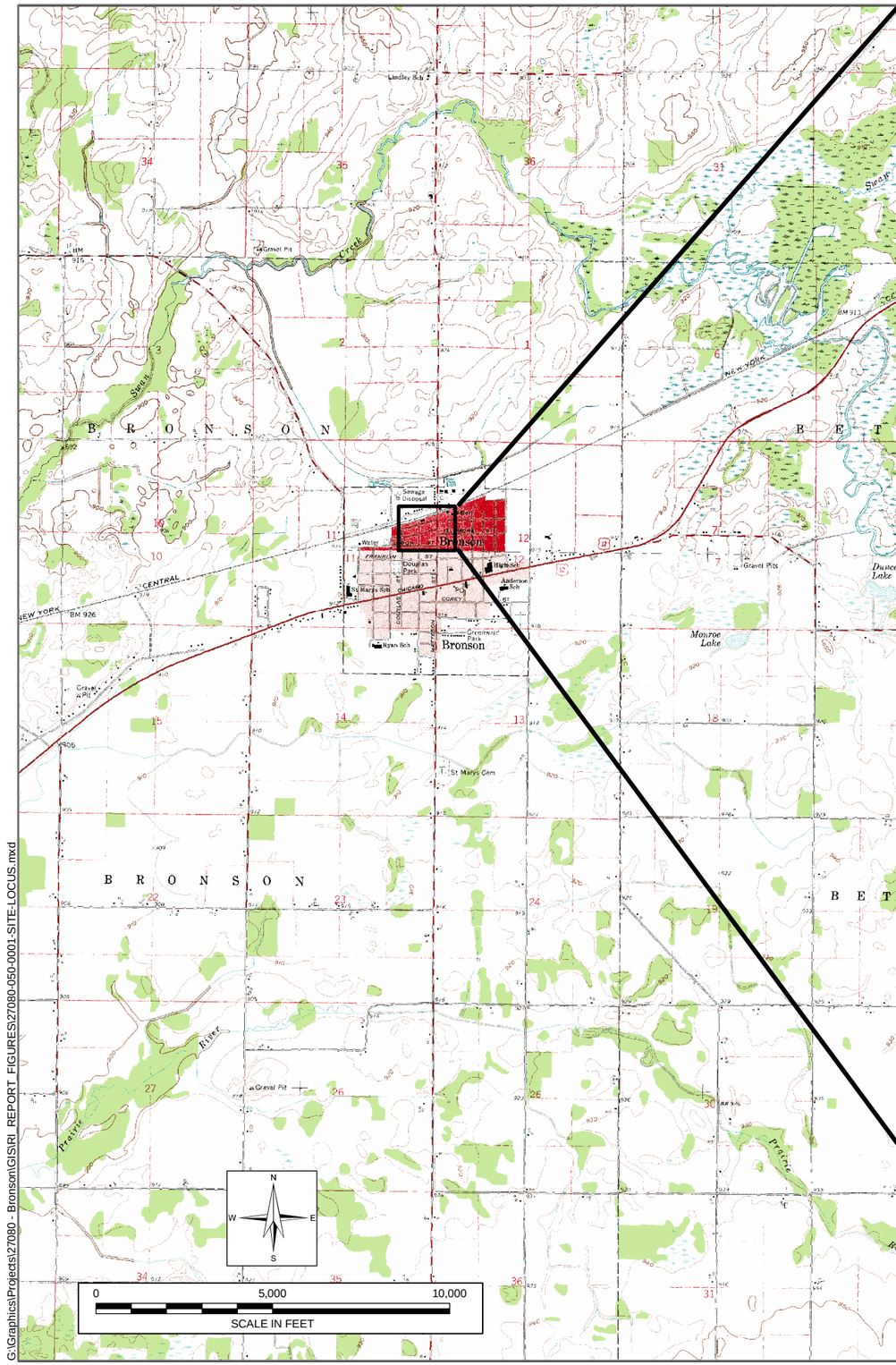

NOTES:

1. AERIAL SURVEY CONDUCTED BY ABRAMS, INC. (MARCH 2003)
2. GEOREFERENCED TOPOGRAPHIC IMAGE OBTAINED FROM WWW.CHARTTIFF.COM. COPYRIGHT BY IMAGE PEAK SYSTEMS CORPORATION, 2007. ALL RIGHTS RESERVED. (USGS QUADRANGLES: NORTH AND SOUTH BRONSON)
3. PROPERTY BOUNDARIES ARE APPROXIMATE.

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FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

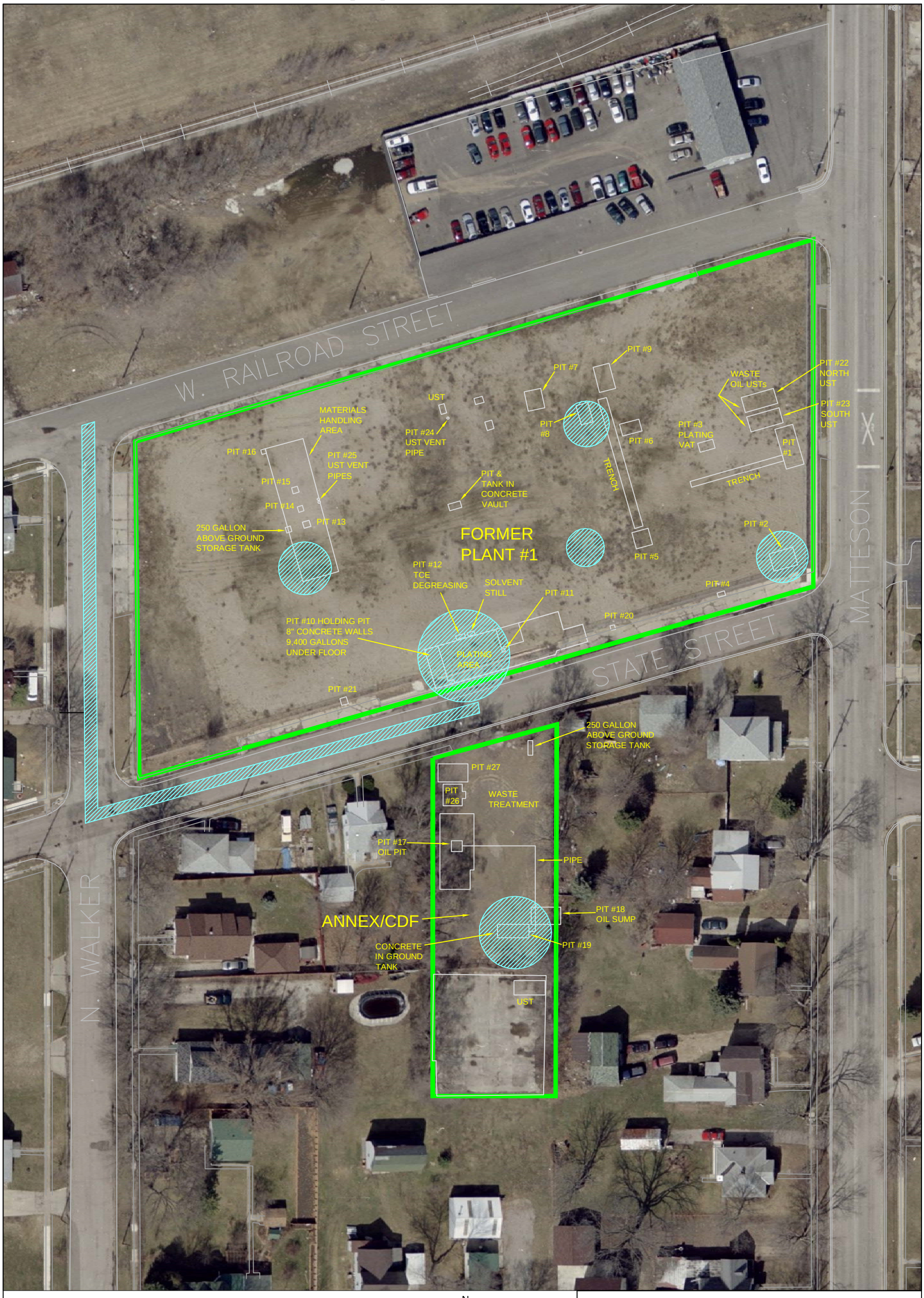
SITE LOCUS

SCALE: AS SHOWN
JUNE 2009

FIGURE 1

G:\Graphics\Projects\27080 - Bronson\GIS\RI_REPORT_FIGURES\27080-050-0001-SITE-LOCUS.mxd

G:\GRAPHICS\PROJECTS\27080 - BRONSON\CAD\RI FIGURES FINAL\27080-050-0038-SOURCE_AREAS_V2.DWG



LEGEND

- HISTORICAL SITE FEATURE
- POTENTIAL SOURCE AREA
- PROPERTY BOUNDARY

NOTES:

1. SITE PLAN BASED ON SURVEY CONDUCTED BY NEDERVELD ASSOCIATES, INC. (JULY 2003).
2. AERIAL SURVEY CONDUCTED BY ABRAMS, INC. (MARCH 2003).
3. PROPERTY BOUNDARY LOCATIONS ARE APPROXIMATE.

