CTI and Associates, Inc.

51331 W. Pontiac Trail, Wixom, MI 48393 248.486.5100 Main 248.486.5050 Fax

June 7, 2012

Juan Thomas
USEPA Region V
RCRA ECAB, DE-9J
77 W. Jackson Blvd.
Chicago, Illinois 60604

RE: Baseline Ecological Risk Assessment (BERA) Addendum
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, Michigan

Dear Mr. Thomas:

Please find the attached Baseline Ecological Risk Assessment (BERA) Addendum for the Former Stanley Tools Facility (MID 099 124 299), located in Fowlerville, Michigan. The BERA Addendum was prepared pursuant to your letter dated December 5, 2011. Johnson Controls, Inc. appreciates your time and efforts collaborating on the analyses presented in this Addendum, as well as the efforts of your colleague, Dan Mazur.

If you have questions, don't hesitate to contact Michael L. Stoelton, Johnson Controls, Inc. at (734) 254-5657, or me at (248) 560-0715.

Sincerely,

CTI and ASSOCIATES, INC.

Andrew J. Lonergan, PG
Project Manager

cc: MDEQ, D. Slayton
Johnson Controls, Inc., M. Stoelton

MID 099 124 299

Johnson Controls

Addendum to the Baseline Ecological Risk Assessment (BERA)

Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, Michigan

Prepared for:

JOHNSON CONTROLS, INC
49200 HALYARD DRIVE
PLYMOUTH, MI 48170

Submitted to:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5, RCRA CORRECTIVE ACTION SECTION
77 W. JACKSON BOULEVARD
CHICAGO, IL 60604

Prepared by:

CTI and Associates, Inc.

CTI and Associates, Inc
51331 W. Pontiac Trail
Wixom, MI 48393

June 7, 2012

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- 2011 July 22: EPA/JCI/CTI – Conference call agenda and meeting minutes
- 2011 December 5: Letter from EPA to JCI – Revision to EPA Letter
- 2012 March 8: Letter from MDEQ to EPA
- 2012 March 22: EPA/JCI/CTI – Conference call agenda and meeting minutes
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Figure 9: SWAC Polygons

Figure 10: Removal Areas

0 75 150
SCALE IN FEET

LEGEND

- Approximate Location of National Wetland Inventory Boundary
- Approximate Railroad Right of Way (ROW)
- Actual River Boundary Based on 2009 Survey Data

REVISIONS:

CLIENT: JCI Plymo

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY

CTI and As

Design C.KO
Drawn E. HC
Checke J.R. I
Appro A.J. I
DATE April
PROJ 095C
FI 1

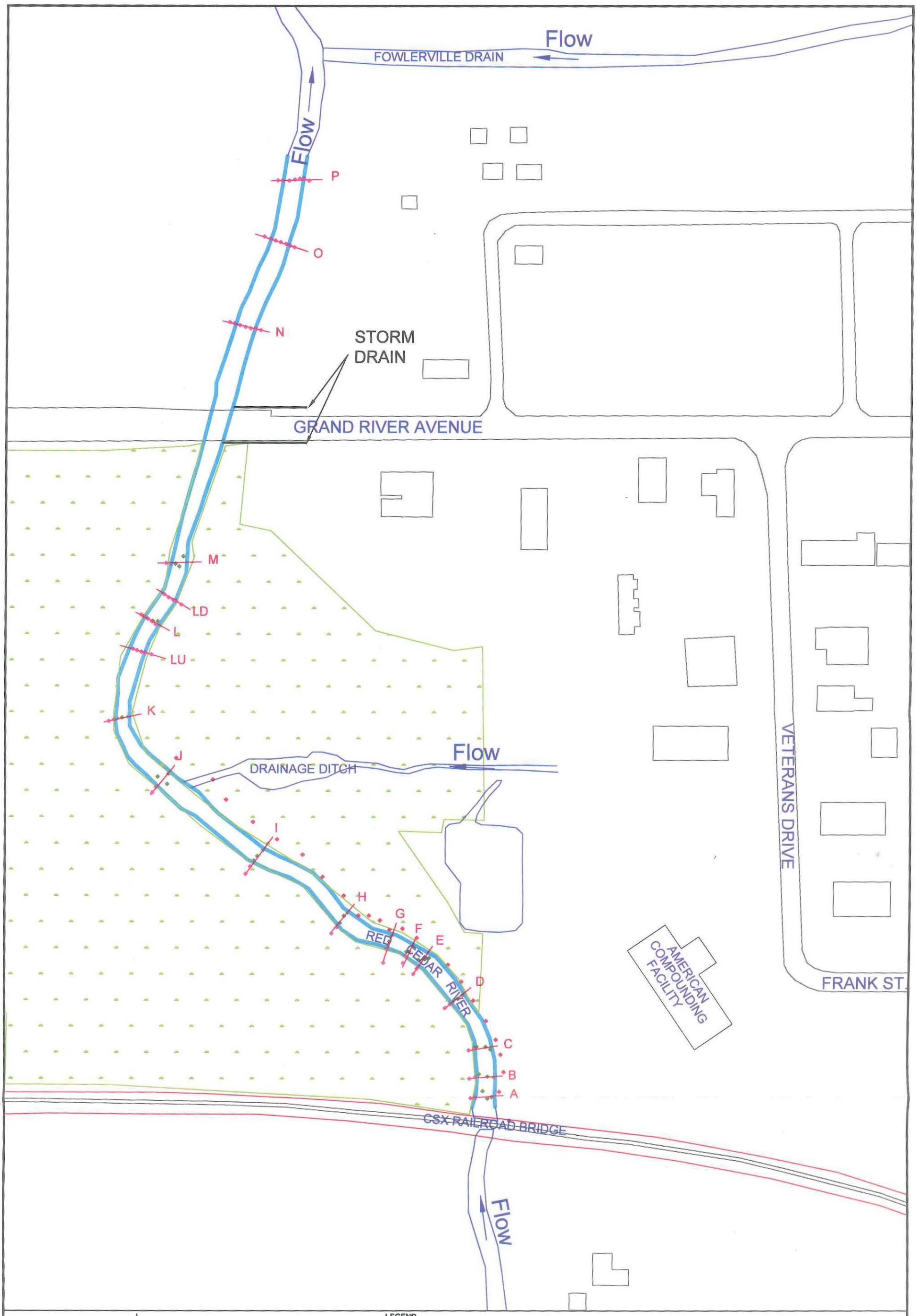


FIGURE 2

PROJECT NO. 095010XXX

DATE April 2012

Approved By: A.J. LONERG

Checked By: J.R. DICKSO E. HOBBS

Drawn By: C.KOGANTI

Designed By:

REVISIONS:

CLIENT: JCI Plymouth,

ADDENDUM TO BERA

FORMER STANLEY TOOLS FACILITY

(MID 099 124 299), Fowlerville, MI

SITE LAYOUT AND SAMPLE TRANSECT

CTI and Associates

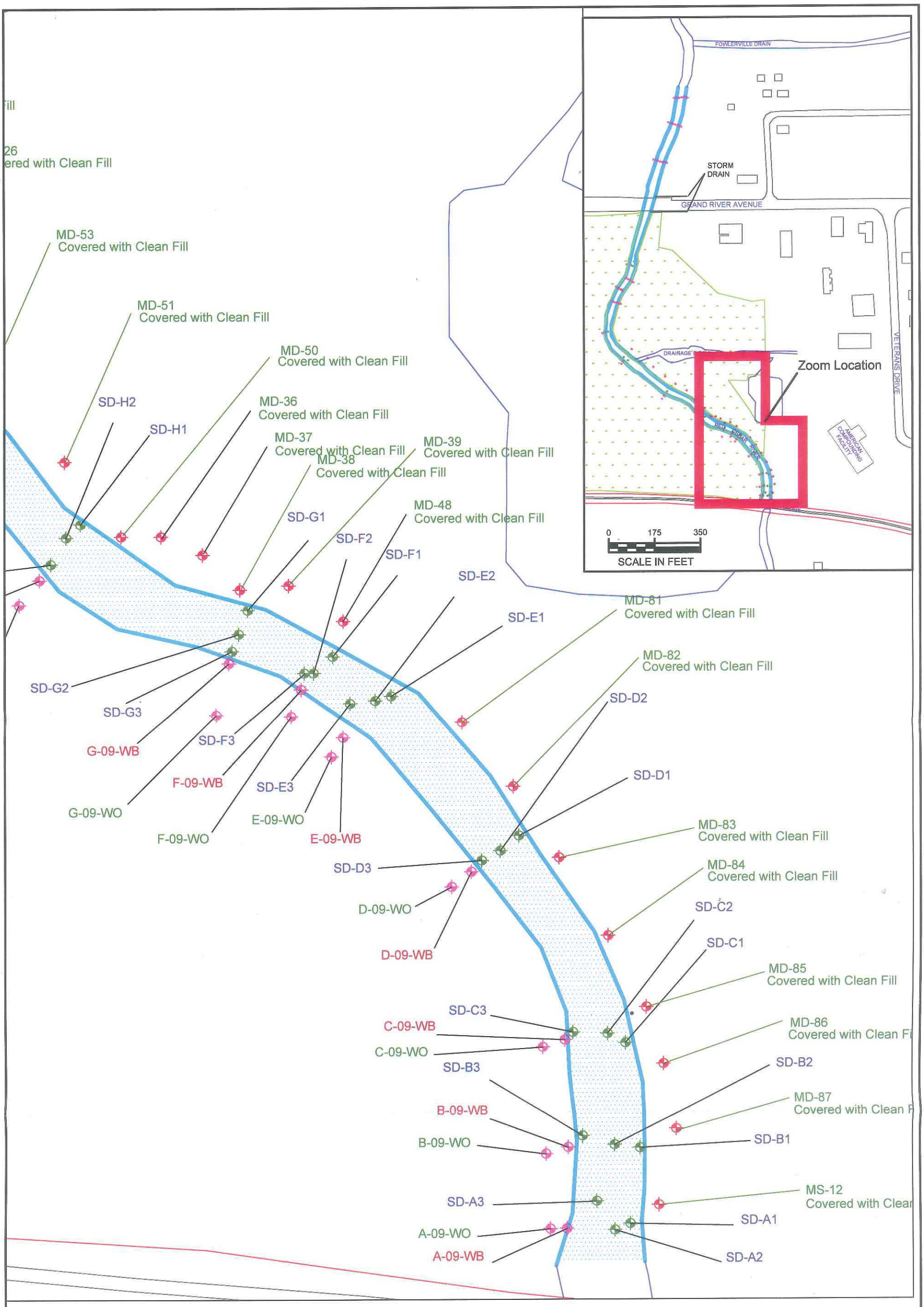
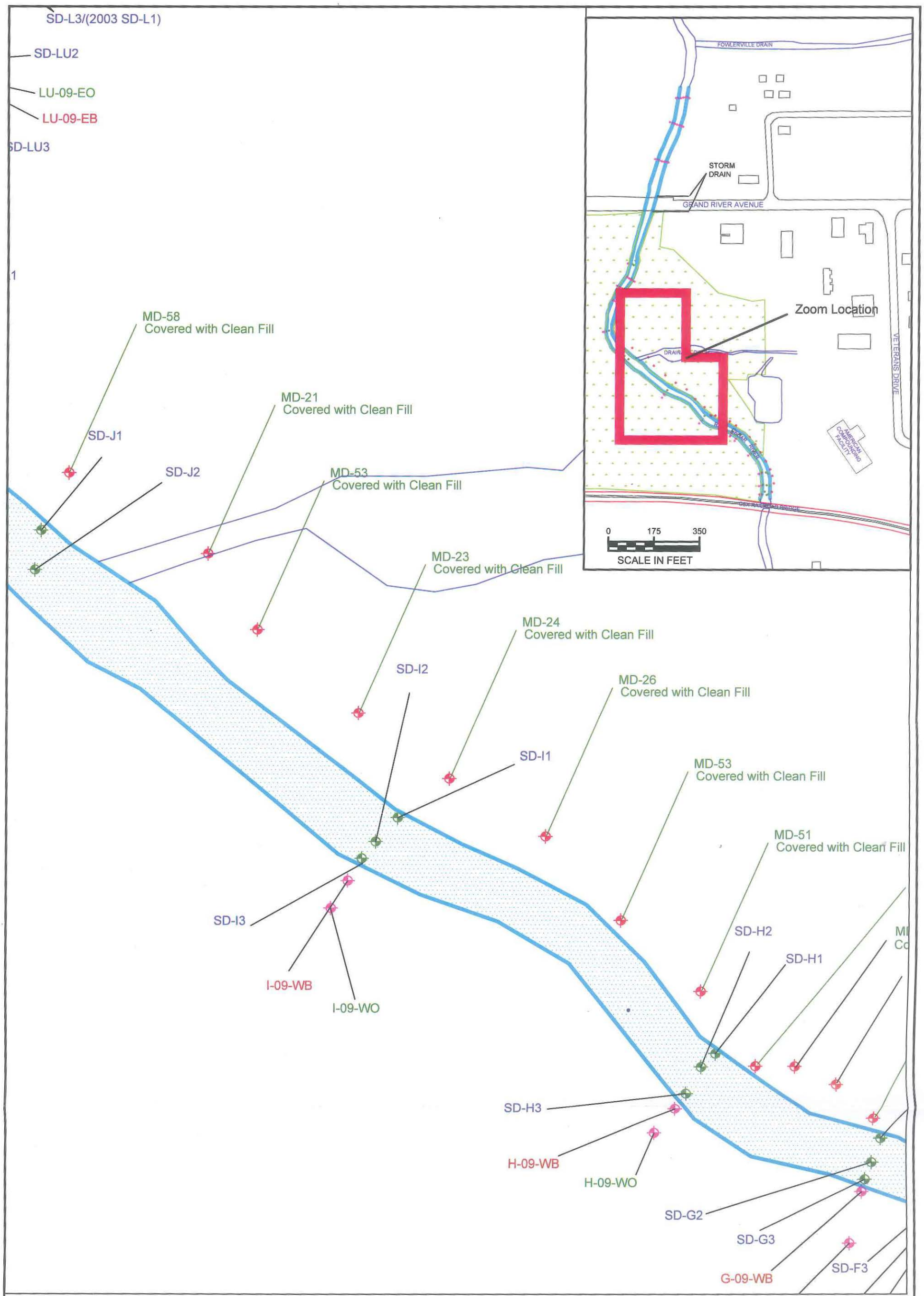


FIGURE NO. 3	PROJECT NO. 095010XXX	DATE April 2012	Designed By: C.KOGANTI Drawn By: E. HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI	ADDENDUM TO BERA FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI SAMPLE LOCATIONS

CTI and Associates, Inc.



FIGU 4

PROJEC 095010

DATE April 20

Approved A.J. LOI

Checked J.R. DIC

Drawn By E. HOBE

Designed C.KOGA

REVISIONS:

CLIENT: JCI Plymout

ADDENDUM TO BERA

FORMER STANLEY TOOLS FACILITY

(MID 099 124 299), Fowlerville, MI

CTI and Assoc

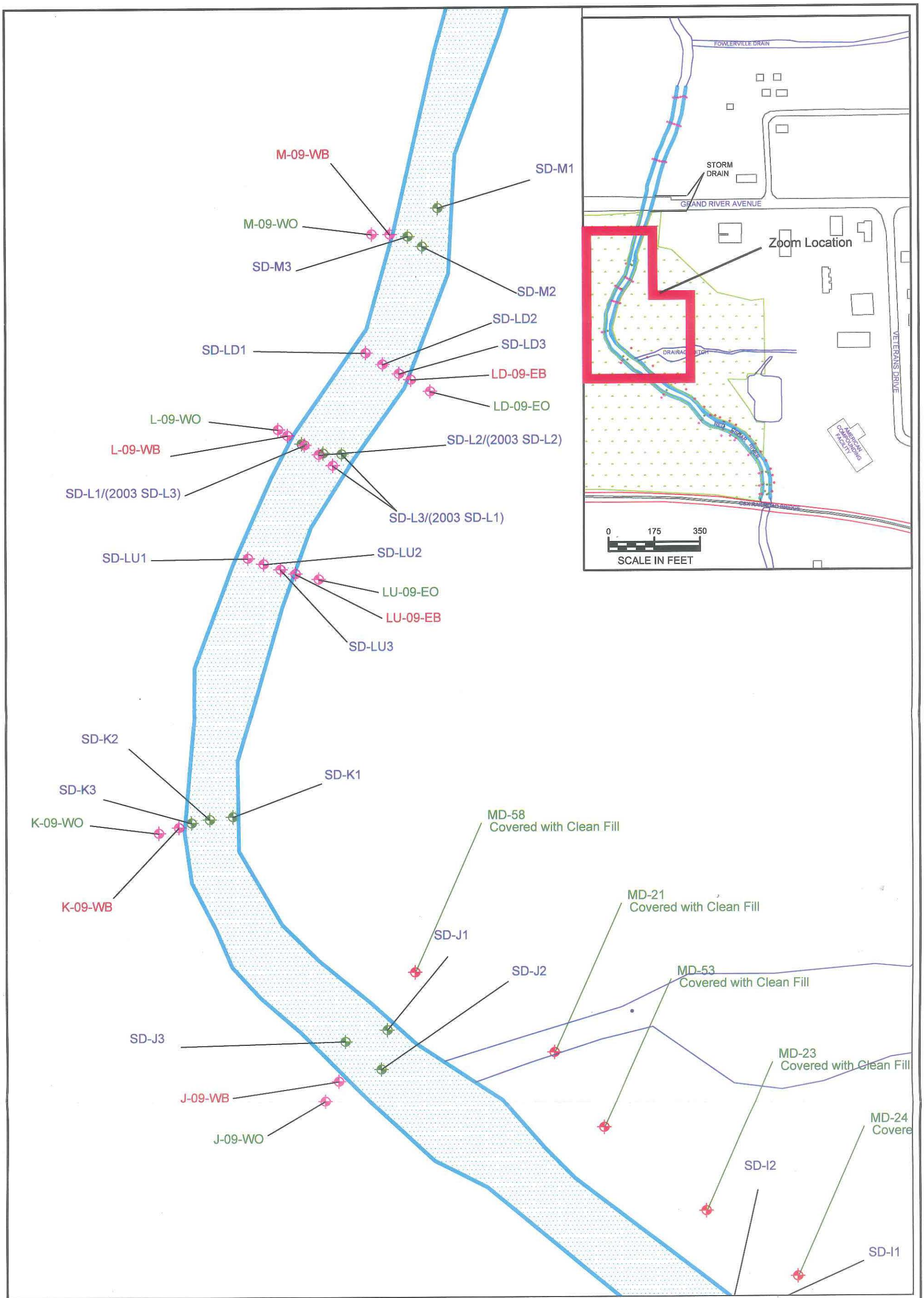
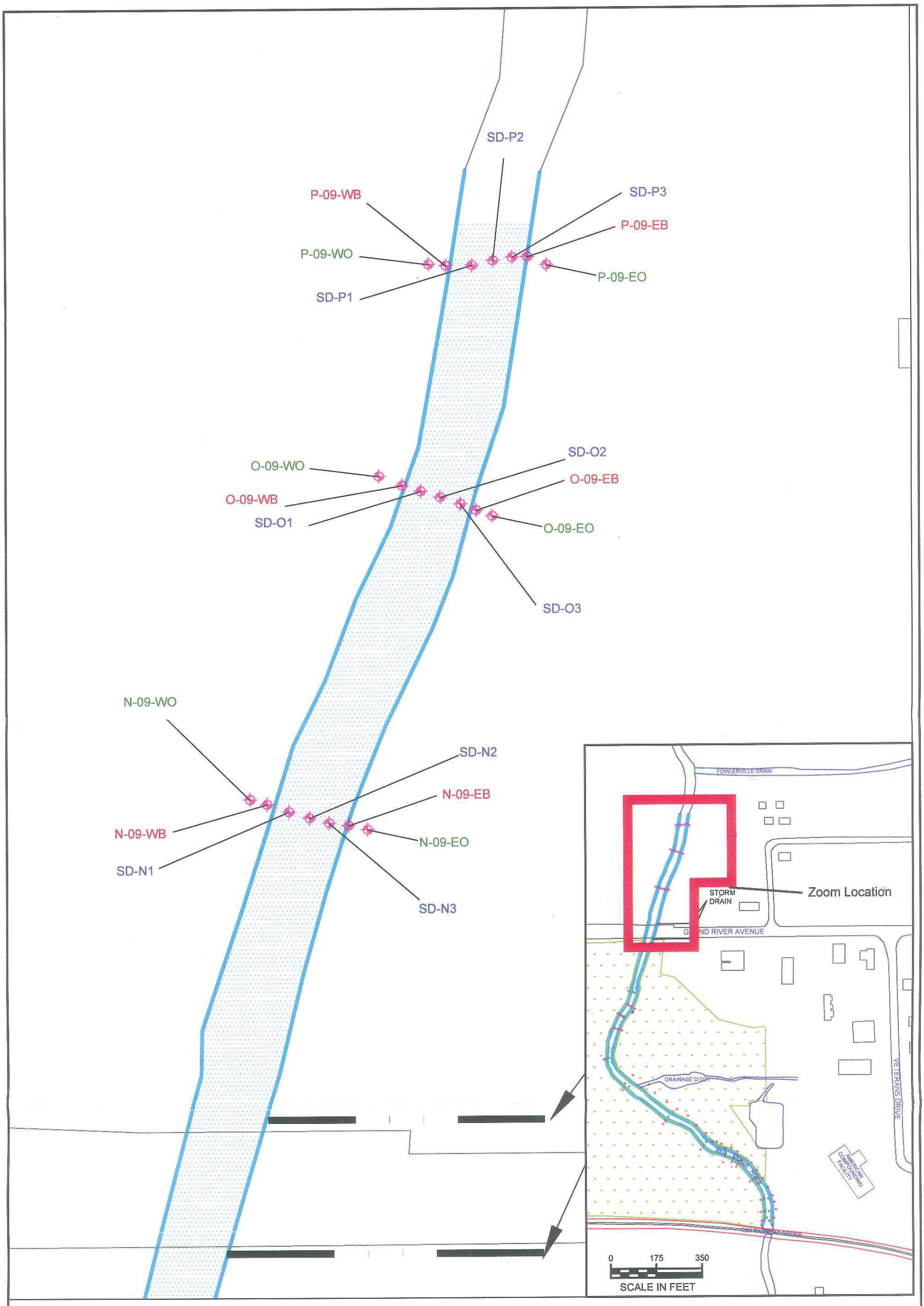


FIGURE NO. 5	PROJECT NO. 095010XXX	DATE April 2012	Designed By: C.KOGANTI Drawn By: E. HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SAMPLE LOCATIONS

CTI and Associates, Inc.



Designed By: C.KOGANTI
Drawn By: E. HOBBS
Checked By: J.R. DICKSON
Approved By: A.J. LONERGAN

DATE April 2012

PROJECT NO. 095010XXX

FIGURE NO. 6

REVISIONS:

CLIENT: JCI Plymouth, MI

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SAMPLE LOCATIONS

CTI and Associates, Inc.

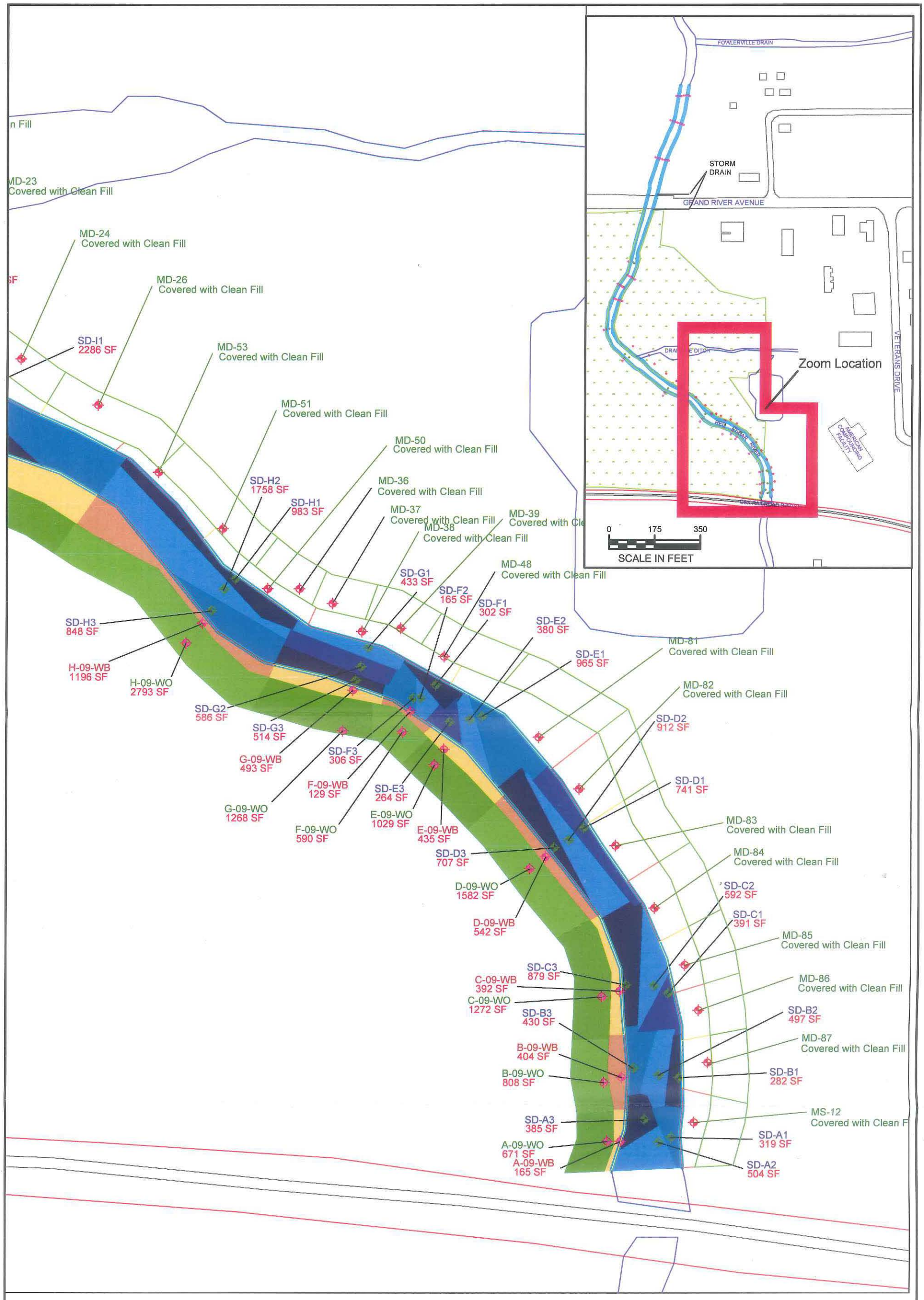


FIGURE NO. 7	PROJECT NO. 095010XXX	DATE April 2012	Designed By: C.KOGANTI Drawn By: E.HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SWAC POLYGONS

CTI and Associates, Inc.

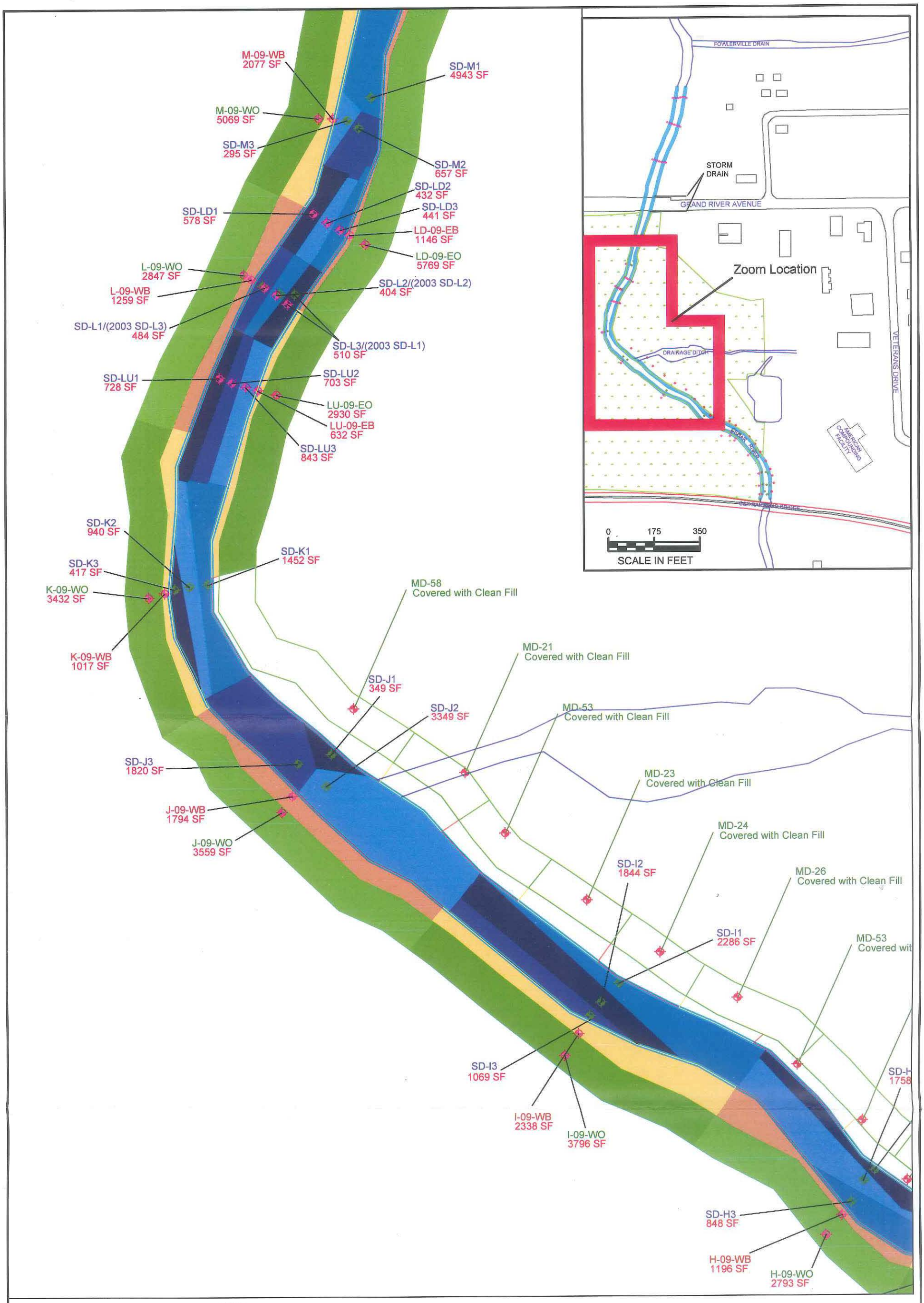


FIGURE NO. 8	PROJECT NO. 095010XXX	DATE April 2012	Designed By: C.KOGANTI Drawn By: E. HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SWAC POLYGONS

CTI and Associates, Inc.

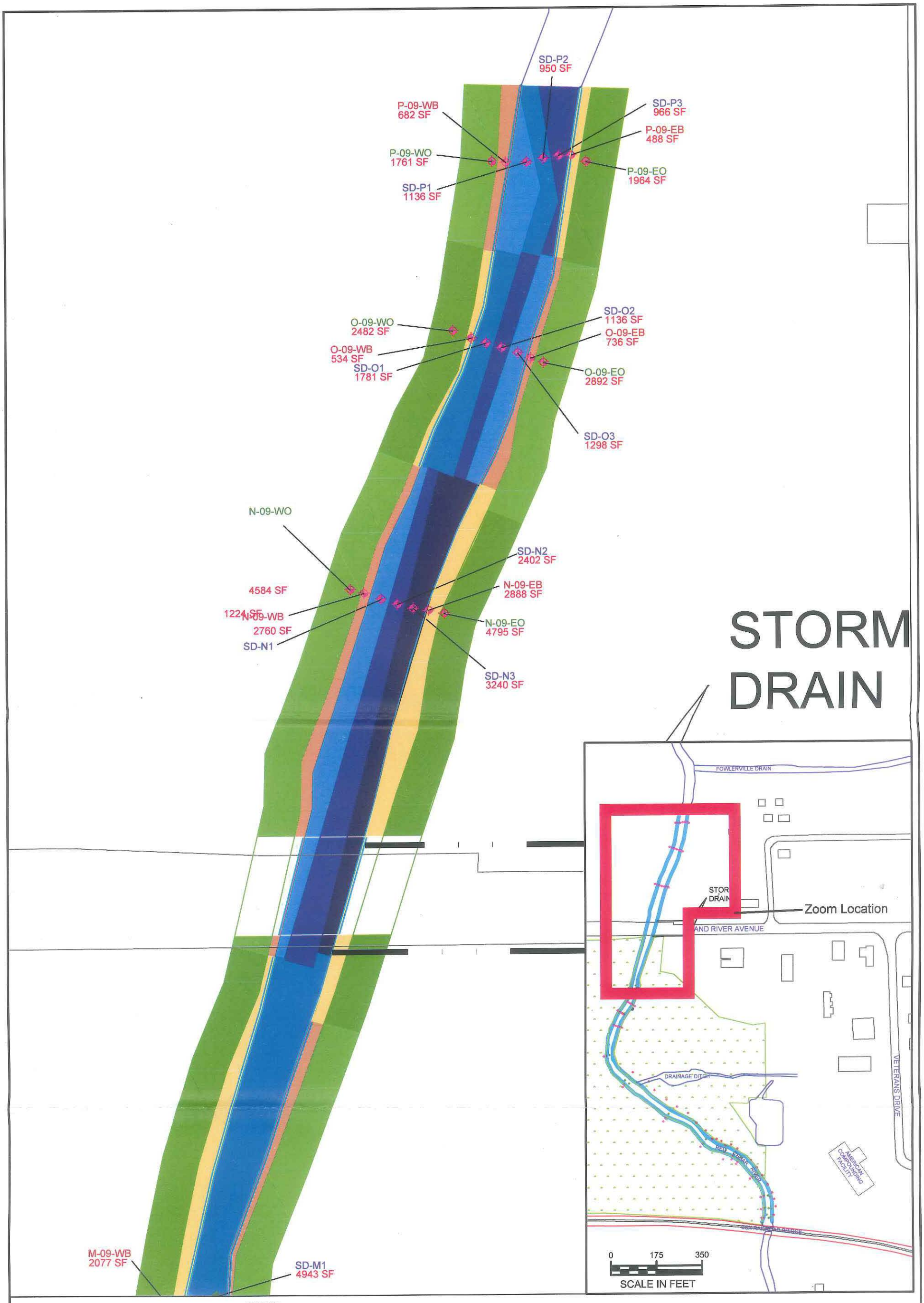
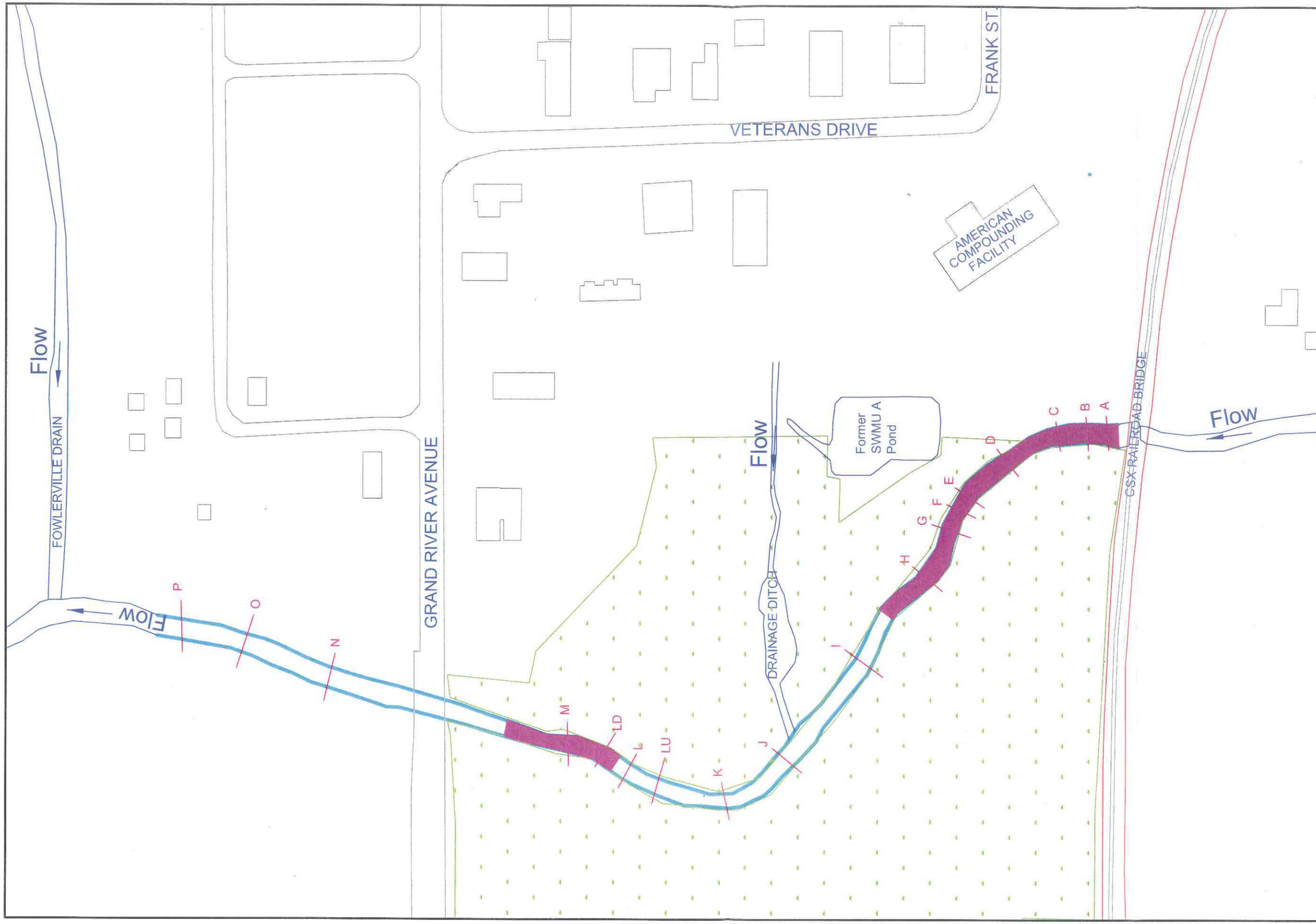


FIGURE NO. 9	PROJECT NO. 095010XXX	DATE April 2012	Designed By: C.KOGANTI Drawn By: E. HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SWAC POLYGONS

CTI and Associates, Inc



CTI and Associates, Inc.

ADDENDUM TO BERA
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

Removal Areas

CLIENT:
JCI
Plymouth, MI

REVISIONS:

Designed By:
J. Dickson
Drawn By:
J. Dickson
Checked By:
J. Dickson
Approved By:
A.J. LONERGAN

DATE
April 2012

PROJECT NO.
0105010XXX

FIGURE NO.
10

TABLES

TABLE 1:

2009 SEDIMENT SAMPLING FIELD LOG.

TABLE 1
2009 SEDIMENT SAMPLING FIELD LOG

FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
FOWLERVILLE, MI

Transect	Sample Identification		Date of Sample	Time of Sample	Depth of Water	Sediment Thickness	% Recovery	Sample Depth	Notes
P	1	a	11/18/09	1325	10"	4'	60	0-1'	Coarse SAND with gravel, dark gray to 4'
		b						1-2'	
	2	a	11/18/09	1350	15"	3'	40	0-1'	5" of Coarse SAND grading into gray silt to 14"
		b						1-2'	
	3	a	11/19/09	950	15"	10"	40	0-1	Sandy-SILT, fine to medium grained, dark brown, trace fine gravel
O	1	a	11/19/09	1115	12"	2'	50	0-1'	Medium to coarse SAND, dark brown, trace fine gravel to 2'
		b						1-2'	
	2	a	11/19/09	1135	16"	15"	50	0-1'	Medium to coarse SAND, dark brown to gray, trace fine gravel
	3	a	11/19/09	1200	19"	14"	50	0-1'	4" of coarse SAND, dark brown, trace fine gravel grading into a fine to medium sandy-
N	1	a	11/19/09	1325	14"	26"	50	0-1'	9" of find to medium SAND grading into a black silty-SAND to 14"
		b						1-2'	
	2	a	11/19/09	1345	24"	24"	50	0-1'	Fine to medium SAND, gray, trace fine gravel and shells to 24"
		b						1-2"	DUP SD-1 collected at N-09-SD-2b
	3	a	11/19/09	1415	22"	30"	50	0-1'	Fine to medium SAND, gray, trace fine gravel and shells to 30"
		b						1-2"	
LD	1	a	11/19/09	1520	25"	14"	50	0-1'	Fine to medium SAND, dark brown, trace fine gravel to 14"
		b						1-2'	
	2	a	11/19/09	1545	10"	26"	50	0-1'	Fine SAND grading to a fine to medium SAND
		b						1-2"	1" of fine to medium SAND grading into a coarse SAND
	3	a	11/19/09	1615	12"	27"	15	0-1'	Dark Gray, Fine silty-SAND with organic material grading into a gray, fine SAND
L	1	a	11/23/09	920	20"	10"	70	0-1'	Medium to coarse SAND with gravel
	2	a	11/19/09	1700	15"	15"	50	0-1'	Course gravelly-SAND grading to a black silty-SAND
	3	a	11/23/09	945	7"	31"	40	0-1'	Fine SAND, dark brown to black, trace coarse sand and fine gravel
		b						1-2'	fine to medium silty-SAND, dark brown to black, trace fine gravel
LU	1	a	11/23/09	1015	26"	12"	50	0-1'	Fine to coarse silty-SAND with wood and gravel
	2	a	11/23/09	1055	24"	10"	50	0-1'	Coarse SAND with gravel grading to a fine to medium SAND
	3	a	11/23/09	1110	13"	13"	50	0-1'	Medium to coarse SAND with gravel grading to a fine to medium silty-SAND
Composite	H-09-CS-1		11/23/09	1300 to 1530	22"	33"	50	Collected entire sediment column from each composite location	Silty-SAND with organics grading to a well sorted, fine to medium SAND with organics
	E-09-CS-1				22"	25"	25		Coarse SAND with organic material grading to a fine silty-SAND with organics
	E-09-CS-2				21"	9"	65		Fine silty-SAND, dark brown to black, trace fine gravel
	C-09-CS-1				31"	14"	20		SAND into SILT, CLAY at bottom
	A-09-CS-1				26"	26"	40		Sandy-SILT grading to a Silty-SAND and back to a sandy-SILT

TABLE 2:

IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 TO 2009

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL																									
Location					SD-A1	SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3*	SD-C1	SD-C1	SD-C1	SDC2	SD-C3*	SD-C3*	SD-C3	SD-C3	SD-D1	SD-D2
Field ID:					SDA1012-042303-01	SD-A1-006	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SD=C1-005	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01	SDD1-0006-101603-01	SDD2-0007-101603-01
Date Sampled:					4/23/2003	7/24/2007	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003	10/16/2003	10/16/2003
Data Type					Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original
Material Type					Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment
Sample Event					2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003
Depth (inches):					0 - 12	0 - 12	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 16	0 - 16	0 - 12	12 - 28	12 - 28	36 - 42	0 - 12	0 - 12	12 - 24	0 - 13	0 - 12	12 - 24	12 - 24	42 - 48	0 - 6	0 - 7
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,1,1-Trichloroethane	-	213	71-55-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,1,2,2-Tetrachloroethane	-	850	79-34-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,1,2-Trichloroethane	-	518	79-00-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,1-Dichloroethane	-	0.575	75-34-3	µg/kg	78 U	NA	73 U	34 J	96	73	35 JB	69	96	52 J	120 U	21 J	18 J	56 U	37 J	NA	30 J	69 U	70 U	70 U	17 J	24 J	14 J	28 J
1,1-Dichloroethene	-	19.4	75-35-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	390 UJB	NA	370 U	410 U	380 U	320 U	370 U	250 U	320 U	330 U	620 U	410 U	400 U	280 U	330 U	NA	250 U	340 U	350 U	350 U	400 U	430 U	310 U	360 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	12 JB	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	27 JB	NA	24 JB	21 JB	24 JB	16 JB	16 JB	51 U	7.6 J	10 J	17 J	81 U	80 U	56 U	19 JB	NA	28 JB	9 J	17 JB	70 U	79 U	86 U	14 J	12 J
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	18 J	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2-Dichloroethane	-	260	107-06-2	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	-	333	78-87-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	13 JB	NA	11 JB	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
2,2-Dichloropropane	-	-	594-20-7	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
2-Hexanone	-	58.2	591-78-6	µg/kg	780 U	NA	730 U	830 U	770 U	630 U	740 U	510 U	630 U	650 U	1200 U	810 U	800 U	560 U	660 U	NA	500 U	690 U	700 U	700 U	790 U	860 U	620 U	720 U
4-Chlorotoluene	-	-	106-43-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
4-Isopropyltoluene	-	-	99-87-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
4- ?-pentanone	-	25.1	108-10-1	µg/kg	780 U	NA	730 U	830 U	770 U	630 U	740 U	510 U	630 U	650 U	1200 U	810 U	800 U	560 U	660 U	NA	500 U	690 U	700 U	700 U	790 U	860 U	620 U	720 U
Ac	-	9.9	67-64-1	µg/kg	320 JB	NA	240 JB	300 JB	340 JB	220 JB	290 JB	130 JB	490 J	540 J	1100 J	450 J	560 J	320 J	210 JB	NA	160 JB	690 U	260 JB	220 JB	310 JB	670 J	510 J	350 J
Acrolein	-	0.00152	107-02-8	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	-	142	71-43-2	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Bromobenzene	-	-	108-86-1	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Bromochloromethane	-	-	74-97-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Bromoform	-	492	75-25-2	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Bromomethane	-	-	74-83-9	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	500 U	690 U	700 U	700 U	790 U	43 J	620 U	74 J
Carbon disulfide	-	23.9	75-15-0	µg/kg	780 U	NA	730 U	830 U	18 J	630 U	740 U	510 U	12 J	25 J	1200 U	20 J	21 J	560 U	660 U	NA	500 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Carbon tetrachloride	-	1450	56-23-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Chlorobenzene	-	291	108-90-7	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Chloroethane	-	-	75-00-3	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	18 J	NA	16 J	69 U	70 U	70 U	16 J	86 U	62 U	72 U
Chloroform	-	121	67-66-3	µg/kg	78 U	NA	21 J	15 J	22 J	13 J	22 J	11 J	63 U	65 U	120 U	81 U	80 U	56 U	32 J	NA	20 J	69 U	23 J	30 J	23 J	86 U	62 U	72 U
Chloromethane	-	-	74-87-3	µg/kg	29 J	NA	23 J	23 J	31 J	28 J	23 J	51 U	63 U	65 U	120 U	81 U	80 U	56 U	1100	NA	710	49 J	70 U	70 U	79 U	30 J	57 J	420
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	78 U	NA	73 U	56 J	240	1100	38 J	1100	2000	160	120 U	130	160	120	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Dibromochloromethane	-	-	124-48-1	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Dibromomethane	-	-	74-95-3	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	14 J	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Ethylbenzene	-	175	100-41-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Ethylene dibromide	-	-	106-93-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	500 U	340 U	700 U	700 U	790 U	430 U	310 U	360 U
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	42 JB	NA	29 JB	830 U	770 U	630 U	740 U	510 U	320 U	330 U	620 U	410 U	400 U	280 U	660 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Isopropylbenzene	-	-	98-82-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	500 U	570 J	120 J	140 J	160 J	300 J	670	610 J
Methyl ethyl ketone	-	42.4	78-93-3	µg/kg	210 J	NA	140 J	160 J	200 J	100 J	180 J	85 J	620 J	460 J	850 J	350 J	380 J	480 J	660 U	NA	500 U	690 U	700 U	700 U	790 U	860 U	620 U	720 U
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	780 U	NA	730 U	830 U	770 U	630 U	740 U	510 U	630 U	650 U	1200 U	810 U	800 U	560 U	660 U	NA	50 U	49 J	70 U	70 U	79 U	50 J	47 J	62 J
Methylene chloride	-	159	75-09-2	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	37 J	48 J	84 J	51	46 J	46 J	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
n-Butylbenzene	-	-	104-51-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
n-Propylbenzene	-	-	103-65-1	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	7 JB	32 J	10 JB	170 U	200 U	430 U	310 U	360 U
Naphthalene	-	176	91-20-3	µg/kg	21 JB	NA	16 JB	21 JB	32 JB	11 JB	25 JB	7 JB	320 U	290 J	76 J	410 U	400 U	280 U	11 JB	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
o-Xylene	-	-	95-47-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	8 J	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Styrene	-	254	100-42-5	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Tetrachloroethene	-	990	127-18-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	7.6 J	70 U	70 U	79 U	86 U	8.7 J	13 J
Toluene	-	1220	108-88-3	µg/kg	78 U	NA	73 U	83 U	25 J	63 U	74 U	51 U	63 U	8.5 J	120 U	81 U	9.6 J	56 U	18 J	NA	50 U	69 U	70 U	26 J	79 U	86 U	62 U	81
trans-1,2-Dichloroethylene	-	654	156-60-5	µg/kg	78 U	NA	73 U	25 J	45 J	78	19 JB	58	160	39 J	120 U	81 U	80 U	56 U	100	NA	88	69 U	70 U	70 U	79 U	86 U	62 U	72 U
tra ichloropropene	-	-	10061-02-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Tr hene	-	112	79-01-6	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	41 JB	63 U	80	120 U	81 U	80 U	56 U	410	NA	690	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Vinyl chloride	-	202	75-01-4	µg/kg	78 U	NA	73 U	83 U	77 U	63 U	74 U	51 U	63 U	65 U	120 U	81 U	80 U	56 U	66 U	NA	50 U	69 U	70 U	70 U	79 U	86 U	62 U	72 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	40 J	NA	35 J	41 J	150 U	130 U	150 U	100 U	130 U	130 U	250 U	160 U	160 U	110 U	32 J	NA	100 U	140 U	140 U	140 U	160 U	170 U	120 U	140 U

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-A1	SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3*	SD-C1	SD-C1	SD-C1	SDC2	SD-C3*	SD-C3*	SD-C3	SD-C3	SD-D1	SD-D2
				Field ID:	SDA1012-042303-01	SD-A1-006	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SD=C1-005	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01	SDD1-0006-101603-01	SDD2-0007-101603-01
				Date Sampled:	4/23/2003	7/24/2007	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003	10/16/2003	10/16/2003
				Data Type	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment
				Sample Event	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	0 - 12	0 - 12	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 16	0 - 16	0 - 12	12 - 28	12 - 28	36 - 42	0 - 12	0 - 12	12 - 24	0 - 13	0 - 12	12 - 24	12 - 24	42 - 48	0 - 6	0 - 7
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	3.2 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.4 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	40 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylphenol	-	-	95-48-7	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	17 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Nitroaniline	-	-	88-74-4	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	-	-	88-75-5	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	2000 U	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	-	99-09-2	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-[illegible]henol	-	-	106-44-5	µg/kg	54 J	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	11 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-N[illegible]line	-	-	100-01-6	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg	330 U	1360 U	330 U	**48 J**	330 U	330 U	**96 J**	330 U	**26 J**	**100 J**	**10 J**	330 U	330 U	330 U	330 U	1640 U	330 U	**44 J**	330 U	330 U	330 U	330 U	330 U	**10 J**
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	330 U	2730 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	**21 J**	330 U	330 U	330 U	330 U	330 U	3280 U	330 U	**24 J**	330 U	330 U	330 U	330 U	330 U	**6.2 J**
Anthracene	-	**57.2**	120-12-7	µg/kg	38 J	1360 U	330 U	41 J	330 U	330 U	330 U	330 U	17 J	**110 J**	44 J	330 U	330 U	330 U	330 U	1640 U	330 U	**140 J**	330 U	330 U	330 U	330 U	3.3 J	23 J
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	**160 J**	682 U	330 U	**310 J**	330 U	330 U	330 U	330 U	66 J	**250 J**	**200 J**	330 U	330 U	330 U	330 U	820 U	330 U	**280 J**	44 J	330 U	330 U	330 U	14 J	90 J
Benzidine	-	-	92-87-5	µg/kg	5000 U	NA	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	NA	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	100 J	111	330 U	**160 J**	330 U	330 U	330 U	330 U	56 J	**170 J**	**240 J**	330 U	330 U	330 U	330 U	82 U	330 U	**260 J**	40 J	330 U	330 U	330 U	12 J	79 J
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	180 J	682 U	330 U	210 J	330 U	330 U	330 U	330 U	86 J	140 J	230 J	330 U	330 U	330 U	330 U	820 U	330 U	300 J	330 U	330 U	330 U	330 U	14 J	110 J
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	4 J	1360 U	330 U	32 J	330 U	330 U	330 U	330 U	48 J	110 J	**190 J**	330 U	330 U	330 U	330 U	1640 U	330 U	170 J	330 U	330 U	330 U	330 U	15 J	54 J
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	120 J	1360 U	330 U	140 J	330 U	330 U	330 U	330 U	31 J	170 J	220 J	330 U	330 U	330 U	330 U	1640 U	330 U	150 J	330 U	330 U	330 U	330 U	9.3 J	43 J
Benzoic acid	-	-	65-85-0	µg/kg	3300 U	NA	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	210 J	120 J	3300 U	3300 U	NA	3300 U	9.4 J	3300 U	3300 U	3300 U	3300 U	5.5 J	3300 U
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	1300 U	NA	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	**5.1 J**	1300 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	**240 J**	NA	52 J	91 J	83 J	44 J	330 U	29 J	86 J	100 J	61 J	24 J	20 J	9.5 J	63 J	NA	36 J	49 J	330 U	330 U	330 U	24 J	22 J	55 J
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	680	NA	320 J	460	140 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	5 J	330 U	NA	330 U	330 U	13 J	330 U	330 U	7.5 J	330 U	330 U
Carbazole	-	-	86-74-8	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	14 J	41 J	34 J	330 U	330 U	330 U	330 U	NA	330 U	25 J	330 U	330 U	330 U	330 U	330 U	5.8 J
Chrysene	-	**166**	218-01-9	µg/kg	**250 J**	1360 U	330 U	**180 J**	38 J	330 U	330 U	330 U	80 J	**240 J**	**280 J**	5.2 J	4.3 J	3.1 J	330 U	1640 U	330 U	**310 J**	56 J	330 U	330 U	330 U	13 J	75 J
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	35 J	47 J	80 J	110 J	62 J	47 J	27 J	61 J	NA	58 J	40 J	64 J	84 J	83 J	76 J	38 J	55 J
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	14 J	330 U	330 U	330 U	330 U	NA	330 U	7.4 J	330 U	330 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	330 U	68.2 U	330 U	330 U	330 U	330 U	330 U	330 U	10 J	**48 J**	**72 J**	330 U	330 U	330 U	330 U	82 U	330 U	**42 J**	330 U	330 U	330 U	330 U	330 U	14 J
Dibenzofuran	-	**449**	132-64-9	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	4.2 J	65 J	330 U	330 U	330 U	330 U	330 U	NA	330 U	16 J	330 U	330 U	330 U	330 U	330 U	330 U
Diethylphthalate	-	**295**	84-66-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	20 J	11 J	21 J	12 J	12 J	5.8 J	330 U	NA	330 U	17 J	330 U	330 U	330 U	10 J	11 J	13 J
Dimethyl phthalate	-	-	131-11-3	µg/kg	3300 U	NA	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	NA	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	12 J
Fluoranthene	-	**423**	206-44-0	µg/kg	**460**	1360 U	330 U	**610**	140 J	330 U	100 J	330 U	140 J	**550**	**620**	11 J	9.5 J	330 U	330 U	1640 U	330 U	**640**	130 J	330 U	43 J	330 U	28 J	160 J
Fluorene	-	**77.4**	86-73-7	µg/kg	330 U	1360 U	330 U	330 U	330 U	330 U	330 U	330 U	20 J	160 J	18 J	330 U	330 U	330 U	330 U	1640 U	330 U	48 J	330 U	330 U	330 U	330 U	330 U	12 J
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachloroethane	-	**584**	67-72-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	330 U	682 U	330 U	330 U	330 U	330 U	330 U	330 U	56 J	96 J	160 J	330 U	330 U	330 U	330 U	820 U	330 U	170 J	330 U	330 U	330 U	330 U	7.5 J	54 J
Isophorone	-	**432**	78-59-1	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Nap[illegible]ne	-	**176**	91-20-3	µg/kg	330 U	1360 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	170 J	330 U	330 U	330 U	330 U	330 U	1640 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Nit[illegible]e	-	**145**	98-95-3	µg/kg	200 U	NA	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	800 U	NA	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	NA	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
Phenanthrene	-	**204**	85-01-8	µg/kg	84 J	1360 U	330 U	170 J	330 U	330 U	330 U	330 U	64 J	**330**	25 J	330 U	330 U	330 U	330 U	1640 U	330 U	**400**	70 J	330 U	330 U	330 U	12 J	51 J
Phenol	-	**49.1**	108-95-2	µg/kg	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PNAs, Total	-	-	TPNA	µg/kg	1776	NA	NA	2451	288	NA	316	NA	840	3045	2759	24.2	22.8	6.3	NA	NA	NA	3468	440	NA	80	NA	154.1	921.2
Pyrene	-	**195**	129-00-0	µg/kg	**380**	1360 U	330 U	**550**	110 J	330 U	120 J	330 U	140 J	**510**	**450**	8 J	9 J	3.2 J	330 U	1640 U	330 U	**490**	100 J	330 U	37 J	330 U	26 J	140 J

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL			Location	SD-A1	SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3*	SD-C1	SD-C1	SD-C1	SDC2	SD-C3*	SD-C3*	SD-C3	SD-C3	SD-D1	SD-D2
					Field ID:	SDA1012-042303-01	SD-A1-006	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SD=C1-005	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01	SDD1-0006-101603-01	SDD2-0007-101603-01
					Date Sampled:	4/23/2003	7/24/2007	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003	10/16/2003	10/16/2003
					Data Type	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original
					Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment
					Sample Event	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003
					Depth (inches):	0 - 12	0 - 12	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 16	0 - 16	0 - 12	12 - 28	12 - 28	36 - 42	0 - 12	0 - 12	12 - 24	0 - 13	0 - 12	12 - 24	12 - 24	42 - 48	0 - 6	0 - 7
Polychlorinated Biphenyls (PCBs):																													
PCB, Total	-	**59.8**	TPCB	µg/kg	18 J	29.6 U	NA	NA	NA	NA	NA	NA	NA	26 J	**67 J**	NA	NA	NA	NA	NA	29.2 U	NA	NA	NA	5.2 J	NA	NA	NA	16 J
PCB-1016	-	**59.8**	12674-11-2	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1221	-	**59.8**	11104-28-2	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1232	-	**59.8**	11141-16-5	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1242	-	**59.8**	53469-21-9	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1248	-	**59.8**	12672-29-6	µg/kg	18 J	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	26 J	**67 J**	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	5.2 J	*330 U*	*330 U*	*330 U*	16 J
PCB-1254	-	**59.8**	11097-69-1	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1260	-	**59.8**	11096-82-5	µg/kg	*330 U*	29.6 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	29.2 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
Total Metals:																													
Aluminum, Total	-	-	7429-90-5	mg/kg	3870	NA	NA	NA	NA	NA	NA	NA	2870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2700	NA	NA	NA	NA	NA
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	9.2	8.64	8.4	5.8	7.1	3	8.3	3.2	4.2	8	**15**	**14**	**10**	**14**	7.6	**10.9**	3.4	6.3	4.4	9.4	**14**	**17**	6.1	7.3
Barium, Total	-	-	7440-39-3	mg/kg	53	NA	40	28	38	7.5	56	12	41	40	125	67	60	15	21	NA	7.1	38	36	34	42	56	32	28
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.52	0.848 U	0.55	0.36	0.31	0.28	0.45	0.41	0.16	0.12	0.4	0.26	0.23	0.071	0.48	0.820 U	0.28	0.11	0.31	0.36	0.5	0.18	0.081	0.12
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	**97**	**133**	7.6	23	25	4.8	20	7.3	27	**54**	12	9.5	12	7	12	**77.2**	4.4	14	13	18	17	7.3	13	27
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	**85**	**97**	9.5	17	21	4.4	29	6.4	24	**32**	9.5	8.3	9.2	6.5	22	**107**	9.9	9.8	5	14	19	**39**	12	15
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	26	15.1	14	5.9	**45**	2	6.5	3.3	5.2	10	16	6.8	5.9	3.2	5	11.2	2.7	5.9	27	6.7	7	5.2	5.4	5.1
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.046 J	NA	0.024 J	0.038 J	0.034 J	0.1 U	0.031 J	0.1 U	0.043 J	0.045 J	0.061 J	0.056 J	0.03 J	0.0091 J	0.021 J	NA	0.1 U	0.027 J	0.034 J	0.05 J	0.085 J	0.052 J	0.02 J	0.025 J
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	**71**	**57.9**	10	19	20	8.2	17	12	19	**24**	9.6	9.7	9.1	8.4	**39**	**267**	**34**	8.8	7	18	**27**	**40**	12	12
Selenium, Total	-	-	7782-49-2	mg/kg	0.61	NA	0.75	0.3 J	0.36	0.22 J	0.63	0.79	0.22 J	0.24 J	0.64	0.54	0.42	0.18 J	0.22 J	NA	0.35	0.21 J	0.46	0.51	0.58	0.41	0.25	0.19 J
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.074 J	NA	0.082 J	0.055 J	0.04 J	0.036 J	0.1 J	0.07 J	0.022 J	0.034 J	0.076 J	0.081 J	0.07 J	0.045 J	0.068 J	NA	0.037 J	0.032 J	0.052 J	0.064 J	0.066 J	0.054 J	0.06 J	0.021 J
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	**372**	**527**	35	76	85	13	83	21	77	**174**	63	38	37	16	**249**	**675**	11	44	32	56	64	26	26	37
Chromium(VI)	-	-	18540-29-9	mg/kg	18 U	NA	26 U	55 U	43 U	2 U	58 U	2 U	2 U	2 U	3.4 U	3.2 U	2.6 U	2 U	2 U	NA	2 U	2 U	19 U	39 U	32 U	2.7 U	2 U	2 U
Miscellaneous Parameters:																													
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	*0.5 U*	NA	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	NA	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	**0.2**	NA	*0.2 U*	0.07 J	0.04 J	0.03 J	0.012 J	*0.2 U*	**0.77**	**0.31**	**0.73**	**1.6**	**0.56**	*0.2 U*	0.09 J	NA	*0.2 U*	**0.25**	0.02 J	**0.35**	**0.35**	*0.2 U*	*0.2 U*	**1.2**

N/
NA ...icates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.

Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for removal (A-H, LD-M)

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Location		SD-D2*	SD-D3	SD-E1	SD-E1	SD-E1	SD-E2	SD-E2	SD-E2	SD-E3	SD-E3*	SD-F1*	SD-F1	SD-F2	SD-F2*	SD-F3	SD-F3*	SD-G1	SD-G1	SD-G1*	SD-G2	SD-G2	SD-G2	SD-G3	SD-H1
			Field ID:		SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SD-E2-003	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02	SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01
			Date Sampled:		10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
			Data Type		Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original
			Material Type		Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
			Sample Event		2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	Remedial Objectives	R5 RCRA Sediment ESL	Depth (inches):		24 - 30	0 - 12	0 - 12	12 - 24	36 - 42	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 26	0 - 12	12 - 22	0 - 12	12 - 28	12 - 28	0 - 12	12 - 27	12 - 27	0 - 14	0 - 12
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1,1-Trichloroethane	-	213	71-55-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1,2,2-Tetrachloroethane	-	850	79-34-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1,2-Trichloroethane	-	518	79-00-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1-Dichloroethane	-	0.575	75-34-3	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1-Dichloroethene	-	19.4	75-35-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	290 U	370 U	410 U	280 U	310 U	460 U	NA	510 U	360 U	290 U	270 U	270 U	350 U	290 U	370 U	310 U	380 U	290 U	330 U	300 U	310 U	310 U	360 U	410 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	58 U	12 J	82 U	57 U	63 U	18 JB	NA	100 U	71 U	58 U	21 J	18 J	19 J	14 J	13 J	12 J	77 U	59 U	67 U	59 U	62 U	62 U	72 U	68 J
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	58 U	74 U	82 U	57 U	63 U	23 J	NA	100 U	22 J	58 U	54 U	54 U	69 U	59 U	74 U	63 U	330 U, 77 U	330 U, 59 U	330 U, 67 U	330 U, 59 U	330 U, 62 U	330 U, 62 U	330 U, 72 U	330 U, 81 U
1,2-Dichloroethane	-	260	107-06-2	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	-	333	78-87-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	46 J
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	330 U, 77 U	330 U, 59 U	330 U, 67 U	330 U, 59 U	330 U, 62 U	330 U, 62 U	330 U, 72 U	330 U, 81 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	-	-	594-20-7	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
2-Hexanone	-	58.2	591-78-6	µg/kg	580 U	740 U	820 U	570 U	630 U	920 U	NA	1000 U	710 U	580 U	540 U	540 U	690 U	590 U	740 U	630 U	770 U	590 U	670 U	590 U	620 U	620 U	720 U	810 U
4-Chlorotoluene	-	-	106-43-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
4-Isopropyltoluene	-	-	99-87-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
4-Methyl-2-pentanone	-	25.1	108-10-1	µg/kg	580 U	740 U	820 U	570 U	630 U	920 U	NA	1000 U	710 U	580 U	540 U	540 U	690 U	590 U	740 U	630 U	770 U	590 U	670 U	590 U	620 U	620 U	720 U	810 U
Acetone	-	9.9	67-64-1	µg/kg	610	430 J	300 JB	200 JB	630 U	350 JB	NA	370 JB	260 JB	210 JB	330 J	440 J	640 J	590 U	660 J	440 J	360 J	590 U	320 J	590 U	820	310 J	440 J	560 J
Acrolein	-	0.00152	107-02-8	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	-	142	71-43-2	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Bromobenzene	-	-	108-86-1	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Bromochloromethane	-	-	74-97-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Bromoform	-	492	75-25-2	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Bromomethane	-	-	74-83-9	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Carbon disulfide	-	23.9	75-15-0	µg/kg	580 U	740 U	42 J	12 J	16 J	920 U	NA	44 J	710 U	580 U	540 U	540 U	690 U	590 U	740 U	630 U	22 J	590 U	670 U	16 J	620 U	620 U	33 J	810 U
Carbon tetrachloride	-	1450	56-23-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Chlorobenzene	-	291	108-90-7	µg/kg	58 U	74 U	14 J	35 J	17 J	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Chloroethane	-	-	75-00-3	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Chloroform	-	121	67-66-3	µg/kg	58 U	74 U	14 J	22 J	63 U	92 U	NA	17 J	10 J	14 J	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Chloromethane	-	-	74-87-3	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	20 J	81 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Dibromochloromethane	-	-	124-48-1	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Dibromomethane	-	-	74-95-3	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Ethylbenzene	-	175	100-41-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	8 J	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Ethylene dibromide	-	-	106-93-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	290 U	370 U	820 U	570 U	310 U	920 U	NA	1000 U	710 U	580 U	270 U	270 U	350 U	290 U	370 U	310 U	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	-	-	98-82-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Methyl ethyl ketone	-	42.4	78-93-3	µg/kg	510 J	620 J	160 J	140 J	370 J	220 J	NA	220 J	200 J	200 J	320 J	550	530 J	500 J	900	470 J	710 J	530 J	400 J	430 J	430 J	560 J	640 J	230 J
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	580 U	740 U	820 U	570 U	630 U	920 U	NA	1000 U	710 U	580 U	540 U	540 U	690 U	590 U	740 U	630 U	770 U	590 U	670 U	590 U	620 U	620 U	720 U	810 U
Methylene chloride	-	159	75-09-2	µg/kg	41 J	60 J	82 U	57 U	79 J	92 U	NA	100 U	71 U	58 U	24 J	32 J	58 J	46 J	41 J	46 J	23 J	26 J	29 J	38 J	41 J	23 J	31 J	41 J
n-Butylbenzene	-	-	104-51-8	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	21 JB	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
n-Propylbenzene	-	-	103-65-1	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	19 J
Naphthalene	-	176	91-20-3	µg/kg	290 U	38 J	210 U	21 JB	310 U	230 U	NA	31 JB	36 JB	9 JB	23 J	270 U	350 U	290 U	370 U	310 U	330 U, 380 U	290 U, 330 U	330 U	1.8 J, 300 U	310 U, 330 U	310 U, 330 U	330 U, 360 U	330 U, 410 U
o-Xylene	-	-	95-47-6	µg/kg	58 U	74 U	82 U	57 U	63 U	15 J	NA	100 U	71 U	58 U	64	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	58 U	74 U	82 U	57 U	63 U	58 J	NA	100 U	33 J	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Styrene	-	254	100-42-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Tetrachloroethene	-	990	127-18-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Toluene	-	1220	108-88-3	µg/kg	58 U	19 J	25 J	10 J	63 U	25 J	NA	15 J	71 U	58 U	14 J	12 J	19 J	10 J	11 J	10 J	77 U	59 U	8.7 J	9.5 J	62 U	62 U	7.9 J	11 J
trans-1,2-Dichloroethylene	-	654	156-60-5	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
trans-1,3-Dichloropropene	-	-	10061-02-6	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Trichloroethene	-	112	79-01-6	µg/kg	58 U	74 U	42 JB	27 JB	63 U	42 J	NA	59 JB	71 U	25 JB	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Vinyl chloride	-	202	75-01-4	µg/kg	58 U	74 U	82 U	57 U	63 U	92 U	NA	100 U	71 U	58 U	54 U	54 U	69 U	59 U	74 U	63 U	77 U	59 U	67 U	59 U	62 U	62 U	72 U	81 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	120 U	150 U	160 U	110 U	120 U	180 U	NA	200 U	140 U	120 U	32 J	25 J	30 J	23 J	150 U	120 U	150 U	120 U	130 U	120 U	120 U	120 U	140 U	170 U

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-D2*	SD-D3	SD-E1	SD-E1	SD-E1	SD-E2	SD-E2	SD-E2	SD-E3	SD-E3*	SD-F1*	SD-F1	SD-F2	SD-F2*	SD-F3	SD-F3*	SD-G1	SD-G1	SD-G1*	SD-G2	SD-G2	SD-G2	SD-G3	SD-H1
				Field ID:	SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SD-E2-003	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02	SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01
				Date Sampled:	10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	24 - 30	0 - 12	0 - 12	12 - 24	36 - 42	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 26	0 - 12	12 - 22	0 - 12	12 - 28	12 - 28	0 - 12	12 - 27	12 - 27	0 - 14	0 - 12
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U, 77 U	330 U, 59 U	330 U, 67 U	330 U, 59 U	330 U, 62 U	330 U, 62 U	330 U, 72 U	330 U, 81 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U, 77 U	330 U, 59 U	330 U, 67 U	330 U, 59 U	330 U, 62 U	330 U, 62 U	330 U, 72 U	330 U, 81 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	330 U	330 U	330 U	330 U	330 U	940	NA	410	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylphenol	-	-	95-48-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Nitroaniline	-	-	88-74-4	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	-	-	88-75-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	-	99-09-2	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-[illegible]phenol	-	-	106-44-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-[illegible]aniline	-	-	100-01-6	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg	330 U	**9.5 J**	330 U	330 U	3.6 J	330 U	1640 U	330 U	330 U	330 U	330 U	330 U	5.1 J	330 U	330 U	330 U	330 U	330 U	330 U	**8 J**	330 U	330 U	330 U	330 U
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	3280 U	330 U	330 U	330 U	330 U	330 U	4.7 J	330 U	330 U	330 U	330 U	330 U	330 U	**9,700001 J**	330 U	330 U	330 U	330 U
Anthracene	-	**57.2**	120-12-7	µg/kg	330 U	35 J	**300 J**	**91 J**	330 U	330 U	1640 U	**370**	330 U	330 U	330 U	330 U	13 J	330 U	330 U	330 U	330 U	330 U	330 U	**64 J**	330 U	330 U	330 U	330 U
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	4 J	**180 J**	**850**	**300 J**	5.3 J	330 U	821 U	**1100**	330 U	330 U	8 J	330 U	56 J	5.9 J	21 J	330 U	330 U	330 U	330 U	**180 J**	330 U	330 U	6.8 J	330 U
Benzidine	-	-	92-87-5	µg/kg	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	NA	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	330 U	**160 J**	**630**	**230 J**	5.6 J	330 U	82.5	**830**	330 U	330 U	9.3 J	330 U	51 J	330 U	18 J	330 U	330 U	330 U	330 U	**180 J**	330 U	330 U	9.9 J	330 U
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	330 U	210 J	610	230 J	330 U	330 U	821 U	900	330 U	330 U	14 J	330 U	74 J	330 U	23 J	330 U	330 U	330 U	330 U	140 J	330 U	330 U	11 J	330 U
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	6.3 J	120 J	**330**	86 J	5.8 J	330 U	1640 U	**320 J**	330 U	330 U	6.4 J	330 U	42 J	330 U	10 J	330 U	330 U	330 U	330 U	92 J	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	330 U	99 J	**470**	220 J	330 U	330 U	1640 U	**520**	330 U	330 U	6.4 J	330 U	19 J	330 U	12 J	330 U	330 U	330 U	330 U	120 J	330 U	330 U	330 U	6 J
Benzoic acid	-	-	65-85-0	µg/kg	3300 U	27 J	3300 U	3300 U	3300 U	3300 U	NA	3300 U	3300 U	3300 U	3300 U	3300 U	8.9 J	3300 U	3300 U	3300 U	150 J	45 J	22 J	3300 U	30 J	8.3 J	3300 U	3300 U
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	14 J	51 J	**890**	54 J	11 J	330 U	NA	**2800**	100 J	51 J	20 J	16 J	41 J	14 J	23 J	20 J	11 J	9.4 J	11 J	14 J	13 J	11 J	16 J	20 J
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	330 U	330 U	49 J	330 U	330 U	330 U	NA	330 U	330 U	330 U	18 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Carbazole	-	-	86-74-8	µg/kg	330 U	21 J	110 J	43 J	330 U	330 U	NA	180 J	330 U	330 U	330 U	330 U	8.3 J	330 U	330 U	330 U	330 U	330 U	330 U	27 J	330 U	330 U	330 U	330 U
Chrysene	-	**166**	218-01-9	µg/kg	6.4 J	160 J	**630**	**310 J**	7.3 J	330 U	1640 U	**890**	330 U	330 U	10 J	330 U	57 J	6.3 J	18 J	330 U	330 U	330 U	330 U	**180 J**	330 U	330 U	9.5 J	6.6 J
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	72 J	77 J	330 U	330 U	75 J	330 U	NA	330 U	330 U	58 J	34 J	49 J	77 J	30 J	34 J	34 J	29 J	20 J	23 J	26 J	27 J	24 J	35 J	37 J
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	100 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	330 U	27 J	330 U	330 U	330 U	330 U	82.1 U	330 U	330 U	330 U	330 U	330 U	10 J	330 U	330 U	330 U	330 U	330 U	330 U	**40 J**	330 U	330 U	330 U	330 U
Dibenzofuran	-	**449**	132-64-9	µg/kg	330 U	4.8 J	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	7.2 J	330 U	330 U	330 U	330 U
Diethylphthalate	-	**295**	84-66-2	µg/kg	11 J	13 J	330 U	330 U	8.3 J	330 U	NA	330 U	330 U	330 U	9.6 J	7.8 J	10 J	7.5 J	11 J	12 J	5.9 J	3.7 J	4.4 J	5.5 J	5.1 J	4.5 J	7.8 J	8.2 J
Dimethyl phthalate	-	-	131-11-3	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	NA	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
Fluoranthene	-	**423**	206-44-0	µg/kg	7.3 J	**430**	**1700**	**660**	4.7 J	350	1640 U	**2600**	120 J	330 U	21 J	330 U	140 J	12 J	40 J	6.8 J	5.4 J	330 U	330 U	**470**	330 U	330 U	25 J	13 J
Fluorene	-	**77.4**	86-73-7	µg/kg	330 U	15 J	**220 J**	65 J	330 U	330 U	1640 U	**360**	330 U	330 U	330 U	330 U	7.1 J	330 U	330 U	330 U	330 U	330 U	330 U	35 J	330 U	330 U	330 U	330 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U, 380 U	290 U, 330 U	330 U	300 U, 330 U	310 U, 330 U	310 U, 330 U	330 U, 360 U	330 U, 410 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachloroethane	-	**584**	67-72-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	330 U	120 J	**350**	110 J	330 U	330 U	821 U	**300 J**	330 U	330 U	6.3 J	330 U	36 J	330 U	8.8 J	330 U	330 U	330 U	330 U	81 J	330 U	330 U	330 U	330 U
Isophorone	-	**432**	78-59-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.7 J	330 U
N[illegible]ene	-	**176**	91-20-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	1640 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA
N[illegible]ene	-	**145**	98-95-3	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	NA	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	800 U	800 U	800 U	800 U	800 U	800 U	NA	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	4.5 J	800 U	800 U	800 U	800 U
Phenanthrene	-	**204**	85-01-8	µg/kg	7 J	180 J	**1000**	**380**	8.2 J	**240 J**	1640 U	**1300**	43 J	330 U	8.2 J	330 U	38 J	8.5 J	11 J	3 J	330 U	330 U	330 U	**370**	330 U	330 U	9.8 J	5.1 J
Phenol	-	**49.1**	108-95-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PNAs, Total	-	-	TPNA	µg/kg	39	2065.5	8590	3282	51.5	1890	NA	12200	244	NA	105.6	NA	652.9	44.7	197.8	16	NA	NA	NA	NA	NA	NA	90	NA
Pyrene	-	**195**	129-00-0	µg/kg	8 J	**320 J**	**1500**	**600**	11 J	**360**	1640 U	**2300**	81 J	330 U	16 J	330 U	100 J	12 J	36 J	6.2 J	330 U	330 U	330 U	**420**	330 U	330 U	18 J	11 J

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL			Location	SD-D2*	SD-D3	SD-E1	SD-E1	SD-E1	SD-E2	SD-E2	SD-E2	SD-E3	SD-E3*	SD-F1*	SD-F1	SD-F2	SD-F2*	SD-F3	SD-F3*	SD-G1	SD-G1	SD-G1*	SD-G2	SD-G2	SD-G2	SD-G3	SD-H1
					Field ID:	SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SD-E2-003	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02	SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01
					Date Sampled:	10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	7/24/2007	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
					Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original
					Material Type	Sediment	Sediment	Sediment	Sediment	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
					Sample Event	2003	2003	2003	2003	2003	2003	2007	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
					Depth (inches):	24 - 30	0 - 12	0 - 12	12 - 24	36 - 42	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 26	0 - 12	12 - 22	0 - 12	12 - 28	12 - 28	0 - 12	12 - 27	12 - 27	0 - 14	0 - 12
Polychlorinated Biphenyls (PCBs):																													
PCB, Total	-	**59.8**	TPCB	µg/kg	NA	NA	**9180 J**	12 J	16 J	**560 J**	29.9 U	**4900**	**262 J**	34 J	12 J	NA	**320 J**	11 J	44 J	NA	NA	NA	NA	NA	NA	NA	NA	15 J	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	*330 U*	*330 U*	*640 U*	*330 U*	*330 U*	*330 U*	29.9 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1221	-	**59.8**	11104-28-2	µg/kg	*330 U*	*330 U*	*640 U*	*330 U*	*330 U*	*330 U*	29.9 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1232	-	**59.8**	11141-16-5	µg/kg	*330 U*	*330 U*	*640 U*	*330 U*	*330 U*	*330 U*	29.9 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1242	-	**59.8**	53469-21-9	µg/kg	*330 U*	*330 U*	*640 U*	*330 U*	*330 U*	*330 U*	29.9 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	NA	NA	NA	NA	NA	NA	15 J	NA
PCB-1248	-	**59.8**	12672-29-6	µg/kg	*330 U*	*330 U*	**8700**	12 J	16 J	**370**	29.9 U	**4500**	**240 J**	34 J	12 J	*330 U*	**320 J**	11 J	44 J	*330 U*	NA	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1254	-	**59.8**	11097-69-1	µg/kg	*330 U*	*330 U*	*640 U*	*330 U*	*330 U*	*330 U*	29.9 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	17 J	*330 U*	*330 U*	10 J	23 J
PCB-1260	-	**59.8**	11096-82-5	µg/kg	*330 U*	*330 U*	**480 J**	*330 U*	*330 U*	**190 J**	29.9 U	**400**	22 J	*330 U*	*330 U*	*330 U*	59 J	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*						
Total Metals:																													
Aluminum, Total	-	-	7429-90-5	mg/kg	NA	NA	4360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	5.7	8.7	**19**	5.4	2.2	**18**	**10.7**	**11**	4.3	1.4	4.5	2.4	5.7	1.5	7.5	1.3	**65**	**21**	**22**	**12**	3.6	4.6	6.6	**10**
Barium, Total	-	-	7440-39-3	mg/kg	21	67	64	13	11	133	NA	119	31	9.9	19	17	37	7.5	43	7.4	36	21	14	14	6.7	7.2	40	77
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.057 J	0.2	0.86	0.27	0.089	0.87	0.821 U	1.3	0.23	0.29	0.066	0.041 J	0.088	0.036 J	0.18	0.035 J	0.093	0.063	0.041 J	0.11	0.027 J	0.049 J	0.2	0.26
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	5	11	**181**	5.1	5.4	**1760**	**112**	**396**	29	4.8	11	4.7	12	4.3	**58**	4.5	16	6.9	7.4	7	4.5	4.8	16	41
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	6.1	10	**230**	9	4.9	**1370**	**133**	**513**	23	3.7	8.2	2.5	25	2	**36**	2.6	12	3.6	2.3	5.1	1.8	2.6	15	**33**
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	3.5	6.7	**51**	5.5	3.7	34	**789**	**97**	5.4	2.2	3.2	3.2	6	1.6	7.5	1.7	3.9	2.7	1.8	17	1.6	1.9	10	22
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.013 J	0.045 J	**0.3**	0.014 J	0.0099 J	0.12	NA	**0.41**	0.035 J	0.1 U	0.0097 J	0.1 U	0.026 J	0.1 U	0.044 J	0.1 U	0.019 J	0.0096 J	0.1 U	0.029 J	0.1 U	0.1 U	0.044 J	0.053 J
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	8	12	**87**	8.8	6.4	**189**	**43.5**	**165**	15	6.2	9.1	5.5	9.7	4.6	**26**	4.5	8.9	7	6.2	6.5	6.5	7.8	12	**26**
Selenium, Total	-	-	7782-49-2	mg/kg	0.18 J	0.34	0.58	0.11 J	0.33	1.5	NA	1.5	0.041 J	0.17 J	0.14 J	0.1 J	0.19 J	0.088 J	0.33	0.086 J	0.19 J	0.17 J	0.11 J	0.17 J	0.23 U	0.11 J	0.27 J	0.36 U
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.029 J	0.035 J	0.34 J	0.043 J	0.048 J	0.14 J	NA	**0.8 J**	0.04 J	0.042 J	0.04 J	0.033 J	0.035 J	0.023 J	0.036 J	0.028 J	0.04 J	0.048 J	0.035 J	0.035 J	0.023 J	0.041 J	0.047 J	0.06 J
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	16	47	**289**	20	16	**1930**	**158**	**721**	55	21	24	10	43	9.4	85	10	65	17	11	18	8.9	10	60	79
Chromium(VI)	-	-	18540-29-9	mg/kg	2 U	2 U	9 U	2 U	2 U	34 U	NA	65 U	2.1 U	2 U	2 U	2 U	2 U	2 U	2.2 U	2 U	2 U	0.18 J	0.3 J	2 U	2 U	2.1	2 U	0.9 J
Miscellaneous Parameters:																													
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	**1.3**	NA	0.08 J	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	0.05 J	**0.26**	**0.26**	*0.2 U*	*0.2 U*	**23**	NA	**14**	**0.3**	*0.2 U*	0.06 J	*0.2 U*	**0.43**	*0.2 U*	**1.3**	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	0.07 J	**1.4**

N

NA - Indicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for removal (A-H, LD-M)

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2*	SD-H2*	SD-H3	SD-H3	SD-I1*	SD-I1*	SD-I1*	SD-I1*	SD-I2*	SD-I2*	SD-I2*	SD-I3	SD-I3*	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2
				Field ID:	SDH1-1224-101603-01	SDH1-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD
				Date Sampled:	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007
				Data Type	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate
				Material Type	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	12 - 0	24 - 36	0 - 12	12 - 24	24 - 45	24 - 45	0 - 12	12 - 21	0 - 12	12 - 0	24 - 45	24 - 45	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1,1-Trichloroethane	-	213	71-55-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1,2,2-Tetrachloroethane	-	850	79-34-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1,2-Trichloroethane	-	518	79-00-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1-Dichloroethane	-	0.575	75-34-3	µg/kg	70 U	58 U	50 J	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1-Dichloroethene	-	19.4	75-35-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	350 U	290 U	330 U	340 U	290 U	290 U	420 U	270 U	390 U	290 U	280 U	250 U	310 U	280 U	340 U	610 U	290 U	280 U	380 U	290 U	280 U	280 U	NA	NA
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77 U	57 U	56 U	NA	NA	NA
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	70 U	58 U	66 U	18 J	58 U	59 U	85 U	54 U	78 U	9.2 J	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	10 JB	56 U	NA	NA
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	330 U, 70 U	330 U, 58 U	330 U, 66 U	330 U, 68 U	330 U, 58 U	330 U, 59 U	330 U, 85 U	14 J, 330 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	77 U	57 U	56 U	330 U, 56 U	NA	NA
1,2-Dichloroethane	-	260	107-06-2	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	-	333	78-87-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	330 U, 70 U	330 U, 58 U	330 U, 66 U	330 U, 68 U	330 U, 58 U	330 U, 59 U	330 U, 85 U	330 U, 54 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	77 U	57 U	56 U	330 U, 56 U	NA	NA
1,3-Dichloropropane	-	-	142-28-9	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77 U	57 U	56 U	NA	NA	NA
2,2-Dichloropropane	-	-	594-20-7	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
2-Chlorotoluene	-	-	95-49-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
2-Hexanone	-	58.2	591-78-6	µg/kg	700 U	580 U	660 U	680 U	580 U	590 U	850 U	540 U	780 U	580 U	560 U	500 U	620 U	570 U	680 U	1200 U	590 U	560 U	770 U	570 U	560 U	560 U	NA	NA
4-Chlorotoluene	-	-	106-43-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
4-Isopropyltoluene	-	-	99-87-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
4-Methyl-2-pentanone	-	25.1	108-10-1	µg/kg	700 U	580 U	660 U	680 U	580 U	590 U	850 U	540 U	780 U	580 U	560 U	500 U	620 U	570 U	680 U	1200 U	590 U	560 U	770 U	570 U	560 U	560 U	NA	NA
Acetone	-	9.9	67-64-1	µg/kg	880	390 J	430 J	640 J	400 J	400 J	700 J	450 J	400 J	250 J	310 J	500 U	340 J	300 J	320 J	590 J	380 J	460 J	260 JB	190 JB	190 JB	250 J	NA	NA
Acrolein	-	0.00152	107-02-8	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	-	142	71-43-2	µg/kg	70 U	58 U	66 U	38 J	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Bromobenzene	-	-	108-86-1	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Bromochloromethane	-	-	74-97-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Bromoform	-	492	75-25-2	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Bromomethane	-	-	74-83-9	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Carbon disulfide	-	23.9	75-15-0	µg/kg	700 U	580 U	660 U	680 U	580 U	590 U	33 J	540 U	27 J	13 J	560 U	500 U	16 J	570 U	12 J	1200 U	14 J	560 U	28 J	570 U	560 U	15 J	NA	NA
Carbon tetrachloride	-	1450	56-23-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Chlorobenzene	-	291	108-90-7	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Chloroethane	-	-	75-00-3	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Chloroform	-	121	67-66-3	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	14 J	12 J	16 J	56 U	NA	NA
Chloromethane	-	-	74-87-3	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	16 J	56 U	NA	NA
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	70 U	58 U	360	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Dibromochloromethane	-	-	124-48-1	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Dibromomethane	-	-	74-95-3	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Dichlorobromomethane	-	-	75-27-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Ethylbenzene	-	175	100-41-4	µg/kg	70 U	58 U	66 U	14 J	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Ethylene dibromide	-	-	106-93-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	770 U	570 U	560 U	NA	NA	NA
Isopropylbenzene	-	-	98-82-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Methyl ethyl ketone	-	42.4	78-93-3	µg/kg	600 J	600	580 J	710	410 J	410 J	620 J	590	460 J	350 J	250 J	290 J	400 J	360 J	500 J	640 J	590 U	230 J	150 J	92 J	110 J	290 J	NA	NA
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	700 U	580 U	660 U	680 U	580 U	590 U	850 U	540 U	780 U	580 U	560 U	500 U	620 U	570 U	680 U	1200 U	590 U	560 U	770 U	570 U	560 U	560 U	NA	NA
Methylene chloride	-	159	75-09-2	µg/kg	47 J	29 J	120 J	25 J	28 J	28 J	41 J	29 J	62 J	31 J	31 J	46 J	36 J	30 J	56 J	90 J	29 J	43 J	77 U	57 U	56 U	17 J	NA	NA
n-Butylbenzene	-	-	104-51-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
n-Propylbenzene	-	-	103-65-1	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Naphthalene	-	176	91-20-3	µg/kg	330 U, 350 U	290 U, 330 U	330 U	330 U, 38 J	290 U, 330 U	290 U, 330 U	330 U, 420 U	270 U, 330 U	330 U, 390 U	290 U, 330 U	280 U, 330 U	250 U, 330 U	310 U, 330 U	280 U, 330 U	330 U, 340 U	330 U, 610 U	290 U, 330 U	280 U, 330 U	12 JB	9 JB	140 U	280 U, 330 U	NA	NA
o-Xylene	-	-	95-47-6	µg/kg	70 U	58 U	66 U	18 J	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
sec-Butylbenzene	-	-	135-98-8	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Styrene	-	254	100-42-5	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
tert-Butylbenzene	-	-	98-06-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Tetrachloroethene	-	990	127-18-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Toluene	-	1220	108-88-3	µg/kg	70 U	58 U	12 J	140	58 U	11 J	12 J	54 U	13 J	8.1 J	6.7 J	5.8 J	14 J	6 J	68 U	16 J	59 U	56 U	77 U	57 U	56 U	11 J	NA	NA
trans-1,2-Dichloroethylene	-	654	156-60-5	µg/kg	70 U	58 U	46 J	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
trans-1,3-Dichloropropene	-	-	10061-02-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Trichloroethene	-	112	79-01-6	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	48 JB	57 U	56 U	56 U	NA	NA
Trichlorofluoromethane	-	-	75-69-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Vinyl chloride	-	202	75-01-4	µg/kg	70 U	58 U	66 U	68 U	58 U	59 U	85 U	54 U	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	140 U	120 U	130 U	39 J	120 U	120 U	170 U	110 U	160 U	120 U	110 U	100 U	120 U	110 U	140 U	240 U	120 U	110 U	150 U	110 U	110 U	110 U	NA	NA

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2*	SD-H2*	SD-H3	SD-H3	SD-I1*	SD-I1*	SD-I1*	SD-I1*	SD-I2*	SD-I2*	SD-I2*	SD-I3	SD-I3*	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2
				Field ID:	SDHI-1224-101603-01	SDHI-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD
				Date Sampled:	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007
				Data Type	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate
				Material Type	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	12 - 0	24 - 36	0 - 12	12 - 24	24 - 45	24 - 45	0 - 12	12 - 21	0 - 12	12 - 0	24 - 45	24 - 45	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	330 U, 70 U	330 U, 58 U	330 U, 66 U	330 U, 68 U	330 U, 58 U	330 U, 59 U	330 U, 85 U	330 U, 54 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	330 U	330 U	330 U	330 U, 56 U	NA	NA
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	NA	NA
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	NA	NA
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	330 U, 70 U	330 U, 58 U	330 U, 66 U	330 U, 68 U	330 U, 58 U	330 U, 59 U	330 U, 85 U	330 U, 54 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	330 U	330 U	330 U	330 U, 56 U	NA	NA
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	8.8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2-Methylphenol	-	-	95-48-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
2-Nitroaniline	-	-	88-74-4	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
2-Nitrophenol	-	-	88-75-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	NA
3,4-Methylphenol	-	-	108-39-4	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	-	99-09-2	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
4-Chloroaniline	-	**146**	106-47-8	µg/kg	1700 U	1700 U	1700 U	1700 U	2.4 J	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
4-Chlorophenol	-	-	106-44-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
4-Chloroaniline	-	-	100-01-6	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA
Acenaphthene	-	**6.71**	83-32-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	2650 U	2820 U
Anthracene	-	**57.2**	120-12-7	µg/kg	330 U	330 U	29 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	5.3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	6.3 J	330 U	28 J	12 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	28 J	330 U	330 U	16 J	330 U	330 U	63 J	330 U	330 U	8 J	661 U	706 U
Benzidine	-	-	92-87-5	µg/kg	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	NA	NA
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	330 U	330 U	28 J	330 U	330 U	330 U	9.4 J	330 U	330 U	330 U	330 U	330 U	23 J	330 U	330 U	22 J	330 U	330 U	72 J	330 U	330 U	7.5 J	66.1 U	70.6 U
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	330 U	330 U	41 J	330 U	330 U	330 U	11 J	330 U	330 U	330 U	330 U	330 U	22 J	330 U	330 U	20 J	330 U	330 U	89 J	330 U	330 U	9.8 J	661 U	706 U
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	330 U	330 U	18 J	3 J	330 U	330 U	3.3 J	330 U	330 U	330 U	330 U	330 U	14 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	6.3 J	1320 U	1410 U
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	330 U	330 U	14 J	330 U	330 U	330 U	5.6 J	330 U	330 U	330 U	330 U	330 U	15 J	330 U	330 U	21 J	330 U	330 U	74 J	330 U	330 U	8.4 J	1320 U	1410 U
Benzoic acid	-	-	65-85-0	µg/kg	140 J	3300 U	6.4 J	320 J	210 J	140 J	3300 U	3300 U	3300 U	3300 U	5.8 J	3300 U	3300 U	130 J	6.4 J	98 J	8.1 J	11 J	3300 U	3300 U	3300 U	18 J	NA	NA
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	NA
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	**260 J**	10 J	23 J	**200 J**	15 J	9 J	49 J	12 J	23 J	19 J	19 J	16 J	13 J	18 J	18 J	38 J	19 J	17 J	110 J	71 J	330 U	43 J	NA	NA
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	330 U	330 U	17 J	330 U	6.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Carbazole	-	-	86-74-8	µg/kg	330 U	330 U	9 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Chrysene	-	**166**	218-01-9	µg/kg	9.1 J	330 U	26 J	12 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	26 J	330 U	330 U	22 J	330 U	330 U	65 J	330 U	330 U	9 J	1320 U	1410 U
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	31 J	28 J	29 J	25 J	29 J	30 J	39 J	25 J	57 J	40 J	31 J	40 J	28 J	34 J	52 J	85 J	35 J	32 J	81 J	330 U	59 J	51 J	NA	NA
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	66.1 U	70.6 U
Dibenzofuran	-	**449**	132-64-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Diethylphthalate	-	**295**	84-66-2	µg/kg	330 U	5.9 J	7.9 J	330 U	6.8 J	6.8 J	13 J	6.6 J	15 J	12 J	8.9 J	9.5 J	11 J	9.4 J	14 J	17 J	7.8 J	6.4 J	330 U	330 U	330 U	14 J	NA	NA
Dimethyl phthalate	-	-	131-11-3	µg/kg	3300 U	3300 U	6.5 J	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	NA	NA
Fluoranthene	-	**423**	206-44-0	µg/kg	20 J	330 U	62 J	22 J	330 U	330 U	21 J	330 U	330 U	330 U	330 U	330 U	43 J	330 U	330 U	45 J	330 U	330 U	210 J	330 U	330 U	18 J	1320 U	1410 U
Fluorene	-	**77.4**	86-73-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	330 U, 350 U	290 U, 330 U	330 U	330 U, 340 U	290 U, 330 U	290 U, 330 U	330 U, 420 U	270 U, 330 U	330 U, 390 U	290 U, 330 U	280 U, 330 U	250 U, 330 U	310 U, 330 U	280 U, 330 U	330 U, 340 U	330 U, 610 U	290 U, 330 U	280 U, 330 U	330 U	330 U	330 U	280 U, 330 U	NA	NA
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Hexachloroethane	-	**584**	67-72-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	330 U	330 U	18 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	14 J	330 U	330 U	14 J	330 U	330 U	330 U	330 U	330 U	5.3 J	661 U	706 U
Isophorone	-	**432**	78-59-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Naphthalene	-	**176**	91-20-3	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	1320 U	1410 U
Nitrobenzene	-	**145**	98-95-3	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	NA	NA
Phenanthrene	-	**204**	85-01-8	µg/kg	10 J	330 U	32 J	330 U	330 U	330 U	9.4 J	330 U	330 U	330 U	330 U	330 U	11 J	330 U	330 U	15 J	330 U	330 U	67 J	330 U	330 U	9.3 J	1320 U	1410 U
Phenol	-	**49.1**	108-95-2	µg/kg	330 U	330 U	330 U	14 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	19 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA
PNAs, Total	-	-	TPNA	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820	NA	NA	NA	NA	NA
Pyrene	-	**195**	129-00-0	µg/kg	17 J	330 U	53 J	26 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	42 J	330 U	330 U	31 J	330 U	330 U	180 J	330 U	330 U	16 J	1320 U	1410 U

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL			Location	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2*	SD-H2*	SD-H3	SD-H3	SD-I1*	SD-I1*	SD-I1*	SD-I1*	SD-I2*	SD-I2*	SD-I2*	SD-I3	SD-I3*	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2
					Field ID:	SDHI-1224-101603-01	SDHI-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD
					Date Sampled:	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007
					Data Type	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate
					Material Type	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
					Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007
					Depth (inches):	12 - 0	24 - 36	0 - 12	12 - 24	24 - 45	24 - 45	0 - 12	12 - 21	0 - 12	12 - 0	24 - 45	24 - 45	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12
Polychlorinated Biphenyls (PCBs):																													
PCB, Total	-	**59.8**	TPCB	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**126 J**	7 J	NA	NA	NA	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
PCB-1221	-	**59.8**	11104-28-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
PCB-1232	-	**59.8**	11141-16-5	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
PCB-1242	-	**59.8**	53469-21-9	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
PCB-1248	-	**59.8**	12672-29-6	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**110 J**	7 J	*330 U*	NA	0.045 U	31.1 U
PCB-1254	-	**59.8**	11097-69-1	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
PCB-1260	-	**59.8**	11096-82-5	µg/kg	**67 J**	*330 U*	49 J	**120 J**	*330 U*	*330 U*	27 J	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	16 J	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U
Total Metals:																													
Aluminum, Total	-	-	7429-90-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5260	NA	NA	NA	NA	NA
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	8.2	5.3	4.5	6.4	8.9	6.8	**11**	4.6	8.9	**18**	6.3	**10**	4.9	3.4	6.4	**18**	3.4	4.6	8.7	1.7	2.8	8.4	5.04	6.28
Barium, Total	-	-	7440-39-3	mg/kg	49	37	25	28	19	11	54	9.4	54	13	11	8.4	17	7	11	128	18	18	74	10	8.2	48	NA	NA
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.17	0.14	0.088	0.11	0.059	0.039 J	0.28	0.045 J	0.21	0.068	0.056 J	0.053 J	0.076	0.029 J	0.054 J	0.42	0.069	0.081	0.72	0.24	0.23	0.23	0.757 U	0.706 U
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	**771**	13	16	**99**	5.1	5.1	**71**	6.7	26	9.8	5.2	4.2	10	3.6	4.1	**102**	13	12	40	7.5	5.3	**74**	11.3	13.5
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	**563**	11	20	**61**	2.6	1.7	**63**	3	17	3.1	3.3	2	2.8	0.8 J	1.2 J	**82**	11	8	**47**	5.4	4.1	**64**	14.47	12.5
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	14	5.9	4.6	9	2.1	1.7	11	2.1	7.5	2.9	2.4	1.9	5.7	1.5	1.6	17	3.2	3.9	12	2.4	2.1	16	4.16	4.18
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.03 J	0.019 J	0.017 J	0.062 J	0.012 J	0.1 U	0.049 J	0.1 U	0.057 J	0.015 J	0.0096 J	0.1 U	0.031 J	0.012 J	0.012 J	0.12	0.021 J	0.019 J	0.04 J	0.1 U	0.011 J	0.038 J	NA	NA
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	**150**	12	**41**	**40**	5.3	5.3	**45**	7.2	11	7.9	7	9.1	6.1	3.5	3.8	**39**	8.9	8.6	**26**	7.5	6.9	**34**	8.04	8.62
Selenium, Total	-	-	7782-49-2	mg/kg	0.38	0.13 J	0.13 J	0.26 J	0.13 J	0.13 J	0.46	0.14 J	0.36	0.12 J	0.16 J	0.29	0.14 J	0.33 U	0.13 J	0.65	0.15 J	1.9	0.48	0.43	0.24	0.33	NA	NA
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.049 J	0.083 J	0.047 J	0.09 J	0.037 J	0.03 J	0.06 J	0.038 J	0.061 J	0.046 J	0.039 J	0.038 J	0.033 J	0.019 J	0.023 J	0.13 J	0.045 J	0.058 J	0.092 J	0.049 J	0.028 J	0.12 J	NA	NA
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	**784**	36	101	**178**	11	9.7	**127**	11	50	15	11	7.1	19	9.9	8.8	114	19	18	89	22	12	108	29.7	31.4
Chromium(VI)	-	-	18540-29-9	mg/kg	2 U	2 U	2 U	2 U	0.13 J	2 U	2 U	0.19 J	2 U	0.42 J	0.34 J	2 U	2 U	2 U	3	26	1.8 J	2 U	2.1 U	2 U	2 U	2 U		
Miscellaneous Parameters:																													
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*0.5 U*	*0.5 U*	*0.5 U*	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	**11**	**0.74**	**0.24**	**1.4**	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	**1.5**	*0.2 U*	*0.2 U*	0.07 J	0.02 J	*0.2 U*	**0.32**	NA	NA

N/ .dicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for removal (A-H, LD-M)

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL																										
Location					SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1	SD-K3	SD-K3*	SD-LU1*	SD-LU2*	SD-LU3*	SD-L1 (2003 SD-L3)	SD-L1* (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3* (2003 SD-L1)	SD-LD1*	SD-LD2
Field ID:					SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	LD-09-SD-1A 0911425-18	LD-09-SD-2A 0911425-19
Date Sampled:					10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	40136	40136
Data Type					Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original
Material Type					Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Event					2003	2003	2003	2003	2003	2003	2003	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2009	2009
Depth (inches):					12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 14	0 - 13
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1,1-Trichloroethane	-	213	71-55-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1,2,2-Tetrachloroethane	-	850	79-34-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1,2-Trichloroethane	-	518	79-00-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1-Dichloroethane	-	0.575	75-34-3	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1-Dichloroethene	-	19.4	75-35-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	320 U	420 U	390 U	400 U	280 U	290 U	380 U	330 U	270 U	62 U	59 U	65 U	290 U	56 U	300 U	290 U	58 U	410 U	400 U	65 U	340 U	67 U	64 U	61 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	NA	84 U	77 U	NA	NA	NA	NA	NA	NA	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	65 U	84 U	77 U	80 U	56 U	12 J	77 U	11 J	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	310 U	290 U	330 U	57 U	280 U	60 U	58 U	290 U	82 U	81 U	330 U	68 U	330 U	320 U	310 U
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	330 U, 65 U	84 U	77 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2-Dichloroethane	-	260	107-06-2	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	120 U	120 U	130 U	NA	110 U	NA	NA	120 U	NA	NA	130 U	NA	130 U	130 U	120 U
1,2-Dichloropropane	-	333	78-87-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	330 U, 65 U	84 U	77 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	NA	84 U	77 U	NA	NA	NA	NA	NA	NA	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
2,2-Dichloropropane	-	-	594-20-7	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
2-Hexanone	-	58.2	591-78-6	µg/kg	650 U	840 U	770 U	800 U	560 U	590 U	770 U	670 U	550 U	3100 U	2900 U	3300 U	570 U	2800 U	600 U	580 U	2900 U	820 U	810 U	3300 U	680 U	3300 U	3200 U	3100 U
4-Chlorotoluene	-	-	106-43-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
4-I[illegible]opyltoluene	-	-	99-87-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
4[illegible]2-pentanone	-	25.1	108-10-1	µg/kg	650 U	840 U	770 U	800 U	560 U	590 U	770 U	670 U	550 U	3100 U	2900 U	3300 U	570 U	2800 U	600 U	580 U	2900 U	820 U	810 U	3300 U	680 U	3300 U	3200 U	3100 U
Ac[illegible]	-	9.9	67-64-1	µg/kg	650 U	340 JB	250 JB	710 J	560 U	300 J	550 J	670 U	550 U	840 U	110 J	180 J	570 U	840 U	600 U	580 U	240 J*	820 U	810 U	170 J	680 U	130 J	310 J	370 J
Acrolein	-	0.00152	107-02-8	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	310 U	290 U	330 U	NA	280 U	NA	NA	290 U	NA	NA	330 U	NA	330 U	320 U	310 U
Benzene	-	142	71-43-2	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Bromobenzene	-	-	108-86-1	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Bromochloromethane	-	-	74-97-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Bromoform	-	492	75-25-2	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Bromomethane	-	-	74-83-9	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	130	81 U	65 U	61 J	67 U	64 U	61 U
Carbon disulfide	-	23.9	75-15-0	µg/kg	41 J	840 U	22 J	800 U	560 U	590 U	52 J	670 U	550 U	310 U	290 U	330 U	570 U	280 U	600 U	580 U	290 U	820 U	810 U	330 U	680 U	330 U	320 U	370
Carbon tetrachloride	-	1450	56-23-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Chlorobenzene	-	291	108-90-7	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Chloroethane	-	-	75-00-3	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Chloroform	-	121	67-66-3	µg/kg	65 U	18 J	15 J	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Chloromethane	-	-	74-87-3	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Dibromochloromethane	-	-	124-48-1	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Dibromomethane	-	-	74-95-3	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	NA	NA	NA	57 U	NA	60 U	58 U	NA	82 U	81 U	NA	68 U	NA	NA	NA
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Ethylbenzene	-	175	100-41-4	µg/kg	65 U	84 U	77 U	80 U	56 U	8.2 J	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Ethylene dibromide	-	-	106-93-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	NA	840 U	770 U	NA	NA	NA	NA	NA	NA	62 U	59 U	65 U	570 U	56 U	600 U	580 U	58 U	820 U	810 U	65 U	680 U	67 U	64 U	61 U
Isopropylbenzene	-	-	98-82-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Methyl ethyl ketone	-	42.4	78-93-3	µg/kg	420 J	230 J	170 J	690 J	380 J	450 J	570 J	620 J	340 J	52 J	52 J	78 J	570 U	52 J	600 U	580 U	2900 U	820 U	810 U	78 J	680 U	70 J	3200 U	3100 U
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	650 U	840 U	770 U	800 U	560 U	590 U	770 U	670 U	550 U	62 U	59 U	65 U	570 U	56 U	600 U	580 U	58 U	820 U	810 U	65 U	680 U	67 U	64 U	61 U
Methylene chloride	-	159	75-09-2	µg/kg	54 J	84 U	77 U	27 J	10 J	29 J	38 J	45 J	16 J	61 J	30 J	44 J	390	41 J	400	370	60 J	82 U	81 U	43 J	68 U	40 J	53 J	81 J
n-Butylbenzene	-	-	104-51-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
n-Propylbenzene	-	-	103-65-1	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Naphthalene	-	176	91-20-3	µg/kg	320 U, 330 U	11 JB	190 U	330 U, 400 U	280 U, 330 U	290 U, 330 U	330 U, 380 U	330 U	270 U, 330 U	310 U	290 U	330 U	140 U	280 U	150 U	140 U	290 U	210 U	200 U	330 U	170 U	330 U	320 U	310 U
o-Xylene	-	-	95-47-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Styrene	-	254	100-42-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Tetrachloroethene	-	990	127-18-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	22 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	29 J	64 U	61 U
Toluene	-	1220	108-88-3	µg/kg	15 J	84 U	77 U	80 U	56 U	18 J	77 U	17 J	8.8 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
trans-1,2-Dichloroethylene	-	654	156-60-5	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
t[illegible]-Dichloropropene	-	-	10061-02-6	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
T[illegible]ethene	-	112	79-01-6	µg/kg	65 U	54 JB	37 JB	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Vinyl chloride	-	202	75-01-4	µg/kg	65 U	84 U	77 U	80 U	56 U	59 U	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	61 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	130 U	170 U	150 U	160 U	110 U	22 J	150 U	130 U	110 U	120 U	120 U	130 U	110 U	110 U	120 U	120 U	120 U	160 U	160 U	130 U	140 U	130 U	130 U	120 U

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					Location	SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1	SD-K3	SD-K3*	SD-LU1*	SD-LU2*	SD-LU3*	SD-L1 (2003 SD-L3)	SD-L1* (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3* (2003 SD-L1)	SD-LD1*	SD-LD2
					Field ID:	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	LD-09-SD-1A 0911425-18	LD-09-SD-2A 0911425-19
					Date Sampled:	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	40136	40136
					Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original
					Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
					Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2009	2009
	Remedial Objectives	R5 RCRA Sediment ESL			Depth (inches):	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 14	0 - 13
Semi-Volatile Organic Compounds																													
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg		330 U, 65 U	330 U	330 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	64 U	61 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg		NA	NA	NA	NA	NA	NA	NA	NA	NA	32	13 J	98	NA	19 U	NA	NA	72	NA	NA	83	NA	41	25	30
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg		NA	330 U	330 U	NA	NA	NA	NA	NA	NA	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	64 U	61 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg		NA	330 U	330 U	NA	NA	NA	NA	NA	NA	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	64 U	61 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg		330 U, 65 U	330 U	330 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	64 U	61 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	450 U	390 U	470 U	330 UJ	380 U	330 UJ	330 UJ	390 U	330 UJ	330 UJ	470 U	330 UJ	440 U	420 U	440 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	450 U	390 U	470 U	1700 UJ	380 U	1700 UJ	1700 UJ	390 U	1700 UJ	1700 UJ	470 U	1700 UJ	440 U	420 U	440 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	45 U	39 U	47 U	330 UJ	38 U	330 UJ	330 UJ	39 U	330 UJ	330 UJ	47 U	330 UJ	44 U	42 U	44 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	1.8 J	21 U	22 U
2-Methylphenol	-	-	95-48-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2-Nitroaniline	-	-	88-74-4	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	23 U	20 U	23 U	1700 UJ	19 U	1700 UJ	1700 UJ	20 U	1700 UJ	1700 UJ	23 U	1700 UJ	22 U	21 U	22 U
2-Nitrophenol	-	-	88-75-5	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg		2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	230 U	200 U	230 U	2000 UJ	190 U	2000 UJ	2000 UJ	200 U	2000 UJ	2000 UJ	230 U	2000 UJ	220 U	210 U	220 U
3,4-Methylphenol	-	-	108-39-4	µg/kg		NA	NA	NA	NA	NA	NA	NA	NA	NA	23 U	20 U	23 U	NA	19 U	NA	NA	20 U	NA	NA	23 U	NA	22 U	21 U	22 U
3-Nitroaniline	-	-	99-09-2	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	45 U	39 U	47 U	1700 UJ	38 U	1700 UJ	1700 UJ	39 U	1700 UJ	1700 UJ	47 U	1700 UJ	44 U	42 U	44 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	90 U	78 U	93 U	1700 UJ	75 U	1700 UJ	1700 UJ	78 U	1700 UJ	1700 UJ	93 U	1700 UJ	89 U	85 U	88 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	45 U	39 U	47 U	1700 UJ	38 U	1700 UJ	1700 UJ	39 U	1700 UJ	1700 UJ	47 U	1700 UJ	44 U	42 U	44 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
2-Chlorophenol	-	-	106-44-5	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
4-Chloroaniline	-	-	100-01-6	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	90 U	78 U	93 U	1700 UJ	75 U	1700 UJ	1700 UJ	78 U	1700 UJ	1700 UJ	93 U	1700 UJ	89 U	85 U	88 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	450 U	390 U	470 U	1700 UJ	380 U	1700 UJ	1700 UJ	390 U	1700 UJ	1700 UJ	470 U	1700 UJ	440 U	420 U	440 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg		**11 J**	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.0 J	20 U	**8.1 J**	330 UJ	19 U	330 UJ	330 UJ	2.8 J	330 UJ	330 UJ	**8.1 J**	330 UJ	2.2 J	2.5 J	5.3 J
Acenaphthylene	-	**5.87**	208-96-8	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	5.6 J	330 UJ	19 U	330 UJ	330 UJ	5.1 J	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Anthracene	-	**57.2**	120-12-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	330 UJ	NA	330 UJ	330 UJ	NA	**93 J**	39 J	NA	330 UJ	NA	NA	NA
Benz(a)anthracene	-	**108**	56-55-3	µg/kg		6.9 J	330 U	330 U	9.5 J	330 U	330 U	330 U	330 U	330 U	33	14 J	87	330 UJ	3.0 J	330 UJ	91 J	81	**370 J**	**190 J**	87	330 UJ	46	23	28
Benzidine	-	-	92-87-5	µg/kg		5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	900 U	780 U	930 U	5000 UJ	750 U	5000 UJ	5000 UJ	780 U	5000 UJ	5000 UJ	930 U	5000 UJ	890 U	850 U	880 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg		6.7 J	330 U	330 U	9.5 J	330 U	330 U	330 U	330 U	330 U	35	13 J	72	330 UJ	3.4 J	330 UJ	330 UJ	71	**300 J**	**170 J**	72	330 UJ	45	18 J	19 J
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg		7.2 J	330 U	330 U	10 J	330 U	330 U	330 U	330 U	330 U	57	18 J	170	330 UJ	4.5 J	330 UJ	110 J	89	420 J	240 J	120	330 UJ	71	37	31
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	24 J	9.3 J	64	330 UJ	1.5 J	330 UJ	49 J	25 J	**200 J**	74 J	51	330 UJ	26 J	13 J	12 J
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg		7.5 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	20 J	12 J	63	330 UJ	19 U	330 UJ	69 J	67	190 J	110 J	41	330 UJ	18 J	14 J	16 J
Benzoic acid	-	-	65-85-0	µg/kg		16 J	3300 U	320 J	35 J	3300 U	3300 U	110 J	3300 U	3300 U	450 U	390 U	470 U	3300 UJ	380 U	3300 UJ	3300 UJ	390 U	3300 UJ	3300 UJ	470 U	3300 UJ	440 U	420 U	440 U
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg		1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	23 U	20 U	23 U	1300 UJ	19 U	1300 UJ	1300 UJ	**32**	1300 UJ	1300 UJ	23 U	1300 UJ	22 U	21 U	**66**
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	23 U	20 U	23 U	100 UJ	19 U	100 UJ	100 UJ	20 U	100 UJ	100 UJ	23 U	100 UJ	22 U	21 U	22 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	330 UJ	NA	330 UJ	330 UJ	NA	330 UJ	330 UJ	NA	330 UJ	NA		
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg		36 J	90 J	56 J	16 J	9.1 J	9.5 J	13 J	15 J	16 J	52	14 J	25 J	330 UJ	52	330 UJ	330 UJ	15 J	330 UJ	82 J	25 J	330 UJ	12 J	13 J	13 J
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg		330 U	330 U	330 U	330 U	4.7 J	330 U	330 U	330 U	330 U	45 U	15 J	7.8 J	330 UJ	22 J	330 UJ	330 UJ	39 U	330 UJ	330 UJ	19 J	330 UJ	44 U	42 U	44 U
Carbazole	-	-	86-74-8	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	450 U	390 U	470 U	330 UJ	380 U	330 UJ	330 UJ	390 U	330 UJ	330 UJ	470 U	330 UJ	440 U	420 U	440 U
Chrysene	-	**166**	218-01-9	µg/kg		6.7 J	330 U	330 U	12 J	330 U	330 U	330 U	330 U	330 U	32	13 J	98	330 UJ	19 U	330 UJ	110 J	72	**350 J**	**180 J**	83	330 UJ	41	25	30
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg		330 U	88 J	330 U	21 J	20 J	20 J	26 J	47 J	35 J	190 J	150 J	72 J	340 J	180 J	18 J	140 J	160 J	160 J	330 UJ	72 J	330 UJ	100 J	49 J	65 J
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	19 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	45 U	39 U	47 U	330 UJ	38 U	330 UJ	330 UJ	39 U	330 UJ	330 UJ	47 U	330 UJ	44 U	42 U	44 U
Dibenzofuran	-	**449**	132-64-9	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Diethylphthalate	-	**295**	84-66-2	µg/kg		16 J	330 U	330 U	4.5 J	4.3 J	4.1 J	5.3 J	14 J	11 J	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	4.4 J	330 UJ	330 UJ	23 U	330 UJ	22 U	4.6 J	6.2 J
Dimethyl phthalate	-	-	131-11-3	µg/kg		3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	23 U	20 U	23 U	3300 UJ	19 U	3300 UJ	3300 UJ	20 U	3300 UJ	3300 UJ	23 U	3300 UJ	22 U	21 U	22 U
Fluoranthene	-	**423**	206-44-0	µg/kg		21 J	330 U	330 U	17 J	330 U	330 U	330 U	330 U	330 U	70	28	240	330 UJ	6.4 J	330 UJ	250 J	190	**1000 J**	**490 J**	190	330 UJ	79	68	94
Fluorene	-	**77.4**	86-73-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	57 J	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg		320 U, 330 U	330 U	330 U	330 U, 400 U	280 U, 330 U	290 U, 330 U	330 U, 380 U	330 U	270 U, 330 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	64 U	61 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Hexachloroethane	-	**584**	67-72-1	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	38 U	8.1 J	59	330 UJ	38 U	330 UJ	41 J	22 J	160 J	75 J	41 J	330 UJ	26 J	10 J	9.8 J
Isophorone	-	**432**	78-59-1	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
[illegible]lene	-	**176**	91-20-3	µg/kg		NA	330 U	330 U	NA	NA	NA	NA	NA	NA	310 U	290 U	330 U	330 UJ	280 U	330 UJ	330 UJ	290 U	330 UJ	330 UJ	330 U	330 UJ	330 U	320 U	310 U
[illegible]nzene	-	**145**	98-95-3	µg/kg		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	23 U	20 U	23 U	200 UJ	19 U	200 UJ	200 UJ	20 U	200 UJ	200 UJ	23 U	200 UJ	22 U	21 U	22 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	22 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg		800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	230 U	200 U	230 U	800 UJ	190 U	800 UJ	800 UJ	200 U	800 UJ	800 UJ	230 U	800 UJ	220 U	210 U	220 U
Phenanthrene	-	**204**	85-01-8	µg/kg		4.7 J	330 U	330 U	6.5 J	330 U	330 U	330 U	330 U	330 U	34	9.7 J	170	330 UJ	2.2 J	330 UJ	90 J	76	**580 J**	**240 J**	110	330 UJ	44	22	19 J
Phenol	-	**49.1**	108-95-2	µg/kg		330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	230 U	200 U	230 U	330 UJ	190 U	330 UJ	330 UJ	200 U	330 UJ	330 UJ	230 U	330 UJ	220 U	210 U	220 U
PNAs, Total	-	-	TPNA	µg/kg		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1010	NA	4450	2168	NA	NA	NA	NA	NA
Pyrene	-	**195**	129-00-0	µg/kg		18 J	330 U	330 U	14 J	330 U	330 U	330 U	330 U	330 U	72	27	**270**	330 UJ	4.9 J	330 UJ	**200 J**	160	**730 J**	**360 J**	180	330 UJ	87	46	61

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1	SD-K3	SD-K3*	SD-LU1*	SD-LU2*	SD-LU3*	SD-L1 (2003 SD-L3)	SD-L1* (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3* (2003 SD-L1)	SD-LD1*	SD-LD2
				Field ID:	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	LD-09-SD-1A 0911425-18	LD-09-SD-2A 0911425-19
				Date Sampled:	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	40136	40136
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2009	2009
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 14	0 - 13
Polychlorinated Biphenyls (PCBs):																												
PCB, Total	-	**59.8**	TPCB	µg/kg	NA	22.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52 J	NA	38 J	33 J	NA	NA	NA	NA	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
PCB-1221	-	**59.8**	11104-28-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
PCB-1232	-	**59.8**	11141-16-5	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
PCB-1242	-	**59.8**	53469-21-9	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
PCB-1248	-	**59.8**	12672-29-6	µg/kg	NA	13 J	*330 U*	NA	NA	NA	NA	NA	NA	*370 U*	23 J	27 J	*330 U*	*370 U*	*330 U*	52 J	32 J	38 J	33 J	27 J	*330 U*	*440 U*	13 J	32 J
PCB-1254	-	**59.8**	11097-69-1	µg/kg	*330 U*	*330 UJ*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
PCB-1260	-	**59.8**	11096-82-5	µg/kg	*330 U*	9.4 J	*330 U*	22 J	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	*420 U*	*440 U*
Total Metals:																												
Aluminum, Total	-	-	7429-90-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	2300	2600	1900	NA	1600	NA	NA	2000	NA	NA	1900	NA	2900	2600	2000
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	7.2	7.8	**14**	**13**	2.3	1.4	9.6	2.1	1.5	3.2	3.2	4.5	2.3	2.0	0.84	7.4	6.6	6.3	7	4.5	4.2	4.9	7.3	4.0
Barium, Total	-	-	7440-39-3	mg/kg	29	47	62	114	6.1	5.4	73	8.8	6.3	6.0	11	33	7.8	6.0	5.3	29	19	50	45	33	13	29	29	28
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.1	0.45	0.53	0.4	0.031 J	0.041 J	0.25	0.039 J	0.042 J	0.10	0.058	0.094	0.22	0.037 J	0.18	0.49	0.11	0.43	0.4	0.094	0.21	0.20	0.097	0.088
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	35	40	10	**109**	4.4	3.7	23	3.5	3.9	3.9 B	7.4 B	7.0 B	4.6	3.9 B	4.3	20	18	13	9.7	13 B	5.1	5.3 B	20	15
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	26	**34**	11	**73**	2.2	2.2	16	2.6	3.7	3.6	5.1	8.7	3.8	3.6	3.3	13	12	11	8.7	8.7	4.3	5.4	9.5 B	6.0 B
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	8.3	9.1	6.2	20	1.7	1.6	9.4	1.5	2.4	3.6	2.8	3.5	2.2	1.4	1.5	7.9	4.0	7.6	**97**	3.5	3.7	7.8	4.0	22
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.024 J	0.031 J	0.028 J	0.1	0.1 U	0.1 U	0.082 J	0.1 U	0.1 U	0.050 U	0.036 J	0.050 U	0.1 U	0.050 U	0.1 U	**0.26**	0.045 J	0.1	0.072 J	0.016 J	0.1 U	0.049 J	0.016 J	0.0083 J
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	20	19	12	**29**	5.2	4.5	12	5.4	4.8	9.3	7.4	6.4	6.9	4.9	4.6	13	13	6.7	6.9	6.4	5.8	5.2	7.9	7.0
Selenium, Total	-	-	7782-49-2	mg/kg	0.18 J	0.43	0.58	0.61	0.11 J	0.091 J	0.51	0.11 J	0.11 J	0.18	0.13	0.19	0.073 J	0.099 J	0.052 J	0.26	0.18	0.2 J	0.26 J	0.19	0.073 J	0.28	0.22	0.25
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.037 J	0.087 J	0.073 J	0.077 J	0.025 J	0.02 J	0.078 J	0.024 J	0.031 J	0.057	0.037 J	0.038 J	0.023 J	0.027 J	0.59 U	0.066 J	0.050	0.043 J	0.033 J	0.028 J	0.027 J	0.054	0.035 J	0.032 J
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	51	61	34	**139**	9.2	10	49	11	11	7.6	20	24	13	7.6	9.5	44	35 B	43	34	24	17	27	28	19
Chromium(VI)	-	-	18540-29-9	mg/kg	2 U	12 U	22 U	2 U	2 U	2 U	2 U	0.51 J	2 U	0.28 J	0.20 J	0.61 J	2.1 U	0.28 J	2 U	2 U	2.3 U	2.6 U	3 U	0.61 J	2 U	1.1 J	0.25 J	2.6 U
Miscellaneous Parameters:																												
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	NA	*0.5 U*	*0.5 U*	NA	NA	NA	NA	NA	NA	NA	NA	NA	*0.5 U*	NA	*0.5 U*	*0.5 U*	**1.8**	*0.5 U*	*0.5 U*	NA	*0.5 U*	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	**0.16 J**	0.08 J	0.02 J	**0.18 J**	*0.2 U*	*0.2 U*	**0.74**	*0.2 U*	*0.2 U*	*0.14 U*	*0.12 U*	*0.14 U*	*0.2 U*	*0.11 U*	*0.2 U*	0.04 J	**1.4**	0.02 U	0.013 J	*0.14 U*	*0.2 U*	*0.13 U*	*0.13 U*	*0.13 U*

N. ..ndicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for removal (A-H, LD-M)

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-LD2	SD-LD3	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N1	SD-N1	SD-N2*	SD-N2*	SD-N2*	SD-N3	SD-N3*	SD-O1	SD-O1*	SD-O2	SD-O3*	SD-P1	SD-P1*	SD-P2*	SD-P2*	SD-P3
				Field ID:	LD-09-SD-2B 0911425-20	LD-09-SD-3A 0911425-21	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	O-09-SD-1A 0911425-06	O-09-SD-1B 0911425-07	O-09-SD-2A 0911425-08	O-09-SD-3A 0911425-10	P-09-SD-1A 0911425-01	P-09-SD-1B 0911425-02	P-09-SD-2A 0911425-03	P-09-SD-2B 0911425-04	P-09-SD-3A 0911425-05
				Date Sampled:	40136	40136	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40135	40135	40135	40135	40136
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2009	2009	2003	2003	2003	2003	2003	2003	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	13 - 26	0 - 27	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 13	13 - 26	0 - 12	12 - 24	12 - 24	0 - 15	15 - 30	0 - 12	12 - 24	0 - 15	0 - 14	0 - 24	24 - 48	0 - 18	0 - 36	0 - 10
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1,1-Trichloroethane	-	213	71-55-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1,2,2-Tetrachloroethane	-	850	79-34-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1,2-Trichloroethane	-	518	79-00-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1-Dichloroethane	-	0.575	75-34-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1-Dichloroethene	-	19.4	75-35-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	58 U	73 U	300 U	300 U	350 U	300 U	410 U	360 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	290 U	360 U	60 U	60 U	71 U	60 U	82 U	73 U	320 U	370 U	300 U	360 U	350 U	350 U	330 U	300 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,2-Dichloroethane	-	260	107-06-2	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	120 U	150 U	NA	NA	NA	NA	NA	NA	130 U	150 U	120 U	140 U	140 U	140 U	130 U	120 U	130 U	130 U	140 U	120 U	130 U	160 U	120 U	230 U
1,2-Dichloropropane	-	333	78-87-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
2,2-Dichloropropane	-	-	594-20-7	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
2-Hexanone	-	58.2	591-78-6	µg/kg	2900 U	3600 U	600 U	600 U	710 U	600 U	820 U	730 U	3200 U	3700 U	3000 U	3600 U	3500 U	3500 U	3300 U	3000 U	3200 U	3300 U	3500 U	3000 U	3200 U	4000 U	3100 U	5800 U
4-Chlorotoluene	-	-	106-43-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
4-[illegible]opyltoluene	-	-	99-87-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
[illegible]-2-pentanone	-	25.1	108-10-1	µg/kg	2900 U	3600 U	600 U	600 U	710 U	600 U	820 U	730 U	3200 U	3700 U	3000 U	3600 U	3500 U	3500 U	3300 U	3000 U	3200 U	3300 U	3500 U	3000 U	3200 U	4000 U	3100 U	5800 U
Ac[illegible]	-	9.9	67-64-1	µg/kg	320 J	320 J	600 U	600 U	710 U	600 U	820 U	730 U	270 J	310 J	240 J	340 J	320 J	290 J	300 J	240 J	330 J	310 J	230 J	320 J	300 J	340 J	290 J	550 J
Acrolein	-	0.00152	107-02-8	µg/kg	290 U	360 U	NA	NA	NA	NA	NA	NA	320 U	370 U	300 U	360 U	350 U	350 U	330 U	300 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
Benzene	-	142	71-43-2	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Bromobenzene	-	-	108-86-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Bromochloromethane	-	-	74-97-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Bromoform	-	492	75-25-2	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Bromomethane	-	-	74-83-9	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	69 J	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Carbon disulfide	-	23.9	75-15-0	µg/kg	290 U	360 U	600 U	600 U	710 U	600 U	820 U	730 U	320 U	370 U	300 U	360 U	350 U	350 U	330 U	300 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
Carbon tetrachloride	-	1450	56-23-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Chlorobenzene	-	291	108-90-7	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Chloroethane	-	-	75-00-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Chloroform	-	121	67-66-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Chloromethane	-	-	74-87-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Dibromochloromethane	-	-	124-48-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Dibromomethane	-	-	74-95-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	NA	NA	60 U	60 U	71 U	60 U	82 U	73 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Ethylbenzene	-	175	100-41-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Ethylene dibromide	-	-	106-93-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	58 U	73 U	600 U	600 U	710 U	600 U	820 U	730 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
Isopropylbenzene	-	-	98-82-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Methyl ethyl ketone	-	42.4	78-93-3	µg/kg	2900 U	3600 U	600 U	600 U	710 U	600 U	820 U	730 U	3200 U	3700 U	3000 U	3600 U	3500 U	3500 U	3300 U	3000 U	3200 U	3300 U	3500 U	3000 U	3200 U	4000 U	3100 U	5800 U
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	58 U	73 U	600 U	600 U	710 U	600 U	820 U	730 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Methylene chloride	-	159	75-09-2	µg/kg	42 J	110 J	510	380	530	430	580	470	28 J	34 J	34 J	42 J	45 J	54 J	45 J	27 J	26 J	31 J	33 J	31 J	26 J	48 J	30 J	49 J
n-Butylbenzene	-	-	104-51-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
n-Propylbenzene	-	-	103-65-1	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Naphthalene	-	176	91-20-3	µg/kg	3.3 J	24 U	150 U	150 U	180 U	150 U	200 U	180 U	320 U	370 U	20 U	360 U	350 U	200 J	330 U	20 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
o-Xylene	-	-	95-47-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Styrene	-	254	100-42-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Tetrachloroethene	-	990	127-18-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Toluene	-	1220	108-88-3	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
trans-1,2-Dichloroethylene	-	654	156-60-5	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
[illegible]-Dichloropropene	-	-	10061-02-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
[illegible]oethene	-	112	79-01-6	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Vinyl chloride	-	202	75-01-4	µg/kg	58 U	73 U	60 U	60 U	71 U	60 U	82 U	73 U	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	120 U	150 U	120 U	120 U	140 U	120 U	160 U	150 U	130 U	150 U	120 U	140 U	140 U	140 U	130 U	120 U	130 U	130 U	140 U	120 U	130 U	160 U	120 U	230 U

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL		Location	SD-LD2	SD-LD3	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N1	SD-N1	SD-N2*	SD-N2*	SD-N2*	SD-N3	SD-N3*	SD-O1	SD-O1*	SD-O2	SD-O3*	SD-P1	SD-P1*	SD-P2*	SD-P2*	SD-P3
				Field ID:	LD-09-SD-2B 0911425-20	LD-09-SD-3A 0911425-21	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	O-09-SD-1A 0911425-06	O-09-SD-1B 0911425-07	O-09-SD-2A 0911425-08	O-09-SD-3A 0911425-10	P-09-SD-1A 0911425-01	P-09-SD-1B 0911425-02	P-09-SD-2A 0911425-03	P-09-SD-2B 0911425-04	P-09-SD-3A 0911425-05
				Date Sampled:	40136	40136	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40135	40135	40135	40135	40136
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2009	2009	2003	2003	2003	2003	2003	2003	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
				Depth (inches):	13 - 26	0 - 27	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 13	13 - 26	0 - 12	12 - 24	12 - 24	0 - 15	15 - 30	0 - 12	12 - 24	0 - 15	0 - 14	0 - 24	24 - 48	0 - 18	0 - 36	0 - 10
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	-	5062	120-82-1	µg/kg	58 U	73 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	100	150	NA	NA	NA	NA	NA	NA	240	37	25	19 J	23 U	830	8.3 J	130	19 J	780	120	180	21 U	54	21 U	11 J
1,2-Dichlorobenzene	-	294	95-50-1	µg/kg	58 U	73 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,3-Dichlorobenzene	-	1315	541-73-1	µg/kg	58 U	73 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
1,4-Dichlorobenzene	-	318	106-46-7	µg/kg	58 U	73 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2,4,6-Trichlorophenol	-	208	88-06-2	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2,4-Dichlorophenol	-	81.7	120-83-2	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2,4-Dimethylphenol	-	304	105-67-9	µg/kg	420 U	480 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	420 U	520 U	390 U	480 U	470 U	2300 U	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
2,4-Dinitrophenol	-	6.21	51-28-5	µg/kg	420 U	480 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	420 U	520 U	390 U	480 U	470 U	2300 U	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
2,4-Dinitrotoluene	-	14.4	121-14-2	µg/kg	42 U	48 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	42 U	52 U	39 U	48 U	47 U	230 U	44 U	40 U	42 U	470 U	52 U	40 U	42 U	53 U	41 U	77 U
2,6-Dinitrotoluene	-	39.8	606-20-2	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2-Chloronaphthalene	-	417	91-58-7	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2-Chlorophenol	-	31.9	95-57-8	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2-Methylnaphthalene	-	20.2	91-57-6	µg/kg	1.7 J	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	1.3 J	26 U	1.2 J	24 U	23 U	6.9 J	22 U	20 U	21 U	19 J	3.0 J	2.0 J	21 U	26 U	21 U	39 U
2-Methylphenol	-	-	95-48-7	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2-Nitroaniline	-	-	88-74-4	µg/kg	21 U	24 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
2-Nitrophenol	-	-	88-75-5	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
3,3-Dichlorobenzidine	-	127	91-94-1	µg/kg	210 U	240 U	2000 UJ	2000 UJ	2000 UJ	2000 UJ	2000 UJ	2000 UJ	210 U	260 U	200 U	240 U	230 U	1200 U	220 U	200 U	210 U	2400 U	260 U	200 U	210 U	260 U	210 U	390 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	21 U	24 U	NA	NA	NA	NA	NA	NA	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
3-Nitroaniline	-	-	99-09-2	µg/kg	42 U	48 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	42 U	52 U	39 U	48 U	47 U	230 U	44 U	40 U	42 U	470 U	52 U	40 U	42 U	53 U	41 U	77 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	84 U	97 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	85 U	100 U	79 U	96 U	93 U	470 U	88 U	80 U	84 U	940 U	100 U	80 U	85 U	110 U	82 U	150 U
4-Bromophenyl-phenylether	-	1550	101-55-3	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
4-Chloroaniline	-	146	106-47-8	µg/kg	42 U	48 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	42 U	52 U	39 U	48 U	47 U	230 U	44 U	40 U	42 U	470 U	52 U	40 U	42 U	53 U	41 U	77 U
4-C[illegible]rophenyl-phenylether	-	-	7005-72-3	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
[illegible] phenol	-	-	106-44-5	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
4-[illegible]aniline	-	-	100-01-6	µg/kg	84 U	97 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	85 U	100 U	79 U	96 U	93 U	470 U	88 U	80 U	84 U	940 U	100 U	80 U	85 U	110 U	82 U	150 U
4-Nitrophenol	-	13.3	100-02-7	µg/kg	420 U	480 U	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	420 U	520 U	390 U	480 U	470 U	2300 U	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
Acenaphthene	-	6.71	83-32-9	µg/kg	14 J	9.7 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	20 J	2.6 J	2.0 J	1.9 J	23 U	93 J	22 U	9.6 J	1.7 J	160 J	2.0 J	11 J	21 U	3.7 J	21 U	39 U
Acenaphthylene	-	5.87	208-96-8	µg/kg	15 J	13 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	4.2 J	26 U	20 U	24 U	23 U	21 J	22 U	9.2 J	21 U	240 U	26 U	11 J	21 U	26 U	21 U	39 U
Anthracene	-	57.2	120-12-7	µg/kg	NA	NA	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	-	108	56-55-3	µg/kg	250	270	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330	58	36	38	3.8 J	1000	11 J	190	22	770	200	370	2.2 J	67	2.5 J	8.5 J
Benzidine	-	-	92-87-5	µg/kg	840 U	970 U	5000 UJ	5000 UJ	5000 UJ	5000 UJ	5000 UJ	5000 UJ	850 U	1000 U	790 U	960 U	930 U	4700 U	880 U	800 U	840 U	9400 U	1000 U	800 U	850 U	1100 U	820 U	1500 U
Benzo(a)pyrene	-	150	50-32-8	µg/kg	140	140	330 UJ	330 UJ	42 J	330 UJ	55 J	330 UJ	190	38	23	20 J	5.2 J	710	7.4 J	140	16 J	630	110	150	21 U	46	21 U	9.3 J
Benzo(b)fluoranthene	-	10400	205-99-2	µg/kg	210	270	330 UJ	330 UJ	330 UJ	330 UJ	80 J	330 UJ	310	68	43	45	7.6 J	1300	14 J	210	15 J	860	180	320	21 U	67	21 U	9.3 J
Benzo(g,h,i)perylene	-	170	191-24-2	µg/kg	63	43 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	86	13 J	21 J	15 J	47 U	410	3.5 J	59	8.1 J	370 J	59	74	42 U	19 J	41 U	3.1 J
Benzo(k)fluoranthene	-	240	207-08-9	µg/kg	68	81	330 UJ	330 UJ	36 J	330 UJ	62 J	330 UJ	150	17 J	12 J	12 J	2.4 J	480	4.8 J	94	6.4 J	360	94	84	21 U	38	21 U	12 J
Benzoic acid	-	-	65-85-0	µg/kg	420 U	480 U	3300 UJ	3300 UJ	3300 UJ	3300 UJ	3300 UJ	3300 UJ	420 U	520 U	390 U	480 U	470 U	2300 U	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
Benzyl alcohol	-	1.04	100-51-6	µg/kg	40	95	1300 UJ	1300 UJ	1300 UJ	1300 UJ	1300 UJ	1300 UJ	21 U	26 U	35	85	57	120 U	67	20 U	21 U	240 U	26 U	59	160	26 U	78	39 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
bis(2-Chloroethyl)ether	-	3520	111-44-4	µg/kg	21 U	24 U	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg			330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	-	182	117-81-7	µg/kg	15 J	34 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	800	280	54	11 J	29 J	69 J	44 U	9.6 J	7.2 J	470 U	100	99	58	56	53	13 J
Butyl benzyl phthalate	-	1970	85-68-7	µg/kg	42 U	48 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	32 J	32 J	12 J	11 J	47 U	230 U	44 U	40 U	42 U	470 U	34 J	40 U	42 U	53 U	41 U	14 J
Carbazole	-	-	86-74-8	µg/kg	420 U	480 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	420 U	520 U	390 U	480 U	470 U	2300 U	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
Chrysene	-	166	218-01-9	µg/kg	100	150	330 UJ	330 UJ	330 UJ	330 UJ	57 J	330 UJ	240	37	25	19 J	23 U	830	8.3 J	130	19 J	780	120	180	21 U	54	21 U	11 J
Di-N-Butyl phthalate	-	1114	84-74-2	µg/kg	110 J	150 J	440 J	370 J	380 J	420 J	260 J	310 J	86 J	270	360	360	230 U	340 J	220 U	170 J	210 U	2400 U	180 J	200 U	210 U	260 U	210 U	310 J
Di-N-Octyl phthalate	-	40600	117-84-0	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Dibenz(a,h)anthracene	-	33	53-70-3	µg/kg	42 U	48 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	23 J	52 U	39 U	48 U	47 U	100 J	44 U	21 J	42 U	470 U	21 J	21 J	42 U	53 U	41 U	77 U
Dibenzofuran	-	449	132-64-9	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Diethylphthalate	-	295	84-66-2	µg/kg	5.4 J	5.4 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	4.7 J	24 U	5.2 J	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Dimethyl phthalate	-	-	131-11-3	µg/kg	21 U	24 U	3300 UJ	3300 UJ	3300 UJ	3300 UJ	3300 UJ	3300 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Fluoranthene	-	423	206-44-0	µg/kg	440	620	330 UJ	330 UJ	85 J	330 UJ	130 J	330 UJ	560	100	67	68	11 J	2800	29	340	25	2500	260	350	1.3 J	140	2.1 J	17 J
Fluorene	-	77.4	86-73-7	µg/kg	16 J	14 J	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	23	26 U	20 U	24 U	23 U	150	22 U	18 J	21 U	190 J	26 U	31	21 U	26 U	21 U	39 U
Hexachlorobenzene	-	20	118-74-1	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Hexachlorobutadiene	-	26.5	87-68-3	µg/kg	58 U	73 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	64 U	73 U	59 U	72 U	70 U	70 U	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	39 U
Hexachlorocyclopentadiene	-	901	77-47-4	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Hexachloroethane	-	584	67-72-1	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Indeno(1,2,3-cd)pyrene	-	200	193-39-5	µg/kg	46	63	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	73	7.4 J	25 J	11 J	47 U	450	44 U	46	8.9 J	410 J	43 J	70	42 U	20 J	41 U	77 U
Isophorone	-	432	78-59-1	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
[illegible]dene	-	176	91-20-3	µg/kg	3.3 J	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	320 U	370 U	20 U	360 U	350 U	200 J	330 U	20 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
[illegible]nzene	-	145	98-95-3	µg/kg	21 U	24 U	200 UJ	200 UJ	200 UJ	200 UJ	200 UJ	200 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
p-Chloro-m-cresol	-	388	59-50-7	µg/kg	21 U	24 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	21 U	26 U	20 U	24 U	23 U	120 U	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Pentachlorophenol	-	23000	87-86-5	µg/kg	210 U	240 U	800 UJ	800 UJ	800 UJ	800 UJ	800 UJ	800 UJ	210 U	260 U	200 U	240 U	230 U	1200 U	220 U	200 U	210 U	2400 U	260 U	200 U	210 U	260 U	210 U	390 U
Phenanthrene	-	204	85-01-8	µg/kg	180	190	330 UJ	330 UJ	30 J	330 UJ	47 J	330 UJ	230	32	30	36	3.3 J	1500	12 J	180	17 J	2000	68	330	21 U	61	21 U	5.4 J
Phenol	-	49.1	108-95-2	µg/kg	210 U	240 U	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	330 UJ	210 U	260 U	200 U	240 U	230 U	1200 U	220 U	200 U	210 U	2400 U	260 U	200 U	210 U	260 U	210 U	390 U
PNAs, Total	-	-	TPNA	µg/kg	NA	NA	NA	NA	253	NA	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	195	129-00-0	µg/kg	320	420	330 UJ	330 UJ	60 J	330 UJ	99 J	330 UJ	640	95	58	59	11 J	2300	20 J	350	42	2000	280	600	1.7 J	120	3.3 J	16 J

