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Final Report Background Metals at Los Angeles Unified School Sites - ARSENIC

California Department of Toxic Substances Control
California Environmental Protection Agency
June 6, 2005

Summary

This guidance is intended to supplement the DTSC PEA Guidance Manual (DTSC 1994), and provide a uniform and streamlined approach for evaluating background arsenic at LAUSD school sites. It is intended to assist environmental assessors in designing initial investigations, developing PEA Work Plans, or assessing data in the Preliminary Endangerment Assessment or Remedial Investigation.

The background arsenic data presented in this document should not be interpreted as a clean-up or remedial goal for school sites. Development of clean-up goals are conducted on a site-by-site basis and may include considerations of additional ambient data, incremental risk, end use of property, bioavailability, and administrative controls.

Based on the data analyzed, the 95% Upper Confidence Limit of the 99th Percentile Concentration ($C_{UL0.95(X0.99)}$) for arsenic in the LAUSD is **6 mg/kg**. This concentration can be used to determine if the onsite C_{MAX} is less than or equal to $C_{UL0.95(X0.99)}$. The primary site-specific consideration is to evaluate the spatial distribution of arsenic at a site. All decisions for additional sampling at school sites will be made by the project management team based on site specific information. The derivation of this LAUSD regional background arsenic concentration is presented in the following sections.

1.0 INTRODUCTION

The Department of Toxic Substances Control (DTSC) is required by statute (Section 17213.1 of the Education Code) to evaluate new and expanding school sites for potential toxic chemicals. The role of DTSC is to ensure that selected properties do

not contain hazardous materials or that these properties have been appropriately remediated for the protection of the staff and children at these sites. The Los Angeles Unified School District (LAUSD) is the largest school district in the state and the second largest in the entire country. LAUSD has proposed to build a large number of schools in the Los Angeles area which DTSC has either already been involved with or will be involved with over next few years.

Metals are naturally occurring in soil, and as such, can prove problematic when identifying chemicals of potential concern (COPC) for risk assessment purposes. The question that inevitably arises is, "Are the metals detected at a site attributable to naturally occurring background metals, or are they the result of a site activity that resulted in a release of metals?" This can best be answered by first determining what the site-specific background level for a particular metal is, and then comparing this level to the metal concentrations detected on-site. In more formal terms, is $C_{MAX} < C_{BACKGROUND}$?

Typically DTSC has requested that background samples be collected from an unimpacted area near the site with the same soil type, using the protocol in the Preliminary Endangerment Assessment (PEA) Guidance Manual (DTSC 1994). This often requires obtaining permission from property owners to collect samples, thereby limiting the number of background samples collected to usually no more than four locations. Increasingly, DTSC is being requested to use other data sets, rather than site-specific data, for background purposes. While this increases the number of samples used to establish the background levels, there is always the concern that the data set chosen for background may not be representative of background conditions at the site being evaluated. To overcome this concern, DTSC embarked on a project to establish a regional Los Angeles Unified School District (LAUSD) background metals data set, using the data from completed LAUSD PEA Reports. The evaluation of background arsenic was selected to establish the approach and methods to be used in this effort.

Determining the site-specific background level of a particular metal is not as simple as it may seem. The term "background" collectively refers to both naturally occurring and anthropogenic non-site-related concentrations of a metal (in this case, arsenic) in shallow soil. The term "naturally-occurring" refers to concentrations of arsenic that are present in the environment that, in theory, have not been influenced by humans. The term "anthropogenic" refers to concentrations that are present in the urban environment due to human-made activities that did not specifically originate from the site. Thus, this is a description of regional urban background for arsenic, including non-point sources, within the borders of the Los Angeles Unified School District.

The target population is defined as "the regional background arsenic in shallow urban soil" and is scale-dependent. Shallow soils in the greater Los Angeles region represent a mixture of soil types, due to mixing of sediments in the basin from a variety of surrounding upland source areas. State-wide and local studies of metals in shallow soils have shown that while naturally occurring arsenic may be expected to be influenced by soil type, it is far more dependent on composition of the source material (Bradford et al., 1996; Marrett et al., 1991; and Marrett et al., 1992). The LAUSD

regional data set is comprised of a variety of soil types (primarily quaternary alluvium) that range from sands, silty sands, sandy silts, silts, and clays. Regional mixing of local soil types (*i.e.*, mixing of local subpopulations) throughout the basin results in a regional-scale population. Mixing also occurs due to development activities through excavation or use of backfill from local soil sources. Data from each site were thoroughly reviewed, and those data were removed that did not appear to meet the defined target population. The screening typically removed two main kinds of data: sources other than soil (such as construction debris), and soils remediated due to site-related impacts.

In order to expeditiously meet the statutory requirements, facilitate the evaluation of the proposed schools, and comprehensively address potential metal contamination on proposed school sites, DTSC has developed this assessment of background concentrations of arsenic in the Los Angeles area for use on LAUSD projects.

2.0 METHOD

DTSC project managers working on LAUSD School sites were initially contacted and asked to identify those sites where arsenic was not identified as a COPC, e.g., sites where arsenic was shown to be within background based on a comparison to an off-site background data set. In order to better represent the regional range of the arsenic data set, additional data were added from one site where a Removal Action was performed for elevated arsenic concentrations in soil (Accelerated School Site).

Arsenic data from each candidate school site were evaluated for inclusion in the LAUSD Arsenic Database using the following screening protocol:

1. If arsenic data were collected from "non-soil" artificial fill (e.g., construction rubble), the data were excluded from further consideration. However, data collected from artificial fill soil were not excluded. To determine if non-soil artificial fill was present, boring logs, geological cross sections, site history, removal action reports, geophysical survey reports and geotechnical reports, when available, were critically reviewed.
2. All arsenic data collected from subsurface soil below 10-feet in depth were excluded from the LAUSD Arsenic Database.
3. All arsenic data collected from soil that was subsequently excavated as part of a removal action were excluded from the LAUSD Arsenic Database.
4. For duplicate samples, the higher arsenic concentration of the sample or duplicate was included in the LAUSD Arsenic Database.
5. Arsenic data were verified against the certified analytical report, when available, and corrected, if necessary, before inclusion in the LAUSD Arsenic Database.
6. Estimated concentrations of arsenic between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), when reported, were used instead of

censoring data (as <PQL). All estimated data were evaluated using the reported estimated concentration when conducting the statistical evaluation.

