N83447.AR.000407
NAS FORT WORTH
5090.3a

LETTER REGARDING SUBMITTAL OF MAPS TO BE USED FOR UPCOMING MEETING SHOWING GROUNDWATER SAMPLING AT VARIOUS SOLID WASTE MANAGEMENT UNITS NAS FORT WORTH TX

12/14/1998

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE

File: 17G
P.W.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 444

File: P.W. 17A-72

444

444 1

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE TEXAS

14 December, 1998

MEMORANDUM FOR RAY RISNER (TNRCC)

FROM: HQ AFCEE/ERD
3207 North Road
Brooks AFB, TX 78235

SUBJECT: Naval Air Station Joint Reserve Base
Formerly Carswell AFB
TNRCC Solid Waste Registration No. 65004
EPA ID No. TX0571924042
Transmittal of Maps for 17 Dec 98 Meeting

Dear Mr. Risner,

Attached are a series of maps which summarize the initial round of soil and groundwater sampling at six Solid Waste Management Units (SWMUs) at NAS Fort Worth JRB, Texas. These sites include SWMU 17 (Landfill 7), SWMU 26 (Landfill 3), SWMU 27 (Landfill 10), SWMU 29 (Landfill 2), SWMU 30 (Landfill 9), and SWMU 62 (Landfill 6). Attached to the set of maps is also a copy of a water level elevation map showing the location of the SWMUs. The maps will be used as part of presentation material for our meeting this Thursday.

The maps summarizing the groundwater chemical concentration data do not have formal title blocks as these maps were taken from a Power Point presentation given at the September BCT meeting. The data presented on the maps are concentrations above the Method Detection Limit (MDL). Soil data are summarized on two maps for each SWMU. The first map presents the data detected above background or the minimum PQL (a.ka. Method Quantitation Limit (MQL)). The second map for each SWMU presents the locations proposed for additional sampling to delineate to Risk Reduction Standard One (RRS1) levels. This second set of maps, in some cases, also present proposed locations to evaluate if site specific conditions support a modification to the RRS2 value based on Synthetic Precipitate Leaching Procedure (SPLP) testing. SWMU 27 does not have a proposed location map attached, since the

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results from the initial sampling show the soil has been delineated to RRS1 levels.

Should you have any questions regarding this letter, please contact me at (210) 536-5290.

Sincerely,

Joseph R. Dunkle
Remedial Program Manager
NAS Ft. Worth JRB

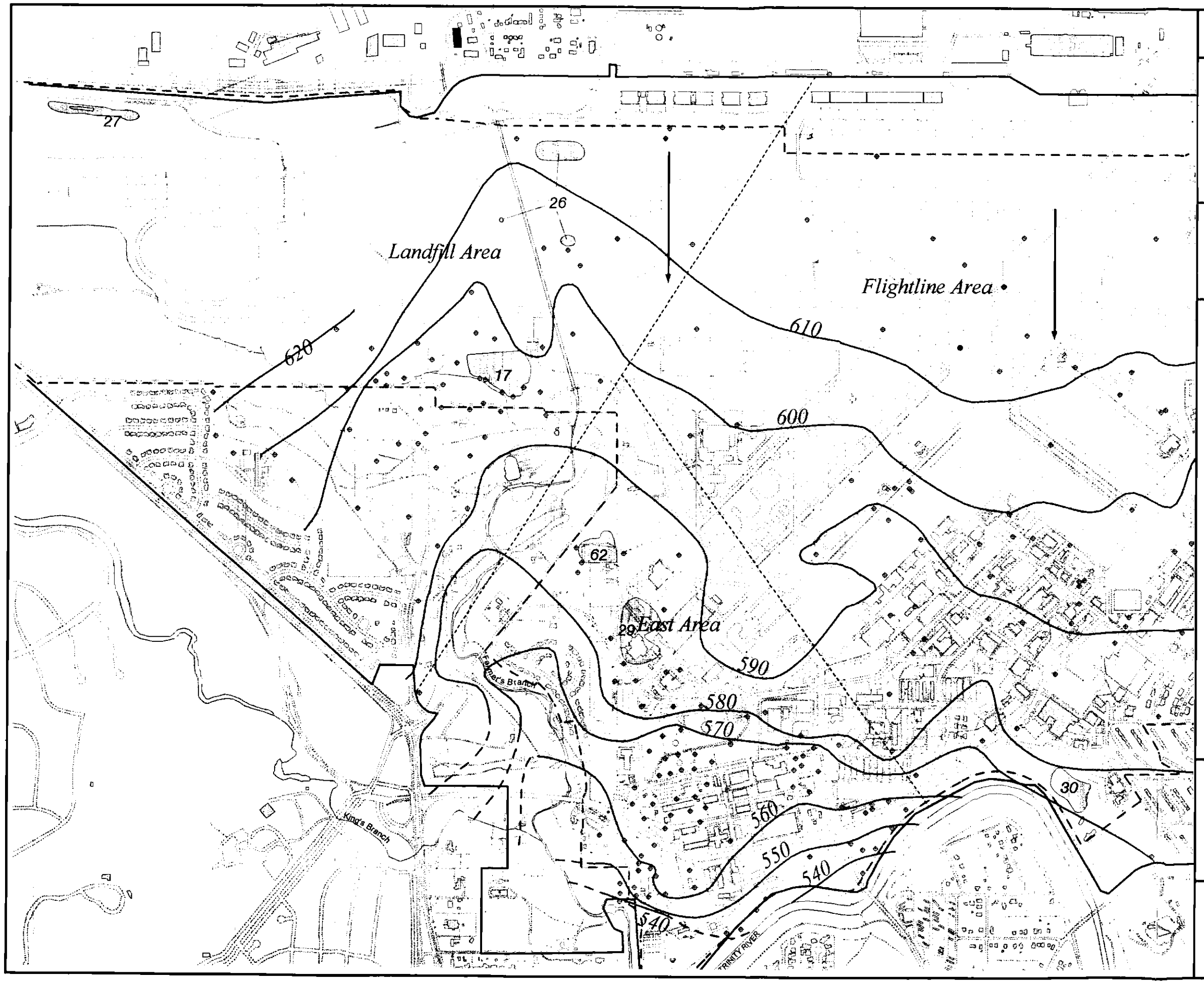
Atch
SWMU Data Maps

cc:

EPA Region VI
Mr. Gary W. Miller
1445 Ross Avenue, Suite 1200
Dallas TX 75202-2733

Mr. Alvin Brown
AFBCA/ROL Bergstrom AFB
3711 Outlaw Country Drive
Austin, TX 78719-2557

HQ AFCEE/ERD
Mr. Mike Dodyk
P.O. Box 27008
Fort Worth TX 76127-0008



HydroGeoLogic, Inc.—Draft Technical Memorandum RFI Investigation
NAS Fort Worth JRB, Texas

Groundwater Flow July 1998 and Locations of SWMUs 17, 26, 27, 29, 30, and 62

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- 600 — Groundwater Elevation Contour (Feet Above Mean Sea Level)
- Generalized Groundwater Flow
- Groundwater Management Areas
- 26 — Solid Waste Management Unit (SWMU)

N

0 500 1000 2000
SCALE IN FEET

HYDRO GeoLogic INC.

Filename: AFC001/05CEA/swmu_gwflow.apr
Project: AFC001-05CEA
Created: 10/09/98 nzehms
Revised: 12/14/98 jb
Map Source: HydroGeoLogic, Inc GIS Database

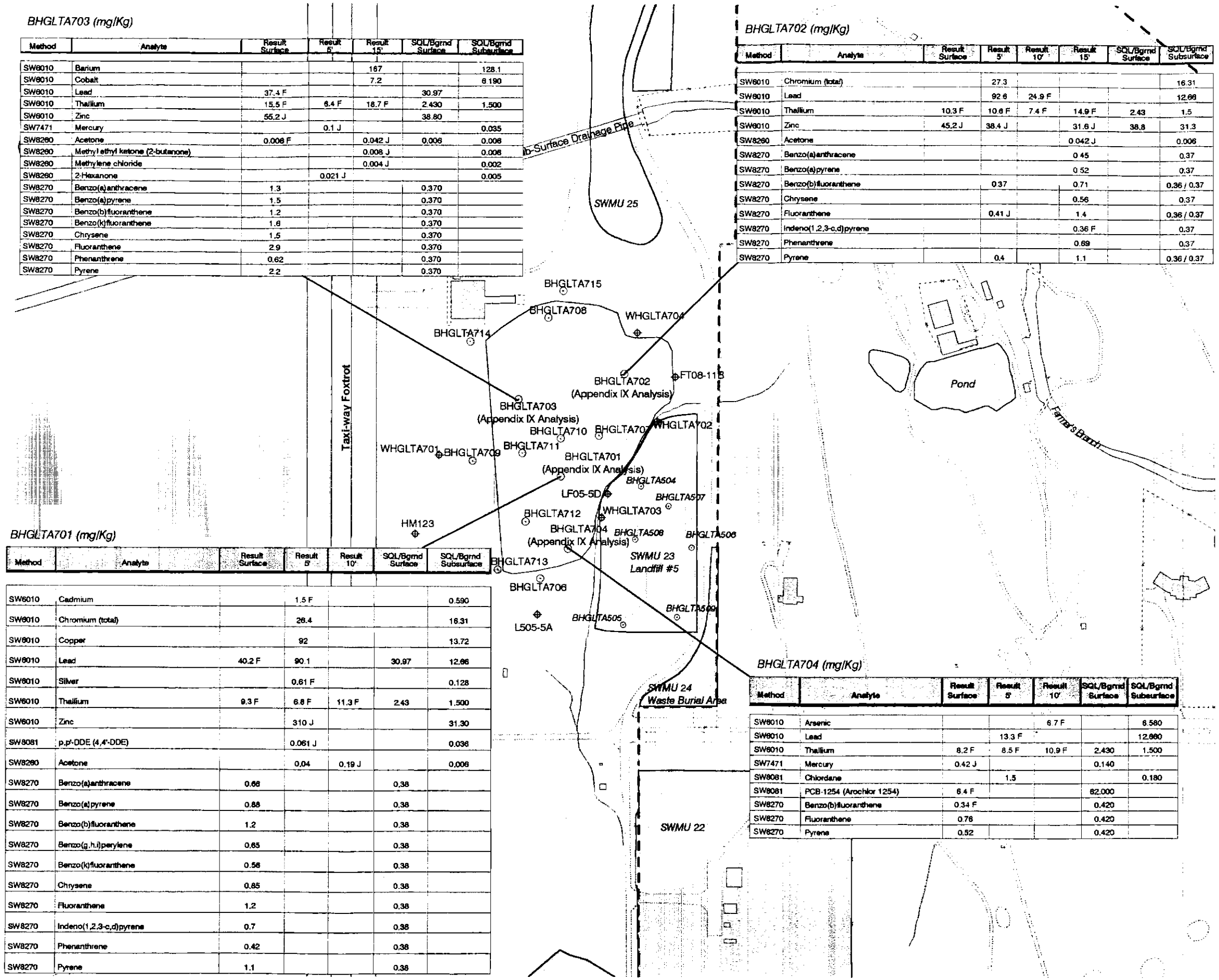
HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.1

Landfill 7/SWMU 17

Soil Analytical Concentrations Above Background or Method Quantitation Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas



BHGLTA703 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 15'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Barium			167		128.1
SW6010	Cobalt			7.2		8.190
SW6010	Lead	37.4 F			30.97	
SW6010	Thallium	15.5 F	6.4 F	18.7 F	2.430	1.500
SW6010	Zinc	55.2 J			38.80	
SW7471	Mercury		0.1 J			0.035
SW8260	Acetone	0.006 F		0.042 J	0.006	0.006
SW8260	Methyl ethyl ketone (2-butanone)			0.008 J		0.006
SW8260	Methylene chloride			0.004 J		0.002
SW8260	2-Hexanone		0.021 J			0.005
SW8270	Benzo(a)anthracene	1.3			0.370	
SW8270	Benzo(a)pyrene	1.5			0.370	
SW8270	Benzo(b)fluoranthene	1.2			0.370	
SW8270	Benzo(k)fluoranthene	1.6			0.370	
SW8270	Chrysene	1.5			0.370	
SW8270	Fluoranthene	2.9			0.370	
SW8270	Phenanthrene	0.62			0.370	
SW8270	Pyrene	2.2			0.370	

BHGLTA702 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Chromium (total)		27.3				16.31
SW6010	Lead		92.6	24.9 F			12.66
SW6010	Thallium	10.3 F	10.6 F	7.4 F	14.9 F	2.43	1.5
SW6010	Zinc	45.2 J	38.4 J		31.6 J	38.8	31.3
SW8260	Acetone				0.042 J		0.006
SW8270	Benzo(a)anthracene				0.45		0.37
SW8270	Benzo(a)pyrene				0.52		0.37
SW8270	Benzo(b)fluoranthene		0.37		0.71		0.36 / 0.37
SW8270	Chrysene				0.56		0.37
SW8270	Fluoranthene		0.41 J		1.4		0.36 / 0.37
SW8270	Indeno(1,2,3-c,d)pyrene				0.36 F		0.37
SW8270	Phenanthrene				0.69		0.37
SW8270	Pyrene		0.4		1.1		0.36 / 0.37

