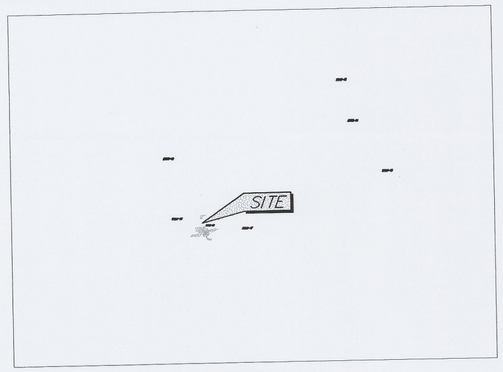
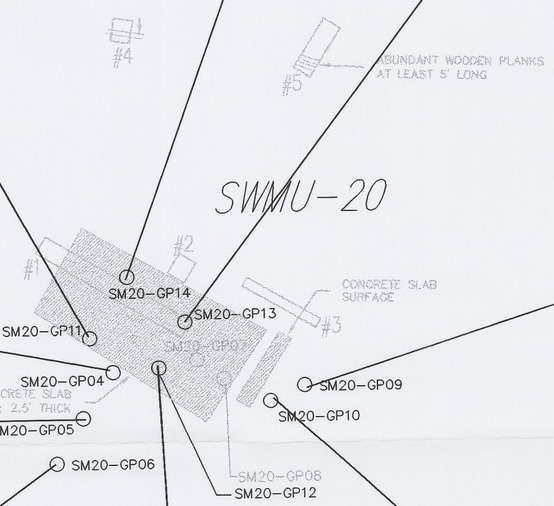


SITE PLAN
1"=600'

LEGEND

- APPROXIMATE EXTENT OF SOLID WASTE MANAGEMENT UNIT (SWMU)
- SURVEYED GEOPROBE LOCATION INSTALLED IN 2004
- GEOPROBE LOCATION NOT SAMPLED (REFUSAL AT 1 FT BGS)
- PHASE I TEST PIT LOCATION
- **5.51** BOLD VALUE INDICATES RESULT EXCEEDS RESIDENTIAL RBC
- **5.51** BOLD AND SHADED VALUE INDICATES RESULT EXCEEDS RESIDENTIAL & INDUSTRIAL RBC
- 5.51 BOXED VALUE INDICATES RESULT EXCEEDS ECO-SCREENING CRITERIA
- **5.51** INDICATES RESULT EXCEEDS RESIDENTIAL, INDUSTRIAL RBC & ECO-SCREENING CRITERIA



SM20-GP11	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP11-01 11/10/2004 5-6 ft
Metals (mg/kg)				
ARSENIC	4.3E-01	1.9E+00	10	**63.4J**
VANADIUM	7.8E+00	1.0E+02	2	**50.8**

SM20-GP14	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP14-01 11/10/2004 5-6 ft
Metals (mg/kg)				
ARSENIC	4.3E-01	1.9E+00	10	**19J**
VANADIUM	7.8E+00	1.0E+02	2	**18.2**

SM20-GP13	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP13-01 11/10/2004 5-6 ft
Metals (mg/kg)				
ARSENIC	4.3E-01	1.9E+00	10	**11.5J**
THALLIUM	5.5E-01	7.2E+00	1	**2.08J**

SM20-GP04	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP04-01 11/3/2004 3-4 ft	SM20-GP04-01 11/3/2004 5-6 ft
Metals (mg/kg)					
ARSENIC	4.3E-01	1.9E+00	10	**26.7J**	**54.3J**
VANADIUM	7.8E+00	1.0E+02	2	**20.1**	**35.1**

SM20-GP05	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP05-01 11/3/2004 1.5-2.5 ft	SM20-GP05-01 11/3/2004 3-4 ft	SM20-GP05-01 11/3/2004 5-6 ft
ARSENIC	4.3E-01	1.9E+00	10	**2.22J**	**27.3J**	**48.4J**
BORON	1.6E+03	2.0E+04	0.5	7.02J	53.1J	99.4J
CHROMIUM*	1.2E+04	1.5E+05	0.4	5.59	39	71
MERCURY*	2.3E+00	3.1E+01	0.1	0.226J	0.575J	0.691J
VANADIUM	7.8E+00	1.0E+02	2	3.09	**22.3**	**45.9**