TABLE 2
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	SD-LD2	SD-LD3	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N1	SD-N1	SD-N2*	SD-N2*	SD-N2*	SD-N3	SD-N3*	SD-O1	SD-O1*	SD-O2	SD-O3*	SD-P1	SD-P1*	SD-P2*	SD-P2*	SD-P3
				Field ID:	LD-09-SD-2B 0911425-20	LD-09-SD-3A 0911425-21	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	O-09-SD-1A 0911425-06	O-09-SD-1B 0911425-07	O-09-SD-2A 0911425-08	O-09-SD-3A 0911425-10	P-09-SD-1A 0911425-01	P-09-SD-1B 0911425-02	P-09-SD-2A 0911425-03	P-09-SD-2B 0911425-04	P-09-SD-3A 0911425-05
				Date Sampled:	40136	40136	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40136	40135	40135	40135	40135	40136
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2009	2009	2003	2003	2003	2003	2003	2003	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	Remedial Objectives	R5 RCRA Sediment ESL		Depth (inches):	13 - 26	0 - 27	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 13	13 - 26	0 - 12	12 - 24	12 - 24	0 - 15	15 - 30	0 - 12	12 - 24	0 - 15	0 - 14	0 - 24	24 - 48	0 - 18	0 - 36	0 - 10
Polychlorinated Biphenyls (PCBs):																												
PCB, Total	-	**59.8**	TPCB	µg/kg	NA	NA	NA	NA	**66 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	420 U	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1221	-	**59.8**	11104-28-2	µg/kg	420 U	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1232	-	**59.8**	11141-16-5	µg/kg	420 U	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1242	-	**59.8**	53469-21-9	µg/kg	420 U	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1248	-	**59.8**	12672-29-6	µg/kg	55 J	28 J	330 U	330 U	**66 J**	330 U	330 U	330 U	54 J	520 U	8.5 J	470 U	460 U	37 J	430 U	400 U	420 U	12 J	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1254	-	**59.8**	11097-69-1	µg/kg	420 U	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1260	-	**59.8**	11096-82-5	µg/kg	34 J	480 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	520 U	390 U	470 U	460 U	460 U	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
Total Metals:																												
Aluminum, Total	-	-	7429-90-5	mg/kg	2100	2000	NA	NA	NA	NA	NA	NA	2000	2100	2100	2100	1600	2200	2000	2100	1900	2500	4400	1600	1800	3200	6300	3400
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	7.4	5.3	**44**	2.6	7.3	8.1	7.1	**11**	4.0	3.9	5.4	5.3	6.8	6.3	7.4	4.2	3.4	4.6	6.6	3.9	4.4	**11**	**11**	**170**
Barium, Total	-	-	7440-39-3	mg/kg	18	30	31	6.8	30	13	18	17	17	16	12	18	18	23	13	13	17	27	37	14	17	25	51	38
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.083	0.076	0.5	0.22	0.21	0.27	0.3	0.3	0.10	0.090	0.067	0.060	0.059	0.13	0.044 J	0.073	0.063	0.086	0.14	0.053	0.059	0.086	0.16	0.13
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	32	13	17	4.2	15	13	8.8	5.3	21	4.9	23	4.9	7.6	15	4.3	8.5	6.2	8.8	14	3.9	3.6	7.0	12	8.0
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	7.0 B	8.0	12	5.4	9.7	8	6.7	4.9	15 B	3.3 B	11 B	3.3 B	7.1	11 B	3.2 B	3.4 B	3.7 B	5.7 B	9.8 B	2.3 B	2.6 B	5.9 B	10 B	5.0 B
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	**330**	11	5.9	5.6	5	2.7	4.9	2.9	7.8	3.2	11	2.4	4.2	7.9	1.8	**48**	4.5	9.7	6.6	7.9	1.8	22	6.3	4.3
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.015 J	0.050 U	0.016 J	0.1 U	0.1 U	0.01 J	0.1 U	0.1 U	0.0084 J	0.047	0.0084 J	0.050 U	0.050 U	0.014 J	0.047 U	0.014 J	0.046 U	0.050 U	0.050 U	0.046 U	0.050 U	0.050 U	0.046 U	0.046 U
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	7.0	7.4	14	5.9	8.9	9.7	8.7	6	9.9	4.9	10	5.6	9.0	8.5	4.8	6.1	5.6	6.0	10	3.9	3.7	6.6	13	7.1
Selenium, Total	-	-	7782-49-2	mg/kg	0.14	0.19	0.23 J	0.13 J	0.2 J	0.16 J	0.34	0.15 J	0.11	0.093 U	0.093 J	0.13	0.22	0.058 J	0.086 J	0.11	0.093 J	0.14	0.12	0.070 J	0.10	0.10 U	0.19	0.26
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.036 J	0.039 J	0.06 J	0.021 J	0.66 U	0.02 J	0.029 J	0.039 J	0.028 J	0.022 J	0.021 J	0.020 J	0.046	0.031 J	0.027 J	0.032 J	0.027 J	0.033 J	0.056	0.042 J	0.043 J	0.049 J	0.086	0.060
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	29	35 B	37	14	33	22	27	17	39	16	25	13	15 B	30	10	15	15	20	27	12	11	18	33	23
Chromium(VI)	-	-	18540-29-9	mg/kg	0.27 J	0.66 J	2.1 U	2 U	2 U	2.4 U	1.3 J	2.1 U	0.35 J	0.35 J	2.2 U	0.50 J	0.38 J	2.4 U	0.30 J	0.25 J	2.5 U	0.36 J	3.1 U	2.2 U	2.6 U	3.2 U	2.5 U	0.53 J
Miscellaneous Parameters:																												
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	0.13 U	0.15 U	0.2 U	0.2 U	0.02 J	0.2 U	0.012 J	0.2 U	0.13 U	0.16 U	0.12 U	0.14 U	0.14 U	0.14 U	0.13 U	0.12 U	0.13 U	0.14 U	0.16 U	0.12 U	0.13 U	0.16 U	0.12 U	0.23 U

NA - Indicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for removal (A-H, LD-M)

TABLE 3:

IN-CHANNEL SWAC ANALYSIS SUMMARY

TA[illegible] E 3
IN-CHANNEL SWA[illegible]ALYSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

IN-CHANNEL SWAC ANALYSIS SUMMARY					IN-CHANNEL - Reach covering transects A through M			IN-CHANNEL - Reach covering transects N through P			IN-CHANNEL - Reach covering transects A through P		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	630-20-6	µg/kg			5.07	NA	NA	6.45	NA	NA	5.49	NA	NA
1,1,1-Trichloroethane	71-55-6	µg/kg		213	9.10	NA	No	11.37	NA	No	9.78	NA	No
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		850	8.09	NA	No	10.25	NA	No	8.74	NA	No
1,1,2-Trichloroethane	79-00-5	µg/kg		518	14.22	NA	No	18.25	NA	No	15.43	NA	No
1,1-Dichloroethane	75-34-3	µg/kg		0.575	13.52	NA	Yes	8.79	NA	Yes	12.10	NA	Yes
1,1-Dichloroethene	75-35-4	µg/kg		19.4	8.14	NA	No	10.44	NA	No	8.83	NA	No
1,1-Dichloropropene	563-58-6	µg/kg			9.16	NA	NA	11.90	NA	NA	9.98	NA	NA
1,2,3-Trichlorobenzene	87-61-6	µg/kg			6.06	NA	NA	7.48	NA	NA	6.49	NA	NA
1,2,3-Trichloropropane	96-18-4	µg/kg			12.21	NA	NA	15.74	NA	NA	13.27	NA	NA
1,2,4-Trichlorobenzene	120-82-1	µg/kg		5062	1.39	NA	No	6.71	NA	No	2.98	NA	No
1,2,4-Trimethylbenzene	95-63-6	µg/kg			11.90	NA	NA	10.44	NA	NA	11.46	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	µg/kg			10.12	NA	NA	12.59	NA	NA	10.86	NA	NA
1,2-Dichlorobenzene	95-50-1	µg/kg		294	4.97	NA	No	8.41	NA	No	6.00	NA	No
1,2-Dichloroethane	107-06-2	µg/kg		260	4.93	NA	No	6.25	NA	No	5.32	NA	No
1,2-Dichloroethene (Total)	540-59-0	µg/kg			1.67	NA	NA	19.75	NA	NA	7.09	NA	NA
1,2-Dichloropropane	78-87-5	µg/kg		333	6.10	NA	No	7.81	NA	No	6.61	NA	No
1,3,5-Trimethylbenzene	108-67-8	µg/kg			8.19	NA	NA	9.25	NA	NA	8.51	NA	NA
1,3-Dichlorobenzene	541-73-1	µg/kg		1315	4.30	NA	No	9.68	NA	No	5.91	NA	No
1,3-Dichloropropane	142-28-9	µg/kg			4.61	NA	NA	5.89	NA	NA	4.99	NA	NA
1,4-Dichlorobenzene	106-46-7	µg/kg		318	2.48	NA	No	9.68	NA	No	4.64	NA	No
2,2-Dichloropropane	594-20-7	µg/kg			8.11	NA	NA	10.31	NA	NA	8.77	NA	NA
2-Chlorotoluene	95-49-8	µg/kg			7.64	NA	NA	9.78	NA	NA	8.28	NA	NA
2-Hexanone	591-78-6	µg/kg		58.2	15.19	NA	No	19.08	NA	No	16.35	NA	No
4-Chlorotoluene	106-43-4	µg/kg			8.12	NA	NA	10.31	NA	NA	8.78	NA	NA
4-Isopropyltoluene	99-87-6	µg/kg			8.59	NA	NA	10.78	NA	NA	9.25	NA	NA
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/kg		25.1	13.69	NA	No	17.26	NA	No	14.76	NA	No
Acetone	67-64-1	µg/kg		9.9	358.16	NA	Yes	326.29	NA	Yes	348.61	NA	Yes
Acrolein	107-02-8	µg/kg		0.00152	2.99	NA	Yes *U	35.42	NA	Yes *U	12.71	NA	Yes *U
Benzene	71-43-2	µg/kg		142	9.50	NA	No	10.34	NA	No	9.75	NA	No
Bromobenzene	108-86-1	µg/kg			6.56	NA	NA	8.14	NA	NA	7.04	NA	NA
Bromochloromethane	74-97-5	µg/kg			6.12	NA	NA	7.98	NA	NA	6.68	NA	NA
Bromoform	75-25-2	µg/kg		492	14.22	NA	No	18.25	NA	No	15.43	NA	No
Bromomethane	74-83-9	µg/kg			19.58	NA	NA	22.33	NA	NA	20.40	NA	NA
Carbon Disulfide	75-15-0	µg/kg		23.9	24.39	NA	Yes	10.31	NA	No	20.17	NA	No
Carbon Tetrachloride	56-23-5	µg/kg		1450	6.12	NA	No	7.98	NA	No	6.68	NA	No
Chlorobenzene	108-90-7	µg/kg		291	7.29	NA	No	8.14	NA	No	7.54	NA	No
Chloroethane	75-00-3	µg/kg			12.71	NA	NA	16.30	NA	NA	13.79	NA	NA
Chloroform	67-66-3	µg/kg		121	8.56	NA	No	8.26	NA	No	8.47	NA	No
Chloromethane	74-87-3	µg/kg			10.00	NA	NA	10.84	NA	NA	10.25	NA	NA
cis-1,2-Dichloroethene	156-59-2	µg/kg			88.75	NA	NA	7.76	NA	NA	64.48	NA	NA
cis-1,3-Dichloropropene	10061-01-5	µg/kg			5.10	NA	NA	6.64	NA	NA	5.56	NA	NA
Dibromochloromethane	124-48-1	µg/kg			14.22	NA	NA	18.25	NA	NA	15.43	NA	NA
Dibromomethane	74-95-3	µg/kg			6.07	NA	NA	7.61	NA	NA	6.53	NA	NA
Dichlorobromomethane	75-27-4	µg/kg			43.38	NA	NA	0.00	NA	NA	30.38	NA	NA
Dichlorodifluoromethane	75-71-8	µg/kg			5.56	NA	NA	6.88	NA	NA	5.96	NA	NA

TABLE 3
IN-CHANNEL SWAC ANALYSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

IN-CHANNEL SWAC ANALYSIS SUMMARY					IN-CHANNEL - Reach covering transects A through M			IN-CHANNEL - Reach covering transects N through P			IN-CHANNEL - Reach covering transects A through P		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
Ethylbenzene	100-41-4	µg/kg		175	8.94	NA	No	10.87	NA	No	9.52	NA	No
Ethylene dibromide	106-93-4	µg/kg			5.10	NA	NA	6.67	NA	NA	5.57	NA	NA
Hexachlorobutadiene	87-68-3	µg/kg		26.5	1.48	NA	No	6.44	NA	No	2.97	NA	No
Isopropylbenzene	98-82-8	µg/kg			8.09	NA	NA	10.06	NA	NA	8.68	NA	NA
2-Butanone (MEK)	78-93-3	µg/kg		42.4	361.62	NA	Yes	18.25	NA	No	258.72	NA	Yes
Methyl tert-Butyl Ether	1634-04-4	µg/kg			3.96	NA	NA	5.03	NA	NA	4.28	NA	NA
Methylene Chloride	75-09-2	µg/kg		159	129.29	NA	No	40.53	NA	No	102.69	NA	No
n-Butylbenzene	104-51-8	µg/kg			8.18	NA	NA	10.01	NA	NA	8.73	NA	NA
n-Propylbenzene	103-65-1	µg/kg			9.35	NA	NA	11.37	NA	NA	9.96	NA	NA
Naphthalene	91-20-3	µg/kg		176	13.21	NA	No	50.40	NA	No	24.35	NA	No
Xylene, Ortho	95-47-6	µg/kg			9.05	NA	NA	10.01	NA	NA	9.34	NA	NA
sec-Butylbenzene	135-98-8	µg/kg			9.30	NA	NA	11.25	NA	NA	9.89	NA	NA
Styrene	100-42-5	µg/kg		254	5.56	NA	No	6.78	NA	No	5.92	NA	No
tert-Butylbenzene	98-06-6	µg/kg			8.15	NA	NA	10.54	NA	NA	8.86	NA	NA
Tetrachloroethene	127-18-4	µg/kg		990	11.28	NA	No	14.02	NA	No	12.10	NA	No
Toluene	108-88-3	µg/kg		1220	17.73	NA	No	10.54	NA	No	15.57	NA	No
trans-1,2-Dichloroethene	156-60-5	µg/kg		654	17.11	NA	No	12.00	NA	No	15.58	NA	No
trans-1,3-Dichloropropene	10061-02-6	µg/kg			4.01	NA	NA	5.05	NA	NA	4.32	NA	NA
Trichloroethene	79-01-6	µg/kg		112	22.00	NA	No	12.68	NA	No	19.20	NA	No
Trichlorofluoromethane	75-69-4	µg/kg			8.66	NA	NA	11.30	NA	NA	9.45	NA	NA
Vinyl Chloride	75-01-4	µg/kg		202	7.09	NA	No	8.79	NA	No	7.60	NA	No
Xylene, Meta + Para	Not Applicable	µg/kg			18.73	NA	NA	20.93	NA	NA	19.39	NA	NA
SVOCS													
1,2,4-Trichlorobenzene	120-82-1	µg/kg		5062	2.24	NA	No	6.71	NA	No	3.58	NA	No
1,2-Benzphenanthracene	218-01-9	µg/kg			6.18	NA	NA	300.56	NA	NA	94.39	NA	NA
1,2-Dichlorobenzene	95-50-1	µg/kg		294	2.76	NA	No	8.41	NA	No	4.45	NA	No
1,3-Dichlorobenzene	541-73-1	µg/kg		1315	2.75	NA	No	9.68	NA	No	4.82	NA	No
1,4-Dichlorobenzene	106-46-7	µg/kg		318	3.80	NA	No	9.68	NA	No	5.56	NA	No
2,4,5-Trichlorophenol	95-95-4	µg/kg			1.42	NA	NA	4.24	NA	NA	2.27	NA	NA
2,4,6-Trichlorophenol	88-06-2	µg/kg		208	1.17	NA	No	3.50	NA	No	1.87	NA	No
2,4-Dichlorophenol	120-83-2	µg/kg		81.7	1.94	NA	No	5.88	NA	No	3.12	NA	No
2,4-Dimethylphenol	105-67-9	µg/kg		304	1.07	NA	No	2.53	NA	No	1.50	NA	No
2,4-Dinitrophenol	51-28-5	µg/kg		6.21	60.96	NA	Yes *U	180.79	NA	Yes *U	96.87	NA	Yes *U
2,4-Dinitrotoluene	121-14-2	µg/kg		14.4	10.70	NA	No	32.46	NA	Yes *U	17.22	NA	Yes *U
2,6-Dinitrotoluene	606-20-2	µg/kg		39.8	1.32	NA	No	3.94	NA	No	2.11	NA	No
2-Chloronaphthalene	91-58-7	µg/kg		417	1.22	NA	No	3.74	NA	No	1.98	NA	No
2-Chlorophenol	95-57-8	µg/kg		31.9	2.14	NA	No	6.47	NA	No	3.44	NA	No
2-Methylnaphthalene	91-57-6	µg/kg		20.2	9.97	NA	No	3.56	NA	No	8.05	NA	No
2-Methylphenol	95-48-7	µg/kg			2.93	NA	NA	8.19	NA	NA	4.51	NA	NA
2-Nitroaniline	88-74-4	µg/kg			4.07	NA	NA	12.24	NA	NA	6.52	NA	NA
2-Nitrophenol	88-75-5	µg/kg			3.77	NA	NA	11.33	NA	NA	6.04	NA	NA
3,3'-Dichlorobenzidine	91-94-1	µg/kg		127	15.81	NA	No	47.53	NA	No	25.32	NA	No
3+4-Methylphenol	108-39-4	µg/kg			0.28	NA	NA	5.71	NA	NA	1.91	NA	NA
3-Nitroaniline	99-09-2	µg/kg			4.07	NA	NA	12.14	NA	NA	6.49	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg			11.70	NA	NA	35.04	NA	NA	18.70	NA	NA

TA" E 3
IN-CHANNEL SWA ALYSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

IN-CHANNEL SWAC ANALYSIS SUMMARY					IN-CHANNEL - Reach covering transects A through M			IN-CHANNEL - Reach covering transects N through P			IN-CHANNEL - Reach covering transects A through P		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
4-Bromophenyl Phenyl Ether	101-55-3	µg/kg		1550	0.86	NA	No	2.53	NA	No	1.36	NA	No
4-Chloroaniline	106-47-8	µg/kg		146	4.07	NA	No	12.14	NA	No	6.49	NA	No
4-Chlorophenyl Phenyl Ether	7005-72-3	µg/kg			1.93	NA	NA	5.74	NA	NA	3.07	NA	NA
4-Methylphenol	106-44-5	µg/kg			3.08	NA	NA	7.66	NA	NA	4.45	NA	NA
4-Nitroaniline	100-01-6	µg/kg			0.92	NA	NA	2.76	NA	NA	1.47	NA	NA
4-Nitrophenol	100-02-7	µg/kg		13.3	76.45	NA	Yes *U	230.91	NA	Yes *U	122.74	NA	Yes *U
Acenaphthene	83-32-9	µg/kg		6.71	6.42	NA	No	35.14	NA	Yes	15.02	NA	Yes
Acenaphthylene	208-96-8	µg/kg		5.87	2.28	NA	No	7.91	NA	Yes	3.97	NA	No
Anthracene	120-12-7	µg/kg		57.2	53.69	NA	No	0.00	NA	No	37.60	NA	No
Benzo(a)anthracene	56-55-3	µg/kg		108	77.38	NA	No	377.13	NA	Yes	167.20	NA	Yes
Benzidine	92-87-5	µg/kg			96.48	NA	NA	289.17	NA	NA	154.22	NA	NA
Benzo(a)pyrene	50-32-8	µg/kg		150	68.31	NA	No	255.70	NA	Yes	124.47	NA	No
Benzo(b)fluoranthene	205-99-2	µg/kg		10400	72.16	NA	No	437.30	NA	No	181.58	NA	No
Benzo(g,h,i)perylene	191-24-2	µg/kg		170	33.07	NA	No	141.52	NA	No	65.57	NA	No
Benzo(k)fluoranthene	207-08-9	µg/kg		240	43.88	NA	No	172.24	NA	No	82.35	NA	No
Benzoic Acid	65-85-0	µg/kg			99.10	NA	NA	220.87	NA	NA	135.59	NA	NA
Benzyl Alcohol	100-51-6	µg/kg		1.04	4.66	NA	Yes	49.05	NA	Yes	17.96	NA	Yes
Bis(2-chloroethoxy)methane	111-91-1	µg/kg			0.71	NA	NA	2.17	NA	NA	1.15	NA	NA
Bis(2-chloroethyl) Ether	111-44-4	µg/kg		3520	1.07	NA	No	3.21	NA	No	1.71	NA	No
bis(2-Chloroisopropyl)ether	108-60-1	µg/kg			43.38	NA	NA	0.00	NA	NA	30.38	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	µg/kg		182	96.68	NA	No	179.57	NA	No	121.52	NA	No
Butyl Benzyl Phthalate	85-68-7	µg/kg		1970	17.34	NA	No	17.67	NA	No	17.44	NA	No
Carbazole	86-74-8	µg/kg			49.65	NA	NA	144.78	NA	NA	78.16	NA	NA
Chrysene	218-01-9	µg/kg		166	68.02	NA	No	300.56	NA	Yes	137.70	NA	No
Di-n-butyl Phthalate	84-74-2	µg/kg		1114	122.72	NA	No	247.72	NA	No	160.18	NA	No
Di-n-octyl Phthalate	117-84-0	µg/kg		40600	4.19	NA	No	9.15	NA	No	5.68	NA	No
Dibenz(a,h)anthracene	53-70-3	µg/kg		33	7.56	NA	No	34.50	NA	Yes	15.63	NA	No
Dibenzofuran	132-64-9	µg/kg		449	6.00	NA	No	15.05	NA	No	8.71	NA	No
Diethyl Phthalate	84-66-2	µg/kg		295	8.10	NA	No	6.50	NA	No	7.62	NA	No
Dimethyl Phthalate	131-11-3	µg/kg			1.04	NA	NA	1.49	NA	NA	1.18	NA	NA
Fluoranthene	206-44-0	µg/kg		423	179.76	NA	No	916.82	NA	Yes	400.63	NA	No
Fluorene	86-73-7	µg/kg		77.4	17.55	NA	No	52.50	NA	No	28.02	NA	No
Hexachlorobenzene	118-74-1	µg/kg		20	2.45	NA	No	7.38	NA	No	3.92	NA	No
Hexachlorobutadiene	87-68-3	µg/kg		26.5	1.98	NA	No	6.44	NA	No	3.32	NA	No
Hexachlorocyclopentadiene	77-47-4	µg/kg		901	1.17	NA	No	3.46	NA	No	1.85	NA	No
Hexachloroethane	67-72-1	µg/kg		584	1.43	NA	No	4.24	NA	No	2.27	NA	No
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		200	31.54	NA	No	147.92	NA	No	66.42	NA	No
Isophorone	78-59-1	µg/kg		432	3.57	NA	No	10.68	NA	No	5.70	NA	No
N-Nitroso-di-n-propylamine	621-64-7	µg/kg			3.21	NA	NA	9.66	NA	NA	5.14	NA	NA
N-Nitroso-diphenylamine	86-30-6	µg/kg			5.59	NA	NA	16.82	NA	NA	8.95	NA	NA
Naphthalene	91-20-3	µg/kg		176	4.59	NA	No	50.40	NA	No	18.32	NA	No
Nitrobenzene	98-95-3	µg/kg		145	2.95	NA	No	8.91	NA	No	4.74	NA	No
p-Chloro-m-cresol	59-50-7	µg/kg		388	1.89	NA	No	5.71	NA	No	3.03	NA	No
Pentachlorophenol	87-86-5	µg/kg		23000	25.45	NA	No	76.20	NA	No	40.66	NA	No
Phenanthrene	85-01-8	µg/kg		204	87.51	NA	No	527.70	NA	Yes	219.42	NA	Yes

TA" E 3
IN-CHANNEL SWA ALYSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

IN-CHANNEL SWAC ANALYSIS SUMMARY					IN-CHANNEL - Reach covering transects A through M			IN-CHANNEL - Reach covering transects N through P			IN-CHANNEL - Reach covering transects A through P		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
Phenol	108-95-2	µg/kg		49.1	25.48	NA	No	76.88	NA	Yes	40.89	NA	No
PNAs Total	TPNA	µg/kg			530.31	NA	NA	0.00	NA	NA	371.39	NA	NA
Pyrene	129-00-0	µg/kg		195	151.61	NA	No	814.76	NA	Yes	350.33	NA	Yes
PCBs													
PCB Total	TPCB	µg/kg		59.8	335.17	NA	Yes	44.38	NA	No	248.03	NA	Yes
Total Metals													
Aluminum, Total	7429-90-5	mg/kg			217.11	NA	NA	2623.89	NA	NA	938.34	NA	NA
Arsenic, Total	7440-38-2	mg/kg		9.79	15.07	NA	Yes	15.61	NA	Yes	15.23	NA	Yes
Barium, Total	7440-39-3	mg/kg			45.15	NA	NA	23.81	NA	NA	38.75	NA	NA
Cadmium, Total	7440-43-9	mg/kg		0.99	0.30	NA	No	0.10	NA	No	0.24	NA	No
Chromium, Total	7440-47-3	mg/kg	110	43.4	75.58	No	N/A	15.04	No	N/A	57.43	No	N/A
Copper, Total	7440-50-8	mg/kg	91	31.6	59.96	No	N/A	9.44	No	N/A	44.82	No	N/A
Lead, Total	7439-92-1	mg/kg	83	35.8	23.32	No	N/A	13.43	No	N/A	20.36	No	N/A
Mercury, Total	7439-97-6	mg/kg		0.174	0.05	NA	No	0.02	NA	No	0.04	NA	No
Nickel, Total	7440-02-0	mg/kg	49	22.7	27.95	No	N/A	8.58	No	N/A	22.14	No	N/A
Selenium, Total	7782-49-2	mg/kg			0.37	NA	NA	0.14	NA	NA	0.30	NA	NA
Silver, Total	7440-22-4	mg/kg		0.5	0.08	NA	No	0.04	NA	No	0.07	NA	No
Zinc, Total	7440-66-6	mg/kg	460	121	115.47	No	N/A	26.50	No	N/A	88.81	No	N/A
Chromium, Hexavalent	18540-29-9	mg/kg			1.08	NA	NA	0.32	NA	NA	0.85	NA	NA
Misc													
Cyanide, Available	57-12-5	mg/kg		0.1	0.03	NA	No	0.00	NA	No	0.02	NA	No
Cyanide, Total	57-12-5	mg/kg		0.1	0.80	NA	Yes	0.05	NA	No	0.58	NA	Yes

*U - All Values are "U" valuesIndicating th result was not detected above the method detection limit.
Values that are Bold and Highlighted Indicate an exceedance of the specified criteria

TABLE 4:

IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 TO 2009 FOR ALL COMPOUNDS WITH HITS AT TRANSECTS NOT PLANNED FOR REMOVAL

TABLE 4
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FOR ALL COMPOUNDS WITH HITS AT TRANSECTS NOT PLANNED FOR REMOVAL
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Consensed-Based																										
	Remedial Objectives	R5 RCRA Sediment ESL	TEC	MEC	PEC	Site Specific Background																							
Location									SD-I1	SD-I1	SD-I1	SD-I1	SD-I2	SD-I2	SD-I2	SD-I3	SD-I3	SD-I3	SD-J1	SD-J1	SD-J1	SD-J2	SD-J2	SD-J2	SD-J2	SD-J3	SD-J3	SD-K1	SD-K2	SD-K2
Field ID:									SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01
Date Sampled:									10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003
Data Type									Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original
Material Type									Sediment	Sediment	Sand	Sand	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Event									2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007	2003	2003	2003	2003	2003	2003
Depth (inches):									0 - 12	12 - 0	24 - 45	24 - 45	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0
Volatile Organic Compounds																														
1,2,4-Trimethylbenzene	-	-				24	95-63-6	µg/kg	78 U	9.2 J	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	10 JB	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	12 J
Acetone	-	9.9				761	67-64-1	µg/kg	400 J	250 J	310 J	500 U	340 J	300 J	320 J	590 J	380 J	460 J	260 JB	190 JB	190 JB	250 J	NA	NA	650 U	340 JB	250 JB	710 J	560 U	300 J
Bromomethane	-	-				-	74-83-9	µg/kg	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U
Carbon disulfide	-	23.9				-	75-15-0	µg/kg	27 J	13 J	560 U	500 U	16 J	570 U	12 J	1200 U	14 J	560 U	28 J	570 U	560 U	15 J	NA	NA	41 J	840 U	22 J	800 U	560 U	590 U
Chloroform	-	121				22	67-66-3	µg/kg	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	14 J	12 J	16 J	56 U	NA	NA	65 U	18 J	15 J	80 U	56 U	59 U
Chloromethane	-	-				49.5	74-87-3	µg/kg	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	16 J	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U
Ethylbenzene	-	175				-	100-41-4	µg/kg	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	8.2 J
Methyl ethyl ketone	-	42.4				517	78-93-3	µg/kg	460 J	350 J	250 J	290 J	400 J	360 J	500 J	640 J	590 U	230 J	150 J	92 J	110 J	290 J	NA	NA	420 J	230 J	170 J	690 J	380 J	450 J
Methylene chloride	-	159				-	75-09-2	µg/kg	62 J	31 J	31 J	46 J	36 J	30 J	56 J	90 J	29 J	43 J	77 U	57 U	56 U	17 J	NA	NA	54 J	84 U	77 U	27 J	10 J	29 J
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	330 U, 390 U	290 U, 330 U	280 U, 330 U	250 U, 330 U	310 U, 330 U	280 U, 330 U	330 U, 340 U	330 U, 610 U	290 U, 330 U	280 U, 330 U	12 JB	9 JB	140 U	280 U, 330 U	NA	NA	320 U, 330 U	11 JB	190 U	330 U, 400 U	280 U, 330 U	290 U, 330 U
Tetrachloroethene	-	990				-	127-18-4	µg/kg	78 U	58 U	56 U	50 U	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U
Toluene	-	1220	890	1345	1800	3.2	108-88-3	µg/kg	13 J	8.1 J	6.7 J	5.8 J	14 J	6 J	68 U	16 J	59 U	56 U	77 U	57 U	56 U	11 J	NA	NA	15 J	84 U	77 U	80 U	56 U	18 J
Xylene, Meta + Para	-	-				-	Not Applicable	µg/kg	160 U	120 U	110 U	100 U	120 U	110 U	140 U	240 U	120 U	110 U	150 U	110 U	110 U	110 U	NA	NA	130 U	170 U	150 U	160 U	110 U	22 J
Semi-Volatile Organic Compounds																														
1,2-Benzphenanthracene	-	-				-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	-	20.2	20.2	111	201	-	91-57-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthene	-	6.71	6.7	48	89	-	83-32-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	11 J	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	-	5.87	5.9	67	128	-	208-96-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	2650 U	2820 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	-	57.2	57.2	451	845	-	120-12-7	µg/kg	330 U	330 U	330 U	330 U	5.3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U
Benz(a)anthracene	-	108	108	579	1050	303	56-55-3	µg/kg	330 U	330 U	330 U	330 U	28 J	330 U	330 U	16 J	330 U	330 U	63 J	330 U	330 U	8 J	661 U	706 U	6.9 J	330 U	330 U	9.5 J	330 U	330 U
Benzo(a)pyrene	-	150	150	800	1450	332	50-32-8	µg/kg	330 U	330 U	330 U	330 U	23 J	330 U	330 U	22 J	330 U	330 U	72 J	330 U	330 U	7.5 J	66.1 U	70.6 U	6.7 J	330 U	330 U	9.5 J	330 U	330 U
Benzo(b)fluoranthene	-	10400	240	6820	13400	307	205-99-2	µg/kg	330 U	330 U	330 U	330 U	22 J	330 U	330 U	20 J	330 U	330 U	89 J	330 U	330 U	9.8 J	661 U	706 U	7.2 J	330 U	330 U	10 J	330 U	330 U
Benzo(g,h,i)perylene	-	170	170	1685	3200	160	191-24-2	µg/kg	330 U	330 U	330 U	330 U	14 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	6.3 J	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	-	240	240	6820	13400	270	207-08-9	µg/kg	330 U	330 U	330 U	330 U	15 J	330 U	330 U	21 J	330 U	330 U	74 J	330 U	330 U	8.4 J	1320 U	1410 U	7.5 J	330 U	330 U	330 U	330 U	330 U
Benzoic acid	-	-	6500	6500	6500	320	65-85-0	µg/kg	3300 U	3300 U	5.8 J	3300 U	3300 U	130 J	6.4 J	98 J	8.1 J	11 J	3300 U	3300 U	3300 U	18 J	NA	NA	16 J	3300 U	320 J	35 J	3300 U	3300 U
Benzyl alcohol	-	1.04	570	650	730	-	100-51-6	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	NA	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
bis(2-Ethylhexyl)phthalate	-	182				110	117-81-7	µg/kg	23 J	19 J	19 J	16 J	13 J	18 J	18 J	38 J	19 J	17 J	110 J	71 J	330 U	43 J	NA	NA	36 J	90 J	56 J	16 J	9.1 J	9.5 J
B[illegible]yl phthalate	-	1970				-	85-68-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	4.7 J	330 U
C[illegible]	-	166	166	728	1290	350	218-01-9	µg/kg	330 U	330 U	330 U	330 U	26 J	330 U	330 U	22 J	330 U	330 U	65 J	330 U	330 U	9 J	1320 U	1410 U	6.7 J	330 U	330 U	12 J	330 U	330 U
Di-N-Butyl phthalate	-	1114	2200	9600	17000	220	84-74-2	µg/kg	57 J	40 J	31 J	40 J	28 J	34 J	52 J	85 J	35 J	32 J	81 J	330 U	59 J	51 J	NA	NA	330 U	88 J	330 U	21 J	20 J	20 J
Dibenz(a,h)anthracene	-	33	33	84	135	-	53-70-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	66.1 U	70.6 U	330 U	330 U	330 U	330 U	330 U	330 U
Diethylphthalate	-	295	610	855	1100	-	84-66-2	µg/kg	15 J	12 J	8.9 J	9.5 J	11 J	9.4 J	14 J	17 J	7.8 J	6.4 J	330 U	330 U	330 U	14 J	NA	NA	16 J	330 U	330 U	4.5 J	4.3 J	4.1 J
Fluoranthene	-	423	423	1327	2230	631	206-44-0	µg/kg	330 U	330 U	330 U	330 U	43 J	330 U	330 U	45 J	330 U	330 U	210 J	330 U	330 U	18 J	1320 U	1410 U	21 J	330 U	330 U	17 J	330 U	330 U
Fluorene	-	77.4	77.4	307	536	-	86-73-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	-	200	200	1700	3200	160	193-39-5	µg/kg	330 U	330 U	330 U	330 U	14 J	330 U	330 U	14 J	330 U	330 U	330 U	330 U	330 U	5.3 J	661 U	706 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	1320 U	1410 U	NA	330 U	330 U	NA	NA	NA
Phenanthrene	-	204	204	687	1170	240	85-01-8	µg/kg	330 U	330 U	330 U	330 U	11 J	330 U	330 U	15 J	330 U	330 U	67 J	330 U	330 U	9.3 J	1320 U	1410 U	4.7 J	330 U	330 U	6.5 J	330 U	330 U
Phenol	-	49.1	4200	8100	12000	-	108-95-2	µg/kg	330 U	330 U	330 U	330 U	330 U	19 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U
PNAs, Total	-	-					TPNA	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	195	195	858	1520	518	129-00-0	µg/kg	330 U	330 U	330 U	330 U	42 J	330 U	330 U	31 J	330 U	330 U	180 J	330 U	330 U	16 J	1320 U	1410 U	18 J	330 U	330 U	14 J	330 U	330 U
Polychlorinated Biphenyls (PCBs):																														
PCB, Total	-	59.8	60	368	676		TPCB	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	126 J	7 J	NA	NA	NA	NA	NA	22.4 J	NA	NA	NA	NA
PCB-1248	-	59.8				-	12672-29-6	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 J	7 J	330 U	NA	0.045 U	31.1 U	NA	13 J	330 U	NA	NA	NA
PCB-1260	-	59.8				-	11096-82-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	16 J	330 U	330 U	330 U	0.045 U	31.1 U	330 U	9.4 J	330 U	22 J	330 U	330 U
Total Metals:																														
Aluminum, Total	-	-				5810	7429-90-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	-	9.79	9.8	21.4	33	36.6	7440-38-2	mg/kg	8.9	18	6.3	10	4.9	3.4	6.4	18	3.4	4.6	8.7	1.7	2.8	8.4	5.04	6.28	7.2	7.8	14	13	2.3	1.4
Barium, Total	-	-				163	7440-39-3	mg/kg	54	13	11	8.4	17	7	11	128	18	18	74	10	8.2	48	NA	NA	29	47	62	114	6.1	5.4
Cadmium, Total	-	0.99	0.99	3	5	1.85	7440-43-9	mg/kg	0.21	0.068	0.056 J	0.053 J	0.076	0.029 J	0.054 J	0.42	0.069	0.081	0.72	0.24	0.23	0.23	0.757 U	0.706 U	0.1	0.45	0.53	0.4	0.031 J	0.041 J
Chromium, Total	110	43.4	43	76.5	110	15.4	7440-47-3	mg/kg	26	9.8	5.2	4.2	10	3.6	4.1	102	13	12	40	7.5	5.3	74	11.3	13.5	35	40	10	109	4.4	3.7
Copper, Total	91	31.6	32	91	150	25.9	7440-50-8	mg/kg	17	3.1	3.3	2	2.8	0.8 J	1.2 J	82	11	8	47	5.4	4.1	64	14.47	12.5	26	34	11	73	2.2	2.2
Lead, Total	83	35.8	36	83	130	21.6	7439-92-1	mg/kg	7.5	2.9	2.4	1.9	5.7	1.5	1.6	17	3.2	3.9	12	2.4	2.1	16	4.16	4.18	8.3	9.1	6.2	20	1.7	1.6
Mercury, Total	-	0.174	0.18	0.64	1.1	0.147	7439-97-6	mg/kg	0.057 J	0.015 J	0.0096 J	0.1 U	0.031 J	0.012 J	0.012 J	0.12	0.021 J	0.019 J	0.04 J	0.1 U	0.011 J	0.038 J	NA	NA	0.024 J	0.031 J	0.028 J	0.1	0.1 U	0.1 U
Nickel, Total	49	22.7	23	36	49	15.5	7440-02-0	mg/kg	11	7.9	7	9.1	6.1	3.5	3.8	39	8.9	8.6	26	7.5	6.9	34	8.04	8.62	20	19	12	29	5.2	4.5
Selenium, Total	-	-				2.32	7782-49-2	mg/kg	0.36	0.12 J	0.16 J	0.29	0.14 J	0.33 U	0.13 J	0.65	0.15 J	1.9	0.48	0.43	0.24	0.33	NA	NA	0.18 J	0.43	0.58	0.61	0.11 J	0.091 J
Silver, Total	-	0.5	1.6	1.9	2.2	1	7440-22-4	mg/kg	0.061 J	0.046 J	0.039 J	0.038 J	0.033 J	0.019 J	0.023 J	0.13 J	0.045 J	0.058 J	0.092 J	0.049 J	0.028 J	0.12 J	NA	NA	0.037 J	0.087 J	0.073 J	0.077 J	0.025 J	0.02 J
Zinc, Total	460	121	120	290	460	110	7440-66-6	mg/kg	50	15	11	7.1	19	9.9	8.8	114	19	18	89	22	12	108	29.7	31.4	51	61	34	139	9.2	10
Chromium(VI)	-	-				-	18540-29-9	mg/kg	2 U	0.42 J	0.34 J	2 U	2 U	2 U	3	26	1.8 J	2 U	2.1 U	2 U	2 U	2 U			2 U	12 U	22 U	2 U	2 U	2 U
Miscellaneous Parameters:																														
Cyanide, Free	-	0.1				-	57-12-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA
Cyanide, Total	-	0.1				0.87	57-12-5	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.5	0.2 U	0.2 U	0.07 J	0.02 J	0.2 U	0.32	NA	NA	0.16 J	0.08 J	0.02 J	0.18 J	0.2 U	0.2 U

Notes:
NA - Indicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B[illegible]tes that that compound was also detected in a Blank and qualified as a likely lab contaminant.
V[illegible]ut are Bold indicate an exceedance of PEC.
Values that are Bold and Blue indicate an exceedance of one of the other sediment criteria listed.
All RO exceedances were evaluated and proposed for removal (except for L which was re-sampled and considered an outlier). So, those compounds with a given RO are not shown evaluated against further criteria.

TABLE 4
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FOR ALL COMPOUNDS WITH HITS AT TRANSECTS NOT PLANNED FOR REMOVAL
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	Remedial Objectives	R5 RCRA Sediment ESL	Consensed-Based TEC	Consensed-Based MEC	Consensed-Based PEC	Site Specific Background																								
Location									SD-K1	SD-K3	SD-K3	SD-LU1	SD-LU2	SD-LU3	SD-L1 (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-N1	SD-N1	SD-N2	SD-N2	SD-N2	SD-N3
Field ID:									SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-3A 0911425-16
Date Sampled:									10/15/2003	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	40136	40136	40136	40136	40136	40136
Data Type									Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original
Material Type									Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Event									2003	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2009	2009	2009	2009	2009	2009
Depth (inches):									12 - 24	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 13	13 - 26	0 - 12	12 - 24	12 - 24	0 - 15
Volatile Organic Compounds																														
1,2,4-Trimethylbenzene	-	-				24	95-63-6	µg/kg	77 U	11 J	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Acetone	-	9.9				761	67-64-1	µg/kg	550 J	670 U	550 U	840 U	110 J	180 J	570 U	840 U	600 U	580 U	240 J*	820 U	810 U	170 J	680 U	130 J	270 J	310 J	240 J	340 J	320 J	290 J
Bromomethane	-	-				-	74-83-9	µg/kg	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	130	81 U	65 U	61 J	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Carbon disulfide	-	23.9				-	75-15-0	µg/kg	52 J	670 U	550 U	310 U	290 U	330 U	570 U	280 U	600 U	580 U	290 U	820 U	810 U	330 U	680 U	330 U	320 U	370 U	300 U	360 U	350 U	350 U
Chloroform	-	121				22	67-66-3	µg/kg	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Chloromethane	-	-				49.5	74-87-3	µg/kg	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Ethylbenzene	-	175				-	100-41-4	µg/kg	77 U	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Methyl ethyl ketone	-	42.4				517	78-93-3	µg/kg	570 J	620 J	340 J	52 J	52 J	78 J	570 U	52 J	600 U	580 U	2900 U	820 U	810 U	78 J	680 U	70 J	3200 U	3700 U	3000 U	3600 U	3500 U	3500 U
Methylene chloride	-	159				-	75-09-2	µg/kg	38 J	45 J	16 J	61 J	30 J	44 J	390	41 J	400	370	60 J	82 U	81 U	43 J	68 U	40 J	28 J	34 J	34 J	42 J	45 J	54 J
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	330 U, 380 U	330 U	270 U, 330 U	310 U	290 U	330 U	140 U	280 U	150 U	140 U	290 U	210 U	200 U	330 U	170 U	330 U	320 U	370 U	20 U	360 U	350 U	200 J
Tetrachloroethene	-	990				-	127-18-4	µg/kg	77 U	67 U	22 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	64 U	73 U	59 U	72 U	70 U	70 U
Toluene	-	1220	890	1345	1800	3.2	108-88-3	µg/kg	77 U	17 J	8.8 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	29 J	64 U	73 U	59 U	72 U	70 U	70 U
Xylene, Meta + Para	-	-				-	Not Applicable	µg/kg	150 U	130 U	110 U	120 U	120 U	130 U	110 U	110 U	120 U	120 U	120 U	160 U	160 U	130 U	140 U	130 U	130 U	150 U	120 U	140 U	140 U	140 U
Semi-Volatile Organic Compounds																														
1,2-Benzphenanthracene	-	-				-	218-01-9	µg/kg	NA	NA	NA	32	13 J	98	NA	19 U	NA	NA	72	NA	NA	83	NA	41	240	37	25	19 J	23 U	830
2-Methylnaphthalene	-	20.2	20.2	111	201	-	91-57-6	µg/kg	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	1.8 J	1.3 J	26 U	1.2 J	24 U	23 U	6.9 J
Acenaphthene	-	6.71	6.7	48	89	-	83-32-9	µg/kg	330 U	330 U	330 U	4.0 J	20 U	8.1 J	330 UJ	19 U	330 UJ	330 UJ	2.8 J	330 UJ	330 UJ	8.1 J	330 UJ	2.2 J	20 J	2.6 J	2.0 J	1.9 J	23 U	93 J
Acenaphthylene	-	5.87	5.9	67	128	-	208-96-8	µg/kg	330 U	330 U	330 U	23 U	20 U	5.6 J	330 UJ	19 U	330 UJ	330 UJ	5.1 J	330 UJ	330 UJ	23 U	330 UJ	22 U	4.2 J	26 U	20 U	24 U	23 U	21 J
Anthracene	-	57.2	57.2	451	845	-	120-12-7	µg/kg	330 U	330 U	330 U	NA	NA	NA	330 UJ	NA	330 UJ	330 UJ	NA	93 J	39 J	NA	330 UJ	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	-	108	108	579	1050	303	56-55-3	µg/kg	330 U	330 U	330 U	33	14 J	87	330 UJ	3.0 J	330 UJ	91 J	81	370 J	190 J	87	330 UJ	46	330	58	36	38	3.8 J	1000
Benzo(a)pyrene	-	150	150	800	1450	332	50-32-8	µg/kg	330 U	330 U	330 U	35	13 J	72	330 UJ	3.4 J	330 UJ	330 UJ	71	300 J	170 J	72	330 UJ	45	190	38	23	20 J	5.2 J	710
Benzo(b)fluoranthene	-	10400	240	6820	13400	307	205-99-2	µg/kg	330 U	330 U	330 U	57	18 J	170	330 UJ	4.5 J	330 UJ	110 J	89	420 J	240 J	120	330 UJ	71	310	68	43	45	7.6 J	1300
Benzo(g,h,i)perylene	-	170	170	1685	3200	160	191-24-2	µg/kg	330 U	330 U	330 U	24 J	9.3 J	64	330 UJ	1.5 J	330 UJ	49 J	25 J	200 J	74 J	51	330 UJ	26 J	86	13 J	21 J	15 J	47 U	410
Benzo(k)fluoranthene	-	240	240	6820	13400	270	207-08-9	µg/kg	330 U	330 U	330 U	20 J	12 J	63	330 UJ	19 U	330 UJ	69 J	67	190 J	110 J	41	330 UJ	18 J	150	17 J	12 J	12 J	2.4 J	480
Benzoic acid	-	-	6500	6500	6500	320	65-85-0	µg/kg	110 J	3300 U	3300 U	450 U	390 U	470 U	3300 UJ	380 U	3300 UJ	3300 UJ	390 U	3300 UJ	3300 UJ	470 U	3300 UJ	440 U	420 U	520 U	390 U	480 U	470 U	2300 U
Benzyl alcohol	-	1.04	570	650	730	-	100-51-6	µg/kg	1300 U	1300 U	1300 U	23 U	20 U	23 U	1300 UJ	19 U	1300 UJ	1300 UJ	32	1300 UJ	1300 UJ	23 U	1300 UJ	22 U	21 U	26 U	35	85	57	120 U
bis(2-Ethylhexyl)phthalate	-	182				110	117-81-7	µg/kg	13 J	15 J	16 J	52	14 J	25 J	330 UJ	52	330 UJ	330 UJ	15 J	330 UJ	82 J	25 J	330 UJ	12 J	800	280	54	11 J	29 J	69 J
F[illegible]zyl phthalate	-	1970				-	85-68-7	µg/kg	330 U	330 U	330 U	45 U	15 J	7.8 J	330 UJ	22 J	330 UJ	330 UJ	39 U	330 UJ	330 UJ	19 J	330 UJ	44 U	32 J	32 J	12 J	11 J	47 U	230 U
C[illegible]	-	166	166	728	1290	350	218-01-9	µg/kg	330 U	330 U	330 U	32	13 J	98	330 UJ	19 U	330 UJ	110 J	72	350 J	180 J	83	330 UJ	41	240	37	25	19 J	23 U	830
Di-N-Butyl phthalate	-	1114	2200	9600	17000	220	84-74-2	µg/kg	26 J	47 J	35 J	190 J	150 J	72 J	340 J	180 J	18 J	140 J	160 J	160 J	330 UJ	72 J	330 UJ	100 J	86 J	270	360	360	230 U	340 J
Dibenz(a,h)anthracene	-	33	33	84	135	-	53-70-3	µg/kg	330 U	330 U	330 U	45 U	39 U	47 U	330 UJ	38 U	330 UJ	330 UJ	39 U	330 UJ	330 UJ	47 U	330 UJ	44 U	23 J	52 U	39 U	48 U	47 U	100 J
Diethylphthalate	-	295	610	855	1100	-	84-66-2	µg/kg	5.3 J	14 J	11 J	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	4.4 J	330 UJ	330 UJ	23 U	330 UJ	22 U	21 U	26 U	4.7 J	24 U	5.2 J	120 U
Fluoranthene	-	423	423	1327	2230	631	206-44-0	µg/kg	330 U	330 U	330 U	70	28	240	330 UJ	6.4 J	330 UJ	250 J	190	1000 J	490 J	190	330 UJ	79	560	100	67	68	11 J	2800
Fluorene	-	77.4	77.4	307	536	-	86-73-7	µg/kg	330 U	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	57 J	330 UJ	23 U	330 UJ	22 U	23	26 U	20 U	24 U	23 U	150
Indeno(1,2,3-cd)pyrene	-	200	200	1700	3200	160	193-39-5	µg/kg	330 U	330 U	330 U	38 U	8.1 J	59	330 UJ	38 U	330 UJ	41 J	22 J	160 J	75 J	41 J	330 UJ	26 J	73	7.4 J	25 J	11 J	47 U	450
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	NA	NA	NA	310 U	290 U	330 U	330 UJ	280 U	330 UJ	330 UJ	290 U	330 UJ	330 UJ	330 U	330 UJ	330 U	320 U	370 U	20 U	360 U	350 U	200 J
Phenanthrene	-	204	204	687	1170	240	85-01-8	µg/kg	330 U	330 U	330 U	34	9.7 J	170	330 UJ	2.2 J	330 UJ	90 J	76	580 J	240 J	110	330 UJ	44	230	32	30	36	3.3 J	1500
Phenol	-	49.1	4200	8100	12000	-	108-95-2	µg/kg	330 U	330 U	330 U	230 U	200 U	330 U	330 UJ	190 U	330 UJ	330 UJ	200 U	330 UJ	330 UJ	230 U	330 UJ	220 U	210 U	260 U	200 U	240 U	230 U	1200 U
PNAs, Total	-	-					TPNA	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1010	NA	4450	2168	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	195	195	858	1520	518	129-00-0	µg/kg	330 U	330 U	330 U	72	27	270	330 UJ	4.9 J	330 UJ	200 J	160	730 J	360 J	180	330 UJ	87	640	95	58	59	11 J	2300
Polychlorinated Biphenyls (PCBs):																														
PCB, Total	-	59.8	60	368	676		TPCB	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	52 J	NA	38 J	33 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	-	59.8				-	12672-29-6	µg/kg	NA	NA	NA	370 U	23 J	27 J	330 U	370 U	330 U	52 J	32 J	38 J	33 J	27 J	330 U	440 U	54 J	520 U	8.5 J	470 U	460 U	37 J
PCB-1260	-	59.8				-	11096-82-5	µg/kg	330 U	330 U	330 U	450 U	390 U	460 U	330 U	370 U	330 U	330 U	390 U	330 U	330 U	460 U	330 U	440 U	420 U	520 U	390 U	470 U	460 U	460 U
Total Metals:																														
Aluminum, Total	-	-				5810	7429-90-5	mg/kg	NA	NA	NA	2300	2600	1900	NA	1600	NA	NA	2000	NA	NA	1900	NA	2900	2000	2100	2100	2100	1600	2200
Arsenic, Total	-	9.79	9.8	21.4	33	36.6	7440-38-2	mg/kg	9.6	2.1	1.5	3.2	3.2	4.5	2.3	2.0	0.84	7.4	6.6	6.3	7	4.5	4.2	4.9	4.0	3.9	5.4	5.3	6.8	6.3
Barium, Total	-	-				163	7440-39-3	mg/kg	73	8.8	6.3	6.0	11	33	7.8	6.0	5.3	29	19	50	45	33	13	29	17	16	12	18	18	23
Cadmium, Total	-	0.99	0.99	3	5	1.85	7440-43-9	mg/kg	0.25	0.039 J	0.042 J	0.10	0.058	0.094	0.22	0.037 J	0.18	0.49	0.11	0.43	0.4	0.094	0.21	0.20	0.10	0.090	0.067	0.060	0.059	0.13
Chromium, Total	110	43.4	43	76.5	110	15.4	7440-47-3	mg/kg	23	3.5	3.9	3.9 B	7.4 B	7.0 B	4.6	3.9 B	4.3	20	18	13	9.7	13 B	5.1	5.3 B	21	4.9	23	4.9	7.6	15
Copper, Total	91	31.6	32	91	150	25.9	7440-50-8	mg/kg	16	2.6	3.7	3.6	5.1	8.7	3.8	3.6	3.3	13	12	11	8.7	8.7	4.3	5.4	15 B	3.3 B	11 B	3.3 B	7.1	11 B
Lead, Total	83	35.8	36	83	130	21.6	7439-92-1	mg/kg	9.4	1.5	2.4	3.6	2.8	3.5	2.2	1.4	1.5	7.9	4.0	7.6	97	3.5	3.7	7.8	7.8	3.2	11	2.4	4.2	7.9
Mercury, Total	-	0.174	0.18	0.64	1.1	0.147	7439-97-6	mg/kg	0.082 J	0.1 U	0.1 U	0.050 U	0.036 J	0.050 U	0.1 U	0.050 U	0.1 U	0.26	0.045 J	0.1	0.072 J	0.016 J	0.1 U	0.049 J	0.0084 J	0.047	0.0084 J	0.050 U	0.050 U	0.014 J
Nickel, Total	49	22.7	23	36	49	15.5	7440-02-0	mg/kg	12	5.4	4.8	9.3	7.4	6.4	6.9	4.9	4.6	13	13	6.7	6.9	6.4	5.8	5.2	9.9	4.9	10	5.6	9.0	8.5
Selenium, Total	-	-				2.32	7782-49-2	mg/kg	0.51	0.11 J	0.11 J	0.18	0.13	0.19	0.073 J	0.099 J	0.052 J	0.26	0.18	0.2 J	0.26 J	0.19	0.073 J	0.28	0.11	0.093 U	0.093 J	0.13	0.22	0.058 J
Silver, Total	-	0.5	1.6	1.9	2.2	1	7440-22-4	mg/kg	0.078 J	0.024 J	0.031 J	0.057	0.037 J	0.038 J	0.023 J	0.027 J	0.59 U	0.066 J	0.050	0.043 J	0.033 J	0.028 J	0.027 J	0.054	0.028 J	0.022 J	0.021 J	0.020 J	0.046	0.031 J
Zinc, Total	460	121	120	290	460	110	7440-66-6	mg/kg	49	11	11	7.6	20	24	13	7.6	9.5	44	35 B	43	34	24	17	27	39	16	25	13	15 B	30
Chromium(VI)	-	-				-	18540-29-9	mg/kg	2 U	0.51 J	2 U	0.28 J	0.20 J	0.61 J	2.1 U	0.28 J	2 U	2 U	2.3 U	2.6 U	3 U	0.61 J	2 U	1.1 J	0.35 J	0.35 J	2.2 U	0.50 J	0.38 J	2.4 U
Miscellaneous Parameters:																														
Cyanide, Free	-	0.1				-	57-12-5	mg/kg	NA	NA	NA	NA	NA	NA	0.5 U	NA	0.5 U	0.5 U	1.8	0.5 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	-	0.1				0.87	57-12-5	mg/kg	0.74	0.2 U	0.2 U	0.14 U	0.12 U	0.14 U	0.2 U	0.11 U	0.2 U	0.04 J	1.4	0.02 U	0.013 J	0.14 U	0.2 U	0.13 U	0.13 U	0.16 U	0.12 U	0.14 U	0.14 U	0.14 U

Notes:
NA - Indicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B [illegible]tes that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Va[illegible] that are Bold Indicate an exceedance of PEC.
Values that are Bold and Blue indicate an exceedance of one of the other sediment criteria listed.
All RO exceedances were evaluated and proposed for removal (except for L which was re-sampled and considered an outlier). So, those compounds with a given RO are not shown evaluated against further criteria.

TABLE 4
IN-CHANNEL SEDIMENT ANALYTICAL RESULTS - 2003 to 2009
FOR ALL COMPOUNDS WITH HITS AT TRANSECTS NOT PLANNED FOR REMOVAL
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Consensed-Based															
	Remedial Objectives	R5 RCRA Sediment ESL	TEC	MEC	PEC	Site Specific Background												
Location									SD-N3	SD-O1	SD-O1	SD-O2	SD-O3	SD-P1	SD-P1	SD-P2	SD-P2	SD-P3
Field ID:									N-09-SD-3B 0911425-17	O-09-SD-1A 0911425-06	O-09-SD-1B 0911425-07	O-09-SD-2A 0911425-08	O-09-SD-3A 0911425-10	P-09-SD-1A 0911425-01	P-09-SD-1B 0911425-02	P-09-SD-2A 0911425-03	P-09-SD-2B 0911425-04	P-09-SD-3A 0911425-05
Date Sampled:									40136	40136	40136	40136	40136	40135	40135	40135	40135	40136
Data Type									Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
Material Type									Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Event									2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
Depth (inches):									15 - 30	0 - 12	12 - 24	0 - 15	0 - 14	0 - 24	24 - 48	0 - 18	0 - 36	0 - 10
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	-	-				24	95-63-6	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Acetone	-	9.9				761	67-64-1	µg/kg	300 J	240 J	330 J	310 J	230 J	320 J	300 J	340 J	290 J	550 J
Bromomethane	-	-				-	74-83-9	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Carbon disulfide	-	23.9				-	75-15-0	µg/kg	330 U	300 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
Chloroform	-	121				22	67-66-3	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Chloromethane	-	-				49.5	74-87-3	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Ethylbenzene	-	175				-	100-41-4	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Methyl ethyl ketone	-	42.4				517	78-93-3	µg/kg	3300 U	3000 U	3200 U	3300 U	3500 U	3000 U	3200 U	4000 U	3100 U	5800 U
Methylene chloride	-	159				-	75-09-2	µg/kg	45 J	27 J	26 J	31 J	33 J	31 J	26 J	48 J	30 J	49 J
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	330 U	20 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
Tetrachloroethene	-	990				-	127-18-4	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Toluene	-	1220	890	1345	1800	3.2	108-88-3	µg/kg	66 U	60 U	63 U	66 U	71 U	60 U	64 U	79 U	62 U	120 U
Xylene, Meta + Para	-	-				-	Not Applicable	µg/kg	130 U	120 U	130 U	130 U	140 U	120 U	130 U	160 U	120 U	230 U
Semi-Volatile Organic Compounds																		
1,2-Benzphenanthracene	-	-				-	218-01-9	µg/kg	8.3 J	130	19 J	780	120	180	21 U	54	21 U	11 J
2-Methylnaphthalene	-	20.2	20.2	111	201	-	91-57-6	µg/kg	22 U	20 U	21 U	19 J	3.0 J	2.0 J	21 U	26 U	21 U	39 U
Acenaphthene	-	6.71	6.7	48	89	-	83-32-9	µg/kg	22 U	9.6 J	1.7 J	160 J	2.0 J	11 J	21 U	3.7 J	21 U	39 U
Acenaphthylene	-	5.87	5.9	67	128	-	208-96-8	µg/kg	22 U	9.2 J	21 U	240 U	26 U	11 J	21 U	26 U	21 U	39 U
Anthracene	-	57.2	57.2	451	845	-	120-12-7	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	-	108	108	579	1050	303	56-55-3	µg/kg	11 J	190	22	770	200	370	2.2 J	67	2.5 J	8.5 J
Benzo(a)pyrene	-	150	150	800	1450	332	50-32-8	µg/kg	7.4 J	140	16 J	630	110	150	21 U	46	21 U	9.3 J
Benzo(b)fluoranthene	-	10400	240	6820	13400	307	205-99-2	µg/kg	14 J	210	15 J	860	180	320	21 U	67	21 U	9.3 J
Benzo(g,h,i)perylene	-	170	170	1685	3200	160	191-24-2	µg/kg	3.5 J	59	8.1 J	370 J	59	74	42 U	19 J	41 U	3.1 J
Benzo(k)fluoranthene	-	240	240	6820	13400	270	207-08-9	µg/kg	4.8 J	94	6.4 J	360	94	84	21 U	38	21 U	12 J
Benzoic acid	-	-	6500	6500	6500	320	65-85-0	µg/kg	440 U	400 U	420 U	4700 U	520 U	400 U	420 U	530 U	410 U	770 U
Benzyl alcohol	-	1.04	570	650	730	-	100-51-6	µg/kg	67	20 U	21 U	240 U	26 U	59	160	26 U	78	39 U
bis(2-Ethylhexyl)phthalate	-	182				110	117-81-7	µg/kg	44 U	9.6 J	7.2 J	470 U	100	99	58	56	53	13 J
B[illegible]zyl phthalate	-	1970				-	85-68-7	µg/kg	44 U	40 U	42 U	470 U	34 J	40 U	42 U	53 U	41 U	14 J
C[illegible]	-	166	166	728	1290	350	218-01-9	µg/kg	8.3 J	130	19 J	780	120	180	21 U	54	21 U	11 J
Di-N-Butyl phthalate	-	1114	2200	9600	17000	220	84-74-2	µg/kg	220 U	170 J	210 U	2400 U	180 J	200 U	210 U	260 U	210 U	310 J
Dibenz(a,h)anthracene	-	33	33	84	135	-	53-70-3	µg/kg	44 U	21 J	42 U	470 U	21 J	21 J	42 U	53 U	41 U	77 U
Diethylphthalate	-	295	610	855	1100	-	84-66-2	µg/kg	22 U	20 U	21 U	240 U	26 U	20 U	21 U	26 U	21 U	39 U
Fluoranthene	-	423	423	1327	2230	631	206-44-0	µg/kg	29	340	25	2500	260	350	1.3 J	140	2.1 J	17 J
Fluorene	-	77.4	77.4	307	536	-	86-73-7	µg/kg	22 U	18 J	21 U	190 J	26 U	31	21 U	26 U	21 U	39 U
Indeno(1,2,3-cd)pyrene	-	200	200	1700	3200	160	193-39-5	µg/kg	44 U	46	8.9 J	410 J	43 J	70	42 U	20 J	41 U	77 U
Naphthalene	-	176	176	369	561	78.7	91-20-3	µg/kg	330 U	20 U	320 U	330 U	350 U	300 U	320 U	400 U	310 U	580 U
Phenanthrene	-	204	204	687	1170	240	85-01-8	µg/kg	12 J	180	17 J	2000	68	330	21 U	61	21 U	5.4 J
Phenol	-	49.1	4200	8100	12000	-	108-95-2	µg/kg	220 U	200 U	210 U	2400 U	260 U	200 U	210 U	260 U	210 U	390 U
PNAs, Total	-	-					TPNA	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	195	195	858	1520	518	129-00-0	µg/kg	20 J	350	42	2000	280	600	1.7 J	120	3.3 J	16 J
Polychlorinated Biphenyls (PCBs):																		
PCB, Total	-	59.8	60	368	676		TPCB	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	-	59.8				-	12672-29-6	µg/kg	430 U	400 U	420 U	12 J	510 U	400 U	420 U	520 U	410 U	760 U
PCB-1260	-	59.8				-	11096-82-5	µg/kg	430 U	400 U	420 U	470 U	510 U	400 U	420 U	520 U	410 U	760 U
Total Metals:																		
Aluminum, Total	-	-				5810	7429-90-5	mg/kg	2000	2100	1900	2500	4400	1600	1800	3200	6300	3400
Arsenic, Total	-	9.79	9.8	21.4	33	36.6	7440-38-2	mg/kg	7.4	4.2	3.4	4.6	6.6	3.9	4.4	11	11	170
Barium, Total	-	-				163	7440-39-3	mg/kg	13	13	17	27	37	14	17	25	51	38
Cadmium, Total	-	0.99	0.99	3	5	1.85	7440-43-9	mg/kg	0.044 J	0.073	0.063	0.086	0.14	0.053	0.059	0.086	0.16	0.13
Chromium, Total	110	43.4	43	76.5	110	15.4	7440-47-3	mg/kg	4.3	8.5	6.2	8.8	14	3.9	3.6	7.0	12	8.0
Copper, Total	91	31.6	32	91	150	25.9	7440-50-8	mg/kg	3.2 B	3.4 B	3.7 B	5.7 B	9.8 B	2.3 B	2.6 B	5.9 B	10 B	5.0 B
Lead, Total	83	35.8	36	83	130	21.6	7439-92-1	mg/kg	1.8	48	4.5	9.7	6.6	7.9	1.8	22	6.3	4.3
Mercury, Total	-	0.174	0.18	0.64	1.1	0.147	7439-97-6	mg/kg	0.047 U	0.014 J	0.046 U	0.050 U	0.050 U	0.046 U	0.050 U	0.050 U	0.046 U	0.046 U
Nickel, Total	49	22.7	23	36	49	15.5	7440-02-0	mg/kg	4.8	6.1	5.6	6.0	10	3.9	3.7	6.6	13	7.1
Selenium, Total	-	-				2.32	7782-49-2	mg/kg	0.086 J	0.11	0.093 J	0.14	0.12	0.070 J	0.10	0.10 U	0.19	0.26
Silver, Total	-	0.5	1.6	1.9	2.2	1	7440-22-4	mg/kg	0.027 J	0.032 J	0.027 J	0.033 J	0.056	0.042 J	0.043 J	0.049 J	0.086	0.060
Zinc, Total	460	121	120	290	460	110	7440-66-6	mg/kg	10	15	15	20	27	12	11	18	33	23
Chromium(VI)	-	-				-	18540-29-9	mg/kg	0.30 J	0.25 J	2.5 U	0.36 J	3.1 U	2.2 U	2.6 U	3.2 U	2.5 U	0.53 J
Miscellaneous Parameters:																		
Cyanide, Free	-	0.1				-	57-12-5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	-	0.1				0.87	57-12-5	mg/kg	0.13 U	0.12 U	0.13 U	0.14 U	0.16 U	0.12 U	0.13 U	0.16 U	0.12 U	0.23 U

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Indicates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B [illegible]tes that that compound was also detected in a Blank and qualified as a likely lab contaminant.

Va[illegible]at are Bold indicate an exceedance of PEC.

Values that are Bold and Blue indicate an exceedance of one of the other sediment criteria listed.