BHGLTA701 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Cadmium		1.5 F			0.590
SW6010	Chromium (total)		26.4			16.31
SW6010	Copper		92			13.72
SW6010	Lead	40.2 F	90.1		30.97	12.66
SW6010	Silver		0.61 F			0.128
SW6010	Thallium	9.3 F	6.8 F	11.3 F	2.43	1.500
SW6010	Zinc		310 J			31.30
SW8081	p,p'-DDE (4,4'-DDE)		0.061 J			0.036
SW8260	Acetone		0.04	0.19 J		0.006
SW8270	Benzo(a)anthracene	0.66			0.38	
SW8270	Benzo(a)pyrene	0.88			0.38	
SW8270	Benzo(b)fluoranthene	1.2			0.38	
SW8270	Benzo(g,h,i)perylene	0.65			0.38	
SW8270	Benzo(k)fluoranthene	0.56			0.38	
SW8270	Chrysene	0.85			0.38	
SW8270	Fluoranthene	1.2			0.38	
SW8270	Indeno(1,2,3-c,d)pyrene	0.7			0.38	
SW8270	Phenanthrene	0.42			0.38	
SW8270	Pyrene	1.1			0.38	

BHGLTA704 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Arsenic			6.7 F		6.580
SW6010	Lead		13.3 F			12.660
SW6010	Thallium	8.2 F	8.5 F	10.9 F	2.430	1.500
SW7471	Mercury	0.42 J			0.140	
SW8081	Chlordane		1.5			0.180
SW8081	PCB-1254 (Arochlor 1254)	6.4 F			62.000	
SW8270	Benzo(b)fluoranthene	0.34 F			0.420	
SW8270	Fluoranthene	0.76			0.420	
SW8270	Pyrene	0.52			0.420	

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA211 — Borehole Location
- BHGLTA202 — Borehole/Piezometer Location
- GMI-22-07M — Monitoring Well Location

NOTES:
J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgrnd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

100 0 100 200 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf7_combined.apr
Created: 10/09/98 mzehms
Revised: 12/06/98 jdf
Map Source: HydroGeoLogic, Inc.—GIS Database

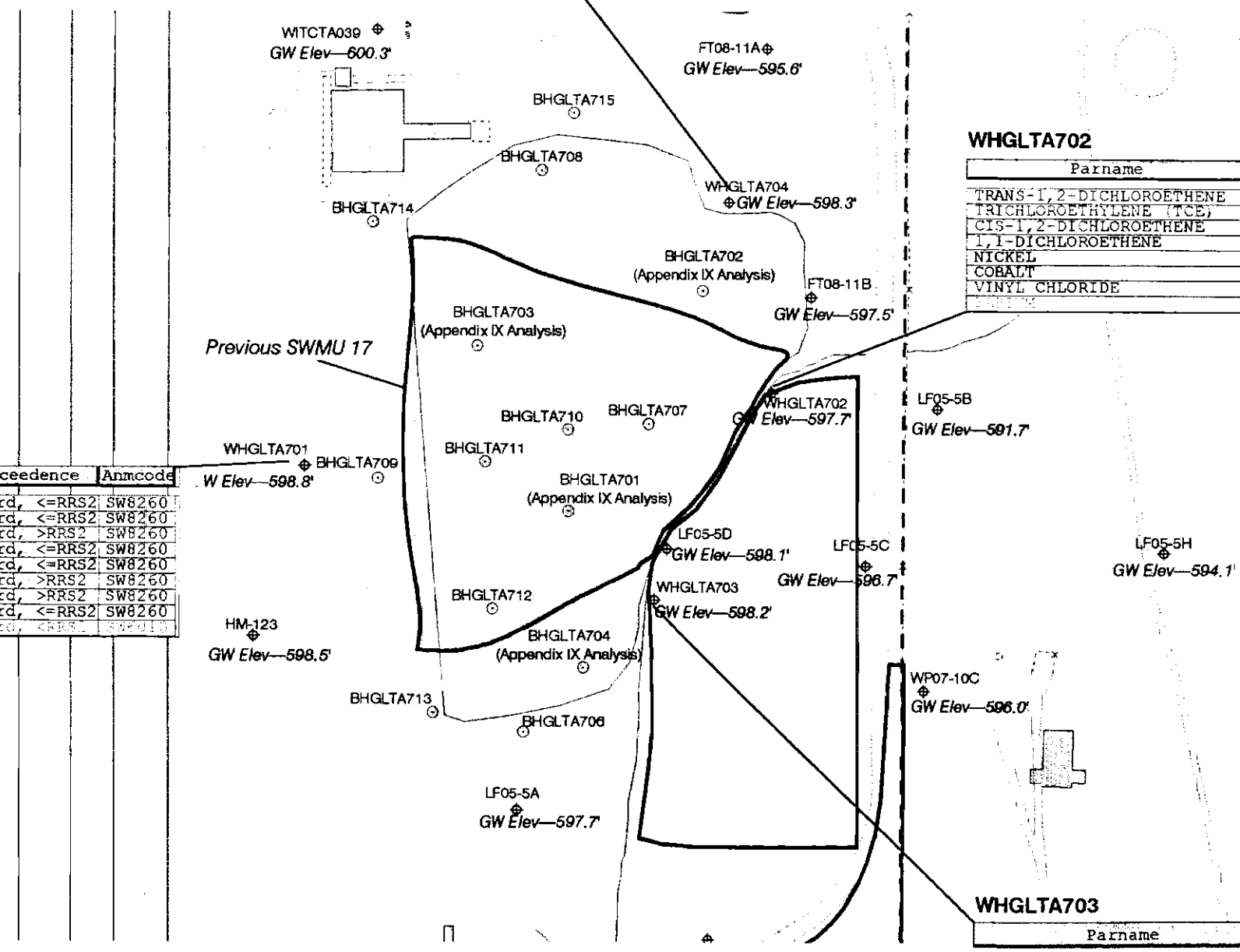
HYDRO GeoLogic INC.

LANDFILL #7/ SWMU 17

Concentrations in µg/L

WHGLTA704

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
VINYL CHLORIDE	0.003	0.000	0.002	>Bkgrd, >RRS2	SW8260
BENZENE	0.004	0.000	0.005	>Bkgrd, <=RRS2	SW8260
CIS-1,2-DICHLOROETHENE	0.033	0.000	0.070	>Bkgrd, <=RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.006	0.000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.013	0.000	0.005	>Bkgrd, >RRS2	SW8260
NAPHTHALENE	0.006 B	0.000	1.500	>Bkgrd, <RRS2	SW8270
2-METHYLNAPHTHALENE	0.003 B	0.000	1.500	>Bkgrd, <RRS2	SW8270
BARIUM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



WHGLTA702

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
TRANS-1,2-DICHLOROETHENE	0.017	0.0000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.015	0.0000	0.005	>Bkgrd, >RRS2	SW8260
CIS-1,2-DICHLOROETHENE	0.22 D	0.0000	0.070	>Bkgrd, >RRS2	SW8260
1,1-DICHLOROETHENE	0.0009	0.0000	0.007	>Bkgrd, <=RRS2	SW8260
NICKEL	0.083 B	0.0204	2.200	>Bkgrd, <=RRS2	SW6010
COBALT	0.0104 B	0.0089	2.200	>Bkgrd, <=RRS2	SW6010
VINYL CHLORIDE	0.013	0.0000	0.002	>Bkgrd, >RRS2	SW8260

WHGLTA701

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CHLOROFORM	0.001	0.000	0.100	>Bkgrd, <=RRS2	SW8260
1,1-DICHLOROETHANE	0.0007	0.000	3.700	>Bkgrd, <=RRS2	SW8260
CIS-1,2-DICHLOROETHENE	0.76 D	0.000	0.070	>Bkgrd, >RRS2	SW8260
TETRACHLOROETHYLENE(PCE)	0.0006	0.000	0.005	>Bkgrd, <=RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.039	0.000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	3.3 D	0.000	0.005	>Bkgrd, >RRS2	SW8260
VINYL CHLORIDE	0.016	0.000	0.002	>Bkgrd, >RRS2	SW8260
1,1-DICHLOROETHENE	0.003	0.000	0.007	>Bkgrd, <=RRS2	SW8260
BARIUM	0.084	0.58	2.000	>Bkgrd, <RRS2	SW6010

WHGLTA703

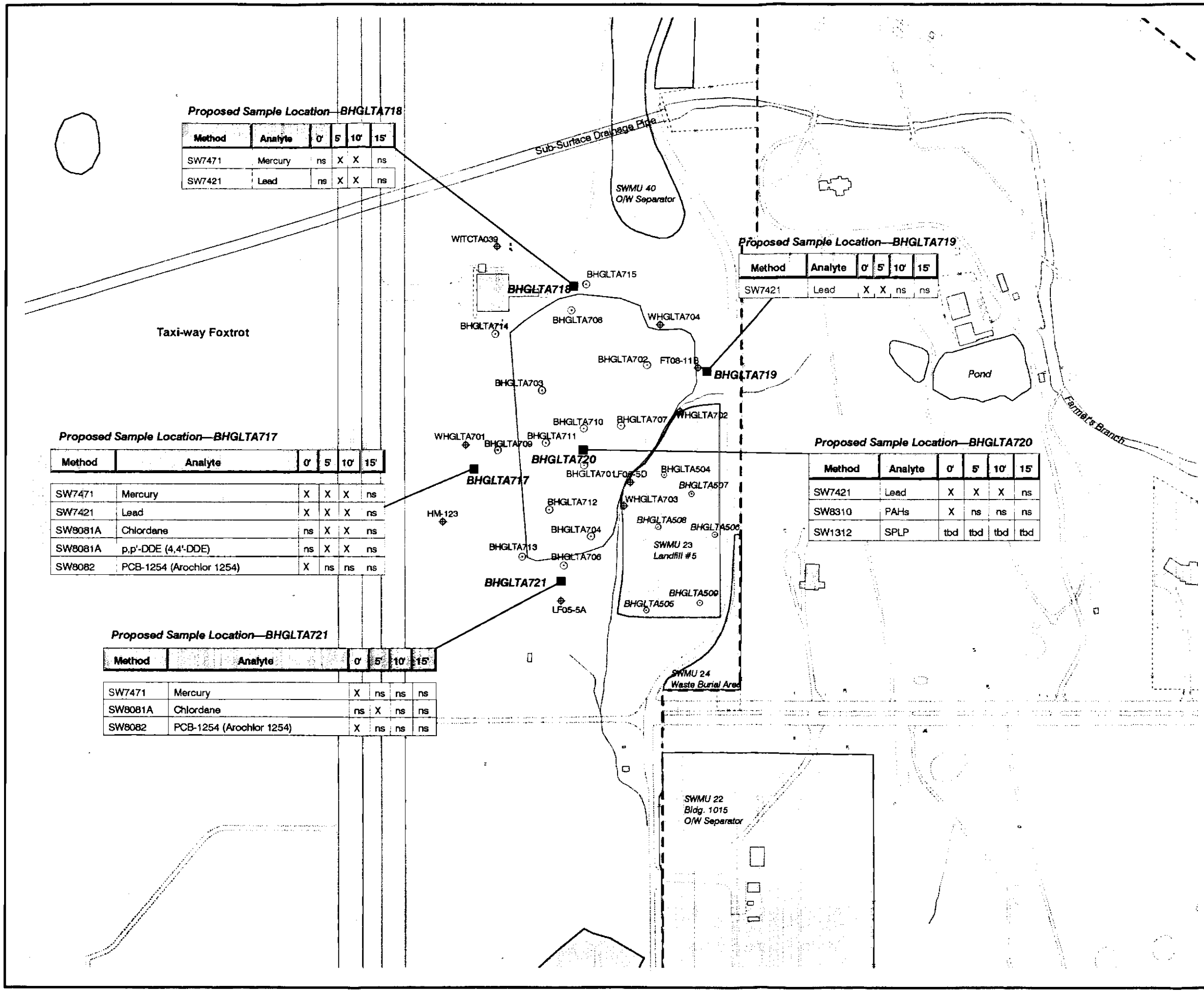
Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
COBALT	0.0106 B	0.0089	2.200	>Bkgrd, <=RRS2	SW6010
CHLOROBENZENE	0.0006	0.0000	0.100	>Bkgrd, <=RRS2	SW8260
CIS-1,2-DICHLOROETHENE	0.031	0.0000	0.070	>Bkgrd, <=RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.002	0.0000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.15 D	0.0000	0.005	>Bkgrd, >RRS2	SW8260
VINYL CHLORIDE	0.002	0.0000	0.002	>Bkgrd, <=RRS2	SW8260
BARIUM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

100 0 100 200 Feet

HYDRO GeoLogic INC.