7. When data were reported as censored (i.e., <PQL), these data were input into the Database as <PQL. All censored data were substituted with one-half the PQL prior to conducting the statistical evaluation.
8. The rationale for inclusion in or exclusion from the database were summarized in a spreadsheet matrix.

Based on the results of the above data screening process, the following LAUSD sites were included in the LAUSD Arsenic Database. The inclusion/exclusion rationale is presented in Appendix A.

1. Proposed Belmont/Hollywood Primary Center #2
2. Towne Avenue Elementary School
3. Proposed Manual Arts Elementary School #1
4. Yorkdale Elementary School
5. Proposed Ramona New Elementary School
6. Arminta Street Elementary School
7. Francis Polytechnic High School
8. Third Street Elementary School
9. Proposed Glassell Park Primary Center
10. Proposed Central Los Angeles High School #9 (Hill Street)
11. Park Avenue Primary Center
12. Proposed Orthopedic Hospital Magnet High School
13. Proposed East Valley High School #2 (Gemco)
14. Proposed Accelerated School Site
15. Proposed Lankershim Elementary School Playground Addition

3.0 RESULTS

A total of 15 sites were included for this analysis. As shown in Figure 1, the sites were distributed throughout the LAUSD. The number of samples from each site ranged from 4 to 116, and they were collected from depths ranging from surface (0 to 1 foot) to 10 feet. The data from the 15 sites were combined into a single data set of 589 samples and is presented in Appendix B. Individual sample concentrations ranged from 0.19 mg/kg to 5.9 mg/kg. Non-detected values were included as one-half the Practical Quantitation Limit (PQL). The descriptive statistics for the combined arsenic data set of 589 samples are summarized in Table 1. The descriptive statistics for individual school sites, as well as a graphic representation of the arsenic data (Box Plots) for individual school sites, are also included in Appendix B.

Table 1
Descriptive Statistics of the Combined Arsenic Data Set

DESCRIPTIVE STATISTIC	VALUE
Sample Size (n)	589
1 st Quartile (Q1)	0.375
50 th Percentile (Q2)	0.664 mg/kg
3 rd Quartile (Q3)	2.03 mg/kg
99 th Percentile	5.19 mg/kg
Maximum Concentration (Q4)	5.9 mg/kg

As shown in Figure 2, the normal probability plot of all arsenic data clearly shows that the arsenic data is not normally distributed. As shown in Figure 3, the log-transformed arsenic data does not appear to be normally distributed (i.e., the arsenic data does not fit a lognormal distribution).

A distribution-free, non-parametric analysis was conducted to estimate the theoretical Upper 95% Limit for the 0.99 Quantile $UL_{0.95}(X_{0.99})$ as described by Gilbert (1987). This method, also known as the distribution-free technique, is used when the underlying distribution is either unknown or non-normal. This method was employed using the following equation:

$$\text{The Rank of the } UL_{0.95}(X_{0.99}) = p(n + 1) + Z_{1-\alpha}[np(1 - p)]^{1/2} \quad \text{(Equation 1)}$$

Where,

$$p = 99\text{th Quantile} = 0.99$$

$$Z_{1-\alpha} = Z \text{ Value for the 95\% Confidence Interval}$$

$$= Z_{0.95}$$

$$= 1.645$$

$$n = \text{Number of samples}$$

$$= 589$$

For the arsenic data set, the Rank of the $UL_{0.95}(X_{0.99})$ can be calculated as follows:

$$\begin{aligned} \text{Rank of } UL_{0.95}(X_{0.99}) &= 0.99(590) + 1.645[(589)(0.99)(0.01)]^{1/2} \\ &= 588.07 \end{aligned}$$

Then, the $UL_{0.95}(X_{0.99})$ would be the arsenic concentration that is 7% of the way between the 588th and the 589th largest values. Since the 588th value is 5.63 mg/kg and the 589th value is 5.9 mg/kg, the $UL_{0.95}(X_{0.99})$ would be approximately **5.65 or 6 mg/kg**.

4.0 APPLICATION

Based on the data analyzed, the 95% Upper Confidence Limit of the 99th percentile Concentration ($C_{UL0.95}(X_{0.99})$) for arsenic in the LAUSD is **6 mg/kg**. This concentration can be used to determine if the onsite C_{MAX} is less than or equal to $C_{UL0.95}(X_{0.99})$. The primary site-specific consideration is to evaluate the spatial distribution of arsenic at a site. All decisions for additional sampling at school sites will be made by the project management team based on site specific information.

The background arsenic data presented in this document should not be interpreted as a clean-up or remedial goal for school sites. Development of clean-up goals are conducted on a site-by-site basis and may include considerations of additional ambient data, incremental risk, end use of property, bioavailability, and administrative controls.

5.0 REFERENCES

DTSC 1994, 1999. Preliminary Endangerment Assessment Guidance Manual. State of California Environmental protection Agency, Department of Toxic Substances Control, January 1994; Second Printing, June 1999.

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Marrett, D.J., Page, A.L., Bradford, G.R., Cardenas, R., Graham, R.C., and Chang, A.C. 1992. Department of Soil and Environmental Sciences, University of California, Riverside.