All RO exceedances were evaluated and proposed for removal (except for L which was re-sampled and considered an outlier). So, those compounds with a given RO are not shown evaluated against further criteria.

TABLE 5:

MEAN PEC Q CALCULATION SUMMARY FOR IN-CHANNEL N3, O2, AND P3

5(A): Mean PEC Q Calculation Sediment Sampling Location N3

5(B): Mean PEC Q Calculation Sediment Sampling Location O2

5(C): Mean PEC Q Calculation Sediment Sampling Location P3

Table 5
Mean PEC Q Calculation
Summary for In-Channel N3, O2, and P3
Former Stanley Tools Facility
Fowlerville Michigan

	N3	O2	P3
PAHs			
Calculated Mean PEC-Qpah	0.468	0.317	0.024
Mean PEC-Qpah	0.463	0.237	0.011
Metals			
Mean PEC-Qmetals	0.085	0.067	**0.693**
Overall			
Mean PEC-Q overall (PAH Calculated)	0.277	0.192	0.359
Mean PEC-Q overall	0.274	0.152	0.352

Note:
<0.5 is acceptable risk
The Overall utilized PAHs and Metals since they are the only chemicals with PEC Excedances North of Grand River Avenue.

Table 5(a)
Mean PEC Q Calculation
Sediment Sampling Location N3
Former Stanley Tools Facility
Fowlerville Michigan

Mean PEC Quotient Calculations

							Location	SD-N3					
							Field ID:	N-09-SD-3A 0911425-16					
							Date Sampled:	40136					
							Data Type	Original					
	Consensed-Based Sediment Quality						Material Type	Sediment					
							Sample Event	2009	TOC = 1.2				
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL		Depth (inches):	0 - 15	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	6.9 J	6.9	5.75	201	0.029	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	93 J	93	77.5	89	0.871	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	21 J	21	17.5	128	0.137	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	**310**	310	258.334	845	0.306	1
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	**1000**	1000	833.334	1050	0.794	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	**710**	710	591.667	1450	0.409	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	1300	1300	1083.334	13400	0.081	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	**410**	410	341.667	3200	0.107	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	**480**	480	400	13400	0.03	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	**830**	830	691.667	1290	0.537	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	100 J	100	83.334	135	0.618	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	**2800**	2800	2333.334	2230	1.047	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	150	150	125	536	0.234	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	**450**	450	375	3200	0.118	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	200 J	200	166.667	561	0.298	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	**1500**	1500	1250	1170	1.069	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	**2300**	2300	1916.667	1520	1.261	1
											SUM	7.946	17
											Calculated Mean PEC-Qpah		0.468
PAHs Total	1610	12205	22800	3271				12660.9 J	12660.9	10550.75	22800	0.463	1
											Mean PEC-Qpah		0.463
Total Metals:				-					Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	2200	2200	2200			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	6.3	6.3	6.3	33	0.191	1
Barium, Total				5810	-	7440-39-3	mg/kg	23	23	23			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.13	0.13	0.13	5	0.026	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	15	15	15	110	0.137	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	11 B	11	11	150	0.074	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	7.9	7.9	7.9	130	0.061	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.014 J	0.014	0.014	1.1	0.013	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	8.5	8.5	8.5	49	0.174	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.058 J	0.058	0.058			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.031 J	0.031	0.031	2.2	0.015	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	30	30	30	460	0.066	1
Chromium(VI)				1	-	18540-29-9	mg/kg	2.4 U					
											SUM	0.757	9
											Mean PEC-Qmetals		0.085
Miscellaneous Parameters:				110									
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.14 U			Mean PEC-Q overall (PAH Calculated)		0.277
Fractional Organic Carbon					-	FOC	%	1.07			Mean PEC-Q overall		0.274
Percent moisture				0.87	-	MOIST	%	NA					
Percent Solids				-	-	SOLID	%	72					
Percent Solids				-	-	Solids	%	72					
Total Organic Carbon				-	-	TOC	%	1.2					

Note 1: 1/2 reporting limit used for non-detect samples.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Table 5(b)
Mean PEC Q Calculation
Sediment Sampling Location O2
Former Stanley Tools Facility
Fowlerville Michigan

Mean PEC Quotient Calculations

								Location	SD-O2				
								Field ID:	O-09-SD-2A 0911425-08				
								Date Sampled:	40136				
								Data Type	Original				
	Consensed-Based Sediment Quality							Material Type	Sediment				
								Sample Event	2009	TOC = 2.2			
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	Depth (inches):			0 - 15	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg		19 J	19	8.637	201	0.043	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg		160 J	160	72.728	89	0.818	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg		240 U	120	54.546	128	0.427	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg		**290***	290	131.819	845	0.156	1
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg		**770**	770	350	1050	0.334	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg		**630**	630	286.364	1450	0.198	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg		860	860	390.91	13400	0.03	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg		**370 J**	370	168.182	3200	0.053	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg		**360**	360	163.637	13400	0.013	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg		**780**	780	354.546	1290	0.275	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg		470 U	235	106.819	135	0.792	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg		**2500**	2500	1136.364	2230	0.51	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg		190 J	190	86.364	536	0.162	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg		**410 J**	410	186.364	3200	0.059	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg		330 U	165	75	561	0.134	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg		**2000**	2000	909.091	1170	0.778	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg		**2000**	2000	909.091	1520	0.599	1
												SUM	5.381	17
												Calculated Mean PEC-Qpah		**0.317**
PAHs Total	1610	12205	22800	3271					11339 J	11859	5390.4545	22800	0.237	1
												Mean PEC-Qpah		**0.237**
Total Metals:				-						Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg		2500	2500	2500			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg		4.6	4.6	4.6	33	0.14	1
Barium, Total				5810	-	7440-39-3	mg/kg		27	27	27			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg		0.086	0.086	0.086	5	0.018	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg		8.8	8.8	8.8	110	0.08	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg		5.7 B	5.7	5.7	150	0.038	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg		9.7	9.7	9.7	130	0.075	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg		0.050 U	0.025	Note 2			
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg		6.0	6	6	49	0.123	1
Selenium, Total				0.147	-	7782-49-2	mg/kg		0.14	0.14	0.14			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg		0.033 J	0.033	0.033	2.2	0.015	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg		20	20	20	460	0.044	1
Chromium(VI)				1	-	18540-29-9	mg/kg		0.36 J					
												SUM	0.533	8
												Mean PEC-Qmetals		**0.067**
Miscellaneous Parameters:				110										
Cyanide, Free				-	**0.1**	57-12-5	mg/kg		NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg		0.14 U			Mean PEC-Q overall (PAH Calculated)		**0.192**
Fractional Organic Carbon					-	FOC	%		1.81			Mean PEC-Q overall		**0.152**
Percent moisture				0.87	-	MOIST	%		NA					
Percent Solids				-	-	SOLID	%		71					
Percent Solids				-	-	Solids	%		71					
Total Organic Carbon				-	-	TOC	%		2.2					

Note 1: 1/2 reporting limit used for non-detect samples.

Note 2: Metals with very low detection limits were not used in the calculations in accordabce with the WDNR Guidance if not detected.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
es that are Bold and Underlined Exceed the Op. Memo 4 criteria.
s that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Table 5 (c)
Mean PEC Q Calculation
Sediment Sampling Location P3
Former Stanley Tools Facility
Fowlerville Michigan

Mean PEC Quotient Calculations

							Location	SD-P3					
							Field ID:	P-09-SD-3A 0911425-05					
							Date Sampled:	40136					
							Data Type	Original					
	Consensed-Based Sediment Quality						Material Type	Sediment					
							Sample Event	2009	TOC = 3.5				
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL		Depth (inches):	0 - 10	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	39 U	19.5	5.572	201	0.028	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	39 U	19.5	5.572	89	0.063	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	39 U	19.5	5.572	128	0.044	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	**39 U**	19.5	5.572	845	0.007	1
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	**8.5 J**	8.5	2.429	1050	0.003	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	**9.3 J**	9.3	2.658	1450	0.002	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	9.3 J	9.3	2.658	13400	0.001	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	**3.1 J**	3.1	0.886	3200	0.001	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	**12 J**	12	3.429	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	**11 J**	11	3.143	1290	0.003	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	77 U	38.5	11	135	0.082	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	**17 J**	17	4.858	2230	0.003	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	39 U	19.5	5.572	536	0.011	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	**77 U**	38.5	11	3200	0.004	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	580 U	290	82.858	561	0.148	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	**5.4 J**	5.4	1.543	1170	0.002	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	**16 J**	16	4.572	1520	0.004	1
											SUM	0.407	17
											Calculated Mean PEC-Qpah		**0.024**
PAHs Total	1610	12205	22800	3271				91.6 J	809.6	231.31429	22800	0.011	1
											Mean PEC-Qpah		**0.011**
Total Metals:				-					Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	3400	3400	3400			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	170	170	170	33	5.152	1
Barium, Total				5810	-	7440-39-3	mg/kg	38	38	38			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.13	0.13	0.13	5	0.026	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	8.0	8	8	110	0.073	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	5.0 B	5	5	150	0.034	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	4.3	4.3	4.3	130	0.034	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.046 U	0.023	Note 2			
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	7.1	7.1	7.1	49	0.145	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.26	0.26	0.26			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.060	0.06	0.06	2.2	0.028	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	23	23	23	460	0.05	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.53 J					
											SUM	5.542	8
											Mean PEC-Qmetals		**0.693**
Miscellaneous Parameters:				110									
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.23 U			Mean PEC-Q overall (PAH Calculated)		**0.359**
Fractional Organic Carbon					-	FOC	%	5.52			Mean PEC-Q overall		**0.352**
Percent moisture				0.87	-	MOIST	%	NA					
Percent Solids				-	-	SOLID	%	43					
Percent Solids				-	-	Solids	%	43					
Total Organic Carbon				-	-	TOC	%	3.5					

Note 1: 1/2 reporting limit used for non-detect samples.

Note 2: Metals with very low detection limits were not used in the calculations in accordabce with the WDNR Guidance if not detected.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
s that are Bold and Underlined Exceed the Op. Memo 4 criteria.
s that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

TABLE 6:

BANK ANALYTICAL RESULTS

TABLE 6
BANK ANALYTICAL RESULTS
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

								Location	A West Bank	B West Bank	C West Bank	D West Bank	E West Bank	F West Bank	G West Bank	H West Bank	I West Bank	J West Bank	K West Bank	L West Bank	M West Bank	M West Bank	N West Bank	O West Bank	P West Bank	LU East Bank	LD East Bank	N East Bank	O East Bank	P East Bank
								Field ID:	A-09-WB	B-09-WB	C-09-WB	D-09-WB	E-09-WB	F-09-WB	G-09-WB	H-09-WB	I-09-WB	J-09-WB	K-09-WB	L-09-WB	M-09-WB	M-09-WB-DUP	N-09-WB	O-09-WB	P-09-WB	LU-09-EB	LD-09-EB	N-09-EB	O-09-EB	P-09-EB
								Date Sampled:	40129	40129	40129	40130	40129	40129	40129	40129	40130	40130	40130	40130	40130	40130	10/16/2003	10/15/2003	10/15/2003	40130	40130	40130	40130	40130
								Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original
								Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Consensed-Based				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Remedial Objectives	R5 RCRA Sediment ESL	TEC	MEC	PEC	Site Specific Background	Units																						
Volatile Organic Compounds																														
1,1,1,2-Tetrachloroethane	630-20-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1,1-Trichloroethane	71-55-6	-	213				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1,2,2-Tetrachloroethane	79-34-5	-	850				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1,2-Trichloroethane	79-00-5	-	518				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1-Dichloroethane	75-34-3	-	0.575				5.8	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1-Dichloroethene	75-35-4	-	19.4				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,1-Dichloropropene	563-58-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,2,3-Trichlorobenzene	87-61-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,2,3-Trichloropropane	96-18-4	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,2,4-Trichlorobenzene	120-82-1	-	5062	8	13	18	-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,2,4-Trimethylbenzene	95-63-6	-	-				24	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,2-Dibromo-3-chloropropane	96-12-8	-	-				-	µg/kg	620 U	330 U	410 U	350 U	450 U	490 U	650 U	370 U	330 U	270 U	320 U	330 U	510 U	510 U	510 U	580 U	600 U	430 U	460 U	470 U	370 U	420 U
1,2-Dichlorobenzene	95-50-1	-	294	23	23	23	-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,2-Dichloroethane	107-06-2	-	260				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,2-Dichloroethene (Total)	540-59-0	-	-				81	µg/kg	250 U	130 U	160 U	140 U	180 U	200 U	260 U	150 U	130 U	110 U	130 U	130 U	200 U	200 U	200 U	230 U	240 U	170 U	180 U	190 U	150 U	170 U
1,2-Dichloropropane	78-87-5	-	333				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,3,5-Trimethylbenzene	108-67-8	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,3-Dichlorobenzene	541-73-1	-	1315				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,3-Dichloropropane	142-28-9	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
1,4-Dichlorobenzene	106-46-7	-	318	31	60.5	90	-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
2,2-Dichloropropane	594-20-7	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
2-Chlorotoluene	95-49-8	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
2-Hexanone	591-78-6	-	58.2				-	µg/kg	6200 U	3300 U	4100 U	3500 U	4500 U	4900 U	6500 U	3700 U	3300 U	2700 U	3200 U	3300 U	5100 U	5100 U	5100 U	5800 U	6000 U	4300 U	4600 U	4700 U	3700 U	4200 U
4-Chlorotoluene	106-43-4	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
4-Isopropyltoluene	99-87-6	-	-				23	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
4-Methyl-2-pentanone (MIBK)	108-10-1	-	25.1				-	µg/kg	6200 U	3300 U	4100 U	3500 U	4500 U	4900 U	6500 U	3700 U	3300 U	2700 U	3200 U	3300 U	5100 U	5100 U	5100 U	5800 U	6000 U	4300 U	4600 U	4700 U	3700 U	4200 U
Acetone	67-64-1	-	9.9				761	µg/kg	1800 U	980 U	1200 U	130 J	1400 U	220 J	270 J	170 J	150 J	160 J	220 J	190 J	300 J	280 J	210 J	230 J	210 J	230 J	230 J	1400 U	1100 U	1300 U
Acrolein	107-02-8	-	0.00152				-	µg/kg	620 U	330 U	410 U	350 U	450 U	490 U	650 U	370 U	330 U	270 U	320 U	330 U	510 U	510 U	510 U	580 U	600 U	430 U	460 U	470 U	370 U	420 U
Benzene	71-43-2	-	142	57	83.5	110	-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Bromobenzene	108-86-1	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Bromochloromethane	74-97-5	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Bromoform	75-25-2	-	492				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Bromomethane	74-83-9	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Carbon Disulfide	75-15-0	-	23.9				-	µg/kg	620 U	330 U	410 U	350 U	450 U	490 U	650 U	370 U	330 U	270 U	320 U	330 U	510 U	510 U	510 U	580 U	600 U	430 U	460 U	470 U	370 U	420 U
Carbon Tetrachloride	56-23-5	-	1450				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Chlorobenzene	108-90-7	-	291				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Chloroethane	75-00-3	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Chloroform	67-66-3	-	121				22	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Chloromethane	74-87-3	-	-				49.5	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
cis-1,2-Dichloroethene	156-59-2	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
cis-1,3-Dichloropropene	10061-01-5	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Dibromochloromethane	124-48-1	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Dibromomethane	74-95-3	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Dichlorobromomethane	75-27-4	-	-				-	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Ethylbenzene	100-41-4	-	175				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Ethylene dibromide	106-93-4	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Hexachlorobutadiene	87-68-3	-	26.5				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
Isopropylbenzene	98-82-8	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
2-Butanone (MEK)	78-93-3	-	42.4				517	µg/kg	96 J	61 J	75 J	88 J	77 J	82 J	120 J	81 J	73 J	69 J	77 J	70 J	100 J	81 J	85 J	120 J	100 J	87 J	77 J	83 J	66 J	93 J
Methyl tert-Butyl Ether	1634-04-4	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Methylene Chloride	75-09-2	-	159				-	µg/kg	66 J	31 J	38 J	100 J	46 J	45 J	77 J	47 J	42 J	40 J	34 J	44 J	56 J	58 J	77 J	64 J	72 J	61 J	55 J	54 J	88 J	44 J
n-Butylbenzene	104-51-8	-	-				27	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
n-Propylbenzene	103-65-1	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Naphthalene	91-20-3	-	176	176	369	561	78.7	µg/kg	620 U	6.1 J	410 U	5.8 J	450 U	490 U	650 U	370 U	330 U	270 U	320 U	330 U	34 U	510 U	510 U	580 U	600 U	430 U	460 U	470 U	370 U	420 U
Xylene, Ortho	95-47-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
sec-Butylbenzene	135-98-8	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Styrene	100-42-5	-	254				13	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
tert-Butylbenzene	98-06-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Tetrachloroethene	127-18-4	-	990				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Toluene	108-88-3	-	1220	890	1345	1800	3.2	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
trans-1,2-Dichloroethene	156-60-5	-	654				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
trans-1,3-Dichloropropene	10061-02-6	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Trichloroethene	79-01-6	-	112				11	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Trichlorofluoromethane	75-69-4	-	-				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Vinyl Chloride	75-01-4	-	202				-	µg/kg	120 U	65 U	82 U	71 U	91 U	99 U	130 U	75 U	67 U	54 U	65 U	65 U	100 U	100 U	100 U	120 U	120 U	87 U	92 U	94 U	73 U	84 U
Xylene, Meta + Para	Not Applicable	-	-				-	µg/kg	250 U	130 U	160 U	140 U	180 U	200 U	260 U	150 U	130 U	110 U	130 U	130 U	200 U	200 U	200 U	230 U	240 U	170 U	180 U	190 U	150 U	170 U

TABLE 6
BANK ANALYTICAL RESULTS
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

								Location	A West Bank	B West Bank	C West Bank	D West Bank	E West Bank	F West Bank	G West Bank	H West Bank	I West Bank	J West Bank	K West Bank	L West Bank	M West Bank	M West Bank	N West Bank	O West Bank	P West Bank	LU East Bank	LD East Bank	N East Bank	O East Bank	P East Bank
								Field ID:	A-09-WB	B-09-WB	C-09-WB	D-09-WB	E-09-WB	F-09-WB	G-09-WB	H-09-WB	I-09-WB	J-09-WB	K-09-WB	L-09-WB	M-09-WB	M-09-WB-DUP	N-09-WB	O-09-WB	P-09-WB	LU-09-EB	LD-09-EB	N-09-EB	O-09-EB	P-09-EB
								Date Sampled:	40129	40129	40129	40130	40129	40129	40129	40129	40130	40130	40130	40130	40130	40130	10/16/2003	10/15/2003	10/15/2003	40130	40130	40130	40130	40130
								Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original
								Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Consensed-Based				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Remedial Objectives	R5 RCRA Sediment ESL	TEC	MEC	PEC	Site Specific Background	Units																						
Semi-Volatile Organic Compounds																														
1,2,4-Trichlorobenzene	120-82-1	-	5062				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,2-Benzphenanthracene	218-01-9	-	-				-	µg/kg	63	54	210	240	270	140	300	170	24	5.5 J	14 J	50	86	95	110	150	120	190	73	170	210	230
1,2-Dichlorobenzene	95-50-1	-	294				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,3-Dichlorobenzene	541-73-1	-	1315				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
1,4-Dichlorobenzene	106-46-7	-	318				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
2,4,5-Trichlorophenol	95-95-4	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2,4,6-Trichlorophenol	88-06-2	-	208				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2,4-Dichlorophenol	120-83-2	-	81.7				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2,4-Dimethylphenol	105-67-9	-	304	290	290	290	-	µg/kg	820 U	430 U	590 U	470 U	600 U	660 U	870 U	500 U	440 U	360 U	430 U	430 U	680 U	680 U	680 U	770 U	860 U	580 U	610 U	620 U	490 U	560 U
2,4-Dinitrophenol	51-28-5	-	6.21				-	µg/kg	820 U	430 U	590 U	470 U	600 U	660 U	870 U	500 U	440 U	360 U	430 U	430 U	680 U	680 U	680 U	770 U	860 U	580 U	610 U	620 U	490 U	560 U
2,4-Dinitrotoluene	121-14-2	-	14.4				-	µg/kg	82 U	43 U	59 U	47 U	60 U	66 U	87 U	50 U	44 U	36 U	43 U	43 U	68 U	68 U	68 U	77 U	86 U	58 U	61 U	62 U	49 U	56 U
2,6-Dinitrotoluene	606-20-2	-	39.8				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Chloronaphthalene	91-58-7	-	417				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Chlorophenol	95-57-8	-	31.9				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Methylnaphthalene	91-57-6	-	20.2	20.2	111	201	-	µg/kg	41 U	2.6 J	30 U	3.8 J	2.4 J	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	2.9 J	1.1 J
2-Methylphenol	95-48-7	-	-	6700	6700	6700	-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Nitroaniline	88-74-4	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Nitrophenol	88-75-5	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
3,3'-Dichlorobenzidine	91-94-1	-	127				-	µg/kg	410 U	220 U	300 U	240 U	300 U	330 U	440 U	250 U	220 U	180 U	220 U	220 U	340 U	340 U	340 U	390 U	430 U	290 U	310 U	310 U	240 U	280 U
3+4-Methylphenol	108-39-4	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
3-Nitroaniline	99-09-2	-	-				-	µg/kg	82 U	43 U	59 U	47 U	60 U	66 U	87 U	50 U	44 U	36 U	43 U	43 U	68 U	68 U	68 U	77 U	86 U	58 U	61 U	62 U	49 U	56 U
4,6-Dinitro-2-methylphenol	534-52-1	-	-				-	µg/kg	160 U	87 U	120 U	94 U	120 U	130 U	170 U	100 U	89 U	72 U	87 U	87 U	140 U	140 U	140 U	160 U	170 U	120 U	120 U	120 U	98 U	110 U
4-Bromophenyl Phenyl Ether	101-55-3	-	1550				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
4-Chloroaniline	106-47-8	-	146				-	µg/kg	82 U	43 U	59 U	47 U	60 U	66 U	87 U	50 U	44 U	36 U	43 U	43 U	68 U	68 U	68 U	77 U	86 U	58 U	61 U	62 U	49 U	56 U
4-Chlorophenyl Phenyl Ether	7005-72-3	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
4-Methylphenol	106-44-5	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
2-Nitroaniline	100-01-6	-	-				-	µg/kg	160 U	87 U	120 U	94 U	120 U	130 U	170 U	100 U	89 U	72 U	87 U	87 U	140 U	140 U	140 U	160 U	170 U	120 U	120 U	120 U	98 U	110 U
2-Nitrophenol	100-02-7	-	13.3				-	µg/kg	820 U	430 U	590 U	470 U	600 U	660 U	870 U	500 U	440 U	360 U	430 U	430 U	680 U	680 U	680 U	770 U	860 U	580 U	610 U	620 U	490 U	560 U
Acenaphthene	83-32-9	-	6.71	6.7	48	89	-	µg/kg	3.3 J	5.3 J	18 J	33	37	12 J	22 J	13 J	22 U	18 U	22 U	2.6 J	3.4 J	2.8 J	6.9 J	10 J	4.3 J	7.5 J	31 U	7.5 J	7.4 J	9.0 J
Acenaphthylene	208-96-8	-	5.87	5.9	67	128	-	µg/kg	4.9 J	22 U	7.1 J	4.3 J	13 J	3.9 J	14 J	7.9 J	22 U	18 U	22 U	5.2 J	34 U	4.8 J	34 U	6.3 J	43 U	5.2 J	31 U	5.0 J	24 U	3.4 J
Anthracene	120-12-7	-	57.2	57.2	451	845	-	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	-	108	108	579	1050	303	µg/kg	110	64	350	510	520	210	360	230	13 J	3.3 J	13 J	58	58	87	90	150	85	190	69	160	230	210
Benzidine	92-87-5	-	-				-	µg/kg	1600 U	870 U	1200 U	940 U	1200 U	1300 U	1700 U	1000 U	890 U	720 U	870 U	870 U	1400 U	1400 U	1400 U	1600 U	1700 U	1200 U	1200 U	1200 U	980 U	1100 U
Benzo(a)pyrene	50-32-8	-	150	150	800	1450	332	µg/kg	63	45	190	180	240	120	260	110	21 J	18 U	13 J	49	82	63	92	140	110	130	68	180	210	200
Benzo(b)fluoranthene	205-99-2	-	10400	240	6820	13400	307	µg/kg	160	110	550	420	600	270	410	240	22	18 U	13 J	76	100	98	110	220	170	250	93	290	330	340
Benzo(g,h,i)perylene	191-24-2	-	170	170	1685	3200	160	µg/kg	77 J	34 J	200	150	120	110	150	73	44 U	36 U	11 J	40 J	64 J	61 J	61 J	71 J	81 J	87	41 J	100	120	120
Benzo(k)fluoranthene	207-08-9	-	240	240	6820	13400	270	µg/kg	89	39	170	110	220	110	180	89	17 J	18 U	6.0 J	43	57	50	92	89	82	110	42	97	120	100
Benzoic Acid	65-85-0	-	-	6500	6500	6500	320	µg/kg	820 U	430 U	590 U	470 U	600 U	660 U	870 U	500 U	440 U	360 U	430 U	430 U	680 U	680 U	680 U	770 U	860 U	580 U	610 U	620 U	490 U	560 U
Benzyl Alcohol	100-51-6	-	1.04	570	650	730	-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	180	230	340	190	250	260	240	170	360	130	140	120
Bis(2-chloroethoxy)methane	111-91-1	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Bis(2-chloroethyl) Ether	111-44-4	-	3520				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
bis(2-Chloroisopropyl)ether	108-60-1	-	-				-	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	-	182				110	µg/kg	55 J	21 J	69	36 J	45 J	32 J	36 J	56	21 J	23 J	280 B	45 B	55 JB	73 B	64 JB	67 JB	65 JB	47 JB	57 JB	63	45 J	66 B
Butyl Benzyl Phthalate	85-68-7	-	1970				-	µg/kg	26 J	43 U	59 U	47 U	60 U	66 U	87 U	50 U	6.7 J	36 U	16 J	16 J	28 J	68 U	68 U	19 J	23 J	17 J	10 J	16 J	14 J	9.6 J
Carbazole	86-74-8	-	-				-	µg/kg	820 U	430 U	590 U	470 U	600 U	660 U	870 U	500 U	440 U	360 U	430 U	430 U	680 U	680 U	680 U	770 U	860 U	580 U	610 U	620 U	490 U	560 U
Chrysene	218-01-9	-	166	166	728	1290	350	µg/kg	63	54	210	240	270	140	300	170	24	5.5 J	14 J	50	86	95	110	150	120	190	73	170	210	230
Di-n-butyl Phthalate	84-74-2	-	1114	2200	9600	17000	220	µg/kg	410 U	220 U	300 U	240 U	300 U	330 U	440 U	250 U	220 U	180 U	40 J	56 J	96 J	71 J	340 U	94 J	430 U	94 J	310 U	310 U	240 U	280 U
Di-n-octyl Phthalate	117-84-0	-	40600	580	22790	45000	-	µg/kg	41 U	22 U	27 J	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Dibenz(a,h)anthracene	53-70-3	-	33	33	84	135	-	µg/kg	26 J	20 J	37 J	40 J	50 J	21 J	70 J	50 U	44 U	36 U	43 U	43 U	23 J	68 U	30 J	55 J	86 U	45 J	61 U	29 J	28 J	30 J
Dibenzofuran	132-64-9	-	449	150	365	580	-	µg/kg	41 U	22 U	30 U	15 J	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Diethyl Phthalate	84-66-2	-	295	610	855	1100	-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Dimethyl Phthalate	131-11-3	-	-	530	530	530	-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Fluoranthene	206-44-0	-	423	423	1327	2230	631	µg/kg	170	120	1200	720	740	320	670	430	38	5.1 J	19 J	86	100	130	170	300	190	360	88	350	370	420
Fluorene	86-73-7	-	77.4	77.4	307	536	-	µg/kg	41 U	22 U	25 J	37	38	33 U	23 J	13 J	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	17 J	15 J
Hexachlorobenzene	118-74-1	-	20				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Hexachlorobutadiene	87-68-3	-	26.5				-	µg/kg	41 U	65 U	82 U	71 U	91 U	99 U	44 U	75 U	67 U	54 U	65 U	65 U	34 U	34 U	34 U	39 U	43 U	87 U	92 U	94 U	73 U	84 U
Hexachlorocyclopentadiene	77-47-4	-	901				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Hexachloroethane	67-72-1	-	584				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Indeno(1,2,3-cd)pyrene	193-39-5	-	200	200	1700	3200	160	µg/kg	53 J	58	160	110	190	87	140	70	44 U	36 U	6.0 J	32 J	63 J	49 J	51 J	81	68 J	74	38 J	98	110	110
Isophorone	78-59-1	-	432				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
N-Nitroso-di-n-propylamine	621-64-7	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
N-Nitroso-diphenylamine	86-30-6	-	-				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
phthalene	91-20-3	-	176	176	369	561	78.7	µg/kg	620 U	6.1 J	410 U	5.8 J	450 U	490 U	650 U	370 U	330 U	270 U	320 U	330 U	34 U	510 U	510 U	580 U	600 U	430 U	460 U	470 U	370 U	420 U
Nitrobenzene	98-95-3	-	145				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
p-Chloro-m-cresol	59-50-7	-	388				-	µg/kg	41 U	22 U	30 U	24 U	30 U	33 U	44 U	25 U	22 U	18 U	22 U	22 U	34 U	34 U	34 U	39 U	43 U	29 U	31 U	31 U	24 U	28 U
Pentachlorophenol	87-86-5	-	23000	150	175	200	-	µg/kg	410 U	220 U	300 U	240 U	300 U	330 U	440 U	250 U	220 U	180 U	220 U	220 U	340 U	340 U	340 U	390 U	430 U	290 U	310 U	310 U	240 U	280 U
Phenanthrene	85-01-8	-	204	204	687	1170	240	µg/kg	60	59	340	490	410	180	310	200	12 J	3.7 J	9.1 J	68	48	49	100	170	89	180	52	200	250	280
Phenol	108-95-2	-	49.1	4200	8100	12000	-	µg/kg	410 U	220 U	300 U	240 U	300 U	330 U	440 U	250 U	220 U	180 U	220 U	220 U	340 U	340 U	340 U	390 U	430 U	290 U	310 U	310 U	240 U	280 U
Pyrene	129-00-0	-	195	195	858	1520	518	µg/kg	170	140	1100	760	780	410	670	480	40	5.8 J	25	110	130	200	220	300	180	310	130	340	450	460

TABLE 6
BANK ANALYTICAL RESULTS
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Consensed-Based																								
								Location	A West Bank	B West Bank	C West Bank	D West Bank	E West Bank	F West Bank	G West Bank	H West Bank	I West Bank	J West Bank	K West Bank	L West Bank	M West Bank	M West Bank	N West Bank	O West Bank	P West Bank	LU East Bank	LD East Bank	N East Bank	O East Bank	P East Bank
								Field ID:	A-09-WB	B-09-WB	C-09-WB	D-09-WB	E-09-WB	F-09-WB	G-09-WB	H-09-WB	I-09-WB	J-09-WB	K-09-WB	L-09-WB	M-09-WB	M-09-WB-DUP	N-09-WB	O-09-WB	P-09-WB	LU-09-EB	LD-09-EB	N-09-EB	O-09-EB	P-09-EB
								Date Sampled:	40129	40129	40129	40130	40129	40129	40129	40129	40130	40130	40130	40130	40130	40130	10/16/2003	10/15/2003	10/15/2003	40130	40130	40130	40130	40130
								Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original	Original
								Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
								Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Remedial Objectives	R5 RCRA Sediment ESL	TEC	MEC	PEC	Site Specific Background	Units																						
PCBs																														
PCB Total	TPCB	-	59.8	60	368	676		µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	12674-11-2	-	59.8					µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	490 U	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	600 U	620 U	480 U	550 U
PCB-1221	11104-28-2	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	490 U	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	600 U	620 U	480 U	550 U
PCB-1232	11141-16-5	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	490 U	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	600 U	620 U	480 U	550 U
PCB-1242	53469-21-9	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	490 U	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	600 U	620 U	480 U	550 U
PCB-1248	12672-29-6	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	31 J	440 U	360 U	430 U	18 J	670 U	14 J	21 J	24 J	850 U	21 J	34 J	31 J	38 J	12 J
PCB-1254	11097-69-1	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	490 U	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	600 U	620 U	480 U	550 U
PCB-1260	11096-82-5	-	59.8				-	µg/kg	810 U	430 U	590 U	470 U	600 U	650 U	860 U	17 J	440 U	360 U	430 U	430 U	670 U	680 U	680 U	770 U	850 U	570 U	22 J	620 U	8.1 J	550 U
Total Metals																														
Aluminum, Total	7429-90-5	-	-				5810	mg/kg	11000	5900	4600	2700	3900	5900	8600	5500	5800	1800	6500	4000	9100	9300	6300	7100	9600	7900	9900	7500	6500	5700
Arsenic, Total	7440-38-2	-	9.79	9.8	21.4	33	36.6	mg/kg	37	12	16	10	21	22	28	15	9.7	2.8	7.3	9.9	33	33	20	19	33	26	30	26	14	22
Barium, Total	7440-39-3	-	-				163	mg/kg	290	61	95	73	120	150	200	94	48	14	69	65	280	270	150	170	240	170	210	180	96	84
Cadmium, Total	7440-43-9	-	0.99	0.99	3	5	1.85	mg/kg	0.81	0.23	0.32	0.20	0.40	0.47	0.63	0.34	0.24	0.080	0.38	0.36	0.85	0.87	0.57	0.68	0.76	0.63	0.70	0.83	0.47	0.37
Chromium, Total	7440-47-3	110	43.4	43	76.5	110	15.4	mg/kg	21	12	8.1	7.1	12	13	18	60	19	4.6	30	150	46	46	150	110	46	82	210	370	210	100
Copper, Total	7440-50-8	91	31.6	32	91	150	25.9	mg/kg	25	11	9.4	7.9	14	15	21	45	14	6.4	21	92	45	46	120	92	38	48	220	160	110	62
Lead, Total	7439-92-1	83	35.8	36	83	130	21.6	mg/kg	20	9.5	7.6	6.8	11	11	15	16	10	3.0	10	20	24	24	30	29	24	19	33	61	31	20
Mercury, Total	7439-97-6	-	0.174	0.18	0.64	1.1	0.147	mg/kg	0.093	0.037 J	0.046 J	0.031 J	0.061	0.077	0.10	0.13	0.039 J	0.050 U	0.071	0.093	0.12	0.12	0.10	0.11	0.10	0.12	0.15	0.18	0.15	0.073
Nickel, Total	7440-02-0	49	22.7	23	36	49	15.5	mg/kg	21	14	8.2	7.1	11	13	16	25	12	5.6	13	37	42	44	75	47	27	26	130	70	41	27
Selenium, Total	7782-49-2	-	-				2.32	mg/kg	1.2	0.29	0.57	0.32	0.73	0.70	0.95	0.54	0.35	0.24	0.64	0.45	1.2	1.2	0.85	0.90	1.1	0.92	1.2	0.97	0.59	0.54
Silver, Total	7440-22-4	-	0.5	1.6	1.9	2.2	1	mg/kg	0.10	0.059	0.045 J	0.027 J	0.049 J	0.059	0.077	0.054	0.044 J	0.028 J	0.077	0.063	0.099	0.10	0.080	0.097	0.095	0.081	0.11	0.13	0.094	0.067
Zinc, Total	7440-66-6	460	121	120	290	460	110	mg/kg	140	63	58	49	68	77	100	130	59	17	44	170	180	190	240	180	130	140	420	260	180	110
Chromium, Hexavalent	18540-29-9	-	-				-	mg/kg	9.9 U	2.6 U	3.3 U	2.6 U	3.6 U	3.7 U	5.2 U	3.0 U	2.7 U	2.2 U	2.6 U	0.33 J	3.7 U	4.1 U	4.1 U	4.6 U	4.5 U	3.5 U	3.3 U	3.4 U	2.9 U	0.90 J
Misc																														
Cyanide, Available	57-12-5	-	0.1				-	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.70	2.5	2.4	NA	NA	3.3	2.6	1.2	1.4	0.67	1.7
Cyanide, Total	57-12-5	-	0.1				0.87	mg/kg	0.25 U	0.13 U	0.18 U	0.14 U	0.18 U	0.20 U	0.23 J	0.15 U	0.13 U	0.11 U	0.13 U	0.15	0.44	0.39	0.18 J	0.23 U	0.36	0.22	0.36	0.64	0.19	0.35

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
- Inidcates that the result was not detected above the Method Detection Limit (MDL).
- Indicates an estimated
value with the result detection
B - Indicates that that compound was also detected in a Blank.
Values that are Bold and Underlined Exceed the Remedial Objectives, or PEC
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.
Transects proposed for in-channel removal (A-H, LD-M)

TABLE 7:

BANK SWAC ANALYSIS SUMMARY

T E 7
BANK SWAC A YSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

BANK SWAC ANALYSIS SUMMARY					Transects A through M			Transects N through P			Transects A through P		
					Bank SWAC			Bank SWAC			Bank SWAC		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg			6.97	NA	NA	8.67	NA	NA	7.51	NA	NA
1,1,1-Trichloroethane	71-55-6	ug/kg		**213**	12.21	NA	No	15.03	NA	No	13.11	NA	No
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg		**850**	10.99	NA	No	13.53	NA	No	11.80	NA	No
1,1,2-Trichloroethane	79-00-5	ug/kg		**518**	19.48	NA	No	24.25	NA	No	21.00	NA	No
1,1-Dichloroethane	75-34-3	ug/kg		**0.575**	9.49	NA	Yes *U	11.81	NA	Yes *U	10.23	NA	Yes *U
1,1-Dichloroethene	75-35-4	ug/kg		**19.4**	11.27	NA	No	13.94	NA	No	12.12	NA	No
1,1-Dichloropropene	563-58-6	ug/kg			12.75	NA	NA	15.63	NA	NA	13.66	NA	NA
1,2,3-Trichlorobenzene	87-61-6	ug/kg			8.03	NA	NA	9.90	NA	NA	8.63	NA	NA
1,2,3-Trichloropropane	96-18-4	ug/kg			16.97	NA	NA	21.03	NA	NA	18.26	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ug/kg		**5062**	3.69	NA	No	5.48	NA	No	4.26	NA	No
1,2,4-Trimethylbenzene	95-63-6	ug/kg			11.27	NA	NA	13.94	NA	NA	12.12	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg			13.68	NA	NA	16.94	NA	NA	14.72	NA	NA
1,2-Dichlorobenzene	95-50-1	ug/kg		**294**	8.80	NA	No	9.38	NA	No	8.98	NA	No
1,2-Dichloroethane	107-06-2	ug/kg		**260**	6.71	NA	No	8.37	NA	No	7.24	NA	No
1,2-Dichloroethene (Total)	540-59-0	ug/kg			21.25	NA	NA	26.38	NA	NA	22.89	NA	NA
1,2-Dichloropropane	78-87-5	ug/kg		**333**	8.41	NA	No	10.40	NA	No	9.04	NA	No
1,3,5-Trimethylbenzene	108-67-8	ug/kg			9.95	NA	NA	12.35	NA	NA	10.72	NA	NA
1,3-Dichlorobenzene	541-73-1	ug/kg		**1315**	10.69	NA	No	13.13	NA	No	11.46	NA	No
1,3-Dichloropropane	142-28-9	ug/kg			6.33	NA	NA	7.85	NA	NA	6.82	NA	NA
1,4-Dichlorobenzene	106-46-7	ug/kg		**318**	10.63	NA	No	13.03	NA	No	11.40	NA	No
2,2-Dichloropropane	594-20-7	ug/kg			11.01	NA	NA	13.63	NA	NA	11.84	NA	NA
2-Chlorotoluene	95-49-8	ug/kg			10.69	NA	NA	13.13	NA	NA	11.46	NA	NA
2-Hexanone	591-78-6	ug/kg		**58.2**	20.48	NA	No	25.38	NA	No	22.04	NA	No
4-Chlorotoluene	106-43-4	ug/kg			11.05	NA	NA	13.85	NA	NA	11.94	NA	NA
4-Isopropyltoluene	99-87-6	ug/kg			11.51	NA	NA	14.35	NA	NA	12.41	NA	NA
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg		**25.1**	18.71	NA	No	23.16	NA	No	20.12	NA	No
Acetone	67-64-1	ug/kg		**9.9**	190.09	NA	Yes	124.85	NA	Yes	169.31	NA	Yes
Acrolein	107-02-8	ug/kg		**0.00152**	38.32	NA	Yes *U	47.22	NA	Yes *U	41.15	NA	Yes *U
Benzene	71-43-2	ug/kg		**142**	11.19	NA	No	13.85	NA	No	12.04	NA	No
Bromobenzene	108-86-1	ug/kg			8.67	NA	NA	10.85	NA	NA	9.37	NA	NA
Bromochloromethane	74-97-5	ug/kg			8.63	NA	NA	10.76	NA	NA	9.31	NA	NA
Bromoform	75-25-2	ug/kg		**492**	19.48	NA	No	24.25	NA	No	21.00	NA	No
Bromomethane	74-83-9	ug/kg			24.00	NA	NA	29.62	NA	NA	25.79	NA	NA
Carbon Disulfide	75-15-0	ug/kg		**23.9**	11.01	NA	No	13.63	NA	No	11.84	NA	No
Carbon Tetrachloride	56-23-5	ug/kg		**1450**	8.63	NA	No	10.76	NA	No	9.31	NA	No
Chlorobenzene	108-90-7	ug/kg		**291**	8.82	NA	No	10.85	NA	No	9.46	NA	No
Chloroethane	75-00-3	ug/kg			17.56	NA	NA	21.75	NA	NA	18.90	NA	NA
Chloroform	67-66-3	ug/kg		**121**	8.89	NA	No	10.90	NA	No	9.53	NA	No
Chloromethane	74-87-3	ug/kg			11.63	NA	NA	14.53	NA	NA	12.55	NA	NA
cis-1,2-Dichloroethene	156-59-2	ug/kg			8.27	NA	NA	10.35	NA	NA	8.93	NA	NA
cis-1,3-Dichloropropene	10061-01-5	ug/kg			7.18	NA	NA	8.81	NA	NA	7.70	NA	NA
Dibromochloromethane	124-48-1	ug/kg			19.48	NA	NA	24.25	NA	NA	21.00	NA	NA

T[illegible]E 7
BANK SWAC A[illegible]YSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

BANK SWAC ANALYSIS SUMMARY					Transects A through M			Transects N through P			Transects A through P		
					Bank SWAC			Bank SWAC			Bank SWAC		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
Dibromomethane	74-95-3	ug/kg			8.25	NA	NA	10.25	NA	NA	8.89	NA	NA
Dichlorobromomethane	75-27-4	ug/kg			0.00	NA	NA	0.00	NA	NA	0.00	NA	NA
Dichlorodifluoromethane	75-71-8	ug/kg			7.32	NA	NA	9.22	NA	NA	7.92	NA	NA
Ethylbenzene	100-41-4	ug/kg		**175**	11.71	NA	No	14.53	NA	No	12.61	NA	No
Ethylene dibromide	106-93-4	ug/kg			7.21	NA	NA	8.81	NA	NA	7.72	NA	NA
Hexachlorobutadiene	87-68-3	ug/kg		**26.5**	2.70	NA	No	3.35	NA	No	2.90	NA	No
Isopropylbenzene	98-82-8	ug/kg			10.85	NA	NA	13.35	NA	NA	11.65	NA	NA
2-Butanone (MEK)	78-93-3	ug/kg		**42.4**	80.57	NA	Yes	86.99	NA	Yes	82.62	NA	Yes
Methyl tert-Butyl Ether	1634-04-4	ug/kg			5.40	NA	NA	6.72	NA	NA	5.82	NA	NA
Methylene Chloride	75-09-2	ug/kg		**159**	49.54	NA	No	64.06	NA	No	54.16	NA	No
n-Butylbenzene	104-51-8	ug/kg			10.77	NA	NA	13.35	NA	NA	11.59	NA	NA
n-Propylbenzene	103-65-1	ug/kg			12.21	NA	NA	15.03	NA	NA	13.11	NA	NA
Naphthalene	91-20-3	ug/kg		**176**	15.62	NA	No	20.07	NA	No	17.04	NA	No
Xylene, Ortho	95-47-6	ug/kg			10.77	NA	NA	13.35	NA	NA	11.59	NA	NA
sec-Butylbenzene	135-98-8	ug/kg			12.13	NA	NA	15.03	NA	NA	13.05	NA	NA
Styrene	100-42-5	ug/kg		**254**	7.32	NA	No	9.17	NA	No	7.91	NA	No
tert-Butylbenzene	98-06-6	ug/kg			11.41	NA	NA	14.03	NA	NA	12.25	NA	NA
Tetrachloroethene	127-18-4	ug/kg		**990**	15.12	NA	No	18.66	NA	No	16.25	NA	No
Toluene	108-88-3	ug/kg		**1220**	11.41	NA	No	14.03	NA	No	12.25	NA	No
trans-1,2-Dichloroethene	156-60-5	ug/kg		**654**	12.99	NA	No	16.07	NA	No	13.97	NA	No
trans-1,3-Dichloropropene	10061-02-6	ug/kg			5.42	NA	NA	6.72	NA	NA	5.84	NA	NA
Trichloroethene	79-01-6	ug/kg		**112**	13.70	NA	No	17.03	NA	No	14.76	NA	No
Trichlorofluoromethane	75-69-4	ug/kg			12.15	NA	NA	15.03	NA	NA	13.07	NA	NA
Vinyl Chloride	75-01-4	ug/kg		**202**	9.49	NA	No	11.81	NA	No	10.23	NA	No
Xylene, Meta + Para	Not Applicable	ug/kg			22.56	NA	NA	27.88	NA	NA	24.25	NA	NA
SVOCS													
1,2,4-Trichlorobenzene	120-82-1	ug/kg		**5062**	3.69	NA	No	5.48	NA	No	4.26	NA	No
1,2-Benzphenanthracene	218-01-9	ug/kg			90.99	NA	NA	160.92	NA	NA	113.26	NA	NA
1,2-Dichlorobenzene	95-50-1	ug/kg		**294**	8.80	NA	No	9.38	NA	No	8.98	NA	No
1,3-Dichlorobenzene	541-73-1	ug/kg		**1315**	10.69	NA	No	13.13	NA	No	11.46	NA	No
1,4-Dichlorobenzene	106-46-7	ug/kg		**318**	10.63	NA	No	13.03	NA	No	11.40	NA	No
2,4,5-Trichlorophenol	95-95-4	ug/kg			1.93	NA	NA	2.40	NA	NA	2.08	NA	NA
2,4,6-Trichlorophenol	88-06-2	ug/kg		**208**	1.60	NA	No	1.99	NA	No	1.73	NA	No
2,4-Dichlorophenol	120-83-2	ug/kg		**81.7**	2.65	NA	No	3.30	NA	No	2.86	NA	No
2,4-Dimethylphenol	105-67-9	ug/kg		**304**	1.17	NA	No	1.47	NA	No	1.26	NA	No
2,4-Dinitrophenol	51-28-5	ug/kg		**6.21**	82.79	NA	Yes *U	103.59	NA	Yes *U	89.41	NA	Yes *U
2,4-Dinitrotoluene	121-14-2	ug/kg		**14.4**	14.70	NA	Yes *U	18.43	NA	Yes *U	15.89	NA	Yes *U
2,6-Dinitrotoluene	606-20-2	ug/kg		**39.8**	1.79	NA	No	2.24	NA	No	1.93	NA	No
2-Chloronaphthalene	91-58-7	ug/kg		**417**	1.70	NA	No	2.12	NA	No	1.84	NA	No
2-Chlorophenol	95-57-8	ug/kg		**31.9**	2.95	NA	No	3.66	NA	No	3.18	NA	No
2-Methylnaphthalene	91-57-6	ug/kg		**20.2**	0.62	NA	No	0.79	NA	No	0.67	NA	No
2-Methylphenol	95-48-7	ug/kg			3.72	NA	NA	4.64	NA	NA	4.01	NA	NA
2-Nitroaniline	88-74-4	ug/kg			5.61	NA	NA	6.86	NA	NA	6.01	NA	NA

T E 7
BANK SWAC A LYSIS SUMMARY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

BANK SWAC ANALYSIS SUMMARY					Transects A through M			Transects N through P			Transects A through P		
					Bank SWAC			Bank SWAC			Bank SWAC		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
2-Nitrophenol	88-75-5	ug/kg			5.20	NA	NA	6.40	NA	NA	5.59	NA	NA
3,3´-Dichlorobenzidine	91-94-1	ug/kg		127	21.78	NA	No	27.23	NA	No	23.52	NA	No
3+4-Methylphenol	108-39-4	ug/kg			3.49	NA	NA	4.30	NA	NA	3.75	NA	NA
3-Nitroaniline	99-09-2	ug/kg			5.61	NA	NA	6.86	NA	NA	6.01	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg			15.88	NA	NA	19.92	NA	NA	17.17	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	ug/kg		1550	1.17	NA	No	1.47	NA	No	1.26	NA	No
4-Chloroaniline	106-47-8	ug/kg		146	5.52	NA	No	6.77	NA	No	5.92	NA	No
4-Chlorophenyl Phenyl Ether	7005-72-3	ug/kg			2.63	NA	NA	3.29	NA	NA	2.84	NA	NA
4-Methylphenol	106-44-5	ug/kg			3.49	NA	NA	4.30	NA	NA	3.75	NA	NA
4-Nitroaniline	100-01-6	ug/kg			1.25	NA	NA	1.56	NA	NA	1.35	NA	NA
4-Nitrophenol	100-02-7	ug/kg		13.3	103.79	NA	Yes *U	129.51	NA	Yes *U	111.98	NA	Yes *U
Acenaphthene	83-32-9	ug/kg		6.71	6.42	NA	No	7.36	NA	Yes	6.72	NA	Yes
Acenaphthylene	208-96-8	ug/kg		5.87	3.98	NA	No	3.65	NA	No	3.87	NA	No
Anthracene	120-12-7	ug/kg		57.2	0.00	NA	No	0.00	NA	No	0.00	NA	No
Benzo(a)anthracene	56-55-3	ug/kg		108	118.83	NA	Yes	149.89	NA	Yes	128.72	NA	Yes
Benzidine	92-87-5	ug/kg			130.19	NA	NA	162.26	NA	NA	140.40	NA	NA
Benzo(a)pyrene	50-32-8	ug/kg		150	73.90	NA	No	157.87	NA	Yes	100.65	NA	No
Benzo(b)fluoranthene	205-99-2	ug/kg		10400	138.00	NA	No	246.39	NA	No	172.52	NA	No
Benzo(g,h,i)perylene	191-24-2	ug/kg		170	50.83	NA	No	92.11	NA	No	63.98	NA	No
Benzo(k)fluoranthene	207-08-9	ug/kg		240	57.00	NA	No	96.66	NA	No	69.63	NA	No
Benzoic Acid	65-85-0	ug/kg			100.84	NA	NA	125.44	NA	NA	108.68	NA	NA
Benzyl Alcohol	100-51-6	ug/kg		1.04	123.03	NA	Yes	174.84	NA	Yes	139.53	NA	Yes
Bis(2-chloroethoxy)methane	111-91-1	ug/kg			0.99	NA	NA	1.21	NA	NA	1.06	NA	NA
Bis(2-chloroethyl) Ether	111-44-4	ug/kg		3520	1.46	NA	No	1.82	NA	No	1.57	NA	No
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg			0.00	NA	NA	0.00	NA	NA	0.00	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	ug/kg		182	60.70	NA	No	61.92	NA	No	61.09	NA	No
Butyl Benzyl Phthalate	85-68-7	ug/kg		1970	11.16	NA	No	14.22	NA	No	12.14	NA	No
Carbazole	86-74-8	ug/kg			65.57	NA	NA	82.29	NA	NA	70.89	NA	NA
Chrysene	218-01-9	ug/kg		166	90.99	NA	No	160.92	NA	No	113.26	NA	No
Di-n-butyl Phthalate	84-74-2	ug/kg		1114	38.47	NA	No	29.48	NA	No	35.60	NA	No
Di-n-octyl Phthalate	117-84-0	ug/kg		40600	4.81	NA	No	5.22	NA	No	4.94	NA	No
Dibenz(a,h)anthracene	53-70-3	ug/kg		33	16.37	NA	No	29.29	NA	No	20.48	NA	No
Dibenzofuran	132-64-9	ug/kg		449	7.20	NA	No	8.51	NA	No	7.62	NA	No
Diethyl Phthalate	84-66-2	ug/kg		295	2.72	NA	No	3.40	NA	No	2.94	NA	No
Dimethyl Phthalate	131-11-3	ug/kg			0.68	NA	NA	0.85	NA	NA	0.73	NA	NA
Fluoranthene	206-44-0	ug/kg		423	211.78	NA	No	303.10	NA	No	240.87	NA	No
Fluorene	86-73-7	ug/kg		77.4	9.31	NA	No	8.79	NA	No	9.15	NA	No
Hexachlorobenzene	118-74-1	ug/kg		20	3.34	NA	No	4.18	NA	No	3.61	NA	No
Hexachlorobutadiene	87-68-3	ug/kg		26.5	2.70	NA	No	3.35	NA	No	2.90	NA	No
Hexachlorocyclopentadiene	77-47-4	ug/kg		901	1.58	NA	No	1.97	NA	No	1.70	NA	No
Hexachloroethane	67-72-1	ug/kg		584	1.94	NA	No	2.41	NA	No	2.09	NA	No
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg		200	48.36	NA	No	86.95	NA	No	60.65	NA	No
Isophorone	78-59-1	ug/kg		432	4.87	NA	No	6.15	NA	No	5.28	NA	No

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					Bank SWAC			Bank SWAC			Bank SWAC		
			Remedial Objectives	R5 RCRA Sediment ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL	SWAC VALUES	SWAC Value Exceeds RO	SWAC Value Exceeds R5 Sed ESL
N-Nitroso-di-n-propylamine	621-64-7	ug/kg			4.36	NA	NA	5.35	NA	NA	4.68	NA	NA
N-Nitroso-diphenylamine	86-30-6	ug/kg			7.68	NA	NA	9.46	NA	NA	8.25	NA	NA
Naphthalene	91-20-3	ug/kg		**176**	15.62	NA	No	20.07	NA	No	17.04	NA	No
Nitrobenzene	98-95-3	ug/kg		**145**	4.07	NA	No	5.05	NA	No	4.38	NA	No
p-Chloro-m-cresol	59-50-7	ug/kg		**388**	2.59	NA	No	3.23	NA	No	2.79	NA	No
Pentachlorophenol	87-86-5	ug/kg		**23000**	34.65	NA	No	42.91	NA	No	37.28	NA	No
Phenanthrene	85-01-8	ug/kg		**204**	102.07	NA	No	178.89	NA	No	126.54	NA	No
Phenol	108-95-2	ug/kg		**49.1**	35.12	NA	No	43.87	NA	No	37.91	NA	No
PNAs Total	TPNA	ug/kg			0.00	NA	NA	0.00	NA	NA	0.00	NA	NA
Pyrene	129-00-0	ug/kg		**195**	232.00	NA	Yes	318.96	NA	Yes	259.70	NA	Yes
PCBs													
PCB Total	TPCB	ug/kg		**59.8**	40.24	NA	No	57.43	NA	No	45.71	NA	No
Total Metals													
Aluminum, Total	7429-90-5	mg/kg			5934.62	NA	NA	7215.42	NA	NA	6342.56	NA	NA
Arsenic, Total	7440-38-2	mg/kg		**9.79**	16.64	NA	Yes	23.39	NA	Yes	18.79	NA	Yes
Barium, Total	7440-39-3	mg/kg			117.76	NA	NA	163.24	NA	NA	132.25	NA	NA
Cadmium, Total	7440-43-9	mg/kg		**0.99**	0.43	NA	No	0.69	NA	No	0.51	NA	No
Chromium, Total	7440-47-3	mg/kg	**110**	**43.4**	54.42	No	Yes	235.90	Yes	Yes	112.22	Yes	Yes
Copper, Total	7440-50-8	mg/kg	**91**	**31.6**	46.23	No	Yes	121.37	Yes	Yes	70.16	No	Yes
Lead, Total	7439-92-1	mg/kg	**83**	**35.8**	15.00	No	No	42.33	No	Yes	23.71	No	No
Mercury, Total	7439-97-6	mg/kg		**0.174**	0.08	NA	No	0.14	NA	No	0.10	NA	No
Nickel, Total	7440-02-0	mg/kg	**49**	**22.7**	29.61	No	Yes	58.12	Yes	Yes	38.69	No	Yes
Selenium, Total	7782-49-2	mg/kg			0.65	NA	NA	0.88	NA	NA	0.73	NA	NA
Silver, Total	7440-22-4	mg/kg		**0.5**	0.06	NA	No	0.10	NA	No	0.07	NA	No
Zinc, Total	7440-66-6	mg/kg	**460**	**121**	123.67	No	Yes	216.05	No	Yes	153.10	No	Yes
Chromium, Hexavalent	18540-29-9	mg/kg			0.14	NA	NA	0.20	NA	NA	0.16	NA	NA
Misc													
Cyanide, Available	57-12-5	mg/kg		**0.1**	0.65	NA	Yes	1.16	NA	Yes	0.81	NA	Yes
Cyanide, Total	57-12-5	mg/kg		**0.1**	0.15	NA	Yes	0.41	NA	Yes	0.23	NA	Yes

*U - All Values are "U" valuesIndicating th result was not detected above the method detection limit.
Values that are Bold and Highlighted Indicate an exceedance of the specified criteria

TABLE 8:

MEAN PEC Q CALCULATION SUMMARY FOR BANK LOCATIONS A WEST BANK, LD EAST BANK, L WEST BANK, N WEST BANK, N EAST BANK, O WEST BANK, O EAST BANK, P WEST BANK, P EAST BANK

8(A): Mean PEC Q Calculation A West Bank

8(B): Mean PEC Q Calculation Ld East Bank

8(C): Mean PEC Q Calculation L West Bank

8(D): Mean PEC Q Calculation N West Bank

8(E): Mean PEC Q Calculation N East Bank

8(F): Mean PEC Q Calculation O West Bank

8(G): Mean PEC Q Calculation O East Bank

8(H): Mean PEC Q Calculation P West Bank

8(I): Mean Pec Q Calculation P East Bank

Table 8
Mean PEC Q Calculation
Summary for Bank Locations
A West Bank, LD East Bank, L West Bank, N West Bank, N East Bank, O West Bank, O East Bank, P West Bank, P East Bank
Former Stanley Tools Facility
Fowlerville Michigan

	A-09-WB	LD-09-EB	L-09-WB	N-09-WB	N-09-EB	O-09-WB	O-09-EB	P-09-WB	P-09-EB
PAHs									
Calculated Mean PEC-Qpah	0.006	0.04	0.019	0.017	0.019	0.029	0.041	0.012	0.032
Mean PEC-Qpah	0.004	0.008	0.004	0.003	0.002	0.004	0.003	0.002	0.003
Metals									
Mean PEC-Qmetals	0.296	**0.937**	0.416	**0.589**	**0.897**	0.450	**0.534**	0.331	0.345
Overall									
Mean PEC-Q overall (PAH Calculated)	0.151	0.4885	0.2175	0.303	0.458	0.2395	0.2875	0.1715	0.1885
Mean PEC-Q overall	0.15	0.4725	0.21	0.296	0.4495	0.227	0.2685	0.1665	0.174

Note:
<0.5 is acceptable risk
The Overall utilized PAHs and Metals since they are
the only chemicals with PEC Excedances
WB - West Bank
EB - East Bank

Table 8(a)
Mean PEC Q Calculation
A West Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	A West Bank	A West Bank			
								Field ID:	A-09-WB	Mean PEC Quotient Calculations			
								Date Sampled:	40129				
								Data Type	Original				
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil				
								Sample Event	2009	Total Organic Carbon	16	%	
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	41 U		20.50	1.281	201	0.006	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	3.3 J		3.30	0.206	89	0.002	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	4.9 J		4.90	0.306	128	0.002	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA		0.00				
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	**110**		110.00	6.875	1050	0.007	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	63		63.00	3.938	1450	0.003	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	160		160.00	10	13400	0.001	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	77 J		77.00	4.813	3200	0.002	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	89		89.00	5.563	13400	0	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	63		63.00	3.938	1290	0.003	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	26 J		26.00	1.625	135	0.012	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	170		170.00	10.625	2230	0.005	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	41 U		20.50	1.281	536	0.002	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	53 J		53.00	3.313	3200	0.001	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	620 U		310.00	19.375	561	0.035	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	60		60.00	3.75	1170	0.003	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	170		170.00	10.625	1520	0.007	1
												SUM	0.091	16
												Calculated Mean PEC-Qpah		**0.006**
PAHs Total	1610	12205	22800	3349.7				1400.2		1400.20	87.5125	22800	0.004	1
												Mean PEC-Qpah		**0.004**
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	11000		11000	11000			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	**37**		37	37	33	1.121	1
Barium, Total				5810	-	7440-39-3	mg/kg	290		290	290			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.81		0.81	0.81	5	0.162	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	21		21	21	110	0.191	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	25		25	25	150	0.167	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	20		20	20	130	0.154	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.093		0.093	0.093	1.1	0.085	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	21		21	21	49	0.429	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	1.2		1.2	1.2			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.10		0.1	0.1	2.2	0.045	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	**140**		140	140	460	0.304	1
Chromium(VI)				1	-	18540-29-9	mg/kg	9.9 U		4.95	4.95			
												SUM	2.658	9
Miscellaneous Parameters:												Mean PEC-Qmetals		**0.296**
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.25 U						
Total Organic Carbon				-	-	TOC	%	16				Mean PEC-Q overall (PAH Calculated)		**0.151**
												Mean PEC-Q overall		**0.15**

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(b)
Mean PEC Q Calculation
LD East Bank
Former Stanley Tools Facility
Fowlerville Michigan

							Location	LD East Bank	LD East Bank				
							Field ID:	LD-09-EB	Mean PEC Quotient Calculations				
							Date Sampled:	40130					
							Data Type	Original					
	Consensed-Based Sediment Quality Guidelines						Material Type	Soil					
							Sample Event	2009	Total Organic Carbon	2.2	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units		Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	31 U	15.50	7.045	201	0.035	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	31 U	15.50	7.045	89	0.079	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	31 U	15.50	7.045	128	0.055	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA					
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	69	69	31.364	1050	0.03	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	68	68	30.909	1450	0.021	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	93	93	42.273	13400	0.003	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	41 J	41.00	18.636	3200	0.006	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	42	42	19.091	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	73	73	33.182	1290	0.026	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	61 U	30.50	13.864	135	0.103	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	88	88	40	2230	0.018	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	31 U	15.50	7.045	536	0.013	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	38 J	38.00	17.273	3200	0.005	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	460 U	230.00	104.545	561	0.186	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	52	52	23.636	1170	0.02	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	130	130	59.091	1520	0.039	1
											SUM	0.64	16
											Calculated Mean PEC-Qpah		0.04
PAHs Total	1610	12205	22800	3349.7				401.50	401.50	182.5	22800	0.008	1
											Mean PEC-Qpah		0.008
Total Metals:									Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	9900	9900	9900			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	30	30	30	33	0.909	1
Barium, Total				5810	-	7440-39-3	mg/kg	210	210	210			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.70	0.70	0.70	5	0.14	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	210	210	210	110	1.909	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	220	220	220	150	1.467	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	33	33	33	130	0.254	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.15	0.15	0.15	1.1	0.136	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	130	130	130	49	2.653	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	1.2	1.2	1.2			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.11	0.11	0.11	2.2	0.05	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	420	420	420	460	0.913	1
Chromium(VI)				1	-	18540-29-9	mg/kg	3.3 U	1.65	1.65			
											SUM	8.431	9
											Mean PEC-Qmetals		0.937
Miscellaneous Parameters:													
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	1.2					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.36					
Total Organic Carbon				-	-	TOC	%	2.2					
											Mean PEC-Q overall (PAH Calculated)		0.489
											Mean PEC-Q overall		0.473

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(c)
Mean PEC Q Calculation
L West Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	L West Bank	L West Bank Mean PEC Quotient Calculations			
								Field ID:	L-09-WB				
								Date Sampled:	40130				
								Data Type	Original				
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil				
								Sample Event	2009	Total Organic Carbon	3.2	%	
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	22 U		11.00	3.438	201	0.017	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	2.6 J		2.60	0.813	89	0.009	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	5.2 J		5.20	1.625	128	0.013	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA						
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	58		58	18.125	1050	0.017	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	49		49	15.313	1450	0.011	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	76		76	23.75	13400	0.002	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	40 J		40.00	12.5	3200	0.004	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	43		43	13.438	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	50		50	15.625	1290	0.012	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	43 U		21.50	6.719	135	0.05	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	86		86	26.875	2230	0.012	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	22 U		11.00	3.438	536	0.006	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	32 J		32.00	10	3200	0.003	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	330 U		165.00	51.563	561	0.092	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	68		68	21.25	1170	0.018	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	110		110	34.375	1520	0.023	1
												SUM	0.29	16
												Calculated Mean PEC-Qpah		0.019
PAHs Total	1610	12205	22800	3349.7				288.30		288.30	90.094	22800	0.004	1
												Mean PEC-Qpah		0.004
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	4000		4000	4000			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	9.9		9.9	9.9	33	0.3	1
Barium, Total				5810	-	7440-39-3	mg/kg	65		65	65			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.36		0.36	0.36	5	0.072	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	150		150	150	110	1.364	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	92		92	92	150	0.613	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	20		20	20	130	0.154	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.093		0.093	0.093	1.1	0.085	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	37		37	37	49	0.755	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.45		0.45	0.45			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.063		0.063	0.063	2.2	0.029	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	170		170	170	460	0.37	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.33 J		0.33	0.33			
												SUM	3.742	9
Miscellaneous Parameters:												Mean PEC-Qmetals		0.416
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	0.70						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.15						
Total Organic Carbon				-	-	TOC	%	3.2						
												Mean PEC-Q overall (PAH Calculated)		0.218
												Mean PEC-Q overall		0.21

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(d)
Mean PEC Q Calculation
N West Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	N West Bank	N West Bank			
								Field ID:	N-09-WB	Mean PEC Quotient Calculations			
								Date Sampled:	10/16/2003				
								Data Type	Original				
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil				
								Sample Event	2009	Total Organic Carbon	6.2	%	
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	34 U		17.00	2.742	201	0.014	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	6.9 J		6.90	1.113	89	0.013	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	34 U		17.00	2.742	128	0.021	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA						
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	90		90	14.516	1050	0.014	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	92		92	14.839	1450	0.01	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	110		110	17.742	13400	0.001	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	61 J		61.00	9.839	3200	0.003	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	92		92	14.839	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	110		110	17.742	1290	0.014	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	30 J		30.00	4.839	135	0.036	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	170		170	27.419	2230	0.012	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	34 U		17.00	2.742	536	0.005	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	51 J		51.00	8.226	3200	0.003	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	510 U		255.00	41.129	561	0.073	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	100		100	16.129	1170	0.014	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	220		220	35.484	1520	0.023	1
												SUM	0.257	16
												Calculated Mean PEC-Qpah		0.017
PAHs Total	1610	12205	22800	3349.7				454.90		454.90	73.37096774	22800	0.003	1
												Mean PEC-Qpah		0.003
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	6300		6300	6300			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	20		20	20	33	0.606	1
Barium, Total				5810	-	7440-39-3	mg/kg	150		150	150			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.57		0.57	0.57	5	0.114	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	150		150	150	110	1.364	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	120		120	120	150	0.8	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	30		30	30	130	0.231	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.10		0.10	0.10	1.1	0.091	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	75		75	75	49	1.531	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.85		0.85	0.85			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.080		0.080	0.080	2.2	0.036	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	240		240	240	460	0.522	1
Chromium(VI)				1	-	18540-29-9	mg/kg	4.1 U		2.05	2.05			
												SUM	5.295	9
Miscellaneous Parameters:												Mean PEC-Qmetals		0.589
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.18 J						
Total Organic Carbon				-	-	TOC	%	6.2						
												Mean PEC-Q overall (PAH Calculated)		0.303
												Mean PEC-Q overall		0.296

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(e)
Mean PEC Q Calculation
N East Bank
Former Stanley Tools Facility
Fowlerville Michigan

							Location	N East Bank	N East Bank Mean PEC Quotient Calculations				
							Field ID:	N-09-EB					
							Date Sampled:	40130					
							Data Type	Original					
	Consensed-Based Sediment Quality Guidelines						Material Type	Soil					
							Sample Event	2009	Total Organic Carbon	6.4	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units		Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	31 U	15.50	2.422	201	0.012	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	7.5 J	7.50	1.172	89	0.013	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	5.0 J	5.00	0.781	128	0.006	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA					
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	160	160	25	1050	0.024	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	180	180	28.125	1450	0.019	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	290	290	45.313	13400	0.003	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	100	100	15.625	3200	0.005	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	97	97	15.156	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	170	170	26.563	1290	0.021	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	29 J	29.00	4.531	135	0.034	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	350	350	54.688	2230	0.025	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	31 U	15.50	2.422	536	0.005	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	98	98	15.313	3200	0.005	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	470 U	235.00	36.719	561	0.065	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	200	200	31.25	1170	0.027	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	340	340	53.125	1520	0.035	1
											SUM	0.3	16
											Calculated Mean PEC-Qpah		0.019
PAHs Total	1610	12205	22800	3349.7				307.50	307.50	48.047	22800	0.002	1
											Mean PEC-Qpah		0.002
Total Metals:									Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	7500	7500	7500			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	26	26	26	33	0.788	1
Barium, Total				5810	-	7440-39-3	mg/kg	180	180	180			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.83	0.83	0.83	5	0.166	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	370	370	370	110	3.364	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	160	160	160	150	1.067	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	61	61	61	130	0.469	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.18	0.18	0.18	1.1	0.164	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	70	70	70	49	1.429	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.97	0.97	0.97			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.13	0.13	0.13	2.2	0.059	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	260	260	260	460	0.565	1
Chromium(VI)				1	-	18540-29-9	mg/kg	3.4 U	1.7	1.7			
											SUM	8.071	9
Miscellaneous Parameters:											Mean PEC-Qmetals		0.897
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	1.4					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.64					
Total Organic Carbon				-	-	TOC	%	6.4					
											Mean PEC-Q overall (PAH Calculated)		0.458
											Mean PEC-Q overall		0.45