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SCALE IN FEET

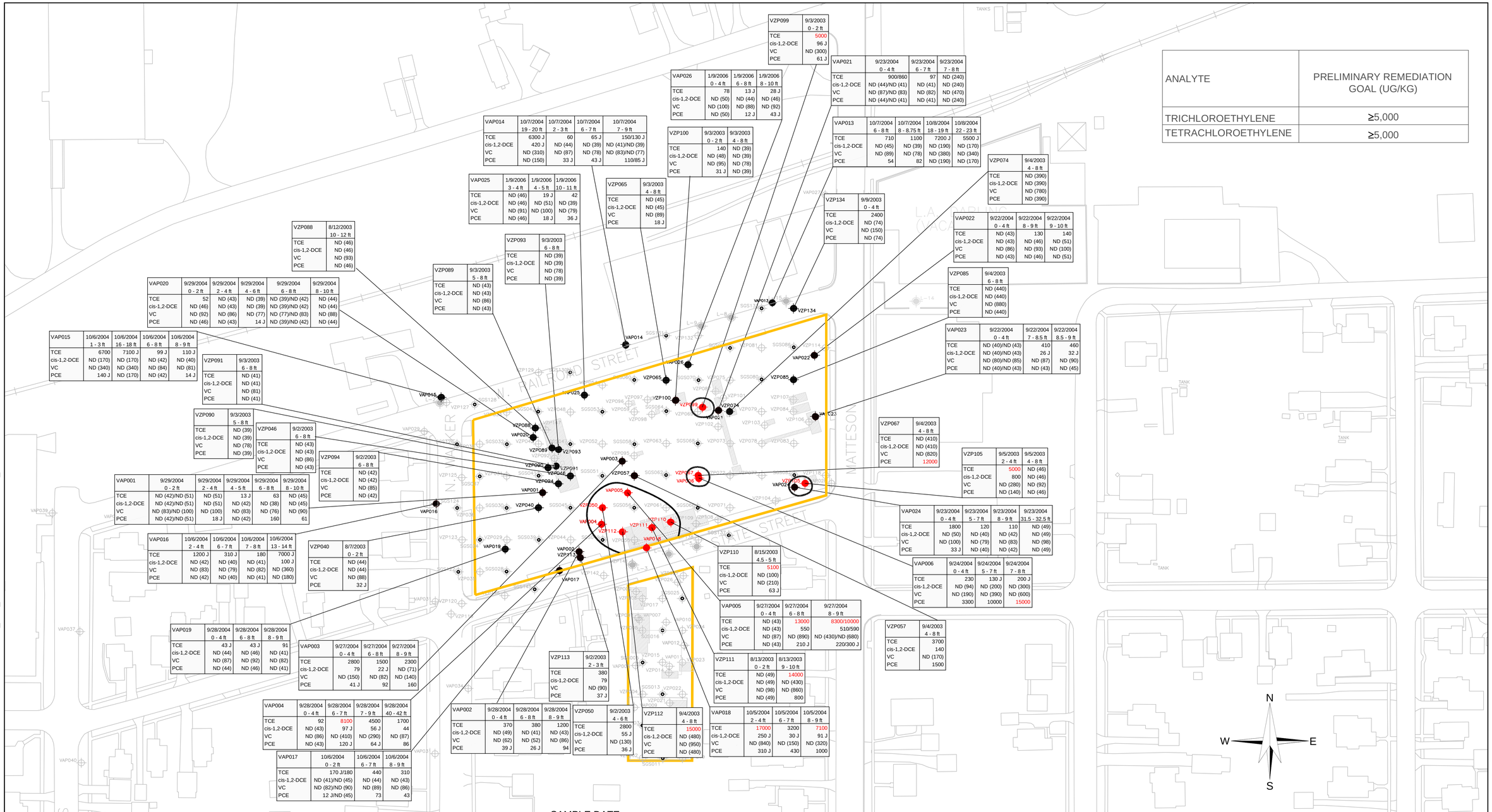
HALEY & ALDRICH

FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

SITE FEATURES MAP

SCALE: AS SHOWN
JUNE 2009

FIGURE 2



ANALYTE	PRELIMINARY REMEDIATION GOAL (UG/KG)
TRICHLOROETHYLENE	≥5,000
TETRACHLOROETHYLENE	≥5,000

VZP099	9/3/2003 0 - 2 ft
TCE	5000
cis-1,2-DCE	96 J
VC	ND (300)
PCE	61 J

VAP021	9/23/2004 0 - 4 ft	9/23/2004 6 - 7 ft	9/23/2004 7 - 8 ft
TCE	900/860	97	ND (240)
cis-1,2-DCE	ND (44)/ND (41)	ND (41)	ND (240)
VC	ND (87)/ND (83)	ND (82)	ND (470)
PCE	ND (44)/ND (41)	ND (41)	ND (240)

VAP026	1/9/2006 0 - 4 ft	1/9/2006 6 - 8 ft	1/9/2006 8 - 10 ft
TCE	78	13 J	28 J
cis-1,2-DCE	ND (50)	ND (44)	ND (46)
VC	ND (100)	ND (88)	ND (92)
PCE	ND (50)	12 J	43 J

VAP014	10/7/2004 19 - 20 ft	10/7/2004 2 - 3 ft	10/7/2004 6 - 7 ft	10/7/2004 7 - 9 ft
TCE	6300 J	60	65 J	150/130 J
cis-1,2-DCE	420 J	ND (44)	ND (39)	ND (41)/ND (39)
VC	ND (310)	ND (87)	ND (78)	ND (83)/ND (77)
PCE	ND (150)	33 J	43 J	110/85 J

VZP100	9/3/2003 0 - 2 ft	9/3/2003 4 - 8 ft
TCE	140	ND (39)
cis-1,2-DCE	ND (48)	ND (39)
VC	ND (95)	ND (78)
PCE	31 J	ND (39)

VAP013	10/7/2004 6 - 8 ft	10/7/2004 8 - 8.75 ft	10/8/2004 18 - 19 ft	10/8/2004 22 - 23 ft
TCE	710	1100	7200 J	5500 J
cis-1,2-DCE	ND (45)	ND (39)	ND (190)	ND (170)
VC	ND (89)	ND (78)	ND (380)	ND (340)
PCE	54	82	ND (190)	ND (170)

VAP025	1/9/2006 3 - 4 ft	1/9/2006 4 - 5 ft	1/9/2006 10 - 11 ft
TCE	ND (46)	19 J	42
cis-1,2-DCE	ND (46)	ND (51)	ND (39)
VC	ND (91)	ND (100)	ND (79)
PCE	ND (46)	18 J	36 J

VZP065	9/3/2003 4 - 8 ft
TCE	ND (45)
cis-1,2-DCE	ND (45)
VC	ND (89)
PCE	18 J

VZP074	9/4/2003 4 - 8 ft
TCE	ND (390)
cis-1,2-DCE	ND (390)
VC	ND (780)
PCE	ND (390)

VZP134	9/9/2003 0 - 4 ft
TCE	2400
cis-1,2-DCE	ND (74)
VC	ND (150)
PCE	ND (74)

VAP022	9/22/2004 0 - 4 ft	9/22/2004 8 - 9 ft	9/22/2004 9 - 10 ft
TCE	ND (43)	130	140
cis-1,2-DCE	ND (43)	ND (46)	ND (51)
VC	ND (86)	ND (93)	ND (100)
PCE	ND (43)	ND (46)	ND (51)

VZP088	8/12/2003 10 - 12 ft
TCE	ND (46)
cis-1,2-DCE	ND (46)
VC	ND (93)
PCE	ND (46)

VZP093	9/3/2003 6 - 8 ft
TCE	ND (39)
cis-1,2-DCE	ND (39)
VC	ND (78)
PCE	ND (39)

VZP089	9/3/2003 5 - 8 ft
TCE	ND (43)
cis-1,2-DCE	ND (43)
VC	ND (86)
PCE	ND (43)

VAP020	9/29/2004 0 - 2 ft	9/29/2004 2 - 4 ft	9/29/2004 4 - 6 ft	9/29/2004 6 - 8 ft	9/29/2004 8 - 10 ft
TCE	52	ND (43)	ND (39)	ND (39)/ND (42)	ND (44)
cis-1,2-DCE	ND (46)	ND (43)	ND (39)	ND (39)/ND (42)	ND (44)
VC	ND (92)	ND (86)	ND (77)	ND (77)/ND (83)	ND (88)
PCE	ND (46)	ND (43)	14 J	ND (39)/ND (42)	ND (44)

VAP015	10/6/2004 1 - 3 ft	10/6/2004 16 - 18 ft	10/6/2004 6 - 8 ft	10/6/2004 8 - 9 ft
TCE	6700	7100 J	99 J	110 J
cis-1,2-DCE	ND (170)	ND (170)	ND (42)	ND (40)
VC	ND (340)	ND (340)	ND (84)	ND (81)
PCE	140 J	ND (170)	ND (42)	14 J

VZP091	9/3/2003 6 - 8 ft
TCE	ND (41)
cis-1,2-DCE	ND (41)
VC	ND (81)
PCE	ND (41)

VZP085	9/4/2003 6 - 8 ft
TCE	ND (440)
cis-1,2-DCE	ND (440)
VC	ND (880)
PCE	ND (440)

VAP023	9/22/2004 0 - 4 ft	9/22/2004 7 - 8.5 ft	9/22/2004 8.5 - 9 ft
TCE	ND (40)/ND (43)	410	460
cis-1,2-DCE	ND (40)/ND (43)	26 J	32 J
VC	ND (80)/ND (85)	ND (87)	ND (90)
PCE	ND (40)/ND (43)	ND (43)	ND (45)

VZP090	9/3/2003 5 - 8 ft
TCE	ND (39)
cis-1,2-DCE	ND (39)
VC	ND (78)
PCE	ND (39)

VZP046	9/2/2003 6 - 8 ft
TCE	ND (43)
cis-1,2-DCE	ND (43)
VC	ND (86)
PCE	ND (43)

VZP094	9/2/2003 6 - 8 ft
TCE	ND (42)
cis-1,2-DCE	ND (42)
VC	ND (85)
PCE	ND (42)

VAP001	9/29/2004 0 - 2 ft	9/29/2004 2 - 4 ft	9/29/2004 4 - 5 ft	9/29/2004 6 - 8 ft	9/29/2004 8 - 10 ft
TCE	ND (42)/ND (51)	ND (51)	13 J	63	ND (45)
cis-1,2-DCE	ND (42)/ND (51)	ND (51)	ND (42)	ND (38)	ND (45)
VC	ND (83)/ND (100)	ND (100)	ND (83)	ND (76)	ND (90)
PCE	ND (42)/ND (51)	18 J	ND (42)	160	61

VAP016	10/6/2004 2 - 4 ft	10/6/2004 6 - 7 ft	10/6/2004 7 - 8 ft	10/6/2004 13 - 14 ft
TCE	1200 J	310 J	180	7000 J
cis-1,2-DCE	ND (42)	ND (40)	ND (41)	100 J
VC	ND (83)	ND (79)	ND (82)	ND (360)
PCE	ND (42)	ND (40)	ND (41)	ND (180)

VZP040	8/7/2003 0 - 2 ft
TCE	ND (44)
cis-1,2-DCE	ND (44)
VC	ND (88)
PCE	32 J

VZP067	9/4/2003 4 - 8 ft
TCE	ND (410)
cis-1,2-DCE	ND (410)
VC	ND (820)
PCE	12000

VZP105	9/5/2003 2 - 4 ft	9/5/2003 4 - 8 ft
TCE	5000	ND (46)
cis-1,2-DCE	800	ND (46)
VC	ND (280)	ND (92)
PCE	ND (140)	ND (46)

VAP024	9/23/2004 0 - 4 ft	9/23/2004 5 - 7 ft	9/23/2004 8 - 9 ft	9/23/2004 31.5 - 32.5 ft
TCE	1800	120	110	ND (49)
cis-1,2-DCE	ND (50)	ND (40)	ND (42)	ND (49)
VC	ND (100)	ND (79)	ND (83)	ND (98)
PCE	33 J	ND (40)	ND (42)	ND (49)

VAP006	9/24/2004 0 - 4 ft	9/24/2004 5 - 7 ft	9/24/2004 7 - 8 ft
TCE	230	130 J	200 J
cis-1,2-DCE	ND (94)	ND (200)	ND (300)
VC	ND (190)	ND (390)	ND (600)
PCE	3300	10000	15000

