 J+**	**86 J+**	**9.6 J+**
Benzo(k)fluoranthene	mg/kg	**0.29 [0.65]**	**0.052 J**	**1.4**	**1.2 J+**	**1.1**	**1.7 J+**	**2.2 J+**	**140 J+**	**18 J+**
Chrysene	mg/kg	**0.2 [0.23]**	0.11 U	**2.3**	**3.7 J+**	**5.5**	**5.6 J+**	**5.8 J+**	**410 J+**	**49 J+**
Dibenzo(a,h)anthracene	mg/kg	**0.19 [0.2]**	**0.075 J**	**0.69**	**0.22 J+**	**0.17**	**0.36 J+**	**0.58 J+**	**20 J+**	**3.3 J+**
Fluoranthene	mg/kg	**0.063 J [0.091 J]**	**0.038 J**	**2.9**	**11 J+**	**39**	**3.7 J+**	**3.9 J+**	**830 J+**	**150 J+**
Fluorene	mg/kg	0.12 U [0.039 J]	0.11 U	**0.16**	**3.3 J**	**25**	**0.34 J+**	**0.4 J+**	11 U	**48 J+**
Indeno(1,2,3-cd)pyrene	mg/kg	**0.64 [0.76]**	**0.29 J**	**2.6**	**0.62 J+**	**0.54**	**0.99 J+**	**1.8 J+**	**75 J+**	**9.2 J+**
Naphthalene	mg/kg	0.12 U [0.05 J]	0.11 U	**0.17**	**9.3 J+**	**93**	0.13 U	**0.087 J+**	11 U	**210 J+**
Phenanthrene	mg/kg	0.12 U [0.051 J]	0.11 U	**0.21**	**13 J+**	**79**	**0.58 J+**	**0.62 J+**	**12 J+**	**160 J+**
Pyrene	mg/kg	**0.051 J [0.063 J]**	0.11 U	**2.1**	**9.8 J+**	**28**	**0.69 J+**	**0.97 J+**	**200 J+**	**70 J+**
Total PAHs-16 (ND=0)	mg/kg	**4.7 [5.97]**	**1.36**	**28.8**	**68.4**	**324**	**32.4**	**40.2**	**2,790**	**930**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**4.94 [6.03]**	**1.74**	**28.8**	**68.4**	**324**	**32.5**	**40.2**	**2,800**	**930**
BaP-TE (ND=0)	mg/kg	**1.22 [1.51]**	**0.317**	**6.08**	**3.37**	**3.3**	**4.16**	**7.22**	**339**	**42.7**
BaP-TE (ND=1/2 DL)	mg/kg	**1.22 [1.51]**	**0.322**	**6.08**	**3.37**	**3.3**	**4.16**	**7.22**	**339**	**42.7**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**2,180 [2,900]**	**2,530**	**3,010**	**21.7 J**	**37.4**	**3,140**	**4,720**	**9,190**	**4,380**
1,2,3,4,6,7,8-HpCDF	ng/kg	**584 [880]**	**763 J**	**968**	**3.19 J**	**5.89 J**	**970**	**1,580 J**	**2,650 J**	**1,270 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	**50.8 [60.8]**	**55.3**	**55.0**	2.68 U	4.39 U	**79.0**	**118**	**127**	**58.1**
1,2,3,4,7,8-HxCDD	ng/kg	**7.68 J [8.74 J]**	**9.57 J**	**9.22 J**	2.23 U	2.32 U	**8.56 J**	**10.3 J**	**14.8**	**6.90 J**
1,2,3,4,7,8-HxCDF	ng/kg	**71.8 [62.4]**	**58.0**	**41.1**	1.31 U	1.25 U	**101**	**131**	**65.0**	**41.8**
1,2,3,6,7,8-HxCDD	ng/kg	**71.5 [70.6]**	**82.3**	**88.8**	2.12 U	2.38 U	**89.8**	**122**	**232**	**109**
1,2,3,6,7,8-HxCDF	ng/kg	**14.8 [12.3]**	**14.7**	**8.94 J**	1.41 U	1.30 U	**17.9**	**20.4**	**11.5 J**	**7.99 J**
1,2,3,7,8,9-HxCDD	ng/kg	**17.3 [17.1]**	**21.3**	**21.2**	2.49 U	2.78 U	**19.1**	**22.7**	**38.1**	**17.2**
1,2,3,7,8,9-HxCDF	ng/kg	11.1 UX [6.61 J]	**14.3**	**5.81 J**	2.51 U	2.61 U	5.73 UX	**3.78 J**	1.93 UX	3.10 UX
1,2,3,7,8-PeCDD	ng/kg	2.82 UX [1.72 UX]	**4.27 J**	2.05 UX	1.94 U	1.46 U	**2.83 J**	2.53 UX	**4.08 J**	1.59 UX
1,2,3,7,8-PeCDF	ng/kg	**3.23 J [2.31 UX]**	**4.22 J**	1.23 UX	0.821 U	0.888 U	**4.16 J**	3.79 UX	1.33 UX	1.17 UX
2,3,4,6,7,8-HxCDF	ng/kg	**19.3 [10.5 J]**	**22.7**	**4.41 J**	1.48 U	1.52 U	**11.3 J**	**13.2**	**6.24 J**	**7.38 J**
2,3,4,7,8-PeCDF	ng/kg	**8.61 J [5.57 J]**	**10.0 J**	**3.85 J**	0.764 U	0.816 U	**12.8**	**13.6**	**6.06 J**	3.56 UX
2,3,7,8-TCDD	ng/kg	0.682 UX [0.710 UX]	0.769 U	0.664 U	1.33 U	1.22 U	0.455 U	0.483 U	1.41 UX	0.404 UX
2,3,7,8-TCDF	ng/kg	1.01 UX [0.739 U]	**1.18 J**	0.787 U	1.00 U	0.980 U	**0.499 J**	**0.760 J**	0.393 UX	0.503 U
OCDD	ng/kg	**27,500 [44,300 D]**	**28,300**	**32,700 D**	**153**	**410**	**51,700 D**	**74,900 D**	**130,000 D**	**55,700 D**
OCDF	ng/kg	**2,540 [3,500]**	**3,300 J**	**4,150**	**11.4 J**	**25.6 J**	**4,080**	**6,730**	**14,400**	**6,910**
Total HpCDD	ng/kg	**4,810 [5,610]**	**4,870**	**5,600**	**57.0**	**78.3**	**6,410**	**9,010**	**17,000**	**8,080**
Total HpCDF	ng/kg	**3,940 [4,180]**	**4,870**	**5,220**	**14.2 J**	**35.0**	**5,330**	**7,480**	**13,800**	**6,580**
Total HxCDD	ng/kg	**401 [347]**	**422**	**415**	**4.20 J**	**6.08 J**	**441**	**533**	**1,060**	**477**
Total HxCDF	ng/kg	**1,340 [1,120]**	**1,610**	**1,220**	**3.11 J**	**2.42 J**	**1,540**	**1,880**	**2,250**	**1,170**
Total PeCDD	ng/kg	**13.9 [12.8]**	**22.2**	**18.5**	**5.56 J**	1.30 UX	**15.1**	**8.52 J**	**30.0**	**6.62 J**
Total PeCDF	ng/kg	**119 [81.9]**	**151**	**73.2**	0.942 UX	1.63 UX	**126**	**141**	**91.6**	**53.0**
Total TCDD	ng/kg	**9.59 [8.71]**	**10.2**	**13.8**	**5.36**	1.22 U	**4.06**	0.483 U	**10.8**	**1.61 J**
Total TCDF	ng/kg	**10.8 [4.17]**	**16.8**	**15.6**	1.00 U	0.980 U	**3.86**	**9.89**	**21.8**	**10.0**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**60.1 [73.2]**	**72.8**	**70.5**	**0.298**	**0.564**	**90.2**	**125**	**206**	**94.9**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**62.4 [74.5]**	**73.1**	**71.9**	**2.8**	**2.82**	**90.7**	**127**	**206**	**96.6**
Miscellaneous										
Total Organic Carbon	mg/kg	NA [NA]	NA	NA	NA	NA	**41,000**	**31,000**	**100,000**	**78,000**

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C67	SO-C67	SO-C67	SO-C67	SO-C68	SO-C68	SO-C68	SO-C68	SO-C69
Sample Depth (Feet):		0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-4	0-0.5
Date Collected:	Units	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/28/2024	5/28/2024	5/28/2024	5/28/2024	5/15/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	0.22 U	0.19 U	0.087 U	0.09 U	0.099 U
2-Methylnaphthalene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	0.22 U	0.19 U	0.087 U	0.09 U	0.099 U
Acenaphthene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**0.12 J**	**0.067 J**	0.087 U	0.09 U	0.099 U
Acenaphthylene	mg/kg	0.1 U	**0.037 J**	0.1 U [0.029 J]	0.092 U	**1.5**	**1.3**	0.087 U	0.09 U	0.099 U
Anthracene	mg/kg	0.1 U	**0.035 J**	0.1 U [0.057 J]	0.092 U	**3**	**2**	0.087 U	0.09 U	**0.064 J**
Benzo(a)anthracene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**1.1**	**0.53**	0.087 U	0.09 U	**0.047 J**
Benzo(a)pyrene	mg/kg	0.1 U	**0.056 J**	0.1 U [0.098 U]	0.092 U	**3.5**	**2.5**	0.087 U	0.09 U	**0.087 J**
Benzo(b)fluoranthene	mg/kg	0.1 U	**0.052 J**	**0.038 J [0.042 J]**	0.092 U	**4.6**	**2.4**	0.087 U	0.09 U	**0.13**