N

Created: nzahms 06/22/98
Revised: jb 12/11/98
GIS Lab. HydroGeoLogic, Inc.
Project No.: AFC001-05CEA
File No.: AFC001\05CEA_BACKUP\LANDFILL.APR



Proposed Sample Location—BHGLTA718

Method	Analyte	0'	5'	10'	15'
SW7471	Mercury	ns	X	X	ns
SW7421	Lead	ns	X	X	ns

Proposed Sample Location—BHGLTA719

Method	Analyte	0'	5'	10'	15'
SW7421	Lead	X	X	ns	ns

Proposed Sample Location—BHGLTA717

Method	Analyte	0'	5'	10'	15'
SW7471	Mercury	X	X	X	ns
SW7421	Lead	X	X	X	ns
SW8081A	Chlordane	ns	X	X	ns
SW8081A	p,p'-DDE (4,4'-DDE)	ns	X	X	ns
SW8082	PCB-1254 (Arochlor 1254)	X	ns	ns	ns

Proposed Sample Location—BHGLTA720

Method	Analyte	0'	5'	10'	15'
SW7421	Lead	X	X	X	ns
SW8310	PAHs	X	ns	ns	ns
SW1312	SPLP	tbd	tbd	tbd	tbd

Proposed Sample Location—BHGLTA721

Method	Analyte	0'	5'	10'	15'
SW7471	Mercury	X	ns	ns	ns
SW8081A	Chlordane	ns	X	ns	ns
SW8082	PCB-1254 (Arochlor 1254)	X	ns	ns	ns

HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.2

Landfill 7/SWMU 17
Proposed Sampling Locations

Sampling Intervals and Analytical Methods

Air Force Center For
Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA621 — Proposed Sampling Location
- BHGLTA211 — Existing Borehole Location
- BHGLTA202 — Existing Borehole/Piezometer Location
- GMI-22-07M — Existing Monitoring Well Location

NOTES:

X—Proposed sample interval
ns—no sample
tbd—to be determined (based on 1st round analytical results)

N

125 0 125 250 Feet
Scale in feet

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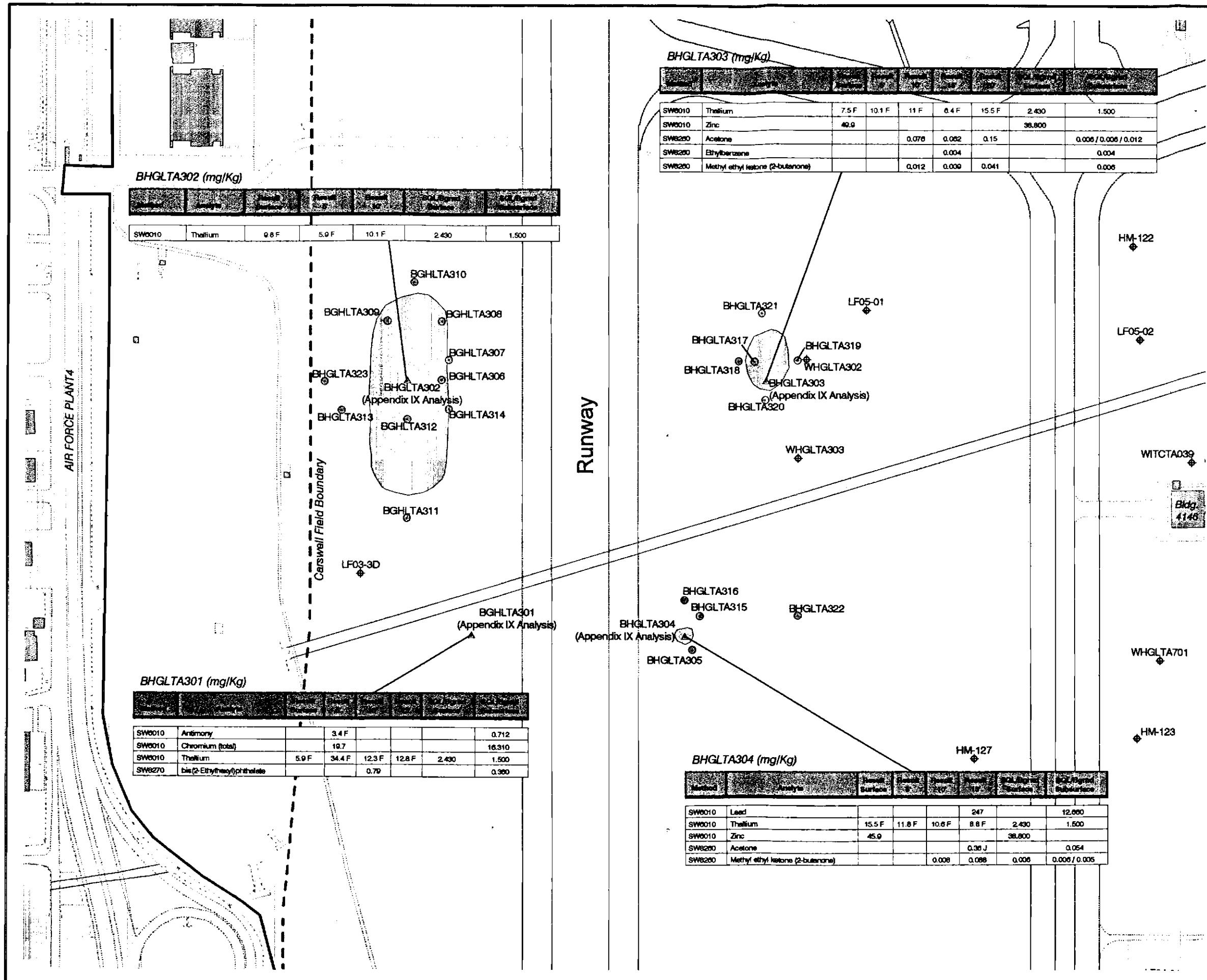
Filename: 05CEA/REPORT/lf7_proposed.apr
Created: 12/01/98 nzehms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.



SW6010	Thallium	9.8 F	5.9 F	10.1 F	2.430	1.500	

SW6010	Thallium	7.5 F	10.1 F	11 F	6.4 F	15.5 F	2.430	1.500
SW6010	Zinc	49.9					38.800	
SW8260	Acetone			0.076	0.062	0.15		0.006 / 0.006 / 0.012
SW8260	Ethylbenzene				0.004			0.004
SW8260	Methyl ethyl ketone (2-butanone)			0.012	0.009	0.041		0.006

SW6010	Antimony		3.4 F				0.712
SW6010	Chromium (total)		19.7				16.310
SW6010	Thallium	5.9 F	34.4 F	12.3 F	12.8 F	2.430	1.500
SW8270	bis(2-Ethylhexyl)phthalate			0.79			0.360

Method	Analyte	Surface				Surface	Subsurface
SW6010	Lead				247		12,660
SW6010	Thallium	15.5 F	11.8 F	10.6 F	8.8 F	2.430	1.500
SW6010	Zinc	45.9				38.800	
SW8260	Acetone				0.36 J		0.054
SW8260	Methyl ethyl ketone (2-butanone)			0.009	0.088	0.006	0.006 / 0.005

HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.3

Landfill 3/SWMU 26

Soil Analytical Concentrations Above Background or Method Quantitation Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA211 — Borehole Location
- BHGLTA202 — Borehole/Piezometer Location
- GMI-22-07M — Monitoring Well Location

NOTES:
J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgrnd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

125 0 125 250 Feet

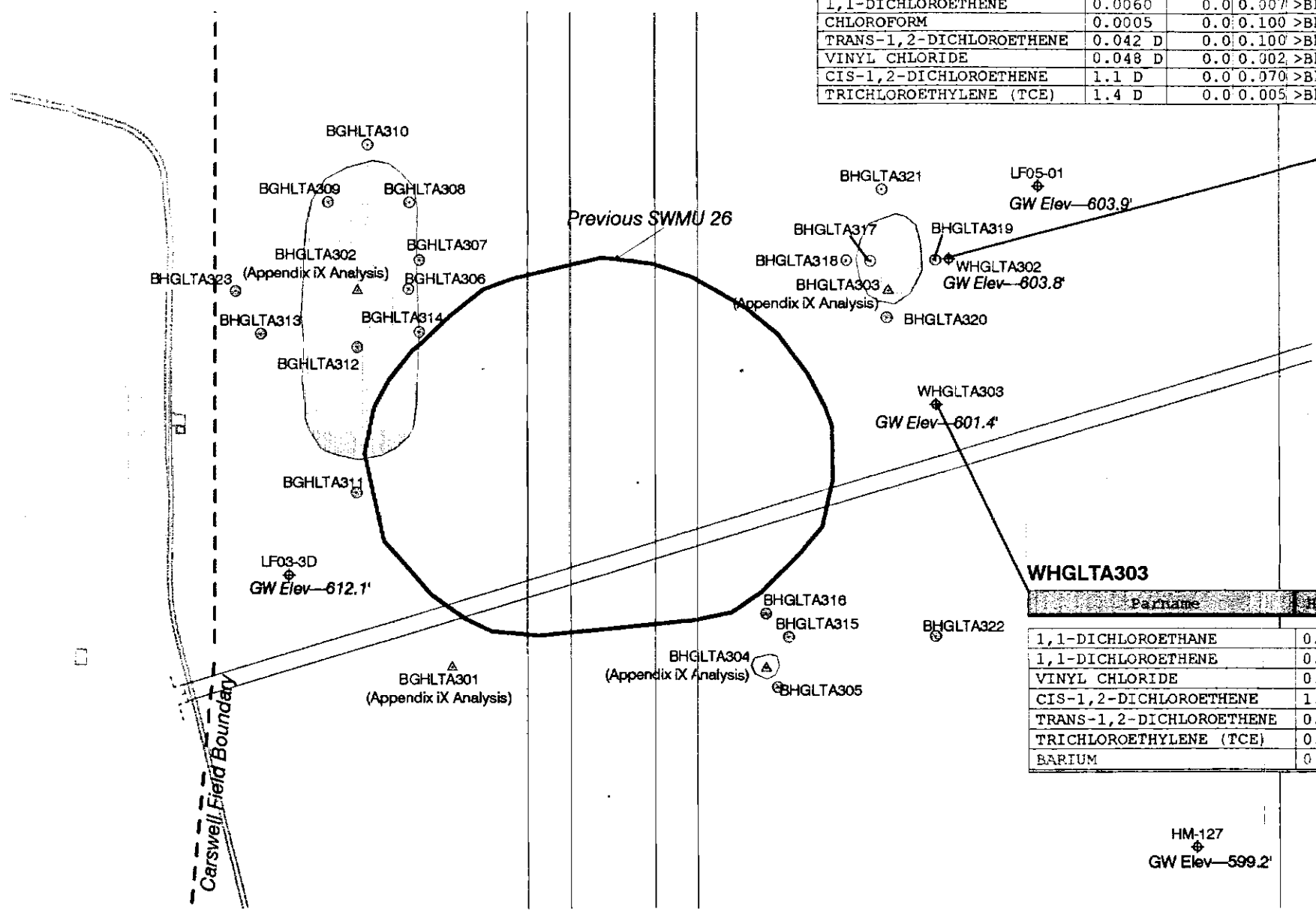
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf3_combined.apr
Created: 10/09/98/98 nzhms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.

LANDFILL #3/ SWMU 26

Concentrations in µg/L



WHGLTA302

Parname	Hglvalu	Bgrnd	Rrs2	Exceedence	Anmcode
1,1-DICHLOROETHANE	0.0010	0.0	3.700	>Bkgrd, <=RRS2	SW8260
1,1-DICHLOROETHENE	0.0060	0.0	0.007	>Bkgrd, <=RRS2	SW8260
CHLOROFORM	0.0005	0.0	0.100	>Bkgrd, <=RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.042 D	0.0	0.100	>Bkgrd, <=RRS2	SW8260
VINYL CHLORIDE	0.048 D	0.0	0.002	>Bkgrd, >RRS2	SW8260
CIS-1,2-DICHLOROETHENE	1.1 D	0.0	0.070	>Bkgrd, >RRS2	SW8260
TRICHLOROETHYLENE (TCE)	1.4 D	0.0	0.005	>Bkgrd, >RRS2	SW8260