VZP110	8/15/2003 4.5 - 5 ft
TCE	5100
cis-1,2-DCE	ND (100)
VC	ND (210)
PCE	63 J

VAP005	9/27/2004 0 - 4 ft	9/27/2004 6 - 8 ft	9/27/2004 8 - 9 ft
TCE	ND (43)	13000	8300/10000
cis-1,2-DCE	ND (43)	550	510/590
VC	ND (87)	ND (890)	ND (430)/ND (680)
PCE	ND (43)	210 J	220/300 J

VZP057	9/4/2003 4 - 8 ft
TCE	3700
cis-1,2-DCE	140
VC	ND (170)
PCE	1500

VAP019	9/28/2004 0 - 4 ft	9/28/2004 6 - 8 ft	9/28/2004 8 - 9 ft
TCE	43 J	43 J	91
cis-1,2-DCE	ND (44)	ND (46)	ND (41)
VC	ND (87)	ND (92)	ND (82)
PCE	ND (44)	ND (46)	ND (41)

VAP003	9/27/2004 0 - 4 ft	9/27/2004 6 - 8 ft	9/27/2004 8 - 9 ft
TCE	2800	1500	2300
cis-1,2-DCE	79	22 J	ND (71)
VC	ND (150)	ND (82)	ND (140)
PCE	41 J	92	160

VZP113	9/2/2003 2 - 3 ft
TCE	380
cis-1,2-DCE	79
VC	ND (90)
PCE	37 J

VZP111	8/13/2003 0 - 2 ft	8/13/2003 9 - 10 ft
TCE	ND (49)	14000
cis-1,2-DCE	ND (49)	ND (430)
VC	ND (98)	ND (860)
PCE	ND (49)	800

VAP004	9/28/2004 0 - 4 ft	9/28/2004 6 - 7 ft	9/28/2004 7 - 9 ft	9/28/2004 40 - 42 ft
TCE	92	8100	4500	1700
cis-1,2-DCE	ND (43)	97 J	56 J	44
VC	ND (86)	ND (410)	ND (290)	ND (87)
PCE	ND (43)	120 J	64 J	86

VAP017	10/6/2004 0 - 2 ft	10/6/2004 6 - 7 ft	10/6/2004 8 - 9 ft
TCE	170 J/180	440	310
cis-1,2-DCE	ND (41)/ND (45)	ND (44)	ND (43)
VC	ND (82)/ND (90)	ND (89)	ND (86)
PCE	12 J/ND (45)	73	43

VAP002	9/28/2004 0 - 4 ft	9/28/2004 6 - 8 ft	9/28/2004 8 - 9 ft
TCE	370	380	1200
cis-1,2-DCE	ND (49)	ND (41)	ND (43)
VC	ND (62)	ND (52)	ND (86)
PCE	39 J	26 J	94

VZP050	9/2/2003 4 - 6 ft
TCE	2800
cis-1,2-DCE	55 J
VC	ND (130)
PCE	36 J

VZP112	9/4/2003 4 - 8 ft
TCE	15000
cis-1,2-DCE	ND (480)
VC	ND (950)
PCE	ND (480)

VAP018	10/5/2004 2 - 4 ft	10/5/2004 6 - 7 ft	10/5/2004 8 - 9 ft
TCE	17000	3200	7100
cis-1,2-DCE	250 J	30 J	91 J
VC	ND (840)	ND (150)	ND (320)
PCE	310 J	430	1000

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL SITE FEATURE
- VZP029 — GEOPROBE LOCATION SOIL, SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATION
- SGS145 — SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATIONS
- L-5 — MANHOLE SAMPLING LOCATIONS
- VZP057 — SAMPLING LOCATIONS EXCEEDING THE PRELIMINARY REMEDIATION GOAL

SAMPLE DATE
SAMPLE DEPTH

SAMPLE NAME

VZP057	9/4/2003 4 - 8 ft
TCE	3700
cis-1,2-DCE	140
VC	ND (170)
PCE	1500

DATABOX UNITS: UG/KG

RED TEXT INDICATES THAT THE ANALYTE WAS DETECTED AT A CONCENTRATION EXCEEDING THE PRELIMINARY REMEDIATION GOAL.

NOTES:
ND (44) = NOT DETECTED (REPORTING LIMIT)
J = ESTIMATED ANALYTICAL RESULT
TRICHLOROETHYLENE = TCE
CIS-1,2-DICHLOROETHENE = CIS-1,2-DCE
VINYL CHLORIDE = VC
TETRACHLOROETHENE = PCE

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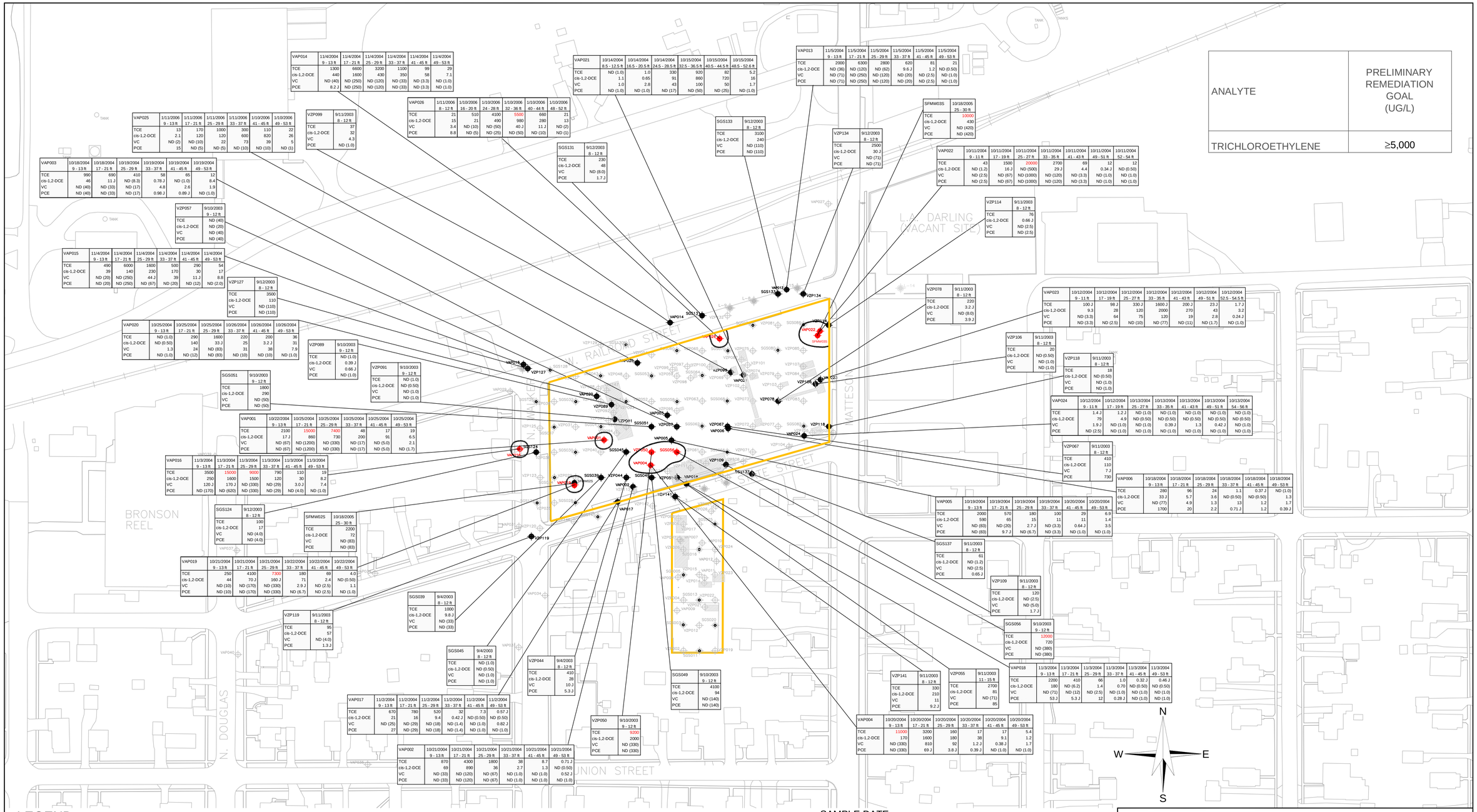
FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

VOCs IN SOIL - AREAS EXCEEDING THE PRGs FOR FORMER PLANT #1 AND INDUSTRIAL SEWER BENEATH N. WALKER AND STATE ST.

SCALE: AS SHOWN
JUNE 2009

FIGURE 3

G:\GRAPHICS\PROJECTS\27080 - BRONSONCAD\052-FEASIBILITY-STUDY\ORIGINAL_CAD_DWGS\27080-052-0001-SO-PLANT_JUNE2008.DWG



ANALYTE	PRELIMINARY REMEDIATION GOAL (UG/L)
TRICHLOROETHYLENE	≥5,000

VAP014	11/4/2004 9 - 13 ft	11/4/2004 17 - 21 ft	11/4/2004 25 - 29 ft	11/4/2004 33 - 37 ft	11/4/2004 41 - 45 ft	11/4/2004 49 - 53 ft
TCE	1300	6600	3200	1100	99	29
cis-1,2-DCE	440	1600	430	350	58	7.1
VC	ND (40)	ND (250)	ND (120)	ND (33)	ND (3.3)	ND (1.0)
PCE	8.2 J	ND (250)	ND (120)	ND (33)	ND (3.3)	ND (1.0)

VAP021	10/14/2004 8.5 - 12.5 ft	10/14/2004 16.5 - 20.5 ft	10/14/2004 24.5 - 28.5 ft	10/15/2004 32.5 - 36.5 ft	10/15/2004 40.5 - 44.5 ft	10/15/2004 48.5 - 52.6 ft
TCE	ND (1.0)	1.0	330	920	82	5.2
cis-1,2-DCE	1.1	0.65	91	860	720	16
VC	1.0	2.8	43	100	50	1.7
PCE	ND (1.0)	ND (1.0)	ND (17)	ND (50)	ND (25)	ND (1.0)

VAP013	11/5/2004 9 - 13 ft	11/5/2004 17 - 21 ft	11/5/2004 25 - 29 ft	11/5/2004 33 - 37 ft	11/5/2004 41 - 45 ft	11/5/2004 49 - 53 ft
TCE	2000	6300	2800	620	81	21
cis-1,2-DCE	ND (36)	ND (120)	ND (62)	9.6 J	1.2	ND (0.50)
VC	ND (71)	ND (250)	ND (120)	ND (20)	ND (2.5)	ND (1.0)
PCE	ND (71)	ND (250)	ND (120)	ND (20)	ND (2.5)	ND (1.0)