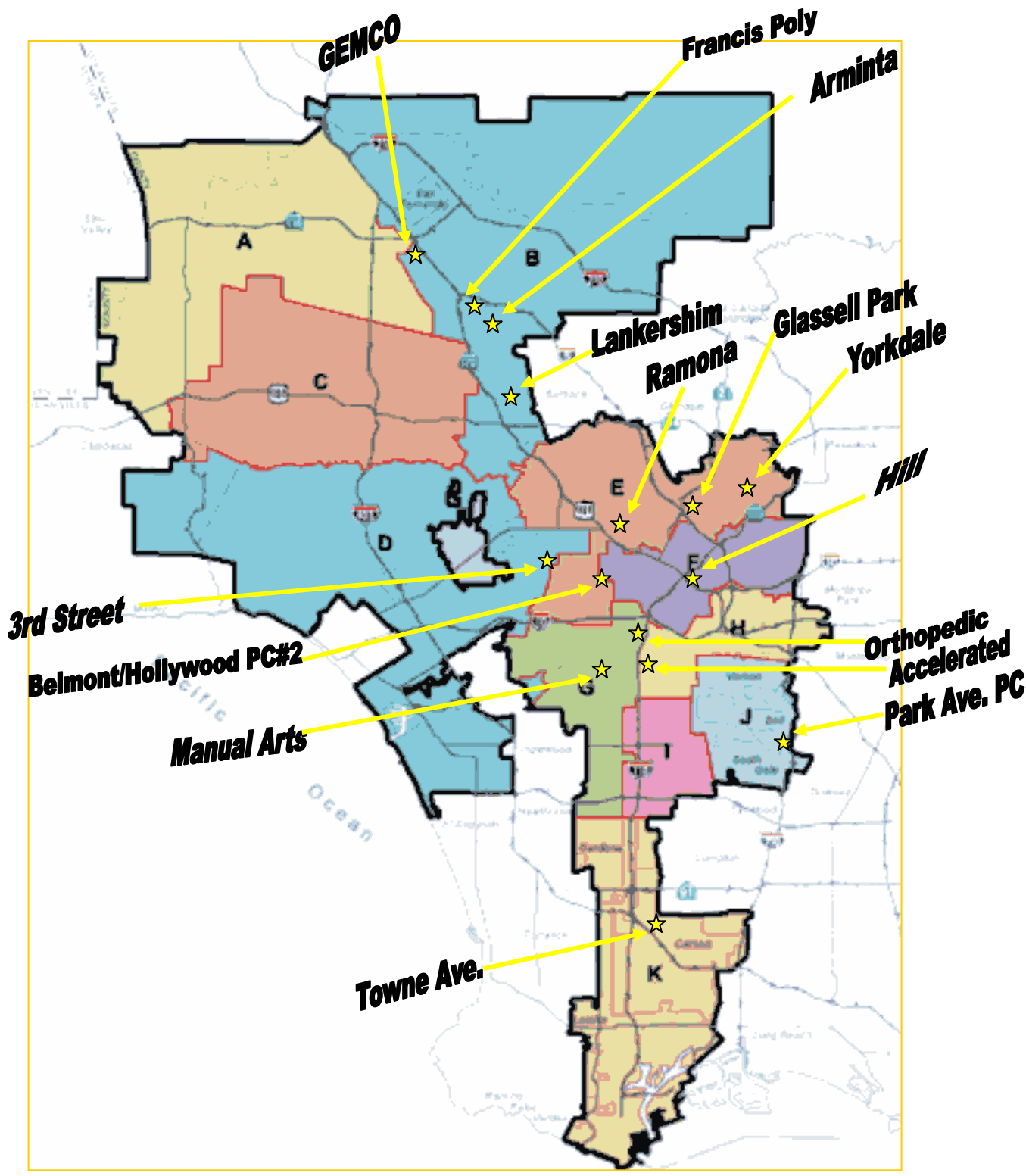


Figure 1
 LAUSD Sites Where Arsenic
 Data Were Obtained
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APPENDIX A

LAUSD ARSENIC DATABASE INCLUSION/EXCLUSION MATRIX

Appendix A
School Inclusion / Exclusion Matrix

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Belmont-Hollywood PC#2	SS-1	SS1-1	12/14/1999				yes		1	5.7	19.5	220	1.8	ML (Af)	olive brn
	SS-1	SS1-5	12/14/1999				yes		5	4.0	17.6	7.2	1.6	ML (Af)	dk olive brn
	SS-2	SS2-1	12/14/1999				yes		1	5.2	18.9	41.1	2.1	ML (Af)	olive brn
	SS-2	SS2-5	12/14/1999				yes		5	4.0	14.8	95.0	1.7	ML (Af)	olive brn
	SS-3	SS3-1	12/14/1999				yes		1	4.8	14.2	206	1.6	ML (Af)	dk olive brn
	SS-3	SS13-1	12/14/1999	yes			yes		1	4.5	18.4	30.5	1.2	ML (Af)	dk olive brn
	SS-3	SS3-5	12/14/1999						5	2.5	15.4	9.3	1.1	SP (Undif)	reddish brn
	SS-4	SS4-1	12/14/1999				yes		1	6.7	22.2	10.5	4.3	ML (Af)	olive brn
	SS-4	SS4-5	12/14/1999				yes		5	10.3	25.1	5.7	11.7	ML (Af)	pale olive gray
	SS-5	SS5-1	12/15/1999				yes		1	4.2	14.7	5.7	2.4	ML (Af)	lt olive brn
	SS-5	SS5-5	12/15/1999						5	1.9	3.3	2.5	0.79	SM (Undif)	lt olive brn
	SS-6	SS6-1	12/15/1999				yes		1	8.0	22.4	8.9	5.1	ML (Undif)	lt olive brn
	SS-6	SS6-5	12/15/1999				yes		5	8.1	22.0	5.2	9.2	ML (Undif)	lt olive brn
	SS-6	SS16-5	12/15/1999	yes					5	3.1	19.4	6.0	4.9	ML (Undif)	lt olive brn
	SS-7	SS7-2	12/14/1999						2	2.5	8.8	5.7	2.2	ML (Undif)	lt olive gray
	SS-7	SS7-5	12/14/1999						5	2.0	8.8	4.4	5.9	ML (Undif)	lt olive gray

Notes:

Site was former residential lot. Site-wide presence of rebar and metal debris in on-site fill material (PEA Rept., page 6-18).

Geophysical survey mapped large stockpiles and site-wide presence of non-soil artificial fill containing rubble and metal debris (Appendix G in PEA Workplan).