WHGLTA303

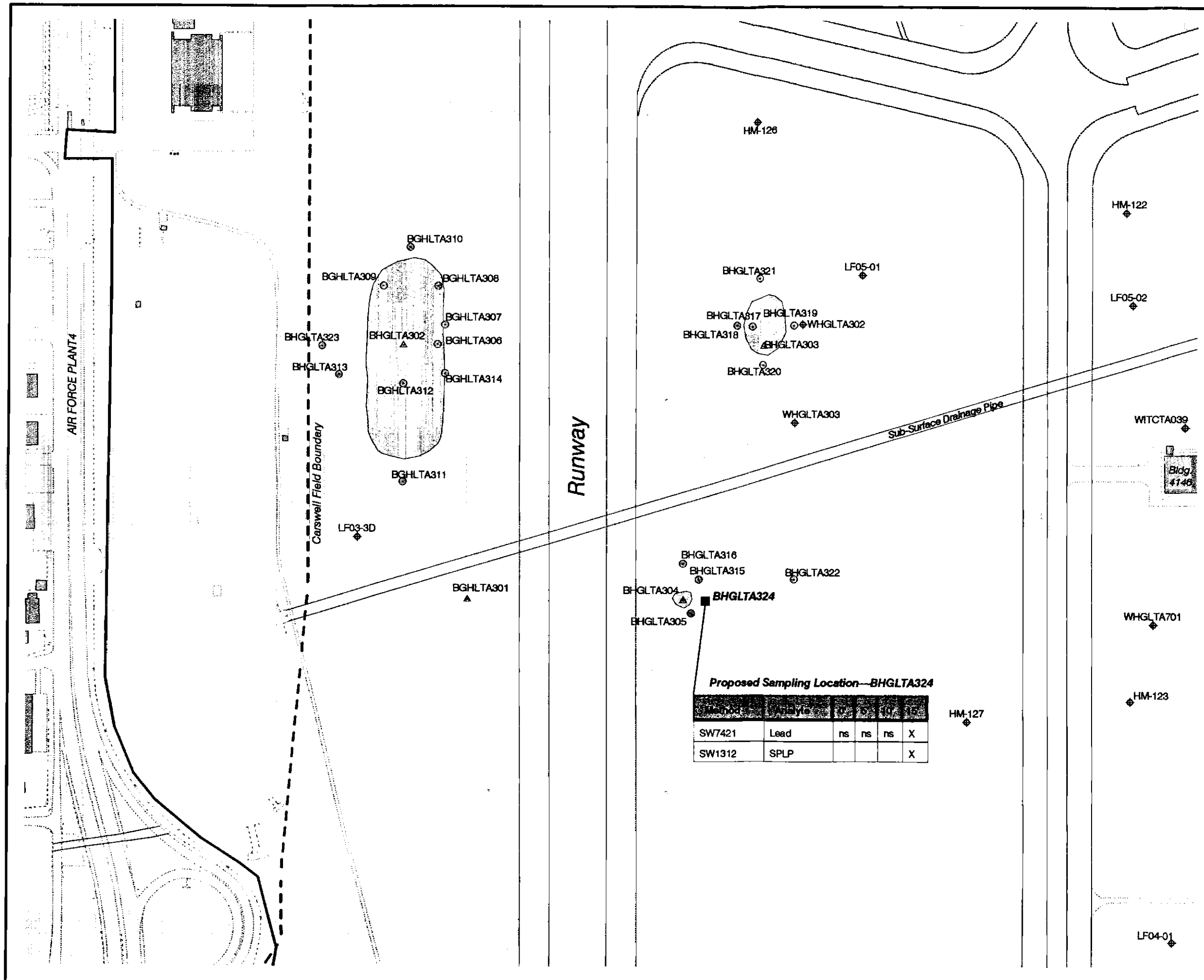
Parname	Hglvalu	Bgrnd	Rrs2	Exceedence	Anmcode
1,1-DICHLOROETHANE	0.0008	0.000	3.700	>Bkgrd, <=RRS2	SW8260
1,1-DICHLOROETHENE	0.0040	0.000	0.007	>Bkgrd, <=RRS2	SW8260
VINYL CHLORIDE	0.0240	0.000	0.002	>Bkgrd, >RRS2	SW8260
CIS-1,2-DICHLOROETHENE	1.1 D	0.000	0.070	>Bkgrd, >RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.046 D	0.000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.88 D	0.000	0.005	>Bkgrd, >RRS2	SW8260
BARIUM	0.0945	0.587	2.300	<Bkgrd, <RRS2	SW6010

200 0 200 400 Feet

HYDRO GeoLogic INC.

N

Created: nzahms 06/22/98
Revised: jb 12/11/98
GIS Lab. HydroGeoLogic, Inc.
Project No.: AFC001-05CEA
File No.: AFC001\05CEA-BACKUP\LANDFILL.APR



HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.4

Landfill 3/SWMU 26
Proposed Sampling Locations

Sampling Intervals and Analytical Methods

Air Force Center For
Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA621 — Proposed Sampling Location
- BHGLTA211 — Existing Borehole Location
- BHGLTA202 — Existing Borehole/Piezometer Location
- GMI-22-07M — Existing Monitoring Well Location

NOTES:

X—Proposed sample interval
ns—no sample
tbd—to be determined (based on 1st round analytical results)

N

125 0 125 250 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/f3_proposed.apr
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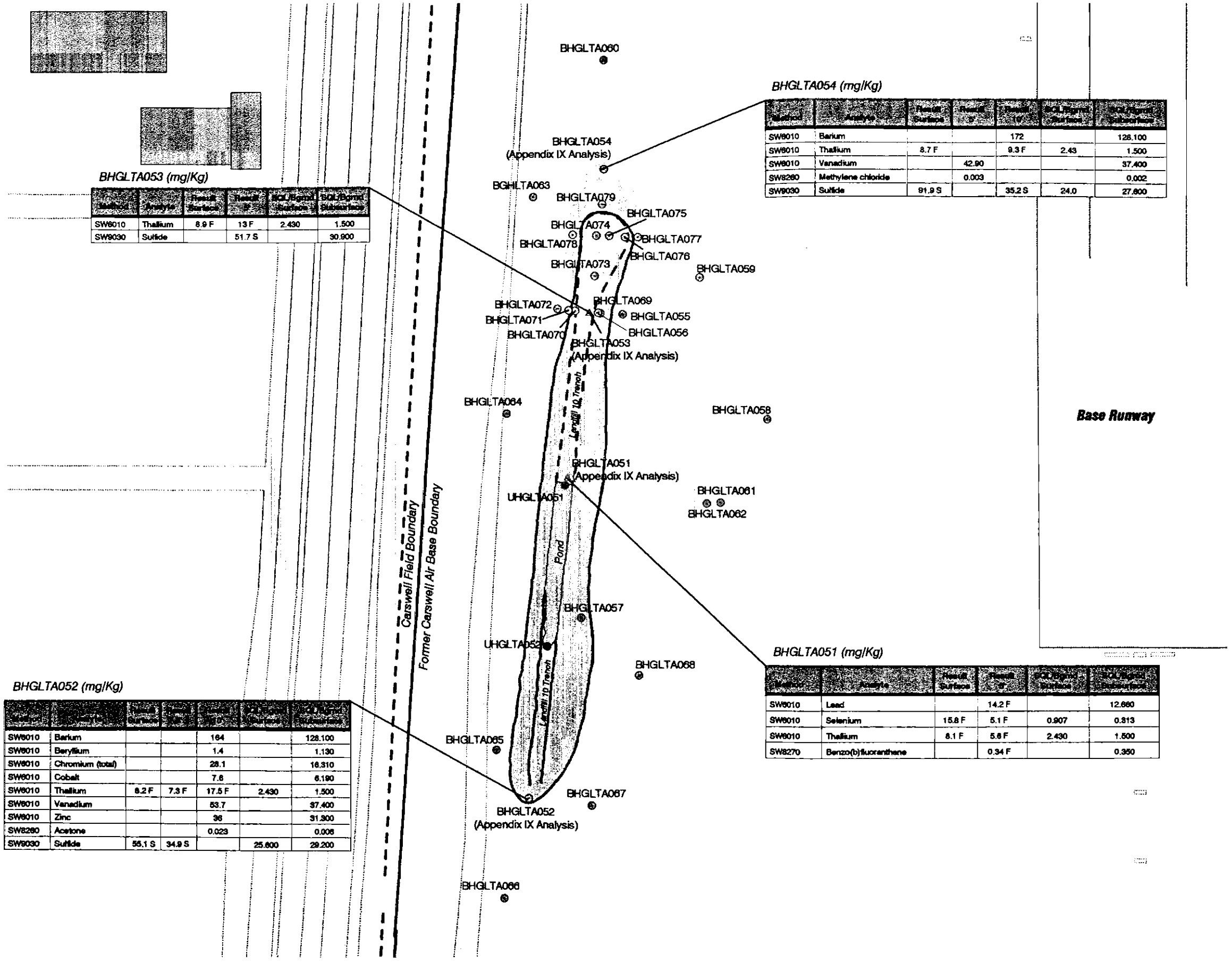
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.



BHGLTA053 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Thallium	8.9 F	13 F	2.430	1.500
SW9030	Sulfide		51.7 S		30.900

BHGLTA054 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Barium			172		128.100
SW6010	Thallium	8.7 F		9.3 F	2.43	1.500
SW6010	Vanadium		42.90			37.400
SW8260	Methylene chloride		0.003			0.002
SW9030	Sulfide	91.9 S		35.2 S	24.0	27.600

BHGLTA051 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Lead		14.2 F		12.660
SW6010	Selenium	15.8 F	5.1 F	0.907	0.313
SW6010	Thallium	8.1 F	5.6 F	2.430	1.500
SW8270	Benzo(b)fluoranthene		0.34 F		0.350

BHGLTA052 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Barium			164		128.100
SW6010	Beryllium			1.4		1.130
SW6010	Chromium (total)			28.1		16.310
SW6010	Cobalt			7.6		6.190
SW6010	Thallium	8.2 F	7.3 F	17.5 F	2.430	1.500
SW6010	Vanadium			53.7		37.400
SW6010	Zinc			36		31.300
SW8260	Acetone			0.023		0.006
SW9030	Sulfide	55.1 S	34.9 S		25.600	29.200

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Figure 3.5

Landfill 10/SWMU 27

Soil Analytical Concentrations Above Background or Method Quantitation Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- - - NAS Fort Worth JRB (Carswell Field)
Former Carswell Air Force Base
Landfill Boundaries
BHGLTA211 Borehole Location
BHGLTA202 Borehole/Piezometer Location
BHGLTA211 Surface Water Sample Location
GMI-22-07M Monitoring Well Location

NOTES: J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgrnd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

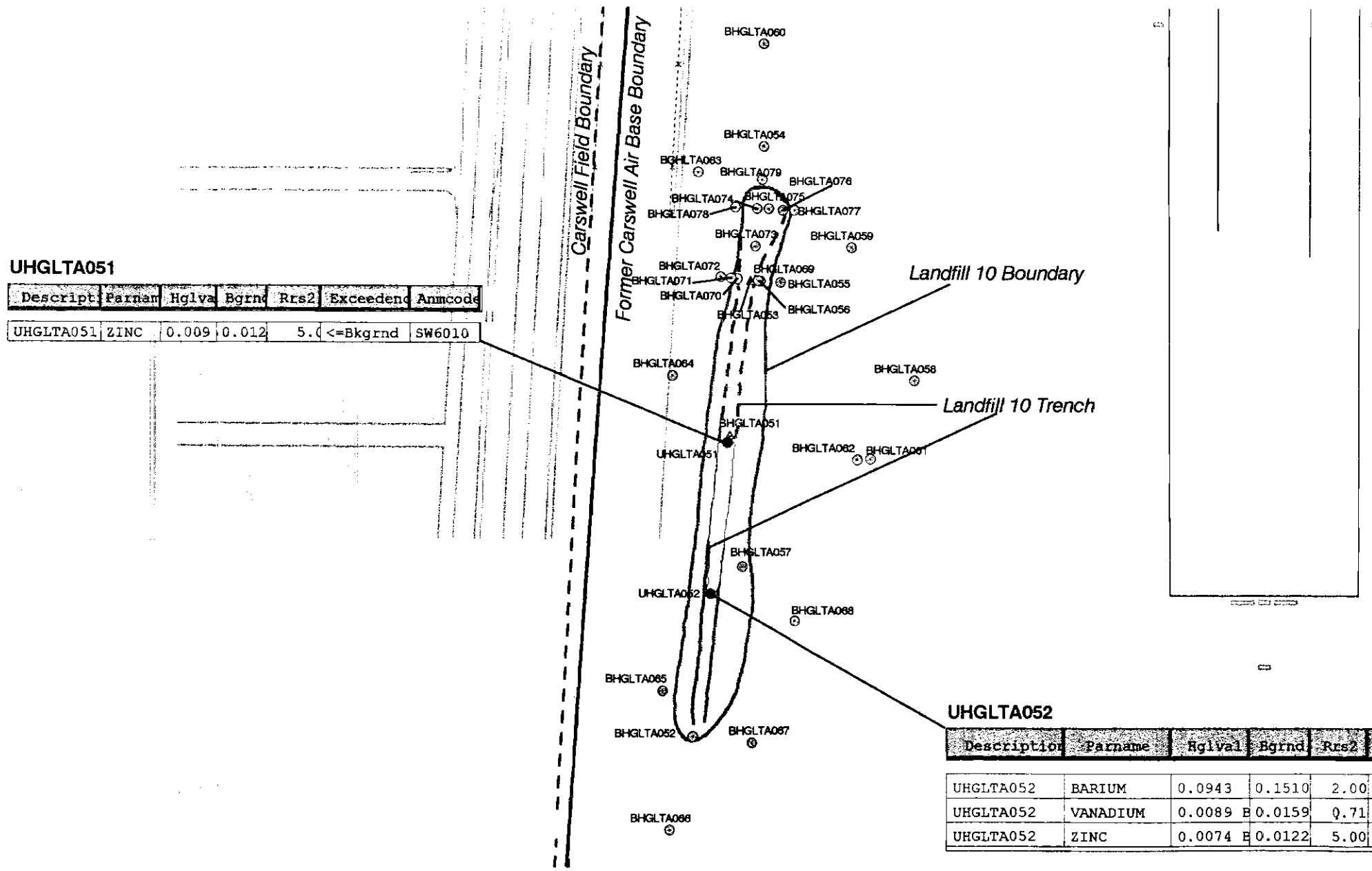
75 0 75 150 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf10_combined.apr
Created: 10/09/98/98 nzehms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.