VAP025	1/11/2006 9 - 13 ft	1/11/2006 17 - 21 ft	1/11/2006 25 - 29 ft	1/11/2006 33 - 37 ft	1/10/2006 41 - 45 ft	1/10/2006 49 - 53 ft
TCE	13	170	1000	300	110	22
cis-1,2-DCE	2.1	120	120	600	820	26
VC	ND (2)	ND (10)	22	73	39	5
PCE	15	ND (5)	ND (5)	ND (10)	ND (10)	ND (1)

VZP099	9/11/2003 8 - 12 ft
TCE	37
cis-1,2-DCE	32
VC	4.3
PCE	ND (1.0)

VAP026	1/11/2006 8 - 12 ft	1/10/2006 16 - 20 ft	1/10/2006 24 - 28 ft	1/10/2006 32 - 36 ft	1/10/2006 40 - 44 ft	1/10/2006 48 - 52 ft
TCE	21	510	4100	5500	660	21
cis-1,2-DCE	15	21	450	980	280	13
VC	3.4	ND (10)	ND (50)	40 J	11 J	ND (2)
PCE	8.8	ND (5)	ND (25)	ND (50)	ND (10)	ND (1)

SGS133	9/12/2003 8 - 12 ft
TCE	3100
cis-1,2-DCE	240
VC	ND (110)
PCE	ND (110)

SGS131	9/12/2003 8 - 12 ft
TCE	230
cis-1,2-DCE	48
VC	ND (8.0)
PCE	1.7 J

VAP003	10/18/2004 9 - 13 ft	10/18/2004 17 - 21 ft	10/19/2004 25 - 29 ft	10/19/2004 33 - 37 ft	10/19/2004 41 - 45 ft	10/19/2004 49 - 53 ft
TCE	990	690	410	58	65	12
cis-1,2-DCE	46	11 J	ND (8.3)	0.78 J	ND (1.0)	8.4
VC	ND (40)	ND (33)	ND (17)	4.8	2.6	1.9
PCE	ND (40)	ND (33)	ND (17)	0.98 J	0.89 J	ND (1.0)

VZP057	9/10/2003 9 - 12 ft
TCE	ND (40)
cis-1,2-DCE	ND (20)
VC	ND (40)
PCE	ND (40)

VAP015	11/4/2004 9 - 13 ft	11/4/2004 17 - 21 ft	11/4/2004 25 - 29 ft	11/4/2004 33 - 37 ft	11/4/2004 41 - 45 ft	11/4/2004 49 - 53 ft
TCE	490	6000	1600	500	290	54
cis-1,2-DCE	39	140	230	170	30	17
VC	ND (20)	ND (250)	44 J	39	11 J	8.8
PCE	ND (20)	ND (250)	ND (67)	ND (20)	ND (12)	ND (2.0)

VZP127	9/12/2003 8 - 12 ft
TCE	3500
cis-1,2-DCE	110
VC	ND (110)
PCE	ND (110)

VAP020	10/25/2004 9 - 13 ft	10/25/2004 17 - 21 ft	10/25/2004 25 - 29 ft	10/26/2004 33 - 37 ft	10/26/2004 41 - 45 ft	10/26/2004 49 - 53 ft
TCE	ND (1.0)	290	1600	220	200	36
cis-1,2-DCE	ND (0.50)	140	33 J	25	3.2 J	31
VC	1.3	24	ND (83)	31	38	7.9
PCE	ND (1.0)	ND (12)	ND (83)	ND (10)	ND (10)	ND (1.0)

VZP089	9/10/2003 9 - 12 ft
TCE	ND (1.0)
cis-1,2-DCE	0.39 J
VC	0.66 J
PCE	ND (1.0)

VZP091	9/10/2003 9 - 12 ft
TCE	ND (1.0)
cis-1,2-DCE	ND (0.50)
VC	ND (1.0)
PCE	ND (1.0)

SGS051	9/10/2003 9 - 12 ft
TCE	1800
cis-1,2-DCE	290
VC	ND (50)
PCE	ND (50)

VAP001	10/22/2004 9 - 13 ft	10/25/2004 17 - 21 ft	10/25/2004 25 - 29 ft	10/25/2004 33 - 37 ft	10/25/2004 41 - 45 ft	10/25/2004 49 - 53 ft
TCE	2100	15000	7400	48	17	19
cis-1,2-DCE	17 J	860	730	200	91	6.5
VC	ND (67)	ND (1200)	ND (330)	ND (17)	ND (5.0)	2.1
PCE	ND (67)	ND (1200)	ND (330)	ND (17)	ND (5.0)	ND (1.7)

VAP016	11/3/2004 9 - 13 ft	11/3/2004 17 - 21 ft	11/3/2004 25 - 29 ft	11/3/2004 33 - 37 ft	11/3/2004 41 - 45 ft	11/3/2004 49 - 53 ft
TCE	3500	15000	9000	790	110	19
cis-1,2-DCE	250	1600	1500	120	30	8.2
VC	120 J	170 J	ND (330)	ND (29)	3.0 J	7.4
PCE	ND (170)	ND (620)	ND (330)	ND (29)	ND (4.0)	ND (1.0)

SGS124	9/12/2003 8 - 12 ft
TCE	100
cis-1,2-DCE	17
VC	ND (4.0)
PCE	ND (4.0)

SFMW02S	10/18/2005 25 - 30 ft
TCE	2200
cis-1,2-DCE	72
VC	ND (83)
PCE	ND (83)

VAP019	10/21/2004 9 - 13 ft	10/21/2004 17 - 21 ft	10/21/2004 25 - 29 ft	10/22/2004 33 - 37 ft	10/22/2004 41 - 45 ft	10/22/2004 49 - 53 ft
TCE	250	4100	7300	180	69	4.0
cis-1,2-DCE	44	70 J	160 J	71	2.4	ND (0.50)
VC	ND (10)	ND (170)	ND (330)	2.9 J	ND (2.5)	1.1
PCE	ND (10)	ND (170)	ND (330)	ND (6.7)	ND (2.5)	ND (1.0)

SGS039	9/4/2003 8 - 12 ft
TCE	1000
cis-1,2-DCE	9.8 J
VC	ND (33)
PCE	ND (33)

VZP119	9/11/2003 8 - 12 ft
TCE	95
cis-1,2-DCE	57
VC	ND (4.0)
PCE	1.3 J

SGS045	9/4/2003 8 - 12 ft
TCE	ND (1.0)
cis-1,2-DCE	ND (0.50)
VC	ND (1.0)
PCE	ND (1.0)

VZP044	9/4/2003 8 - 12 ft
TCE	410
cis-1,2-DCE	28
VC	10 J
PCE	5.3 J

VAP017	11/2/2004 9 - 13 ft	11/2/2004 17 - 21 ft	11/2/2004 25 - 29 ft	11/2/2004 33 - 37 ft	11/2/2004 41 - 45 ft	11/2/2004 49 - 53 ft
TCE	670	780	520	32	7.3	0.57 J
cis-1,2-DCE	21	16	9.4	0.42 J	ND (0.50)	ND (0.50)
VC	ND (25)	ND (29)	ND (18)	ND (1.4)	ND (1.0)	0.82 J
PCE	27	ND (29)	ND (18)	ND (1.4)	ND (1.0)	ND (1.0)

VZP050	9/10/2003 9 - 12 ft
TCE	9200
cis-1,2-DCE	2000
VC	ND (330)
PCE	ND (330)

VAP002	10/21/2004 9 - 13 ft	10/21/2004 17 - 21 ft	10/21/2004 25 - 29 ft	10/21/2004 33 - 37 ft	10/21/2004 41 - 45 ft	10/21/2004 49 - 53 ft
TCE	870	4300	1800	38	8.7	0.71 J
cis-1,2-DCE	69	890	36	2.7	1.3	ND (0.50)
VC	ND (33)	ND (120)	ND (67)	ND (1.0)	ND (1.0)	0.52 J
PCE	ND (33)	ND (120)	ND (67)	ND (1.0)	ND (1.0)	ND (1.0)

VZP134	9/12/2003 8 - 12 ft
TCE	2500
cis-1,2-DCE	30 J
VC	ND (71)
PCE	ND (71)

SFMW03S	10/18/2005 25 - 30 ft
TCE	10000
cis-1,2-DCE	430
VC	ND (420)
PCE	ND (420)

VAP022	10/11/2004 9 - 11 ft	10/11/2004 17 - 19 ft	10/11/2004 25 - 27 ft	10/11/2004 33 - 35 ft	10/11/2004 41 - 43 ft	10/11/2004 49 - 51 ft	10/11/2004 52 - 54 ft
TCE	43	1500	20000	2700	69	12	12
cis-1,2-DCE	ND (1.2)	16 J	ND (500)	29 J	4.4	0.34 J	ND (0.50)
VC	ND (2.5)	ND (67)	ND (1000)	ND (120)	ND (3.3)	ND (1.0)	ND (1.0)
PCE	ND (2.5)	ND (67)	ND (1000)	ND (120)	ND (3.3)	ND (1.0)	ND (1.0)

VZP114	9/11/2003 8 - 12 ft
TCE	76
cis-1,2-DCE	0.66 J
VC	ND (2.5)
PCE	ND (2.5)

VZP078	9/11/2003 8 - 12 ft
TCE	220
cis-1,2-DCE	3.2 J
VC	ND (8.0)
PCE	3.9 J

VAP023	10/12/2004 9 - 11 ft	10/12/2004 17 - 19 ft	10/12/2004 25 - 27 ft	10/12/2004 33 - 35 ft	10/12/2004 41 - 43 ft	10/12/2004 49 - 51 ft	10/12/2004 52.5 - 54.5 ft
TCE	100 J	98 J	330 J	1600 J	200 J	23 J	1.7 J
cis-1,2-DCE	9.3	28	120	2000	270	43	3.2
VC	ND (3.3)	64	75	120	19	2.8	0.24 J
PCE	ND (3.3)	ND (2.5)	ND (10)	ND (77)	ND (11)	ND (1.7)	ND (1.0)

VZP106	9/11/2003 8 - 12 ft
TCE	20
cis-1,2-DCE	ND (0.50)
VC	ND (1.0)
PCE	ND (1.0)

VZP118	9/11/2003 8 - 12 ft
TCE	18
cis-1,2-DCE	ND (0.50)
VC	ND (1.0)
PCE	ND (1.0)

VAP024	10/12/2004 9 - 11 ft	10/12/2004 17 - 19 ft	10/13/2004 25 - 27 ft	10/13/2004 33 - 35 ft	10/13/2004 41 - 43 ft	10/13/2004 49 - 51 ft	10/13/2004 54 - 56 ft
TCE	1.4 J	1.2 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-DCE	79	4.9	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
VC	1.9 J	ND (1.0)	ND (1.0)	0.39 J	1.3	0.42 J	ND (1.0)
PCE	ND (2.5)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