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(f)
Mean PEC Q Calculation
O West Bank
Former Stanley Tools Facility
Fowlerville Michigan

							Location	O West Bank	O West Bank Mean PEC Quotient Calculations				
							Field ID:	O-09-WB					
							Date Sampled:	10/15/2003					
							Data Type	Original					
	Consensed-Based Sediment Quality Guidelines						Material Type	Soil					
							Sample Event	2009	Total Organic Carbon	4.7	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units		Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	39 U	19.50	4.149	201	0.021	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	10 J	10.00	2.128	89	0.024	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	6.3 J	6.30	1.34	128	0.01	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA					
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	150	150	31.915	1050	0.03	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	140	140	29.787	1450	0.021	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	220	220	46.809	13400	0.003	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	71 J	71.00	15.106	3200	0.005	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	89	89	18.936	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	150	150	31.915	1290	0.025	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	55 J	55.00	11.702	135	0.087	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	300	300	63.83	2230	0.029	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	39 U	19.50	4.149	536	0.008	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	81	81	17.234	3200	0.005	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	580 U	290.00	61.702	561	0.11	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	170	170	36.17	1170	0.031	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	300	300	63.83	1520	0.042	1
											SUM	0.452	16
											Calculated Mean PEC-Qpah		0.029
PAHs Total	1610	12205	22800	3349.7				471.30	471.30	100.277	22800	0.004	1
											Mean PEC-Qpah		0.004
Total Metals:									Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	7100	7100	7100			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	19	19	19	33	0.576	1
Barium, Total				5810	-	7440-39-3	mg/kg	170	170	170			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.68	0.68	0.68	5	0.136	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	110	110	110	110	1	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	92	92	92	150	0.613	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	29	29	29	130	0.223	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.11	0.11	0.11	1.1	0.1	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	47	47	47	49	0.959	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.90	0.90	0.90			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.097	0.097	0.097	2.2	0.044	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	180	180	180	460	0.391	1
Chromium(VI)				1	-	18540-29-9	mg/kg	4.6 U	2.3	2.3			
											SUM	4.042	9
Miscellaneous Parameters:											Mean PEC-Qmetals		0.45
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.23 U					
Total Organic Carbon				-	-	TOC	%	4.7					
											Mean PEC-Q overall (PAH Calculated)		0.24
											Mean PEC-Q overall		0.227

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(g)
Mean PEC Q Calculation
O East Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	O East Bank	O East Bank			
								Field ID:	O-09-EB	Mean PEC Quotient Calculations			
								Date Sampled:	40130				
								Data Type	Original				
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil				
								Sample Event	2009	Total Organic Carbon	3.2	%	
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	2.9 J		2.90	0.906	201	0.005	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	7.4 J		7.40	2.313	89	0.026	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	24 U		12.00	3.75	128	0.029	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA						
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	230		230	71.875	1050	0.068	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	210		210	65.625	1450	0.045	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	330		330	103.125	13400	0.008	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	120		120	37.5	3200	0.012	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	120		120	37.5	13400	0.003	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	210		210	65.625	1290	0.051	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	28 J		28.00	8.75	135	0.065	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	370		370	115.625	2230	0.052	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	17 J		17.00	5.313	536	0.01	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	110		110	34.375	3200	0.011	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	370 U		185.00	57.813	561	0.103	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	250		250	78.125	1170	0.067	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	450		450	140.625	1520	0.093	1
												SUM	0.648	16
												Calculated Mean PEC-Qpah		0.041
PAHs Total	1610	12205	22800	3349.7				252.30		252.30	78.844	22800	0.003	1
												Mean PEC-Qpah		0.003
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	6500		6500	6500			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	14		14	14	33	0.424	1
Barium, Total				5810	-	7440-39-3	mg/kg	96		96	96			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.47		0.47	0.47	5	0.094	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	210		210	210	110	1.909	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	110		110	110	150	0.733	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	31		31	31	130	0.238	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.15		0.15	0.15	1.1	0.136	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	41		41	41	49	0.837	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.59		0.59	0.59			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.094		0.094	0.094	2.2	0.043	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	180		180	180	460	0.391	1
Chromium(VI)				1	-	18540-29-9	mg/kg	2.9 U		1.45	1.45			
												SUM	4.805	9
Miscellaneous Parameters:												Mean PEC-Qmetals		0.534
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	0.67						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.19						
Total Organic Carbon				-	-	TOC	%	3.2						
												Mean PEC-Q overall (PAH Calculated)		0.288
												Mean PEC-Q overall		0.269

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(h)
Mean PEC Q Calculation
P West Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	P West Bank	P West Bank Mean PEC Quotient Calculations				
								Field ID:	P-09-WB					
								Date Sampled:	10/15/2003					
								Data Type	Original					
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil					
								Sample Event	2009	Total Organic Carbon	10	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	43 U		21.50	2.15	201	0.011	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	4.3 J		4.30	0.43	89	0.005	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	43 U		21.50	2.15	128	0.017	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA						
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	85		85	8.5	1050	0.008	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	110		110	11	1450	0.008	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	170		170	17	13400	0.001	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	81 J		81.00	8.1	3200	0.003	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	82		82	8.2	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	120		120	12	1290	0.009	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	86 U		43.00	4.3	135	0.032	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	190		190	19	2230	0.009	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	43 U		21.50	2.15	536	0.004	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	68 J		68.00	6.8	3200	0.002	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	600 U		300.00	30	561	0.053	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	89		89	8.9	1170	0.008	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	180		180	18	1520	0.012	1
												SUM	0.183	16
												Calculated Mean PEC-Qpah		0.012
PAHs Total	1610	12205	22800	3349.7				560.80		560.80	56.08	22800	0.002	1
												Mean PEC-Qpah		0.002
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	9600		9600	9600			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	33		33	33	33	1	1
Barium, Total				5810	-	7440-39-3	mg/kg	240		240	240			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.76		0.76	0.76	5	0.152	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	46		46	46	110	0.418	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	38		38	38	150	0.253	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	24		24	24	130	0.185	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.10		0.10	0.10	1.1	0.091	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	27		27	27	49	0.551	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	1.1		1.1	1.1			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.095		0.095	0.095	2.2	0.043	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	130		130	130	460	0.283	1
Chromium(VI)				1	-	18540-29-9	mg/kg	4.5 U		2.25	2.25			
												SUM	2.976	9
												Mean PEC-Qmetals		0.331
Miscellaneous Parameters:														
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	3.3						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.36						
Total Organic Carbon				-	-	TOC	%	10						
												Mean PEC-Q overall (PAH Calculated)		0.172
												Mean PEC-Q overall		0.167

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
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B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(i)
Mean PEC Q Calculation
P East Bank
Former Stanley Tools Facility
Fowlerville Michigan

							Location	P East Bank	P East Bank Mean PEC Quotient Calculations				
							Field ID:	P-09-EB					
							Date Sampled:	40130					
							Data Type	Original					
	Consensed-Based Sediment Quality Guidelines						Material Type	Soil					
							Sample Event	2009	Total Organic Carbon	4.2	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units		Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	1.1 J	1.10	0.262	201	0.001	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	9.0 J	9.00	2.143	89	0.024	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	3.4 J	3.40	0.81	128	0.006	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA					
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	210	210	50	1050	0.048	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	200	200	47.619	1450	0.033	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	340	340	80.952	13400	0.006	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	120	120	28.571	3200	0.009	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	100	100	23.81	13400	0.002	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	230	230	54.762	1290	0.042	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	30 J	30.00	7.143	135	0.053	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	420	420	100	2230	0.045	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	15 J	15.00	3.571	536	0.007	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	110	110	26.19	3200	0.008	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	420 U	210.00	50	561	0.089	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	280	280	66.667	1170	0.057	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	460	460	109.524	1520	0.072	1
											SUM	0.502	16
											Calculated Mean PEC-Qpah		0.032
PAHs Total	1610	12205	22800	3349.7				268.50	268.50	63.929	22800	0.003	1
											Mean PEC-Qpah		0.003
Total Metals:									Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	5700	5700	5700			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	22	22	22	33	0.667	1
Barium, Total				5810	-	7440-39-3	mg/kg	84	84	84			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.37	0.37	0.37	5	0.074	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	100	100	100	110	0.909	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	62	62	62	150	0.413	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	20	20	20	130	0.154	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.073	0.073	0.073	1.1	0.066	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	27	27	27	49	0.551	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.54	0.54	0.54			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.067	0.067	0.067	2.2	0.03	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	110	110	110	460	0.239	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.90 J	0.9	0.9			
											SUM	3.103	9
											Mean PEC-Qmetals		0.345
Miscellaneous Parameters:													
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	1.7					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.35					
Total Organic Carbon				-	-	TOC	%	4.2					
											Mean PEC-Q overall (PAH Calculated)		0.189
											Mean PEC-Q overall		0.174

Notes:

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Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

Table 8(i)
Mean PEC Q Calculation
P East Bank
Former Stanley Tools Facility
Fowlerville Michigan

								Location	P East Bank	P East Bank Mean PEC Quotient Calculations				
								Field ID:	P-09-EB					
								Date Sampled:	40130					
								Data Type	Original					
	Consensed-Based Sediment Quality Guidelines							Material Type	Soil					
								Sample Event	2009	Total Organic Carbon	4.2	%		
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	CAS No.	Units			Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	µg/kg	1.1 J		1.10	0.262	201	0.001	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	µg/kg	9.0 J		9.00	2.143	89	0.024	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	µg/kg	3.4 J		3.40	0.81	128	0.006	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	µg/kg	NA						
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	µg/kg	210		210	50	1050	0.048	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	µg/kg	200		200	47.619	1450	0.033	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	µg/kg	340		340	80.952	13400	0.006	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	µg/kg	120		120	28.571	3200	0.009	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	µg/kg	100		100	23.81	13400	0.002	1
Chrysene	166	728	1290	350	**166**	218-01-9	µg/kg	230		230	54.762	1290	0.042	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	µg/kg	30 J		30.00	7.143	135	0.053	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	µg/kg	420		420	100	2230	0.045	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	µg/kg	15 J		15.00	3.571	536	0.007	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	µg/kg	110		110	26.19	3200	0.008	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	µg/kg	420 U		210.00	50	561	0.089	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	µg/kg	280		280	66.667	1170	0.057	1
Pyrene	195	858	1520	518	**195**	129-00-0	µg/kg	460		460	109.524	1520	0.072	1
												SUM	0.502	16
												Calculated Mean PEC-Qpah		0.032
PAHs Total	1610	12205	22800	3349.7				268.50		268.50	63.929	22800	0.003	1
												Mean PEC-Qpah		0.003
Total Metals:										Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	5700		5700	5700			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	22		22	22	33	0.667	1
Barium, Total				5810	-	7440-39-3	mg/kg	84		84	84			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.37		0.37	0.37	5	0.074	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	100		100	100	110	0.909	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	62		62	62	150	0.413	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	20		20	20	130	0.154	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.073		0.073	0.073	1.1	0.066	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	27		27	27	49	0.551	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.54		0.54	0.54			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.067		0.067	0.067	2.2	0.03	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	110		110	110	460	0.239	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.90 J		0.9	0.9			
												SUM	3.103	9
												Mean PEC-Qmetals		0.345
Miscellaneous Parameters:														
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	1.7						
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.35						
Total Organic Carbon				-	-	TOC	%	4.2						
												Mean PEC-Q overall (PAH Calculated)		0.189
												Mean PEC-Q overall		0.174

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
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Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Note 1: 1/2 reporting limit used for non-detect samples.
Note 2: Metals with very low detection limits were not used in the calculations in accordance with the WDNR Guidance if not detected.

TABLE 9:

OVERBANK ECOLOGICAL SCREENING CRITERIA

TABLE 9
OVERBANK ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	CAS	Most Restrictive Eco-SSL TRV	Saturated Soil Eco-SSL TRV	LOAEL TRV	Region 5 RCRA Soil ESL	State Wide Default Background Levels (Part 201)	SCREENING CRITERIA SOURCE	SCREENING CRITERIA VALUE	Units
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	630-20-6	-	-	-	225,000.00	-	**Region 5 RCRA Soil ESL**	**225,000.00**	µg/kg
1,1,1-Trichloroethane	71-55-6	-	-	-	29,800.00	-	**Region 5 RCRA Soil ESL**	**29,800.00**	µg/kg
1,1,2,2-Tetrachloroethane	79-34-5	-	-	-	127.00	-	**Region 5 RCRA Soil ESL**	**127.00**	µg/kg
1,1,2-Trichloroethane	79-00-5	-	-	-	28,600.00	-	**Region 5 RCRA Soil ESL**	**28,600.00**	µg/kg
1,1-Dichloroethane	75-34-3	-	-	-	20,100.00	-	**Region 5 RCRA Soil ESL**	**20,100.00**	µg/kg
1,1-Dichloroethene	75-35-4	-	-	-	8,280.00	-	**Region 5 RCRA Soil ESL**	**8,280.00**	µg/kg
1,1-Dichloropropene	563-58-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
1,2,3-Trichlorobenzene	87-61-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
1,2,3-Trichloropropane	96-18-4	-	-	-	3,360.00	-	**Region 5 RCRA Soil ESL**	**3,360.00**	µg/kg
1,2,4-Trichlorobenzene	120-82-1	-	-	-	11,100.00	-	**Region 5 RCRA Soil ESL**	**11,100.00**	µg/kg
1,2,4-Trimethylbenzene	95-63-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
1,2-Dibromo-3-chloropropane	96-12-8	-	-	-	35.20	-	**Region 5 RCRA Soil ESL**	**35.20**	µg/kg
1,2-Dichlorobenzene	95-50-1	-	-	-	2,960.00	-	**Region 5 RCRA Soil ESL**	**2,960.00**	µg/kg
1,2-Dichloroethane	107-06-2	-	-	-	21,200.00	-	**Region 5 RCRA Soil ESL**	**21,200.00**	µg/kg
1,2-Dichloroethene (Total)	540-59-0	-	-	-	398.00	-	**Region 5 RCRA Soil ESL**	**398.00**	µg/kg
1,2-Dichloropropane	78-87-5	-	-	-	32,700.00	-	**Region 5 RCRA Soil ESL**	**32,700.00**	µg/kg
1,3,5-Trimethylbenzene	108-67-8	-	-	-	--	-	**N/A**	**N/A**	µg/kg
1,3-Dichlorobenzene	541-73-1	-	-	-	37,700.00	-	**Region 5 RCRA Soil ESL**	**37,700.00**	µg/kg
1,3-Dichloropropane	142-28-9	-	-	-	--	-	**N/A**	**N/A**	µg/kg
1,4-Dichlorobenzene	106-46-7	-	-	-	546.00	-	**Region 5 RCRA Soil ESL**	**546.00**	µg/kg
2,2-Dichloropropane	594-20-7	-	-	-	--	-	**N/A**	**N/A**	µg/kg
2-Chlorotoluene	95-49-8	-	-	-	--	-	**N/A**	**N/A**	µg/kg
2-Hexanone	591-78-6	-	-	-	12,600.00	-	**Region 5 RCRA Soil ESL**	**12,600.00**	µg/kg
4-Chlorotoluene	106-43-4	-	-	-	--	-	**N/A**	**N/A**	µg/kg
4-Isopropyltoluene	99-87-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
4-Methyl-2-pentanone (MIBK)	108-10-1	-	-	-	443,000.00	-	**Region 5 RCRA Soil ESL**	**443,000.00**	µg/kg
Acetone	67-64-1	-	-	-	2,500.00	-	**Region 5 RCRA Soil ESL**	**2,500.00**	µg/kg
Acrolein	107-02-8	-	-	-	5,270.00	-	**Region 5 RCRA Soil ESL**	**5,270.00**	µg/kg
Benzene	71-43-2	-	-	-	255.00	-	**Region 5 RCRA Soil ESL**	**255.00**	µg/kg
Bromobenzene	108-86-1	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Bromochloromethane	74-97-5	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Bromoform	75-25-2	-	-	-	15,900.00	-	**Region 5 RCRA Soil ESL**	**15,900.00**	µg/kg
Bromomethane	74-83-9	-	-	-	235.00	-	**Region 5 RCRA Soil ESL**	**235.00**	µg/kg
Carbon Disulfide	75-15-0	-	-	-	94.10	-	**Region 5 RCRA Soil ESL**	**94.10**	µg/kg
Carbon Tetrachloride	56-23-5	-	-	-	2,980.00	-	**Region 5 RCRA Soil ESL**	**2,980.00**	µg/kg
Chlorobenzene	108-90-7	-	-	-	13,100.00	-	**Region 5 RCRA Soil ESL**	**13,100.00**	µg/kg
Chloroethane	75-00-3	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Chloroform	67-66-3	-	-	-	1,190.00	-	**Region 5 RCRA Soil ESL**	**1,190.00**	µg/kg
Chloromethane	74-87-3	-	-	-	10,400.00	-	**Region 5 RCRA Soil ESL**	**10,400.00**	µg/kg
cis-1,2-Dichloroethene	156-59-2	-	-	-	--	-	**N/A**	**N/A**	µg/kg
cis-1,3-Dichloropropene	10061-01-5	-	-	-	398.00	-	**Region 5 RCRA Soil ESL**	**398.00**	µg/kg
Dibromochloromethane	124-48-1	-	-	-	2,050.00	-	**Region 5 RCRA Soil ESL**	**2,050.00**	µg/kg

TABLE 9
OVERBANK ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	CAS	Most Restrictive Eco-SSL TRV	Saturated Soil Eco-SSL TRV	LOAEL TRV	Region 5 RCRA Soil ESL	State Wide Default Background Levels (Part 201)	SCREENING CRITERIA SOURCE	SCREENING CRITERIA VALUE	Units
Dibromomethane	74-95-3	-	-	-	1,230.00	-	**Region 5 RCRA Soil ESL**	**1,230.00**	µg/kg
Dichlorobromomethane	75-27-4	-	-	-	540.00	-	**Region 5 RCRA Soil ESL**	**540.00**	µg/kg
Dichlorodifluoromethane	75-71-8	-	-	-	39,500.00	-	**Region 5 RCRA Soil ESL**	**39,500.00**	µg/kg
Ethylbenzene	100-41-4	-	-	-	5,160.00	-	**Region 5 RCRA Soil ESL**	**5,160.00**	µg/kg
Ethylene dibromide	106-93-4	-	-	-	1,230.00	-	**Region 5 RCRA Soil ESL**	**1,230.00**	µg/kg
Hexachlorobutadiene	87-68-3	-	-	-	39.80	-	**Region 5 RCRA Soil ESL**	**39.80**	µg/kg
Isopropylbenzene	98-82-8	-	-	-	--	-	**N/A**	**N/A**	µg/kg
2-Butanone (MEK)	78-93-3	-	-	-	89,600.00	-	**Region 5 RCRA Soil ESL**	**89,600.00**	µg/kg
Methyl tert-Butyl Ether	1634-04-4	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Methylene Chloride	75-09-2	-	-	-	4,050.00	-	**Region 5 RCRA Soil ESL**	**4,050.00**	µg/kg
n-Butylbenzene	104-51-8	-	-	-	--	-	**N/A**	**N/A**	µg/kg
n-Propylbenzene	103-65-1	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Naphthalene	91-20-3	-	-	-	99.40	-	**Region 5 RCRA Soil ESL**	**99.40**	µg/kg
Xylene, Ortho	95-47-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
sec-Butylbenzene	135-98-8	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Styrene	100-42-5	-	-	-	4,690.00	-	**Region 5 RCRA Soil ESL**	**4,690.00**	µg/kg
tert-Butylbenzene	98-06-6	-	-	-	--	-	**N/A**	**N/A**	µg/kg
Tetrachloroethene	127-18-4	-	-	-	9,920.00	-	**Region 5 RCRA Soil ESL**	**9,920.00**	µg/kg
Toluene	108-88-3	-	-	-	5,450.00	-	**Region 5 RCRA Soil ESL**	**5,450.00**	µg/kg
trans-1,2-Dichloroethene	156-60-5	-	-	-	784.00	-	**Region 5 RCRA Soil ESL**	**784.00**	µg/kg
trans-1,3-Dichloropropene	10061-02-6	-	-	-	398.00	-	**Region 5 RCRA Soil ESL**	**398.00**	µg/kg
Trichloroethene	79-01-6	-	-	-	12,400.00	-	**Region 5 RCRA Soil ESL**	**12,400.00**	µg/kg
Trichlorofluoromethane	75-69-4	-	-	-	16,400.00	-	**Region 5 RCRA Soil ESL**	**16,400.00**	µg/kg
Vinyl Chloride	75-01-4	-	-	-	646.00	-	**Region 5 RCRA Soil ESL**	**646.00**	µg/kg
Xylene, Meta + Para	Not Applicable	-	-	-	6,620.00	-	**Region 5 RCRA Soil ESL**	**6,620.00**	µg/kg
Semi-Volatile Organic Compounds									µg/kg
1,2,4-Trichlorobenzene	120-82-1	-	-	-	11,100.00	-	**Region 5 RCRA Soil ESL**	**11,100.00**	µg/kg
1,2-Benzphenanthracene	218-01-9	-	-	-	4,730.00	-	**Region 5 RCRA Soil ESL**	**4,730.00**	µg/kg
1,2-Dichlorobenzene	95-50-1	-	-	-	2,960.00	-	**Region 5 RCRA Soil ESL**	**2,960.00**	µg/kg
1,3-Dichlorobenzene	541-73-1	-	-	-	37,700.00	-	**Region 5 RCRA Soil ESL**	**37,700.00**	µg/kg
1,4-Dichlorobenzene	106-46-7	-	-	-	546.00	-	**Region 5 RCRA Soil ESL**	**546.00**	µg/kg
2,4,5-Trichlorophenol	95-95-4	-	-	-	14,100.00	-	**Region 5 RCRA Soil ESL**	**14,100.00**	µg/kg
2,4,6-Trichlorophenol	88-06-2	-	-	-	9,940.00	-	**Region 5 RCRA Soil ESL**	**9,940.00**	µg/kg
2,4-Dichlorophenol	120-83-2	-	-	-	87,500.00	-	**Region 5 RCRA Soil ESL**	**87,500.00**	µg/kg
2,4-Dimethylphenol	105-67-9	-	-	-	10.00	-	**Region 5 RCRA Soil ESL**	**10.00**	µg/kg
2,4-Dinitrophenol	51-28-5	-	-	-	60.90	-	**Region 5 RCRA Soil ESL**	**60.90**	µg/kg
2,4-Dinitrotoluene	121-14-2	-	-	-	1,280.00	-	**Region 5 RCRA Soil ESL**	**1,280.00**	µg/kg
2,6-Dinitrotoluene	606-20-2	-	-	-	32.80	-	**Region 5 RCRA Soil ESL**	**32.80**	µg/kg
2-Chloronaphthalene	91-58-7	-	-	-	12.20	-	**Region 5 RCRA Soil ESL**	**12.20**	µg/kg
2-Chlorophenol	95-57-8	-	-	-	243.00	-	**Region 5 RCRA Soil ESL**	**243.00**	µg/kg

TABLE 9
OVERBANK ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	CAS	Most Restrictive Eco-SSL TRV	Saturated Soil Eco-SSL TRV	LOAEL TRV	Region 5 RCRA Soil ESL	State Wide Default Background Levels (Part 201)	SCREENING CRITERIA SOURCE	SCREENING CRITERIA VALUE	Units
2-Methylnaphthalene	91-57-6	-	-	-	3,240.00	-	Region 5 RCRA Soil ESL	3,240.00	µg/kg
2-Methylphenol	95-48-7	-	-	-	40,400.00	-	Region 5 RCRA Soil ESL	40,400.00	µg/kg
2-Nitroaniline	88-74-4	-	-	-	74,100.00	-	Region 5 RCRA Soil ESL	74,100.00	µg/kg
2-Nitrophenol	88-75-5	-	-	-	1,600.00	-	Region 5 RCRA Soil ESL	1,600.00	µg/kg
3,3'-Dichlorobenzidine	91-94-1	-	-	-	646.00	-	Region 5 RCRA Soil ESL	646.00	µg/kg
3+4-Methylphenol	108-39-4	-	-	-	3,490.00	-	Region 5 RCRA Soil ESL	3,490.00	µg/kg
3-Nitroaniline	99-09-2	-	-	-	3,160.00	-	Region 5 RCRA Soil ESL	3,160.00	µg/kg
4,6-Dinitro-2-methylphenol	534-52-1	-	-	-	144.00	-	Region 5 RCRA Soil ESL	144.00	µg/kg
4-Bromophenyl Phenyl Ether	101-55-3	-	-	-	--	-	N/A	N/A	µg/kg
4-Chloroaniline	106-47-8	-	-	-	1,100.00	-	Region 5 RCRA Soil ESL	1,100.00	µg/kg
4-Chlorophenyl Phenyl Ether	7005-72-3	-	-	-	--	-	N/A	N/A	µg/kg
4-Methylphenol	106-44-5	-	-	-	163,000.00	-	Region 5 RCRA Soil ESL	163,000.00	µg/kg
4-Nitroaniline	100-01-6	-	-	-	21,900.00	-	Region 5 RCRA Soil ESL	21,900.00	µg/kg
4-Nitrophenol	100-02-7	-	-	-	5,120.00	-	Region 5 RCRA Soil ESL	5,120.00	µg/kg
Acenaphthene	83-32-9	-	-	-	682,000.00	-	Region 5 RCRA Soil ESL	682,000.00	µg/kg
Acenaphthylene	208-96-8	-	-	-	682,000.00	-	Region 5 RCRA Soil ESL	682,000.00	µg/kg
Anthracene	120-12-7	-	-	-	1,480,000.00	-	Region 5 RCRA Soil ESL	1,480,000.00	µg/kg
Benzo(a)anthracene	56-55-3	-	-	-	5,210.00	-	Region 5 RCRA Soil ESL	5,210.00	µg/kg
Benzidine	92-87-5	-	-	-	--	-	N/A	N/A	µg/kg
Benzo(a)pyrene	50-32-8	-	-	-	1,520.00	-	Region 5 RCRA Soil ESL	1,520.00	µg/kg
Benzo(b)fluoranthene	205-99-2	-	-	-	59,800.00	-	Region 5 RCRA Soil ESL	59,800.00	µg/kg
Benzo(g,h,i)perylene	191-24-2	-	-	-	119,000.00	-	Region 5 RCRA Soil ESL	119,000.00	µg/kg
Benzo(k)fluoranthene	207-08-9	-	-	-	148,000.00	-	Region 5 RCRA Soil ESL	148,000.00	µg/kg
Benzoic Acid	65-85-0	-	-	-	--	-	N/A	N/A	µg/kg
Benzyl Alcohol	100-51-6	-	-	-	65,800.00	-	Region 5 RCRA Soil ESL	65,800.00	µg/kg
Bis(2-chloroethoxy)methane	111-91-1	-	-	-	302.00	-	Region 5 RCRA Soil ESL	302.00	µg/kg
Bis(2-chloroethyl) Ether	111-44-4	-	-	-	23,700.00	-	Region 5 RCRA Soil ESL	23,700.00	µg/kg
bis(2-Chloroisopropyl)ether	108-60-1	-	-	-	19,900.00	-	Region 5 RCRA Soil ESL	19,900.00	µg/kg
Bis(2-ethylhexyl) Phthalate	117-81-7	-	-	-	925.00	-	Region 5 RCRA Soil ESL	925.00	µg/kg
Butyl Benzyl Phthalate	85-68-7	-	-	-	239.00	-	Region 5 RCRA Soil ESL	239.00	µg/kg
Carbazole	86-74-8	-	-	-	--	-	N/A	N/A	µg/kg
Chrysene	218-01-9	-	-	-	4,730.00	-	Region 5 RCRA Soil ESL	4,730.00	µg/kg
Di-n-butyl Phthalate	84-74-2	-	-	-	150.00	-	Region 5 RCRA Soil ESL	150.00	µg/kg
Di-n-octyl Phthalate	117-84-0	-	-	-	709,000.00	-	Region 5 RCRA Soil ESL	709,000.00	µg/kg
Dibenz(a,h)anthracene	53-70-3	-	-	-	18,400.00	-	Region 5 RCRA Soil ESL	18,400.00	µg/kg
Dibenzofuran	132-64-9	-	-	-	--	-	N/A	N/A	µg/kg
Diethyl Phthalate	84-66-2	-	-	-	24,800.00	-	Region 5 RCRA Soil ESL	24,800.00	µg/kg
Dimethyl Phthalate	131-11-3	-	-	-	734,000.00	-	Region 5 RCRA Soil ESL	734,000.00	µg/kg
Fluoranthene	206-44-0	-	-	-	122,000.00	-	Region 5 RCRA Soil ESL	122,000.00	µg/kg

TABLE 9
OVERBANK ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	CAS	Most Restrictive Eco-SSL TRV	Saturated Soil Eco-SSL TRV	LOAEL TRV	Region 5 RCRA Soil ESL	State Wide Default Background Levels (Part 201)	SCREENING CRITERIA SOURCE	SCREENING CRITERIA VALUE	Units
Fluorene	86-73-7	-	-	-	122,000.00	-	**Region 5 RCRA Soil ESL**	**122,000.00**	µg/kg
Hexachlorobenzene	118-74-1	-	-	-	199.00	-	**Region 5 RCRA Soil ESL**	**199.00**	µg/kg
Hexachlorobutadiene	87-68-3	-	-	-	39.80	-	**Region 5 RCRA Soil ESL**	**39.80**	µg/kg
Hexachlorocyclopentadiene	77-47-4	-	-	-	755.00	-	**Region 5 RCRA Soil ESL**	**755.00**	µg/kg
Hexachloroethane	67-72-1	-	-	-	596.00	-	**Region 5 RCRA Soil ESL**	**596.00**	µg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	-	-	-	109,000.00	-	**Region 5 RCRA Soil ESL**	**109,000.00**	µg/kg
Isophorone	78-59-1	-	-	-	139,000.00	-	**Region 5 RCRA Soil ESL**	**139,000.00**	µg/kg
N-Nitroso-di-n-propylamine	621-64-7	-	-	-	544.00	-	**Region 5 RCRA Soil ESL**	**544.00**	µg/kg
N-Nitroso-diphenylamine	86-30-6	-	-	-	545.00	-	**Region 5 RCRA Soil ESL**	**545.00**	µg/kg
Naphthalene	91-20-3	-	-	-	99.40	-	**Region 5 RCRA Soil ESL**	**99.40**	µg/kg
Nitrobenzene	98-95-3	-	-	-	1,310.00	-	**Region 5 RCRA Soil ESL**	**1,310.00**	µg/kg
p-Chloro-m-cresol	59-50-7	-	-	-	7,950.00	-	**Region 5 RCRA Soil ESL**	**7,950.00**	µg/kg
Pentachlorophenol	87-86-5	-	-	-	119.00	-	**Region 5 RCRA Soil ESL**	**119.00**	µg/kg
Phenanthrene	85-01-8	-	-	-	45,700.00	-	**Region 5 RCRA Soil ESL**	**45,700.00**	µg/kg
Phenol	108-95-2	-	-	-	120,000.00	-	**Region 5 RCRA Soil ESL**	**120,000.00**	µg/kg
PNAs Total	TPNA	-	-	-		-	**N/A**	**N/A**	µg/kg
Pyrene	129-00-0	-	-	-	78,500.00	-	**Region 5 RCRA Soil ESL**	**78,500.00**	µg/kg
LMW PAHs		29000 Soil Inv.	350000 Mammalian herbivore (vole)	-	-	-	**Most Restrictive Eco-SSL TRV**	**29000 Soil Inv.**	µg/kg
HMW PAHs		1100 Mam.	-	-	-	-	**Most Restrictive Eco-SSL TRV**	**1100 Mam.**	µg/kg
Total PAHs		-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCBs									
PCB Total	TPCB	-	-	-	0.332	-	**Region 5 RCRA Soil ESL**	**0.332#**	µg/kg
PCB-1016	12674-11-2	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1221	11104-28-2	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1232	11141-16-5	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1242	53469-21-9	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1248	12672-29-6	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1254	11097-69-1	-	-	-	-	-	**N/A**	**N/A**	µg/kg
PCB-1260	11096-82-5	-	-	-	-	-	**N/A**	**N/A**	µg/kg
Total Metals									
Aluminum, Total	7429-90-5	32 Growth Ea	-	-	-	6900	**State Wide Default Background Levels (Part 201)**	**6900 ** Not Bio Available**	mg/kg
Arsenic, Total	7440-38-2	18 Plant	-	-	-	5.8	**Most Restrictive Eco-SSL TRV**	**18 Plant**	mg/kg
Barium, Total	7440-39-3	330 Soil Invert.	3200 Mammalian herbivore (vole)	-	-	75	**Most Restrictive Eco-SSL TRV**	**330 Soil Invert.**	mg/kg
Cadmium, Total	7440-43-9	0.36 Mam.	-	-	-	1.2	**State Wide Default Background Levels (Part 201)**	**1.2**	mg/kg

TABLE 9
OVERBANK ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

	CAS	Most Restrictive Eco-SSL TRV	Saturated Soil Eco-SSL TRV	LOAEL TRV	Region 5 RCRA Soil ESL	State Wide Default Background Levels (Part 201)	SCREENING CRITERIA SOURCE	SCREENING CRITERIA VALUE	Units
Chromium, Total	7440-47-3	26 Avian	78 Avian Herbivore (Dove)	-	-	18	**Saturated Soil Eco-SSL TRV**	**78 Avian Herbivore (Dove)**	mg/kg
Copper, Total	7440-50-8	28 Avian	76 Avian Herbivore (Dove)	535 Avian Herbivore (Dove)	-	32	**LOAEL TRV**	**535 Avian Herbivore (Dove)**	mg/kg
Lead, Total	7439-92-1	11 Avian	46 Avian Herbivore (Dove)	-	-	21	**Saturated Soil Eco-SSL TRV**	**46 Avian Herbivore (Dove)**	mg/kg
Mercury, Total	7439-97-6	-	-	-	-	0.13	**State Wide Default Background Levels (Part 201)**	**0.13**	mg/kg
Nickel, Total	7440-02-0	38 Plant	-	-	-	20	**Most Restrictive Eco-SSL TRV**	**38 Plant**	mg/kg
Selenium, Total	7782-49-2	0.52 Plant	-	-	-	0.41	**Most Restrictive Eco-SSL TRV**	**0.52 Plant**	mg/kg
Silver, Total	7440-22-4	4.2 Avian	69 Avian Herbivore (Dove)	-	-	1	**Most Restrictive Eco-SSL TRV**	**4.2 Avian**	mg/kg
Zinc, Total	7440-66-6	46 Avian	950 Avian Herbivore (Dove)	-	-	47	**Saturated Soil Eco-SSL TRV**	**950 Avian Herbivore (Dove)**	mg/kg
Chromium, Hexavalent	18540-29-9	130 Mam.	-	-	-	NA	**Most Restrictive Eco-SSL TRV**	**130 Mam.**	mg/kg
Misc									
Cyanide, Available	57-12-5	-	-	-	1.30	NA	**Region 5 RCRA Soil ESL**	**1.30**	mg/kg
Cyanide, Total	57-12-5	-	-	-	1.30	0.39	**Region 5 RCRA Soil ESL**	**1.30**	mg/kg

Notes:

R5 RCRA Soil ELS- Region 5 USEPA RCRA Ecological Screening Levels for Soils, used if USEPA Eco-SSL not available.

Most Restrictive Eco-SSL TRV - The most restrictive US EPA Ecological Soil Screening Level (Eco-SSL) available at http://www.epa.gov/ecotox/ecossl/index.html (not available for all parameters)

Saturated Soil Eco-SSL TRV - Since the water table is at or close to the soil surface, it is unlikely to support habitat for soil invertibrate. This is the most restrictive US EPA Ecological Soil Screening Level (Eco-SSL) available that does not include soile invertibrates in the food chain.

Site Specific Background Levels -presented in Table 1 of the Sediment Technical Memorandum located in Appendix A of the Final Corrective Measures Proposal

State Wide Default Background Levels (Part 201) - Are the default state wide background levels accepted under the Michigan Part 201 Program.

LOAEL TRV - Lowest Adverse Effect Level Toxicity Reference Value. From EPA region 5, given in the December 5, 2011 letter. Based on ECO-SSL guidance equations, an upper bound clean up criteria for copper in soil protective of a dove is estimated at 535 mg/kg based on median food ingestion rate of 0.137 g/g-day, median incidental soil ingestion rate of 0.061, and avian LOAEL TRV is 4.6 mg/kg-day.

**NBA - Aluminum is not bio-available in soils with pH>5.5, site soil pH ranges 7.3-7.6

- For PCB's USEPA Region 5 upper bound cleanup criteria is 600 ug/kg

TABLE 10:

OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	Region 5 RCRA Soil ESL	225,000.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,1-Trichloroethane	71-55-6	Region 5 RCRA Soil ESL	29,800.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,2,2-Tetrachloroethane	79-34-5	Region 5 RCRA Soil ESL	127.00	µg/kg	53 U	70 U	72 U	*170 U*	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,2-Trichloroethane	79-00-5	Region 5 RCRA Soil ESL	28,600.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloroethane	75-34-3	Region 5 RCRA Soil ESL	20,100.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloroethene	75-35-4	Region 5 RCRA Soil ESL	8,280.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloropropene	563-58-6	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,3-Trichlorobenzene	87-61-6	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,3-Trichloropropane	96-18-4	Region 5 RCRA Soil ESL	3,360.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	11,100.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,4-Trimethylbenzene	95-63-6	N/A	N/A	µg/kg	77	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dibromo-3-chloropropane	96-12-8	Region 5 RCRA Soil ESL	35.20	µg/kg	*270 U*	*350 U*	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	2,960.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dichloroethane	107-06-2	Region 5 RCRA Soil ESL	21,200.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dichloroethene (Total)	540-59-0	Region 5 RCRA Soil ESL	398.00	µg/kg	110 U	140 U	140 U	340 U	140 U	150 U	170 U	130 U	190 U	120 U	150 U	110 U	100 U	150 U	120 U
1,2-Dichloropropane	78-87-5	Region 5 RCRA Soil ESL	32,700.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,3,5-Trimethylbenzene	108-67-8	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	37,700.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,3-Dichloropropane	142-28-9	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	546.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2,2-Dichloropropane	594-20-7	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Chlorotoluene	95-49-8	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Hexanone	591-78-6	Region 5 RCRA Soil ESL	12,600.00	µg/kg	2700 U	3500 U	3600 U	8600 U	3600 U	3700 U	4200 U	3100 U	4700 U	2900 U	3700 U	2800 U	2500 U	3800 U	3100 U
4-Chlorotoluene	106-43-4	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
4-Isopropyltoluene	99-87-6	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
4-Methyl-2-pentanone (MIBK)	108-10-1	Region 5 RCRA Soil ESL	443,000.00	µg/kg	2700 U	3500 U	3600 U	8600 U	3600 U	3700 U	4200 U	3100 U	4700 U	2900 U	3700 U	2800 U	2500 U	3800 U	3100 U
Acetone	67-64-1	Region 5 RCRA Soil ESL	2,500.00	µg/kg	800 U	180 J	1100 U	450 J	130 J	1100 U	210 J	140 J	250 J	180 J	270 J	830 U	140 J	170 J	160 J
Acrolein	107-02-8	Region 5 RCRA Soil ESL	5,270.00	µg/kg	270 U	350 U	360 U	860 U	360 U	370 U	420 U	310 U	470 U	290 U	370 U	280 U	250 U	380 U	310 U
Benzene	71-43-2	Region 5 RCRA Soil ESL	255.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromobenzene	108-86-1	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Bromochloromethane	74-97-5	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromoform	75-25-2	Region 5 RCRA Soil ESL	15,900.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromomethane	74-83-9	Region 5 RCRA Soil ESL	235.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Carbon Disulfide	75-15-0	Region 5 RCRA Soil ESL	94.10	µg/kg	*270 U*	*350 U*	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Carbon Tetrachloride	56-23-5	Region 5 RCRA Soil ESL	2,980.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chlorobenzene	108-90-7	Region 5 RCRA Soil ESL	13,100.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloroethane	75-00-3	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloroform	67-66-3	Region 5 RCRA Soil ESL	1,190.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloromethane	74-87-3	Region 5 RCRA Soil ESL	10,400.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
cis-1,2-Dichloroethene	156-59-2	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
ci[illegible]-Dichloropropene	10061-01-5	Region 5 RCRA Soil ESL	398.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dibromochloromethane	124-48-1	Region 5 RCRA Soil ESL	2,050.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dibromomethane	74-95-3	Region 5 RCRA Soil ESL	1,230.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dichlorobromomethane	75-27-4	Region 5 RCRA Soil ESL	540.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	Region 5 RCRA Soil ESL	39,500.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Ethylbenzene	100-41-4	Region 5 RCRA Soil ESL	5,160.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Ethylene dibromide	106-93-4	Region 5 RCRA Soil ESL	1,230.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	39.80	µg/kg	*53 U*	*70 U*	*72 U*	*58 U*	*72 U*	*74 U*	*83 U*	*63 U*	*94 U*	*58 U*	*73 U*	*56 U*	*50 U*	*77 U*	*61 U*
Isopropylbenzene	98-82-8	N/A	N/A	µg/kg	77	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Butanone (MEK)	78-93-3	Region 5 RCRA Soil ESL	89,600.00	µg/kg	68 J	70 J	69 J	160 J	73 J	72 J	96 J	66 J	97 J	70 J	78 J	59 J	57 J	76 J	75 J
Methyl tert-Butyl Ether	1634-04-4	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Methylene Chloride	75-09-2	Region 5 RCRA Soil ESL	4,050.00	µg/kg	31 J	31 J	42 J	130 J	43 J	42 J	49 J	40 J	59 J	32 J	37 J	38 J	40 J	48 J	46 J
n-Butylbenzene	104-51-8	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
n-Propylbenzene	103-65-1	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	99.40	µg/kg	5.3 J	4.2 J	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Xylene, Ortho	95-47-6	N/A	N/A	µg/kg	61	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
sec-Butylbenzene	135-98-8	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
[illegible]	100-42-5	Region 5 RCRA Soil ESL	4,690.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
tert-Butylbenzene	98-06-6	N/A	N/A	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Tetrachloroethene	127-18-4	Region 5 RCRA Soil ESL	9,920.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Toluene	108-88-3	Region 5 RCRA Soil ESL	5,450.00	µg/kg	50 J	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
trans-1,2-Dichloroethene	156-60-5	Region 5 RCRA Soil ESL	784.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
trans-1,3-Dichloropropene	10061-02-6	Region 5 RCRA Soil ESL	398.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Trichloroethene	79-01-6	Region 5 RCRA Soil ESL	12,400.00	µg/kg	28 J	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Trichlorofluoromethane	75-69-4	Region 5 RCRA Soil ESL	16,400.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Vinyl Chloride	75-01-4	Region 5 RCRA Soil ESL	646.00	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Xylene, Meta + Para	Not Applicable	Region 5 RCRA Soil ESL	6,620.00	µg/kg	34 J	140 U	140 U	340 U	140 U	150 U	170 U	130 U	190 U	120 U	150 U	110 U	100 U	150 U	120 U
Semi-Volatile Organic Compounds																			
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	11,100.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1 zphenanthracene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	65	150	320	350	82	58	17 J	49	26 J	8.9 J	14 J	19	26	99	22
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	2,960.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	37,700.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	546.00	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2,4,5-Trichlorophenol	95-95-4	Region 5 RCRA Soil ESL	14,100.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4,6-Trichlorophenol	88-06-2	Region 5 RCRA Soil ESL	9,940.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4-Dichlorophenol	120-83-2	Region 5 RCRA Soil ESL	87,500.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4-Dimethylphenol	105-67-9	Region 5 RCRA Soil ESL	10.00	µg/kg	*390 U*	*470 U*	*480 U*	*1100 U*	*520 U*	*540 U*	*550 U*	*420 U*	*630 U*	*390 U*	*490 U*	*370 U*	*360 U*	*550 U*	*410 U*
2,4-Dinitrophenol	51-28-5	Region 5 RCRA Soil ESL	60.90	µg/kg	*390 U*	*470 U*	*480 U*	*1100 U*	*520 U*	*540 U*	*550 U*	*420 U*	*630 U*	*390 U*	*490 U*	*370 U*	*360 U*	*550 U*	*410 U*
2,4-Dinitrotoluene	121-14-2	Region 5 RCRA Soil ESL	1,280.00	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
2,6-Dinitrotoluene	606-20-2	Region 5 RCRA Soil ESL	32.80	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Chloronaphthalene	91-58-7	Region 5 RCRA Soil ESL	12.20	µg/kg	*19 U*	*24 U*	*24 U*	*58 U*	*26 U*	*27 U*	*28 U*	*21 U*	*31 U*	*19 U*	*25 U*	*19 U*	*18 U*	*28 U*	*20 U*
2-Chlorophenol	95-57-8	Region 5 RCRA Soil ESL	243.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
7 dnaphthalene	91-57-6	Region 5 RCRA Soil ESL	3,240.00	µg/kg	7.2 J	4.2 J	12 J	58 U	26 U	27 U	28 U	2.9 J	3.2 J	19 U	25 U	19 U	18 U	28 U	20 U
2-Methylphenol	95-48-7	Region 5 RCRA Soil ESL	40,400.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Nitroaniline	88-74-4	Region 5 RCRA Soil ESL	74,100.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U

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Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
2-Nitrophenol	88-75-5	Region 5 RCRA Soil ESL	1,600.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
3,3´-Dichlorobenzidine	91-94-1	Region 5 RCRA Soil ESL	646.00	µg/kg	190 U	240 U	240 U	580 U	260 U	270 U	280 U	210 U	310 U	190 U	250 U	190 U	180 U	280 U	200 U
3+4-Methylphenol	108-39-4	Region 5 RCRA Soil ESL	3,490.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
3-Nitroaniline	99-09-2	Region 5 RCRA Soil ESL	3,160.00	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
4,6-Dinitro-2-methylphenol	534-52-1	Region 5 RCRA Soil ESL	144.00	µg/kg	78 U	94 U	96 U	*230 U*	100 U	110 U	110 U	84 U	130 U	78 U	98 U	74 U	72 U	110 U	81 U
4-Bromophenyl Phenyl Ether	101-55-3	N/A	N/A	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Chloroaniline	106-47-8	Region 5 RCRA Soil ESL	1,100.00	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
4-Chlorophenyl Phenyl Ether	7005-72-3	N/A	N/A	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Methylphenol	106-44-5	Region 5 RCRA Soil ESL	163,000.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Nitroaniline	100-01-6	Region 5 RCRA Soil ESL	21,900.00	µg/kg	78 U	94 U	96 U	230 U	100 U	110 U	110 U	84 U	130 U	78 U	98 U	74 U	72 U	110 U	81 U
4-[illegible]phenol	100-02-7	Region 5 RCRA Soil ESL	5,120.00	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Acenaphthene	83-32-9	Region 5 RCRA Soil ESL	682,000.00	µg/kg	19 U	4.7 J	12 J	28 J	2.6 J	3.3 J	28 U	2.5 J	31 U	19 U	25 U	19 U	18 U	3.3 J	20 U
Acenaphthylene	208-96-8	Region 5 RCRA Soil ESL	682,000.00	µg/kg	16 J	19 J	49	10 J	5.8 J	3.8 J	28 U	3.3 J	31 U	19 U	25 U	19 U	18 U	4.4 J	20 U
Anthracene	120-12-7	Region 5 RCRA Soil ESL	1,480,000.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	Region 5 RCRA Soil ESL	5,210.00	µg/kg	240	280	510	500	120	77	23 J	69	31	8.1 J	23 J	29	25	91	19 J
Benzidine	92-87-5	N/A	N/A	µg/kg	780 U	940 U	960 U	2300 U	1000 U	1100 U	1100 U	840 U	1300 U	780 U	980 U	740 U	720 U	1100 U	810 U
Benzo(a)pyrene	50-32-8	Region 5 RCRA Soil ESL	1,520.00	µg/kg	74	110	280	260	60	54	21 J	41	28 J	7.3 J	17 J	20	19	69	23
Benzo(b)fluoranthene	205-99-2	Region 5 RCRA Soil ESL	59,800.00	µg/kg	210	340	820	620	150	93	25 J	87	35	18 J	26	34	28	86	22
Benzo(g,h,i)perylene	191-24-2	Region 5 RCRA Soil ESL	119,000.00	µg/kg	40	59	220	190	56	41 J	2.2 J	9.5 J	63 U	39 U	13 J	18 J	21 J	51 J	41 U
Benzo(k)fluoranthene	207-08-9	Region 5 RCRA Soil ESL	148,000.00	µg/kg	84	94	200	200	64	52	12 J	29	16 J	5.4 J	17 J	16 J	18	54	17 J
Benzoic Acid	65-85-0	N/A	N/A	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Benzyl Alcohol	100-51-6	Region 5 RCRA Soil ESL	65,800.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	47	180	94	280	74
Bis(2-chloroethoxy)methane	111-91-1	Region 5 RCRA Soil ESL	302.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Bis(2-chloroethyl) Ether	111-44-4	Region 5 RCRA Soil ESL	23,700.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
b[illegible]loroisopropyl)ether	108-60-1	Region 5 RCRA Soil ESL	19,900.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	Region 5 RCRA Soil ESL	925.00	µg/kg	25 J	30 J	18 J	240	67	28 J	39 J	45	35 J	17 J	34 JB	99 B	180 B	47 JB	28 JB
Butyl Benzyl Phthalate	85-68-7	Region 5 RCRA Soil ESL	239.00	µg/kg	39 U	47 U	48 U	110 U	13 J	54 U	10 J	42 U	63 U	39 U	9.9 J	51	36 U	12 J	41 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Carbazole	86-74-8	N/A	N/A	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Chrysene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	65	150	320	350	82	58	17 J	49	26 J	8.9 J	14 J	19	26	99	22
Di-n-butyl Phthalate	84-74-2	Region 5 RCRA Soil ESL	150.00	µg/kg	*190 U*	40 J	*240 U*	*580 U*	*260 U*	*270 U*	*280 U*	*210 U*	*310 U*	*190 U*	38 J	47 J	33 J	96 J	55 J
Di-n-octyl Phthalate	117-84-0	Region 5 RCRA Soil ESL	709,000.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Dibenz(a,h)anthracene	53-70-3	Region 5 RCRA Soil ESL	18,400.00	µg/kg	23 J	33 J	100	96 J	39 J	54 U	55 U	42 U	63 U	39 U	49 U	9.6 J	36 U	19 J	41 U
Dibenzofuran	132-64-9	N/A	N/A	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Diethyl Phthalate	84-66-2	Region 5 RCRA Soil ESL	24,800.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Dimethyl Phthalate	131-11-3	Region 5 RCRA Soil ESL	734,000.00	µg/kg	19 U	2.3 J	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Fluoranthene	206-44-0	Region 5 RCRA Soil ESL	122,000.00	µg/kg	250	350	1100	750	170	110	34	100	44	15 J	17 J	32	33	150	30
Fluorene	86-73-7	Region 5 RCRA Soil ESL	122,000.00	µg/kg	19 U	24 U	31	35 J	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
H[illegible]orobenzene	118-74-1	Region 5 RCRA Soil ESL	199.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	39.80	µg/kg	*53 U*	*70 U*	*72 U*	*58 U*	*72 U*	*74 U*	*83 U*	*63 U*	*94 U*	*58 U*	*73 U*	*56 U*	*50 U*	*77 U*	*61 U*
Hexachlorocyclopentadiene	77-47-4	Region 5 RCRA Soil ESL	755.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Hexachloroethane	67-72-1	Region 5 RCRA Soil ESL	596.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Indeno(1,2,3-cd)pyrene	193-39-5	Region 5 RCRA Soil ESL	109,000.00	µg/kg	69	86	220	210	41 J	26 J	11 J	27 J	63 U	39 U	14 J	20 J	7.9 J	40 J	6.2 J
Isophorone	78-59-1	Region 5 RCRA Soil ESL	139,000.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
N-Nitroso-di-n-propylamine	621-64-7	Region 5 RCRA Soil ESL	544.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
N-Nitroso-diphenylamine	86-30-6	Region 5 RCRA Soil ESL	545.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	99.40	µg/kg	5.3 J	4.2 J	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Nitrobenzene	98-95-3	Region 5 RCRA Soil ESL	1,310.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
p-Chloro-m-cresol	59-50-7	Region 5 RCRA Soil ESL	7,950.00	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Pentachlorophenol	87-86-5	Region 5 RCRA Soil ESL	119.00	µg/kg	*190 U*	*240 U*	*240 U*	*580 U*	*260 U*	*270 U*	*280 U*	*210 U*	*310 U*	*190 U*	*250 U*	*190 U*	*180 U*	*280 U*	*200 U*
Phenanthrene	85-01-8	Region 5 RCRA Soil ESL	45,700.00	µg/kg	42	69	260	430	72	56	13 J	40	22 J	8.9 J	16 J	21	15 J	120	16 J
P[illegible]	108-95-2	Region 5 RCRA Soil ESL	120,000.00	µg/kg	190 U	240 U	240 U	580 U	260 U	270 U	280 U	210 U	310 U	190 U	250 U	190 U	180 U	280 U	200 U
PNAs Total	TPNA	N/A	N/A	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	Region 5 RCRA Soil ESL	78,500.00	µg/kg	270	410	1100	850	180	140	38	120	51	20	26	36	40	170	39

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
LMW PAHs		Most Restrictive Eco-SSL TRV	29000 Soil Inv.	µg/kg	70.5	101.1	364	503	80.4	63.1	13	48.7	25.2	8.9	16	21	15	127.7	16
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	1325	1912	4870	4026	962	651	183.2	531.5	231	82.7	167	233.6	217.9	829	178.2
Total PAHs		N/A	N/A	µg/kg	1395.5	2013.1	5234	4529	1042.4	714.1	196.2	580.2	256.2	91.6	183	254.6	232.9	956.7	194.2
PCBs																			
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	48 J	32 J	69 J	*1100 U*	71 J	54 J	*550 U*	45 J	*620 U*	*380 U*	*480 U*	51 J	*360 U*	13 J	*400 U*
PCB-1016	12674-11-2	N/A	N/A	µg/kg	20 J	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1221	11104-28-2	N/A	N/A	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1232	11141-16-5	N/A	N/A	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1242	53469-21-9	N/A	N/A	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1248	12672-29-6	N/A	N/A	µg/kg	20 J	18 J	48 J	1100 U	41 J	23 J	550 U	25 J	620 U	380 U	480 U	22 J	360 U	13 J	400 U
PCB-1254	11097-69-1	N/A	N/A	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1260	11096-82-5	N/A	N/A	µg/kg	8.0 J	14 J	21 J	1100 U	30 J	31 J	550 U	20 J	620 U	380 U	480 U	29 J	360 U	540 U	400 U
Total Metals																			
Aluminum, Total	7429-90-5	State Wide Default Background Levels (Part 201)	6900 ** NBA	mg/kg	4800	6500	6300	4600	9500	11000	5000	4800	5800	3400	7200	4300	3100	13000	3000
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	6.7	15	19	15	21	25	13	11	9.8	4.5	8.3	6.0	6.5	35	5.0
Barium, Total	7440-39-3	Most Restrictive Eco-SSL TRV	330 Soil Invert.	mg/kg	43	87	130	78	170	150	75	58	79	35	86	30	31	220	29
Cadmium, Total	7440-43-9	State Wide Default Background Levels (Part 201)	1.2	mg/kg	0.16	0.47	0.52	0.27	0.73	0.78	0.33	0.36	0.4	0.23	0.45	0.22	0.20	0.93	0.17
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	61	55	68	10	180	330	56	45	35	14	39	26	42	340	33
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	86	56	72	11	100	150	29	35	25	12	22	17	27	150	20
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	16	23	24	7.4	31	35	13	14	18	5.7	16	24	24	43	8.0
Mercury, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.045 J	0.14	0.13	0.076	0.25	0.24	0.075	0.084	0.060	0.021 J	0.085	0.021 J	0.034 J	0.27	0.024 J
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	59	32	43	9.5	53	69	18	21	18	9.4	13	13	16	73	12
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.31	0.67	0.76	0.47	0.87	0.94	0.46	0.53	0.64	0.35	0.66	0.24	0.27	0.98	0.27
Silver, Total	7440-22-4	Most Restrictive Eco-SSL TRV	4.2 Avian	mg/kg	0.052	0.071	0.065	0.036 J	0.078	0.091	0.042 J	0.055	0.058	0.035 J	0.10	0.044 J	0.048 J	0.15	0.038 J
Zinc, Total	7440-66-6	Saturated Soil Eco-SSL TRV	950 Avian Herbivore (Dove)	mg/kg	160	440	210	52	340	570	110	100	87	33	69	62	81	310	45
Chromium, Hexavalent	18540-29-9	Most Restrictive Eco-SSL TRV	130 Mam.	mg/kg	2.3 U	2.8 U	2.9 U	6.9 U	3.1 U	3.3 U	3.1 U	2.5 U	3.8 U	2.2 U	2.9 U	2.1 U	2.0 U	3.0 U	0.64 J
Misc																			

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	NA	1.4	NA	NA	1.1	1.2	NA	NA	NA	NA	1.4	NA	NA	0.99	
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.12 U	0.16	0.12 J	0.34 U	0.60	0.89	0.13 J	0.12 J	0.19 U	0.12 U	0.17	0.11 U	0.11 U	0.45	0.12 U

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Indicates HMW PAH	High Molecular Weight Polycylic Aromatic Hydrocarbon
Indicates LMW PAH	Low Molecular Weight Polycylic Aromatic Hydrocarbon
Exceed screening criteria	

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	630-20-6	Region 5 RCRA Soil ESL	**225,000.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,1-Trichloroethane	71-55-6	Region 5 RCRA Soil ESL	**29,800.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,2,2-Tetrachloroethane	79-34-5	Region 5 RCRA Soil ESL	**127.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,2-Trichloroethane	79-00-5	Region 5 RCRA Soil ESL	**28,600.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloroethane	75-34-3	Region 5 RCRA Soil ESL	**20,100.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloroethene	75-35-4	Region 5 RCRA Soil ESL	**8,280.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloropropene	563-58-6	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,3-Trichlorobenzene	87-61-6	N/A	**N/A**	µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
1,2,3-Trichloropropane	96-18-4	Region 5 RCRA Soil ESL	**3,360.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	**11,100.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,4-Trimethylbenzene	95-63-6	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dibromo-3-chloropropane	96-12-8	Region 5 RCRA Soil ESL	**35.20**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	**2,960.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichloroethane	107-06-2	Region 5 RCRA Soil ESL	**21,200.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichloroethene (Total)	540-59-0	Region 5 RCRA Soil ESL	**398.00**	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	78-87-5	Region 5 RCRA Soil ESL	**32,700.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,3,5-Trimethylbenzene	108-67-8	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	**37,700.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,3-Dichloropropane	142-28-9	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	**546.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2,2-Dichloropropane	594-20-7	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Chlorotoluene	95-49-8	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Hexanone	591-78-6	Region 5 RCRA Soil ESL	**12,600.00**	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
4-Chlorotoluene	106-43-4	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
4-Isopropyltoluene	99-87-6	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
4-Methyl-2-pentanone (MIBK)	108-10-1	Region 5 RCRA Soil ESL	**443,000.00**	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Acetone	67-64-1	Region 5 RCRA Soil ESL	**2,500.00**	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Acrolein	107-02-8	Region 5 RCRA Soil ESL	**5,270.00**	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	Region 5 RCRA Soil ESL	**255.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromobenzene	108-86-1	N/A	**N/A**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Bromochloromethane	74-97-5	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromoform	75-25-2	Region 5 RCRA Soil ESL	**15,900.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromomethane	74-83-9	Region 5 RCRA Soil ESL	**235.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Carbon Disulfide	75-15-0	Region 5 RCRA Soil ESL	**94.10**	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Carbon Tetrachloride	56-23-5	Region 5 RCRA Soil ESL	**2,980.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chlorobenzene	108-90-7	Region 5 RCRA Soil ESL	**13,100.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloroethane	75-00-3	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloroform	67-66-3	Region 5 RCRA Soil ESL	**1,190.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloromethane	74-87-3	Region 5 RCRA Soil ESL	**10,400.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
cis-1,2-Dichloroethene	156-59-2	N/A	N/A	µg/kg	56 U	54 U	26 J	96	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
c[illegible] Dichloropropene	10061-01-5	Region 5 RCRA Soil ESL	**398.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dibromochloromethane	124-48-1	Region 5 RCRA Soil ESL	**2,050.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dibromomethane	74-95-3	Region 5 RCRA Soil ESL	**1,230.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dichlorobromomethane	75-27-4	Region 5 RCRA Soil ESL	**540.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dichlorodifluoromethane	75-71-8	Region 5 RCRA Soil ESL	**39,500.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Ethylbenzene	100-41-4	Region 5 RCRA Soil ESL	**5,160.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	110 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Ethylene dibromide	106-93-4	Region 5 RCRA Soil ESL	**1,230.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	**39.80**	µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
Isopropylbenzene	98-82-8	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Butanone (MEK)	78-93-3	Region 5 RCRA Soil ESL	**89,600.00**	µg/kg	130 J	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Methyl tert-Butyl Ether	1634-04-4	N/A	N/A	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Methylene Chloride	75-09-2	Region 5 RCRA Soil ESL	**4,050.00**	µg/kg	14 J	34 U	67	61	54 U	56 U	62 U	56 U	380 U	150 U	180 U	260 U	260 U	280 U	300 U	59 U	120 U	460 U	280 U	290 U	120 U
n-Butylbenzene	104-51-8	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
n-Propylbenzene	103-65-1	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	**99.40**	µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
Xylene, Ortho	95-47-6	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
sec-Butylbenzene	135-98-8	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
[illegible]	100-42-5	Region 5 RCRA Soil ESL	**4,690.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
tert-Butylbenzene	98-06-6	N/A	N/A	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Tetrachloroethene	127-18-4	Region 5 RCRA Soil ESL	**9,920.00**	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
					OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL																			
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Toluene	108-88-3	Region 5 RCRA Soil ESL	5,450.00	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	49 J	NA	NA	53 U	51 U	57 U	61 U	32 J	NA	64 J	32 J	33 J	NA
trans-1,2-Dichloroethene	156-60-5	Region 5 RCRA Soil ESL	784.00	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
trans-1,3-Dichloropropene	10061-02-6	Region 5 RCRA Soil ESL	398.00	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Trichloroethene	79-01-6	Region 5 RCRA Soil ESL	12,400.00	µg/kg	56 U	54 U	130	29 J	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Trichlorofluoromethane	75-69-4	Region 5 RCRA Soil ESL	16,400.00	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Vinyl Chloride	75-01-4	Region 5 RCRA Soil ESL	646.00	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Xylene, Meta + Para	Not Applicable	Region 5 RCRA Soil ESL	6,620.00	µg/kg	110 U	110 U	110 U	100 U	110 U	110 U	120 U	110 U	150 U	150 U	180 U	110 U	100 U	57 U	120 U	120 U	120 U	180 U	110 U	120 U	120 U
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	11,100.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1 [illegible]phenanthracene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	59 J	330 U	330 U	13 J	330 U	330 U	330 U	330 U	330 U	330 U
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	2,960.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	37,700.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	546.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,5-Trichlorophenol	95-95-4	Region 5 RCRA Soil ESL	14,100.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	88-06-2	Region 5 RCRA Soil ESL	9,940.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	120-83-2	Region 5 RCRA Soil ESL	87,500.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	105-67-9	Region 5 RCRA Soil ESL	10.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	51-28-5	Region 5 RCRA Soil ESL	60.90	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrotoluene	121-14-2	Region 5 RCRA Soil ESL	1,280.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	Region 5 RCRA Soil ESL	32.80	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	91-58-7	Region 5 RCRA Soil ESL	12.20	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	95-57-8	Region 5 RCRA Soil ESL	243.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2 [illegible]lnaphthalene	91-57-6	Region 5 RCRA Soil ESL	3,240.00	µg/kg	330 U	330 U	4 J	6 J	16 J	330 U	330 U	330 U	330 U	330 U	330 U	4.3 J	330 U	3.8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylphenol	95-48-7	Region 5 RCRA Soil ESL	40,400.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Nitroaniline	88-74-4	Region 5 RCRA Soil ESL	74,100.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
2-Nitrophenol	88-75-5	Region 5 RCRA Soil ESL	1,600.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
3,3´-Dichlorobenzidine	91-94-1	Region 5 RCRA Soil ESL	646.00	µg/kg	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3+4-Methylphenol	108-39-4	Region 5 RCRA Soil ESL	3,490.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	Region 5 RCRA Soil ESL	3,160.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	534-52-1	Region 5 RCRA Soil ESL	144.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl Phenyl Ether	101-55-3	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Chloroaniline	106-47-8	Region 5 RCRA Soil ESL	1,100.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl Phenyl Ether	7005-72-3	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Methylphenol	106-44-5	Region 5 RCRA Soil ESL	163,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Nitroaniline	100-01-6	Region 5 RCRA Soil ESL	21,900.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4- [illegible]phenol	100-02-7	Region 5 RCRA Soil ESL	5,120.00	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	83-32-9	Region 5 RCRA Soil ESL	682,000.00	µg/kg	330 U	330 U	3 J	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	208-96-8	Region 5 RCRA Soil ESL	682,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.6 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	120-12-7	Region 5 RCRA Soil ESL	1,480,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	32 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(a)anthracene	56-55-3	Region 5 RCRA Soil ESL	5,210.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	94 J	38 J	38 J	43 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzidine	92-87-5	N/A	N/A	µg/kg	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	50-32-8	Region 5 RCRA Soil ESL	1,520.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	96 J	43 J	330 U	52 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(b)fluoranthene	205-99-2	Region 5 RCRA Soil ESL	59,800.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	140 J	330 U	330 U	84 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(g,h,i)perylene	191-24-2	Region 5 RCRA Soil ESL	119,000.00	µg/kg	330 U	330 U	10 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	40 J	16 J	330 U	20 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	207-08-9	Region 5 RCRA Soil ESL	148,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	30 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzoic Acid	65-85-0	N/A	N/A	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	210 J	3300 U	3300 U	3300 U
Benzyl Alcohol	100-51-6	Region 5 RCRA Soil ESL	65,800.00	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
Bis(2-chloroethoxy)methane	111-91-1	Region 5 RCRA Soil ESL	302.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Bis(2-chloroethyl) Ether	111-44-4	Region 5 RCRA Soil ESL	23,700.00	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
[illegible]hloroisopropyl)ether	108-60-1	Region 5 RCRA Soil ESL	19,900.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Bis(2-ethylhexyl) Phthalate	117-81-7	Region 5 RCRA Soil ESL	925.00	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	85-68-7	Region 5 RCRA Soil ESL	239.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Carbazole	86-74-8	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Chrysene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	59 J	330 U	330 U	13 J	330 U	330 U	330 U	330 U	330 U	330 U
Di-n-butyl Phthalate	84-74-2	Region 5 RCRA Soil ESL	150.00	µg/kg	83 J	53 J	50 J	52 J	48 J	50 J	89 J	63 J	38 J	270 J	92 J	49 J	44 J	57 J	65 J	33 J	380	49 J	36 J	36 J	220 J
Di-n-octyl Phthalate	117-84-0	Region 5 RCRA Soil ESL	709,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	53-70-3	Region 5 RCRA Soil ESL	18,400.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	61 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	132-64-9	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Diethyl Phthalate	84-66-2	Region 5 RCRA Soil ESL	24,800.00	µg/kg	5.8 J	330 U	330 U	330 U	330 U	330 U	5 J	5 J	330 U	4 J	6 J	3.1 J	2.6 J	3.2 J	2.9 J	3 J	4 J	3 J	3 J	330 U	4 J
Dimethyl Phthalate	131-11-3	Region 5 RCRA Soil ESL	734,000.00	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
Fluoranthene	206-44-0	Region 5 RCRA Soil ESL	122,000.00	µg/kg	330 U	330 U	4 J	4 J	330 U	8 J	330 U	16 J	330 U	5 J	10 J	210 J	24 J	10 J	35 J	5 J	3 J	330 U	330 U	330 U	330 U
Fluorene	86-73-7	Region 5 RCRA Soil ESL	122,000.00	µg/kg	330 U	330 U	2 J	3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	9.4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
H[illegible]lorobenzene	118-74-1	Region 5 RCRA Soil ESL	199.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	39.80	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorocyclopentadiene	77-47-4	Region 5 RCRA Soil ESL	755.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachloroethane	67-72-1	Region 5 RCRA Soil ESL	596.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	193-39-5	Region 5 RCRA Soil ESL	109,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	69 J	48 J	330 U	54 J	330 U	330 U	330 U	330 U	330 U	330 U
Isophorone	78-59-1	Region 5 RCRA Soil ESL	139,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-n-propylamine	621-64-7	Region 5 RCRA Soil ESL	544.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-diphenylamine	86-30-6	Region 5 RCRA Soil ESL	545.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	99.40	µg/kg	330 U	330 U	330 U	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.2 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Nitrobenzene	98-95-3	Region 5 RCRA Soil ESL	1,310.00	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	59-50-7	Region 5 RCRA Soil ESL	7,950.00	µg/kg	330 U	20 J	29 J	30 J	330 U	26 J	45 J	15 J	11 J	40 J	51 J	18 J	12 J	17 J	10 J	16 J	41 J	16 J	11 J	10 J	38 J
Pentachlorophenol	87-86-5	Region 5 RCRA Soil ESL	119.00	µg/kg	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
Phenanthrene	85-01-8	Region 5 RCRA Soil ESL	45,700.00	µg/kg	330 U	330 U	4 J	6 J	8 J	10 J	330 U	8 J	330 U	3 J	330 U	110 J	12 J	3.4 J	11 J	330 U	330 U	330 U	330 U	330 U	330 U
P[illegible]	108-95-2	Region 5 RCRA Soil ESL	120,000.00	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PNAs Total	TPNA	N/A	N/A	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	Region 5 RCRA Soil ESL	78,500.00	µg/kg	330 U	330 U	7 J	7 J	5 J	17 J	3 J	12 J	330 U	6 J	330 U	160 J	19 J	9 J	28 J	4 J	4 J	330 U	330 U	330 U	330 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
LMW PAHs		Most Restrictive Eco-SSL TRV	29000 Soil Inv.	µg/kg	330 U	330 U	13	23	24	10	330 U	8	330 U	3	330 U	168.6	12	7.2	11	330 U	330 U	330 U	330 U	330 U	330 U
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	330 U	330 U	21	11	5	40	3	28	330 U	11	10	959	188	57	329	9	7	330 U	330 U	330 U	330 U
Total PAHs		N/A	N/A	µg/kg	330 U	330 U	34	34	29	50	3	36	330 U	14	10	1127.6	200	64.2	340	9	7	330 U	330 U	330 U	330 U
PCBs																									
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	NA	NA	8.6 J	8.1 J	19 J	8.1 J	330 U	330 U	330 U	330 U	18 J	190 J	8.8 J	330 U	330 U	330 U	330 U	330 U	9.3 J	330 U	330 U
PCB-1016	12674-11-2	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1221	11104-28-2	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1232	11141-16-5	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1242	53469-21-9	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1248	12672-29-6	N/A	N/A	µg/kg	330 U	330 U	8.6 J	8.1 J	19 J	8.1 J	330 U	330 U	330 U	330 U	18 J	190 J	8.8 J	330 U	330 U	330 U	330 U	330 U	9.3 J	330 U	330 U
PCB-1254	11097-69-1	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1260	11096-82-5	N/A	N/A	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	27 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Total Metals																									
Aluminum, Total	7429-90-5	State Wide Default Background Levels (Part 201)	6900 ** NBA	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	3.5	4.9	11	5.6	14	10	18	1.9	3.6	26	26	5.5	18	15	9	5.4	10	16	22	35	3
Barium, Total	7440-39-3	Most Restrictive Eco-SSL TRV	330 Soil Invert.	mg/kg	15	6.5	37	26	18	30	11	6	26	104	230	27	17	74	20	23	76	29	10	11	14
Cadmium, Total	7440-43-9	State Wide Default Background Levels (Part 201)	1.2	mg/kg	0.058	0.022 J	0.074	0.1	0.079	0.065	0.088	0.036 J	0.039 J	0.18	0.54	0.11	0.082	0.24	0.091	0.068	0.24	0.083	0.041 J	0.043 J	0.038 J
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	32	5.5	12	11	7.5	14	5.1	5.6	3.8	10	71	38	10	13	12	11	8.4	7.5	6.3	19	10
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	40	4.6	13	8.1	7.2	17	9.2	12	1.7	8.4	69	37	5.9	8.8	7.7	5	6.8	4.5	3.3	2.2	3.2
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	6.5	3.1	5.4	4.7	4.2	5	3.9	1.8	0.85 J	6.3	19	6.3	7.5	4.5	4.3	3.2	4.3	2	1.8	2.4	1.4
Mercury, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.027 J	0.075 J	0.0082 J	0.1 U	0.041 J	0.014 J	0.01 J	0.037 J	0.1 U	0.1 U	0.1 U	0.1 U
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	66	26	13	13	11	21	12	5.1	3.8	10	40	26	7.6	8.8	7.8	8.7	7.3	7.8	6.2	14	8.6
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.81	0.14 J	0.26	0.23	0.24	0.31	0.28	0.12 J	0.2 J	0.27 U	0.38 U	0.22 U	0.22	0.25 U	0.22 J	0.24 U	0.25 U	0.22 J	0.097 J	0.19 J	0.13 J
Silver, Total	7440-22-4	Most Restrictive Eco-SSL TRV	4.2 Avian	mg/kg	0.045 J	0.016 J	0.067 J	0.057 J	0.049 J	0.078 J	0.03 J	0.023 J	0.018 J	0.055 J	0.11 J	0.039 J	0.045 J	0.048 J	0.033 J	0.05 J	0.053 J	0.041 J	0.092 J	0.11 J	0.025 J
Zinc, Total	7440-66-6	Saturated Soil Eco-SSL TRV	950 Avian Herbivore (Dove)	mg/kg	41	147	26	28	22	31	20	14	9.4	28	341	126	25	37	33	15	30	19	14	8.8	13
Chromium, Hexavalent	18540-29-9	Most Restrictive Eco-SSL TRV	130 Mam.	mg/kg	0.55 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.7 J	27 U	1.3 J	2 U	0.87 J	0.29 J	31 U	1.3 J	2 U	2 U	2 U	1.3 J
Misc																									