LANDFILL #10/ SWMU 27

Concentrations in µg/L



UHGLTA051

Descript	Parnam	Hglva	Bgrnd	Rrs2	Exceedenc	Anmcode
UHGLTA051	ZINC	0.009	0.012	5.0	<=Bkgrnd	SW6010

UHGLTA052

Description	Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
UHGLTA052	BARIUM	0.0943	0.1510	2.00	<=Bkgrnd	SW6010
UHGLTA052	VANADIUM	0.0089 B	0.0159	0.71	<=Bkgrnd	SW6010
UHGLTA052	ZINC	0.0074 B	0.0122	5.00	<=Bkgrnd	SW6010

100 0 100 200 Feet

HYDRO GeoLogic INC.

N

Created: rzahrns 06/22/98
Revised: jb 12/11/98
GIS Lab, HydroGeoLogic, Inc.
Project No.: AFC001-05CEA
File No.: AFC001\05CEA-BACKUP\LANDFILL.APR

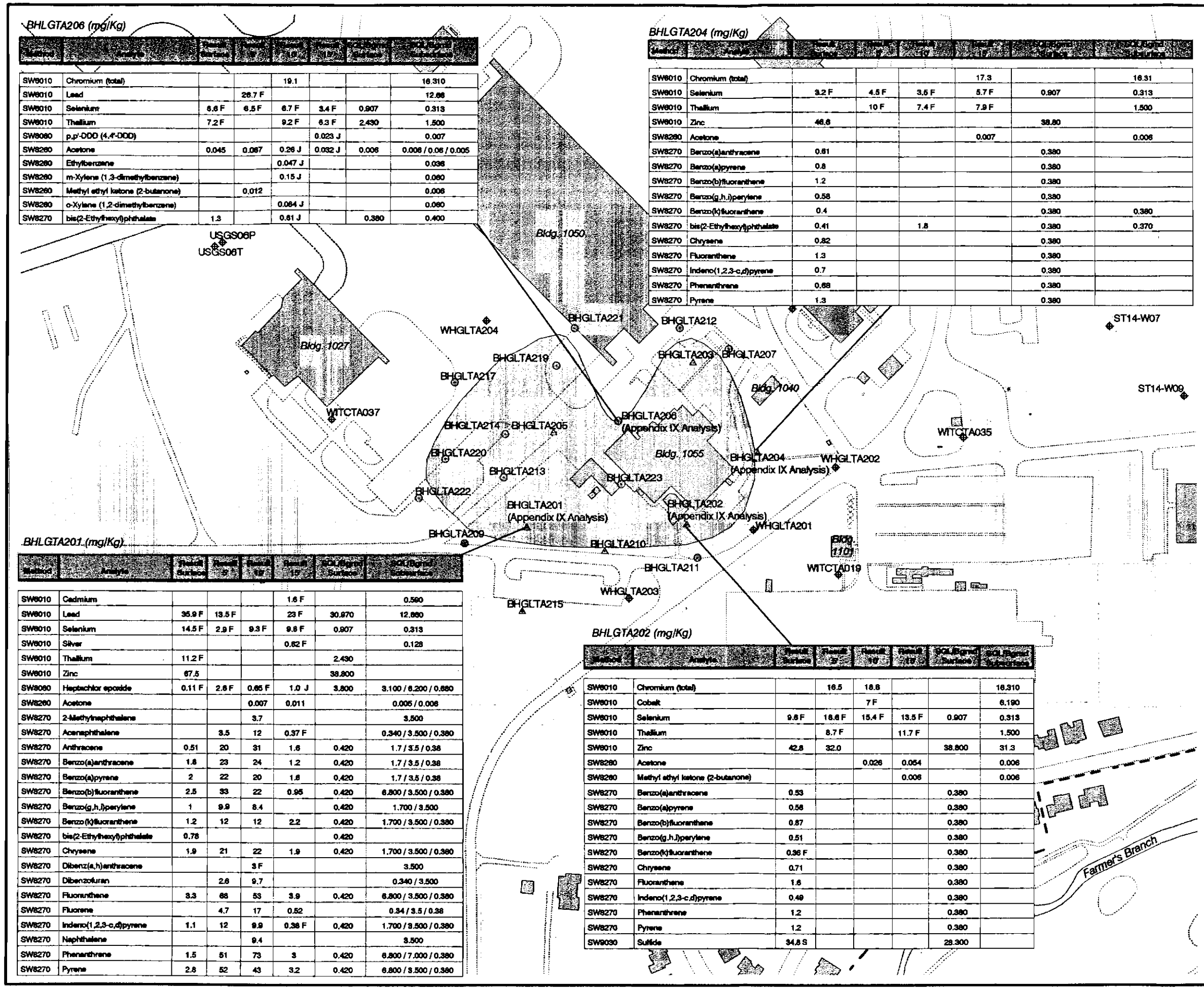
HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.6

Landfill 2/SWMU 29

Soil Analytical Concentrations Above Background or Method Quantitation Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas



BHLGTA206 (mg/Kg)

Method	Analyte	Bgrnd Surface	Bgrnd 5'	Bgrnd 10'	Bgrnd 15'	SQL Bgrnd Surface	SQL Bgrnd Subsurface
SW6010	Chromium (total)			19.1			16.310
SW6010	Lead		26.7 F				12.66
SW6010	Selenium	5.6 F	6.5 F	6.7 F	3.4 F	0.907	0.313
SW6010	Thallium	7.2 F		9.2 F	6.3 F	2.430	1.500
SW8080	p,p'-DDD (4,4'-DDD)				0.023 J		0.007
SW8260	Acetone	0.045	0.067	0.26 J	0.032 J	0.006	0.006 / 0.06 / 0.005
SW8260	Ethylbenzene			0.047 J			0.036
SW8260	m-Xylene (1,3-dimethylbenzene)			0.15 J			0.060
SW8260	Methyl ethyl ketone (2-butanone)		0.012				0.006
SW8260	o-Xylene (1,2-dimethylbenzene)			0.064 J			0.060
SW8270	bis(2-Ethylhexyl)phthalate	1.3		0.61 J		0.380	0.400

BHLGTA204 (mg/Kg)

Method	Analyte	Bgrnd Surface	Bgrnd 5'	Bgrnd 10'	Bgrnd 15'	SQL Bgrnd Surface	SQL Bgrnd Subsurface
SW6010	Chromium (total)				17.3		16.31
SW6010	Selenium	3.2 F	4.5 F	3.5 F	5.7 F	0.907	0.313
SW6010	Thallium		10 F	7.4 F	7.9 F		1.500
SW6010	Zinc	46.6				38.80	
SW8260	Acetone				0.007		0.006
SW8270	Benzo(a)anthracene	0.61				0.380	
SW8270	Benzo(a)pyrene	0.8				0.380	
SW8270	Benzo(b)fluoranthene	1.2				0.380	
SW8270	Benzo(g,h,i)perylene	0.58				0.380	
SW8270	Benzo(k)fluoranthene	0.4				0.380	0.380
SW8270	bis(2-Ethylhexyl)phthalate	0.41		1.8		0.380	0.370
SW8270	Chrysene	0.82				0.380	
SW8270	Fluoranthene	1.3				0.380	
SW8270	Indeno(1,2,3-c,d)pyrene	0.7				0.380	
SW8270	Phenanthrene	0.68				0.380	
SW8270	Pyrene	1.3				0.380	

BHLGTA201 (mg/Kg)

Method	Analyte	Bgrnd Surface	Bgrnd 5'	Bgrnd 10'	Bgrnd 15'	SQL Bgrnd Surface	SQL Bgrnd Subsurface
SW6010	Cadmium				1.6 F		0.590
SW6010	Lead	35.9 F	13.5 F		23 F	30.970	12.660
SW6010	Selenium	14.5 F	2.9 F	9.3 F	9.8 F	0.907	0.313
SW6010	Silver				0.62 F		0.128
SW6010	Thallium	11.2 F				2.430	
SW6010	Zinc	67.5				38.800	
SW8080	Heptachlor epoxide	0.11 F	2.6 F	0.65 F	1.0 J	3.800	3.100 / 6.200 / 0.680
SW8260	Acetone			0.007	0.011		0.005 / 0.006
SW8270	2-Methylnaphthalene			3.7			3.500
SW8270	Acenaphthalene		3.5	12	0.37 F		0.340 / 3.500 / 0.380
SW8270	Anthracene	0.51	20	31	1.6	0.420	1.7 / 3.5 / 0.38
SW8270	Benzo(a)anthracene	1.6	23	24	1.2	0.420	1.7 / 3.5 / 0.38
SW8270	Benzo(a)pyrene	2	22	20	1.6	0.420	1.7 / 3.5 / 0.38
SW8270	Benzo(b)fluoranthene	2.5	33	22	0.95	0.420	6.800 / 3.500 / 0.380
SW8270	Benzo(g,h,i)perylene	1	9.9	8.4		0.420	1.700 / 3.500
SW8270	Benzo(k)fluoranthene	1.2	12	12	2.2	0.420	1.700 / 3.500 / 0.380
SW8270	bis(2-Ethylhexyl)phthalate	0.78				0.420	
SW8270	Chrysene	1.9	21	22	1.9	0.420	1.700 / 3.500 / 0.380
SW8270	Dibenz(a,h)anthracene			3 F			3.500
SW8270	Dibenzofuran		2.6	9.7			0.340 / 3.500
SW8270	Fluoranthene	3.3	68	53	3.9	0.420	6.800 / 3.500 / 0.380
SW8270	Fluorene		4.7	17	0.52		0.34 / 3.5 / 0.38
SW8270	Indeno(1,2,3-c,d)pyrene	1.1	12	9.9	0.38 F	0.420	1.700 / 3.500 / 0.380
SW8270	Naphthalene			9.4			3.500
SW8270	Phenanthrene	1.5	51	73	3	0.420	6.800 / 7.000 / 0.380
SW8270	Pyrene	2.8	52	43	3.2	0.420	6.800 / 3.500 / 0.380

BHLGTA202 (mg/Kg)

Method	Analyte	Bgrnd Surface	Bgrnd 5'	Bgrnd 10'	Bgrnd 15'	SQL Bgrnd Surface	SQL Bgrnd Subsurface
SW6010	Chromium (total)		16.5	18.8			16.310
SW6010	Cobalt			7 F			6.190
SW6010	Selenium	9.8 F	18.6 F	15.4 F	13.5 F	0.907	0.313
SW6010	Thallium		8.7 F		11.7 F		1.500
SW6010	Zinc	42.8	32.0			38.800	31.3
SW8260	Acetone			0.026	0.054		0.006
SW8260	Methyl ethyl ketone (2-butanone)				0.006		0.006
SW8270	Benzo(a)anthracene	0.53				0.380	
SW8270	Benzo(a)pyrene	0.56				0.380	
SW8270	Benzo(b)fluoranthene	0.87				0.380	
SW8270	Benzo(g,h,i)perylene	0.51				0.380	
SW8270	Benzo(k)fluoranthene	0.36 F				0.380	
SW8270	Chrysene	0.71				0.380	
SW8270	Fluoranthene	1.6				0.380	
SW8270	Indeno(1,2,3-c,d)pyrene	0.49				0.380	
SW8270	Phenanthrene	1.2				0.380	
SW8270	Pyrene	1.2				0.380	
SW9030	Sulfide	34.8 S				28.300	

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA211 — Borehole Location
- BHGLTA202 — Borehole/Piezometer Location
- GMI-22-07M — Monitoring Well Location

NOTES:
J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgrnd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

100 0 100 200 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/ff2_combined.apr
Created: 10/09/98 nzelms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