VZP067	9/11/2003 8 - 12 ft
TCE	410
cis-1,2-DCE	110
VC	7 J
PCE	730

VAP006	10/18/2004 9 - 13 ft	10/18/2004 17 - 21 ft	10/18/2004 25 - 29 ft	10/18/2004 33 - 37 ft	10/18/2004 41 - 45 ft	10/18/2004 49 - 53 ft
TCE	280	96	24	1.1	0.37 J	ND (1.0)
cis-1,2-DCE	33 J	5.7	3.6	ND (0.50)	ND (0.50)	1.3
VC	ND (77)	4.9	1.3	13	1.2	1.7
PCE	1700	20	2.2	0.71 J	1.2	0.39 J

VAP005	10/19/2004 9 - 13 ft	10/19/2004 17 - 21 ft	10/19/2004 25 - 29 ft	10/19/2004 33 - 37 ft	10/20/2004 41 - 45 ft	10/20/2004 49 - 53 ft
TCE	2000	570	180	100	29	6.9
cis-1,2-DCE	590	65	15	11	11	1.4
VC	ND (83)	ND (20)	2.7 J	ND (3.3)	0.64 J	3.5
PCE	ND (83)	9.7 J	ND (6.7)	ND (3.3)	ND (1.0)	ND (1.0)

SGS137	9/11/2003 8 - 12 ft
TCE	61
cis-1,2-DCE	ND (1.2)
VC	ND (2.5)
PCE	0.65 J

VZP109	9/11/2003 8 - 12 ft
TCE	120
cis-1,2-DCE	ND (2.5)
VC	ND (5.0)
PCE	1.7 J

SGS056	9/10/2003 9 - 12 ft
TCE	12000
cis-1,2-DCE	720
VC	ND (380)
PCE	ND (380)

VAP018	11/3/2004 9 - 13 ft	11/3/2004 17 - 21 ft	11/3/2004 25 - 29 ft	11/3/2004 33 - 37 ft	11/3/2004 41 - 45 ft	11/3/2004 49 - 53 ft
TCE	2200	410	66	1.0	0.32 J	0.46 J
cis-1,2-DCE	180	ND (6.2)	1.4	0.70	ND (0.50)	ND (0.50)
VC	ND (71)	ND (12)	ND (2.5)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	53 J	5.3 J	12	0.28 J	ND (1.0)	ND (1.0)

VZP141	9/11/2003 8 - 12 ft
TCE	330
cis-1,2-DCE	210
VC	11
PCE	9.2 J

VZP055	9/11/2003 11 - 15 ft
TCE	2700
cis-1,2-DCE	81
VC	ND (71)
PCE	85

SGS049	9/10/2003 9 - 12 ft
TCE	4100
cis-1,2-DCE	94
VC	ND (140)
PCE	ND (140)

VAP004	10/20/2004 9 - 13 ft	10/20/2004 17 - 21 ft	10/20/2004 25 - 29 ft	10/20/2004 33 - 37 ft	10/20/2004 41 - 45 ft	10/20/2004 49 - 53 ft
TCE	11000	3200	160	17	17	5.4
cis-1,2-DCE	170	1600	180	38	9.1	1.2
VC	ND (330)	810	92	1.2 J	0.38 J	1.7
PCE	ND (330)	69 J	3.8 J	0.39 J	ND (1.0)	ND (1.0)

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL SITE FEATURE
- L-5 MANHOLE SAMPLING LOCATIONS
- VZP052 GEOPROBE LOCATION SOIL, SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATION
- SGS058 SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATIONS
- VZP044 SAMPLING LOCATIONS EXCEEDING THE PRELIMINARY REMEDIATION GOAL

0 75 150 225 300
SCALE IN FEET

NOTES:
ND = NOT DETECTED
J = ESTIMATED ANALYTICAL RESULT
TRICHLOROETHYLENE = TCE
CIS-1,2-DICHLOROETHENE = CIS-1,2-DCE
VINYL CHLORIDE = VC
TETRACHLOROETHENE = PCE

SAMPLE DATE
SAMPLE DEPTH
SAMPLE NAME

SGS131	9/12/2003 8 - 12 ft
TCE	230
cis-1,2-DCE	48
VC	ND (8.0)
PCE	1.7 J

DATABOX UNITS: UG/L

RED TEXT INDICATES THAT THE ANALYTE WAS DETECTED AT A CONCENTRATION EXCEEDING THE PRELIMINARY REMEDIATION GOAL.

HALEY & ALDRICH

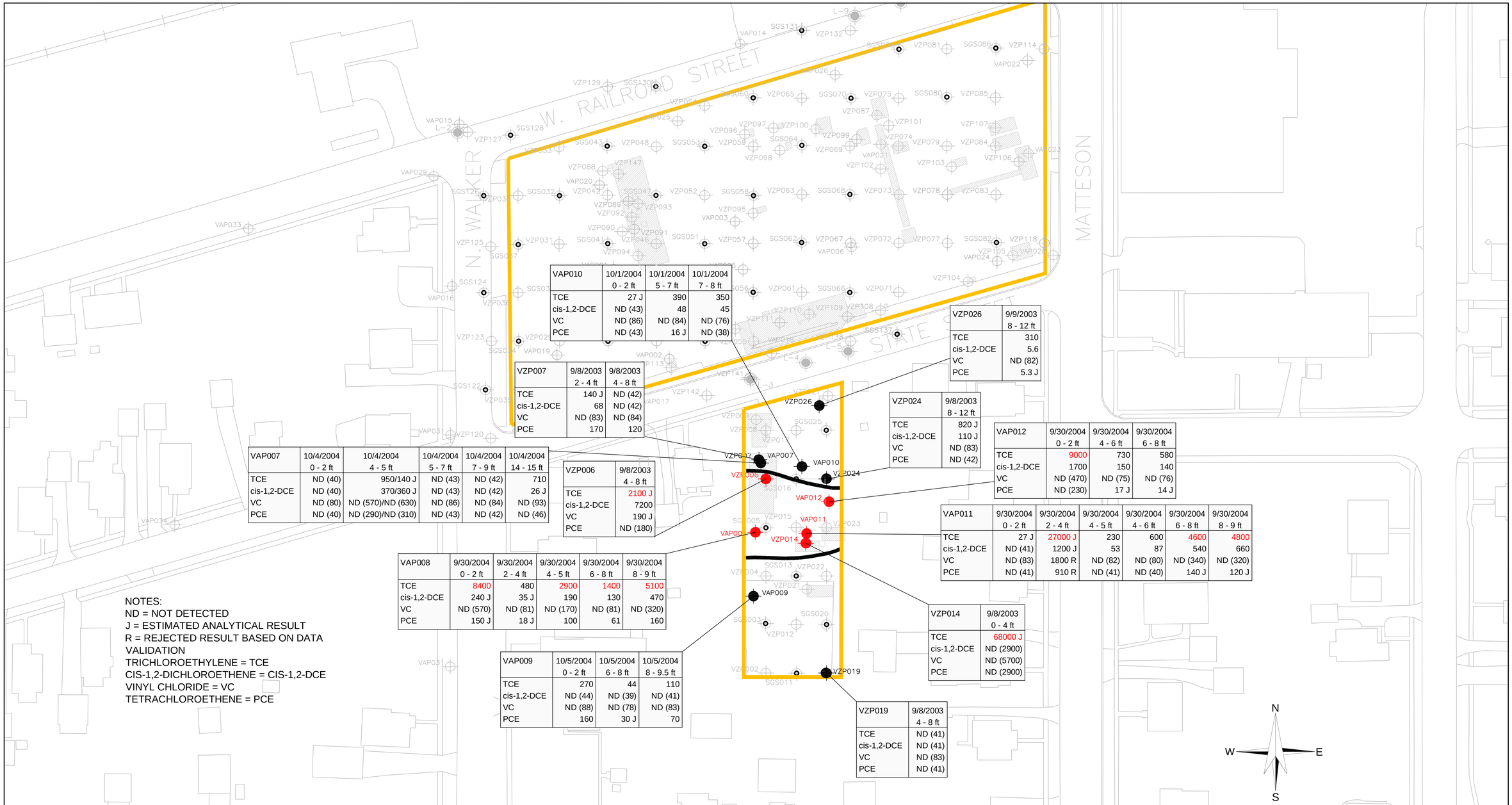
FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

VOCs IN GROUNDWATER - AREAS EXCEEDING THE PRGs FOR FORMER PLANT #1 AND INDUSTRIAL SEWER BENEATH N. WALKER AND STATE ST.

SCALE: AS SHOWN
JUNE 2009

FIGURE 4

G:\GRAPHICS\PROJECTS\27080 - BRONSON\CAD\052-FEASIBILITY-STUDY\27080-052-0004-GW-PLANT.DWG



VAP010	10/1/2004 0 - 2 ft	10/1/2004 5 - 7 ft	10/1/2004 7 - 8 ft
TCE	27 J	390	350
cis-1,2-DCE	ND (43)	48	45
VC	ND (86)	ND (84)	ND (76)
PCE	ND (43)	16 J	ND (38)

VZP007	9/8/2003 2 - 4 ft	9/8/2003 4 - 8 ft
TCE	140 J	ND (42)
cis-1,2-DCE	68	ND (42)
VC	ND (83)	ND (84)
PCE	170	120

VAP007	10/4/2004 0 - 2 ft	10/4/2004 4 - 5 ft	10/4/2004 5 - 7 ft	10/4/2004 7 - 9 ft	10/4/2004 14 - 15 ft
TCE	ND (40)	950/140 J	ND (43)	ND (42)	710
cis-1,2-DCE	ND (40)	370/360 J	ND (43)	ND (42)	26 J
VC	ND (80)	ND (570)/ND (630)	ND (86)	ND (84)	ND (93)
PCE	ND (40)	ND (290)/ND (310)	ND (43)	ND (42)	ND (46)

VZP006	9/8/2003 4 - 8 ft
TCE	2100 J
cis-1,2-DCE	7200
VC	190 J
PCE	ND (180)

VAP008	9/30/2004 0 - 2 ft	9/30/2004 2 - 4 ft	9/30/2004 4 - 5 ft	9/30/2004 6 - 8 ft	9/30/2004 8 - 9 ft
TCE	8400	480	2900	1400	5100
cis-1,2-DCE	240 J	35 J	190	130	470
VC	ND (570)	ND (81)	ND (170)	ND (81)	ND (320)
PCE	150 J	18 J	100	61	160