Artificial fill having elevated arsenic also exhibits highest detected concentrations of alloy metals

(i.e., chromium, lead, molybdenum, etc.), further indicative of metal debris in non-soil fill.

Reports reviewed: PEA Workplan (Dames & Moore, 12/3/99); PEA Report (Dames & Moore, 2/1/2000)

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Towne Ave	DP-1	DP-1	12/4/1999						0.5	2.21						
		DP-1	12/4/1999						5.5	3.5						
		DP-1	12/4/1999						10.0	4.7						
	DP-2	DP-1	12/4/1999		yes				12.0	5.0						
		DP-2	12/4/1999						0.5	2.8						
		DP-2	12/4/1999						5.0	2.4						
	DP-3	DP-2	12/4/1999						10.0	1.1						
		DP-2	12/4/1999						12.0	3.3						
		DP-3	12/4/1999						0.5	1.7						
	DP-3	DP-3dup	12/1/1999		yes				5.0	2.2						
		DP-3	12/5/1999						5.0	2.1						
		DP-3	12/4/1999						10.0	3.1						
	DP-3	DP-3dup	12/5/1999		yes				10.0	5.6						
		DP-3	12/4/1999			yes			12.0	3.0						
		DP-3dup	12/5/1999		yes	yes			12.0	4.8						
	DP-4	DP-4	12/5/1999						0.5	2.1						
		DP-4	12/5/1999						5.0	2.7						
		DP-4	12/5/1999						10.0	5.0						
	DP-4	DP-4	12/5/1999						12.0	5.9						
		VM-1	11/27/1999						2.0	2.5						
		VM-1	11/27/1999						5.0	1.5						
	VM-1	VM-1	11/27/1999						10.0	4.5						
		VM-2	11/26/1999						0.5	2.2						
		VM-2	11/26/1999						5.0	4.7						
	VM-2	VM-2	11/26/1999						10.0	3.6						
		VM-2	11/26/1999						15.0	3.5						
		VM-2	11/26/1999			yes			0.5	2.2						
	VM-3	VM-3	11/27/1999						5.0	3.5						
		VM-3	11/27/1999						10.0	4.7						
		VM-3	11/27/1999						12.0	4.9						
	VM-4	VM-4	11/26/1999						0.5	2.1						
		VM-4	11/26/1999						10.0	4.4						
		VM-4	11/26/1999						15.0	5.6						
	VM-4	VM-4	11/26/1999						20.0	5.3						
		VM-5	11/26/1999						0.5	2.0						
		VM-5	11/26/1999						5.5	3.6						
	VM-5	VM-5	11/26/1999						10.0	5.4						
		VM-5	11/26/1999						15.0	4.3						
		VM-5	11/26/1999			yes			0.5	3.1						
	VM-6	VM-6	11/26/1999						5.0	2.8						
		VM-6	11/26/1999						10.0	4.2						
		VM-6	11/26/1999						15.0	6.1						
VM-7	VM-7	11/26/1999						0.5	2.5							
	VM-7	11/26/1999						5	2.8							
	VM-7	11/26/1999						10.0	4.5							
VM-7	VM-7dup	11/26/1999		yes				10.0	5.6							
	VM-7	11/26/1999						15.0	4.0							

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Towne Ave. Cont.	VM-8	VM-8	11/27/1999						0.5	2.0						
		VM-8	11/27/1999						5.0	3.2						
		VM-8	11/27/1999						10.0	2.5						
		VM-8	11/27/1999		yes				15.0	4.9						
	VM-9	VM-9	11/27/1999						0.5	2.4						
		VM-9	11/27/1999						5.0	2.3						
		VM-9	11/27/1999						10.0	3.1						
		VM-9	11/27/1999						15.0	3.7						
	VM-10	VM-10	11/27/1999						0.5	2.8						
		VM-10dup	11/27/1999	yes					0.5	2.8						
		VM-10	11/27/1999						5.0	1.2						
		VM-10	11/27/1999						10.0	3.3						
		VM-10	11/27/1999						15.0	3.1						
		VM-10	11/27/1999						15.0	3.1						

Notes:

Site is adjacent to former BKK landfill (currently Victoria Park [west of site] and Victoria Golf Course [south of site]).
 BKK landfill boundaries and depth are unknown.
 Site was used by BKK during landfill operations (for office trailer space).
 PEA Report text indicates all boring locations encountered at least 1 foot of artificial fill (pg 18, PEA Report).
 On-site pre-landfill topography (per old aerial photos) likely required significant fill to attain current on-site level conditions.
 Most soil data probably reflects artificial fill, possibly placed by BKK for landfill support operations. Location, depth, and origin of fill unknown.
 All soil matrix samples had detected CrVI (100's ug/kg) and mercury (10's ug/kg).
 Reports reviewed: Draft PEA Workplan (IT Corp, 11/99); Final PEA Report (IT Corp, 4/19/01)