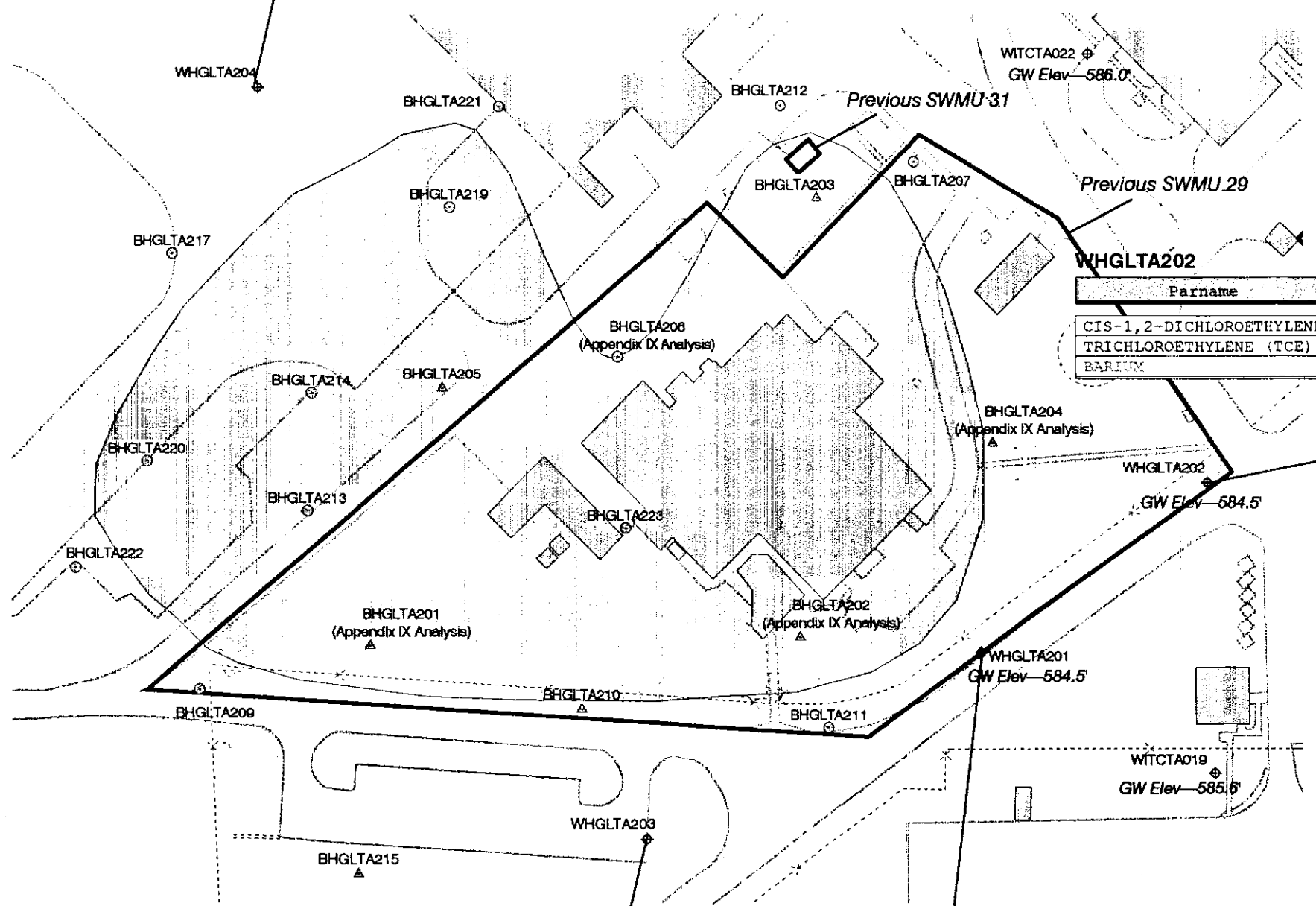
HYDRO GeoLogic INC.

LANDFILL #2/ SWMU 29

Concentrations in µg/L

WHGLTA204

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
VINYL ACETATE	0.0070	0.000	37.00	>Bkgrd, <=RRS2	SW8260
CIS-1,2-DICHLOROETHYLENE	0.0070	0.000	0.070	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.0450	0.000	0.005	>Bkgrd, >RRS2	SW8260
BARIUM	0.0869	0.587	2.000	<Bkgrd, <=RRS2	SW6010



WHGLTA202

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHYLENE	0.0006	0.000	0.070	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.0060	0.000	0.005	>Bkgrd, >RRS2	SW8260
BARIUM	0.2990	0.587	2.000	<Bkgrd, <=RRS2	SW6010

WHGLTA203

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHYLENE	0.020	0.000	0.070	>Bkgrd, <=RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.007	0.000	0.100	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.004	0.000	0.005	>Bkgrd, <=RRS2	SW8260
VINYL CHLORIDE	0.002	0.000	0.002	>Bkgrd, <=RRS2	SW8260

WHGLTA201

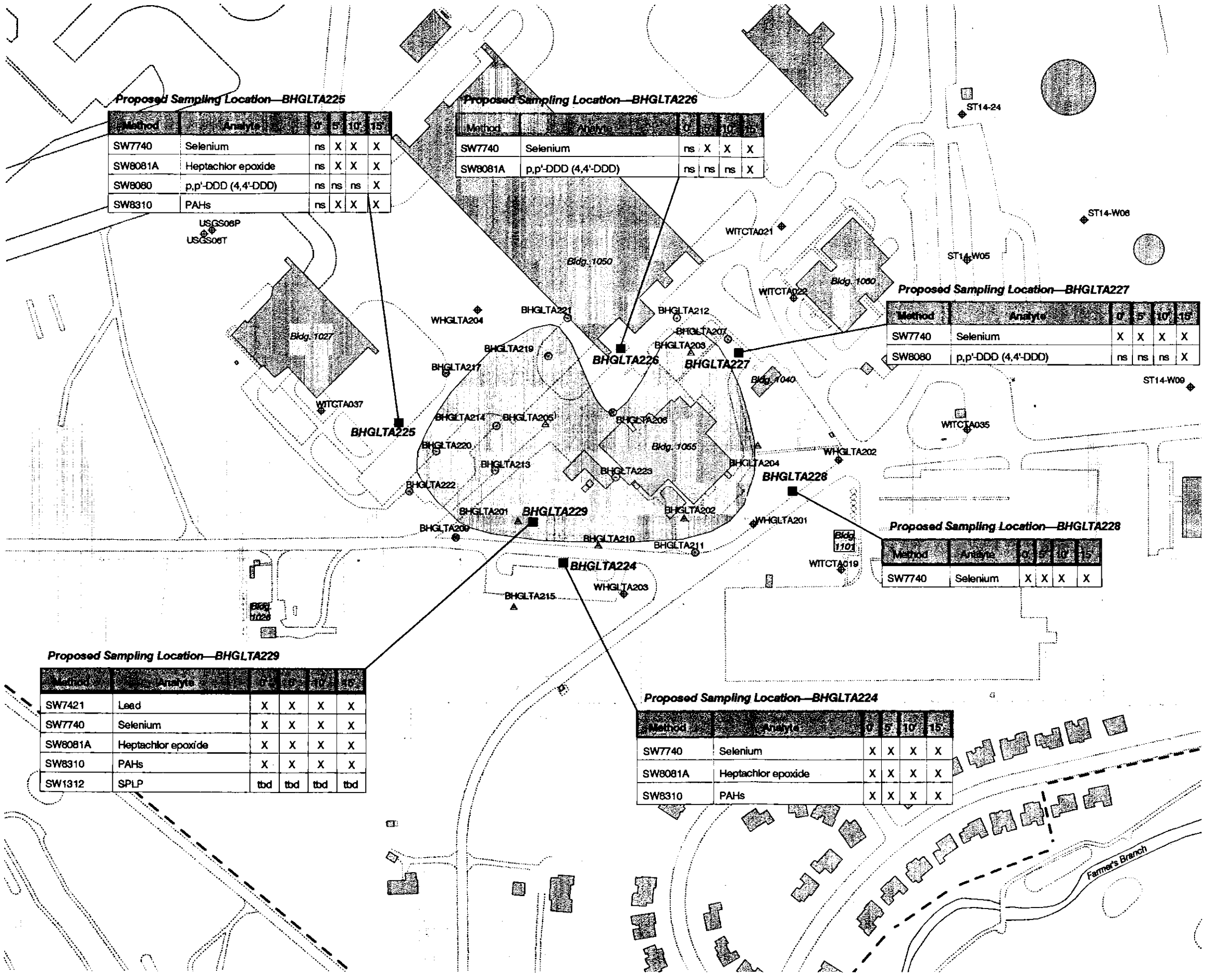
Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
TRANS-1,2-DICHLOROETHENE	0.0009	0.000	0.1	>Bkgrd, <=RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.015	0.000	0.005	>Bkgrd, >RRS2	SW8260
CIS-1,2-DICHLOROETHYLENE	0.002	0.000	0.07	>Bkgrd, <=RRS2	SW8260
BARIUM	0.3240	0.587	2.0	<Bkgrd, <=RRS2	SW6010
p-DIMETHYLAMINOBENZENE	0.002 F	0.000	NA	>Bkgrd, RRS2-NA	SW8270

60 0 60 120 Feet

HYDRO GeoLogic INC.

N

Created: rzehms 08/22/98
Revised: jb 12/11/98
GIS Lab, HydroGeoLogic, Inc.
Project No.: AFC001-05CEA
File No.: AFC001\05CEA-BACKUP\LANDFILL.APR



Proposed Sampling Location—BHGLTA225

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	ns	X	X	X
SW8081A	Heptachlor epoxide	ns	X	X	X
SW8080	p,p'-DDD (4,4'-DDD)	ns	ns	ns	X
SW8310	PAHs	ns	X	X	X

Proposed Sampling Location—BHGLTA226

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	ns	X	X	X
SW8081A	p,p'-DDD (4,4'-DDD)	ns	ns	ns	X

Proposed Sampling Location—BHGLTA227

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X
SW8080	p,p'-DDD (4,4'-DDD)	ns	ns	ns	X

Proposed Sampling Location—BHGLTA228

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X

Proposed Sampling Location—BHGLTA229

Method	Analyte	0'	5'	10'	15'
SW7421	Lead	X	X	X	X
SW7740	Selenium	X	X	X	X
SW8081A	Heptachlor epoxide	X	X	X	X
SW8310	PAHs	X	X	X	X
SW1312	SPLP	tbd	tbd	tbd	tbd

Proposed Sampling Location—BHGLTA224

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X
SW8081A	Heptachlor epoxide	X	X	X	X
SW8310	PAHs	X	X	X	X

HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.7

Landfill 2/SWMU 29 Proposed Sampling Locations

Sampling Intervals and Analytical Methods

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA621 — Proposed Sampling Location
- BHGLTA211 — Existing Borehole Location
- BHGLTA202 — Existing Borehole/Piezometer Location
- GMI-22-07M — Existing Monitoring Well Location

NOTES:

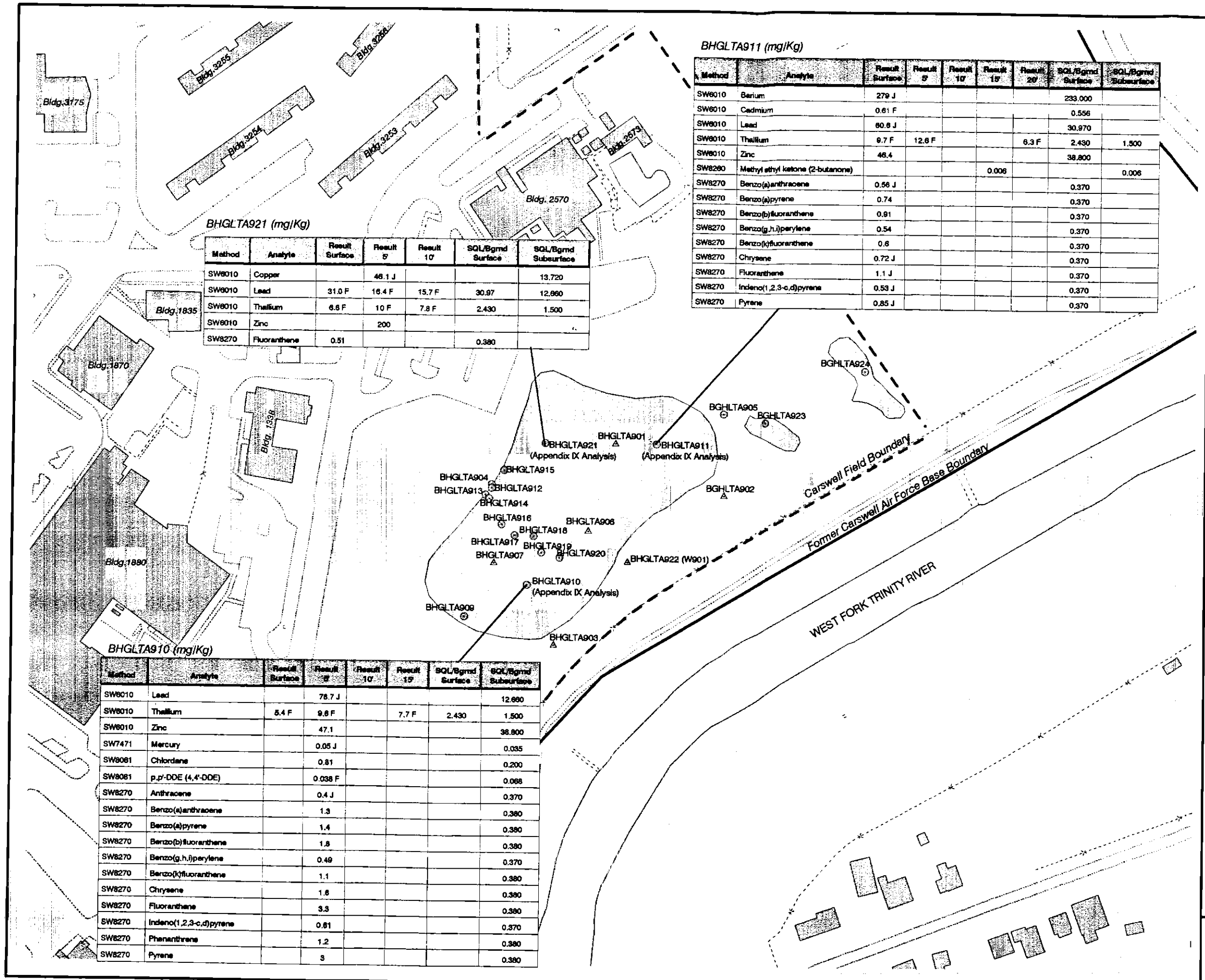
X—Proposed sample interval
ns—no sample
tbd—to be determined (based on 1st round analytical results)

N

100 0 100 200 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf2_proposed.apr
Created: 12/01/98/98 wzhms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.