VAP009	10/5/2004 0 - 2 ft	10/5/2004 6 - 8 ft	10/5/2004 8 - 9.5 ft
TCE	270	44	110
cis-1,2-DCE	ND (44)	ND (39)	ND (41)
VC	ND (88)	ND (78)	ND (83)
PCE	160	30 J	70

VZP026	9/9/2003 8 - 12 ft
TCE	310
cis-1,2-DCE	5.6
VC	ND (82)
PCE	5.3 J

VZP024	9/8/2003 8 - 12 ft
TCE	820 J
cis-1,2-DCE	110 J
VC	ND (83)
PCE	ND (42)

VAP012	9/30/2004 0 - 2 ft	9/30/2004 4 - 6 ft	9/30/2004 6 - 8 ft
TCE	9000	730	580
cis-1,2-DCE	1700	150	140
VC	ND (470)	ND (75)	ND (76)
PCE	ND (230)	17 J	14 J

VAP011	9/30/2004 0 - 2 ft	9/30/2004 2 - 4 ft	9/30/2004 4 - 5 ft	9/30/2004 4 - 6 ft	9/30/2004 6 - 8 ft	9/30/2004 8 - 9 ft
TCE	27 J	27000 J	230	600	4600	4800
cis-1,2-DCE	ND (41)	1200 J	53	87	540	660
VC	ND (83)	1800 R	ND (82)	ND (80)	ND (340)	ND (320)
PCE	ND (41)	910 R	ND (41)	ND (40)	140 J	120 J

VZP014	9/8/2003 0 - 4 ft
TCE	68000 J
cis-1,2-DCE	ND (2900)
VC	ND (5700)
PCE	ND (2900)

VZP019	9/8/2003 4 - 8 ft
TCE	ND (41)
cis-1,2-DCE	ND (41)
VC	ND (83)
PCE	ND (41)

NOTES:
ND = NOT DETECTED
J = ESTIMATED ANALYTICAL RESULT
R = REJECTED RESULT BASED ON DATA VALIDATION
TRICHLOROETHYLENE = TCE
CIS-1,2-DICHLOROETHENE = CIS-1,2-DCE
VINYL CHLORIDE = VC
TETRACHLOROETHENE = PCE

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL SITE FEATURE
- VZP021 — GEOPROBE LOCATION SOIL, SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATION
- SGS003 — SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATIONS
- L-5 — MANHOLE SAMPLING LOCATIONS
- VZP009 — SAMPLING LOCATIONS EXCEEDING THE PRELIMINARY REMEDIATION GOAL

ANALYTE	PRELIMINARY REMEDIATION GOAL (UG/KG)
TRICHLOROETHYLENE	≥1,000

SAMPLE NAME — SAMPLE DATE — SAMPLE DEPTH

VZP008	9/30/2004 0 - 2 ft
TCE	8400
cis-1,2-DCE	240 J
VC	ND (570)
PCE	150 J

DATABOX UNITS: UG/KG

0 40 80 120 160
SCALE IN FEET

RED TEXT INDICATES THAT THE ANALYTE WAS DETECTED AT A CONCENTRATION EXCEEDING THE PRELIMINARY REMEDIATION GOAL.

HALEY & ALDRICH

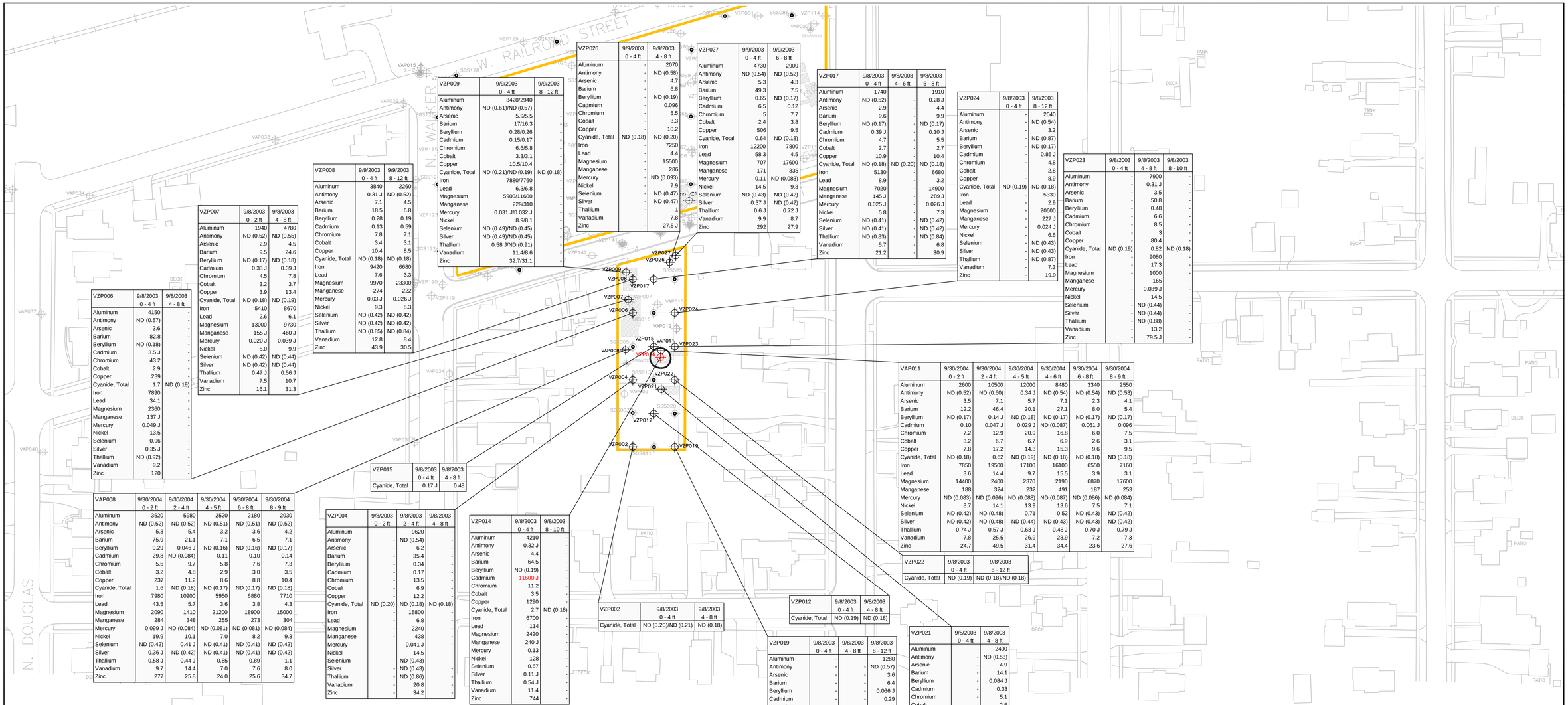
FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

VOCs IN SOIL - AREAS EXCEEDING THE PRGs FOR FORMER ANNEX/CDF

SCALE: AS SHOWN
JUNE 2009

FIGURE 5

G:\GRAPHICS\PROJECTS\27080 - BRONSONICAD\052-FEASIBILITY-STUDY\27080-052-0002-SO-ANNEX-V2_JUNE2008.DWG



VZP026	9/9/2003 0 - 4 ft	9/9/2003 4 - 8 ft
Aluminum	-	2070
Antimony	-	ND (0.58)
Arsenic	-	4.7
Barium	-	6.8
Beryllium	-	ND (0.19)
Cadmium	-	0.096
Chromium	-	5.5
Cobalt	-	3.3
Copper	-	10.2
Cyanide, Total	ND (0.18)	ND (0.20)
Iron	-	7250
Lead	-	4.4
Magnesium	-	15500
Manganese	-	286
Mercury	-	ND (0.093)
Nickel	-	7.9
Selenium	-	ND (0.47)
Silver	-	ND (0.47)
Thallium	-	1
Vanadium	-	7.8
Zinc	-	27.5 J

VZP027	9/9/2003 0 - 4 ft	9/9/2003 6 - 8 ft
Aluminum	4730	2900
Antimony	ND (0.54)	ND (0.52)
Arsenic	5.3	4.3
Barium	49.3	7.5
Beryllium	0.65	ND (0.17)
Cadmium	6.5	0.12
Chromium	5	7.7
Cobalt	2.4	3.8
Copper	506	9.5
Cyanide, Total	0.64	ND (0.18)
Iron	12200	7800
Lead	58.3	4.5
Magnesium	707	17600
Manganese	171	335
Mercury	0.11	ND (0.083)
Nickel	14.5	9.3
Selenium	ND (0.43)	ND (0.42)
Silver	0.37 J	ND (0.42)
Thallium	0.6 J	0.72 J
Vanadium	9.9	8.7
Zinc	292	27.9

VZP009	9/9/2003 0 - 4 ft	9/9/2003 8 - 12 ft
Aluminum	3420/2940	-
Antimony	ND (0.61)/ND (0.57)	-
Arsenic	5.9/5.5	-
Barium	17/16.3	-
Beryllium	0.28/0.26	-
Cadmium	0.15/0.17	-
Chromium	6.6/5.8	-
Cobalt	3.3/3.1	-
Copper	10.5/10.4	-
Cyanide, Total	ND (0.21)/ND (0.19)	ND (0.18)
Iron	7880/7760	-
Lead	6.3/6.8	-
Magnesium	5900/11600	-
Manganese	229/310	-
Mercury	0.031 J/0.032 J	-
Nickel	8.9/8.1	-
Selenium	ND (0.49)/ND (0.45)	-
Silver	ND (0.49)/ND (0.45)	-
Thallium	0.58 J/ND (0.91)	-
Vanadium	11.4/8.6	-
Zinc	32.7/31.1	-

VZP017	9/8/2003 0 - 4 ft	9/8/2003 4 - 6 ft	9/8/2003 6 - 8 ft
Aluminum	1740	-	1910
Antimony	ND (0.52)	-	0.28 J
Arsenic	2.9	-	4.4
Barium	9.6	-	9.9
Beryllium	ND (0.17)	-	ND (0.17)
Cadmium	0.39 J	-	0.10 J
Chromium	4.7	-	5.5
Cobalt	2.7	-	2.7
Copper	10.9	-	10.4
Cyanide, Total	ND (0.18)	ND (0.20)	ND (0.18)
Iron	5130	-	6680
Lead	8.9	-	3.2
Magnesium	7020	-	14900
Manganese	145 J	-	289 J
Mercury	0.025 J	-	0.026 J
Nickel	5.8	-	7.3
Selenium	ND (0.41)	-	ND (0.42)
Silver	ND (0.41)	-	ND (0.42)
Thallium	ND (0.83)	-	ND (0.84)
Vanadium	5.7	-	6.8
Zinc	21.2	-	30.9