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Manual Arts Elementary School #1	SS-01	SS-01-6.0	2/2/2000					yes	6	<0.750				SM Qal		
		SS-01-10	2/2/2000					yes	10	<0.750				SP		
	SS-02	SS-02-6.0	2/1/2000					yes	6	<0.750				SM Qal		
		SS-02-9.5	2/1/2000					yes	10	<0.750				SP		
	SS-03	SS-03-5.5	2/2/2000					yes	6	<0.750				SM Qal		
		SS-03D-6.0	2/2/2000	yes				yes	6	<0.750				SM Qal		
		SS-03-10.5	2/2/2000		yes			yes	11	<0.750						
	SS-04	SS-04-5.0	2/2/2000					yes	5	<0.750					SM Qal	
		SS-04-10.5	2/2/2000			yes		yes	11	<0.750						
	SS-05	SS-05-5.5	2/2/2000					yes	6	<0.750					SM Qal	
		SS-05-10.5	2/2/2000			yes		yes	11	<0.750						
	SS-06	SS-06-0.5	2/2/2000					yes	0.5	0.642					SM Qal	
		SS-06-5.0	2/2/2000					yes	5	0.199					SM Qal	
	SS-07	SS-07-0.5	2/2/2000					yes	0.5	<0.750					SM Qal	
		SS-07D-1.0	2/2/2000	yes				yes	1	0.735					SM Qal	
		SS-07-5.0	2/2/2000					yes	5	<0.750					Sm Qal	
	SS-08	SS-08-0.5	2/2/2000					yes	0.5	2.77					SM Qal	
		SS-08-5.0	2/2/2000					yes	5	<0.750					SP	
	SS-09	SS-09-6.0	2/1/2000					yes	6	<0.750					SM Qal	
		SS-09-10	2/1/2000					yes	10	<0.750					SP	
	SS-10	SS-10-5.5	2/1/2000					yes	6	<0.750					SM Qal	
		SS-10-9.5	2/1/2000					yes	10	<0.750					SP	
		SS-10D-10	2/1/2000	yes				yes	10	<0.750					SP	
	SS-11A	SS-11A-5.0	2/1/2000					yes	5	4.71					SM Qal	
		SS-11A-9.5	2/1/2000					yes	10	4.21					SP	
		SS-11A-14.5	2/1/2000			yes		yes	15	0.797						
		SS-11A-19.5	2/1/2000			yes		yes	20	<0.750						
		SS-11AD-20	2/1/2000	yes	yes			yes	20	<0.750						
	SS-11B	SS-11B-4.5	2/1/2000					yes	5	<0.750					SM Qal	
		SS-11B-10.5	2/1/2000			yes		yes	11	0.604						
		SS-11B-15	2/1/2000			yes		yes	15	<0.750						
		SS-11B-19.5	2/1/2000			yes		yes	20	<0.750						
	SS-12	SS-12-0.5	1/31/2000					yes	0.5	<0.750					SM Qal	
		SS-12-5.0	1/31/2000					yes	5	<0.750					SP	
	SS-13	SS-13-0.5	1/31/2000					yes	0.5	<0.750					SM Qal	
		SS-13-5.0	1/31/2000					yes	5	<0.750					SP	
	SS-14	SS-14-0.5	1/31/2000					yes	0.5	<0.750					SM Qal	
		SS-14-4.5	1/31/2000					yes	5	<0.750					SP	
SS-15	SS-15-0.5	1/31/2000					yes	0.5	<0.750					SM Qal		
	SS-15-4.5	1/31/2000					yes	5	<0.750					SP		
	SS-15D-5.0	1/31/2000	yes				yes	5	<0.750					SP		
SS-16	SS-16-0.5	1/31/2000					yes	0.5	<0.750					SM Qal		
	SS-16-4.5	1/31/2000					yes	5	<0.750					SP		
	SS-16D-5.0	1/31/2000	yes				yes	5	<0.750					SP		
SS-17	SS-17-0.5	1/31/2000					yes	0.5	0.269					SM Qal		
	SS-17-4.5	1/31/2000					yes	5	0.239					SP		
SS-18	SS-18-0.5	1/31/2000					yes	0.5	<0.750					SM Qal		

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Manual Arts Elementary School #1 Cont.	SS-19	SS-18-5.0	1/31/2000					yes	5	<0.750				SM Qal	
		SS-18D-5.5	1/31/2000	yes				yes	6	<0.750				SM Qal	
	SS-20	SS-19-0.5	1/31/2000					yes	0.5	<0.750				SM Qal	
		SS-19D-1.0	1/31/2000	yes				yes	1	<0.750				SM Qal	
	SS-21	SS-19-4.5	1/31/2000					yes	5	0.203				SP	
		SS-20-0.5	1/31/2000					yes	0.5	<0.750				SM Qal	
	SS-22	SS-20-4.5	1/31/2000					yes	5	<0.750				SP	
		SS-21-0.5	1/31/2000					yes	0.5	<0.750				SM Qal	
	SS-23	SS-21-4.5	1/31/2000					yes	5	<0.750				SP	
		SS-22-0.5	1/31/2000					yes	0.5	<0.750				SM Qal	
	SS-24	SS-22-5.0	1/31/2000					yes	5	0.536				SP	
		SS-23-1.0	1/31/2000					yes	1	<0.750				SM Qal	
	SS-25	SS-23-4.5	1/31/2000					yes	5	<0.750				SP	
		SS-24-0.5	1/31/2000					yes	0.5	<0.750				SM Qal	
			SS-24-4.5	1/31/2000				yes	5	<0.750				SP	
			SS-25-0.5	1/31/2000				yes	0.5	<0.750				SM Qal	
			SS-25-4.5	1/31/2000				yes	5	<0.750				SP	

Notes:
 Report reviewed: Final PEA Report (URS, May 3, 2000). No PEA Workplan available for review.
 Appendix G tabulated arsenic concentrations often do not match Table 6 reported arsenic concentrations.
 Arsenic concentrations reported in this spreadsheet are from PEA Rept's laboratory certified analytical reports (Appendix K).
 Site is located at CA Science Center (former Coast Guard Armory)
 No mention of non-soil artificial fill in PEA Rept cross section or boring logs.