Benzo(g,h,i)perylene	mg/kg	0.1 U	**0.16**	**0.077 J [0.1]**	0.092 U	**5.4**	**8.4**	0.087 U	0.09 U	**0.16**
Benzo(k)fluoranthene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**1.4**	**0.78**	0.087 U	0.09 U	**0.042 J**
Chrysene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**2.9**	**1.5**	0.087 U	0.09 U	**0.077 J**
Dibenzo(a,h)anthracene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**1.1**	**1.3**	0.087 U	0.09 U	0.099 U
Fluoranthene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**2.3**	**0.76**	0.087 U	0.09 U	**0.063 J**
Fluorene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**0.39**	**0.26**	0.087 U	0.09 U	0.099 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.1 U	**0.11**	**0.056 J [0.073 J]**	0.092 U	**4**	**5.5**	0.087 U	0.09 U	**0.12**
Naphthalene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**0.094 J**	**0.081 J**	0.087 U	0.09 U	0.099 U
Phenanthrene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**0.52**	**0.22**	0.087 U	0.09 U	**0.028 J**
Pyrene	mg/kg	0.1 U	0.097 U	0.1 U [0.098 U]	0.092 U	**3.9**	**1.6**	0.087 U	0.09 U	**0.074 J**
Total PAHs-16 (ND=0)	mg/kg	ND	**0.45**	**0.171 [0.301]**	ND	**35.8**	**29.2**	ND	ND	**0.892**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.8**	**0.935**	**0.821 [0.84]**	**0.736**	**35.8**	**29.2**	**0.696**	**0.72**	**1.14**
BaP-TE (ND=0)	mg/kg	ND	**0.0722**	**0.0094 [0.0115]**	ND	**5.59**	**4.65**	ND	ND	**0.117**
BaP-TE (ND=1/2 DL)	mg/kg	**0.116**	**0.126**	**0.115 [0.115]**	**0.106**	**5.59**	**4.65**	**0.101**	**0.104**	**0.167**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**1,180**	**11,900**	**2,310 J [123,000 DJ]**	**9.99 J**	**7,930**	**467**	**120**	**16.4**	**579**
1,2,3,4,6,7,8-HpCDF	ng/kg	**246**	**3,500**	**746 J [49,600 DJ]**	**2.99 J**	**2,600**	**108**	**23.7**	**4.35 J**	**144**
1,2,3,4,7,8,9-HpCDF	ng/kg	**24.3**	**270**	**76.8 J [2,870 J]**	1.35 U	**213**	**11.3 J**	1.70 UX	0.745 U	**11.0 J**
1,2,3,4,7,8-HxCDD	ng/kg	**3.78 J**	**28.6**	**9.01 J [320 J]**	1.06 U	22.3 UX	1.81 U	1.41 U	0.598 U	**2.33 J**
1,2,3,4,7,8-HxCDF	ng/kg	**25.8**	**241**	**87.1 J [1,220 J]**	0.682 U	**190**	**9.10 J**	1.76 UX	0.429 U	**10.9 J**
1,2,3,6,7,8-HxCDD	ng/kg	**32.4**	**336**	**98.5 J [3,590 J]**	1.03 U	**225**	**11.3 J**	**3.04 J**	0.576 UX	**15.3**
1,2,3,6,7,8-HxCDF	ng/kg	**5.23 J**	**44.5**	**17.8 J [257 J]**	0.753 U	**38.5**	1.80 UX	1.04 U	0.472 U	2.58 UX
1,2,3,7,8,9-HxCDD	ng/kg	**6.96 J**	**60.6**	**17.0 J [630 J]**	1.10 U	**52.8**	**3.54 J**	1.48 U	0.595 U	3.76 UX
1,2,3,7,8,9-HxCDF	ng/kg	**3.00 J**	12.2 UJX	**12.8 [68.9]**	0.857 U	**35.3**	1.50 UX	1.47 U	0.584 U	1.47 UX
1,2,3,7,8-PeCDD	ng/kg	0.983 U	**7.57 J**	**3.71 J [64.0 J]**	0.637 U	**7.49 J**	**0.841 J**	0.596 U	0.324 U	**0.875 J**
1,2,3,7,8-PeCDF	ng/kg	2.11 UX	**12.4**	**12.4 [15.1]**	0.305 U	**13.3**	1.02 UX	0.468 U	0.320 U	0.846 UX
2,3,4,6,7,8-HxCDF	ng/kg	**4.57 J**	**30.9**	**13.8 [191]**	0.779 U	**51.5**	**3.46 J**	1.15 U	0.533 U	**2.03 J**
2,3,4,7,8-PeCDF	ng/kg	**4.65 J**	**31.2**	**24.8 J [61.4 J]**	0.285 U	**22.5**	**0.803 J**	0.505 U	0.276 U	1.56 UX
2,3,7,8-TCDD	ng/kg	0.457 U	0.717 UX	0.986 UX [2.38 UX]	0.395 U	0.758 UX	0.474 UX	0.288 U	0.174 U	0.459 U
2,3,7,8-TCDF	ng/kg	**0.450 J**	**1.77 J**	**2.46 [1.62 J]**	0.223 U	**1.98 J**	0.267 U	0.265 U	0.202 U	0.909 UB
OCDD	ng/kg	**21,100**	**171,000 D**	**24,500 J [1,470,000 DJ]**	**187**	**115,000 D**	**5,910**	**1,330**	**170**	**6,510**
OCDF	ng/kg	**1,070**	**15,200**	**3,010 J [253,000 DJ]**	**11.5 J**	**10,500**	**423**	**87.0**	**15.4 J**	**549**
Total HpCDD	ng/kg	**2,480**	**24,100**	**4,990 J [210,000]**	**20.5**	**14,700**	**842**	**208**	**28.5**	**1,090**
Total HpCDF	ng/kg	**1,600**	**20,200**	**5,480 J [229,000]**	**17.9**	**11,800**	**476**	**95.5**	**16.4**	**717**
Total HxCDD	ng/kg	**158**	**1,550**	**472 J [12,300]**	1.10 U	**910**	**56.0**	**15.4**	3.21 UX	**72.7**
Total HxCDF	ng/kg	**504**	**5,080**	**2,330 J [42,800]**	**5.91 J**	**3,130**	**134**	**24.7**	3.59 UX	**190**
Total PeCDD	ng/kg	**9.36 J**	**50.5**	**28.1 J [225]**	1.66 UJ	**44.5**	**12.0 J**	0.596 U	**0.825 J**	**3.48 J**
Total PeCDF	ng/kg	**38.9**	**328**	**262 J [1,790]**	**0.480 J**	**306**	**13.6**	**3.32 J**	**0.733 J**	**16.4**
Total TCDD	ng/kg	**3.43**	**4.35**	**6.30 [8.52]**	**0.578 J**	**8.60**	**8.51**	**4.78**	0.174 U	**5.48**
Total TCDF	ng/kg	**1.71 J**	**16.7**	**17.7 [60.5]**	**0.528 J**	**11.4**	**1.80 J**	**0.517 J**	0.202 U	**1.26 J+**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**30.8**	**304**	**77 [2,980]**	**0.189**	**219**	**11.6**	**2.17**	**0.263**	**13.4**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**31.5**	**305**	**77.4 [2,980]**	**1.08**	**221**	**12.1**	**3.13**	**0.761**	**14.3**
Miscellaneous										
Total Organic Carbon	mg/kg	NA	NA	NA [NA]	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C69	SO-C69	SO-C69	SO-C70	SO-C70	SO-C70	SO-C70	SO-C70	SO-C70	SO-C71
Sample Depth (Feet):		0.5-1	1-2	2-4	0-0.5	0.5-0.9	0.9-1.5	1.5-2	2-3.6	3.6-4	0-0.5
Date Collected:	Units	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	7/31/2024
Semivolatile Organic Compounds											
1-Methylnaphthalene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	0.1 U	2.1 U	**0.6**	**6.9**	**10 J**	0.12 U
2-Methylnaphthalene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	0.1 U	**0.53 J**	**0.17 J**	**8.4**	**18 DJ**	0.12 U
Acenaphthene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	0.1 U	**43**	**31**	**25**	**26 DJ**	0.12 U
Acenaphthylene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.19**	**16**	**4**	**1.2**	**0.65 J**	0.12 U
Anthracene	mg/kg	**0.026 J**	0.091 U	0.087 U	0.1 U	**0.24**	**18**	**13**	**6.4**	**6.8 J**	0.12 U
Benzo(a)anthracene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.087 J**	**140**	**73**	**11**	**6.5 J**	0.12 U
Benzo(a)pyrene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.73**	**110**	**31**	**7.3**	**2.7 J**	0.12 U