VZP024	9/8/2003 0 - 4 ft	9/8/2003 8 - 12 ft
Aluminum	-	2040
Antimony	-	ND (0.54)
Arsenic	-	3.2
Barium	-	ND (0.87)
Beryllium	-	ND (0.17)
Cadmium	-	0.86 J
Chromium	-	4.8
Cobalt	-	2.8
Copper	-	8.9
Cyanide, Total	ND (0.19)	ND (0.18)
Iron	-	5330
Lead	-	2.9
Magnesium	-	20600
Manganese	-	227 J
Mercury	-	0.024 J
Nickel	-	6.6
Selenium	-	ND (0.43)
Silver	-	ND (0.43)
Thallium	-	ND (0.87)
Vanadium	-	7.3
Zinc	-	19.9

VZP023	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft	9/8/2003 8 - 10 ft
Aluminum	-	7900	-
Antimony	-	0.31 J	-
Arsenic	-	3.5	-
Barium	-	50.8	-
Beryllium	-	0.48	-
Cadmium	-	6.6	-
Chromium	-	8.5	-
Cobalt	-	3	-
Copper	-	80.4	-
Cyanide, Total	ND (0.19)	0.82	ND (0.18)
Iron	-	9080	-
Lead	-	17.3	-
Magnesium	-	1000	-
Manganese	-	165	-
Mercury	-	0.039 J	-
Nickel	-	14.5	-
Selenium	-	ND (0.44)	-
Silver	-	ND (0.44)	-
Thallium	-	ND (0.88)	-
Vanadium	-	13.2	-
Zinc	-	79.5 J	-

VZP008	9/9/2003 0 - 4 ft	9/9/2003 8 - 12 ft
Aluminum	3840	2260
Antimony	0.31 J	ND (0.52)
Arsenic	7.1	4.5
Barium	18.5	6.8
Beryllium	0.28	0.19
Cadmium	0.13	0.59
Chromium	7.8	7.1
Cobalt	3.4	3.1
Copper	10.4	8.5
Cyanide, Total	ND (0.18)	ND (0.18)
Iron	9420	6680
Lead	7.6	3.3
Magnesium	9970	23300
Manganese	274	222
Mercury	0.03 J	0.026 J
Nickel	9.3	8.3
Selenium	ND (0.42)	ND (0.42)
Silver	ND (0.42)	ND (0.42)
Thallium	ND (0.85)	ND (0.84)
Vanadium	12.8	8.4
Zinc	43.9	30.5

VZP007	9/8/2003 0 - 2 ft	9/8/2003 4 - 8 ft
Aluminum	1940	4780
Antimony	ND (0.52)	ND (0.55)
Arsenic	2.9	4.5
Barium	9.5	24.6
Beryllium	ND (0.17)	ND (0.18)
Cadmium	0.33 J	0.39 J
Chromium	4.5	7.8
Cobalt	3.2	3.7
Copper	3.9	13.4
Cyanide, Total	ND (0.18)	ND (0.19)
Iron	5410	8670
Lead	2.6	6.1
Magnesium	13000	9730
Manganese	155 J	460 J
Mercury	0.020 J	0.039 J
Nickel	5.0	9.9
Selenium	ND (0.42)	ND (0.44)
Silver	ND (0.42)	ND (0.44)
Thallium	0.47 J	0.56 J
Vanadium	7.5	10.7
Zinc	16.1	31.3

VZP006	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft
Aluminum	4150	-
Antimony	ND (0.57)	-
Arsenic	3.6	-
Barium	82.8	-
Beryllium	ND (0.18)	-
Cadmium	3.5 J	-
Chromium	43.2	-
Cobalt	2.9	-
Copper	239	-
Cyanide, Total	1.7	ND (0.19)
Iron	7890	-
Lead	34.1	-
Magnesium	2360	-
Manganese	137 J	-
Mercury	0.049 J	-
Nickel	13.5	-
Selenium	0.96	-
Silver	0.35 J	-
Thallium	ND (0.92)	-
Vanadium	9.2	-
Zinc	120	-

VAP011	9/30/2004 0 - 2 ft	9/30/2004 2 - 4 ft	9/30/2004 4 - 5 ft	9/30/2004 4 - 6 ft	9/30/2004 6 - 8 ft	9/30/2004 8 - 9 ft
Aluminum	2600	10500	12000	8480	3340	2550
Antimony	ND (0.52)	ND (0.60)	0.34 J	ND (0.54)	ND (0.54)	ND (0.53)
Arsenic	3.5	7.1	5.7	7.1	2.3	4.1
Barium	12.2	46.4	20.1	27.1	8.0	5.4
Beryllium	ND (0.17)	0.14 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
Cadmium	0.10	0.047 J	0.029 J	ND (0.087)	0.061 J	0.096
Chromium	7.2	12.9	20.9	16.8	6.0	7.5
Cobalt	3.2	6.7	6.7	6.9	2.6	3.1
Copper	7.8	17.2	14.3	15.3	9.6	9.5
Cyanide, Total	ND (0.18)	0.62	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)
Iron	7850	19500	17100	16100	6550	7160
Lead	3.6	14.4	9.7	15.5	3.9	3.1
Magnesium	14400	2400	2370	2190	6870	17600
Manganese	188	324	232	491	187	253
Mercury	ND (0.083)	ND (0.096)	ND (0.088)	ND (0.087)	ND (0.086)	ND (0.084)
Nickel	8.7	14.1	13.9	13.6	7.5	7.1
Selenium	ND (0.42)	ND (0.48)	0.71	0.52	ND (0.43)	ND (0.42)
Silver	ND (0.42)	ND (0.48)	ND (0.44)	ND (0.43)	ND (0.43)	ND (0.42)
Thallium	0.74 J	0.57 J	0.63 J	0.48 J	0.70 J	0.79 J
Vanadium	7.8	25.5	26.9	23.9	7.2	7.3
Zinc	24.7	49.5	31.4	34.4	23.6	27.6

VZP015	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft
Cyanide, Total	0.17 J	0.48

VAP008	9/30/2004 0 - 2 ft	9/30/2004 2 - 4 ft	9/30/2004 4 - 5 ft	9/30/2004 6 - 8 ft	9/30/2004 8 - 9 ft
Aluminum	3520	5980	2520	2180	2030
Antimony	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.51)	ND (0.52)
Arsenic	5.3	5.4	3.2	3.6	4.2
Barium	75.9	21.1	7.1	6.5	7.1
Beryllium	0.29	0.046 J	ND (0.16)	ND (0.16)	ND (0.17)
Cadmium	29.8	ND (0.084)	0.11	0.10	0.14
Chromium	5.5	9.7	5.8	7.6	7.3
Cobalt	3.2	4.8	2.9	3.0	3.5
Copper	237	11.2	8.6	8.8	10.4
Cyanide, Total	1.6	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)
Iron	7980	10900	5950	6880	7710
Lead	43.5	5.7	3.6	3.8	4.3
Magnesium	2090	1410	21200	18900	15000
Manganese	284	348	255	273	304
Mercury	0.099 J	ND (0.084)	ND (0.081)	ND (0.081)	ND (0.084)
Nickel	19.9	10.1	7.0	8.2	9.3
Selenium	ND (0.42)	0.41 J	ND (0.41)	ND (0.41)	ND (0.42)
Silver	0.36 J	ND (0.42)	ND (0.41)	ND (0.41)	ND (0.42)
Thallium	0.58 J	0.44 J	0.85	0.89	1.1
Vanadium	9.7	14.4	7.0	7.6	8.0
Zinc	277	25.8	24.0	25.6	34.7

VZP004	9/8/2003 0 - 2 ft	9/8/2003 2 - 4 ft	9/8/2003 4 - 8 ft
Aluminum	-	9620	-
Antimony	-	ND (0.54)	-
Arsenic	-	6.2	-
Barium	-	35.4	-
Beryllium	-	0.34	-
Cadmium	-	0.17	-
Chromium	-	13.5	-
Cobalt	-	6.9	-
Copper	-	12.2	-
Cyanide, Total	ND (0.20)	ND (0.18)	ND (0.18)
Iron	-	15800	-
Lead	-	6.8	-
Magnesium	-	2240	-
Manganese	-	438	-
Mercury	-	0.041 J	-
Nickel	-	14.5	-
Selenium	-	ND (0.43)	-
Silver	-	ND (0.43)	-
Thallium	-	ND (0.86)	-
Vanadium	-	20.8	-
Zinc	-	34.2	-

VZP014	9/8/2003 0 - 4 ft	9/8/2003 8 - 10 ft
Aluminum	4210	-
Antimony	0.32 J	-
Arsenic	4.4	-
Barium	64.5	-
Beryllium	ND (0.19)	-
Cadmium	11600 J	-
Chromium	11.2	-
Cobalt	3.5	-
Copper	1290	-
Cyanide, Total	2.7	ND (0.18)
Iron	6700	-
Lead	114	-
Magnesium	2420	-
Manganese	240 J	-
Mercury	0.13	-
Nickel	128	-
Selenium	0.67	-
Silver	0.11 J	-
Thallium	0.54 J	-
Vanadium	11.4	-
Zinc	744	-

VZP002	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft
Cyanide, Total	ND (0.20)/ND (0.21)	ND (0.18)

VZP012	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft
Cyanide, Total	ND (0.19)	ND (0.18)

VZP022	9/8/2003 0 - 4 ft	9/8/2003 8 - 12 ft
Cyanide, Total	ND (0.19)	ND (0.18)/ND (0.18)

VZP019	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft	9/8/2003 8 - 12 ft
Aluminum	-	-	1280
Antimony	-	-	ND (0.57)
Arsenic	-	-	3.6
Barium	-	-	6.4
Beryllium	-	-	0.066 J
Cadmium	-	-	0.29
Chromium	-	-	2.6
Cobalt	-	-	2
Copper	-	-	7.7
Cyanide, Total	ND (0.18)	ND (0.18)	ND (0.19)
Iron	-	-	9540
Lead	-	-	2.5
Magnesium	-	-	19800
Manganese	-	-	293
Mercury	-	-	0.026 J
Nickel	-	-	5.1
Selenium	-	-	ND (0.45)
Silver	-	-	ND (0.45)
Thallium	-	-	ND (0.90)
Vanadium	-	-	6.1
Zinc	-	-	21.8

VZP021	9/8/2003 0 - 4 ft	9/8/2003 4 - 8 ft
Aluminum	-	2400
Antimony	-	ND (0.53)
Arsenic	-	4.9
Barium	-	14.1
Beryllium	-	0.084 J
Cadmium	-	0.33
Chromium	-	5.1
Cobalt	-	2.5
Copper	-	10.9
Cyanide, Total	ND (0.21)	ND (0.18)
Iron	-	6830
Lead	-	4.5
Magnesium	-	16000
Manganese	-	262
Mercury	-	0.032 J
Nickel	-	6.9
Selenium	-	ND (0.42)
Silver	-	ND (0.42)
Thallium	-	ND (0.85)
Vanadium	-	8.3
Zinc	-	23.6

N
W E
S
0 60 120 180 240
SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL SITE FEATURE
- VZP063 — GEOPROBE LOCATION SOIL, SOIL GAS AND/OR GROUNDWATER SAMPLE LOCATION
- SGS056 — SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATIONS
- L-5 — MANHOLE SAMPLING LOCATIONS

SAMPLE DATE
SAMPLE DEPTH

SAMPLE NAME

VZP014	9/8/2003 0 - 4 ft
Aluminum	4210
Cadmium	11600 J
Copper	1290
Magnesium	128

DATABOX UNITS: MG/KG

RED TEXT INDICATES THAT THE ANALYTE EXCEEDS THE CADMIUM PRELIMINARY REMEDIATION GOAL (PRG) OF 550 MG/KG. THE PRG IS THE PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.