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Yorkdale	SP-1	SP-1@6'	10/25/1999			yes		yes	6	69						
	SP-2	SP-2@10'	10/25/1999			yes		yes	10	64						
	SP-3	SP-3@14'	10/25/1999		yes	yes		yes	14	49						
	B-1	B-1@5'	12/1/1999					yes	5	4.40				sandy silt	brown	
		B-1@10'	12/1/1999					yes	10	2.50					silty sand	brown
		B-1@15'	12/1/1999		yes			yes	15	3.07					silty sand	
	B-2	B-2@5'	12/1/1999					yes	5	3.83					sandy silt	red brown
		B-2@10'	12/1/1999					yes	10	5.63					sandy silt	red brown
		B-2@13'	12/1/1999		yes			yes	13	3.73					sandy silt	red brown
	B-3	B-3@5'	12/1/1999					yes	5	3.76					clay silt	brown
		B-3@10'	12/1/1999					yes	10	5.14					sandy silt	brown
		B-3@13'	12/1/1999		yes			yes	13	3.45					sandy silt	red brown
	B-4	B-4@5'	12/1/1999					yes	5	3.27					silty sand	red brown
		B-4@10'	12/1/1999					yes	10	2.75					sand	brown
		B-4@15'	12/1/1999		yes			yes	15	3.39					silty sand	brown
	B-5	B-5@5'	12/1/1999					yes	5	4.54					sandy silt	red brown
		B-5@10'	12/1/1999					yes	10	2.75					silty sand	red brown
		B-5@13'	12/1/1999		yes			yes	13	3.86					sand	brown
	SS-1	SS-1-2.5	5/20/2000					yes	2.5	1.88					SC	red brown
		SS-1-5	5/20/2000					yes	5	2.19					SC	red brown
		SS-1-10	5/20/2000					yes	10	2.13					SC	red brown
		SS-1-15	5/20/2000		yes			yes	15	1.84					CL	gry brown
	SS-2	SS-2-2.5	5/20/2000					yes	2.5	2.12					SC	red brown
		SS-2-5	5/20/2000					yes	5	2.03					SC	red brown
		SS-2-10	5/20/2000					yes	10	1.88					CL	red brown
		SS-2-15	5/20/2000		yes			yes	15	1.39					SC	red brown
	SS-3	SS-3-2.5	5/20/2000					yes	2.5	2.05					SC	red brown
		SS-3-5	5/20/2000					yes	5	2.05					SC	red brown
		SS-3-10	5/20/2000					yes	10	1.89					SC	red brown
		SS-3-15	5/20/2000		yes			yes	15	1.62					SC	red brown
	SS-4	SS-4-2.5	5/20/2000					yes	2.5	2.02					SC	red brown
		SS-4-5	5/20/2000					yes	5	2.46					SC	red brown
		SS-4-10	5/20/2000					yes	10	1.78					SC	red brown
		SS-4-15	5/20/2000		yes	yes		yes	15	2.18					CL	red brown
		SS-18-15	5/20/2000		yes	yes		yes	15	1.53					CL	red brown
	SS-10	SS-10-2.5	5/20/2000					yes	2.5	2.13					SC	red brown
		SS-10-5	5/20/2000					yes	5	2.04					SC	red brown
		SS-10-10	5/20/2000					yes	10	2.23					SC	red brown
		SS-19-10	5/20/2000		yes			yes	10	1.77					SC	red brown
		SS-10-15	5/20/2000			yes		yes	15	2.09					SC	red brown
	SS-11	SS-11-0.5	5/20/2000					yes	0.5	1.6					SC	red brown
	SS-11-2.5	5/20/2000					yes	2.5	2.62					SC	red brown	
	SS-11-5	5/20/2000					yes	5	1.89					SC	red brown	
	SS-11-10	5/20/2000					yes	10	0.0173					SC	red brown	
							(QC issues)									
		SS-11-15	5/20/2000		yes			yes	15	2.67				SC	red brown	
	SS-13	SS-13-0.5	5/20/2000					yes	0.5	1.88				SC	red brown	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Yorkdale Cont.	SS-14	SS-13-2.5	5/20/2000					yes	2.5	1.92				SC	red brown	
		SS-13-5	5/20/2000					yes	5	2.26				SC	red brown	
		SS-13-10	5/20/2000					yes	10	2.09				SC	red brown	
		SS-13-15	5/20/2000	yes				yes	15	2.29				CL	dk gray brown	
		SS-14-0.5	5/20/2000					yes	0.5	1.44				CL	dk gray brown	
		SS-14-2.5	5/20/2000					yes	2.5	2.01				SC	red brown	
		SS-14-5	5/20/2000					yes	5	2.04				CL	red brown	
		SS-14-10	5/20/2000					yes	10	1.50				CL	red brown	
		SS-14-15	5/20/2000	yes				yes	15	1.64				CL	red brown	
	SS-15	SS-15-0.5	5/21/2000					yes	0.5	<0.200					SC	red brown
		SS-15-3	5/21/2000					(QC issues) yes	3	<0.200					SC	red brown

Notes

Former brick-lined seepage pit excavation (arsenic is a COPC) located 1' from borings SS-1 through SS-4 (URS, 6/7/00) and B-1 through B-5 (Hydrologue, 12/6/99).
 Seepage pit was excavated to 14' bgs due to metals (including arsenic) impacts.
 Seepage pit excavation was backfilled with cement slurry with upper 43" of artificial fill.
 Samples SP-1 through SP-3 collected from metals-impacted soil excavated from seepage pit (Hydrologue, 10/27/99).
 Samples from borings SS-13 and SS-14 were re-analyzed for metals and reported in CAR dated 6/1/00 (URS, 6/7/00).
 Boring SS-15 samples are from seepage pit excavation backfill (backfill source not specified, URS, 6/7/00).
 Reports reviewed: Limited Soil Sampling and Analytical Testing (hydrologue, 10/27/99); Additional Soil Investigation Sampling and Analytical Testing (hydrologue, 12/6/99);
 and Response to DTSC Comments (hydrologue, 4/24/00); and Supplemental Subsurface Investigation (URS, 6/7/00).