Benzo(b)fluoranthene	mg/kg	**0.048 J**	0.091 U	0.087 U	0.1 U	**0.71**	**140**	**46**	**10**	**4.1 J**	0.12 U
Benzo(g,h,i)perylene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**1.2**	**42**	**11**	**3.5**	**1.2 J**	0.12 U
Benzo(k)fluoranthene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	0.1 U	**56**	**20**	**3.1**	**1 J**	0.12 U
Chrysene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.12**	**170**	**71**	**11**	**6.3 J**	0.12 U
Dibenzo(a,h)anthracene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.22**	**13**	**3.5**	**0.9**	**0.34 J**	0.12 U
Fluoranthene	mg/kg	**0.096**	0.091 U	0.087 U	0.1 U	**0.099 J**	**480 D**	**370 D**	**50**	**32 DJ**	0.12 U
Fluorene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.025 J**	**3.4**	**6**	**15**	**20 DJ**	0.12 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	**0.98**	**35**	**9.9**	**3.1**	**0.98 J**	0.12 U
Naphthalene	mg/kg	0.091 U	0.091 U	0.087 U	0.1 U	0.1 U	**3**	**1.8**	**47**	**77 DJ**	0.12 U
Phenanthrene	mg/kg	**0.12**	0.091 U	0.087 U	0.1 U	**0.034 J**	**2 J**	**25**	**46**	**57 DJ**	0.12 U
Pyrene	mg/kg	**0.083 J**	0.091 U	0.087 U	0.1 U	**0.096 J**	**190**	**260 D**	**36**	**23 DJ**	0.12 U
Total PAHs-16 (ND=0)	mg/kg	**0.373**	ND	ND	ND	**4.73**	**1,460**	**976**	**277**	**266**	ND
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.874**	**0.728**	**0.696**	**0.8**	**4.88**	**1,460**	**976**	**277**	**266**	**0.96**
BaP-TE (ND=0)	mg/kg	**0.0048**	ND	ND	ND	**1.13**	**155**	**47.7**	**10.7**	**4.21**	ND
BaP-TE (ND=1/2 DL)	mg/kg	**0.105**	**0.105**	**0.101**	**0.116**	**1.13**	**155**	**47.7**	**10.7**	**4.21**	**0.139**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	ng/kg	**2,820**	**20.5**	2.02 UX	**399**	**48,800 D**	**14,300**	**2,040**	**1,230**	**465**	**258**
1,2,3,4,6,7,8-HpCDF	ng/kg	**757**	**4.25 J**	0.680 UX	**98.5**	**11,800**	**4,300**	**417**	**385**	**131**	**62.0**
1,2,3,4,7,8,9-HpCDF	ng/kg	**50.5**	1.19 U	0.933 U	**8.89 J**	**1,000**	**289**	**21.7**	**28.0**	**10.7 J**	**7.11 J**
1,2,3,4,7,8-HxCDD	ng/kg	**9.67 J**	0.782 U	0.549 U	**2.21 J**	**78.7**	**32.9**	**3.61 J**	**3.22 J**	2.59 U	**1.47 J**
1,2,3,4,7,8-HxCDF	ng/kg	**37.6**	0.579 U	0.478 U	**9.76 J**	**1,070**	**301**	**16.0**	**23.9**	**9.47 J**	**8.66 J**
1,2,3,6,7,8-HxCDD	ng/kg	**77.9**	0.814 U	0.555 U	**12.1 J**	**1,030**	**369**	**38.0**	**33.6**	**11.6 J**	**9.78 J**
1,2,3,6,7,8-HxCDF	ng/kg	**8.56 J**	0.609 U	0.488 U	**2.41 J**	**194**	**52.9**	**3.34 J**	**4.75 J**	2.29 U	**1.80 J**
1,2,3,7,8,9-HxCDD	ng/kg	**19.3**	0.843 U	0.580 U	**3.61 J**	**181**	**71.9**	**8.53 J**	**7.88 J**	2.68 U	**3.21 J**
1,2,3,7,8,9-HxCDF	ng/kg	**6.61 J**	0.841 U	0.760 U	**1.15 J**	**132**	**30.3**	**1.31 J**	2.73 U	3.33 U	1.72 U
1,2,3,7,8-PeCDD	ng/kg	**2.98 J**	0.663 U	0.530 U	**1.03 J**	**20.7**	**7.40 J**	**1.20 J**	1.20 U	1.49 U	0.755 U
1,2,3,7,8-PeCDF	ng/kg	**1.68 J**	0.353 U	0.316 U	**1.22 J**	**37.8**	**9.95 J**	**0.658 J**	**0.977 J**	1.36 U	**0.884 J**
2,3,4,6,7,8-HxCDF	ng/kg	**6.43 J**	0.643 U	0.560 U	**2.42 J**	**153**	**47.0**	**2.11 J**	**2.82 J**	2.16 UX	**1.47 J**
2,3,4,7,8-PeCDF	ng/kg	**5.29 J**	0.269 U	0.244 U	1.63 UX	**112**	**30.5**	**1.89 J**	**2.10 J**	1.14 U	1.45 UX
2,3,7,8-TCDD	ng/kg	0.402 UX	0.308 U	0.178 U	0.305 U	1.15 UX	1.03 UX	0.376 UX	0.558 U	0.540 U	0.507 U
2,3,7,8-TCDF	ng/kg	0.539 UX	0.235 U	0.911 UB	0.491 UB	**4.14**	1.60 UX	0.453 UB	0.646 UX	0.322 UX	0.445 U
OCDD	ng/kg	**27,600**	**220**	**15.8 J**	**4,890**	**735,000 D**	**222,000 D**	**28,400**	**16,000**	**6,880**	**3,390**
OCDF	ng/kg	**3,640**	**15.1 J**	1.04 UX	**365**	**63,400 D**	**20,400**	**2,320**	**1,920**	**620**	**211**
Total HpCDD	ng/kg	**5,330**	**36.6**	3.96 UX	**829**	**73,400**	**28,500**	**4,240**	**2,430**	**933**	**555**
Total HpCDF	ng/kg	**4,400**	**17.1**	**1.34 J**	**488**	**57,700**	**20,300**	**2,290**	**2,090**	**667**	**397**
Total HxCDD	ng/kg	**373**	**3.81 J**	**0.390 J**	**73.6**	**4,720**	**1,760**	**268**	**160**	**56.6**	**61.9**
Total HxCDF	ng/kg	**999**	**1.14 J**	**0.290 J**	**172**	**16,000**	**5,030**	**395**	**427**	**141**	**157**
Total PeCDD	ng/kg	**22.5**	**1.91 J**	**1.34 J**	**5.98 J**	**131**	**53.9**	**9.74 J**	**8.97 J**	**1.49 J**	**3.50 J**
Total PeCDF	ng/kg	**77.3**	**0.379 J**	0.316 U	**21.0**	**1,360**	**404**	**34.3**	**22.3 J**	**10.9 J**	**7.08 J**
Total TCDD	ng/kg	**11.5**	**3.66**	**0.560 J**	**5.80**	**18.2**	**16.9**	**12.6**	**6.56**	**5.70**	**1.76 J**
Total TCDF	ng/kg	**6.93**	0.768 UB	0.447 UB	**2.28 J**	**70.7**	**48.8**	**15.8**	**3.95 J**	**1.31 J+**	**0.769 J**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**66.9**	**0.318**	**0.00474**	**11.1**	**1,200**	**369**	**43.1**	**30.1**	**10.4**	**7.02**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**67.1**	**1.12**	**0.662**	**11.5**	**1,200**	**370**	**43.3**	**31.1**	**12.3**	**7.97**
Miscellaneous											
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	**42,000 [41,000]**

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID: / Sample Depth (Feet): / Date Collected:	Units	SO-C71 0.5-1 7/31/2024	SO-C71 1-2 7/31/2024	SO-C71 2-4 7/31/2024	SO-C72 0-0.5 5/15/2024	SO-C72 0.5-1 5/15/2024	SO-C72 1-2 5/15/2024	SO-C72 2-4 5/15/2024	SO-C73 0-0.5 5/28/2024	SO-C73 0.5-1 5/28/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.11 U	**94**	**99**	0.1 U	0.1 U	0.097 U [0.1 U]	0.096 U	0.11 U	0.089 U
2-Methylnaphthalene	mg/kg	0.11 U	**120**	**190**	0.1 U	0.1 U	**0.028 J [0.1 U]**	0.096 U	0.11 U	0.089 U
Acenaphthene	mg/kg	0.11 U	**560 J+**	**350 J+**	0.1 U	0.1 U	0.097 U [0.1 U]	0.096 U	0.11 U	0.089 U
Acenaphthylene	mg/kg	**0.03 J**	**9.4 J**	**3.6 J**	0.1 U	**0.028 J**	**0.27 [0.1 U]**	0.096 U	**0.1 J**	**0.033 J**
Anthracene	mg/kg	0.11 U	**160**	**77**	0.1 U	**0.05 J**	**0.42 J [0.1 UJ]**	**0.03 J**	**0.094 J**	**0.026 J**
Benzo(a)anthracene	mg/kg	0.11 U	**160 J+**	**75 J+**	0.1 U	0.1 U	**0.17 [0.1 U]**	0.096 U	0.11 U	0.089 U