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.2 U	0.04 J	0.2 U	0.05 J	0.04 J	0.12 J	0.93	1.9	0.2 U	0.24	0.23	0.13 J	0.1 J	0.2 U	0.2 U	0.2 U	0.12 J	0.033 J	0.2 U	0.2 U	0.036 J

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Indicates HMW PAH	High Molecular Weight Polycylic Aromatic Hydrocarbon
Indicates LMW PAH	Low Molecular Weight Polycylic Aromatic Hydrocarbon
Exceed screening criteria	

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	Region 5 RCRA Soil ESL	225,000.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,1-Trichloroethane	71-55-6	Region 5 RCRA Soil ESL	29,800.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,2,2-Tetrachloroethane	79-34-5	Region 5 RCRA Soil ESL	127.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,2-Trichloroethane	79-00-5	Region 5 RCRA Soil ESL	28,600.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloroethane	75-34-3	Region 5 RCRA Soil ESL	20,100.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloroethene	75-35-4	Region 5 RCRA Soil ESL	8,280.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloropropene	563-58-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,3-Trichlorobenzene	87-61-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,3-Trichloropropane	96-18-4	Region 5 RCRA Soil ESL	3,360.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	11,100.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3,5-Trimethylbenzene	95-63-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dibromo-3-chloropropane	96-12-8	Region 5 RCRA Soil ESL	35.20	µg/kg	*310 U*	*480 U*	*420 U*	*420 U*	*490 U*	*400 U*	*360 U*
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	2,960.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dichloroethane	107-06-2	Region 5 RCRA Soil ESL	21,200.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dichloroethene (Total)	540-59-0	Region 5 RCRA Soil ESL	398.00	µg/kg	120 U	190 U	170 U	170 U	200 U	160 U	140 U
1,2-Dichloropropane	78-87-5	Region 5 RCRA Soil ESL	32,700.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3,5-Trimethylbenzene	108-67-8	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	37,700.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3-Dichloropropane	142-28-9	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	546.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2,2-Dichloropropane	594-20-7	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Chlorotoluene	95-49-8	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Hexanone	591-78-6	Region 5 RCRA Soil ESL	12,600.00	µg/kg	3100 U	4800 U	4200 U	4200 U	4900 U	4000 U	3600 U
4-Chlorotoluene	106-43-4	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
4-Isopropyltoluene	99-87-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
4-Methyl-2-pentanone (MIBK)	108-10-1	Region 5 RCRA Soil ESL	443,000.00	µg/kg	3100 U	4800 U	4200 U	4200 U	4900 U	4000 U	3600 U
Acetone	67-64-1	Region 5 RCRA Soil ESL	2,500.00	µg/kg	200 J	1400 U	150 J	1300 U	1500 U	1200 U	1100 U
Acrolein	107-02-8	Region 5 RCRA Soil ESL	5,270.00	µg/kg	310 U	480 U	420 U	420 U	490 U	400 U	360 U
Benzene	71-43-2	Region 5 RCRA Soil ESL	255.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromobenzene	108-86-1	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	**Screening Criteria Source**	**Screening Criteria Value**	**Units**							
Bromochloromethane	74-97-5	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromoform	75-25-2	Region 5 RCRA Soil ESL	**15,900.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromomethane	74-83-9	Region 5 RCRA Soil ESL	**235.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Carbon Disulfide	75-15-0	Region 5 RCRA Soil ESL	**94.10**	µg/kg	*310 U*	*480 U*	*420 U*	*420 U*	*490 U*	*400 U*	*360 U*
Carbon Tetrachloride	56-23-5	Region 5 RCRA Soil ESL	**2,980.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chlorobenzene	108-90-7	Region 5 RCRA Soil ESL	**13,100.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloroethane	75-00-3	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloroform	67-66-3	Region 5 RCRA Soil ESL	**1,190.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloromethane	74-87-3	Region 5 RCRA Soil ESL	**10,400.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
cis-1,2-Dichloroethene	156-59-2	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
c[illegible] Dichloropropene	10061-01-5	Region 5 RCRA Soil ESL	**398.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dibromochloromethane	124-48-1	Region 5 RCRA Soil ESL	**2,050.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dibromomethane	74-95-3	Region 5 RCRA Soil ESL	**1,230.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dichlorobromomethane	75-27-4	Region 5 RCRA Soil ESL	**540.00**	µg/kg	NA		NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	Region 5 RCRA Soil ESL	**39,500.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Ethylbenzene	100-41-4	Region 5 RCRA Soil ESL	**5,160.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Ethylene dibromide	106-93-4	Region 5 RCRA Soil ESL	**1,230.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	**39.80**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Isopropylbenzene	98-82-8	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Butanone (MEK)	78-93-3	Region 5 RCRA Soil ESL	**89,600.00**	µg/kg	70 J	93 J	83 J	86 J	88 J	78 J	60 J
Methyl tert-Butyl Ether	1634-04-4	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Methylene Chloride	75-09-2	Region 5 RCRA Soil ESL	**4,050.00**	µg/kg	50 J	110 J	42 J	54 J	59 J	55 J	85 J
n-Butylbenzene	104-51-8	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
n-Propylbenzene	103-65-1	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	**99.40**	µg/kg	4.9 J	480 U	420 U	420 U	490 U	400 U	360 U
Xylene, Ortho	95-47-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
sec-Butylbenzene	135-98-8	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
S[illegible]	100-42-5	Region 5 RCRA Soil ESL	**4,690.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
tert-Butylbenzene	98-06-6	N/A	N/A	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Tetrachloroethene	127-18-4	Region 5 RCRA Soil ESL	**9,920.00**	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
Toluene	108-88-3	Region 5 RCRA Soil ESL	5,450.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
trans-1,2-Dichloroethene	156-60-5	Region 5 RCRA Soil ESL	784.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
trans-1,3-Dichloropropene	10061-02-6	Region 5 RCRA Soil ESL	398.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Trichloroethene	79-01-6	Region 5 RCRA Soil ESL	12,400.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Trichlorofluoromethane	75-69-4	Region 5 RCRA Soil ESL	16,400.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Vinyl Chloride	75-01-4	Region 5 RCRA Soil ESL	646.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Xylene, Meta + Para	Not Applicable	Region 5 RCRA Soil ESL	6,620.00	µg/kg	120 U	190 U	170 U	170 U	200 U	160 U	140 U
Semi-Volatile Organic Compounds											
1,2,4-Trichlorobenzene	120-82-1	Region 5 RCRA Soil ESL	11,100.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1 zphenanthracene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	190	160	140	95	230	190	170
1,2-Dichlorobenzene	95-50-1	Region 5 RCRA Soil ESL	2,960.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3-Dichlorobenzene	541-73-1	Region 5 RCRA Soil ESL	37,700.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,4-Dichlorobenzene	106-46-7	Region 5 RCRA Soil ESL	546.00	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2,4,5-Trichlorophenol	95-95-4	Region 5 RCRA Soil ESL	14,100.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4,6-Trichlorophenol	88-06-2	Region 5 RCRA Soil ESL	9,940.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4-Dichlorophenol	120-83-2	Region 5 RCRA Soil ESL	87,500.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4-Dimethylphenol	105-67-9	Region 5 RCRA Soil ESL	10.00	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
2,4-Dinitrophenol	51-28-5	Region 5 RCRA Soil ESL	60.90	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
2,4-Dinitrotoluene	121-14-2	Region 5 RCRA Soil ESL	1,280.00	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
2,6-Dinitrotoluene	606-20-2	Region 5 RCRA Soil ESL	32.80	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Chloronaphthalene	91-58-7	Region 5 RCRA Soil ESL	12.20	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Chlorophenol	95-57-8	Region 5 RCRA Soil ESL	243.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2 ylnaphthalene	91-57-6	Region 5 RCRA Soil ESL	3,240.00	µg/kg	4.0 J	35 U	28 U	28 U	3.3 J	2.9 J	2.4 J
2-Methylphenol	95-48-7	Region 5 RCRA Soil ESL	40,400.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Nitroaniline	88-74-4	Region 5 RCRA Soil ESL	74,100.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
2-Nitrophenol	88-75-5	Region 5 RCRA Soil ESL	1,600.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
3,3'-Dichlorobenzidine	91-94-1	Region 5 RCRA Soil ESL	646.00	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
3+4-Methylphenol	108-39-4	Region 5 RCRA Soil ESL	3,490.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
3-Nitroaniline	99-09-2	Region 5 RCRA Soil ESL	3,160.00	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
4,6-Dinitro-2-methylphenol	534-52-1	Region 5 RCRA Soil ESL	144.00	µg/kg	88 U	140 U	110 U	110 U	130 U	110 U	96 U
4-Bromophenyl Phenyl Ether	101-55-3	N/A	N/A	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Chloroaniline	106-47-8	Region 5 RCRA Soil ESL	1,100.00	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
4-Chlorophenyl Phenyl Ether	7005-72-3	N/A	N/A	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Methylphenol	106-44-5	Region 5 RCRA Soil ESL	163,000.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Nitroaniline	100-01-6	Region 5 RCRA Soil ESL	21,900.00	µg/kg	88 U	140 U	110 U	110 U	130 U	110 U	96 U
4-. ›phenol	100-02-7	Region 5 RCRA Soil ESL	5,120.00	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Acenaphthene	83-32-9	Region 5 RCRA Soil ESL	682,000.00	µg/kg	13 J	6.3 J	12 J	6.2 J	9.3 J	8.0 J	7.1 J
Acenaphthylene	208-96-8	Region 5 RCRA Soil ESL	682,000.00	µg/kg	12 J	4.2 J	8.9 J	5.6 J	9.9 J	8.0 J	6.6 J
Anthracene	120-12-7	Region 5 RCRA Soil ESL	1,480,000.00	µg/kg	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	Region 5 RCRA Soil ESL	5,210.00	µg/kg	250	140	210	100	250	200	180
Benzidine	92-87-5	N/A	N/A	µg/kg	880 U	1400 U	1100 U	1100 U	1300 U	1100 U	960 U
Benzo(a)pyrene	50-32-8	Region 5 RCRA Soil ESL	1,520.00	µg/kg	140	130	130	81	220	210	170
Benzo(b)fluoranthene	205-99-2	Region 5 RCRA Soil ESL	59,800.00	µg/kg	280	210	190	110	350	350	250
Benzo(g,h,i)perylene	191-24-2	Region 5 RCRA Soil ESL	119,000.00	µg/kg	90	91	86	43 J	120	110	93
Benzo(k)fluoranthene	207-08-9	Region 5 RCRA Soil ESL	148,000.00	µg/kg	88	93	100	52	120	130	98
Benzoic Acid	65-85-0	N/A	N/A	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Benzyl Alcohol	100-51-6	Region 5 RCRA Soil ESL	65,800.00	µg/kg	140	130	210	300	200	150	59
Bis(2-chloroethoxy)methane	111-91-1	Region 5 RCRA Soil ESL	302.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Bis(2-chloroethyl) Ether	111-44-4	Region 5 RCRA Soil ESL	23,700.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
1 ›loroisopropyl)ether	108-60-1	Region 5 RCRA Soil ESL	19,900.00	µg/kg	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	Region 5 RCRA Soil ESL	925.00	µg/kg	35 JB	66 JB	63 B	51 JB	71	52 J	42 JB
Butyl Benzyl Phthalate	85-68-7	Region 5 RCRA Soil ESL	239.00	µg/kg	7.2 J	21 J	45 J	56 U	14 J	15 J	48 U

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
Carbazole	86-74-8	N/A	N/A	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Chrysene	218-01-9	Region 5 RCRA Soil ESL	4,730.00	µg/kg	190	160	140	95	230	190	170
Di-n-butyl Phthalate	84-74-2	Region 5 RCRA Soil ESL	150.00	µg/kg	220 U	350 U	42 J	280 U	330 U	280 U	240 U
Di-n-octyl Phthalate	117-84-0	Region 5 RCRA Soil ESL	709,000.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Dibenz(a,h)anthracene	53-70-3	Region 5 RCRA Soil ESL	18,400.00	µg/kg	22 J	31 J	39 J	56 U	32 J	33 J	24 J
Dibenzofuran	132-64-9	N/A	N/A	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Diethyl Phthalate	84-66-2	Region 5 RCRA Soil ESL	24,800.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Dimethyl Phthalate	131-11-3	Region 5 RCRA Soil ESL	734,000.00	µg/kg	22 U	35 U	7.2 J	28 U	33 U	28 U	24 U
Fluoranthene	206-44-0	Region 5 RCRA Soil ESL	122,000.00	µg/kg	470	270	340	160	510	340	330
Fluorene	86-73-7	Region 5 RCRA Soil ESL	122,000.00	µg/kg	25	35 U	17 J	28 U	29 J	18 J	15 J
Hexachlorobenzene	118-74-1	Region 5 RCRA Soil ESL	199.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Hexachlorobutadiene	87-68-3	Region 5 RCRA Soil ESL	39.80	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Hexachlorocyclopentadiene	77-47-4	Region 5 RCRA Soil ESL	755.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Hexachloroethane	67-72-1	Region 5 RCRA Soil ESL	596.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Indeno(1,2,3-cd)pyrene	193-39-5	Region 5 RCRA Soil ESL	109,000.00	µg/kg	70	91	72	51 J	110	120	83
Isophorone	78-59-1	Region 5 RCRA Soil ESL	139,000.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
N-Nitroso-di-n-propylamine	621-64-7	Region 5 RCRA Soil ESL	544.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
N-Nitroso-diphenylamine	86-30-6	Region 5 RCRA Soil ESL	545.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Naphthalene	91-20-3	Region 5 RCRA Soil ESL	99.40	µg/kg	4.9 J	480 U	420 U	420 U	490 U	400 U	360 U
Nitrobenzene	98-95-3	Region 5 RCRA Soil ESL	1,310.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
p-Chloro-m-cresol	59-50-7	Region 5 RCRA Soil ESL	7,950.00	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Pentachlorophenol	87-86-5	Region 5 RCRA Soil ESL	119.00	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
Phenanthrene	85-01-8	Region 5 RCRA Soil ESL	45,700.00	µg/kg	360	150	240	130	340	250	240
Phenol	108-95-2	Region 5 RCRA Soil ESL	120,000.00	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
PNAs Total	TPNA	N/A	N/A	µg/kg	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	Region 5 RCRA Soil ESL	78,500.00	µg/kg	510	320	380	180	500	380	350

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
LMW PAHs		Most Restrictive Eco-SSL TRV	29000 Soil Inv.	µg/kg	418.9	160.5	277.9	141.8	391.5	286.9	271.1
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	2110	1536	1687	872	2442	2063	1748
Total PAHs		N/A	N/A	µg/kg	2528.9	1696.5	1964.9	1013.8	2833.5	2349.9	2019.1
PCBs											
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	180 J	26 J	207 J	44 J	33 J	27 J	40 J
PCB-1016	12674-11-2	N/A	N/A	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1221	11104-28-2	N/A	N/A	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1232	11141-16-5	N/A	N/A	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1242	53469-21-9	N/A	N/A	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1248	12672-29-6	N/A	N/A	µg/kg	110 J	26 J	120 J	34 J	33 J	27 J	40 J
PCB-1254	11097-69-1	N/A	N/A	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1260	11096-82-5	N/A	N/A	µg/kg	70 J	690 U	87 J	10 J	650 U	560 U	480 U
Total Metals											
Aluminum, Total	7429-90-5	State Wide Default Background Levels (Part 201)	6900 ** NBA	mg/kg	4100	6800	8000	6300	4600	8400	5400
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	12	21	21	17	13	18	20
Barium, Total	7440-39-3	Most Restrictive Eco-SSL TRV	330 Soil Invert.	mg/kg	73	160	160	120	78	120	69
Cadmium, Total	7440-43-9	State Wide Default Background Levels (Part 201)	1.2	mg/kg	0.39	0.61	0.76	0.44	0.52	0.6	0.39
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	190	110	830	260	160	220	120
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	120	92	610	150	95	110	72
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	32	28	63	24	48	38	25
Mercury, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.15	0.091	0.26	0.12	0.15	0.16	0.095
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	48	52	160	62	40	40	31
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.46	0.9	0.91	0.68	0.54	0.78	0.55
Silver, Total	7440-22-4	Most Restrictive Eco-SSL TRV	4.2 Avian	mg/kg	0.079	0.087	0.14	0.081	0.094	0.12	0.076
Zinc, Total	7440-66-6	Saturated Soil Eco-SSL TRV	950 Avian Herbivore (Dove)	mg/kg	190	190	510	190	170	230	120
Chromium, Hexavalent	18540-29-9	Most Restrictive Eco-SSL TRV	130 Mam.	mg/kg	2.6 U	0.50 J	2.9 U	3.1 U	0.41 J	3.2 U	2.9 U
Misc											

TABLE 10
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	**Screening Criteria Source**	**Screening Criteria Value**	**Units**							
Cyanide, Available	57-12-5	**Region 5 RCRA Soil ESL**	**1.30**	mg/kg	NA	NA	0.59	1.0	1.2	1.5	1.1
Cyanide, Total	57-12-5	**Region 5 RCRA Soil ESL**	**1.30**	mg/kg	0.10 J	0.15 J	0.61	0.30	0.39	0.42	0.26

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Indicates HMW PAH	High Molecular Weight Polycylic Aromatic Hydrocarbon
Indicates LMW PAH	Low Molecular Weight Polycylic Aromatic Hydrocarbon
Exceed screening criteria	

TABLE 11:

OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING - EXCEEDANCES ONLY

TABLE 11
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING - EXCEEDANCES ONLY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
				Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
				Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units															
Semi-Volatile Organic Compounds																			
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	1325	1912	4870	4026	962	651	183.2	531.5	231	82.7	167	233.6	217.9	829	178.2
PCBs																			
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	48 J	32 J	69 J	*1100 U*	71 J	54 J	*550 U*	45 J	*620 U*	*380 U*	*480 U*	51 J	*360 U*	13 J	*400 U*
Total Metals																			
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	6.7	15	19	15	21	25	13	11	9.8	4.5	8.3	6.0	6.5	35	5.0
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	61	55	68	10	180	330	56	45	35	14	39	26	42	340	33
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	86	56	72	11	100	150	29	35	25	12	22	17	27	150	20
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	16	23	24	7.4	31	35	13	14	18	5.7	16	24	24	43	8.0
M[illegible]y, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.045 J	0.14	0.13	0.076	0.25	0.24	0.075	0.084	0.060	0.021 J	0.085	0.021 J	0.034 J	0.27	0.024 J
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	59	32	43	9.5	53	69	18	21	18	9.4	13	13	16	73	12
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.31	0.67	0.76	0.47	0.87	0.94	0.46	0.53	0.64	0.35	0.66	0.24	0.27	0.98	0.27
Misc																			
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	NA	1.4	NA	NA	1.1	1.2	NA	NA	NA	NA	1.4	NA	NA	0.99	
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.12 U	0.16	0.12 J	0.34 U	0.60	0.89	0.13 J	0.12 J	0.19 U	0.12 U	0.17	0.11 U	0.11 U	0.45	0.12 U

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Exceed screening criteria

TABLE 11
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING - EXCEEDANCES ONLY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
				Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
				Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	Screening Criteria Source	Screening Criteria Value	Units																					
Semi-Volatile Organic Compounds																									
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	330 U	330 U	21	11	5	40	3	28	330 U	11	10	959	188	57	329	9	7	330 U	330 U	330 U	330 U
PCBs																									
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	NA	NA	8.6 J	8.1 J	19 J	8.1 J	330 U	330 U	330 U	330 U	18 J	190 J	8.8 J	330 U	330 U	330 U	330 U	330 U	9.3 J	330 U	330 U
Total Metals																									
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	3.5	4.9	11	5.6	14	10	18	1.9	3.6	26	26	5.5	18	15	9	5.4	10	16	22	35	3
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	32	5.5	12	11	7.5	14	5.1	5.6	3.8	10	71	38	10	13	12	11	8.4	7.5	6.3	19	10
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	40	4.6	13	8.1	7.2	17	9.2	12	1.7	8.4	69	37	5.9	8.8	7.7	5	6.8	4.5	3.3	2.2	3.2
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	6.5	3.1	5.4	4.7	4.2	5	3.9	1.8	0.85 J	6.3	19	6.3	7.5	4.5	4.3	3.2	4.3	2	1.8	2.4	1.4
M[illegible], Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.027 J	0.075 J	0.0082 J	0.1 U	0.041 J	0.014 J	0.01 J	0.037 J	0.1 U	0.1 U	0.1 U	0.1 U
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	66	26	13	13	11	21	12	5.1	3.8	10	40	26	7.6	8.8	7.8	8.7	7.3	7.8	6.2	14	8.6
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.81	0.14 J	0.26	0.23	0.24	0.31	0.28	0.12 J	0.2 J	0.27 U	0.38 U	0.22 U	0.22	0.25 U	0.22 J	0.24 U	0.25 U	0.22 J	0.097 J	0.19 J	0.13 J
Misc																									
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.2 U	0.04 J	0.2 U	0.05 J	0.04 J	0.12 J	0.93	1.9	0.2 U	0.24	0.23	0.13 J	0.1 J	0.2 U	0.2 U	0.2 U	0.12 J	0.033 J	0.2 U	0.2 U	0.036 J

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Exceed screening criteria

TABLE 11
OVERBANK ANALYTICAL RESULTS - ECOLOGICAL SOIL SCREENING - EXCEEDANCES ONLY
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

					OVERBANK TRANSECTS NORTH OF GRAND RIVER						
				Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
				Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
				Date Sampled:	40130	40130	40130	40130	40130	40130	40130
				Data Type	Original	Duplicate	Original	Original	Original	Original	Original
				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	Screening Criteria Source	Screening Criteria Value	Units							
Semi-Volatile Organic Compounds											
HMW PAHs		Most Restrictive Eco-SSL TRV	1100 Mam.	µg/kg	2110	1536	1687	872	2442	2063	1748
PCBs											
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	180 J	26 J	207 J	44 J	33 J	27 J	40 J
Total Metals											
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18 Plant	mg/kg	12	21	21	17	13	18	20
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78 Avian Herbivore (Dove)	mg/kg	190	110	830	260	160	220	120
Copper, Total	7440-50-8	LOAEL TRV	535 Avian Herbivore (Dove)	mg/kg	120	92	610	150	95	110	72
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46 Avian Herbivore (Dove)	mg/kg	32	28	63	24	48	38	25
M[illegible]y, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.15	0.091	0.26	0.12	0.15	0.16	0.095
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38 Plant	mg/kg	48	52	160	62	40	40	31
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52 Plant	mg/kg	0.46	0.9	0.91	0.68	0.54	0.78	0.55
Misc											
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	NA	NA	0.59	1.0	1.2	1.5	1.1
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.10 J	0.15 J	0.61	0.30	0.39	0.42	0.26

Notes:

See Table 9 for Screening Criteria Definitions

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

Exceed screening criteria

TABLE 12:

OVERBANK SWAC ANALYSIS SUMMARY – ECOLOGICAL SOIL SCREENING

T E 12
OVERBANK SWA ALYSIS SUMMARY
ECOLOGICAL SCREENING CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SWAC ANALYSIS SUMMARY ECOLOGICAL SCREENING CRITERIA					Transects A through M		Transects N through P		Transects A through P	
					OverBank SWAC		OverBank SWAC		OverBank SWAC	
	CAS	Screening Criteria Source	Screening Criteria Value	Units	SWAC VALUES	SWAC Value Exceeds Screening Value	SWAC VALUES	SWAC Value Exceeds Screening Value	SWAC VALUES	SWAC Value Exceeds Screening Value
PAH's										
HMW PAH's		Most Restrictive Eco-SSL TRV	1100	µg/kg	729.06	No	1985.07	Yes	1175.20	Yes
Total PAH's				µg/kg	819.00	NA	2333.06	NA	1356.81	NA
PCBs										
PCB Total	TPCB	Region 5 RCRA Soil ESL	0.332	µg/kg	41.43	Yes	120.69	Yes	69.59	Yes
Total Metals										
Arsenic, Total	7440-38-2	Most Restrictive Eco-SSL TRV	18	mg/kg	11.24	No	17.97	No	13.63	No
Chromium, Total	7440-47-3	Saturated Soil Eco-SSL TRV	78	mg/kg	71.82	No	272.11	Yes	142.97	Yes
Copper, Total	7440-50-8	LOAEL TRV	535	mg/kg	41.78	No	175.52	No	89.29	No
Lead, Total	7439-92-1	Saturated Soil Eco-SSL TRV	46	mg/kg	18.50	No	39.75	No	26.05	No
Mercury, Total	7439-97-6	State Wide Default Background Levels (Part 201)	0.13	mg/kg	0.08	No	0.16	Yes	0.10	No
Nickel, Total	7440-02-0	Most Restrictive Eco-SSL TRV	38	mg/kg	23.91	No	60.24	Yes	36.81	No
Selenium, Total	7782-49-2	Most Restrictive Eco-SSL TRV	0.52	mg/kg	0.47	No	0.73	Yes	0.56	Yes
Misc										
Cyanide, Available	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.22	No	0.84	No	0.44	No
Cyanide, Total	57-12-5	Region 5 RCRA Soil ESL	1.30	mg/kg	0.13	No	0.34	No	0.21	No

Notes:
See Table 9 for screening criteria definitions
- For PCB's USEPA's upper bound cleanup criteria is 600 µg/kg
**Aluminum is not bio-available in soils with pH>5.5, site soil pH ranges 7.3-7.6
NA - Indicates that the sample was not analyzed for that parameter.
*U - All Values are "U" valuesIndicating th result was not detected above the method detection limit.
Values that are Bold and Highlighted Indicate an exceedance of the specified criteria

TABLE 13:

OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 297)
Fowlerville, MI

		Michigan Part 201				Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
						Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
						Date Sampled:	40129	40129	40129	40130	40129	40129	40129	40130	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units															
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	-	1500	ID	440000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,1-Trichloroethane	71-55-6	-	4000	1800	460000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,2,2-Tetrachloroethane	79-34-5	-	170	1600	53000	µg/kg	53 U	70 U	72 U	*170 U*	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1,2-Trichloroethane	79-00-5	-	100	6600	180000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloroethane	75-34-3	-	18000	15000	890000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloroethene	75-35-4	-	140	2600	200000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,1-Dichloropropene	563-58-6	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,3-Trichlorobenzene	87-61-6	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,3-Trichloropropane	96-18-4	-	840	NA	830000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (X)	990000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2,4-Trimethylbenzene	95-63-6	-	2100	570	110000	µg/kg	77	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dibromo-3-chloropropane	96-12-8	-	10(M); 4.0	ID	1200 (C)	µg/kg	*270 U*	*350 U*	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000 (C)	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dichloroethane	107-06-2	-	100	7200 (X)	91000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Dichloroethene (Total)	540-59-0	-				µg/kg	110 U	140 U	140 U	340 U	140 U	150 U	170 U	130 U	190 U	120 U	150 U	110 U	100 U	150 U	120 U
1,2-Dichloropropane	78-87-5	-	100	4600 (X)	140000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,3,5-Trimethylbenzene	108-67-8	-	1800	1100	94000 (C)	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,[illegible]robenzene	541-73-1	-	170	680	170000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,[illegible]loropropane	142-28-9	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,4-Dichlorobenzene	106-46-7	-	1700	360	400000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2,2-Dichloropropane	594-20-7	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Chlorotoluene	95-49-8	-	3300	ID	500000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Hexanone	591-78-6	-	20000	ID	2500000	µg/kg	2700 U	3500 U	3600 U	8600 U	3600 U	3700 U	4200 U	3100 U	4700 U	2900 U	3700 U	2800 U	2500 U	3800 U	3100 U
4-Chlorotoluene	106-43-4	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
4-Isopropyltoluene	99-87-6	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
4-Methyl-2-pentanone (MIBK)	108-10-1	-	36000	ID	2700000 (C	µg/kg	2700 U	3500 U	3600 U	8600 U	3600 U	3700 U	4200 U	3100 U	4700 U	2900 U	3700 U	2800 U	2500 U	3800 U	3100 U
Acetone	67-64-1	-	15000	34000	23000000	µg/kg	800 U	180 J	1100 U	450 J	130 J	1100 U	210 J	140 J	250 J	180 J	270 J	830 U	140 J	170 J	160 J
Acrolein	107-02-8	-	2400	NA	3600000	µg/kg	270 U	350 U	360 U	860 U	360 U	370 U	420 U	310 U	470 U	290 U	370 U	280 U	250 U	380 U	310 U
Benzene	71-43-2	-	100	4000 (X)	180000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromobenzene	108-86-1	-	550	NA	540000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromochloromethane	74-97-5	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromoform	75-25-2	-	1600 (W)	ID	820000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Bromomethane	74-83-9	-	200	700	320000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Carbon Disulfide	75-15-0	-	16000	ID	280000	µg/kg	*270 U*	*350 U*	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Carbon Tetrachloride	56-23-5	-	100	900 (X)	96000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chlorobenzene	108-90-7	-	2000	500	260000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloroethane	75-00-3	-	8600	22000 (X)	950000 (C)	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloroform	67-66-3	-	1600 (W)	7000	1200000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Chloromethane	74-87-3	-	5200	ID	1100000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
cis-1,2-Dichloroethene	156-59-2	-	1400	12000	640000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
cis-1,3-Dichloropropene	10061-01-5	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dibromochloromethane	124-48-1	-	1600 (W)	ID	110000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dibromomethane	74-95-3	-	1600	NA	2000000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Dichlorobromomethane	75-27-4	-				µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	-	95000	ID	1000000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Ethylbenzene	100-41-4	-	1500	360	140000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Ethylene dibromide	106-93-4	-	20 (M); 1.0	110 (X)	92	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	*53 U*	*70 U*	*72 U*	*58 U*	*72 U*	*74 U*	*83 U*	*63 U*	*94 U*	*58 U*	*73 U*	*56 U*	*50 U*	*77 U*	*61 U*
I[illegible]lbenzene	98-82-8	-	91000	3200	390000	µg/kg	77	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2-Butanone (MEK)	78-93-3	-	260000	44000	27000000 (C,DD)	µg/kg	68 J	70 J	69 J	160 J	73 J	72 J	96 J	66 J	97 J	70 J	78 J	59 J	57 J	76 J	75 J
Methyl tert-Butyl Ether	1634-04-4	-	800	140000	1500000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Methylene Chloride	75-09-2	-	100	30000 (X)	1300000	µg/kg	31 J	31 J	42 J	130 J	43 J	42 J	49 J	40 J	59 J	32 J	37 J	38 J	40 J	48 J	46 J
n-Butylbenzene	104-51-8	-	1600	ID	2500000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

						Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
						Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
						Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units															
n-Propylbenzene	103-65-1	-	1600	ID	2500000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	5.3 J	4.2 J	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Xylene, Ortho	95-47-6	-				µg/kg	61	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
sec-Butylbenzene	135-98-8	-				µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Styrene	100-42-5	-	2700	2100 (X)	400000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
tert-Butylbenzene	98-06-6	-	1600	ID	2500000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Tetrachloroethene	127-18-4	-	100	1200 (X)	88000 ©	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Toluene	108-88-3	-	16000	5400	250000 (C)	µg/kg	50 J	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
trans-1,2-Dichloroethene	156-60-5	-	2000	30000	1400000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
trans-1,3-Dichloropropene	10061-02-6	-			10000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Trichloroethene	79-01-6	-	100	4000	500000	µg/kg	28 J	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Trichlorofluoromethane	75-69-4	-	5200	NA	560000	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Vinyl Chloride	75-01-4	-	40	260	3800	µg/kg	53 U	70 U	72 U	170 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
Xylene, Meta + Para	Not Applicable	-			1E+24	µg/kg	34 J	140 U	140 U	340 U	140 U	150 U	170 U	130 U	190 U	120 U	150 U	110 U	100 U	150 U	120 U
Xylene, Total																					
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (x)	990000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1,2-Benzphenanthracene	218-01-9	-			2000000	µg/kg	65	150	320	350	82	58	17 J	49	26 J	8.9 J	14 J	19	26	99	22
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1 lorobenzene	541-73-1	-	170	680	170000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
1, lorobenzene	106-46-7	-	1700	360	400000	µg/kg	53 U	70 U	72 U	58 U	72 U	74 U	83 U	63 U	94 U	58 U	73 U	56 U	50 U	77 U	61 U
2,4,5-Trichlorophenol	95-95-4	-	39000	NA	23000000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4,6-Trichlorophenol	88-06-2	-	2400	330 (M), 100	710000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4-Dichlorophenol	120-83-2	-	1500	330 (M), 220	660000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2,4-Dimethylphenol	105-67-9	-	7400	7600	11000000	µg/kg	*390 U*	*470 U*	*480 U*	*1100 U*	*520 U*	*540 U*	*550 U*	*420 U*	*630 U*	*390 U*	*490 U*	*370 U*	*360 U*	*550 U*	*410 U*
2,4-Dinitrophenol	51-28-5	-			1E+24	µg/kg	*390 U*	*470 U*	*480 U*	*1100 U*	*520 U*	*540 U*	*550 U*	*420 U*	*630 U*	*390 U*	*490 U*	*370 U*	*360 U*	*550 U*	*410 U*
2,4-Dinitrotoluene	121-14-2	-	430	NA	48000	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
2,6-Dinitrotoluene	606-20-2	-			1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Chloronaphthalene	91-58-7	-	620000	NA	56000000	µg/kg	*19 U*	*24 U*	*24 U*	*58 U*	*26 U*	*27 U*	*28 U*	*21 U*	*31 U*	*19 U*	*25 U*	*19 U*	*18 U*	*28 U*	*20 U*
2-Chlorophenol	95-57-8	-	900	360	1400000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Methylnaphthalene	91-57-6	-	57000	4200	8100000	µg/kg	7.2 J	4.2 J	12 J	58 U	26 U	27 U	28 U	2.9 J	3.2 J	19 U	25 U	19 U	18 U	28 U	20 U
2-Methylphenol	95-48-7	-			11000000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Nitroaniline	88-74-4	-			1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
2-Nitrophenol	88-75-5	-	400	ID	630000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
3,3´-Dichlorobenzidine	91-94-1	-	2000 (m), 2	2000 (m), 7.4	6600	µg/kg	190 U	240 U	240 U	580 U	260 U	270 U	280 U	210 U	310 U	190 U	250 U	190 U	180 U	280 U	200 U
3+4-Methylphenol	108-39-4	-			11000000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
3-Nitroaniline	99-09-2	-			1E+24	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
4,6-Dinitro-2-methylphenol	534-52-1	-			79000	µg/kg	78 U	94 U	96 U	*230 U*	100 U	110 U	110 U	84 U	130 U	78 U	98 U	74 U	72 U	110 U	81 U
4-Bromophenyl Phenyl Ether	101-55-3	-			1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Chloroaniline	106-47-8	-			1E+24	µg/kg	39 U	47 U	48 U	110 U	52 U	54 U	55 U	42 U	63 U	39 U	49 U	37 U	36 U	55 U	41 U
4-Chlorophenyl Phenyl Ether	7005-72-3	-			1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Methylphenol	106-44-5	-			11000000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
4-Nitroaniline	100-01-6	-			1E+24	µg/kg	78 U	94 U	96 U	230 U	100 U	110 U	110 U	84 U	130 U	78 U	98 U	74 U	72 U	110 U	81 U
4-Nitrophenol	100-02-7	-			1E+24	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Acenaphthene	83-32-9	-	300000	8700	41000000	µg/kg	19 U	4.7 J	12 J	28 J	2.6 J	3.3 J	28 U	2.5 J	31 U	19 U	25 U	19 U	18 U	3.3 J	20 U
Acenaphthylene	208-96-8	-	5900	ID	1600000	µg/kg	16 J	19 J	49	10 J	5.8 J	3.8 J	28 U	3.3 J	31 U	19 U	25 U	19 U	18 U	4.4 J	20 U
Anthracene	120-12-7	-	41000	ID	230000000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	-	NLL	NLL	20000	µg/kg	240	280	510	500	120	77	23 J	69	31	8.1 J	23 J	29	25	91	19 J
Benzidine	92-87-5	-	1000	1000	1000	µg/kg	780 U	940 U	960 U	2300 U	1000 U	1100 U	1100 U	840 U	1300 U	780 U	980 U	740 U	720 U	1100 U	810 U
Benzo(a)pyrene	50-32-8	-	NLL	NLL	2000	µg/kg	74	110	280	260	60	54	21 J	41	28 J	7.3 J	17 J	20	19	69	23
F)fluoranthene	205-99-2	-	NLL	NLL	20000	µg/kg	210	340	820	620	150	93	25 J	87	35	18 J	26	34	28	86	22
Be. .g,h,i)perylene	191-24-2	-	NLL	NLL	2500000	µg/kg	40	59	220	190	56	41 J	2.2 J	9.5 J	63 U	39 U	13 J	18 J	21 J	51 J	41 U
Benzo(k)fluoranthene	207-08-9	-	NLL	NLL	200000	µg/kg	84	94	200	200	64	52	12 J	29	16 J	5.4 J	17 J	16 J	18	54	17 J
Benzoic Acid	65-85-0	-	640000	NA	990000000	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Benzyl Alcohol	100-51-6	-	200000	NA	5800000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	47	180	94	280	74
Bis(2-chloroethoxy)methane	111-91-1	-			1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

						Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
						Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
						Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units															
Bis(2-chloroethyl) Ether	111-44-4	-	100	100	13000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
bis(2-Chloroisopropyl)ether	108-60-1	-			1E+24	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	-	NLL	NLL	2800000	µg/kg	25 J	30 J	18 J	240	67	28 J	39 J	45	35 J	17 J	34 JB	99 B	180 B	47 JB	28 JB
Butyl Benzyl Phthalate	85-68-7	-	310000	120000	310000	µg/kg	39 U	47 U	48 U	110 U	13 J	54 U	10 J	42 U	63 U	39 U	9.9 J	51	36 U	12 J	41 U
Carbazole	86-74-8	-	9400	1100	530000	µg/kg	390 U	470 U	480 U	1100 U	520 U	540 U	550 U	420 U	630 U	390 U	490 U	370 U	360 U	550 U	410 U
Chrysene	218-01-9	-	NLL	NLL	2000000	µg/kg	65	150	320	350	82	58	17 J	49	26 J	8.9 J	14 J	19	26	99	22
Di-n-butyl Phthalate	84-74-2	-	760000	11000	760000	µg/kg	*190 U*	40 J	*240 U*	*580 U*	*260 U*	*270 U*	*280 U*	*210 U*	*310 U*	*190 U*	38 J	47 J	33 J	96 J	55 J
Di-n-octyl Phthalate	117-84-0	-	1E+08	ID	6900000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Dibenz(a,h)anthracene	53-70-3	-	NLL	NLL	2000	µg/kg	23 J	33 J	100	96 J	39 J	54 U	55 U	42 U	63 U	39 U	49 U	9.6 J	36 U	19 J	41 U
Dibenzofuran	132-64-9	-	ID	1700	1E+24	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Diethyl Phthalate	84-66-2	-	110000	2200	740000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Dimethyl Phthalate	131-11-3	-	790000	NA	790000	µg/kg	19 U	2.3 J	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Fluoranthene	206-44-0	-	730000	5500	46000000	µg/kg	250	350	1100	750	170	110	34	100	44	15 J	17 J	32	33	150	30
Fluorene	86-73-7	-	390000	5300	27000000	µg/kg	19 U	24 U	31	35 J	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Hexachlorobenzene	118-74-1	-	1800	350	8900	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	*53 U*	*70 U*	*72 U*	*58 U*	*72 U*	*74 U*	*83 U*	*63 U*	*94 U*	*58 U*	*73 U*	*56 U*	*50 U*	*77 U*	*61 U*
Hexachlorocyclopentadiene	77-47-4	-	320000	ID	720000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Hexachloroethane	67-72-1	-	430	1800	230000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
In 2,3-cd)pyrene	193-39-5	-	NLL	NLL	20000	µg/kg	69	86	220	210	41 J	26 J	11 J	27 J	63 U	39 U	14 J	20 J	7.9 J	40 J	6.2 J
Iso one	78-59-1	-	15000	26000	2400000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
N-Nitroso-di-n-propylamine	621-64-7	-	330	NA	1200	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
N-Nitroso-diphenylamine	86-30-6	-	5400	NA	1700000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	5.3 J	4.2 J	*360 U*	*860 U*	*360 U*	*370 U*	*420 U*	*310 U*	*470 U*	*290 U*	*370 U*	*280 U*	*250 U*	*380 U*	*310 U*
Nitrobenzene	98-95-3	-	330	3600	100000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
p-Chloro-m-cresol	59-50-7	-	5800	280	4500000	µg/kg	19 U	24 U	24 U	58 U	26 U	27 U	28 U	21 U	31 U	19 U	25 U	19 U	18 U	28 U	20 U
Pentachlorophenol	87-86-5	-	22	6.7	90000	µg/kg	*190 U*	*240 U*	*240 U*	*580 U*	*260 U*	*270 U*	*280 U*	*210 U*	*310 U*	*190 U*	*250 U*	*190 U*	*180 U*	*280 U*	*200 U*
Phenanthrene	85-01-8	-	56000	2100	1600000	µg/kg	42	69	260	430	72	56	13 J	40	22 J	8.9 J	16 J	21	15 J	120	16 J
Phenol	108-95-2	-	88000	9000	12000000	µg/kg	190 U	240 U	240 U	580 U	260 U	270 U	280 U	210 U	310 U	190 U	250 U	190 U	180 U	280 U	200 U
PNAs Total	TPNA	-				µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	-	480000	ID	29000000	µg/kg	270	410	1100	850	180	140	38	120	51	20	26	36	40	170	39
LMW PAHs		-				µg/kg	70.5	101.1	364	503	80.4	63.1	13	48.7	25.2	8.9	16	21	15	127.7	16
HMW PAHs		-				µg/kg	1325	1912	4870	4026	962	651	183.2	531.5	231	82.7	167	233.6	217.9	829	178.2
Total PAHs		-				µg/kg	1395.5	2013.1	5234	4529	1042.4	714.1	196.2	580.2	256.2	91.6	183	254.6	232.9	956.7	194.2
PCBs																					
PCB Total	TPCB	-			1000	µg/kg	48 J	32 J	69 J	*1100 U*	71 J	54 J	*550 U*	45 J	*620 U*	*380 U*	*480 U*	51 J	*360 U*	13 J	*400 U*
PCB-1016	12674-11-2	-			1000	µg/kg	20 J	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1221	11104-28-2	-			1000	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1232	11141-16-5	-			1000	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1242	53469-21-9	-			1000	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1248	12672-29-6	-			1000	µg/kg	20 J	18 J	48 J	1100 U	41 J	23 J	550 U	25 J	620 U	380 U	480 U	22 J	360 U	13 J	400 U
PCB-1254	11097-69-1	-			1000	µg/kg	380 U	460 U	470 U	1100 U	520 U	540 U	550 U	410 U	620 U	380 U	480 U	370 U	360 U	540 U	400 U
PCB-1260	11096-82-5	-			1000	µg/kg	8.0 J	14 J	21 J	1100 U	30 J	31 J	550 U	20 J	620 U	380 U	480 U	29 J	360 U	540 U	400 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

						Location	A West Overbank	B West Overbank	C West Overbank	D West Overbank	E West Overbank	F West Overbank	G West Overbank	H West Overbank	I West Overbank	J West Overbank	K West Overbank	L West Overbank	M West Overbank	LU East Overbank	LD East Overbank
						Field ID:	A-09-WO	B-09-WO	C-09-WO	D-09-WO	E-09-WO	F-09-WO	G-09-WO	H-09-WO	I-09-WO	J-09-WO	K-09-WO	L-09-WO	M-09-WO	LU-09-EO	LD-09-EO
						Date Sampled:	40129	40129	40129	40130	40129	40129	40129	10/17/2003	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
		Michigan Part 201				Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						Sample Event	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units															
Total Metals																					
Aluminum, Total	7429-90-5	6900	1	NA	50000	mg/kg	4800	6500	6300	4600	**9500**	**11000**	5000	4800	5800	3400	**7200**	4300	3100	**13000**	3000
Arsenic, Total	7440-38-2	5.8	4.6	4.6	7.6 / 9.79	mg/kg	**6.7**	**15**	**19**	**15**	**21**	**25**	**13**	**11**	**9.8**	4.5	**8.3**	**6.0**	**6.5**	**35**	5.0
Barium, Total	7440-39-3	75	1300	1910.7	37000	mg/kg	43	87	130	78	170	150	75	58	79	35	86	30	31	220	29
Cadmium, Total	7440-43-9	1.2	6	6.2	550	mg/kg	0.16	0.47	0.52	0.27	0.73	0.78	0.33	0.36	0.4	0.23	0.45	0.22	0.20	0.93	0.17
Chromium, Total	7440-47-3	18	1000000	230.7	790000	mg/kg	61	55	68	10	180	**330**	56	45	35	14	39	26	42	**340**	33
Copper, Total	7440-50-8	32	5800	29.3	20000	mg/kg	**86**	**56**	**72**	11	**100**	**150**	29	**35**	25	12	22	17	27	**150**	20
Lead, Total	7439-92-1	21	700	44.8	400	mg/kg	16	23	24	7.4	31	35	13	14	18	5.7	16	24	24	43	8.0
Mercury, Total	7439-97-6	0.13	1.7	.05 (M); .0012	160	mg/kg	0.045 J	**0.14**	0.13	0.076	**0.25**	**0.24**	0.075	0.084	0.060	0.021 J	0.085	0.021 J	0.034 J	**0.27**	0.024 J
Nickel, Total	7440-02-0	20	100	168	40000	mg/kg	59	32	43	9.5	53	69	18	21	18	9.4	13	13	16	73	12
Selenium, Total	7782-49-2	0.41	4	0.4	2600	mg/kg	0.31	**0.67**	**0.76**	**0.47**	**0.87**	**0.94**	**0.46**	**0.53**	**0.64**	0.35	**0.66**	0.24	0.27	**0.98**	0.27
Silver, Total	7440-22-4	1	4.5	.1 (M); .027	2500	mg/kg	0.052	0.071	0.065	0.036 J	0.078	0.091	0.042 J	0.055	0.058	0.035 J	0.10	0.044 J	0.048 J	0.15	0.038 J
Zinc, Total	7440-66-6	47	2400	382.4	170000	mg/kg	160	**440**	210	52	340	**570**	110	100	87	33	69	62	81	310	45
Chromium, Hexavalent	18540-29-9	NA	30	3.3	2500	mg/kg	2.3 U	2.8 U	2.9 U	6.9 U	3.1 U	3.3 U	3.1 U	2.5 U	3.8 U	2.2 U	2.9 U	2.1 U	2.0 U	3.0 U	0.64 J
Misc																					
Cy[illegible], Available	57-12-5					mg/kg	NA	1.4	NA	NA	1.1	1.2	NA	NA	NA	NA	1.4	NA	NA	0.99	
C[illegible] Total	57-12-5	0.39	4	0.1	12	mg/kg	0.12 U	0.16	0.12 J	0.34 U	**0.60**	**0.89**	0.13 J	0.12 J	0.19 U	0.12 U	0.17	0.11 U	0.11 U	**0.45**	0.12 U

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

GSI for Barium, Cadmium, Chromium (III), Copper, Lead, Manganese, Nickel, Pentachlorophenol, and Zinc were calculated based on pH 7, Hardness 400 mg CaCO3/L

Bold Values	Exceedences of Highlighted Criteria
Non-Bold Values	Exceedances of Highlighted Criteria, but below statewide default background levels

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

						Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
						Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
						Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units																					
Volatile Organic Compounds																											
1,1,1,2-Tetrachloroethane	630-20-6	-	1500	ID	440000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,1-Trichloroethane	71-55-6	-	4000	1800	460000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,2,2-Tetrachloroethane	79-34-5	-	170	1600	53000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1,2-Trichloroethane	79-00-5	-	100	6600	180000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloroethane	75-34-3	-	18000	15000	890000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloroethene	75-35-4	-	140	2600	200000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,1-Dichloropropene	563-58-6	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,3-Trichlorobenzene	87-61-6	-				µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
1,2,3-Trichloropropane	96-18-4	-	840	NA	830000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (X)	990000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2,4-Trimethylbenzene	95-63-6	-	2100	570	110000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dibromo-3-chloropropane	96-12-8	-	10(M); 4.0	ID	1200 (C)	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000 (C)	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichloroethane	107-06-2	-	100	7200 (X)	91000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,2-Dichloroethene (Total)	540-59-0	-				µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	78-87-5	-	100	4600 (X)	140000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,3,5-Trimethylbenzene	108-67-8	-	1800	1100	94000 (C)	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
[illegible]lorobenzene	541-73-1	-	170	680	170000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1, [illegible]loropropane	142-28-9	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
1,4-Dichlorobenzene	106-46-7	-	1700	360	400000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2,2-Dichloropropane	594-20-7	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Chlorotoluene	95-49-8	-	3300	ID	500000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Hexanone	591-78-6	-	20000	ID	2500000	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
4-Chlorotoluene	106-43-4	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
4-Isopropyltoluene	99-87-6	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
4-Methyl-2-pentanone (MIBK)	108-10-1	-	36000	ID	2700000 (C	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Acetone	67-64-1	-	15000	34000	23000000	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Acrolein	107-02-8	-	2400	NA	3600000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	-	100	4000 (X)	180000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromobenzene	108-86-1	-	550	NA	540000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromochloromethane	74-97-5	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromoform	75-25-2	-	1600 (W)	ID	820000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Bromomethane	74-83-9	-	200	700	320000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Carbon Disulfide	75-15-0	-	16000	ID	280000	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Carbon Tetrachloride	56-23-5	-	100	900 (X)	96000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chlorobenzene	108-90-7	-	2000	500	260000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloroethane	75-00-3	-	8600	22000 (X)	950000 (C)	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloroform	67-66-3	-	1600 (W)	7000	1200000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Chloromethane	74-87-3	-	5200	ID	1100000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
cis-1,2-Dichloroethene	156-59-2	-	1400	12000	640000	µg/kg	56 U	54 U	26 J	96	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
cis-1,3-Dichloropropene	10061-01-5	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dibromochloromethane	124-48-1	-	1600 (W)	ID	110000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dibromomethane	74-95-3	-	1600	NA	2000000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dichlorobromomethane	75-27-4	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U.	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Dichlorodifluoromethane	75-71-8	-	95000	ID	1000000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Ethylbenzene	100-41-4	-	1500	360	140000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	110 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Ethylene dibromide	106-93-4	-	20 (M); 1.0	110 (X)	92	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
I [illegible]lbenzene	98-82-8	-	91000	3200	390000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
2-Butanone (MEK)	78-93-3	-	260000	44000	27000000 (C,DD)	µg/kg	130 J	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Methyl tert-Butyl Ether	1634-04-4	-	800	140000	1500000	µg/kg	560 U	540 U	550 U	500 U	540 U	560 U	620 U	560 U	750 U	760 U	910 U	530 U	510 U	570 U	61 U	590 U	600 U	910 U	560 U	580 U	580 U
Methylene Chloride	75-09-2	-	100	30000 (X)	1300000	µg/kg	14 J	34 U	67	61	54 U	56 U	62 U	56 U	380 U	150 U	180 U	260 U	260 U	280 U	300 U	59 U	120 U	460 U	280 U	290 U	120 U
n-Butylbenzene	104-51-8	-	1600	ID	2500000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

		Michigan Part 201																								
						Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
						Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
						Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units																				
n-Propylbenzene	103-65-1	-	1600	ID	2500000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	280 U	270 U	270 U	250 U	270 U	280 U	310 U	280 U	380 U	380 U	450 U	260 U	260 U	280 U	300 U	290 U	300 U	460 U	280 U	290 U	290 U
Xylene, Ortho	95-47-6	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
sec-Butylbenzene	135-98-8	-				µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Styrene	100-42-5	-	2700	2100 (X)	400000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
tert-Butylbenzene	98-06-6	-	1600	ID	2500000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Tetrachloroethene	127-18-4	-	100	1200 (X)	88000 ©	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Toluene	108-88-3	-	16000	5400	250000 (C)	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	49 J	NA	NA	53 U	51 U	57 U	61 U	32 J	NA	64 J	32 J	33 J	NA
trans-1,2-Dichloroethene	156-60-5	-	2000	30000	1400000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
trans-1,3-Dichloropropene	10061-02-6	-			10000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Trichloroethene	79-01-6	-	100	4000	500000	µg/kg	56 U	54 U	130	29 J	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Trichlorofluoromethane	75-69-4	-	5200	NA	560000	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Vinyl Chloride	75-01-4	-	40	260	3800	µg/kg	56 U	54 U	55 U	50 U	54 U	56 U	62 U	56 U	75 U	76 U	91 U	53 U	51 U	57 U	61 U	59 U	60 U	91 U	56 U	58 U	58 U
Xylene, Meta + Para	Not Applicable	-			1E+24	µg/kg	110 U	110 U	110 U	100 U	110 U	110 U	120 U	110 U	150 U	150 U	180 U	110 U	100 U	57 U	120 U	120 U	120 U	180 U	110 U	120 U	120 U
Xylene, Total																											
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (x)	990000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Benzphenanthracene	218-01-9	-			2000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	59 J	330 U	330 U	13 J	330 U	330 U	330 U	330 U	330 U	330 U
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
[illegible]lorobenzene	541-73-1	-	170	680	170000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
1,[illegible]chlorobenzene	106-46-7	-	1700	360	400000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,5-Trichlorophenol	95-95-4	-	39000	NA	23000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	88-06-2	-	2400	330 (M), 100	710000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	120-83-2	-	1500	330 (M), 220	660000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	105-67-9	-	7400	7600	11000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	51-28-5	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrotoluene	121-14-2	-	430	NA	48000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	91-58-7	-	620000	NA	56000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	95-57-8	-	900	360	1400000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	91-57-6	-	57000	4200	8100000	µg/kg	330 U	330 U	4 J	6 J	16 J	330 U	330 U	330 U	330 U	330 U	330 U	4.3 J	330 U	3.8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylphenol	95-48-7	-			11000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Nitroaniline	88-74-4	-			1E+24	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	88-75-5	-	400	ID	630000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
3,3'-Dichlorobenzidine	91-94-1	-	[illegible]000 (m), 2	2000 (m), 7.4	6600	µg/kg	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3+4-Methylphenol	108-39-4	-			11000000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	-			1E+24	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	534-52-1	-			79000	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl Phenyl Ether	101-55-3	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Chloroaniline	106-47-8	-			1E+24	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl Phenyl Ether	7005-72-3	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Methylphenol	106-44-5	-			11000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Nitroaniline	100-01-6	-			1E+24	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	100-02-7	-			1E+24	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	83-32-9	-	300000	8700	41000000	µg/kg	330 U	330 U	3 J	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	208-96-8	-	5900	ID	1600000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.6 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	120-12-7	-	41000	ID	230000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	32 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(a)anthracene	56-55-3	-	NLL	NLL	20000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	94 J	38 J	38 J	43 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzidine	92-87-5	-	1000	1000	1000	µg/kg	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	50-32-8	-	NLL	NLL	2000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	96 J	43 J	330 U	52 J	330 U	330 U	330 U	330 U	330 U	330 U
[illegible])fluoranthene	205-99-2	-	NLL	NLL	20000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	140 J	330 U	330 U	84 J	330 U	330 U	330 U	330 U	330 U	330 U
B[illegible]g,h,i)perylene	191-24-2	-	NLL	NLL	2500000	µg/kg	330 U	330 U	10 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	40 J	16 J	330 U	20 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	207-08-9	-	NLL	NLL	200000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	30 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzoic Acid	65-85-0	-	640000	NA	990000000	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	210 J	3300 U	3300 U	3300 U
Benzyl Alcohol	100-51-6	-	200000	NA	5800000	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
Bis(2-chloroethoxy)methane	111-91-1	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

		Michigan Part 201				Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
						Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
						Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units																					
Bis(2-chloroethyl) Ether	111-44-4	-	100	100	13000	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
bis(2-Chloroisopropyl)ether	108-60-1	-			1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Bis(2-ethylhexyl) Phthalate	117-81-7	-	NLL	NLL	2800000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	85-68-7	-	310000	120000	310000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Carbazole	86-74-8	-	9400	1100	530000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Chrysene	218-01-9	-	NLL	NLL	2000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	59 J	330 U	330 U	13 J	330 U	330 U	330 U	330 U	330 U	330 U
Di-n-butyl Phthalate	84-74-2	-	760000	11000	760000	µg/kg	83 J	53 J	50 J	52 J	48 J	50 J	89 J	63 J	38 J	270 J	92 J	49 J	44 J	57 J	65 J	33 J	380	49 J	36 J	36 J	220 J
Di-n-octyl Phthalate	117-84-0	-	1E+08	ID	6900000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	53-70-3	-	NLL	NLL	2000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	61 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	132-64-9	-	ID	1700	1E+24	µg/kg	330 U	330 U	330 U	330 U	330 U	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Diethyl Phthalate	84-66-2	-	110000	2200	740000	µg/kg	5.8 J	330 U	330 U	330 U	330 U	330 U	5 J	5 J	330 U	4 J	6 J	3.1 J	2.6 J	3.2 J	2.9 J	3 J	4 J	3 J	3 J	330 U	4 J
Dimethyl Phthalate	131-11-3	-	790000	NA	790000	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
Fluoranthene	206-44-0	-	730000	5500	46000000	µg/kg	330 U	330 U	4 J	4 J	330 U	8 J	330 U	16 J	330 U	5 J	10 J	210 J	24 J	10 J	35 J	5 J	3 J	330 U	330 U	330 U	330 U
Fluorene	86-73-7	-	390000	5300	27000000	µg/kg	330 U	330 U	2 J	3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	9.4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobenzene	118-74-1	-	1800	350	8900	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorocyclopentadiene	77-47-4	-	320000	ID	720000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachloroethane	67-72-1	-	430	1800	230000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Ir[illegible]2,3-cd)pyrene	193-39-5	-	NLL	NLL	20000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	69 J	48 J	330 U	54 J	330 U	330 U	330 U	330 U	330 U	330 U
Iso[illegible]	78-59-1	-	15000	26000	2400000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-n-propylamine	621-64-7	-	330	NA	1200	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-diphenylamine	86-30-6	-	5400	NA	1700000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	330 U	330 U	330 U	4 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.2 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Nitrobenzene	98-95-3	-	330	3600	100000	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	59-50-7	-	5800	280	4500000	µg/kg	330 U	20 J	29 J	30 J	330 U	26 J	45 J	15 J	11 J	40 J	51 J	18 J	12 J	17 J	10 J	16 J	41 J	16 J	11 J	10 J	38 J
Pentachlorophenol	87-86-5	-	22	6.7	90000	µg/kg	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
Phenanthrene	85-01-8	-	56000	2100	1600000	µg/kg	330 U	330 U	4 J	6 J	8 J	10 J	330 U	8 J	330 U	3 J	330 U	110 J	12 J	3.4 J	11 J	330 U	330 U	330 U	330 U	330 U	330 U
Phenol	108-95-2	-	88000	9000	12000000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PNAs Total	TPNA	-				µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	-	480000	ID	29000000	µg/kg	330 U	330 U	7 J	7 J	5 J	17 J	3 J	12 J	330 U	6 J	330 U	160 J	19 J	9 J	28 J	4 J	4 J	330 U	330 U	330 U	330 U
LMW PAHs		-				µg/kg	330 U	330 U	13	23	24	10	330 U	8	330 U	3	330 U	168.6	12	7.2	11	330 U	330 U	330 U	330 U	330 U	330 U
HMW PAHs		-				µg/kg	330 U	330 U	21	11	5	40	3	28	330 U	11	10	959	188	57	329	9	7	330 U	330 U	330 U	330 U
Total PAHs		-				µg/kg	330 U	330 U	34	34	29	50	3	36	330 U	14	10	1127.6	200	64.2	340	9	7	330 U	330 U	330 U	330 U
PCBs																											
PCB Total	TPCB	-			1000	µg/kg	NA	NA	8.6 J	8.1 J	19 J	8.1 J	330 U	330 U	330 U	330 U	18 J	190 J	8.8 J	330 U	330 U	330 U	330 U	330 U	9.3 J	330 U	330 U
PCB-1016	12674-11-2	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1221	11104-28-2	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1232	11141-16-5	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1242	53469-21-9	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1248	12672-29-6	-			1000	µg/kg	330 U	330 U	8.6 J	8.1 J	19 J	8.1 J	330 U	330 U	330 U	330 U	18 J	190 J	8.8 J	330 U	330 U	330 U	330 U	330 U	9.3 J	330 U	330 U
PCB-1254	11097-69-1	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PCB-1260	11096-82-5	-			1000	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	27 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SAMPLING LOCATIONS COVERED BY AT LEAST 2 FT OF CLEAN FILL

		Michigan Part 201																								
						Location	MS12	MD87	MD86	MD85	MD84	MD83	MD82	MD81	MD38	MD50	MD53	MD26	MD24	MD23	MD21	MD58	MD48	MD39	MD37	MD36	MD51
						Field ID:	MS12-0202-101903-01	MD87-0405-091203-01	MD86-0405-091203-01	MD85-0405-091203-01	MD84-0405-091203-01	MD83-0405-091203-01	MD82-0405-091203-01	MD81-0304-091203-02	MD38-0102-090903-01	MD50-0202-091003-01	MD53-0202-091003-02	MD26-0203-081903-01	MD24-0102-081903-01	MD23-0304-081903-01	MD21-0001-081903-02	MD58-0405-091103-01	MD48-0202-091003-01	MD39-0102-090903-01	MD37-0203-090903-01	MD36-0304-090903-01	MD51-0202-091003-01
						Date Sampled:	37913	37876	37876	37876	37876	37876	37876	37876	37873	37874	37874	37852	37852	37852	37852	37875	37874	37873	37873	37873	37874
						Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units																				
Total Metals																										
Aluminum, Total	7429-90-5	6900	1	NA	50000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	7440-38-2	5.8	4.6	4.6	7.6 / 9.79	mg/kg	3.5	4.9	**11**	5.6	**14**	**10**	**18**	1.9	3.6	**26**	**26**	5.5	**18**	**15**	**9**	5.4	**10**	**16**	**22**	**35**	3
Barium, Total	7440-39-3	75	1300	1910.7	37000	mg/kg	15	6.5	37	26	18	30	11	6	26	104	230	27	17	74	20	23	76	29	10	11	14
Cadmium, Total	7440-43-9	1.2	6	6.2	550	mg/kg	0.058	0.022 J	0.074	0.1	0.079	0.065	0.088	0.036 J	0.039 J	0.18	0.54	0.11	0.082	0.24	0.091	0.068	0.24	0.083	0.041 J	0.043 J	0.038 J
Chromium, Total	7440-47-3	18	1000000	230.7	790000	mg/kg	32	5.5	12	11	7.5	14	5.1	5.6	3.8	10	71	38	10	13	12	11	8.4	7.5	6.3	19	10
Copper, Total	7440-50-8	32	5800	29.3	20000	mg/kg	**40**	4.6	13	8.1	7.2	17	9.2	12	1.7	8.4	**69**	**37**	5.9	8.8	7.7	5	6.8	4.5	3.3	2.2	3.2
Lead, Total	7439-92-1	21	700	44.8	400	mg/kg	6.5	3.1	5.4	4.7	4.2	5	3.9	1.8	0.85 J	6.3	19	6.3	7.5	4.5	4.3	3.2	4.3	2	1.8	2.4	1.4
Mercury, Total	7439-97-6	0.13	1.7	.05 (M); .0012	160	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.027 J	0.075 J	0.0082 J	0.1 U	0.041 J	0.014 J	0.01 J	0.037 J	0.1 U	0.1 U	0.1 U	0.1 U
Nickel, Total	7440-02-0	20	100	168	40000	mg/kg	66	26	13	13	11	21	12	5.1	3.8	10	40	26	7.6	8.8	7.8	8.7	7.3	7.8	6.2	14	8.6
Selenium, Total	7782-49-2	0.41	4	0.4	2600	mg/kg	**0.81**	0.14 J	0.26	0.23	0.24	0.31	0.28	0.12 J	0.2 J	0.27 U	0.38 U	0.22 U	0.22	0.25 U	0.22 J	0.24 U	0.25 U	0.22 J	0.097 J	0.19 J	0.13 J
Silver, Total	7440-22-4	1	4.5	.1 (M); .027	2500	mg/kg	0.045 J	0.016 J	0.067 J	0.057 J	0.049 J	0.078 J	0.03 J	0.023 J	0.018 J	0.055 J	0.11 J	0.039 J	0.045 J	0.048 J	0.033 J	0.05 J	0.053 J	0.041 J	0.092 J	0.11 J	0.025 J
Zinc, Total	7440-66-6	47	2400	382.4	170000	mg/kg	41	147	26	28	22	31	20	14	9.4	28	341	126	25	37	33	15	30	19	14	8.8	13
Chromium, Hexavalent	18540-29-9	NA	30	3.3	2500	mg/kg	0.55 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.7 J	27 U	1.3 J	2 U	0.87 J	0.29 J	31 U	1.3 J	2 U	2 U	2 U	1.3 J
Misc																										
Cyanide, Available	57-12-5					mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
[illegible], Total	57-12-5	0.39	4	0.1	12	mg/kg	0.2 U	0.04 J	0.2 U	0.05 J	0.04 J	0.12 J	**0.93**	**1.9**	0.2 U	0.24	0.23	0.13 J	0.1 J	0.2 U	0.2 U	0.2 U	0.12 J	0.033 J	0.2 U	0.2 U	0.036 J

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

GSI for Barium, Cadmium, Chromium (III), Copper, Lead, Manganese, Nickel, Pentachlorophenol, and Zinc were calculated based on pH 7, Hardness 400 mg CaCO3/L

Bold Values	Exceedences of Highlighted Criteria
Non-Bold Values	Exceedances of Highlighted Criteria, but below statewide default background levels