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Ramona New Elementary School	SS-01	SS-1-1	10/26/2000					yes	1	<0.750						
		SS-15-1	10/26/2000	yes				yes	1	<0.750						
	SS-02	SS-1-5	10/26/2000					yes	5	<0.750						
		SS-2-1	10/26/2000					yes	1	<0.750						
	SS-03	SS-2-5	10/26/2000					yes	5	<0.750						
		SS-3-1	10/26/2000					yes	1	<0.750						
	SS-04	SS-3-5	10/26/2000					yes	5	<0.750						
		SS-4-1	10/26/2000					yes	1	<0.750						
	SS-05	SS-4-5	10/26/2000					yes	5	<0.750						
		SS-5-1	10/26/2000					yes	1	3.75						
	SS-06	SS-5-5	10/26/2000					yes	5	<0.750						
		SS-6-1	10/26/2000					yes	1	<0.750						
	SS-07	SS-6-5	10/26/2000					yes	5	<0.750						
		SS-7-1	10/26/2000					yes	1	<0.750						
	SS-08	SS-7-5	10/26/2000					yes	5	<0.750						
		SS-8-1	10/26/2000					yes	1	<0.750						
	SS-09	SS-8-5	10/26/2000					yes	5	<0.750						
		SS-14-5	10/26/2000	yes				yes	5	<0.750						
	SS-10	SS-9-1	10/26/2000					yes	1	<0.750						
		SS-9-5	10/26/2000					yes	5	<0.750						
	SS-11	SS-10-1	10/26/2000					yes	1	<0.750						
		SS-10-5	10/26/2000					yes	5	<0.750						
	SS-12	SS-11-1	10/26/2000					yes	1	<0.750						
		SS-11-5	10/26/2000					yes	5	<0.750						
	SS-13	SS-12-1	10/26/2000					yes	1	<0.750						
		SS-18-1	10/26/2000	yes				yes	1	<0.750						
	BG-1	SS-12-5	10/26/2000					yes	5	<0.750						
		SS-13-1	10/26/2000					yes	1	<0.750						
	BG-2	SS-13-5	10/26/2000					yes	5	<0.750						
		BG-1-1	12/7/2000					yes	1	<0.750						
	BG-4	BG-1-3	12/7/2000					yes	3	0.262						
		BG-2-1	12/7/2000					yes	1	<0.750						
BG-5	BG-2-5	12/7/2000					yes	5	<0.750							
	BG-4-1	12/7/2000					yes	1	2.31							
	BG-4-3	12/7/2000					yes	3	0.456							
	BG-5-1	12/7/2000					yes	1	<0.750							
	BG-5-3	12/7/2000					yes	3	<0.750							

Notes:

No mention of presence of non-soil artificial fill in boring logs or text of PEA Report.

Report reviewed: PEA Report (URS, 3/9/01).

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Arminta	ARM-NP-1	ARM-NP-1	6/4/2000					yes	0.5	3.15	8.07	2.06	4.24	SP (AI)		
		ARM-NP-1	6/4/2000					yes	5	0.72	4.05	1.75	4.24	SW (AI)		
		ARM-NP-1	6/4/2000					yes	10	0.379	3.43	1.72	4.26	SW (AI)		
	ARM-NP-2	ARM-NP-2	6/3/2000					yes	0.5	2.03	12.5	6.05	4.31	SP (AI)		
		ARM-NP-2	6/3/2000					yes	5.5	0.572	2.51	1.55	4.39	SW (AI)		
		ARM-NP-2	6/3/2000	yes				yes	10.5	2.54	2.86	2.34	4.21	SW (AI)		
	ARM-SB-1	ARM-SB-1	6/10/2000					yes	0.5	1.41	10.9	2.74	1.55	SP (AI)		
		ARM-SB-1	6/10/2000					yes	5	0.865	6.66	1.34	4.15	SP (AI)		
		ARM-SB-1	6/10/2000					yes	10	1.08	8.3	2.28	0.912	SP (AI)		
	ARM-SB-2	ARM-SB-2	6/10/2000					yes	0.5	1.45	13.4	57.4	0.944	ML (AI)		
		ARM-SB-2	6/10/2000					yes	5	0.263	3.71	1.22	4.09	SP (AI)		
		ARM-SB-2	6/10/2000					yes	10	0.858	5.87	1.96	4.16	SW (AI)		
	ARM-SB-3	ARM-SB-3	6/10/2000					yes	0.5	5.9	14.9	38.3	4.3	SM (AI)		
		ARM-SB-3	6/10/2000					yes	5	0.518	5.18	2.52	4.13	SP (AI)		
		ARM-SB-3	6/10/2000					yes	10	0.309	5.71	1.21	4.15	SP (AI)		
	ARM-SB-4	ARM-SB-4	6/10/2000					yes	0.5	1.47	13.4	7.68	4.27	SP (AI)		
		ARM-SB-4	6/10/2000					yes	5	0.6	6.84	1.47	4.06	SP (AI)		
		ARM-SB-4	6/10/2000	yes				yes	5	0.418	7.32	2.77	1.09	SP (AI)		
	ARM-SB-5	ARM-SB-5	6/10/2000					yes	10	0.846	9.33	3.92	4.12	SP (AI)		
		ARM-SB-5	6/10/2000					yes	0.5	3.41	10	2.04	4.19	SP (AI)		
		ARM-SB-5	6/10/2000					yes	5	0.528	3.88	1.46	4.11	SP (AI)		
	ARM-SB-6	ARM-SB-6	6/10/2000					yes	10	0.801	6.83	1.69	4.15	SP (AI)		
		ARM-SB-6	6/3/2000					yes	0.5	1.32	14.2	2.97	4.45	ML (AI)		
		ARM-SB-6	6/3/2000					yes	5	1.96	8.33	3.02	4.21	SP (AI)		
		FP-PKBKG-2	FP-PKBKG-2	12/30/1999					yes	10	0.261	3.64	1.89	4.62	SP (AI)	
		FP-PKBKG-2	FP-PKBKG-2	12/30/1999						2	<1.06	6.41	1.34	<4.22	undif	
		FP-PKBKG-3	FP-PKBKG-3	12/30/1999						2	1.26	7.25	1.52	<4.09	undif	
		FP-PKBKG-3	FP-PKBKG-3	12/30/1999	yes					2	<1.02	6.84	1.33	<4.09	undif	
		FP-RB-1	FP-RB-1	12/30/1999						2	1.64	16.5	13.8	<4.24	undif	
		FP-RB-2	FP-RB-2	12/30/1999						2	1.6	15.9	2.61	<4.73	undif	

Notes:

Former Penrose Landfill adjacent north of site.