Benzo(a)pyrene	mg/kg	**0.054 J**	**57**	**27**	0.1 U	0.1 U	**0.39 [0.1 U]**	0.096 U	**0.071 J**	0.089 U
Benzo(b)fluoranthene	mg/kg	**0.035 J**	**90 J+**	**40 J+**	**0.041 J**	**0.056 J**	**0.51 J [0.1 UJ]**	0.096 U	**0.12**	**0.055 J**
Benzo(g,h,i)perylene	mg/kg	**0.084 J**	**18 J**	**8.1 J+**	**0.047 J**	**0.11**	**2.7 J [0.078 J]**	0.096 U	**0.25**	**0.099**
Benzo(k)fluoranthene	mg/kg	**0.037 J**	**32 J+**	**17 J+**	0.1 U	0.1 U	0.097 U [0.1 U]	0.096 U	**0.069 J**	0.089 U
Chrysene	mg/kg	0.11 U	**130 J+**	**65 J+**	0.1 U	0.1 U	**0.18 [0.1 U]**	0.096 U	**0.085 J**	0.089 U
Dibenzo(a,h)anthracene	mg/kg	0.11 U	**6.2 J**	4.5 U	0.1 U	0.1 U	**0.39 [0.1 U]**	0.096 U	0.11 U	0.089 U
Fluoranthene	mg/kg	0.11 U	**920 J+**	**430**	**0.036 J**	**0.039 J**	**0.15 [0.1 U]**	**0.038 J**	**0.048 J**	**0.024 J**
Fluorene	mg/kg	0.11 U	**390 J+**	**240 J+**	0.1 U	0.1 U	**0.056 J [0.1 U]**	0.096 U	0.11 U	0.089 U
Indeno(1,2,3-cd)pyrene	mg/kg	**0.069 J**	**15 J**	**7.4 J+**	0.1 U	**0.074 J**	**1.9 J [0.061 J]**	0.096 U	**0.16**	**0.053 J**
Naphthalene	mg/kg	0.11 U	**410**	**1,000 J+**	**0.021 J**	0.1 U	**0.14 [0.1 U]**	0.096 U	0.11 U	0.089 U
Phenanthrene	mg/kg	0.11 U	**1,500 J+**	**740 J+**	0.1 U	0.1 U	**0.12 [0.1 U]**	**0.043 J**	0.11 U	0.089 U
Pyrene	mg/kg	0.11 U	**560 J+**	**270 J+**	**0.038 J**	**0.04 J**	**0.19 [0.1 U]**	**0.04 J**	**0.059 J**	0.089 U
Total PAHs-16 (ND=0)	mg/kg	**0.309**	**5,020**	**3,350**	**0.183**	**0.397**	**7.59 [0.139]**	**0.151**	**1.06**	**0.29**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.859**	**5,020**	**3,350**	**0.733**	**0.847**	**7.68 [0.839]**	**0.727**	**1.39**	**0.735**
BaP-TE (ND=0)	mg/kg	**0.0648**	**90.2**	**39.5**	**0.0041**	**0.013**	**1.04 [0.0061]**	ND	**0.0998**	**0.0108**
BaP-TE (ND=1/2 DL)	mg/kg	**0.125**	**90.2**	**41.7**	**0.115**	**0.119**	**1.04 [0.117]**	**0.111**	**0.16**	**0.105**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**837**	**6,010**	**805**	**59.2**	**43,000 D**	**1,670 J [2,980 J]**	**9.28 J**	**4,880**	**8,190**
1,2,3,4,6,7,8-HpCDF	ng/kg	**238**	**1,120**	**229**	**15.4**	**11,900**	**465 [779 J]**	**2.30 J**	**1,330**	**1,200**
1,2,3,4,7,8,9-HpCDF	ng/kg	**15.3**	**63.2**	**10.7 J**	**1.77 J**	**642**	**26.0 [46.7]**	1.16 U	**108**	**96.7**
1,2,3,4,7,8-HxCDD	ng/kg	**2.20 J**	**7.57 J**	**1.43 J**	0.683 UX	**80.2**	3.28 U [7.04 J]	1.28 U	**13.8**	**15.6**
1,2,3,4,7,8-HxCDF	ng/kg	**10.5 J**	**53.9**	**7.00 J**	**2.72 J**	**368**	**12.5 [20.3]**	0.834 U	**92.7**	**81.7**
1,2,3,6,7,8-HxCDD	ng/kg	**21.9**	**94.1**	**19.2**	**2.79 J**	**1,030**	**46.3 [76.0]**	1.26 U	**122**	**142**
1,2,3,6,7,8-HxCDF	ng/kg	2.02 U	**10.0 J**	**1.48 J**	0.697 U	**73.4**	3.03 U [3.66 UX]	0.823 U	**20.7**	**17.1**
1,2,3,7,8,9-HxCDD	ng/kg	**4.86 J**	**20.2**	**4.13 J**	**1.13 J**	**174**	**7.50 J [14.4]**	1.35 U	**30.4**	**43.7**
1,2,3,7,8,9-HxCDF	ng/kg	3.18 U	2.84 U	1.80 U	0.848 U	**33.1**	3.62 U [3.14 U]	0.966 U	**18.4**	**18.9**
1,2,3,7,8-PeCDD	ng/kg	0.850 UX	**2.70 J**	0.953 U	0.849 U	**16.8**	0.777 U [1.24 J]	1.22 U	**3.93 J**	3.27 UX
1,2,3,7,8-PeCDF	ng/kg	0.943 UX	1.66 UX	0.597 U	0.446 U	**13.0**	0.949 U [1.15 J]	0.506 U	**6.49 J**	**6.36 J**
2,3,4,6,7,8-HxCDF	ng/kg	3.29 UX	**7.20 J**	0.818 UX	0.779 UX	**52.5**	**4.75 J [3.80 UX]**	0.931 U	**29.8**	**30.1**
2,3,4,7,8-PeCDF	ng/kg	**1.57 J**	4.97 UX	**0.870 J**	0.394 U	**34.8**	1.06 UX [1.89 J]	0.449 U	**11.6 J**	2.27 UX
2,3,7,8-TCDD	ng/kg	0.305 UX	0.643 UX	0.434 UX	0.427 U	1.39 UX	0.547 U [0.340 U]	0.487 U	0.506 UX	0.513 UX
2,3,7,8-TCDF	ng/kg	0.413 U	0.519 U	0.658 U	0.269 U	**1.37 J**	0.382 U [0.344 U]	0.313 U	0.912 UX	**1.03 J**
OCDD	ng/kg	**11,600**	**99,900 D**	**9,220**	**647**	**592,000 D**	**23,800 [36,800 D]**	**80.1**	**73,300 D**	**93,300 D**
OCDF	ng/kg	**1,230**	**5,540**	**1,260**	**54.7**	**62,500 D**	**2,530 [4,090]**	**8.50 J**	**5,710**	**5,050**
Total HpCDD	ng/kg	**1,560**	**11,800**	**1,490**	**147**	**77,900**	**3,190 J [5,620 J]**	**16.4**	**9,000**	**14,200**
Total HpCDF	ng/kg	**1,280**	**5,490**	**1,120**	**91.1**	**62,800**	**2,510 [4,140]**	**10.6 J**	**6,530**	**5,810**
Total HxCDD	ng/kg	**90.6**	**528**	**109**	**13.7**	**4,350**	**179 J [332 J]**	**2.03 J**	**523**	**674**
Total HxCDF	ng/kg	**236**	**1,080**	**184**	**35.5**	**11,400**	**438 [708]**	**2.03 J**	**1,660**	**1,490**
Total PeCDD	ng/kg	1.73 UX	**27.3**	**16.4**	**1.57 J**	**98.7**	**2.39 J [4.01 J]**	**3.50 J**	**27.7**	**24.9**
Total PeCDF	ng/kg	**14.7**	**60.2**	**12.5**	**4.93 J**	**458**	**16.3 [27.9]**	0.506 U	**160**	**148**
Total TCDD	ng/kg	0.305 UX	**11.7**	**12.4**	**7.27**	**3.62**	0.486 UX [0.340 U]	**0.873 J**	**3.97**	**7.05**
Total TCDF	ng/kg	0.413 U	**13.1**	**4.34**	**0.628 J**	**22.6**	**0.970 J [0.313 J]**	0.556 UX	**9.35**	**9.65**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**19.2**	**126**	**17.2**	**1.64**	**961**	**36.6 [63.9]**	**0.142**	**127**	**160**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**20.2**	**127**	**18**	**2.51**	**961**	**38 [64.7]**	**1.46**	**128**	**162**
Miscellaneous										
Total Organic Carbon	mg/kg	**31,000 J**	**86,000**	**56,000**	NA	NA	NA [NA]	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C73	SO-C73	SO-C74	SO-C74	SO-C74	SO-C74	SO-C75	SO-C75	SO-C75
Sample Depth (Feet):		1-2	2-4	0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2
Date Collected:	Units	5/28/2024	5/28/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	7/29/2024	7/29/2024	7/29/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	0.11 U	0.1 U
2-Methylnaphthalene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	0.11 U	0.1 U
Acenaphthene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	0.11 U	0.1 U
Acenaphthylene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.21**	0.1 U
Anthracene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.33**	0.1 U
Benzo(a)anthracene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.11**	0.1 U