SM20-GP09	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP09-01 11/3/2004 1-2 ft	SM20-GP09-01 11/3/2004 5-6 ft
Metals (mg/kg)					
ARSENIC	4.3E-01	1.9E+00	10	**13.3J**	**22.5J**
BORON	1.6E+03	2.0E+04	0.5	13.7J	19.2J
CHROMIUM*	1.2E+04	1.5E+05	0.4	32.5	32.2
COPPER	3.1E+02	4.1E+03	50	59.3J	203J
LEAD*	4.0E+02	7.5E+02	50	281J	267J
MERCURY*	2.3E+00	3.1E+01	0.1	0.313J	2.15J
THALLIUM	5.5E-01	7.2E+00	1	2.48L	**3.6L**
VANADIUM	7.8E+00	1.0E+02	2	**33.1**	**36.2**
ZINC	2.3E+03	3.1E+04	50	119K	137K

SM20-GP06	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP06-01 11/3/2004 1-2 ft
Metals (mg/kg)				
ARSENIC	4.3E-01	1.9E+00	10	**4.63J**
BORON	1.6E+03	2.0E+04	0.5	35.7J
CHROMIUM*	1.2E+04	1.5E+05	0.4	10.2
MERCURY*	2.3E+00	3.1E+01	0.1	0.363J
VANADIUM	7.8E+00	1.0E+02	2	**11**

SM20-GP12	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP12-01 11/10/2004 5-6 ft
Metals (mg/kg)				
ANTIMONY	3.1E+00	4.1E+01	5	**3.49J**
ARSENIC	4.3E-01	1.9E+00	10	**46.4J**
THALLIUM	5.5E-01	7.2E+00	1	**2.44J**
VANADIUM	7.8E+00	1.0E+02	2	**46.7**

SM20-GP10	RBC Residential	RBC Industrial	Ecological Screening Values	SM20-GP10-0 11/3/2004 1-2 ft	SM20-GP10-01 11/3/2004 5-6 ft	SM20-GP10-01 11/3/2004 10-11 ft
Metals (mg/kg)						
ARSENIC	4.3E-01	1.9E+00	10	**19.2J**	**23.7J**	**4.33J**
BARIUM	5.5E+02	7.2E+03	500	503L	**572L**	88.4L
BORON	1.6E+03	2.0E+04	0.5	20.7J	25.4J	8.07L
COPPER	3.1E+02	4.1E+03	50	93.3J	72.2J	13.4J
LEAD*	4.0E+02	7.5E+02	50	223J	219J	14.9J
MERCURY*	2.3E+00	3.1E+01	0.1	0.574J	**2.46J**	0.118J
THALLIUM	5.5E-01	7.2E+00	1	**2.42L**	*1.176L*	**1.27J**
VANADIUM	7.8E+00	1.0E+02	2	**32.2**	**39.9**	**30.5**
ZINC	2.3E+03	3.1E+04	50	165K	169K	47.5K

Notes:
1. RBC - US EPA Region III Risk-Based Concentration for soil (October 2004). The criteria for both the industrial and residential settings are presented.
2. Eco Screening - US EPA Region III Ecological Screening Values as provided by R. Fish, applied to samples collected from 0-2' below ground surface.
3. NS - Indicates no established criteria.
4. Analytical results are presented for all compounds detected in samples from a particular soil boring location.

Qualifiers
U - Analyte was not detected above the indicated detection limit.
J - The reported concentration for this value may not be accurate or precise.
UJ - Analyte was not detected, the indicated detection limit may not be accurate or precise.
L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.
UL - Analyte was not detected, the indicated detection limit may be biased low.
B - Not detected substantially above the levels reported in the field or laboratory blanks.
R - Result is rejected.
D - Compound quantitated on a diluted sample.
E - Concentration exceeds the calibration range of the instrument.
K - Analyte present. Reported value may be biased high.

Prepared/Date: MS 11/2005
Checked/Date: DJN 11/2005

SOURCE:

COMPILED BY PRO MAPS OF MORRISTOWN, NJ FROM AERIAL PHOTOGRAPHY FLOWN BY KEYSTONE AERIAL PHOTOGRAPHS OF PHILADELPHIA, PA. FLOWN AT 1"=400' USING DATUM OF NAD 83 SOUTH ZONE – PA AND NAVD 88. SURVEY SUPPORT BY JAMES M. STEWART OF PHILADELPHIA, PA.

north

0 7.5 15 30
SCALE: FEET
1"=30'

Honeywell

DELAWARE VALLEY WORKS FACILITY
Route 13 (Delaware County)
Claymont, DE

MACTEC

SOIL SAMPLE ANALYTICAL RESULTS FOR METALS FOR SWMU 20

Project 3485-05-0043

Figure 15