Method	Analyte	Result Surface	Result 5'	Result 10'	SQL/Bgmd Surface	SQL/Bgmd Subsurface
SW6010	Copper		46.1 J			13.720
SW6010	Lead	31.0 F	16.4 F	15.7 F	30.97	12.660
SW6010	Thallium	6.6 F	10 F	7.8 F	2.430	1.500
SW6010	Zinc		200			
SW8270	Fluoranthene	0.51			0.380	

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	Result 20'	SQL/Bgmd Surface	SQL/Bgmd Subsurface
SW6010	Barium	279 J					233.000	
SW6010	Cadmium	0.61 F					0.556	
SW6010	Lead	60.6 J					30.970	
SW6010	Thallium	9.7 F	12.6 F			6.3 F	2.430	1.500
SW6010	Zinc	46.4					38.800	
SW8260	Methyl ethyl ketone (2-butanone)				0.006			0.006
SW8270	Benzo(a)anthracene	0.56 J					0.370	
SW8270	Benzo(a)pyrene	0.74					0.370	
SW8270	Benzo(b)fluoranthene	0.91					0.370	
SW8270	Benzo(g,h,i)perylene	0.54					0.370	
SW8270	Benzo(k)fluoranthene	0.6					0.370	
SW8270	Chrysene	0.72 J					0.370	
SW8270	Fluoranthene	1.1 J					0.370	
SW8270	Indeno(1,2,3-c,d)pyrene	0.53 J					0.370	
SW8270	Pyrene	0.85 J					0.370	

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	SQL/Bgmd Surface	SQL/Bgmd Subsurface
SW6010	Lead		78.7 J				12.660
SW6010	Thallium	5.4 F	9.8 F		7.7 F	2.430	1.500
SW6010	Zinc		47.1				38.800
SW7471	Mercury		0.05 J				0.035
SW8081	Chlordane		0.81				0.200
SW8081	p,p'-DDE (4,4'-DDE)		0.038 F				0.068
SW8270	Anthracene		0.4 J				0.370
SW8270	Benzo(a)anthracene		1.3				0.380
SW8270	Benzo(a)pyrene		1.4				0.380
SW8270	Benzo(b)fluoranthene		1.8				0.380
SW8270	Benzo(g,h,i)perylene		0.49				0.370
SW8270	Benzo(k)fluoranthene		1.1				0.380
SW8270	Chrysene		1.6				0.380
SW8270	Fluoranthene		3.3				0.380
SW8270	Indeno(1,2,3-c,d)pyrene		0.61				0.370
SW8270	Phenanthrene		1.2				0.380
SW8270	Pyrene		3				0.380

HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.8

Landfill 9/SWMU 30

Soil Analytical Concentrations Above Background or Method Quantitation Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA211 — Borehole Location
- BHGLTA202 — Borehole/Piezometer Location
- GMI-22-07M — Monitoring Well Location

NOTES:
J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgmd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

75 0 75 150 Feet
Scale in feet

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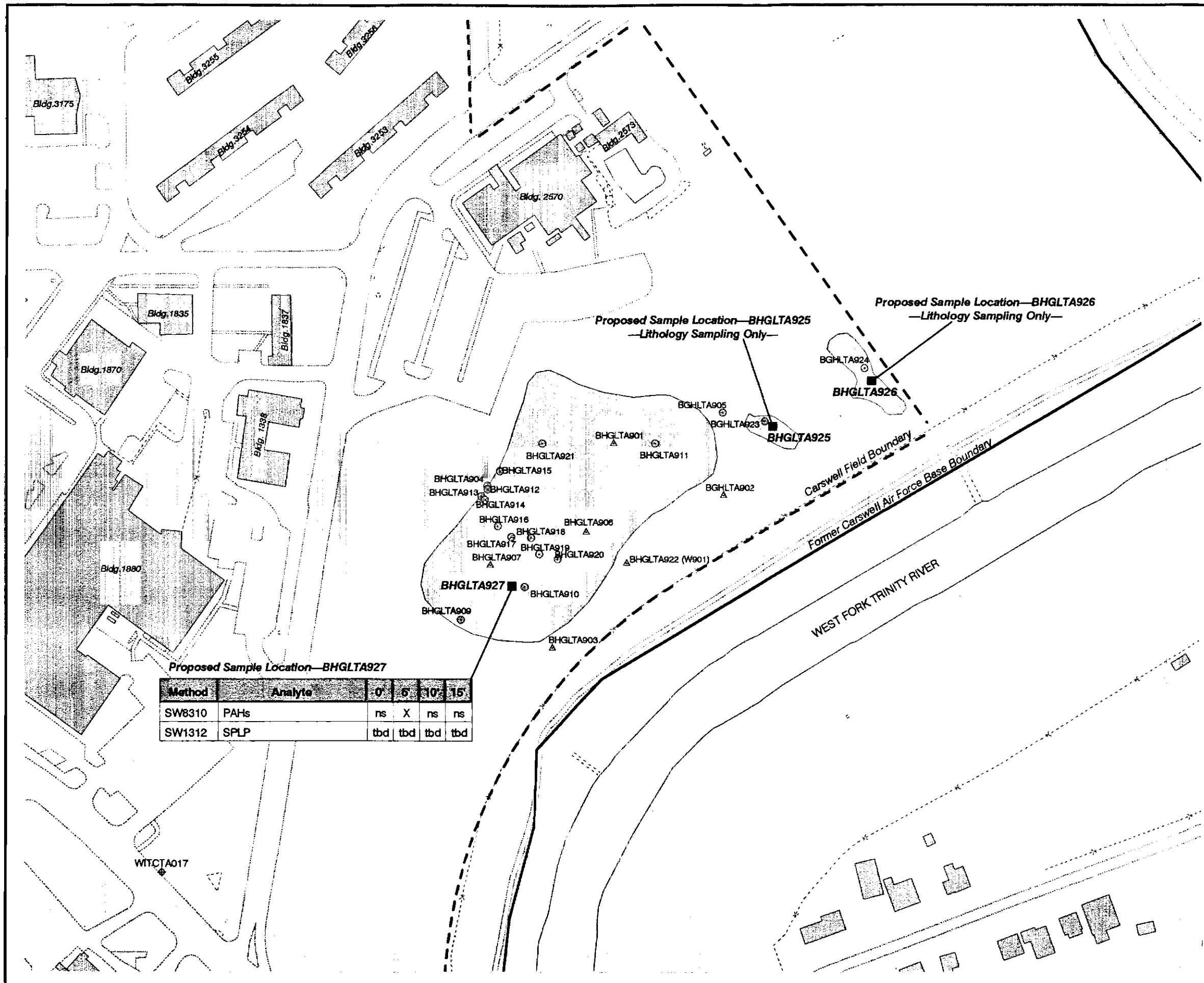
Filename: 05CEA/REPORT/lf9_combined.apr
Created: 10/09/98 nzehms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.



Method	Analyte	0'	5'	10'	15'
SW8310	PAHs	ns	X	ns	ns
SW1312	SPLP	tbd	tbd	tbd	tbd

HydroGeoLogic, Inc.—Technical Memorandum
NAS Fort Worth JRB, Texas

Figure 3.9

Landfill 9/SWMU 30
Proposed Sampling Locations

Sampling Intervals and Analytical Methods

Air Force Center For
Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA621 — Proposed Sampling Location
- BHGLTA211 — Existing Borehole Location
- BHGLTA202 — Existing Borehole/Piezometer Location
- GMI-22-07M — Existing Monitoring Well Location

NOTES:

X—Proposed sample interval

ns—no sample

tbd—to be determined (based on 1st round analytical results)

N

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Scale in feet

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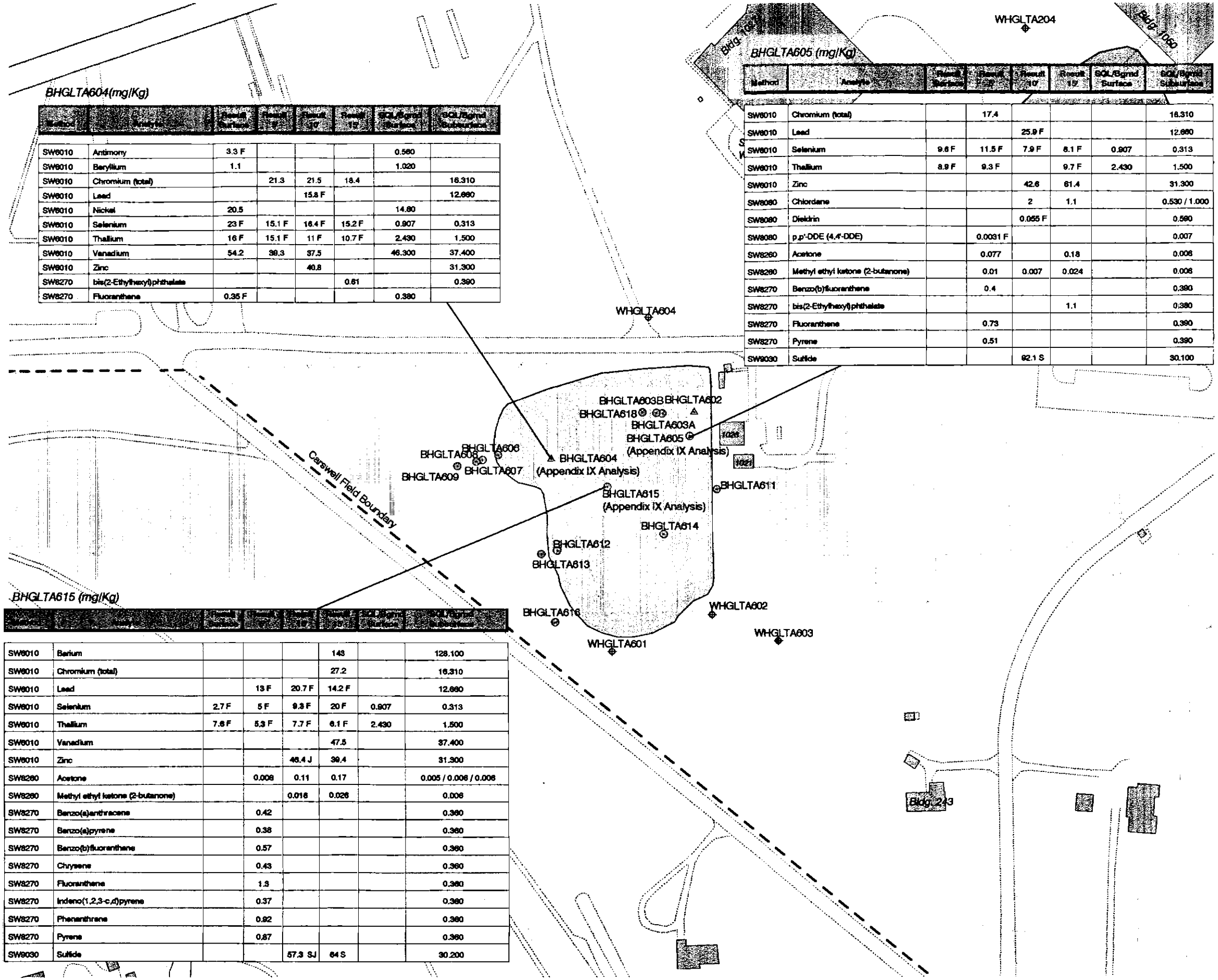
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

HYDRO GeoLogic INC.



BHGLTA604(mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Antimony	3.3 F				0.560	
SW6010	Beryllium	1.1				1.020	
SW6010	Chromium (total)		21.3	21.5	18.4		16.310
SW6010	Lead			15.8 F			12.660
SW6010	Nickel	20.5				14.80	
SW6010	Selenium	23 F	15.1 F	16.4 F	15.2 F	0.907	0.313
SW6010	Thallium	16 F	15.1 F	11 F	10.7 F	2.430	1.500
SW6010	Vanadium	54.2	39.3	37.5		46.300	37.400
SW6010	Zinc			40.8			31.300
SW8270	bis(2-Ethylhexyl)phthalate				0.61		0.390
SW8270	Fluoranthene	0.35 F				0.380	

BHGLTA605 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Chromium (total)		17.4				16.310
SW6010	Lead			25.9 F			12.660
SW6010	Selenium	9.6 F	11.5 F	7.9 F	8.1 F	0.907	0.313
SW6010	Thallium	8.9 F	9.3 F		9.7 F	2.430	1.500
SW6010	Zinc			42.6	61.4		31.300
SW8080	Chlordane			2	1.1		0.530 / 1.000
SW8080	Dieldrin			0.055 F			0.590
SW8080	p,p'-DDE (4,4'-DDE)		0.0031 F				0.007
SW8260	Acetone		0.077		0.18		0.006
SW8260	Methyl ethyl ketone (2-butanone)		0.01	0.007	0.024		0.006
SW8270	Benzo(b)fluoranthene		0.4				0.390
SW8270	bis(2-Ethylhexyl)phthalate				1.1		0.380
SW8270	Fluoranthene		0.73				0.390
SW8270	Pyrene		0.51				0.390
SW9030	Sulfide			92.1 S			30.100

BHGLTA615 (mg/Kg)

Method	Analyte	Result Surface	Result 5'	Result 10'	Result 15'	SQL/Bgrnd Surface	SQL/Bgrnd Subsurface
SW6010	Barium				143		128.100
SW6010	Chromium (total)				27.2		16.310
SW6010	Lead		13 F	20.7 F	14.2 F		12.660
SW6010	Selenium	2.7 F	5 F	9.3 F	20 F	0.907	0.313
SW6010	Thallium	7.6 F	5.3 F	7.7 F	6.1 F	2.430	1.500
SW6010	Vanadium				47.5		37.400
SW6010	Zinc			46.4 J	39.4		31.300
SW8260	Acetone		0.006	0.11	0.17		0.005 / 0.006 / 0.006
SW8260	Methyl ethyl ketone (2-butanone)			0.016	0.026		0.006
SW8270	Benzo(a)anthracene		0.42				0.360
SW8270	Benzo(a)pyrene		0.38				0.360
SW8270	Benzo(b)fluoranthene		0.57				0.360
SW8270	Chrysene		0.43				0.360
SW8270	Fluoranthene		1.3				0.360
SW8270	Indeno(1,2,3-c,d)pyrene		0.37				0.360
SW8270	Phenanthrene		0.92				0.360
SW8270	Pyrene		0.87				0.360
SW9030	Sulfide			57.3 SJ	64 S		30.200

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NAS Fort Worth JRB, Texas

Figure 3.10

Landfill 6/SWMU 62

Soil Analytical Concentrations Above Background or Method Quantification Limit

Air Force Center For Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA211 — Borehole Location
- BHGLTA202 — Borehole/Piezometer Location
- GMI-22-07M — Monitoring Well Location

NOTES:
J = Estimated
F = Detection between the SQL and MDL
S = Screening level data

MQL (Method Quantitation Limit) = the lowest calibration standard that is analyzed during an initial calibration (e.g., the lowest non-zero standard)

SQL (Sample Quantification Limit) = sample specific practical quantification limit for organics and sulfide.