Benzo(a)pyrene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.63**	0.1 U
Benzo(b)fluoranthene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.66**	**0.048 J**
Benzo(g,h,i)perylene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.88**	0.1 U
Benzo(k)fluoranthene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.13**	0.1 U
Chrysene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.12**	0.1 U
Dibenzo(a,h)anthracene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.18**	0.1 U
Fluoranthene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.093 J**	0.1 U
Fluorene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.04 J**	0.1 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.81**	0.1 U
Naphthalene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.11**	**0.037 J**
Phenanthrene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.073 J**	0.1 U
Pyrene	mg/kg	0.088 U	0.093 U	0.11 U	0.11 U	0.099 U [0.11 U]	0.1 U	0.12 U	**0.11**	0.1 U
Total PAHs-16 (ND=0)	mg/kg	ND	ND	ND	ND	ND	ND	ND	**4.49**	**0.085**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.704**	**0.744**	**0.88**	**0.88**	**0.792 [0.88]**	**0.8**	**0.96**	**4.54**	**0.785**
BaP-TE (ND=0)	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.969**	**0.0048**
BaP-TE (ND=1/2 DL)	mg/kg	**0.102**	**0.107**	**0.127**	**0.127**	**0.114 [0.127]**	**0.116**	**0.139**	**0.969**	**0.115**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**185**	**364**	**75.1**	**1,690**	**479 J [30.4 J]**	**3.13 J**	**122**	**22,500 D**	**12.6**
1,2,3,4,6,7,8-HpCDF	ng/kg	**22.5**	**51.4**	**19.1**	**470**	**134 J [8.43 J]**	**1.05 J**	**31.2**	**1,560 J**	**2.59 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	**2.50 J**	4.24 UX	**2.47 J**	**39.2**	**10.9 J [0.688 U]**	0.726 U	**3.55 J**	**102**	1.66 U
1,2,3,4,7,8-HxCDD	ng/kg	1.05 U	1.59 U	0.986 U	**10.9 J**	**2.57 J [0.680 U]**	0.600 U	1.50 U	**42.4**	1.67 U
1,2,3,4,7,8-HxCDF	ng/kg	**1.96 J**	**3.18 J**	**2.31 J**	**31.2**	**9.98 J [0.521 UX]**	0.484 U	**3.84 J**	**90.1**	0.825 U
1,2,3,6,7,8-HxCDD	ng/kg	**5.15 J**	**10.8 J**	**3.40 J**	**69.8**	**18.2 J [0.965 UX]**	0.635 U	**4.36 J**	**288**	1.64 U
1,2,3,6,7,8-HxCDF	ng/kg	0.831 U	**1.15 J**	0.914 U	**8.12 J**	**2.51 J [0.479 U]**	0.501 U	0.994 U	**18.5**	0.800 U
1,2,3,7,8,9-HxCDD	ng/kg	1.12 U	**4.33 J**	0.959 U	**23.0**	**5.89 J [0.705 U]**	0.635 U	1.68 U	**86.5**	2.08 U
1,2,3,7,8,9-HxCDF	ng/kg	1.04 U	1.50 U	1.13 U	**2.34 J**	**1.51 J [0.554 U]**	0.637 U	**0.909 J**	**11.1 J**	1.67 U
1,2,3,7,8-PeCDD	ng/kg	0.411 U	0.491 U	**0.479 J**	**5.40 J**	1.29 UX [0.501 U]	0.372 U	0.736 UX	**5.32 J**	1.19 U
1,2,3,7,8-PeCDF	ng/kg	0.497 U	0.475 U	0.539 UX	**2.46 J**	0.742 UX [0.263 UX]	0.348 U	0.612 U	**4.25 J**	0.635 U
2,3,4,6,7,8-HxCDF	ng/kg	**0.537 J**	**1.91 J**	1.01 U	**6.41 J**	**2.47 J [0.501 U]**	0.577 U	**1.57 J**	**18.0**	0.973 U
2,3,4,7,8-PeCDF	ng/kg	0.411 U	0.516 U	0.719 UX	**3.17 J**	**2.37 J [0.305 U]**	0.319 U	0.739 UX	**7.14 J**	0.538 U
2,3,7,8-TCDD	ng/kg	0.198 U	0.239 U	0.320 U	0.660 U	0.355 UX [0.272 U]	0.304 U	0.503 UX	0.711 UX	0.912 U
2,3,7,8-TCDF	ng/kg	0.252 U	0.276 U	0.241 U	0.465 UX	0.304 U [0.193 U]	0.225 U	0.564 U	**1.07 J**	0.734 U
OCDD	ng/kg	**1,750 J**	**3,110**	**639**	**18,800**	**6,490 J [419 J]**	**31.4**	**1,540**	**163,000 D**	**155**
OCDF	ng/kg	**88.2**	**177**	**69.8**	**2,180**	**613 J [39.0 J]**	**3.61 J**	**117**	**6,980**	**8.44 J**
Total HpCDD	ng/kg	**314**	**610**	**174**	**3,460**	**977 J [54.9 J]**	**6.78 J**	**263**	**34,400**	**25.1**
Total HpCDF	ng/kg	**104**	**176**	**127**	**3,420**	**914 J [40.6 J]**	**4.75 J**	**180**	**8,530**	**12.2**
Total HxCDD	ng/kg	**22.3**	**51.3**	**23.8**	**385**	**98.6 J [3.72 J]**	**3.97 J**	**29.3**	**2,070**	**3.73 J**
Total HxCDF	ng/kg	**10.0 J**	**59.1**	**53.5**	**1,190**	**285 J [9.48 J]**	**1.09 J**	**65.7**	**2,120**	2.90 UX
Total PeCDD	ng/kg	**0.702 J**	**1.41 J**	**6.42 J**	**32.1**	**12.0 J [1.74 J]**	**7.73 J**	**6.61 J**	**51.5**	**6.53 J**
Total PeCDF	ng/kg	**3.32 J**	**4.39 J**	**7.61 J**	**121**	**31.5 J [1.21 UJX]**	0.286 UX	**4.61 J**	**155**	0.635 U
Total TCDD	ng/kg	**1.12 J**	**0.619 J**	**4.89**	**7.05**	**5.02 [1.11 J]**	**7.41**	**3.69**	**10.9**	**16.1**
Total TCDF	ng/kg	0.252 U	0.276 U	**1.23 J**	**15.4**	**3.70 [0.631 J]**	0.374 UX	**0.720 J**	**12.3**	0.734 U
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**3.42**	**7.28**	**2.23**	**49.9**	**13.4 [0.526]**	**0.0523**	**3.13**	**356**	**0.201**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**4**	**7.92**	**2.77**	**50.2**	**14.2 [1.2]**	**0.662**	**4.11**	**356**	**1.87**
Miscellaneous										
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA [NA]	NA	**33,000**	**32,000**	**23,000**

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID: / Sample Depth (Feet): / Date Collected:	Units	SO-C75 2-4 7/29/2024	SO-C76 0-0.5 5/15/2024	SO-C76 0.5-1 5/15/2024	SO-C76 1-2 5/15/2024	SO-C76 2-4 5/15/2024	SO-C79 0-0.5 5/14/2024	SO-C79 0.5-1 5/14/2024	SO-C79 1-2 5/14/2024	SO-C79 2-4 5/14/2024
Semivolatile Organic Compounds										
1-Methylnaphthalene	mg/kg	0.097 U	**0.049 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.14**	**0.05 J**	0.089 U	0.088 U
2-Methylnaphthalene	mg/kg	0.097 U	**0.11**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.27**	**0.081 J**	0.089 U	0.088 U
Acenaphthene	mg/kg	0.097 U	**0.23**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.44**	**0.13**	0.089 U	**0.083 J**
Acenaphthylene	mg/kg	0.097 U	**0.031 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.081 J**	**0.039 J**	0.089 U	0.088 U
Anthracene	mg/kg	0.097 U	**0.11**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.2**	**0.088 J**	0.089 U	**0.025 J**
Benzo(a)anthracene	mg/kg	0.097 U	**0.095 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.17**	**0.074 J**	0.089 U	**0.046 J**
Benzo(a)pyrene	mg/kg	0.097 U	**0.056 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.13**	**0.047 J**	0.089 U	0.088 U