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

							OVERBANK TRANSECTS NORTH OF GRAND RIVER						
						Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
						Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
						Date Sampled:	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Duplicate	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units							
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	630-20-6	-	1500	ID	440000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,1-Trichloroethane	71-55-6	-	4000	1800	460000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,2,2-Tetrachloroethane	79-34-5	-	170	1600	53000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1,2-Trichloroethane	79-00-5	-	100	6600	180000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloroethane	75-34-3	-	18000	15000	890000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloroethene	75-35-4	-	140	2600	200000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,1-Dichloropropene	563-58-6	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,3-Trichlorobenzene	87-61-6	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,3-Trichloropropane	96-18-4	-	840	NA	830000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (X)	990000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2,4-Trimethylbenzene	95-63-6	-	2100	570	110000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dibromo-3-chloropropane	96-12-8	-	10(M); 4.0	ID	1200 (C)	µg/kg	*310 U*	*480 U*	*420 U*	*420 U*	*490 U*	*400 U*	*360 U*
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000 (C)	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dichloroethane	107-06-2	-	100	7200 (X)	91000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Dichloroethene (Total)	540-59-0	-				µg/kg	120 U	190 U	170 U	170 U	200 U	160 U	140 U
1,2-Dichloropropane	78-87-5	-	100	4600 (X)	140000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,3,5-Trimethylbenzene	108-67-8	-	1800	1100	94000 (C)	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1[illegible]lorobenzene	541-73-1	-	170	680	170000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,[illegible]loropropane	142-28-9	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,4-Dichlorobenzene	106-46-7	-	1700	360	400000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2,2-Dichloropropane	594-20-7	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Chlorotoluene	95-49-8	-	3300	ID	500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Hexanone	591-78-6	-	20000	ID	2500000	µg/kg	3100 U	4800 U	4200 U	4200 U	4900 U	4000 U	3600 U
4-Chlorotoluene	106-43-4	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
4-Isopropyltoluene	99-87-6	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
4-Methyl-2-pentanone (MIBK)	108-10-1	-	36000	ID	2700000 (C	µg/kg	3100 U	4800 U	4200 U	4200 U	4900 U	4000 U	3600 U
Acetone	67-64-1	-	15000	34000	23000000	µg/kg	200 J	1400 U	150 J	1300 U	1500 U	1200 U	1100 U
Acrolein	107-02-8	-	2400	NA	3600000	µg/kg	310 U	480 U	420 U	420 U	490 U	400 U	360 U
Benzene	71-43-2	-	100	4000 (X)	180000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromobenzene	108-86-1	-	550	NA	540000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromochloromethane	74-97-5	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromoform	75-25-2	-	1600 (W)	ID	820000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Bromomethane	74-83-9	-	200	700	320000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Carbon Disulfide	75-15-0	-	16000	ID	280000	µg/kg	*310 U*	*480 U*	*420 U*	*420 U*	*490 U*	*400 U*	*360 U*
Carbon Tetrachloride	56-23-5	-	100	900 (X)	96000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chlorobenzene	108-90-7	-	2000	500	260000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloroethane	75-00-3	-	8600	22000 (X)	950000 (C)	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloroform	67-66-3	-	1600 (W)	7000	1200000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Chloromethane	74-87-3	-	5200	ID	1100000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
cis-1,2-Dichloroethene	156-59-2	-	1400	12000	640000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
cis-1,3-Dichloropropene	10061-01-5	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dibromochloromethane	124-48-1	-	1600 (W)	ID	110000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dibromomethane	74-95-3	-	1600	NA	2000000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Dichlorobromomethane	75-27-4	-				µg/kg	NA		NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	-	95000	ID	1000000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Ethylbenzene	100-41-4	-	1500	360	140000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Ethylene dibromide	106-93-4	-	20 (M); 1.0	110 (X)	92	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
I[illegible]lbenzene	98-82-8	-	91000	3200	390000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2-Butanone (MEK)	78-93-3	-	260000	44000	27000000 (C,DD)	µg/kg	70 J	93 J	83 J	86 J	88 J	78 J	60 J
Methyl tert-Butyl Ether	1634-04-4	-	800	140000	1500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Methylene Chloride	75-09-2	-	100	30000 (X)	1300000	µg/kg	50 J	110 J	42 J	54 J	59 J	55 J	85 J
n-Butylbenzene	104-51-8	-	1600	ID	2500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

							OVERBANK TRANSECTS NORTH OF GRAND RIVER						
						Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
						Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
						Date Sampled:	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Duplicate	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units							
n-Propylbenzene	103-65-1	-	1600	ID	2500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	4.9 J	480 U	420 U	420 U	490 U	400 U	360 U
Xylene, Ortho	95-47-6	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
sec-Butylbenzene	135-98-8	-				µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Styrene	100-42-5	-	2700	2100 (X)	400000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
tert-Butylbenzene	98-06-6	-	1600	ID	2500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Tetrachloroethene	127-18-4	-	100	1200 (X)	88000 ©	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Toluene	108-88-3	-	16000	5400	250000 (C)	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
trans-1,2-Dichloroethene	156-60-5	-	2000	30000	1400000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
trans-1,3-Dichloropropene	10061-02-6	-			10000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Trichloroethene	79-01-6	-	100	4000	500000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Trichlorofluoromethane	75-69-4	-	5200	NA	560000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Vinyl Chloride	75-01-4	-	40	260	3800	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Xylene, Meta + Para	Not Applicable	-			1E+24	µg/kg	120 U	190 U	170 U	170 U	200 U	160 U	140 U
Xylene, Total													
1,2,4-Trichlorobenzene	120-82-1	-	4200	5900 (x)	990000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,2-Benzphenanthracene	218-01-9	-			2000000	µg/kg	190	160	140	95	230	190	170
1,2-Dichlorobenzene	95-50-1	-	14000	280	210000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1 lorobenzene	541-73-1	-	170	680	170000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
1,4 ilorobenzene	106-46-7	-	1700	360	400000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
2,4,5-Trichlorophenol	95-95-4	-	39000	NA	23000000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4,6-Trichlorophenol	88-06-2	-	2400	330 (M), 100	710000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4-Dichlorophenol	120-83-2	-	1500	330 (M), 220	660000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2,4-Dimethylphenol	105-67-9	-	7400	7600	11000000	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
2,4-Dinitrophenol	51-28-5	-			1E+24	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
2,4-Dinitrotoluene	121-14-2	-	430	NA	48000	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
2,6-Dinitrotoluene	606-20-2	-			1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Chloronaphthalene	91-58-7	-	620000	NA	56000000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Chlorophenol	95-57-8	-	900	360	1400000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Methylnaphthalene	91-57-6	-	57000	4200	8100000	µg/kg	4.0 J	35 U	28 U	28 U	3.3 J	2.9 J	2.4 J
2-Methylphenol	95-48-7	-			11000000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Nitroaniline	88-74-4	-			1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
2-Nitrophenol	88-75-5	-	400	ID	630000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
3,3'-Dichlorobenzidine	91-94-1	-	2000 (m), 2	2000 (m), 7.4	6600	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
3+4-Methylphenol	108-39-4	-			11000000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
3-Nitroaniline	99-09-2	-			1E+24	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
4,6-Dinitro-2-methylphenol	534-52-1	-			79000	µg/kg	88 U	140 U	110 U	110 U	130 U	110 U	96 U
4-Bromophenyl Phenyl Ether	101-55-3	-			1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Chloroaniline	106-47-8	-			1E+24	µg/kg	44 U	69 U	56 U	56 U	66 U	57 U	48 U
4-Chlorophenyl Phenyl Ether	7005-72-3	-			1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Methylphenol	106-44-5	-			11000000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
4-Nitroaniline	100-01-6	-			1E+24	µg/kg	88 U	140 U	110 U	110 U	130 U	110 U	96 U
4-Nitrophenol	100-02-7	-			1E+24	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Acenaphthene	83-32-9	-	300000	8700	41000000	µg/kg	13 J	6.3 J	12 J	6.2 J	9.3 J	8.0 J	7.1 J
Acenaphthylene	208-96-8	-	5900	ID	1600000	µg/kg	12 J	4.2 J	8.9 J	5.6 J	9.9 J	8.0 J	6.6 J
Anthracene	120-12-7	-	41000	ID	230000000	µg/kg	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	-	NLL	NLL	20000	µg/kg	250	140	210	100	250	200	180
Benzidine	92-87-5	-	1000	1000	1000	µg/kg	880 U	1400 U	1100 U	1100 U	1300 U	1100 U	960 U
Benzo(a)pyrene	50-32-8	-	NLL	NLL	2000	µg/kg	140	130	130	81	220	210	170
B fluoranthene	205-99-2	-	NLL	NLL	20000	µg/kg	280	210	190	110	350	350	250
Be g,h,i)perylene	191-24-2	-	NLL	NLL	2500000	µg/kg	90	91	86	43 J	120	110	93
Benzo(k)fluoranthene	207-08-9	-	NLL	NLL	200000	µg/kg	88	93	100	52	120	130	98
Benzoic Acid	65-85-0	-	640000	NA	990000000	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Benzyl Alcohol	100-51-6	-	200000	NA	5800000	µg/kg	140	130	210	300	200	150	59
Bis(2-chloroethoxy)methane	111-91-1	-			1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

							OVERBANK TRANSECTS NORTH OF GRAND RIVER						
						Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
						Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
						Date Sampled:	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Duplicate	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				**Sample Event**	2009	2009	2009	2009	2009	2009	2009
	CAS	**State Wide Default Background Levels**	**Drinking Water Protection Criteria & RBSLs**	**Groundwater Surface Water Interface Protection Criteria & RBSLs**	**Direct Contact Criteria & RBSLs**	**Units**							
Bis(2-chloroethyl) Ether	111-44-4	-	100	100	13000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
bis(2-Chloroisopropyl)ether	108-60-1	-			1E+24	µg/kg	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) Phthalate	117-81-7	-	NLL	NLL	2800000	µg/kg	35 JB	66 JB	63 B	51 JB	71	52 J	42 JB
Butyl Benzyl Phthalate	85-68-7	-	310000	120000	310000	µg/kg	7.2 J	21 J	45 J	56 U	14 J	15 J	48 U
Carbazole	86-74-8	-	9400	1100	530000	µg/kg	440 U	690 U	560 U	560 U	660 U	570 U	480 U
Chrysene	218-01-9	-	NLL	NLL	2000000	µg/kg	190	160	140	95	230	190	170
Di-n-butyl Phthalate	84-74-2	-	760000	11000	760000	µg/kg	220 U	350 U	42 J	280 U	330 U	280 U	240 U
Di-n-octyl Phthalate	117-84-0	-	1E+08	ID	6900000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Dibenz(a,h)anthracene	53-70-3	-	NLL	NLL	2000	µg/kg	22 J	31 J	39 J	56 U	32 J	33 J	24 J
Dibenzofuran	132-64-9	-	ID	1700	1E+24	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Diethyl Phthalate	84-66-2	-	110000	2200	740000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Dimethyl Phthalate	131-11-3	-	790000	NA	790000	µg/kg	22 U	35 U	7.2 J	28 U	33 U	28 U	24 U
Fluoranthene	206-44-0	-	730000	5500	46000000	µg/kg	470	270	340	160	510	340	330
Fluorene	86-73-7	-	390000	5300	27000000	µg/kg	25	35 U	17 J	28 U	29 J	18 J	15 J
Hexachlorobenzene	118-74-1	-	1800	350	8900	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Hexachlorobutadiene	87-68-3	-	26000	91	100000	µg/kg	62 U	97 U	83 U	85 U	99 U	80 U	72 U
Hexachlorocyclopentadiene	77-47-4	-	320000	ID	720000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Hexachloroethane	67-72-1	-	430	1800	230000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Indeno(1,2,3-cd)pyrene	193-39-5	-	NLL	NLL	20000	µg/kg	70	91	72	51 J	110	120	83
Isophorone	78-59-1	-	15000	26000	2400000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
N-Nitroso-di-n-propylamine	621-64-7	-	330	NA	1200	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
N-Nitroso-diphenylamine	86-30-6	-	5400	NA	1700000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Naphthalene	91-20-3	-	35000	730	16000000	µg/kg	4.9 J	480 U	420 U	420 U	490 U	400 U	360 U
Nitrobenzene	98-95-3	-	330	3600	100000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
p-Chloro-m-cresol	59-50-7	-	5800	280	4500000	µg/kg	22 U	35 U	28 U	28 U	33 U	28 U	24 U
Pentachlorophenol	87-86-5	-	22	6.7	90000	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
Phenanthrene	85-01-8	-	56000	2100	1600000	µg/kg	360	150	240	130	340	250	240
Phenol	108-95-2	-	88000	9000	12000000	µg/kg	220 U	350 U	280 U	280 U	330 U	280 U	240 U
PNAs Total	TPNA	-				µg/kg	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	-	480000	ID	29000000	µg/kg	510	320	380	180	500	380	350
LMW PAHs		-				µg/kg	418.9	160.5	277.9	141.8	391.5	286.9	271.1
HMW PAHs		-				µg/kg	2110	1536	1687	872	2442	2063	1748
Total PAHs		-				µg/kg	2528.9	1696.5	1964.9	1013.8	2833.5	2349.9	2019.1
PCBs													
PCB Total	TPCB	-			1000	µg/kg	180 J	26 J	207 J	44 J	33 J	27 J	40 J
PCB-1016	12674-11-2	-			1000	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1221	11104-28-2	-			1000	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1232	11141-16-5	-			1000	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1242	53469-21-9	-			1000	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1248	12672-29-6	-			1000	µg/kg	110 J	26 J	120 J	34 J	33 J	27 J	40 J
PCB-1254	11097-69-1	-			1000	µg/kg	440 U	690 U	550 U	560 U	650 U	560 U	480 U
PCB-1260	11096-82-5	-			1000	µg/kg	70 J	690 U	87 J	10 J	650 U	560 U	480 U

TABLE 13
OVERBANK ANALYTICAL RESULTS - PART 201 SOIL SCREENING
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

							OVERBANK TRANSECTS NORTH OF GRAND RIVER						
						Location	N West Overbank	N West Overbank	O West Overbank	P West Overbank	N East Overbank	O East Overbank	P East Overbank
						Field ID:	N-09-WO	M-09-WB-DUP	O-09-WO	P-09-WO	N-09-EO	O-09-EO	P-09-EO
						Date Sampled:	40130	40130	40130	40130	40130	40130	40130
						Data Type	Original	Duplicate	Original	Original	Original	Original	Original
						Material Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Michigan Part 201				Sample Event	2009	2009	2009	2009	2009	2009	2009
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units							
Total Metals													
Aluminum, Total	7429-90-5	6900	1	NA	50000	mg/kg	4100	6800	**8000**	6300	4600	**8400**	5400
Arsenic, Total	7440-38-2	5.8	4.6	4.6	7.6 / 9.79	mg/kg	**12**	**21**	**21**	**17**	**13**	**18**	**20**
Barium, Total	7440-39-3	75	1300	1910.7	37000	mg/kg	73	160	160	120	78	120	69
Cadmium, Total	7440-43-9	1.2	6	6.2	550	mg/kg	0.39	0.61	0.76	0.44	0.52	0.6	0.39
Chromium, Total	7440-47-3	18	1000000	230.7	790000	mg/kg	190	110	**830**	**260**	160	220	120
Copper, Total	7440-50-8	32	5800	29.3	20000	mg/kg	**120**	**92**	**610**	**150**	**95**	**110**	**72**
Lead, Total	7439-92-1	21	700	44.8	400	mg/kg	32	28	**63**	24	**48**	38	25
Mercury, Total	7439-97-6	0.13	1.7	.05 (M); .0012	160	mg/kg	**0.15**	0.091	**0.26**	0.12	**0.15**	**0.16**	0.095
Nickel, Total	7440-02-0	20	100	168	40000	mg/kg	48	52	**160**	62	40	40	31
Selenium, Total	7782-49-2	0.41	4	0.4	2600	mg/kg	**0.46**	**0.9**	**0.91**	**0.68**	**0.54**	**0.78**	**0.55**
Silver, Total	7440-22-4	1	4.5	.1 (M); .027	2500	mg/kg	0.079	0.087	0.14	0.081	0.094	0.12	0.076
Zinc, Total	7440-66-6	47	2400	382.4	170000	mg/kg	190	190	**510**	190	170	230	120
Chromium, Hexavalent	18540-29-9	NA	30	3.3	2500	mg/kg	2.6 U	0.50 J	2.9 U	3.1 U	0.41 J	3.2 U	2.9 U
Misc													
Cyanide, Available	57-12-5					mg/kg	NA	NA	0.59	1.0	1.2	1.5	1.1
[illegible], Total	57-12-5	0.39	4	0.1	12	mg/kg	0.10 J	0.15 J	**0.61**	0.30	0.39	**0.42**	0.26

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Inidcates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank.

GSI for Barium, Cadmium, Chromium (III), Copper, Lead, Manganese, Nickel, Pentachlorophenol, and Zinc were calculated based on pH 7, Hardness 400 mg CaCO3/L

Bold Values	Exceedences of Highlighted Criteria
Non-Bold Values	Exceedances of Highlighted Criteria, but below statewide default background levels

TABLE 14:

OVERBANK SWAC ANALYSIS SUMMARY – PART 201 SOIL SCREENING

TABLE 14
OVERBANK SWAC ANALYSIS SUMMARY
PART 201 CRITERIA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

OVERBANK SWAC ANALYSIS SUMMARY
MICHIGAN PART 201 CRITERIA

							Transects A through M				Transects N through P				Transects A through P			
							OverBank SWAC				OverBank SWAC				OverBank SWAC			
	CAS	State Wide Default Background Levels	Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Direct Contact Criteria & RBSLs	Units	SWAC VALUES	SWAC Exceeds Drinking Water	SWAC Exceeds GWSI	SWAC Exceeds Direct Contact	SWAC VALUES	SWAC Exceeds Drinking Water	SWAC Exceeds GWSI	SWAC Exceeds Direct Contact	SWAC VALUES	SWAC Exceeds Drinking Water	SWAC Exceeds GWSI	SWAC Exceeds Direct Contact
Volatile Organic Compounds																		
Methylene Chloride	75-09-2	-	100	30000 (X)	1300000	µg/kg	46.34	No	No	No	71.03	No	No	No	55.11	No	No	No
Trichloroethene	79-01-6	-	100	4000	500000	µg/kg	12.58	No	No	No	15.66	No	No	No	13.67	No	No	No
Total Metals																		
Aluminum, Total	7429-90-5	6900	1	NA	50000	mg/kg	4054.32	<SWD	No	No	6444.25	<SWD	No	No	4903.24	<SWD	No	No
Arsenic, Total	7440-38-2	5.8	4.6	4.6	7.6 / 9.79	mg/kg	11.24	**Yes**	**Yes**	No	17.97	**Yes**	**Yes**	No	13.63	**Yes**	**Yes**	No
Chromium, Total	7440-47-3	18	1000000	230.7	790000	mg/kg	71.82	No	No	No	272.11	No	**Yes**	No	142.97	No	No	No
Copper, Total	7440-50-8	32	5800	29.3	20000	mg/kg	41.78	No	**Yes**	No	175.52	No	**Yes**	No	89.29	No	**Yes**	No
Lead, Total	7439-92-1	21	700	44.8	400	mg/kg	18.50	No	No	No	39.75	No	No	No	26.05	No	No	No
Mercury, Total	7439-97-6	0.13	1.7	.05 (M); .0012	160	mg/kg	0.08	No	No	No	0.16	No	No	No	0.10	No	No	No
Nickel, Total	7440-02-0	20	100	168	40000	mg/kg	23.91	No	No	No	60.24	No	No	No	36.81	No	No	No
Selenium, Total	7782-49-2	0.41	4	0.4	2600	mg/kg	0.47	No	**Yes**	No	0.73	No	**Yes**	No	0.56	No	**Yes**	No
Zinc, Total	7440-66-6	47	2400	382.4	170000	mg/kg	121.14	No	No	No	226.61	No	No	No	158.60	No	No	No
Chromium, Hexavalent	18540-29-9	NA	30	3.3	2500	mg/kg	0.20	No	No	No	0.29	No	No	No	0.23	No	No	No
Misc																		
Cyanide, Available	57-12-5					mg/kg	0.22	NA	NA	No	0.84	NA	NA	No	0.44	NA	NA	No
Cyanide, Total	57-12-5	0.39	4	0.1	12	mg/kg	0.13	No	<SWD	No	0.34	No	<SWD	No	0.21	No	<SWD	No

Notes:

*U - All Values are "U" valuesIndicating th result was not detected above the method detection limit.

NA - Indicates that the sample was not analyzed for that parameter.

<SWD - Indicates number exceeds criteria, but is below state wide default concentration

Values that are Bold and Highlighted Indicate an exceedance of the specified criteria

APPENDIX A

APPENDIX A:

LETTERS, CORRESPONDENCE, AND MEETING MINUTES

2009 June 19: Letter From EPA To JCI – Final Corrective Measures Implementation And Remedial Objectives

2011 May 17: EPA/JCI/CTI – Conference Call Agenda And Meeting Minutes

2011 July 22: EPA/JCI/CTI – Conference Call Agenda And Meeting Minutes

2011 December 5: Letter From EPA To JCI – Revision To EPA Letter

2012 March 8: Letter From MDEQ To EPA

2012 March 22: EPA/JCI/CTI – Conference Call Agenda And Meeting Minutes

2012 April 19: EPA Comments To March 22: EPA/JCI/CTI – Conference Call Agenda And Meeting Minutes

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

June 19, 2009

REPLY TO THE ATTENTION OF:

LU-9J

CERTIFIED MAIL
RETURNED RECEIPT REQUESTED

Mr. Michael L. Stoelton
Johnson Controls, Inc.
Automotive Experience
49200 Halyard Drive
Plymouth, Michigan 48170

Re: Final Corrective Measures Implementation
(Sediments)

Dear Mr. Stoelton:

The United States Environmental Protection Agency (U.S.EPA) has completed its review of Johnson Controls, Inc. (JCI), Baseline Ecological Risk Assessment (BERA), dated March 2008. This document was submitted as a component of JCI's Technical Report dated April 2008. JCI completed the BERA in response to the U.S.EPA Region 5, December 1, 2006 Final Decision and Response to Comments, Selection of Remedial Alternative for Johnson Controls, Inc. (Former Stanley Tools Facility) Fowlerville, Michigan (FD&RTC). The Final Decision and Response to Comments Document presented among other remedial measures, excavation of the Red Cedar River Sediments as a remedial measure. An outcome of the BERA was the establishment of site-specific cleanup levels that are to be implemented as target cleanup goals of the river sediments. EPA did not agree with all of JCI's proposed remedial objectives (ROs). As such, this letter summarizes EPA's proposed remedial cleanup objectives to be implemented as part of the JCI Final Corrective Measures of the Red Cedar River Sediments, as determined from our review of JCI's Baseline Ecological Risk Assessment Report, JCI Final Corrective Measures Proposal and EPA Final Decision and Response to Comments Selection of Remedial Alternatives for Johnson Controls, Inc.

U.S.EPA Region 5 has established that the degree of cleanup in the river sediments is based on the goal of protecting the animals that live part or all of their lives in the sediment (benthic organisms). They are important in the food chain of the river's ecosystem. Areas of river sediments that are contaminated at levels considered unsafe for aquatic animals would be removed from the river. EPA's proposed remedial cleanup objectives have been developed by application of the Superfund Program's Triad Approach to assessing sediment conditions. EPA had accepted application of this Triad approach from JCI in its Corrective Measures Proposal

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Work Plan. The Triad uses these three lines of evidence, as summarized in the Work Plan. The three lines of evidence used to analyze sediment toxicity are as follows:

A. Comparing observed effects in the benthic macroinvertebrate communities associated with the site with benthic macroinvertebrate communities at a reference area (i.e., community surveys)

B. Comparing estimated or measured exposure levels for a particular chemical against screening levels that are known from the literature to be toxic, i.e., MacDonald Ingersoll consensus-based values ("toxicity benchmarks")

C. Comparing laboratory test (bioassays) results using sediment from the site and from a reference site.

Based upon EPA's review of JCI's BERA, JCI did not equally weigh consideration of all three lines of evidence in its development of proposed remedial objectives. Hence, EPA has modified JCI proposed sediment remedial cleanup objectives as illustrated in Table 1.

Table 1. EPA's Remedial Objectives for Red River Sediments

Constituent	Chromium	Nickel	Zinc	Copper	**Lead**
Remedial Objective mg/kg	110	49	460	91	**83**
PEC mg/kg	110	49	460	150	**130**
MEC mg/kg	76.5	36	290	91	**83**

PECs and MECs from Wisconsin Department of Natural Resources, 2003.
PECs – probable effect concentration
MECs - median effects concentration

References

Wisconsin Department of Natural Resources, December 2003. *Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application Interim Guidance*. WT-732 2003.

JCI in its approved CMP Work Plan indicated that three lines of evidence would be used to develop ROs for individual constituents, i.e., bulk sediment toxicity tests, sediment chemistry compared to screening levels, and benthic community surveys. However, JCI proposed ROs are based predominantly on the results of one set of toxicity tests. EPA cleanup objectives are modified from JCI's proposed remedial cleanup objectives and are based more broadly on the available lines of evidence, are more conservative, and are therefore considered to be more protective of the environment. Implementation of these proposed cleanup objectives, hence excavation of Red Cedar River Sediments, will be based upon sampling data from 2003 and 2007. It should be noted here that JCI will contact the U.S.EPA Project Manager to discuss the

RO for lead at any downstream locations where there could be possible confounding sources of lead contamination. ROs for theses locations may be modified from the EPA proposed RO on a case by case basis.

JCI is now required to develop a *Remedial Design Plan* which will describe areas subject to excavation. EPA expects that areas planned for excavation will be of such volume that contamination will be removed from and between targeted sampling points such that they are below remedial objectives to be established by verification sampling. It is recommended that JCI allow U.S.EPA Region 5 collaborative input into its planned *Remedial Design Plan* such that JCI can maintain its proposed schedule for sediment corrective measures implementation. It is also expected that remediation will occur this summer or early fall.

Upon completion of the sediment excavation, JCI is required in accordance with the December 2002, 3008(h) Administrative Order on Consent, to complete a *Final Remedy Construction Completion Report* documenting all work that it has performed. *The Final Remedy Construction Completion Report* will be submitted by JCI within sixty days after sediment remediation is completed.

U.S.EPA looks forward to your continued cooperation. Please feel free to contact me at 312-886-6010 at your discretion.

Sincerely,

Juan Thomas, Project Manager,
Environmental Scientist

Cc. Jennifer Bolger, Gonzalez Saggio & Harlan LLP (electronic copy)
Lou Pieh, Saggio & Harlan LLP (electronic copy)
Andrew Lonergan, CTI & Associates (electronic copy)
Patricia A. Thomson, Entact & Associates (electronic copy)
David Slayton, MDEQ (electronic copy)
Tom Williams, U.S.EPA, ORC (electronic copy)
Carolyn Bury, U.S.EPA, RRB (electronic copy)

CONFERENCE CALL AGENDA and MINUTES

Date: 17 May 2011, 11:00 AM Central

Subject: USEPA Letter dated April 26, 2011
Sediment Remedial Design Plan
Former Stanley Tools Site

Participants: J. Thomas, USEPA
D. Mazer, USEPA
M. Stoelton, Johnson Controls
A. Lonergan, CTI
J. Dickson, CTI

AGENDA ITEMS AND MINUTES (*in italics*)

1. Letter received and reviewed, several questions
   DISCUSSION DURING CALL:
   - *Introductions were made.*
   - *JCI gave brief historical overview of work toward reaching agreement on scope for planned dredging effort.*
   - *JCI stated that JCI wanted to continue working in collegial manner and wanted to discuss contents of letter on point-by-point basis.*
   - *USEPA concurred that this discussion is a good idea.*

2. Discuss statement that additional "hot spot areas" are to be included
   a) We want to identify the path forward
   b) Schedule
   DISCUSSION DURING CALL:
   - *JCI acknowledged the USEPA's concurrence with Option 2 (from the Sediment Remedial Design Plan (Jan., 2009) and Addendum to the Sediment Remedial Design Plan (Nov., 2010)) as the preferred corrective action for sediments at the site in their letter dated April 26, 2011.*
   - *JCI stated that we were not in agreement with some of the other points made in the letter regarding corrective action beyond Option 2, and that reaching agreement on these points will help keep the schedule moving.*

3. "Hot Spots at transects H through L"
   a) Ni and Cr mentioned at Location I3
   b) All detections at location I3 are below their respective RO
   c) Are there other areas?
   DISCUSSION DURING CALL:
   - *Points a, b, and c were discussed.*
   - *JCI stated that JCI was planning to cleanup remedial objective (RO) exceedences, but was not considering sediment removal at any locations between transects H and L because there were no RO exceedences in that stretch of the stream.*

- *USEPA responded that they had not fully considered the June 19, 2009 RO letter in the preparation of their April 26, 2011 letter and would re-visit statements in the letter regarding transects H through L.*
- *It was agreed that a clarification on this point may be necessary and would be considered after the other agenda items were discussed.*

4. "SWMUs" north of Grand River Avenue (top of page 2)
   a) We're not aware of any

   DISCUSSION DURING CALL:
   - *JCI stated that we were not aware of any SWMUs north of Grand River Avenue.*
   - *USEPA indicated that the statement was incorrect and would be corrected in subsequent communication.*
   - *JCI requested that the April 26, 2011 letter be retracted and that a new letter be prepared so that written record for the site would remain accurate.*
   - *USEPA stated that they would take the suggestion to retract the letter under consideration.*
   - *It was agreed that JCI would provide an updated map to USEPA showing the location of all SWMUs relative to the river and Grand River Avenue.*

5. Arsenic
   a) Location M1 >PEC

   DISCUSSION DURING CALL:
   - *Arsenic results at location M1 were discussed.*
   - *JCI agreed that the M1 location should be included in the dredging program and that this would be accomplished by extending the planned excavation at the L transect to include the M1 area.*

   b) Location P3 >PEC – isolated, outlier

   DISCUSSION DURING CALL:
   - *Arsenic results at location P3 were discussed.*
   - *JCI stated that this area should not be included in the dredging program because it is an isolated outlier, appears to be of a very limited extent, and excavation of the area would likely cause more harm than benefit to the environment.*
   - *USEPA acknowledged that the points made above may be valid and suggested that the mean PEC quotient approach (referenced in the MacDonald and WDNR papers on TECs/PECs) could be applied to quantify the overall hazard associated with the detections at the P3 location.*
   - *It was agreed that CTI would perform the mean PEC quotient calculations for the P3 location, and that the results would be transmitted to USEPA via email for their use in the re-issued April 26, 2011 letter.*

6. SVOCs North of Grand River Avenue
   a) Locations O2 and N3 referenced in letter
   b) Individual compounds exceed their respective PEC
   c) Total PAH at or slightly below the MEC

d) Remediation "recommended" for locations O2 and N3

DISCUSSION DURING CALL:

- *PAH results at locations O2 and N3 were discussed.*
- *JCI stated that these two spots should not be included in the dredging program because of their isolated nature; the limited occurrence of PAHs between the site and the Grand River bridge; the influx of road and municipal runoff entering the stream at the bridge is the likely cause of the increase PAH concentrations observed downstream of the bridge; and that excavation of these areas would likely cause more harm than benefit to the environment.*
- *USEPA acknowledged that the points made above may be valid and suggested that the mean PEC quotient approach (referenced in the MacDonald and WDNR papers on TECs/PECs) could be applied to quantify the overall hazard associated with the detections at locations O2 and N3.*
- *It was agreed that CTI would perform the mean PEC quotient calculations for the O2 and N3 locations, and that the results would be transmitted to USEPA via email for their use in the re-issued April 26, 2011 letter.*

7. Point by Point vs. Mean vs. SWAC

   a) Multi-Incremental sampling for area North of Grand River Bridge

   DISCUSSION DURING CALL:

   - *JCI stated that the baseline (prior to dredging) SWAC calculation presented in the Design Report showed that ROs were not exceeded for the River and that the dredging program proposed in the report will remove all single-point RO exceedences.*
   - *Further discussion of items listed in this point was tabled until the mean PEC quotient calculations referenced above were performed.*

8. Request for statement on overbanks sediments

   DISCUSSION DURING CALL:

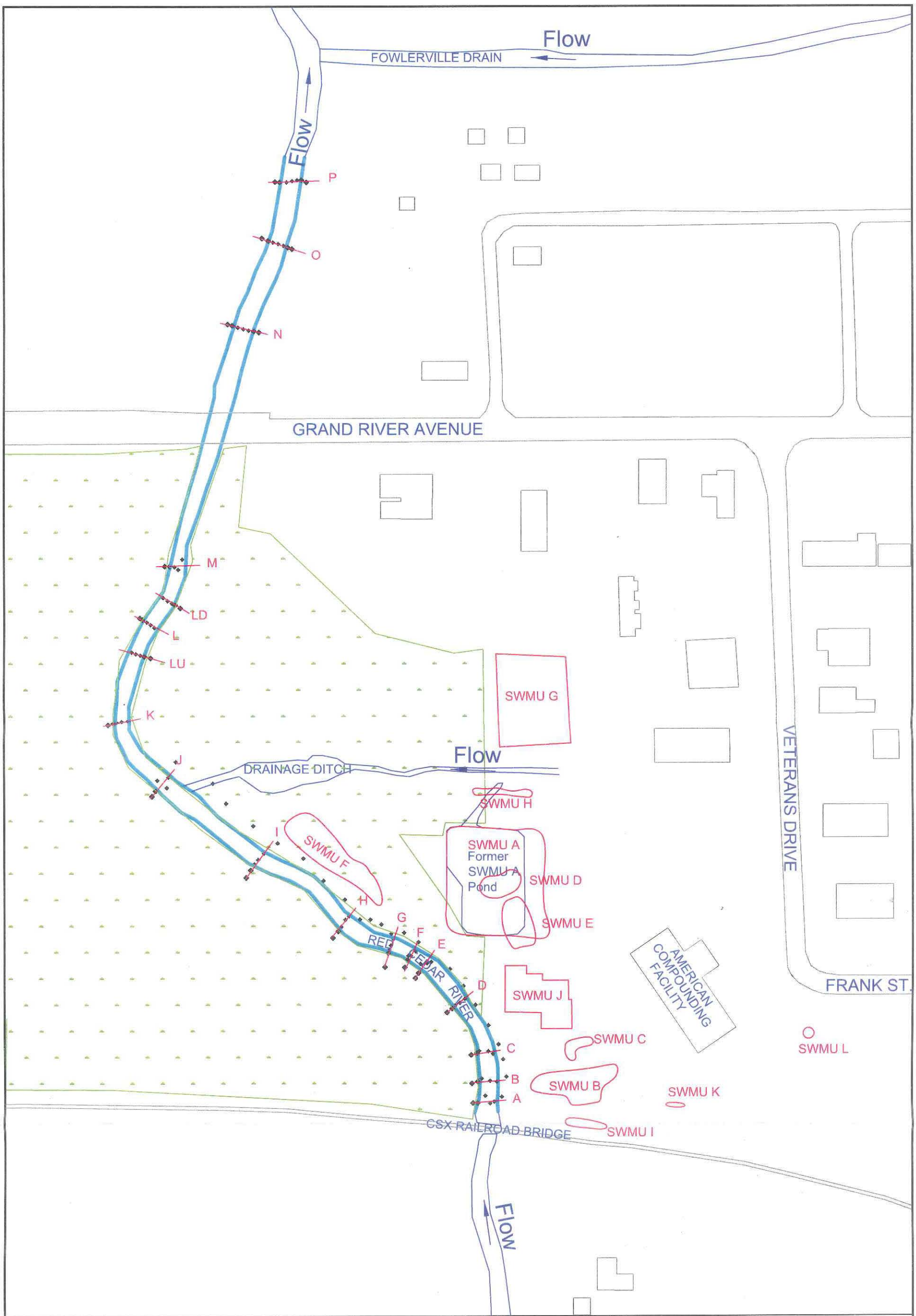
   - *JCI briefed USEPA on overbank sampling completed for the site; prior discussions with USEPA regarding terrestrial analysis of overbank data; submission of the 2010 Addendum to the Design Report, which contained the requested analyses; JCI's position that overbank corrective action was not required; and previous requests for a definitive statement from USEPA regarding corrective action in the overbank areas.*
   - *USEPA acknowledged the benefit of providing such a statement.*
   - *USEPA stated that they would evaluate the terrestrial overbank data analysis presented in the 2010 Addendum and develop a statement on corrective action in overbank areas.*
   - *JCI stated that assistance in the USEPA's evaluation of the 2010 Addendum and overbank data would be provided if requested.*

9. USEPA discussions with MDEQs

   DISCUSSION DURING CALL:

   - *JCI inquired about the status of USEPA discussions with the MDEQ regarding the 2010 Addendum.*

- *JCI stated that MDEQ concurrence was important because of their role in obtaining permits for the dredging effort and meeting JCI's goal of removing the potential for "re-openers" after the dredging effort is complete.*
- *USEPA stated that no discussions with MDEQ had occurred since the submittal of the 2010 Addendum but indicated that the MDEQ was copied on the April 26, 2011 letter.*
- *It was agreed that MDEQ's feedback should be sought regarding the 2010 Addendum, the USEPA's concurrence with the recommended sediment removal option presented in the Design Plan, and the USEPA's position on corrective action in overbank areas and areas north of the Grand River Bridge.*



0 75 150
SCALE IN FEET

LEGEND

- Approximate Location of National Wetland Inventory Boundary
- Approximate SWMU Boundary
- Actual River Boundary Based on 2009 Survey Data

Designed By: C.KOGANTI Drawn By: C.KOGANTI Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	REVISIONS:	CLIENT: JCI Plymouth, MI	SEDIMENT DESIGN PLAN ADDENDUM FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI SAMPLE TRANSECT LOCATIONS WITH SWMUs	CTI and Associates, Inc	
DATE May 2011 PROJECT NO. 095010XXX FIGURE NO. 1					

Mean PEC Q Calculation
Former Stanley Tools Facility
Fowlerville Michigan

	N3	O2	P3
PAHs			
Calculated Mean PEC-Qpah	0.468	0.317	0.024
Mean PEC-Qpah	0.463	0.237	0.011
Metals			
Mean PEC-Qmetals	0.085	0.067	**0.693**
Overall			
Mean PEC-Q overall (PAH Calculated)	0.277	0.192	0.359
Mean PEC-Q overall	0.274	0.152	0.352

Note: <0.5 is acceptable risk
The Overall utilized PAHs and Metals since they are the only chemicals with PEC Excedances North of Grand River Avenue.

Sediment Sampling Location N3

								Location	SD-N3	Mean PEC Quotient Calculations			
								Field ID:	N-09-SD-3A 0911425-16				
								Date Sampled:	40136				
								Data Type	Original				
	Consensed-Based Sediment Quality							Material Type	Sediment				
								Sample Event	2009	TOC = 1.2			
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL		Depth (inches):		0 - 15	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds														
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	ug/kg		6.9 J	6.9	5.75	201	0.029	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	ug/kg		93 J	93	77.5	89	0.871	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	ug/kg		21 J	21	17.5	128	0.137	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	ug/kg		310	310	258.334	845	0.306	1
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	ug/kg		**1000**	1000	833.334	1050	0.794	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	ug/kg		710	710	591.667	1450	0.409	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	ug/kg		1300	1300	1083.334	13400	0.081	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	ug/kg		410	410	341.667	3200	0.107	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	ug/kg		480	480	400	13400	0.03	1
Chrysene	166	728	1290	350	**166**	218-01-9	ug/kg		830	830	691.667	1290	0.537	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	ug/kg		100 J	100	83.334	135	0.618	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	ug/kg		2800	2800	2333.334	2230	1.047	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	ug/kg		150	150	125	536	0.234	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	ug/kg		450	450	375	3200	0.118	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	ug/kg		200 J	200	166.667	561	0.298	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	ug/kg		1500	1500	1250	1170	1.069	1
Pyrene	195	858	1520	518	**195**	129-00-0	ug/kg		2300	2300	1916.667	1520	1.261	1
												SUM	7.946	17
												Calculated Mean PEC-Qpah		0.468
PAHs Total	1610	12205	22800	3271					12660.9 J	12660.9	10550.75	22800	0.463	1
												Mean PEC-Qpah		0.463
Total Metals:				-						Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg		2200	2200	2200			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg		6.3	6.3	6.3	33	0.191	1
Barium, Total				5810	-	7440-39-3	mg/kg		23	23	23			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg		0.13	0.13	0.13	5	0.026	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg		15	15	15	110	0.137	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg		11 B	11	11	150	0.074	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg		7.9	7.9	7.9	130	0.061	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg		0.014 J	0.014	0.014	1.1	0.013	1
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg		8.5	8.5	8.5	49	0.174	1
Selenium, Total				0.147	-	7782-49-2	mg/kg		0.058 J	0.058	0.058			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg		0.031 J	0.031	0.031	2.2	0.015	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg		30	30	30	460	0.066	1
Chromium(VI)				1	-	18540-29-9	mg/kg		2.4 U					
												SUM	0.757	9
												Mean PEC-Qmetals		0.085
Miscellaneous Parameters:				110										
Cyanide, Free				-	**0.1**	57-12-5	mg/kg		NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg		0.14 U					
Fractional Organic Carbon					-	FOC	%		1.07					
Percent moisture				0.87	-	MOIST	%		NA					
Percent Solids				-	-	SOLID	%		72					
Percent Solids				-	-	Solids	%		72					
Total Organic Carbon				-	-	TOC	%		1.2					

Mean PEC-Q overall (PAH Calculated)	0.277
Mean PEC-Q overall	0.274

Note 1: 1/2 reporting limit used for non-detect samples.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Sediment Sampling Location O2

							Location	SD-O2					
							Field ID:	O-09-SD-2A 0911425-08					
							Date Sampled:	40136					
							Data Type	Original					
	Consensed-Based Sediment Quality						Material Type	Sediment					
							Sample Event	2009	TOC = 2.2				
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL	Depth (inches):		0 - 15	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	ug/kg	19 J	19	8.637	201	0.043	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	ug/kg	160 J	160	72.728	89	0.818	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	ug/kg	240 U	120	54.546	128	0.427	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	ug/kg	290*	290	131.819	845	0.156	1
Benz(a)anthracene	108	579	1050	303	**108**	56-55-3	ug/kg	770	770	350	1050	0.334	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	ug/kg	630	630	286.364	1450	0.198	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	ug/kg	860	860	390.91	13400	0.03	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	ug/kg	370 J	370	168.182	3200	0.053	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	ug/kg	360	360	163.637	13400	0.013	1
Chrysene	166	728	1290	350	**166**	218-01-9	ug/kg	780	780	354.546	1290	0.275	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	ug/kg	470 U	235	106.819	135	0.792	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	ug/kg	2500	2500	1136.364	2230	0.51	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	ug/kg	190 J	190	86.364	536	0.162	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	ug/kg	410 J	410	186.364	3200	0.059	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	ug/kg	330 U	165	75	561	0.134	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	ug/kg	2000	2000	909.091	1170	0.778	1
Pyrene	195	858	1520	518	**195**	129-00-0	ug/kg	2000	2000	909.091	1520	0.599	1
											SUM	5.381	17
											Calculated Mean PEC-Qpah		0.317
PAHs Total	1610	12205	22800	3271				11339 J	11859	5390.4545	22800	0.237	1
											Mean PEC-Qpah		0.237
Total Metals:				-					Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	2500	2500	2500			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	4.6	4.6	4.6	33	0.14	1
Barium, Total				5810	-	7440-39-3	mg/kg	27	27	27			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.086	0.086	0.086	5	0.018	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	8.8	8.8	8.8	110	0.08	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	5.7 B	5.7	5.7	150	0.038	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	9.7	9.7	9.7	130	0.075	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.050 U	0.025	Note 2			
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	6.0	6	6	49	0.123	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.14	0.14	0.14			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.033 J	0.033	0.033	2.2	0.015	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	20	20	20	460	0.044	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.36 J					
											SUM	0.533	8
											Mean PEC-Qmetals		0.067
Miscellaneous Parameters:				110									
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.14 U					
Fractional Organic Carbon					-	FOC	%	1.81					
Percent moisture				0.87	-	MOIST	%	NA					
Percent Solids				-	-	SOLID	%	71					
Percent Solids				-	-	Solids	%	71					
Total Organic Carbon				-	-	TOC	%	2.2					

Mean PEC-Q overall (PAH Calculated)	0.192
Mean PEC-Q overall	0.152

Mean PEC Quotient Calculations

Note 1: 1/2 reporting limit used for non-detect samples.

Note 2: Metals with very low detection limits were not used in the calculations in accordabce with the WDNR Guidance if not detected.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

Sediment Sampling Location P3

							Location	SD-P3					
							Field ID:	P-09-SD-3A 0911425-05					
							Date Sampled:	40136					
							Data Type	Original					
	Sediment Quality Guidelines						Material Type	Sediment					
							Sample Event	2009	TOC = 3.5				
	TEC	MEC	PEC	Site Specific Background	R5 RCRA ESL		Depth (inches):	0 - 10	Concentrations (Note 1)	@1% TOC	PEC	PEC-Q	n
Volatile Organic Compounds													
2-Methylnaphthalene	20.2	111	201	-	**20.2**	91-57-6	ug/kg	39 U	19.5	5.572	201	0.028	1
Acenaphthene	6.7	48	89	-	**6.71**	83-32-9	ug/kg	39 U	19.5	5.572	89	0.063	1
Acenaphthylene	5.9	67	128	-	**5.87**	208-96-8	ug/kg	39 U	19.5	5.572	128	0.044	1
Anthracene	57.2	451	845	-	**57.2**	120-12-7	ug/kg	39 U	19.5	5.572	845	0.007	1
Benzo(a)anthracene	108	579	1050	303	**108**	56-55-3	ug/kg	8.5 J	8.5	2.429	1050	0.003	1
Benzo(a)pyrene	150	800	1450	332	**150**	50-32-8	ug/kg	9.3 J	9.3	2.658	1450	0.002	1
Benzo(b)fluoranthene	240	6820	13400	307	-	205-99-2	ug/kg	9.3 J	9.3	2.658	13400	0.001	1
Benzo(g,h,i)perylene	170	1685	3200	160	**170**	191-24-2	ug/kg	3.1 J	3.1	0.886	3200	0.001	1
Benzo(k)fluoranthene	240	6820	13400	270	**240**	207-08-9	ug/kg	12 J	12	3.429	13400	0.001	1
Chrysene	166	728	1290	350	**166**	218-01-9	ug/kg	11 J	11	3.143	1290	0.003	1
Dibenz(a,h)anthracene	33	84	135		**33**	53-70-3	ug/kg	77 U	38.5	11	135	0.082	1
Fluoranthene	423	1327	2230	631	**423**	206-44-0	ug/kg	17 J	17	4.858	2230	0.003	1
Fluorene	77.4	307	536	-	**77.4**	86-73-7	ug/kg	39 U	19.5	5.572	536	0.011	1
Indeno(1,2,3-cd)pyrene	200	1700	3200	160	**200**	193-39-5	ug/kg	77 U	38.5	11	3200	0.004	1
Naphthalene	176	369	561	78.7	**176**	91-20-3	ug/kg	580 U	290	82.858	561	0.148	1
Phenanthrene	204	687	1170	240	**204**	85-01-8	ug/kg	5.4 J	5.4	1.543	1170	0.002	1
Pyrene	195	858	1520	518	**195**	129-00-0	ug/kg	16 J	16	4.572	1520	0.004	1
											SUM	0.407	17
											Calculated Mean PEC-Qpah		0.024
PAHs Total	1610	12205	22800	3271				91.6 J	809.6	231.31429	22800	0.011	1
											Mean PEC-Qpah		0.011
Total Metals:				-					Concentrations (Note 1)	Bulk Value Used	PEC	PEC-Q	n
Aluminum, Total				-	-	7429-90-5	mg/kg	3400	3400	3400			
Arsenic, Total	9.8	21.4	33		**9.79**	7440-38-2	mg/kg	170	170	170	33	5.152	1
Barium, Total				5810	-	7440-39-3	mg/kg	38	38	38			
Cadmium, Total	0.99	3	5	36.6	-	7440-43-9	mg/kg	0.13	0.13	0.13	5	0.026	1
Chromium, Total	43	76.5	110	163	**43.4**	7440-47-3	mg/kg	8.0	8	8	110	0.073	1
Copper, Total	32	91	150	1.85	**31.6**	7440-50-8	mg/kg	5.0 B	5	5	150	0.034	1
Lead, Total	36	83	130	15.4	**35.8**	7439-92-1	mg/kg	4.3	4.3	4.3	130	0.034	1
Mercury, Total	0.18	0.64	1.1	25.9	-	7439-97-6	mg/kg	0.046 U	0.023	Note 2			
Nickel, Total	23	36	49	21.6	**22.7**	7440-02-0	mg/kg	7.1	7.1	7.1	49	0.145	1
Selenium, Total				0.147	-	7782-49-2	mg/kg	0.26	0.26	0.26			
Silver, Total	1.6	1.9	2.2	15.5	-	7440-22-4	mg/kg	0.060	0.06	0.06	2.2	0.028	1
Zinc, Total	120	290	460	2.32	**121**	7440-66-6	mg/kg	23	23	23	460	0.05	1
Chromium(VI)				1	-	18540-29-9	mg/kg	0.53 J					
											SUM	5.542	8
											Mean PEC-Qmetals		0.693
Miscellaneous Parameters:				110									
Cyanide, Free				-	**0.1**	57-12-5	mg/kg	NA					
Cyanide, Total					**0.1**	57-12-5	mg/kg	0.23 U					
Fractional Organic Carbon					-	FOC	%	5.52					
Percent moisture				0.87	-	MOIST	%	NA					
Percent Solids				-	-	SOLID	%	43					
Percent Solids				-	-	Solids	%	43					
Total Organic Carbon				-	-	TOC	%	3.5					

Mean PEC Quotient Calculations

Mean PEC-Q overall (PAH Calculated)	0.359
Mean PEC-Q overall	0.352

Note 1: 1/2 reporting limit used for non-detect samples.

Note 2: Metals with very low detection limits were not used in the calculations in accordabce with the WDNR Guidance if not detected.

Notes:

NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
* - Indicates that the exceeded value is below the Site Specific Background Value.
Values that are Bold and Underlined Exceed the Op. Memo 4 criteria.
Values that are Highlighed indicate Remedial Objective Exceedance.

PAH used in Total
Exceeds TEC <= MEC
Exceeds MEC <= PEC
Exceeds PEC

CONFERENCE CALL MINUTES

Date: 22 July 2011, 9:30 AM Central

Subject: Follow-up on CTI's 20 May 2011 Mean PEC calculations and USEPA review of overbank data
Sediment Remedial Design Plan
Former Stanley Tools Site

Participants: J. Thomas, USEPA
D. Mazer, USEPA
M. Stoelton, Johnson Controls, Inc.
A. Lonergan, CTI
J. Dickson, CTI

MINUTES

1. J. Thomas provided an introduction to the call
    a. USEPA revisions to the USEPA's April 26, 2011 are nearly complete. Re-issuing of the letter is contingent upon final determination of the overbank questions regarding the need for remediation.
2. D. Mazur summarized his review/comments on the overbank data
    a. Discussed overbank data used in the area of the 2003 soil removal action (all over bank data east of the river and south of the drainage ditch).
    b. D. Mazur forwarded an email with a draft form of his comments.
    c. CTI stated that the majority of the data shown on the table from the removal area had subsequently been cover with clean fill ranging in thickness from 1 to approx. 8 feet, but that some areas to the north (near the drainage ditch) may not have been covered.
        i. CTI will:
            1. Verify that language in the Design Plan accurately explains how soil confirmation samples from the soil excavation area were used as overbank data;
            2. Provide a map showing which samples were cleanup confirmation samples subsequently covered by clean fill; and
            3. Evaluate data from locations covered with clean fill differently for locations where clean fill was not placed.
    d. Aluminum cleanup criterion presented in the Nov 2010 Design Plan Addendum (32 mg/kg) should be removed and replaced with a pH ≥ 5.5 criterion.
    e. Use of the new Aluminum criterion only applies in areas not covered by clean fill. Areas covered with clean fill do not need to be considered in the overbank evaluation.
        i. CTI will:
            1. Determine whether or not soil pH data is available;
            2. Collect additional soil samples for pH analysis if no pH data is available; and
            3. Communicate with USEPA regarding the status of obtaining pH data.

f. The low molecular weight PAH criterion needs to be revised from 100,000 µg/kg to 29,000 µg/kg to be protection of invertebrates. This criteria will need to be updated on the overbank evaluation tables.
g. Application of sediment criteria to overbank soils was discussed.
h. D. Mazur indicated that use of the most-restrictive Eco SSL was appropriate unless the soil at the over bank locations was continuously saturated.
    i. CTI will:
        1. Discuss the soil saturation level with its subcontractor (URS) to determine if soil moisture observations were recorded during the August 2010 habitat survey.
        2. Communicate with USEPA regarding the status of soil moisture observations.
i. Avian Eco SSLs used in Nov 2010 Design Plan Addendum (based on invertebrate ingestion by birds) may be too conservative for the overbank habitat.
    i. CTI will evaluate the Eco ESLs used and propose alternate criteria.

3. USEPA will issue a letter presenting D. Mazur's comments.
4. Remediation of overbank areas, if warranted, was discussed. CTI asked whether placing a lift of clean fill as an exposure barrier in overbank areas would be effective. USEPA indicated that placement of an exposure barrier in overbank areas would likely be acceptable.
5. USEPA is not ready to make a final determination on whether or not remediation of overbank areas is needed.
    a. This determination will be made after D. Mazur's comments are addressed and the revised evaluation overbank data is submitted.
6. Based on the 20 May 2011 Mean PEC Quotient calculations, USEPA concurs that remediation of in-channel sediments at Transect N, O, and P is not required.
    a. USEPA will document this in their upcoming letter.
7. Following resolution of outstanding overbank issues and planned letters, Johnson Controls will issue a revised Design Plan Addendum (or similar) to memorialize all agreements and modifications to the original Design Plan.
8. CTI stated that as soon as outstanding overbank issues are resolved, work will begin to obtain necessary permits for the sediment remediation effort.
    a. Unless schedule problems are encountered during permitting, the dredging field effort should be completed during the 2012 field season.
9. CTI will issue conference call notes.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

December 5, 2011 LU-9J

Mr. Michael L. Stoelton
Johnson Controls, Inc.
Automotive Experience
49200 Halyard Drive
Plymouth, Michigan 48170

RE: Sediment Remedial Design Plan and Addendum to Sediment Remedial Design Plan
Former Stanley Tools Work Site, 425 Frank Street, Fowlerville, Michigan (MID 099 124 299),
Revisions to EPA Letter of April 26, 2011

Dear Mr. Stoelton:

The United States Environmental Protection Agency has completed its review of the documentation submitted by Johnson Controls, Inc. (JCI), to EPA, in email correspondences dated May 20, 2011 and July 22, 2011. This information was submitted subsequent to our conference call meetings held on May 17, 2011 and July 22, 2011 respectively, concerning our conditional approval of the JCI Sediment Remedial Design Plan and Addendum to Sediment Remedial Design Plan Documents. These documents were submitted to EPA in January 2010, and November 2010, respectively. Based upon this supplemental data, EPA still concurs with the selection of Option 2 as the preferred sediment removal alternative for contaminated sediments of the Red Cedar River. According to the Design Plan, Option 2 will remove an estimated 1,019 cubic yards of contaminated sediment. Sediments will be excavated in accordance with EPA specified remedial objectives, R5 RCRA Ecological Screening Levels and where appropriate, Consensus Based Sediment Quality Guidelines (CBSQG) Probable Effect Concentrations (PEC).

This letter rescinds selected statements from the USEPA's April 26, 2011 letter.

a. The additional areas previously identified as, "hotspot areas" (on page 1 in the April 26, 2011 letter) located along the stretch of river beginning from transect H northward to transect L ***do not*** have to be included in the design plan as target removal areas because analytical results are below the Remedial Objectives (RO) listed in USEPA's letter dated June 19, 2009. Additionally, our Ecologist evaluated location I3 (0-12 inches) for metal toxicity using the mean PEC quotient calculation and obtained a mean PEC-Q for metals of 0.424 which is also less than 0.5 and subsequently predicted to be non toxic.

b. EPA reference to solid waste management units (SWMU) units north of Grand River Avenue (on page 2 in the April 26, 2011 letter) in reference to transects N, O and P is

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rescinded based on a map of solid waste management units (SWMUs) provided by JCI that superimposed sediment sampling locations and SWMUs.

c. In the November 2010 Addendum to the Design Plan, JCI concluded that impacts north of Grand River Avenue were (a) not attributable to the site and (b) based on the different contaminant signature observed in this area, are likely attributable to storm water runoff from the Grand River Avenue transportation corridor. Following discussion of the locations north of Grand River Avenue during the May 17, 2011 conference call and as suggested by EPA, mean PEC quotients were calculated for locations N3, O2 and P3 by JCI and reviewed by EPA.

    1. EPA reference to needed sediment remediation at locations N3, O2 and P3 (on pages 1and 2 in the April 26, 2011 letter) is rescinded because the mean PEC quotients were less than 0.5 at each location and are therefore predicted to be non toxic.

During the May 17, 2011 conference call it was agreed that the M1 location would be included in the dredging program because of arsenic concentrations at 44 parts per million (ppm). It was also agreed that the planned excavation at the L transect would be extended to include the M1 area.

The Addendum to Sediment Remedial Design Plan (November 2010) submitted by JCI concluded that remediation of the overbanks at the site was not required. In response to the EPA letter dated April 26, 2011, JCI requested a determination be made regarding remediation of the overbanks. This request was discussed during the May 17, 2011 conference call and a variety of further communication and analyses of the overbanks followed. With respect to the overbank sampling data, EPA has concluded the following:

a) Exposure can be modified for the screening ecological risk assessment (SERA) to exclude birds and mammals that consume earthworms.

    Since the water table is at or close to the soil surface (within six inches), it's reasonable to conclude these soils are unlikely to support habitat for earthworms which eliminates the exposure (food web) pathway to birds and mammals (i.e., robin and shrew) that consume soil invertebrates (earthworms). By eliminating the earthworm exposure pathway, a less conservative soil screening benchmark based on an avian herbivore (dove) can be used for both copper (76 mg/kg) and zinc (950 mg/kg). Applying the revised copper and zinc benchmarks against the soil data in Table 1 - Overbank Soil 2003-2009, (November 10, 2010, Addendum to Sediment Remedial Design Plan), shows copper is only exceeded at 3 sampling locations (A, E & F) and zinc is eliminated as a Constituent Of Potential Ecological Concern (COPEC). When a screening benchmark (e.g., copper), is exceeded, a Baseline Ecological Risk Assessment (BERA) should be considered.

b) A food web ingestion model (abbreviated BERA) was evaluated by EPA Region 5 using a sensitive receptor and a low dose not expected to result in chronic adverse effects.

Since only one contaminant exceeded the soil screening benchmark for one ecological receptor, an abbreviated BERA will be considered. This BERA evaluated exposure (food web) to a sensitive receptor (e.g., dove) based on a lowest adverse effect level (LOAEL) toxicity reference value (TRV). This LOAEL TRV will serve as an upper bound clean-up criteria. An upper bound clean-up criteria for copper in soil protective of a dove is estimated at 535 mg/kg using the equations from the Eco-SSL Guidance where a median food ingestion rate is 0.137 g/g-day, incidental soil ingestion rate (median) is 0.061 and the avian LOAEL TRV is 4.68 mg/kg-day. Use of this upper bound clean-up criteria of 535 mg/kg eliminates the 3 sampling locations (A @ 86ppm, E @ 100ppm & F @ 150ppm) noted above for copper.

c) Cleanup below background levels not required, and wetland soil pH not expected to be lower than 5.5.

Since EPA will not require a cleanup below background levels (6900 mg/kg for aluminum in soil), this will eliminate all but 3 sampling locations (E @ 9500ppm, F @ 11000ppm & K @ 7200ppm) for aluminum. The Eco-SSL soil screening benchmark for aluminum is a pH of 5.5. A study by Gambrell 1994 (J. Environ. Qual. 23: 883-891) reports the pH of natural wetland soils generally ranges from around 6.5 to 7.5 with a few exceptions. In low pH soils, many aluminum compounds react with available phosphorus and form new compounds that can be stable in soils. Also the crystalline lattice of clay minerals, bind metals which then become unavailable (see University of Florida IFAS Extension Publication #SL 297 available at http://edis.ifas.ufl.edu/ss510). Based on the above information, aluminum is not expected to be bio-available in these overbank (wetland) soils and EPA recommends aluminum be eliminated as a COPEC. This is because collection of new soil pH data, to be collected by JCI, will likely support the SERA, but will not confirm if aluminum is unstable and in a toxic form.

d) Based on the above consideration of overbank soil sampling data, EPA concludes that remediation of the overbanks is not required. EPA recommends the above information be presented in an addendum to the ecological risk assessment report.

e) EPA recommends that JCI submit a revised Addendum to the Design Plan.

JCI and or its Consultant will modify the Design Plan Documents to include: 1) verification that language in the Design Plan accurately explains how soil confirmation samples from the soil excavation area were used as overbank data; 2) provide a map showing which samples from the soil excavation area were used as overbank data; and 3) evaluate data from locations covered with clean fill differently for locations where clean fill was not placed. Johnson Controls will issue a revised Design Plan Addendum (or similar Document) to memorialize all agreements and modifications, including sediment remediation at location M1, to the original Design Plan.

EPA is expecting that JCI will begin permitting for sediment remediation following submission and approval of the above referenced revised Design Plan Addendum and Addendum to the Baseline Ecological Risk Assessment. As outlined in the proposed schedule of the January 2010 Sediment Remedial Design Plan, it is EPA's goal to have permitting for the corrective measures begin no later than the Spring 2012. In addition, EPA is also requesting that JCI submit a revised schedule for sediment removal listing major milestones to be included in the modified design Plan Document. Both Documents are to be submitted within forty five days from the date of this letter.

Upon completion the sediment excavation, JCI is required in accordance with the December 2002, 3008(h) Administrative Order on Consent, to complete a Final Remedy Construction Complete Report within sixty days after sediment remediation has been completed.

EPA is looking forward to your continued cooperation. Please feel free to contact me at your discretion.

Sincerely,

Ian Thomas
Project Manager

cc: Jennifer Bolger, Gonzales, Saggio and Harlan LLP (electronic copy)
Andrew Lonergan, CTI and Associates (electronic copy)
Dave Slayton, MDNRE (electronic copy)
Tom Williams, ORC (electronic copy)
Dan Mazur, LCD (electronic copy

STATE OF MICHIGAN

DEPARTMENT OF ENVIRONMENTAL QUALITY

LANSING

RICK SNYDER
GOVERNOR

DAN WYANT
DIRECTOR

March 8, 2012

Mr. Juan Thomas
Project Manager
U.S. Environmental Protection Agency, Region 5
Land and Chemicals Division
77 West Jackson Boulevard LU-9J
Chicago, Illinois 60604-3590

Subject: Sediment Remedial Design Plan and Baseline Environmental Risk Assessment (BERA); Johnson Controls, Inc., Formerly Stanley Tools Work Site, Fowlerville, Michigan; MID 099 124 299

Dear Mr. Thomas:

Thank you for the opportunity to participate in the February 2, 2012 conference call between yourself and Mr. Dan Mazur of the Region 5 staff and representatives of Johnson Controls, Inc. and CTI and Associates, Inc., who met with me for the call, concerning the Resource Conservation and Recovery Act of 1976 corrective action currently being conducted at the subject facility.

Based on the printed material provided as background for the conference call, the review of documents contained in the facility file in our office, and the subject matter covered in the conference call, the Michigan Department of Environmental Quality (MDEQ) is satisfied that corrective action at the facility is proceeding consistently with the requirements of Part 111, Hazardous Waste, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and with the conditions of the November 2, 2000, Memorandum of Understanding between the MDEQ and Region 5. In particular, we support the proposed removal of sediments from the Red Cedar River to meet remedial objectives and agree that sediment contamination north of the Grand River Avenue Bridge appears to have been caused by a source other than the facility.

Regarding the U.S. Environmental Protection Agency (U.S. EPA) letter dated December 5, 2011, to Johnson Controls, Inc., the MDEQ concurs with the assessments and conclusions. In addition, based on the February 2, 2012 discussions and follow-up correspondence, the MDEQ understands that the BERA Addendum will address comments that MDEQ has presented in the emails from David Slayton dated February 6, February 13 and February 16, 2012.

Should you require further information, please contact me by telephone; at slaytond@michigan.gov; or MDEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Virginia L Hamel (for D. Slayton)

David Slayton, Acting Chief
Permits and Corrective Action Unit
Hazardous Waste Section
Resource Management Division
517-373-8012

cc: Mr. Michael Stoelton, Johnson Controls, Inc.
Mr. Andrew Lonergon, CTI and Associates, Inc.
Mr. Daniel Mazur, U.S. EPA Region 5
Corrective Action File

Meeting Minutes: *Minutes from the call are presented in blue, italics type. The list of discussion items for the meeting are presented in black text and not italicized.*
Meeting Date: *22 March 2012, 10:30 AM Central*
Attendees: *J. Thomas and D. Mazur (USEPA), M. Stoelton (JCI), J. Dickson and D. Lonergan (CTI)*
Minutes Date *28 March 2012*

Former Stanley Tools – discussion items for USEPA call
Date: 6 March 2012

Juan,
Since our meeting in February with you, Dan Mazur, and MDEQ representatives, CTI has continued to work on the BERA Addendum. We've updated all of the BERA tables (sent in my email from 2 March 2012). The items below are a list of topics we would like to discuss with USEPA before the BERA Addendum is issues as a draft.

IN-CHANNEL

- Site Specific Background. Per June 19, 2009 letter data used for evaluation was limited to data collected in 2003 and later. Development of site-specific background includes pre-2003 samples.
  Discussion: It was agreed that the pre-2003 samples will remain in the background data set.

- Acetone, and MEK, Benz(a)anthracene, Benzo(a)pyrene , Chrysene, Pyrene, Fluoranthene, have values above R5 RCRA ESL, but below site specific background
  Discussion: During the 2 February 2012 meeting with MDEQ, CTI stated that sediment background was not used to screen out contaminants. This statement was incorrect and was clarified for the compounds listed above. It was agreed that Mean PEC quotients would be calculated for areas that are outside the removal area south of Grand River Avenue Bridge.

- 1,2,4-Trimethylbenzene, Chloromethane, Aluminum Total, Barium Total, Selenium Total – Do not have a RO, R5 RCRA Sediment ESL, TEC/MEC/PEC. The only criteria available for these compounds are the site-specific background.
  Discussion: During the 2 February 2012 meeting with MDEQ, CTI stated that sediment background was not used to screen out contaminants. This statement was incorrect and was clarified for the compounds listed above. It was agreed that screening against background was appropriate for these compounds.

BANK

- Prior to the November 10, 2010 Addendum to Sediment Remedial Design Plan the USEPA requested that bank and overbank samples be excluded from in-channel sediment removal considerations. Bank samples were also excluded from the terrestrial screening for overbanks.
  - Confirm: Banks should be evaluated as sediment

  Discussion: The group re-visited discussions held during the April 2010 meeting in Chicago regarding bank samples – that they were not to be considered as "overbank samples." It was agreed that the bank samples would be treated as sediment because the samples were collected on the channel's banks and are routinely submerged (without the channel leaving its banks).
  Action item: CTI to send drawings showing all bank sample locations. Drawings (Figures 5-8 excerpted from the 2010 Design Plan) were emailed on 23 March 2012.

- (Table 5) The bank at transect "L" exceeds the RO for Chromium and Copper. Transect "L" is not currently planned for removal.
  - Discuss use the Mean PEC Quotient on banks

- (Table 5): Bank – Transect "LD" east bank had RO exceedences for chromium copper, and nickel. Transect "LD" is slated for in-channel sediment removal.
    - Discuss use the Mean PEC Quotient on banks

    Discussion: The group discussed bank exceedences in general and the use of Mean PEC quotients for bank locations. It was noted that these locations are at, or adjacent to, transect slated for dredging.
    Action item: The USEPA will further consider the issue after the meeting and discuss the issue with other USEPA representatives.
    Action item: Johnson Controls will also consider the issue after the meeting, and reply to USEPA via. email with a preferred means of addressing bank RO exceedences south of the Grand River Avenue Bridge. Johnson Controls replied via email on 22 Mar 2012 that RO exceedences in banks south of the Grand River Avenue Bridge will be treated the same way as in-channel sediment exceedences.

- (Table 5) Banks at transects N and O had RO exceedences for chromium, copper, and nickel. N and O are located north of Grand River Avenue and have additional source from road/municipal runoff.
    - Discuss use the Mean PEC Quotient on banks

    Discussion: The group discussed bank exceedences for transect N, O, and P located north of the Grand River Avenue Bridge. It was that Mean PEC quotients would be prepared for bank samples north of bridge and included in the BERA Addendum.

OVERBANK

- During discussions in 2011 with regarding terrestrial screening of overbank sampling data, USEPA stated that locations covered with clean fill (during 2003 soil remediation) did not need to be considered during screening.

- (Table 9 & Table 11) treatment of covered soils in SWAC and Average concentrations
    - "All Data Used" – Includes all sampling points covered with clean fill. All data that is a hit is evaluated as such, all non-detect data is evaluated as ½ MDL (5 µg/kg).
    - "Covered Data ND" – Includes all sampling points covered with clean fill. All results for covered locations are treated as non-detect with value entered as ½ MDL.
    - "Covered Data Removed" – Eliminates all sampling points covered with clean fill from the SWAC and Average concentrations.

    Discussion: The group discussed treatment of data from overbank locations on the site proper (where the locations were subsequently covered with clean fill during the 2003 CA). Tables 9 and 11 from the 2 Mar 2012 email were a discussed. It was agreed that covered locations on the site proper should be removed completely from the overbank data set and that SWAC values for overbanks would be used.
    Action item: CTI will email a written summary of the SWAC overbank calculations and drawings showing overbank SWAC polygons for the site with the covered locations removed. Drawings and a written summary were emailed on 23 March 2012.