HALEY & ALDRICH

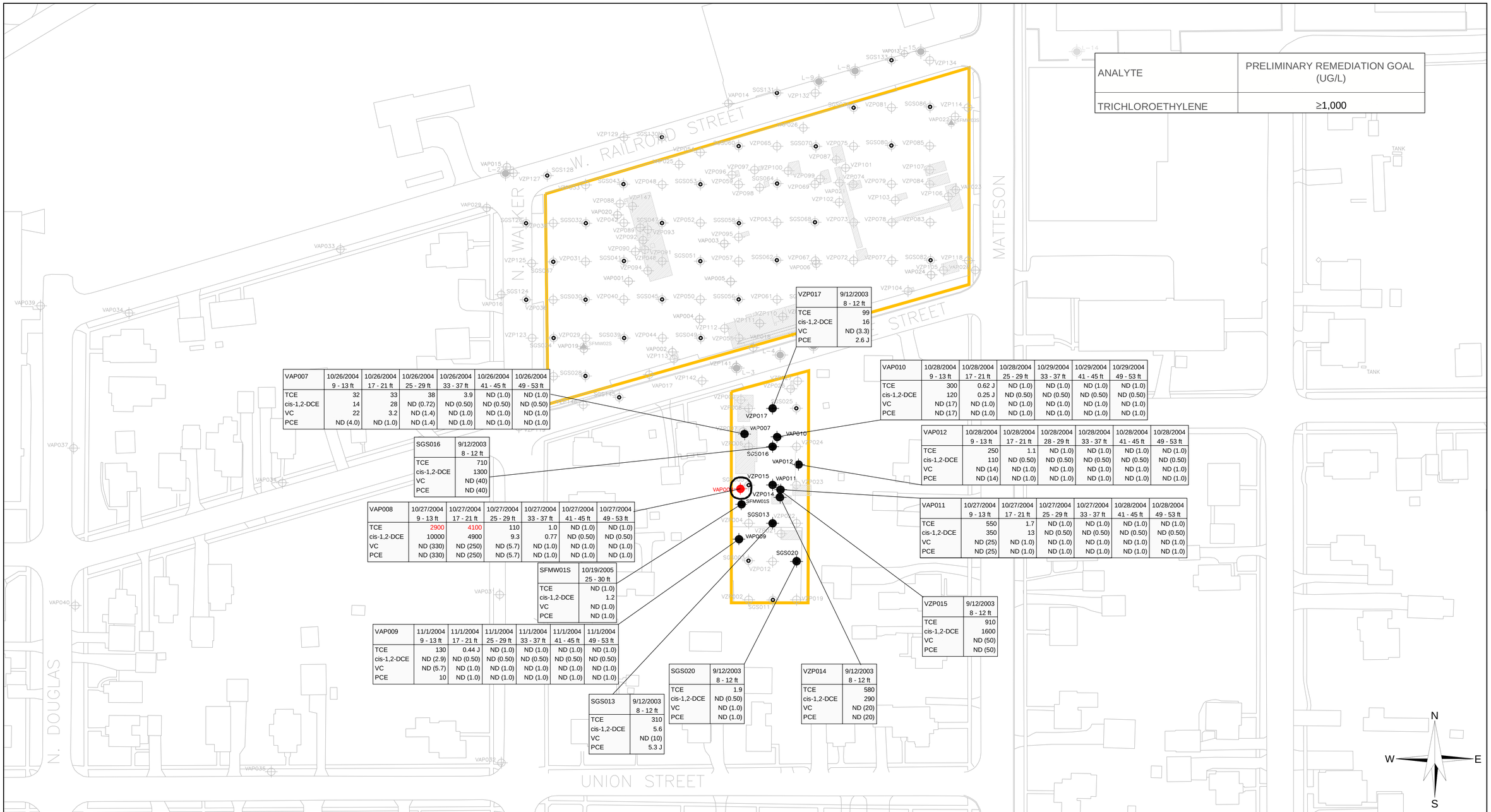
FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

METALS IN SOIL - AREAS EXCEEDING THE PRGs FOR FORMER ANNEX/CDF

SCALE: AS SHOWN
JUNE 2009

FIGURE 6

G:\GRAPHICS\PROJECTS\27080 - BRONSON\CAD\052-FEASIBILITY-STUDY\27080-052-0003-METALS SOIL ANNEX_D_V2_JUNE2008.DWG



ANALYTE	PRELIMINARY REMEDIATION GOAL (UG/L)
TRICHLOROETHYLENE	≥1,000

VZP017	9/12/2003 8 - 12 ft
TCE	99
cis-1,2-DCE	16
VC	ND (3.3)
PCE	2.6 J

VAP007	10/26/2004 9 - 13 ft	10/26/2004 17 - 21 ft	10/26/2004 25 - 29 ft	10/26/2004 33 - 37 ft	10/26/2004 41 - 45 ft	10/26/2004 49 - 53 ft
TCE	32	33	38	3.9	ND (1.0)	ND (1.0)
cis-1,2-DCE	14	28	ND (0.72)	ND (0.50)	ND (0.50)	ND (0.50)
VC	22	3.2	ND (1.4)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	ND (4.0)	ND (1.0)	ND (1.4)	ND (1.0)	ND (1.0)	ND (1.0)

VAP010	10/28/2004 9 - 13 ft	10/28/2004 17 - 21 ft	10/28/2004 25 - 29 ft	10/29/2004 33 - 37 ft	10/29/2004 41 - 45 ft	10/29/2004 49 - 53 ft
TCE	300	0.62 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-DCE	120	0.25 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
VC	ND (17)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	ND (17)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

SGS016	9/12/2003 8 - 12 ft
TCE	710
cis-1,2-DCE	1300
VC	ND (40)
PCE	ND (40)

VAP012	10/28/2004 9 - 13 ft	10/28/2004 17 - 21 ft	10/28/2004 28 - 29 ft	10/28/2004 33 - 37 ft	10/28/2004 41 - 45 ft	10/28/2004 49 - 53 ft
TCE	250	1.1	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-DCE	110	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
VC	ND (14)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	ND (14)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

VAP008	10/27/2004 9 - 13 ft	10/27/2004 17 - 21 ft	10/27/2004 25 - 29 ft	10/27/2004 33 - 37 ft	10/27/2004 41 - 45 ft	10/27/2004 49 - 53 ft
TCE	2900	4100	110	1.0	ND (1.0)	ND (1.0)
cis-1,2-DCE	10000	4900	9.3	0.77	ND (0.50)	ND (0.50)
VC	ND (330)	ND (250)	ND (5.7)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	ND (330)	ND (250)	ND (5.7)	ND (1.0)	ND (1.0)	ND (1.0)

VAP011	10/27/2004 9 - 13 ft	10/27/2004 17 - 21 ft	10/27/2004 25 - 29 ft	10/27/2004 33 - 37 ft	10/28/2004 41 - 45 ft	10/28/2004 49 - 53 ft
TCE	550	1.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-DCE	350	13	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
VC	ND (25)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	ND (25)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

SFMW01S	10/19/2005 25 - 30 ft
TCE	ND (1.0)
cis-1,2-DCE	1.2
VC	ND (1.0)
PCE	ND (1.0)

VZP015	9/12/2003 8 - 12 ft
TCE	910
cis-1,2-DCE	1600
VC	ND (50)
PCE	ND (50)

VAP009	11/1/2004 9 - 13 ft	11/1/2004 17 - 21 ft	11/1/2004 25 - 29 ft	11/1/2004 33 - 37 ft	11/1/2004 41 - 45 ft	11/1/2004 49 - 53 ft
TCE	130	0.44 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-DCE	ND (2.9)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
VC	ND (5.7)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCE	10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

SGS020	9/12/2003 8 - 12 ft
TCE	1.9
cis-1,2-DCE	ND (0.50)
VC	ND (1.0)
PCE	ND (1.0)

VZP014	9/12/2003 8 - 12 ft
TCE	580
cis-1,2-DCE	290
VC	ND (20)
PCE	ND (20)

SGS013	9/12/2003 8 - 12 ft
TCE	310
cis-1,2-DCE	5.6
VC	ND (10)
PCE	5.3 J

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL SITE FEATURE
- VZP006 — GEOPROBE LOCATION SOIL, SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATION
- SGS003 — SOIL GAS AND/OR GROUNDWATER SAMPLING LOCATIONS
- L-5 — MANHOLE SAMPLING LOCATIONS
- VZP014 — SAMPLING LOCATIONS EXCEEDING THE PRELIMINARY REMEDIATION GOAL

SAMPLE DATE
SAMPLE DEPTH

SAMPLE NAME

VZP014	9/12/2003 8 - 12 ft
TCE	580
cis-1,2-DCE	290
VC	ND (20)
PCE	ND (20)

DATABOX UNITS: UG/L

RED TEXT INDICATES THAT THE ANALYTE WAS DETECTED AT A CONCENTRATION EXCEEDING THE PRELIMINARY REMEDIATION GOAL.

0 50 100 150 200
SCALE IN FEET

NOTES:
ND (90) = NOT DETECTED (REPORTING LIMIT)
J = ESTIMATED ANALYTICAL RESULT
TRICHLOROETHYLENE = TCE
CIS-1,2-DICHLOROETHENE = CIS-1,2-DCE
VINYL CHLORIDE = VC
TETRACHLOROETHENE = PCE

HALEY & ALDRICH

FORMER SCOTT FETZER FACILITY
141 WEST RAILROAD STREET
BRONSON, MICHIGAN

VOCs IN GROUNDWATER - AREAS EXCEEDING THE PRGs FOR FORMER ANNEX/CDF

SCALE: AS SHOWN
JUNE 2009

FIGURE 7

G:\GRAPHICS\PROJECTS\27080 - BRONSON\CAD\052-FEASIBILITY-STUDY\27080-052-0005-GW-ANNEX_JUNE2008.DWG