Benzo(b)fluoranthene	mg/kg	0.097 U	**0.068 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.22**	**0.11**	0.089 U	**0.034 J**
Benzo(g,h,i)perylene	mg/kg	0.097 U	**0.043 J**	0.1 U	**0.073 J [0.056 J]**	0.092 U	**0.14**	**0.067 J**	0.089 U	0.088 U
Benzo(k)fluoranthene	mg/kg	0.097 U	0.11 U	0.1 U	0.1 U [0.099 U]	0.092 U	**0.078 J**	**0.039 J**	0.089 U	0.088 U
Chrysene	mg/kg	0.097 U	**0.099 J**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.18**	**0.087 J**	0.089 U	0.088 U
Dibenzo(a,h)anthracene	mg/kg	0.097 U	0.11 U	0.1 U	0.1 U [0.099 U]	0.092 U	0.12 U	0.1 U	0.089 U	0.088 U
Fluoranthene	mg/kg	0.097 U	**0.4**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.67**	**0.25**	**0.037 J**	**0.21**
Fluorene	mg/kg	0.097 U	**0.15**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.33**	**0.11**	0.089 U	**0.069 J**
Indeno(1,2,3-cd)pyrene	mg/kg	0.097 U	0.11 U	0.1 U	0.1 U [0.099 U]	0.092 U	**0.12**	**0.056 J**	0.089 U	0.088 U
Naphthalene	mg/kg	0.097 U	**0.36**	0.1 U	0.1 U [0.099 U]	0.092 U	**1.1**	**0.24**	**0.058 J**	**0.058 J**
Phenanthrene	mg/kg	0.097 U	**0.53**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.97**	**0.35**	**0.048 J**	**0.25**
Pyrene	mg/kg	0.097 U	**0.29**	0.1 U	0.1 U [0.099 U]	0.092 U	**0.46**	**0.18**	0.089 U	**0.13**
Total PAHs-16 (ND=0)	mg/kg	ND	**2.46**	ND	**0.073 [0.056]**	ND	**5.29**	**1.87**	**0.143**	**0.905**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.776**	**2.63**	**0.8**	**0.823 [0.799]**	**0.736**	**5.35**	**1.92**	**0.722**	**1.21**
BaP-TE (ND=0)	mg/kg	ND	**0.0724**	ND	ND	ND	**0.182**	**0.0715**	ND	**0.008**
BaP-TE (ND=1/2 DL)	mg/kg	**0.112**	**0.133**	**0.116**	**0.116 [0.114]**	**0.106**	**0.242**	**0.121**	**0.103**	**0.101**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	ng/kg	**9.97 J**	**442 J**	**1,130**	**249 J [9,220 J]**	**10.7 J**	**1,280**	**25.1**	**104**	**2.63 J**
1,2,3,4,6,7,8-HpCDF	ng/kg	**3.11 J**	**143 J**	**395 J**	**64.7 J [2,610 J]**	2.75 UX	**377**	**5.02 J**	**28.6**	**0.906 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	1.45 U	**11.8 J**	**31.7**	**6.32 J [215 J]**	0.585 U	**17.3**	1.97 U	1.27 UX	0.748 U
1,2,3,4,7,8-HxCDD	ng/kg	1.08 U	4.23 U	**3.37 J**	0.955 UJ [28.1 J]	0.585 U	4.75 UX	1.27 U	1.36 U	0.630 U
1,2,3,4,7,8-HxCDF	ng/kg	0.585 U	**13.2**	**27.0**	**5.13 J [213 J]**	0.393 U	**10.7 J**	0.987 U	0.876 UX	0.523 U
1,2,3,6,7,8-HxCDD	ng/kg	1.09 U	12.2 UX	**28.0**	**8.35 J [291 J]**	0.589 U	**32.2**	1.29 U	**3.09 J**	0.703 U
1,2,3,6,7,8-HxCDF	ng/kg	0.625 U	**4.70 J**	**4.81 J**	**1.03 J [36.5 J]**	0.433 U	**3.62 J**	1.05 U	1.02 U	0.279 U
1,2,3,7,8,9-HxCDD	ng/kg	1.21 U	**4.60 J**	**6.25 J**	**1.97 J [66.3 J]**	0.588 U	9.52 UX	1.25 U	1.35 U	0.649 U
1,2,3,7,8,9-HxCDF	ng/kg	1.11 U	4.30 UX	**3.94 J**	**0.655 J [8.08 UX]**	0.529 U	1.88 UX	1.51 U	1.49 U	0.791 U
1,2,3,7,8-PeCDD	ng/kg	1.20 U	3.81 U	**1.08 J**	0.420 U [10.4 J]	0.429 U	1.30 UX	0.808 U	0.844 U	0.507 U
1,2,3,7,8-PeCDF	ng/kg	0.474 U	2.83 U	**2.58 J**	0.330 U [6.24 J]	0.195 U	**1.04 J**	0.530 U	0.541 U	0.428 U
2,3,4,6,7,8-HxCDF	ng/kg	0.709 U	**3.59 J**	**5.66 J**	**0.567 J [24.8 J]**	0.446 U	**4.24 J**	1.15 U	1.12 U	0.586 U
2,3,4,7,8-PeCDF	ng/kg	0.442 U	2.27 U	**8.49 J**	0.998 UX [24.6]	0.185 U	1.07 UX	0.450 U	0.470 U	0.341 U
2,3,7,8-TCDD	ng/kg	0.616 U	0.821 U	0.339 UX	0.300 U [0.973 UX]	0.237 U	0.698 U	0.419 U	0.687 U	0.697 U
2,3,7,8-TCDF	ng/kg	0.422 U	1.21 U	**1.04 J**	0.272 U [0.923 J]	0.165 U	0.404 UX	0.221 U	0.258 U	0.284 U
OCDD	ng/kg	**120**	**5,690 J**	**22,000 J**	**3,820 J [111,000 DJ]**	**128**	**13,200**	**327**	**1,340**	**25.4**
OCDF	ng/kg	10.4 UX	**490 J**	**2,210 J**	**325 J [11,800 J]**	**13.4 J**	**1,830**	**20.9 J**	**138**	1.73 UX
Total HpCDD	ng/kg	**19.3**	**922**	**2,090**	**505 J [18,800 J]**	**21.8**	**2,300**	**48.7**	**189**	**5.00 J**
Total HpCDF	ng/kg	**3.11 J**	**706**	**1,960**	**431 J [17,500 J]**	**14.4**	**1,770**	**20.8**	**128**	**2.49 J**
Total HxCDD	ng/kg	4.68 U	**55.4**	**114**	**41.8 J [1,370 J]**	3.03 UX	**142**	**1.56 J**	**14.7**	**0.517 J**
Total HxCDF	ng/kg	**2.08 J**	**212 J**	**507**	**139 J [4,770 J]**	**5.55 J**	**311**	**4.52 J**	**22.3**	**0.463 J**
Total PeCDD	ng/kg	**5.81 J**	**6.70 J**	**7.18 J**	**3.27 J [52.0 J]**	**5.17 J**	**4.79 J**	0.808 U	0.591 UX	0.507 U
Total PeCDF	ng/kg	0.474 U	**10.6 J**	**56.9**	**10.1 J [332 J]**	0.780 UX	**25.2**	0.447 UX	**2.52 J**	0.348 UX
Total TCDD	ng/kg	**8.56**	2.15 U	**3.59**	**9.91 [6.26]**	**4.65**	**5.25**	**1.25 J**	**2.78**	0.697 U
Total TCDF	ng/kg	0.481 UX	1.21 U	**5.06**	0.671 UJX [19.2 J]	**0.476 J**	**3.92**	**0.469 J**	**0.593 J**	0.121 UX
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**0.167**	**10.4**	**34.5**	**6.21 [241]**	**0.149**	**26.4**	**0.406**	**2.08**	**0.043**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**1.5**	**14.2**	**34.7**	**6.79 [242]**	**0.716**	**28.3**	**1.54**	**3.3**	**0.929**
Miscellaneous										
Total Organic Carbon	mg/kg	**21,000**	NA	NA	NA [NA]	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C80	SO-C80	SO-C80	SO-C80	SO-C81	SO-C81	SO-C81	SO-C81	SO-C81	SO-C81
Sample Depth (Feet):		0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-1.6	1.6-2	2-2.5	2.5-4
Date Collected:	Units	6/13/2024	6/13/2024	6/13/2024	6/13/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
Semivolatile Organic Compounds											
1-Methylnaphthalene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	0.1 U	1.1 U	**820 D**	**100 D**
2-Methylnaphthalene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	0.1 U	1.1 U	**1,200 D**	**200 D**
Acenaphthene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	0.1 U	**0.63 J**	**3,700 D**	**310 D**
Acenaphthylene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.095 J**	**0.14**	**9.5**	**47**	**1.5**
Anthracene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.11**	**0.21**	**9.9**	**650 D**	**53 D**
Benzo(a)anthracene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.065 J**	**0.13**	**34**	**920 D**	**68 D**