- (Table 7-Table 9) Criteria for PCB's – Currently R5 RCRA Soil ESL 0.332 µg/kg
    - All hits are "J" values.
    - For non-detects ½ MDL (5 µg/kg) is over R5 RCRA Soil ESL.
    - Other ecological screening criteria from http://rais.ornl.gov/tools/eco_search.php#51
        - Dutch Intervention Soil Screening Benchmark – 1 mg/kg 1000 µg/kg
        - Dutch Target Soil Screening Benchmark – .02 mg/kg 20 µg/kg
        - EPA R6 Plants Surface Soil Screening Benchmark – 40 mg/kg 40000 µg/kg
        - ORNL Plants Screening Benchmark – 40 mg/kg 40,000 µg/kg
        - SO EPA R4 Soil Screening Benchmark – .02 mg/kg 20 µg/kg
        - SO EPA R5 ESL Soil Screening Benchmark – .000332 mg/kg 0.332 µg/kg
        - R9 PRG residential soil
            1. 1260 220 µg/kg and

2. 1248 220 µg/kg

- R9 PRG – protection of ground SSL
  1. 1260 24 µg/kg and
  2. 1248 5.2 µg/kg

Discussion: It was agreed that Region 5's upper bound clean up number of 600 µg/kg would be used in the BERA Addendum to evaluate locations that exceed the Region 5 RCRA Soil ESL value of 0.332 µg/kg.

- Per the EPA letter issued December 5, 2011, states that use of the saturated soil Eco SSL is appropriate for Copper and Zinc.
  - Confirm that a saturated soil Eco SSL is appropriate for chromium and lead
  - Chromium:
    - Most Restrictive Eco SSL (26 mg/kg Avian Insectivore)
    - Saturated Soil Eco-SSL (78 mg/kg Avian Herbivore Dove)
  - Lead:
    - Most Restrictive Eco SSL (11 mg/kg Avian Insectivore)
    - State Wide Default Background Level (21 mg/kg)
    - Saturated Soil Eco-SSL (46 mg/kg Avian Herbivore Dove)

Discussion: It was agreed that application of the saturated soil Eco SSL (Avian herbivore dove) was appropriate for Chromium and Lead.

Meeting Minutes: *Minutes from the call are presented in blue, italics type. The list of discussion items for the meeting are presented in black text and not italicized.*
Meeting Date: *22 March 2012, 10:30 AM Central*
Attendees: *J. Thomas and D. Mazur (USEPA), M. Stoelton (JCI), J. Dickson and D. Lonergan (CTI)*
Minutes Date *28 March 2012, Updated with 19 April 2012 Comments from EPA*

Former Stanley Tools – discussion items for USEPA call
Date: 6 March 2012

Juan,
Since our meeting in February with you, Dan Mazur, and MDEQ representatives, CTI has continued to work on the BERA Addendum. We've updated all of the BERA tables (sent in my email from 2 March 2012). The items below are a list of topics we would like to discuss with USEPA before the BERA Addendum is issues as a draft.

IN-CHANNEL

- Site Specific Background. Per June 19, 2009 letter data used for evaluation was limited to data collected in 2003 and later. Development of site-specific background includes pre-2003 samples.
  Discussion: It was agreed that the pre-2003 samples will remain in the background data set.

- Acetone, and MEK, Benz(a)anthracene, Benzo(a)pyrene , Chrysene, Pyrene, Fluoranthene, have values above R5 RCRA ESL, but below site specific background
  Discussion: During the 2 February 2012 meeting with MDEQ, CTI stated that sediment background was not used to screen out contaminants. This statement was incorrect and was clarified for the compounds listed above. It was agreed that Mean PEC quotients would be calculated for areas that are outside the removal area south of Grand River Avenue Bridge. In addition, language was to be added stating that an analysis of the mean PEC Quotient was done and it was below 0.5 which renders it non-toxic

- 1,2,4-Trimethylbenzene, Chloromethane, Aluminum Total, Barium Total, Selenium Total – Do not have a RO, R5 RCRA Sediment ESL, TEC/MEC/PEC. The only criteria available for these compounds are the site-specific background.
  Discussion: During the 2 February 2012 meeting with MDEQ, CTI stated that sediment background was not used to screen out contaminants. This statement was incorrect and was clarified for the compounds listed above. It was agreed that screening against background was appropriate for these compounds. EPA states that since there are no screening values for the constituents listed, an alternative method of determining it disposition should be determined. However, these constituents are listed in areas to be dredged; no further risk evaluation is needed.

BANK

- Prior to the November 10, 2010 Addendum to Sediment Remedial Design Plan the USEPA requested that bank and overbank samples be excluded from in-channel sediment removal considerations. Bank samples were also excluded from the terrestrial screening for overbanks.
  - Confirm: Banks should be evaluated as sediment

  Discussion: The group re-visited discussions held during the April 2010 meeting in Chicago regarding bank samples – that they were not to be considered as "overbank samples." It was agreed that the bank samples would be treated as sediment because the samples were collected on the channel's banks and are routinely submerged (without the channel leaving its banks).
  Action item: CTI to send drawings showing all bank sample locations. Drawings (Figures 5-8 excerpted from the 2010 Design Plan) were emailed on 23 March 2012.

- (Table 5) The bank at transect "L" exceeds the RO for Chromium and Copper. Transect "L" is not currently planned for removal.
    - Discuss use the Mean PEC Quotient on banks

- (Table 5): Bank – Transect "LD" east bank had RO exceedences for chromium copper, and nickel. Transect "LD" is slated for in-channel sediment removal.
    - Discuss use the Mean PEC Quotient on banks

    Discussion: The group discussed bank exceedences in general and the use of Mean PEC quotients for bank locations. It was noted that these locations are at, or adjacent to, transect slated for dredging.
    Action item: The USEPA will further consider the issue after the meeting and discuss the issue with other USEPA representatives.
    Action item: Johnson Controls will also consider the issue after the meeting, and reply to USEPA via email with a preferred means of addressing bank RO exceedences south of the Grand River Avenue Bridge. Johnson Controls replied via email on 22 Mar 2012 that RO exceedences in banks south of the Grand River Avenue Bridge will be treated the same way as in-channel sediment exceedences.

- (Table 5) Banks at transects N and O had RO exceedences for chromium, copper, and nickel. N and O are located north of Grand River Avenue and have additional source from road/municipal runoff.
    - Discuss use the Mean PEC Quotient on banks

    Discussion: The group discussed bank exceedences for transect N, O, and P located north of the Grand River Avenue Bridge. It was decided that Mean PEC quotients would be prepared for bank samples north of bridge and included in the BERA Addendum.

OVERBANK

- During discussions in 2011 with regarding terrestrial screening of overbank sampling data, USEPA stated that locations covered with clean fill (during 2003 soil remediation) did not need to be considered during screening. Because there was a fair amount of clean fill places on top, we need to know how much clean fill is over the areas of contamination residuals.

- (Table 9 & Table 11) treatment of covered soils in SWAC and Average concentrations
    - "All Data Used" – Includes all sampling points covered with clean fill. All data that is a hit is evaluated as such, all non-detect data is evaluated as ½ MDL (5 µg/kg).
    - "Covered Data ND" – Includes all sampling points covered with clean fill. All results for covered locations are treated as non-detect with value entered as ½ MDL. A minimum depth of cover is to be established; must be at least one foot with two feet being most acceptable.
    - "Covered Data Removed" – Eliminates all sampling points covered with clean fill from the SWAC and Average concentrations.

    Discussion: The group discussed treatment of data from overbank locations on the site proper (where the locations were subsequently covered with clean fill during the 2003 CA). Tables 9 and 11 from the 2 Mar 2012 email were a discussed. It was agreed that covered locations on the site proper should be removed completely from the overbank data set and that SWAC values for overbanks would be used.

    Action item: CTI will email a written summary of the SWAC overbank calculations and drawings showing overbank SWAC polygons for the site with the covered locations removed. Drawings and a written summary were emailed on 23 March 2012.

- (Table 7-Table 9) Criteria for PCB's – Currently R5 RCRA Soil ESL 0.332 µg/kg
    - All hits are "J" values.
    - For non-detects ½ MDL (5 µg/kg) is over R5 RCRA Soil ESL.
    - Other ecological screening criteria from http://rais.ornl.gov/tools/eco_search.php#51
        - Dutch Intervention Soil Screening Benchmark – 1 mg/kg 1000 µg/kg

- Dutch Target Soil Screening Benchmark – .02 mg/kg 20 µg/kg
- EPA R6 Plants Surface Soil Screening Benchmark – 40 mg/kg 40000 µg/kg
- ORNL Plants Screening Benchmark – 40 mg/kg 40,000 µg/kg
- SO EPA R4 Soil Screening Benchmark – .02 mg/kg 20 µg/kg
- SO EPA R5 ESL Soil Screening Benchmark – .000332 mg/kg 0.332 µg/kg
- R9 PRG residential soil
    1. 1260 220 µg/kg and
    2. 1248 220 µg/kg
- R9 PRG – protection of ground SSL
    1. 1260 24 µg/kg and
    2. 1248 5.2 µg/kg

Discussion: It was agreed that Region 5's upper bound clean up number of 600 µg/kg would be used in the BERA Addendum to evaluate locations that exceed the Region 5 RCRA Soil ESL value of 0.332 µg/kg.

- Per the EPA letter issued December 5, 2011, states that use of the saturated soil Eco SSL is appropriate for Copper and Zinc.
    - Confirm that a saturated soil Eco SSL is appropriate for chromium and lead
    - Chromium:
        - Most Restrictive Eco SSL (26 mg/kg Avian Insectivore)
        - Saturated Soil Eco-SSL (78 mg/kg Avian Herbivore Dove)
    - Lead:
        - Most Restrictive Eco SSL (11 mg/kg Avian Insectivore)
        - State Wide Default Background Level (21 mg/kg)
        - Saturated Soil Eco-SSL (46 mg/kg Avian Herbivore Dove)

Discussion: It was agreed ~~that application of the~~ saturated soils are unlikely to support soil invertebrates (e.g., earthworms) and the *Eco SSL (Avian herbivore dove) was appropriate for Chromium and Lead.*

APPENDIX B

APPENDIX B:

BACKGROUND DATA

Table B-1: Background Data Table

Table B-2: Summary Of Facility Specific Background Limits For Sediments

Figure: Location Of Background Sampling Points

TABLE B-1
IN-CHANNEL SEDIMENT BACKGROUND DATA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Location	SDBG1	SDBG1	SDBG2	SDBG2	SDBG3	SDBG3	SDBG4	SDBG4	SDBG5	SDBG5	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2	SE/RC-24-1	SE/RC-25-1
			Field ID:	SDBG1012-041803-01	SDBG11224-041803-01	SDBG21224-041803-01	SDBG2012-041803-01	SDBG3012-042103-01	SDBG31224-042103-01	SDBG4012-042103-01	SDBG41224-042103-01	SDBG5012-042103-01	SDBG51224-042103-01	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2 Dup	SRC-24/136787	SRC-25/136787
			Date Sampled:	4/18/2003	4/18/2003	4/18/2003	4/18/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	9/18/2000	9/18/2000
			Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original									
			Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment									
			Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003									
			Depth (inches):	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 3	6 - 12	0 - 3	6 - 12	0 - 3	6 - 12	6 - 12	0 - 0	0 - 0
	CAS	Site Specific Background																				
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	75-34-3	5.8	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	5.8 J	5.6 U	16 U	6.7 U	8.4 U	9.6 U	8.3 U	NA	NA
1,1-Dichloroethene	75-35-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropylene	563-58-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	87-61-6	-	ug/kg	41 JB	430 U	380 U	340 U	300 U	270 U	320 U	340 U	400 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	-	ug/kg	41 JB	13 JB	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	95-63-6	24	ug/kg	24 JB	16 JB	76 U	11 JB	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	107-06-2	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene	540-59-0	81	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	30	16 U	6.7 U	8.4 U	9.6 U	8.3 U	NA	NA
1,2-Dichloropropane	78-87-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	108-67-8	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	142-28-9	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	594-20-7	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	95-49-8	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	-	ug/kg	1200 U	860 U	760 U	690 U	590 U	540 U	630 U	680 U	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene	99-87-6	23	ug/kg	23 J	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	-	ug/kg	1200 U	860 U	760 U	690 U	590 U	540 U	630 U	680 U	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	67-64-1	761	ug/kg	690 JB	500 JB	440 JB	380 JB	350 JB	290 JB	350 JB	340 JB	450 JB	340 JB	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	107-02-8	-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	5.2 J	330 U	130 U	170 U	190 U	170 U	NA	NA
Benzene	71-43-2	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	108-86-1	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	75-25-2	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	74-83-9	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	75-15-0	-	ug/kg	1200 U	860 U	760 U	690 U	590 U	540 U	630 U	680 U	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	56-23-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	108-90-7	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	75-00-3	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	20 U	11 U	33 U	13 U	17 U	19 U	17 U	NA	NA
Chloroform	67-66-3	22	ug/kg	22 J	17 J	76 U	69 U	12 J	18 J	63 U	18 J	16 J	11 J	10 U	5.6 U	16 U	6.7 U	8.4 U	9.6 U	8.3 U	NA	NA
Chloromethane	74-87-3	49.5	ug/kg	44 J	22 J	23 J	22 J	15 J	32 J	16 J	18 J	22 J	17 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156-59-2	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	10061-01-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	124-48-1	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	74-95-3	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobromomethane	75-27-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene dibromide	106-93-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	-	ug/kg	160 JB	59 JB	760 U	27 JB	590 U	540 U	630 U	680 U	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	78-93-3	517	ug/kg	220 J	160 J	120 J	120 J	96 J	86 J	120 J	110 J	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether	1634-04-4	-	ug/kg	1200 U	860 U	760 U	690 U	590 U	540 U	630 U	680 U	790 U	670 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	75-09-2	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	10 U	2.1 J	16 U	6.7 U	2.9 J	9.6 U	180	NA	NA
n-Butylbenzene	104-51-8	27	ug/kg	45 JB	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	103-65-1	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	78.7	ug/kg	63 JB	21 JB	17 JB	12 JB	8 JB	8 JB	10 JB	170 U	200 U	170 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	-	ug/kg	27 J	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100-42-5	13	ug/kg	13 J	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	98-06-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	108-88-3	3.2	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	3 J	5.6 U	16 U	2.5 J	8.4 U	9.6 U	8.3 U	NA	NA

TABLE B-1
IN-CHANNEL SEDIMENT BACKGROUND DATA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Location	SDBG1	SDBG1	SDBG2	SDBG2	SDBG3	SDBG3	SDBG4	SDBG4	SDBG5	SDBG5	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2	SE/RC-24-1	SE/RC-25-1
			Field ID:	SDBG1012-041803-01	SDBG11224-041803-01	SDBG21224-041803-01	SDBG2012-041803-01	SDBG3012-042103-01	SDBG31224-042103-01	SDBG4012-042103-01	SDBG41224-042103-01	SDBG5012-042103-01	SDBG51224-042103-01	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2 Dup	SRC-24/136787	SRC-25/136787
			Date Sampled:	4/18/2003	4/18/2003	4/18/2003	4/18/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	9/18/2000	9/18/2000
			Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original									
			Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment									
			Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003									
			Depth (inches):	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 3	6 - 12	0 - 3	6 - 12	0 - 3	6 - 12	6 - 12	0 - 0	0 - 0
	CAS	Site Specific Background																				
trans-1,2-Dichloroethylene	156-60-5	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	10061-02-6	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	79-01-6	11	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	9.4 J	11	16 U	6.7 U	8.4 U	9.6 U	8.3 U	NA	NA
Trichlorofluoromethane	75-69-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 U	79 U	67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	-	ug/kg	120 U	86 U	76 U	69 U	59 U	54 U	63 U	68 UJB	79 U	67 U	20 U	11 U	33 U	13 U	17 U	19 U	17 U	NA	NA
Xylene, Meta + Para	Not Applicable	-	ug/kg	240 U	170 U	150 U	140 U	120 U	110 U	130 U	140 U	160 U	130 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, Total			ug/kg																			
		-																				
Semi-Volatile Organic Compounds		-																				
1,2,4-Trichlorobenzene	120-82-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Benzphenanthracene	218-01-9	-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120 J	72 U
1,2-Dichlorobenzene	95-50-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	95-48-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	91-94-1	-	ug/kg	2600 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,4-Methylphenol	108-39-4	-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	101-55-3	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	7005-72-3	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	106-44-5	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	-	ug/kg	2200 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	83-32-9	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	54 U	47 U
Acenaphthylene	208-96-8	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	57 U	49 U
Anthracene	120-12-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	67 J	370 U	540 U	440 U	5600 U	6300 U	550 U	83 U	71 U
Benz(a)anthracene	56-55-3	303	ug/kg	38 J	330 U	330 U	30 J	330 U	330 U	86 J	330 U	120 J	330 U	230 J	370 U	540 U	440 U	5600 U	6300 U	550 U	97 J	57 U
Benzidine	92-87-5	-	ug/kg	6500 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	50-32-8	332	ug/kg	54 J	330 U	330 U	37 J	330 U	330 U	84 J	330 U	110 J	330 U	260 J	370 U	220 J	67 J	5600 U	6300 U	550 U	76 J	66 J
Benzo(b)fluoranthene	205-99-2	307	ug/kg	98 J	330 U	330 U	64 J	330 U	330 U	110 J	330 U	110 J	330 U	260 J	370 U	540 U	87 J	5600 U	6300 U	550 U	75 J	54 J
Benzo(g,h,i)perylene	191-24-2	160	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	35 J	330 U	47 J	330 U	160 J	370 U	540 U	440 U	5600 U	6300 U	550 U	67 U	58 U
Benzo(k)fluoranthene	207-08-9	270	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	69 J	330 U	92 J	330 U	270 J	370 U	540 U	440 U	5600 U	6300 U	550 U	120 U	110 U
Benzoic acid	65-85-0	320	ug/kg	4300 U	150 J	320 J	3300 U	3300 U	3300 U	3300 U	240 J	3300 U	280 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	100-51-6	-	ug/kg	1700 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	111-44-4	-	ug/kg	130 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	108-60-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	110	ug/kg	100 JB	42 JB	31 JB	42 JB	25 JB	330 U	30 JB	32 JB	41 JB	44 JB	110 J	370 U	540 U	440 U	5600 U	6300 U	550 U	NA	NA
Butyl benzyl phthalate	85-68-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	350	ug/kg	56 J	330 U	330 U	42 J	330 U	330 U	110 J	330 U	140 J	330 U	350 J	370 U	540 U	71 J	5600 U	6300 U	550 U	NA	NA
Di-N-Butyl phthalate	84-74-2	220	ug/kg	220 J	180 J	85 J	100 J	330 U	330 U	35 J	40 J	33 J	43 J	660 U	370 U	540 U	440 U	5600 U	6300 U	550 U	NA	NA
Di-N-Octyl phthalate	117-84-0	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	53-70-3	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	81 U	70 U
Dibenzofuran	132-64-9	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	84-66-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	660 U	370 U	540 U	440 U	5600 U	6300 U	550 U	NA	NA
Dimethyl phthalate	131-11-3	-	ug/kg	4300 U	3300 U	3300 U	38 J	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	660 U	370 U	540 U	440 U	5600 U	6300 U	550 U	NA	NA
Fluoranthene	206-44-0	631	ug/kg	130 J	330 U	330 U	97 J	31 J	330 U	260 J	22 J	300 J	330 U	560 J	370 U	72 J	160 J	5600 U	6300 U	550 U	170 J	110 J

TABLE B-1
IN-CHANNEL SEDIMENT BACKGROUND DATA
FORMER STANLEY TOOLS FACILITY (MID 099 124 299)
Fowlerville, MI

			Location	SDBG1	SDBG1	SDBG2	SDBG2	SDBG3	SDBG3	SDBG4	SDBG4	SDBG5	SDBG5	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2	SE/RC-24-1	SE/RC-25-1
			Field ID:	SDBG1012-041803-01	SDBG11224-041803-01	SDBG21224-041803-01	SDBG2012-041803-01	SDBG3012-042103-01	SDBG31224-042103-01	SDBG4012-042103-01	SDBG41224-042103-01	SDBG5012-042103-01	SDBG51224-042103-01	SE/RC-11/1	SE/RC-11/2	SE/RC-12/1	SE/RC-12/2	SE/RC-13/1	SE/RC-13/2	SE/RC-13/2 Dup	SRC-24/136787	SRC-25/136787
			Date Sampled:	4/18/2003	4/18/2003	4/18/2003	4/18/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	1/1/1994	9/18/2000	9/18/2000
			Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original									
			Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment									
			Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003									
			Depth (inches):	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 24	0 - 3	6 - 12	0 - 3	6 - 12	0 - 3	6 - 12	6 - 12	0 - 0	0 - 0
	CAS	Site Specific Background																				
Fluorene	86-73-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	660 U	370 U	540 U	440 U	5600 U	6300 U	550 U	64 U	55 U
Hexachlorobenzene	118-74-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	160	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	32 J	330 U	46 J	330 U	160 J	370 U	540 U	440 U	5600 U	6300 U	550 U	83 U	71 U
Isophorone	78-59-1	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	660 U	370 U	540 U	440 U	5600 U	6300 U	550 U	NA	NA
N-Nitroso-di-N-propylamine	621-64-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	78.7	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	80 U	68 U
Nitrobenzene	98-95-3	-	ug/kg	260 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	59-50-7	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	-	ug/kg	1000 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	240	ug/kg	59 J	330 U	330 U	40 J	330 U	330 U	120 J	330 U	110 J	330 U	240 J	370 U	540 U	120 J	5600 U	6300 U	550 U	65 U	56 U
Phenol	108-95-2	-	ug/kg	430 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	518	ug/kg	100 J	330 U	330 U	73 J	27 J	330 U	200 J	330 U	240 J	330 U	430 J	370 U	67 J	120 J	5600 U	6300 U	550 U	150 J	120 J
PAHs Total		3271																				
Polychlorinated Biphenyls (PCBs):																						
PCB, Total	TPCB		ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	12674-11-2		ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	17 U	15 U
PCB-1221	11104-28-2	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	13 U	11 U
PCB-1232	11141-16-5	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.6 U
PCB-1242	53469-21-9	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	5.2 U	4.4 U
PCB-1248	12672-29-6	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	6.6 U	5.7 U
PCB-1254	11097-69-1	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	7.2 U	6.2 U
PCB-1260	11096-82-5	-	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	NA	NA	NA	NA	NA	28 U	24 U
Total Metals:		-																				
Aluminum, Total	7429-90-5	5810	mg/kg	NA	NA	3710	2400	1830	1340	1780	NA	2970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	7440-38-2	36.6	mg/kg	27	18	9	3.5	6.1	1.2	2.8	11	9.2	7.7	13.3	35.8	13.7	3.7	9.4	12.5	9.9	11.1	4.8
Barium, Total	7440-39-3	163	mg/kg	178	53	51	20	24	6.6	15	19	56	18	87.2	31.1	50.8	21	64.3	73.8	53.9	58.7	38.4
Cadmium, Total	7440-43-9	1.85	mg/kg	1.1	0.4	0.44	0.17	0.25	0.2	0.16	0.26	0.36	0.35	2	1.1	0.82 U	0.67 U	0.84 U	0.96 U	0.83 U	0.52 B	0.26 B
Chromium, Total	7440-47-3	15.4	mg/kg	14	6.8	6.2	4.1	4.6	3.6	3.9	5.7	6.4	4.5	8.2	8.3	8	5	10.5	12.3	6.5	6.7	5.6
Copper, Total	7440-50-8	25.9	mg/kg	16	5.2	6.2	2.7	3.9	3.2	4.4	3.8	9.3	5.1	21.7	10.4	11.9	6.2	16.4	13.9	8.2	NA	NA
Lead, Total	7439-92-1	21.6	mg/kg	17	4.4	14	5	3.2	1.7	3.4	3	10	7.5	15.6	4.7	10.6	4.4	9.1	10	7.4	8.7	11
Mercury, Total	7439-97-6	0.147	mg/kg	0.12	0.082 J	0.058 J	0.047 J	0.016 J	0.015 J	0.03 J	0.054 J	0.055 J	0.037 J	0.2 U	0.11 U	0.16 U	0.13 U	0.17 U	0.19 U	0.17 U	0.038 B	0.032 B
Nickel, Total	7440-02-0	15.5	mg/kg	15	7.3	7	5.3	6.9	6.2	4.3	8.3	6.3	6.5	8	7.5	8.2	5.8	9.4	11.6	8	NA	NA
Selenium, Total	7782-49-2	2.32	mg/kg	1.1	2.4	1	0.28 U	0.37	0.24 U	0.26 U	0.18 J	0.36	0.23 J	1 U	1.1 U	1.3 J	0.43 J	0.84 U	0.96 U	0.36 J	0.92 B	0.61 U
Silver, Total	7440-22-4	1	mg/kg	0.13 J	0.06 J	0.06 J	0.026 J	0.033 J	0.028 J	0.02 J	0.038 J	0.05 J	0.044 J	0.9 J	1.1 U	0.57 J	1.3 U	1 JB	1 JB	1.7 U	0.72 U	0.62 U
Zinc, Total	7440-66-6	110	mg/kg	96	30	39	20	18	12	16	18	34	20	78.5	16.2	43.3	22.5	55.1 B	59.2 B	33.9	NA	NA
Chromium(VI)	18540-29-9	-	mg/kg	60 U	45 U	58 U	15 U	11 U	2 U	2 U	18 U	29 U	14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters:																						
Cyanide, Free	57-12-5	-	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	57-12-5	0.87	mg/kg	0.09 J	0.05 J	0.04 J	0.03 J	0.2 U	0.2 U	0.2 U	0.02 J	0.2 U	0.2 U	1 U	0.56 U	0.82 U	0.67 U	0.84 U	0.96 U	0.83 U	0.87, 1	U, 0.0038 U
Fractional Organic Carbon	FOC	-	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent moisture	MOIST	-	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.1	25.8
Percent Solids	SOLID	-	%	38	56	63	72	79	86	79	78	62	72	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids	Solids	-	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	TOC	-	%	16	9.2	6.5	3.1	1.7	0.2	0.9	1.5	5	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
R5 RCRA ELS- Region 5 USEPA RCRA Ecological Screening Levels for Sediments
Site Specific Background Levels -presented in Table 1 of the Sediment Technical Memorandum located in Appendix A of the Final Corrective Measures Proposal
NA - Indicates that the sample was not analyzed for that parameter.
U - Inidcates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound
PAH used in Total

Table B-2

JCI Fowlerville
Summary of Facility- Specific Background Limits for Sediments

Parameter	n	Distribution	Rationale	Outlier evaluation	Min (mg/Kg)	Max (mg/Kg)	Mean (mg/Kg)	Standard Deviation	Background UTL (mean + 3 std dev) (mg/Kg)	Background UTL (highest value in data set) (mg/Kg)
Metals										
Aluminum, Total	6	Normal	Passed tests for normality and for lognormality	None detected	180	3710	2072	1247	**5810**	NA
Arsenic, Total	19	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	1.2	35.8	10.7	8.63	**36.6**	NA
Barium, Total	19	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	6.6	178	47.3	38.6	**163**	NA
Cadmium, Total	19	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	0.16	2	0.49	0.45	**1.85**	NA
Chromium, Total	19	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	3.6	14	6.88	2.83	**15.4**	NA
Chromium, VI	10	Cannot be determined	All non-detect	NA	NA	NA	NA	NA	NA	NA
Copper, Total	16	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	2.7	21.7	8.77	5.72	**25.9**	NA
Cyanide, Total	19	Cannot be determined	>50% non-detect	NA	0.02	0.87	0.24	0.22	NA	**0.87**
Lead, Total	19	Lognormal	Passed tests for normality and for lognormality	None detected	1.7	17	8.11	4.49	**21.6**	NA
Mercury, Total	19	Normal	Passed tests for normality. Failed tests for lognormality	None detected	0.015	0.12	0.058	0.03	**0.147**	NA
Nickel, Total	16	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	4.3	15	7.73	2.58	**15.5**	NA
Selenium, Total	19	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	0.12	2.4	0.65	0.55	**2.32**	NA
Silver, Total	16	Cannot be determined	Failed tests for normality and for lognormality	NA	0.02	1	0.32	0.39	NA	**1**
Zinc, Total	16	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	12	96	36.1	24.7	**110**	NA

Table B-2

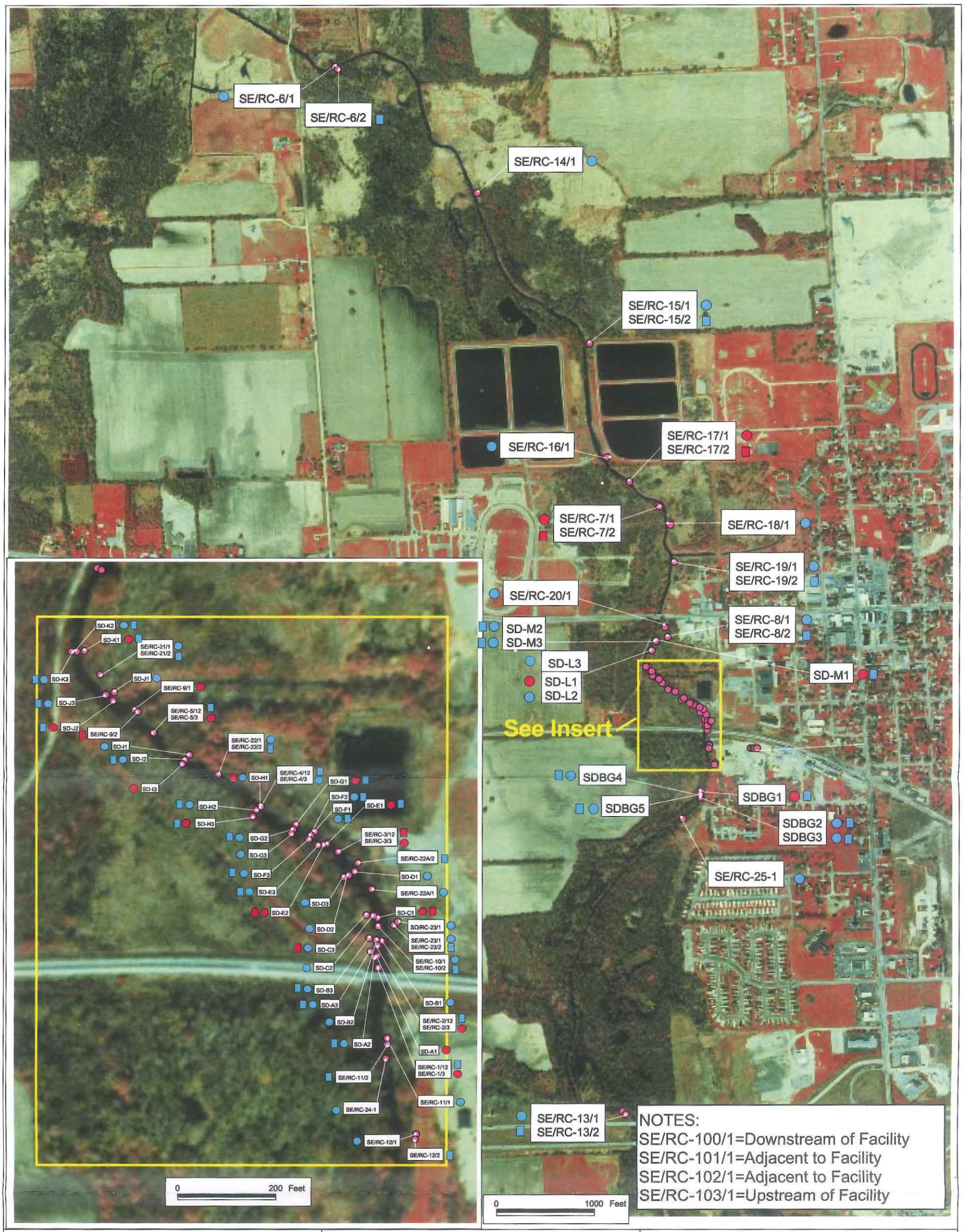
JCI Fowlerville
Summary of Facility- Specific Background Limits for Sediments

Parameter	n	Distribution	Rationale	Outlier evaluation	Min (µg/Kg)	Max (µg/Kg)	Mean (µg/Kg)	Standard Deviation	Background UTL (mean + 3 std dev) (µg/Kg)	Background UTL (highest value in data set) (µg/Kg)
Semivolatiles										
Benzo(a)anthracene	7	Lognormal	Passed tests for normality and for lognormality	None detected	30	230	103	66.6	**303**	NA
Benzo(a)pyrene	10	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	37	110	110.4	73.85	**332**	NA
Benzo(b)fluoranthene	9	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	54	260	114.2	64.3	**307**	NA
Benzo(g.h.i)perylene	19	Cannot be determined	>50% nondetect	NA	35	160	NA	NA	NA	**160**
Benzo(k)fluoranthene	19	Cannot be determined	>50% nondetect	NA	69	270	NA	NA	NA	**270**
Benzoic Acid	10	Cannot be determined	>50% nondetect	NA	150	320	NA	NA	NA	**320**
Bis-(2-ethylhexyl)phthala	15	Cannot be determined	Failed tests for normality and for lognormality	NA	25	110	NA	NA	NA	**110**
Chrysene	19	Cannot be determined	>50% nondetect	NA	42	350	NA	NA	NA	**350**
Dimethylphthalate	19	Cannot be determined	>50% nondetect	NA	38	38	NA	NA	NA	**38**
Di-n-butylphthalate	19	Cannot be determined	>50% nondetect	NA	35	220	NA	NA	NA	**220**
Fluoranthene	12	Normal	Passed tests for normality. Failed tests for lognormality	None detected	22	560	182	149	**631**	NA
Ideno(1,2,3-cd)pyrene	19	Cannot be determined	>50% nondetect	NA	32	160	NA	NA	NA	**160**
Naphthalene	7	Lognormal	Failed tests for normality. Passed tests for lognormality	One outlier detected (63 ug/Kg)	8	63	19.86	19.63	**78.7**	NA
Phenanthrene	10	Cannot be determined	>50% nondetect	NA	40	240	NA	NA	NA	**240**
Pyrene	11	Normal	Passed tests for normality. Failed tests for lognormality	None detected	27	430	120	117	**518**	NA
Volatiles										
1,1-Dichloroethane	16	Cannot be determined	>50% nondetect	NA	5.8	5.8	NA	NA	NA	**5.8**
1,2-Dichloroethene	6	Cannot be determined	>50% nondetect	NA	30	81	NA	NA	NA	**81**
1,2,3-Trichlorobenzene	10	Cannot be determined	>50% nondetect	NA	41	41	NA	NA	NA	**41**

Table B-2

JCI Fowlerville
Summary of Facility- Specific Background Limits for Sediments

Parameter	n	Distribution	Rationale	Outlier evaluation	Min (µg/Kg)	Max (µg/Kg)	Mean (µg/Kg)	Standard Deviation	Background UTL (mean + 3 std dev) (µg/Kg)	Background UTL (highest value in data set) (µg/Kg)
1,2,4-Trichlorobenzene	10	Cannot be determined	>50% nondetect	NA	13	41	NA	NA	NA	**41**
1,2,4-Trimethylbenzene	10	Cannot be determined	>50% nondetect	NA	11	24	NA	NA	NA	**24**
4-Isopropyltoluene	10	Cannot be determined	>50% nondetect	NA	23	23	NA	NA	NA	**23**
Acrolein	6	Cannot be determined	>50% nondetect	NA	5.2	5.2	NA	NA	NA	**5.2**
Acetone	10	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	290	690	413	116	**761**	NA
Chloroform	19	Cannot be determined	>50% nondetect	NA	11	22	NA	NA	NA	**22**
Chloromethane	10	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	15	44	23	9	**49.5**	NA
Hexachlorobutadiene	10	Cannot be determined	>50% nondetect	NA	27	16	NA	NA	NA	**160**
Methyl Ethyl Ketone	10	Lognormal	Failed tests for normality. Passed tests for lognormality	None detected	86	220	186	110	**517**	NA
n-Butylbenzene	10	Cannot be determined	>50% nondetect	NA	45	45	NA	NA	NA	**45**
sec-Butylbenzene	10	Cannot be determined	>50% nondetect	NA	27	27	NA	NA	NA	**27**
Styrene	10	Cannot be determined	>50% nondetect	NA	13	13	NA	NA	NA	**13**
Toluene	16	Cannot be determined	>50% nondetect	NA	2.5	3	NA	NA	NA	**3.2**
Trichloroethene	16	Cannot be determined	>50% nondetect	NA	9.4	11	NA	NA	NA	**11**



NOTES:
SE/RC-100/1=Downstream of Facility
SE/RC-101/1=Adjacent to Facility
SE/RC-102/1=Adjacent to Facility
SE/RC-103/1=Upstream of Facility

WESTON SOLUTIONS

Johnson Controls, Inc.
Fowlerville

DRAWING TITLE:

PEC Quotient Summary

Weston Solutions, Inc.
750 E. Bunker Ct. Ste. 500
Vernon Hills, IL 60061-1450
TEL: 847-918-4000 -- FAX: 847-918-4050

LEGEND:

- > Mean PEC Quotient
- < Mean PEC Quotient
- Surface Sediment Sample
- Subsurface Sediment Sample

WORK ORDER No.:		PROJECT MANAGER.:	
DRAWN BY:	NJK	CHECKED BY:	
DRAWING NAME:		DIRECTORY:	
CONTRACT No.:		DELIVERY No.:	
SCALE:		REPORT DATE:	
DATE:	12-01-03	REVISION No:	FIGURE No.: 1

APPENDIX C

APPENDIX C:

2009 SAMPLING DATA

(ATTACHED CD)

APPENDIX D:

HABITAT ASSESSMENT

Field Assessment Memorandum
Former Johnson Controls Site
Fowlerville, Michigan

Prepared by: Jim Kooser, URS Corporation
Prepared for: Andrew Lonergan, CTI Consultants

Date: 4 November 2010

Introduction

URS was tasked with assessing potential ecological receptors along Red Cedar Creek at the former Johnson Controls (JCI) site in Fowlerville, Michigan. The purpose of the visit was to assess plant communities in and near the site and determine whether potential ecological receptors were present, and to determine whether a comparison to terrestrial criteria was appropriate given the conditions found at the site. Ecological receptors are defined in various ways by state and federal agencies. For this work, we defined them as native plant communities with intact trophic structures including representatives of all trophic levels.

On 26 August, 2010, a risk assessor and an ecologist from URS visited the site. URS staff mapped plant communities and made observations to determine dominant plant species, and the use of the plant communities by terrestrial animals.

The study area lies on the west side of Fowlerville, Michigan. Figure 1 shows the site location.

Methods

URS divided the site into quadrants, separated by West Grand River Avenue and by the Red Cedar River (Figure 1). URS staff walked the quadrants and mapped the plant communities found. Staff made visual estimates of the dominant species in each community. URS staff also recorded any evidence of any wildlife activities in the area.

URS staff arrived on site at 0730 on 26 August 2010. Conditions were clear, sunny, with an initial temperature of approximately 55° Fahrenheit, rising to over 70° F. URS staff completed the site visit at 1230.

Results and Discussion

Figure 2 shows the distribution of plant communities in the study area. Beginning in the northwest corner, there is a large block of combined riparian woods/ emergent wetland adjacent to the stream. Dominant tree species included *Populus deltoides* (eastern cottonwood), *Acer rubrum* (red maple), *Acer saccharinum* (silver maple), *Salix nigra* (black willow) and *Eleagnus angustifolia* (Russian olive). The dominant herbaceous species in this community were

Typha latifolia (common cat tail) and *Phalaris arundinacea* (reed canary grass). All of these plants are commonly found in riparian areas, wooded wetlands and emergent wetlands.

The old field area mapped in the northwest corner (Figure 2) was dominated by *Solidago canadensis* (Canada goldenrod), *Phalaris arundinacea*, *Juncus effusus* (soft rush), *Rumex crispus* (curly dock), *Verbena hastata* (blue vervain), *Poa pratensis* (Kentucky bluegrass), *Verbascum thapsus* (common mullein), *Eupatorium perfoliatum* (boneset) *Dactylis glomerata* (orchard grass), *Eupatorium maculatum* (spotted Joe-pye weed) and *Juncus tenuis* (path rush). Common woody species found here included *Salix lucida* (shining willow), *Populus deltoides*, and *Rubus allegheniensis* (blackberry). All are common species found in old fields, wetlands and wooded areas.

Young upland woods were also mapped in the northwest quadrant. Dominant species here included *Populus deltoides*, *Acer rubrum* (red maple), *Acer saccharinum* (silver maple), Fraxinus *americana* (white ash), *Carya ovata* (shagbark hickory) and *Quercus alba* (white oak).

A variety of birds were seen or heard in the northwest quadrant. These included *Thyrothorus ludovicianus* (Carolina Wren), *Dumetella carolinensis* (Gray Catbird), *Cyanocitta cristata* (Blue Jay), *Sitta carolinensis* (White-breasted Nuthatch), *Cardinalis cardinalis* (Northern Cardinal), *Melospiza melodia* (Song Sparrow), *Picoides pubescens* (Downy Woodpecker), *Poecile atricapilla* (Black-capped Chickadee), *Turdus migratorius* (American Robin), *Zenadia macroura* (Mourning Dove) and *Agelaius phoeniceus* (Red-winged Blackbird). All of these species are common birds often found in suburban environments.

The northeast quadrant had riparian woods/emergent wetland and mowed lawn communities (Figure 2). The riparian woods/emergent wetland area was dominated by most of the same species found in the riparian woods/emergent wetland in the northwest quadrant. This area showed signs of recent logging. *Rosa multiflora* (multiflora rose) was dominant in some of the recently cut areas. Herbaceous species found here but not found in the northwest quadrant included *Typha* x *glauca* (hybrids cat tail) and *Lythrum salicaria* (purple loosestrife).

We observed the same birds in this area as were seen in the northwest quadrant, and added *Ardea herodias* (Great Blue Heron) and *Megaceryle alcyon* (Belted Kingfisher).

In the southwest quadrant we mapped riparian woods, an emergent wetland and a small portion of upland woods (Figure 2). The riparian woods were dominated by *Populus deltoides, Fraxinus pennsylvanica* (green ash), Acer rubrum, and *Rosa multiflora*. Portions of the banks had recently been cleared, sawdust and recently cut stumps were observed. The large emergent wetland was dominated

by *Phalaris arundinacea, Typha latifolia*, *Typha* x *glauca* and *Scirpus polyphyllus* (leafy bulrush).

URS staff observed Ardea *herodias, Megaceryle alcyon Thyrothorus ludovicianus* (Carolina Wren), Dumetella *carolinensis* (Gray Catbird), *Cyanocitta cristata* (Blue Jay), *Sitta carolinensis*, *Cardinalis cardinalis*, *Melospiza melodia* and Picoides *pubescens* in the area. In addition we heard or saw *Rana clamitans melanota* green frog, *Pseudacris crucifer* (Spring peeper), *Rana catesbeiana* bull frog, and *Bufo americanus* (American toads in and near the stream. A variety of aquatic insects, including members of the *Gerridae* (water striders) and *Corixidae* (water boatmen), were observed.

The southeast quadrant was divided into two sections by a ditch that runs east to west, joining the red Cedar Creek (Figure 2). The portion south of the ditch was dominated by old field species. These included those seen in the old field area in the northwest, plus *Agropyron repens* (wheatgrass), *Phleum pratensis* (Timothy) *Asclepius syriaca* (milkweed) and *Solidago rugosa* (rough goldenrod).

The area north of the ditch contains a riparian woods/emergent wetland community, which was generally wetter than the area south of the ditch, and dominated by wetland species including *Typha latifolia, Phalaris arundinacea, Scirpus polyphyllus, Leersia oryzoides* (rice cutgrass), *Juncus torreyi* (Torrey's rush), Cyperus esculentus (nutsedge), *Scirpus cyperinus* (woolgrass) *Echinochloa crusgalli* (barnyard grass) and *Silene regia* (royal catchfly). Wooded areas were dominated by *Salix nigra, Acer saccharinum* and *Cornus amomum* (silky dogwood).

In addition to the wildlife observed in the other areas, we noted track from *Odocoileus virginiana* (white-tailed deer), *Ondatra zibethicus* (muskrat) and *Procyon lotor* (raccoon).

In summary, URS found plant communities that are common in urban and suburban areas. No listed species were found. The communities were in general dominated by commonly found species. A few invasive, non-native species were noted. Wildlife communities were similarly dominated by generalist species common to urban areas.

Note that all trophic levels are represented in the species URS observed. The birds and other wildlife observed represent species that eat plants, insects and other animals. In particular, the Great Blue Herons and belted Kingfishers are generally preying on organisms in the stream, including those that are exposed to sediments in the stream.

CTI staff interviewed on site indicated that Red Cedar Creek floods rather frequently and inundates a wide area around the site. It seems apparent that

flood waters could carry sediment and contaminants to the floodplain areas. Organism in the communities around the Creek could thereby be exposed.

The communities mapped in this study are part of a much larger riparian corridor that extends north and south beyond the study site. Larger riparian corridors often serve as habitat and connecting corridors allowing animals and plant propagules to move rather freely from one area to another. Isolated systems might be thought of as areas where the transfer of contaminants to other systems is less likely. This does not appear to be the case along Red Cedar Creek; the communities mapped at the former JCI site appear to be well connected to other adjacent communities.

In conclusion, it seems apparent that there are intact plant communities on and adjacent to the former JCI site. These communities are dominated by common plants and animals, mostly populated by native species but with some non-native invasives present. The communities are not of nature preserve quality, but still represent natural communities found in urban and suburban areas.

The wildlife noted in these communities included a variety of species and trophic guilds, from producers through grazers and carnivores. Given this structure, it is likely that complete ecological pathways do exist on the site.

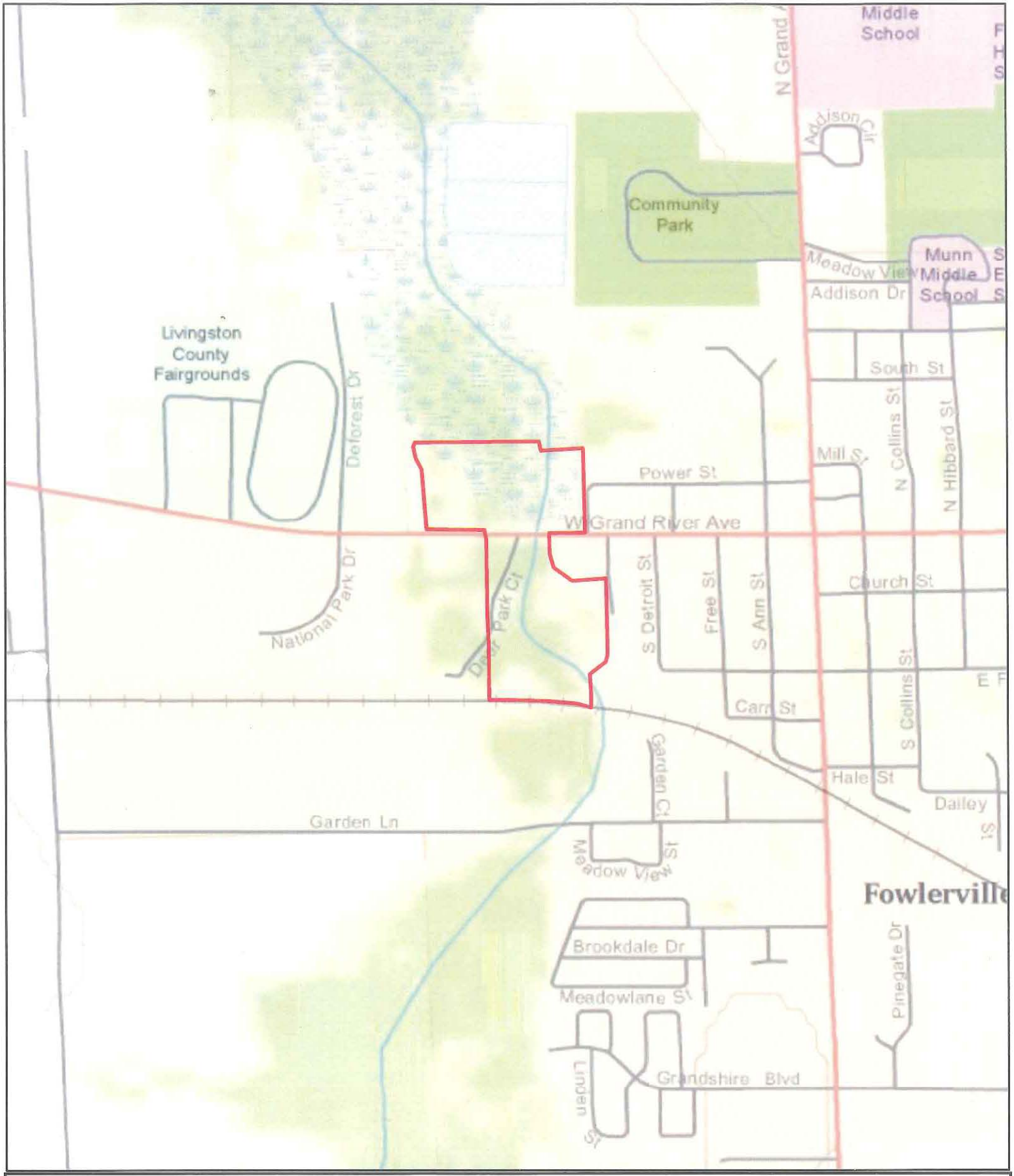


Figure 1. JCI Site, Ecological Receptor Assessment

Site boundary

0 465 930 1,860 2,790 3,720 Feet

N

URS

Figure 2. JCI Site, Ecological Receptor Assessment

Plant communities

- Emergent wetland
- Mowed lawn
- Old field
- Riparian woods/emergent wetland
- Riparian woods
- Upland woods
- Wooded wetland
- Water courses

0 150 300 600 900 1,200 Feet

N

URS

URS

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
CTI	JCI Site, Fowlerville, MI.	13813182

Photo No.	Date:
1	26 Aug 2010

Description: View facing south in the riparian woods/emergent wetland area of the northwest quarter of the project area.

Photo No.	Date:
2	26 Aug 2010

Description: View facing south in the riparian woods/emergent wetland area of the northwest quarter of the project area.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
CTI	JCI Site, Fowlerville, MI.	13813182

Photo No.	Date:
3	26 Aug 2010

Description: View facing south in the riparian woods/emergent wetland area of the northeast quarter of the project area.

Photo No.	Date:
4	26 Aug 2010

Description: View facing north along the bank of Red Cedar Creek, southwest quarter of the site.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
CTI	JCI Site, Fowlerville, MI.	13813182

Photo No.	Date:
5	26 Aug 2010

Description: View facing south in the riparian woods along the west bank of Red Cedar Creek. Note the clearing of riparian vegetation by the landowner.

Photo No.	Date:
6	26 Aug 2010

Description: View facing south in emergent wetland in the southwest quarter of the study area.

URS

PHOTOGRAPHIC LOG

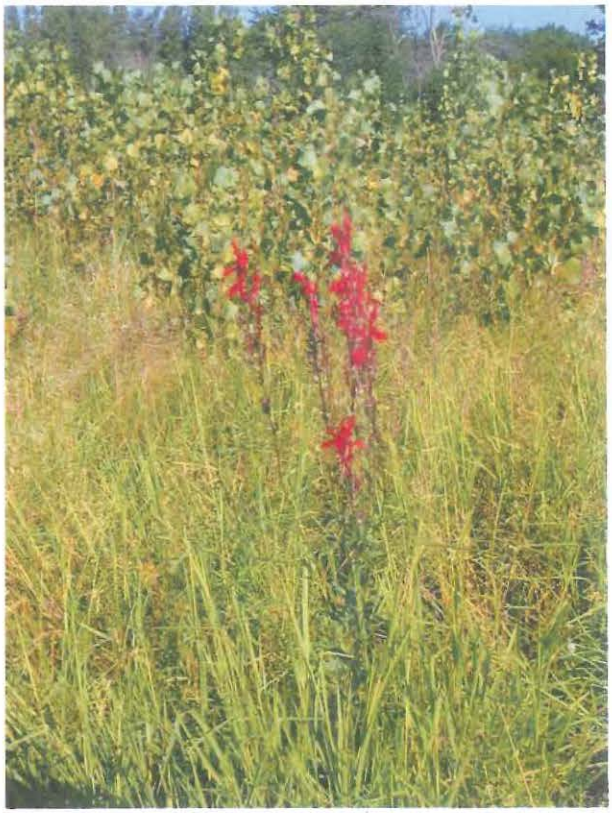
Client Name:	Site Location:	Project No.
CTI	JCI Site, Fowlerville, MI.	13813182

Photo No.	Date:
7	26 Aug 2010

Description: View facing north along the east bank of Red Cedar Creek, southeast quadrant.

Photo No.	Date:
8	26 Aug 2010

Description: View facing north in the oldfield area of the southwest quadrant. *Silene regia* (royal catchfly) and various sedge and grass species appear in the foreground; *Populus deltoides* (eastern cottonwood) saplings are seen in the background.



URS

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
CTI	JCI Site, Fowlerville, MI.	13813182

Photo No.	Date:
9	26 Aug 2010

Description: View facing north west showing the broad mudflat developing at low water in the drainage ditch separating the southeast quadrant into tow halves.

Photo No.	Date:
10	26 Aug 2010

Description: View facing north in the southeast quadrant, north of the drainage ditch.

APPENDIX E

APPENDIX E:

PH ANALYSIS

CTI and Associates, Inc.

51331 W. Pontiac Trail, Wixom, MI 48393 248.486.5100 Main 248.486.5050 Fax

12 December 2011

Juan Thomas
USEPA Region V, RCRA ECAB, DE-9J
77 W. Jackson Blvd.
Chicago, Illinois 60604

RE: pH Soil Sample Collection
Former Stanley Tools Facility (MID 099 124 299)

Dear Mr. Thomas:

In response to USEPA's letter dated 5 December 2011 (item "c" on page 3), overbank soil samples will be collected and analyzed for pH so that aluminum concentrations can be evaluated for compliance with risk-based criteria. Sample will be collected at prior sampling locations E-09-WO, F-09-WO, and K-09-WO (see attached Figures).

A total of three grab soil samples and one duplicate are proposed for collection. Samples will be collected from a depth interval of 0-6 inches. A duplicate sample will be collected from one of the locations. The soil samples will be transported to Trimatrix Laboratories under the chain of custody and analyzed for pH per EPA SW-846 9045S.

At each sampling location, vegetation above the soil surface will be removed. Utilizing a 6-inch stainless steel hand shovel, a hole measuring 6-inches deep will be dug. The excavated soil will be placed in a stainless steel bowl and thoroughly homogenized. The soil will then be placed in a laboratory-provided sample container. The samples will be transported to the laboratory under chain of custody.

A new pair of disposable nitrile gloves will be worn at each sampling location. Sampling equipment will be decontamined prior to first use and after each use by scraping adhered soil from shovel, spraying with Alconox soap water solution, rinsing with dionized water, and drying with paper towel.

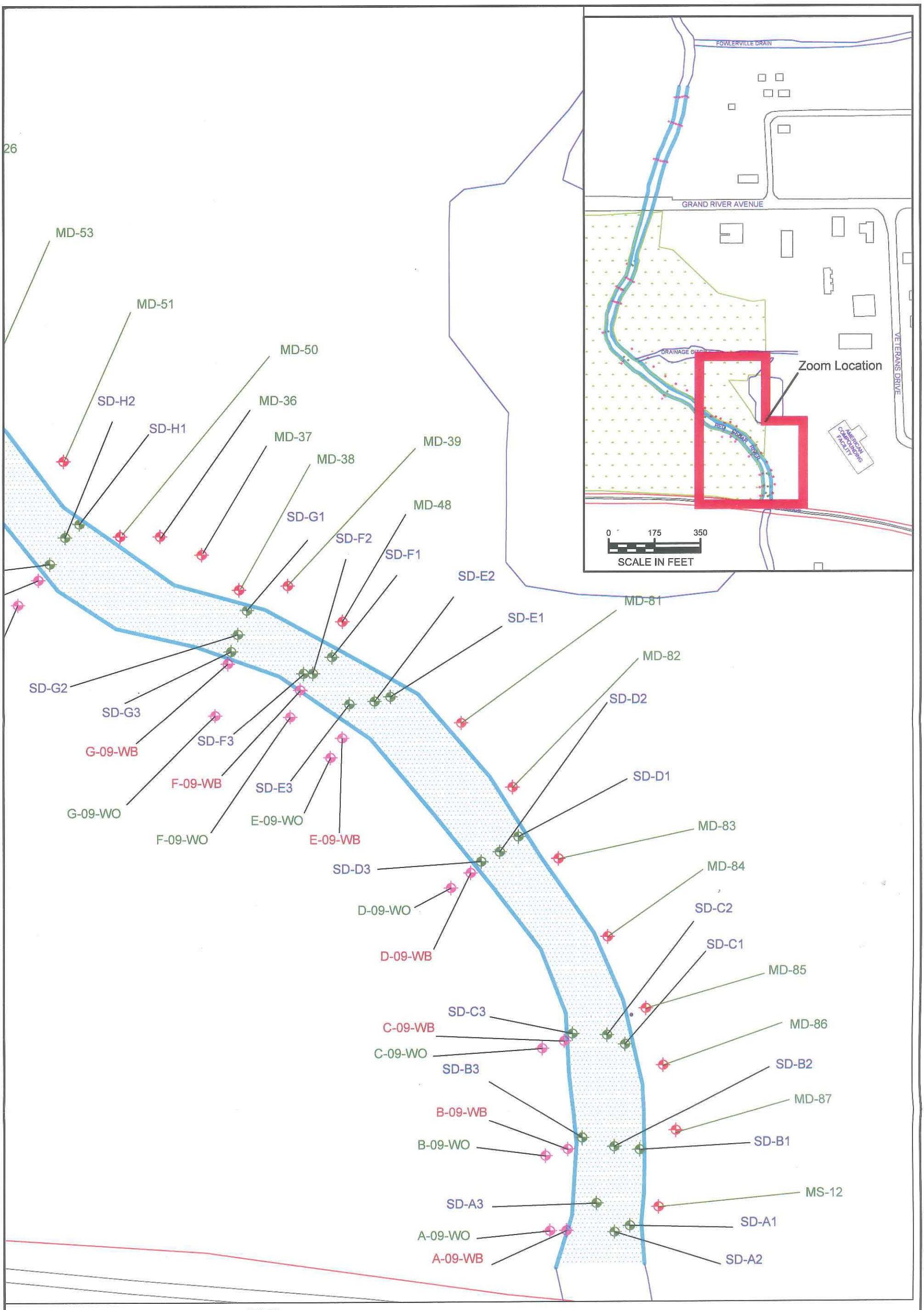
If you have questions, don't hesitate to contact Michael L. Stoelton, Johnson Controls, Inc. at (734) 254-5657, or me at (248) 560-0715.

Sincerely,

CTI and ASSOCIATES, INC.

Andrew J. Lonergan, PG
Project Manager

attachment



Designed By: C.KOGANTI
Drawn By: C.KOGANTI
Checked By: J.R. DICKSON
Approved By: A.J. LONERGAN

DATE Jan 2010

PROJECT NO. 095010XXX

FIGURE NO. 5

REVISIONS:

CLIENT: JCI Plymouth, MI

SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

SAMPLE LOCATIONS

CTI and Associates, Inc.

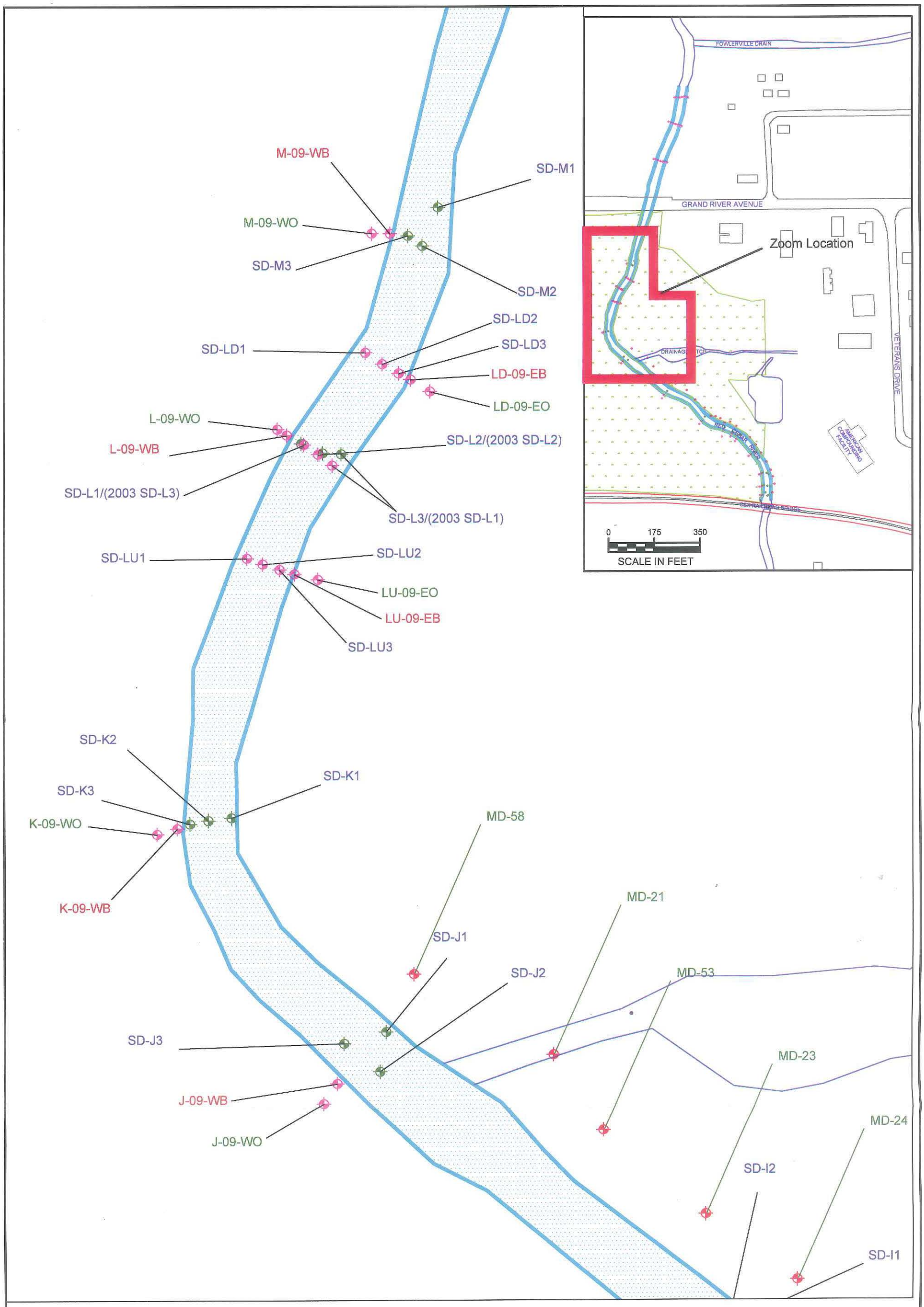


FIGURE NO. 7	PROJECT NO. 095010XXX	DATE Jan 2010	Approved By: A.J. LONERGAN	Checked By: J.R. DICKSON	Drawn By: C.KOGANTI
Designed By: C.KOGANTI	REVISIONS:	CLIENT: JCI Plymouth, MI	SEDIMENT REMEDIAL DESIGN PLAN FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI SAMPLE LOCATIONS	CTI and Associates, Inc.	

TRIMATRIX LABORATORIES

January 16, 2012

CTI and Associates, Inc.
Attn: Mr. Chandrashekar Koganti
51331 W. Pontiac Trail
Wixom, MI 48393

Project: JCI - Fowlerville Sediment Remediation

Dear Mr. Chandrashekar Koganti,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1201104	01/10/2012	Laboratory Services

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACLASS DoD-ELAP (#ADE-1542); Arkansas DEP (#10-046-0); Florida DEP (#E87622-05); Georgia EPD (#E87622-05); Illinois DEP (#002656); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#03068); Michigan DPH (#0034); Minnesota DPH (#026-999-161); New York ELAP (#44950); North Carolina DNRE (#659); Rhode Island DPH (#E87622); Texas CEQ (#T104704495-11-1); Virginia DCLS (#919); Wisconsin DNR (#999472650).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications section of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Gary L. Wood
Project Chemist

This report shall not be reproduced except in full, without written authorization of TriMatrix Laboratories, Inc.
Individual sample results relate only to the sample tested.

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**CTI and Associates, Inc.**	Work Order:	**1201104**
Project:	JCI - Fowlerville Sediment Remediation	Description:	Laboratory Services
Client Sample ID:	**E-09-WO-2**	Sampled:	01/10/12 10:00
Lab Sample ID:	**1201104-01**	Sampled By:	Erin Hobbs
Matrix:	Soil	Received:	01/10/12 17:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
pH	**7.3**	0.1	pH Units	1	USEPA-9045C	01/11/12 16:18	KRK	1201144

This report shall not be reproduced except in full, without written authorization of TriMatrix Laboratories, Inc.
Individual sample results relate only to the sample tested.

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**CTI and Associates, Inc.**	Work Order:	**1201104**
Project:	JCI - Fowlerville Sediment Remediation	Description:	Laboratory Services
Client Sample ID:	**F-09-WO-2**	Sampled:	01/10/12 10:30
Lab Sample ID:	**1201104-02**	Sampled By:	Erin Hobbs
Matrix:	Soil	Received:	01/10/12 17:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
pH	**7.5**	0.1	pH Units	1	USEPA-9045C	01/11/12 16:18	KRK	1201144

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Individual sample results relate only to the sample tested.

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**CTI and Associates, Inc.**	Work Order:	**1201104**
Project:	JCI - Fowlerville Sediment Remediation	Description:	Laboratory Services
Client Sample ID:	**K-09-WO-2**	Sampled:	01/10/12 11:10
Lab Sample ID:	**1201104-03**	Sampled By:	Erin Hobbs
Matrix:	Soil	Received:	01/10/12 17:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
pH	**7.7**	0.1	pH Units	1	USEPA-9045C	01/11/12 16:18	KRK	1201144

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ANALYTICAL REPORT

Client:	**CTI and Associates, Inc.**	Work Order:	**1201104**
Project:	JCI - Fowlerville Sediment Remediation	Description:	Laboratory Services
Client Sample ID:	**Dup**	Sampled:	01/10/12 11:15
Lab Sample ID:	**1201104-04**	Sampled By:	Erin Hobbs
Matrix:	Soil	Received:	01/10/12 17:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
pH	**7.6**	0.1	pH Units	1	USEPA-9045C	01/11/12 16:18	KRK	1201144

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QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: pH/USEPA-9045C									
QC Batch: 1201144 (General Inorganic Prep)							Analyzed: 01/11/2012		By: KRK
1201104-01 [E-09-WO-2]									
Duplicate	7.32		**7.36**	pH Units			0.5	20	0.1

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualification is required.

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5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 139694

Pg. 1 of 1

Analyses Requested

SW 846 9045 (pH) >

PRESERVATIVES
A NONE pH=7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

For Lab Use Only
Cart 12
VOA Rack/Tray
Receipt Log No. 45-17
Project Chemist
Work Order No. 1201104

Client Name: CTI & ASSOCIATES
Address: 51331 W PONTIAC TRAIL
City, State Zip: Wixom, MI
Phone/Fax:
Email: EHOBBS@CTICOMPANIES.COM

Project Name: JCI - FOWLERVILLE
Client Project No. / P.O. No.
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: ERIN HOBBS

Container Type (corresponds to Container Packing List): (125ml Plastic)

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	Matrix	Number of Containers Submitted	Total	Sample Comments
04		01	E-09-WO-2	719	1/10/12	1000	S	1		
		02	F-09-WO-2		1/10/12	1030	S	1		
		03	K-09-WO-2		1/10/12	1110	S	1		
FD		04	DUP		1/10/12	1115	S	1		

Sampled By (print): Erin Hobbs
Sampler's Signature:
Company: CTI & ASSOCIATES

How Shipped? Hand ___ Carrier ___
Tracking No

Comments

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time
[signature]	1/10/12	1230	Ray Johnson	1/10/12	1745			
Ray Johnson	1/10/12	13:18				Received for Lab By: [signature]	1/10/12	1745

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

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SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: Receipt Record Page/Line #: Work Order #: 1201104 New / Add To: Project Chemist: Sample #s:

Recorded by (Initials/date): Cooler / Box / Other _____ Qty Received: Thermometer Used: ☐ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____) ☐ See Additional Cooler Information Form

Cooler # / Time	Cooler # / Time	Cooler # / Time	Cooler # / Time
Custody Seals: ☑ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom
Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☑ None / Avg 2-3 containers	Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☑ None / Avg 2-3 containers	Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☑ None / Avg 2-3 containers	Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☑ None / Avg 2-3 containers
Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container	Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container	Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container	Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container
Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C
Temp Blank	Temp Blank	Temp Blank	Temp Blank
TB location: Representative / Not Representative	TB location: Representative / Not Representative	TB location: Representative / Not Representative	TB location: Representative / Not Representative
1 / 2 / 3	1 / 2 / 3	1 / 2 / 3	1 / 2 / 3
Average °C	Average °C	Average °C	Average °C
☐ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?
☐ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☐	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☐		Rec'd for Lab Signed/Date/Time?
☐	☐		Shipping document?
☐	☐		Other _____

COC ID #s

☐ TriMatrix

☐ Other (Name or ID#) _____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☐	☐	Sample ID matches COC?
☐	☐	Sample Date and Time matches COC?
☐		Container type completed on COC?
☐	☐	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	☐	☑	Broken containers/lids?
	☐	☑	Missing or incomplete labels?
	☐	☑	Illegible information on labels?
	☐	☑	Low volume received?
	☐	☑	Inappropriate containers received?
☐	☐	☐	VOC vials / TOX containers have headspace?
☐	☐	☐	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	☑	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S)

- ☐ NONE RECEIVED
- ☐ RECEIVED, COCs TO LAB(S)

Notes

- ☐ Trip Blank received ☐ Trip Blank not listed on COC
- ☐ No COC received, Proj. Chemist reviewed (Int/Date) _____
- ☐ No analysis requested, Proj. Chemist completed (Int/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
2/11/12	2/11/12	Yes / No

Log In Forms - Receiving:Log-In_Checklist revision: 3.0

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