MDL (Method Detection Limit)

Bgrnd (Background) = Jacobs basewide values for inorganics (1998).

Red shaded values in analytical tables indicate values => RRS2.

All data reported in mg/Kg.

N

75 0 75 150 Feet
Scale in feet

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf6_combined.apr
Created: 10/09/98/98 rzahms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

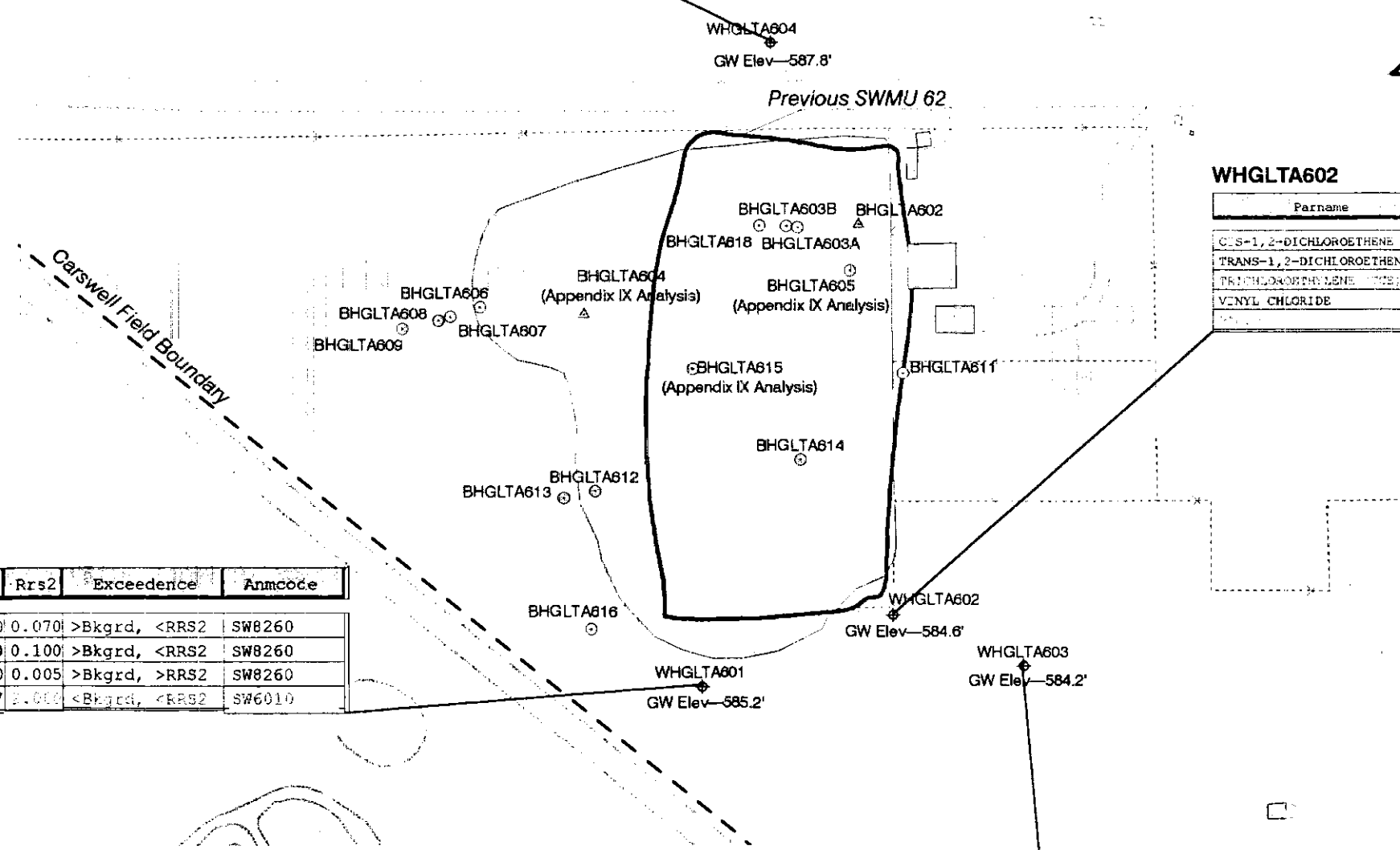
HYDRO GeoLogic INC.

LANDFILL #6/ SWMU 62

Concentrations in µg/L

WHGLTA604

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHENE	0.023	0.000	0.070	>Bkgrd, <RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.130	0.000	0.005	>Bkgrd, >RRS2	SW8260
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



WHGLTA602

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHENE	0.027	0.000	0.070	>Bkgrd, <RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.004	0.000	0.100	>Bkgrd, <RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.107	0.000	0.005	>Bkgrd, >RRS2	SW8260
VINYL CHLORIDE	0.002	0.000	0.002	>Bkgrd, <=RRS2	SW8260
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

WHGLTA601

Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHENE	0.030	0.000	0.070	>Bkgrd, <RRS2	SW8260
TRANS-1,2-DICHLOROETHENE	0.001	0.000	0.100	>Bkgrd, <RRS2	SW8260
TRICHLOROETHYLENE (TCE)	0.150	0.000	0.005	>Bkgrd, >RRS2	SW8260
BARIUM	0.108	0.587	2.000	<Bkgrd, <RRS2	SW6010

WHGLTA603

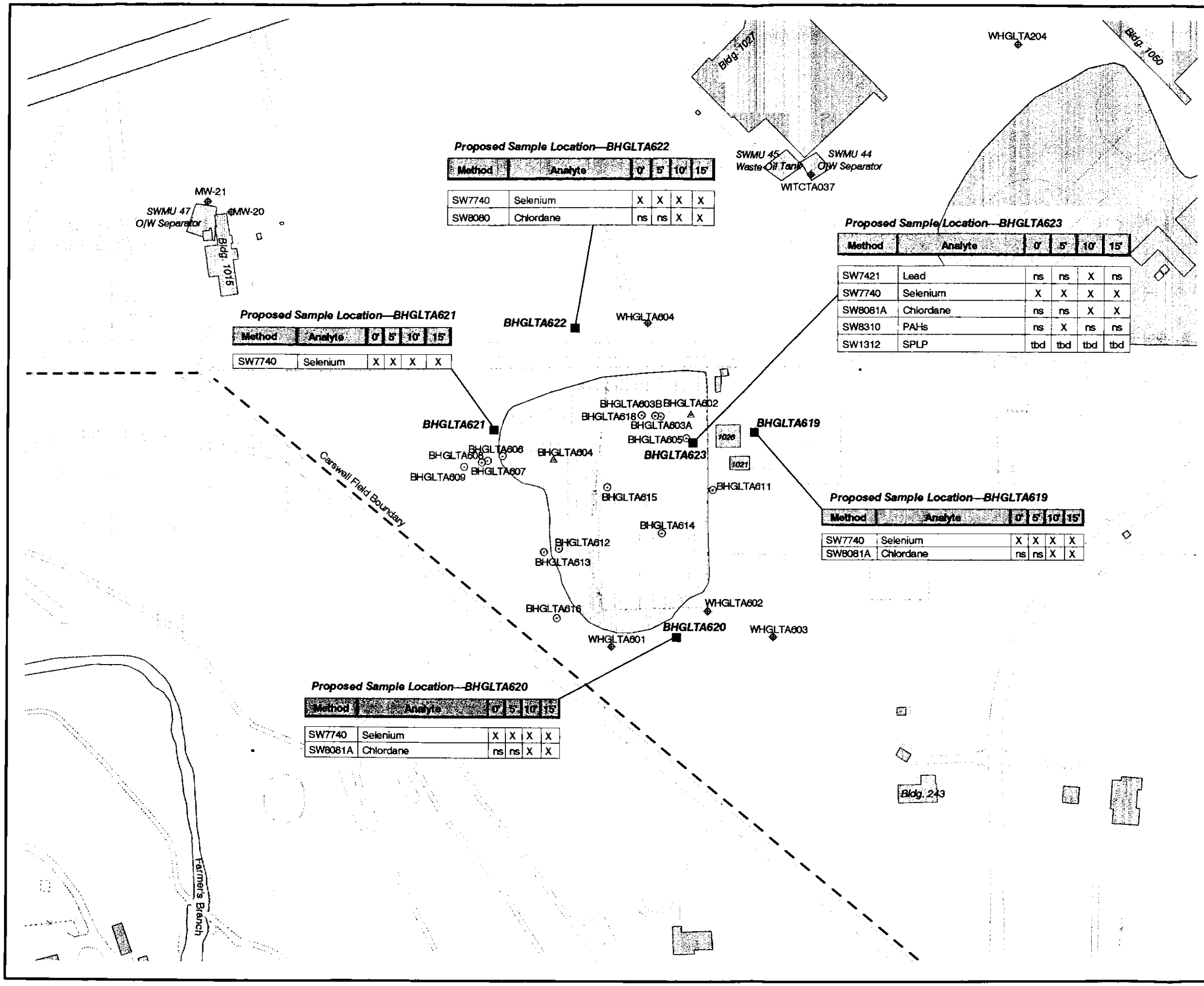
Parname	Hglval	Bgrnd	Rrs2	Exceedence	Anmcode
CIS-1,2-DICHLOROETHENE	0.007	0.000	0.07	>Bkgrd, <RRS2	SW8260
VINYL ACETATE	0.017	0.000	37.0	>Bkgrd, <RRS2	SW8260
BARIUM	0.074	0.587	2.00	<Bkgrd, <RRS2	SW6010

8 0 8 16 Feet

HYDRO GeoLogic INC.

N

Created: rzahms 06/22/98
Revised: jb 12/11/98
GIS Lab, HydroGeoLogic, Inc.
Project No.: AFC001-05CEA
File No.: AFC001-05CEA-BACKUP\LANDFILL.APR



Proposed Sample Location—BHGLTA622

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X
SW8080	Chlordane	ns	ns	X	X

Proposed Sample Location—BHGLTA623

Method	Analyte	0'	5'	10'	15'
SW7421	Lead	ns	ns	X	ns
SW7740	Selenium	X	X	X	X
SW8081A	Chlordane	ns	ns	X	X
SW8310	PAHs	ns	X	ns	ns
SW1312	SPLP	tbd	tbd	tbd	tbd

Proposed Sample Location—BHGLTA621

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X

Proposed Sample Location—BHGLTA619

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X
SW8081A	Chlordane	ns	ns	X	X

Proposed Sample Location—BHGLTA620

Method	Analyte	0'	5'	10'	15'
SW7740	Selenium	X	X	X	X
SW8081A	Chlordane	ns	ns	X	X

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Figure 3.11

Landfill 6/SWMU 62
Proposed Sampling Locations

Sampling Intervals and Analytical Methods

Air Force Center For
Environmental Excellence
Brooks AFB, Texas

Legend

- NAS Fort Worth JRB (Carswell Field)
- Former Carswell Air Force Base
- Landfill Boundaries
- BHGLTA621 — Proposed Sampling Location
- BHGLTA211 — Existing Borehole Location
- BHGLTA202 — Existing Borehole/Piezometer Location
- GMI-22-07M — Existing Monitoring Well Location

NOTES:

X—Proposed sample interval
ns—no sample
tbd—to be determined (based on 1st round analytical results)

Project: AFC001-05CEA
Filename: 05CEA/REPORT/lf6_proposed.apr
Created: 11/30/98/98 rzehms
Revised: 12/06/98 jaf
Map Source: HydroGeoLogic, Inc.—GIS Database

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FINAL PAGE

ADMINISTRATIVE RECORD

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