Benzo(a)pyrene	mg/kg	0.11 U	**0.046 J**	0.096 U	0.092 U	0.11 U	**0.097 J**	**0.43**	**90**	**410 D**	**33 D**
Benzo(b)fluoranthene	mg/kg	0.11 U	**0.049 J**	**0.036 J**	0.092 U	0.11 U	**0.15**	**0.56**	**110**	**520 D**	**49 D**
Benzo(g,h,i)perylene	mg/kg	0.11 U	**0.047 J**	**0.042 J**	0.092 U	0.11 U	**0.32**	**0.64**	**38**	**92**	**7**
Benzo(k)fluoranthene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.047 J**	**0.18**	**38**	**140**	**12**
Chrysene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.15**	**0.38**	**88**	**770 D**	**61 D**
Dibenzo(a,h)anthracene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	**0.1**	**7.2**	**33**	**2.5**
Fluoranthene	mg/kg	**0.072 J**	0.1 U	**0.045 J**	0.092 U	0.11 U	**0.097 J**	**0.21**	**78**	**5,100 D**	**380 D**
Fluorene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	0.1 U	**1.5**	**2,300 D**	**200 D**
Indeno(1,2,3-cd)pyrene	mg/kg	0.11 U	0.1 U	0.096 U	0.092 U	0.11 U	**0.23**	**0.48**	**34**	**92**	**6.5**
Naphthalene	mg/kg	**0.079 J**	0.1 U	0.096 U	0.092 U	0.11 U	0.1 U	0.1 U	**1 J**	**3,500 D**	**920 D**
Phenanthrene	mg/kg	**0.099 J**	0.1 U	**0.058 J**	0.092 U	0.11 U	**0.044 J**	**0.044 J**	**1.2**	**6,400 D**	**600 D**
Pyrene	mg/kg	**0.07 J**	0.1 U	0.096 U	0.092 U	0.11 U	**0.089 J**	**0.12**	**7.1**	**3,400 D**	**250 D**
Total PAHs-16 (ND=0)	mg/kg	**0.32**	**0.142**	**0.181**	ND	ND	**1.49**	**3.62**	**548**	**28,100**	**2,950**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**0.98**	**0.792**	**0.757**	**0.736**	**0.88**	**1.69**	**3.77**	**548**	**28,100**	**2,950**
BaP-TE (ND=0)	mg/kg	ND	**0.0509**	**0.0036**	ND	ND	**0.142**	**0.649**	**115**	**598**	**48**
BaP-TE (ND=1/2 DL)	mg/kg	**0.127**	**0.111**	**0.11**	**0.106**	**0.127**	**0.192**	**0.649**	**115**	**598**	**48**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	ng/kg	**75.4**	**920**	**256**	6.92 UX	**88.0**	**830**	**40,200 D**	**43,900 D**	**809**	**1,200 J**
1,2,3,4,6,7,8-HpCDF	ng/kg	**18.3**	**273**	**64.9**	1.79 UX	**20.2**	**198**	**8,910**	**11,700 J**	**230**	**305 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	**2.20 J**	**21.7**	3.64 UX	1.42 U	**3.01 J**	**18.9**	**641**	**838**	**13.4**	**28.4 J**
1,2,3,4,7,8-HxCDD	ng/kg	2.08 U	**3.81 J**	1.69 U	1.01 U	1.05 U	**4.36 J**	**75.7**	**80.1**	**2.53 J**	4.22 U
1,2,3,4,7,8-HxCDF	ng/kg	**2.22 J**	**20.1**	2.06 UX	0.643 U	**3.28 J**	**21.1**	**509**	**726**	**10.6 J**	**27.4**
1,2,3,6,7,8-HxCDD	ng/kg	**2.92 J**	**24.8**	**7.35 J**	1.04 U	2.94 UX	**22.3**	**917**	**1,070**	**20.9**	**32.3**
1,2,3,6,7,8-HxCDF	ng/kg	1.02 UX	**4.50 J**	1.38 U	0.675 U	0.917 U	**4.96 J**	**108**	**119**	2.55 UX	5.40 UX
1,2,3,7,8,9-HxCDD	ng/kg	**1.92 J**	**7.25 J**	**2.33 J**	1.06 U	1.04 U	**7.06 J**	**193**	**210**	**6.80 J**	8.35 UX
1,2,3,7,8,9-HxCDF	ng/kg	1.45 U	3.39 UX	2.07 U	1.07 U	**0.859 J**	3.24 UX	**50.2**	**71.5**	2.76 U	4.13 UX
1,2,3,7,8-PeCDD	ng/kg	0.975 U	1.15 UX	1.18 U	0.784 U	0.488 U	**2.28 J**	**19.6**	**31.5**	**2.29 J**	1.47 UX
1,2,3,7,8-PeCDF	ng/kg	**0.647 J**	1.81 UX	0.816 U	0.521 U	**0.458 J**	**1.66 J**	**35.8**	**12.7**	0.653 UX	1.65 UX
2,3,4,6,7,8-HxCDF	ng/kg	**0.811 J**	**4.29 J**	1.61 U	0.745 U	0.758 UX	**5.86 J**	**79.2**	**107**	2.09 U	3.05 UX
2,3,4,7,8-PeCDF	ng/kg	0.669 UX	**3.43 J**	0.645 U	0.442 U	**0.808 J**	**3.17 J**	**61.1**	**42.8**	1.26 UX	**3.59 J**
2,3,7,8-TCDD	ng/kg	0.367 U	0.373 U	0.470 U	0.499 U	0.448 U	0.943 U	**4.21**	**8.54**	1.44 UX	2.00 U
2,3,7,8-TCDF	ng/kg	0.419 U	**0.419 J**	0.418 U	0.390 U	0.320 U	0.218 UX	**4.24**	1.21 UX	0.493 U	0.700 U
OCDD	ng/kg	**1,030**	**11,400**	**3,150**	**95.5**	**1,200**	**10,400**	**552,000 D**	**768,000 D**	**11,900**	**19,300**
OCDF	ng/kg	**55.6**	**960**	**313**	**6.71 J**	**70.5**	**704**	**45,000 D**	**68,400 D**	**1,200**	**1,290**
Total HpCDD	ng/kg	**159**	**1,820**	**485**	**6.22 J**	**208**	**1,780**	**63,800**	**73,800**	**1,550**	**2,150**
Total HpCDF	ng/kg	**81.8**	**1,310**	**377**	8.21 U	**139**	**1,010**	**44,400**	**60,000**	**1,170**	**1,430**
Total HxCDD	ng/kg	**21.9**	**136**	**41.7**	**4.54 J**	**20.3**	**149**	**4,610**	**4,940**	**117**	**146**
Total HxCDF	ng/kg	**30.3**	**371**	**70.3**	**2.77 J**	**60.8**	**342**	**10,500**	**12,500**	**217**	**600**
Total PeCDD	ng/kg	**3.68 J**	**8.21 J**	**6.96 J**	**3.78 J**	**4.30 J**	**14.7**	**154**	**256**	**17.7**	**4.64 J**
Total PeCDF	ng/kg	**5.61 J**	**35.7**	**10.4 J**	**0.422 J**	**8.41 J**	**35.3**	**781**	**753**	**27.6**	**47.8**
Total TCDD	ng/kg	**2.73**	**5.10**	**4.69**	**4.04**	2.79 UX	**6.26**	**80.7**	**188**	**11.2**	**8.18**
Total TCDF	ng/kg	**0.752 J**	**3.25**	**2.41 J**	1.38 UX	0.477 UX	**0.859 J**	**34.4**	**40.2**	**17.0**	**1.25 J**
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**2.09**	**23.4**	**5.22**	**0.0307**	**2.16**	**23.6**	**913**	**1,110**	**20.8**	**28.6**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**3.11**	**24.4**	**6.63**	**1.13**	**2.98**	**24.3**	**913**	**1,110**	**22.1**	**31.6**
Miscellaneous											
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

ARCADIS

Location ID:		SO-C82	SO-C82	SO-C82	SO-C82	SO-C88	SO-C88	SO-C88	SO-C88
Sample Depth (Feet):		0-0.5	0.5-1	1-2	2-4	0-0.5	0.5-1	1-2	2-4
Date Collected:	Units	7/29/2024	7/29/2024	7/29/2024	7/29/2024	5/29/2024	5/29/2024	5/29/2024	05/29/24
Semivolatile Organic Compounds									
1-Methylnaphthalene	mg/kg	0.11 U	0.1 U	0.094 U	0.094 U	0.096 U	0.091 U	**0.12 J**	**0.063 J**
2-Methylnaphthalene	mg/kg	0.11 U	0.1 U	0.094 U	0.094 U	0.096 U	0.091 U	**0.23 J**	**0.13**
Acenaphthene	mg/kg	**0.034 J**	**0.049 J**	0.094 U	0.094 U	0.096 U	0.091 U	**0.31 J**	**0.058 J**
Acenaphthylene	mg/kg	**0.24**	**0.62**	0.094 U	0.094 U	**0.032 J**	**0.047 J**	**6.7**	**0.3**
Anthracene	mg/kg	**0.53**	**0.84**	0.094 U	0.094 U	**0.037 J**	**0.054 J**	**8.5**	**0.4**
Benzo(a)anthracene	mg/kg	**0.13**	**0.31**	0.094 U	0.094 U	0.096 U	**0.055 J**	**3.8**	**0.12**
Benzo(a)pyrene	mg/kg	**1.5**	**1.8**	**0.069 J**	0.094 U	**0.069 J**	**0.095**	**11**	**0.78**
Benzo(b)fluoranthene	mg/kg	**1.1**	**1.2**	0.094 U	0.094 U	**0.097**	**0.15**	**11**	**0.6**
Benzo(g,h,i)perylene	mg/kg	**1.5**	**5.6**	**0.17**	0.094 U	**0.11**	**0.21**	**34**	**2.4**
Benzo(k)fluoranthene	mg/kg	**0.14**	**0.31**	0.094 U	0.094 U	0.096 U	0.091 U	**4.1**	**0.16**
Chrysene	mg/kg	**0.25**	**0.41**	0.094 U	0.094 U	**0.11**	**0.11**	**9**	**0.2**
Dibenzo(a,h)anthracene	mg/kg	**0.25**	**0.57**	0.094 U	0.094 U	0.096 U	0.091 U	**4**	**0.28**
Fluoranthene	mg/kg	**0.23**	**0.47**	0.094 U	0.094 U	**0.04 J**	**0.056 J**	**4**	**0.099**
Fluorene	mg/kg	**0.057 J**	**0.11**	0.094 U	0.094 U	0.096 U	0.091 U	**0.79**	**0.069 J**
Indeno(1,2,3-cd)pyrene	mg/kg	**1.2**	**3.5**	**0.11**	0.094 U	**0.088 J**	**0.14**	**20**	**1.5**
Naphthalene	mg/kg	**0.03 J**	0.1 U	0.094 U	0.094 U	**0.078 J**	**0.11**	**1.5**	**0.98**
Phenanthrene	mg/kg	**0.069 J**	**0.12**	0.094 U	0.094 U	0.096 U	**0.024 J**	**0.84**	**0.039 J**
Pyrene	mg/kg	**0.29**	**0.47**	0.094 U	0.094 U	**0.038 J**	**0.061 J**	**6.7**	**0.33**
Total PAHs-16 (ND=0)	mg/kg	**7.55**	**16.4**	**0.349**	ND	**0.699**	**1.11**	**126**	**8.32**
Total PAHs-16 (ND=1/2 DL)	mg/kg	**7.55**	**16.4**	**0.96**	**0.752**	**0.987**	**1.29**	**126**	**8.32**
BaP-TE (ND=0)	mg/kg	**1.99**	**2.87**	**0.08**	ND	**0.0876**	**0.13**	**18.5**	**1.28**
BaP-TE (ND=1/2 DL)	mg/kg	**1.99**	**2.87**	**0.137**	**0.109**	**0.141**	**0.176**	**18.5**	**1.28**
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans									
1,2,3,4,6,7,8-HpCDD	ng/kg	**1,810**	**13,700**	**9.53 J**	**2.54 J**	**265**	**255**	**21,900 D**	**33.6**
1,2,3,4,6,7,8-HpCDF	ng/kg	**465**	**4,140**	**2.99 J**	1.08 U	**71.4**	**59.5**	**7,220**	**9.23 J**
1,2,3,4,7,8,9-HpCDF	ng/kg	**52.3**	**267**	2.09 U	1.45 U	**8.25 J**	**6.81 J**	**605**	**0.912 J**
1,2,3,4,7,8-HxCDD	ng/kg	6.45 UX	**29.1**	1.20 U	1.29 U	1.73 U	1.62 U	**57.0**	1.51 U
1,2,3,4,7,8-HxCDF	ng/kg	**61.0**	**213**	0.767 U	0.543 U	**9.42 J**	**8.46 J**	**759**	0.663 U
1,2,3,6,7,8-HxCDD	ng/kg	**57.8**	**333**	1.17 U	1.30 U	**7.16 J**	**7.87 J**	**536**	**1.53 J**
1,2,3,6,7,8-HxCDF	ng/kg	**15.5**	**48.2**	0.806 U	0.551 U	1.42 U	1.94 UX	**149**	0.668 U
1,2,3,7,8,9-HxCDD	ng/kg	**14.1**	**64.1**	1.35 U	1.55 U	2.21 U	1.66 U	**148**	1.72 U
1,2,3,7,8,9-HxCDF	ng/kg	**7.62 J**	**25.8**	1.48 U	1.05 U	0.764 UX	**1.36 J**	**38.8**	1.10 U
1,2,3,7,8-PeCDD	ng/kg	**3.14 J**	**8.49 J**	1.01 U	1.26 U	0.832 U	1.02 U	**19.8**	0.753 U
1,2,3,7,8-PeCDF	ng/kg	**6.10 J**	**5.54 J**	0.553 U	0.542 U	0.578 U	0.676 U	**32.7**	0.336 U
2,3,4,6,7,8-HxCDF	ng/kg	**6.53 J**	**65.8**	0.965 U	0.691 U	1.16 UX	1.00 UX	**84.5**	0.752 U
2,3,4,7,8-PeCDF	ng/kg	**14.6**	**15.8**	0.521 U	0.469 U	**1.93 J**	**2.07 J**	**97.1**	0.264 U
2,3,7,8-TCDD	ng/kg	1.04 UX	2.05 UX	0.764 U	0.949 U	0.535 U	0.423 U	1.72 UX	0.345 U
2,3,7,8-TCDF	ng/kg	**1.17 J**	0.844 U	0.472 U	0.429 U	0.435 U	0.441 U	**4.56**	0.293 U
OCDD	ng/kg	**21,100**	**237,000 D**	**101**	**19.0 J**	**3,930**	**3,760**	**363,000 D**	**503**
OCDF	ng/kg	**1,840**	**19,500**	8.74 UX	**1.59 J**	**298**	**267**	**23,600 D**	**45.4**
Total HpCDD	ng/kg	**3,790**	**26,300**	**16.1**	**4.57 J**	**666**	**570**	**48,600**	**70.3**
Total HpCDF	ng/kg	**3,100**	**20,200**	**12.1**	**1.76 J**	**457**	**361**	**34,200**	**45.2**
Total HxCDD	ng/kg	**330**	**1,560**	1.35 U	**3.65 J**	**39.8**	**39.0**	**2,780**	**1.53 J**
Total HxCDF	ng/kg	**1,300**	**4,410**	**2.71 J**	0.804 UX	**146**	**159**	**11,200**	**9.72**
Total PeCDD	ng/kg	**11.3 J**	**50.5**	0.672 UX	5.11 UX	**4.65 J**	**2.34 J**	**134**	0.753 U
Total PeCDF	ng/kg	**130**	**255**	0.412 UX	0.542 U	**14.1**	**13.6**	**842**	0.866 UX
Total TCDD	ng/kg	**3.64**	**12.4**	**6.34**	**5.86**	**1.15 J**	**1.13 J**	**9.54**	0.345 U
Total TCDF	ng/kg	**4.04**	**20.6**	0.472 U	0.429 U	**0.726 J**	0.592 UX	**31.0**	0.293 U
2,3,7,8-TCDD TEQ (ND=0)	ng/kg	**54.2**	**349**	**0.156**	**0.0316**	**6.95**	**6.81**	**641**	**0.755**
2,3,7,8-TCDD TEQ (ND=1/2 DL)	ng/kg	**55.1**	**350**	**1.55**	**1.6**	**8.03**	**7.88**	**642**	**1.68**
Miscellaneous									
Total Organic Carbon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 25.

Table 1 - 2024 Floodplain Sample Analytical Data Summary - Douglas County Parcel
Crawford Creek/Tributary GLLA Project
Superior, WI

Notes/Definitions:

1. Table summarizes analytical data for floodplain samples collected in 2024
2. mg/kg = milligrams per kilogram
3. ng/kg = nanograms per kilogram
4. NA - Not analyzed
5. ND - Non-detect (used for Total PAH, BaP-TE, and TCDD-TEQ calculations where all individual PAHs or dioxin/furan congeners were non-detect)
6. Total PAHs calculated as the sum of 16 priority pollutant PAHs
7. BaP-TE calculated using 1993 relative potency factors for carcinogenic PAHs
8. TCDD-TEQ calculated using 2005 WHO toxicity equivalency factors
9. Total PAHs, BaP-TE, and TCDD-TEQ calculated two ways: one assuming non-detects equal zero, and one assuming non-detects are equal to 1/2 the detection limit
10. **Bold indicates detected value**
11. [ ] = blind duplicate sample results
12. The following data qualifiers are used:
    - D = Concentration is based on a diluted sample analysis
    - J = The compound was positively identified; however, the associated numerical value is an estimated concentration only
    - J+ = The compound was positively identified; however, the associated numerical value is an estimated concentration only, and may be biased high
    - U = The compound was analyzed for but not detected; the associated value is the compound quantitation limit
    - UB = Compound considered non-detect at the listed value due to associated blank contamination
    - UJ = The compound was analyzed for but not detected; the associated value is an estimated quantitation limit
    - UX = Elevated detection limit as estimated maximum possible concentration (EMPC); applies to dioxins/furans