No mention of on-site non-soil artificial fill in boring logs or cross section

Data from: PEA Rept, Final, Revision 1 (IT Corp., 4/2001). No analytical data in PEA Workplan (IT Corp., 5/2000)

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Francis Polytechnic	FP-DP-1	FP-DP-1	12/27/1999						0.5	2.92				ML	olive 5Y 5/4
	FP-DP-1	FP-DP-1	12/27/1999						4.0	<1.05				ML	olive 5Y 5/4
	FP-DP-1	FP-DP-1	12/27/1999						8.0	<1.06				SP	olive 5Y 5/4
	FP-DP-2	FP-DP-2	12/27/1999						0.5	5.19				ML	olive 5Y 5/4
	FP-DP-2	FP-DP-2	12/27/1999						4.0	<1.08				ML	olive 5Y 5/4
	FP-DP-2	FP-DP-2	12/27/1999						8.0	<1.05				SP	olive 5Y 5/4
	FP-DP-2	FP-DP-2	12/27/1999	yes					8.0	1.08				SP	olive 5Y 5/4
	FP-DP-20	FP-DP-20	12/30/1999						0.5	<1.03				SM	brown
	FP-DP-20	FP-DP-20	12/30/1999	yes					0.5	2.21				SM	brown
	FP-DP-20	FP-DP-20	12/30/1999						4.0	<1.02				SP	lt gray-brown
	FP-DP-20	FP-DP-20	12/30/1999						8.0	<1.02				SP	lt gray-brown
	FP-DP-21	FP-DP-21	12/30/1999						0.5	<1.03				SM	brown
	FP-DP-21	FP-DP-21	12/30/1999						4.0	<1.01				SP	lt gray-brown
	FP-DP-21	FP-DP-21	12/30/1999						8.0	<1.02				SP	lt gray-brown
	FP-DP-22	FP-DP-22	12/30/1999						0.5	<1.06				SM	brown
	FP-DP-22	FP-DP-22	12/30/1999						4.0	<1.25				SM	brown
	FP-DP-22	FP-DP-22	12/30/1999						8.0	<1.03				SP	lt gray-brown
	FP-DP-3	FP-DP-3	12/27/1999						0.5	4				ML	olive 5Y 5/4
	FP-DP-3	FP-DP-3	12/27/1999						4.0	<1.05				ML	olive 5Y 5/4
	FP-DP-3	FP-DP-3	12/27/1999						8.0	1.07				SP	olive 5Y 5/4
	FP-DP-4	FP-DP-4	12/27/1999						0.5	5.19				ML	olive 5Y 5/4
	FP-DP-4	FP-DP-4	12/27/1999						4.0	<1.02				ML	olive 5Y 5/4
	FP-DP-5	FP-DP-5	12/28/1999						surface	2.19				SM	dk brown
	FP-DP-5	FP-DP-5	12/28/1999						4.0	1.45				SM	gray brown
	FP-DP-5	FP-DP-5	12/28/1999						8.0	1.07				SP	lt gray
	FP-DP-6	FP-DP-6	12/28/1999						surface	2.13				SM	dk brown
	FP-DP-6	FP-DP-6	12/28/1999						4.0	<1.06				SP	lt gray
	FP-DP-6	FP-DP-6	12/28/1999						8.0	<1.04				SP	lt gray-brown
	FP-DP-7	FP-DP-7	12/28/1999						0.2	1.94				SP	lt gray-brown
	FP-DP-7	FP-DP-7	12/28/1999						4.0	<1.01				SP	lt gray
	FP-DP-7	FP-DP-7	12/28/1999						8.0	<1.02				SP	lt gray
	FP-DP-8	FP-DP-8	12/28/1999						surface	2.87				SM	?
	FP-DP-8	FP-DP-8	12/28/1999	yes					surface	<1.13				SM	?
	FP-DP-8	FP-DP-8	12/28/1999						4.0	<1.08				SP	lt gray-brown
	FP-DP-8	FP-DP-8	12/28/1999						8.0	<1.05				SP	lt gray
	FP-DP-9	FP-DP-9	12/28/1999						surface	<1.02				SM	?
	FP-DP-9	FP-DP-9	12/28/1999						4.0	<1.03				SP	lt gray-brown
	FP-DP-9	FP-DP-9	12/28/1999						8.0	<1.02				SP	lt gray
	FP-DP-10	FP-DP-10	12/29/1999						surface	3.09				SM	?
	FP-DP-10	FP-DP-10	12/29/1999	yes					surface	2.74				SM	?
	FP-DP-10	FP-DP-10	12/29/1999						4.0	<1.02				SP	lt gray
	FP-DP-10	FP-DP-10	12/29/1999						8.0	<1.02				SP	lt gray
FP-DP-11	FP-DP-11	12/29/1999						surface	1.57				SM	brown	
FP-DP-11	FP-DP-11	12/29/1999						4.0	<1.02				SP	lt gray	
FP-DP-11	FP-DP-11	12/29/1999						8.0	1.59				SP	lt gray-brown	
FP-DP-12	FP-DP-12	12/29/1999						surface	2.64				SM	brown	
FP-DP-12	FP-DP-12	12/29/1999						4.0	<1.02				SP	lt gray-brown	

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Francis Polytechnic Cont.	FP-DP-12	FP-DP-12	12/29/1999						8.0	<1.03				SP	lt gray	
	FP-DP-13	FP-DP-13	12/29/1999						surface	<1.07				SP	lt gray-brown	
	FP-DP-13	FP-DP-13	12/29/1999						4.0	<1.02				SP	lt gray-brown	
	FP-DP-13	FP-DP-13	12/29/1999						8.0	1.21				SP	lt gray-brown	
	FP-DP-14	FP-DP-14	12/29/1999						surface	<1				SP	lt gray	
	FP-DP-14	FP-DP-14	12/29/1999						4.0	<1.05				SP	lt gray-brown	
	FP-DP-14	FP-DP-14	12/29/1999						8.0	<1.02				SP	lt gray-brown	
	FP-DP-15	FP-DP-15	12/29/1999						surface	1.58				SP	lt gray-brown	
	FP-DP-15	FP-DP-15	12/29/1999	yes					surface	<1.05				SP	lt gray-brown	
	FP-DP-15	FP-DP-15	12/29/1999						4.0	<1.06				SP	lt gray-brown	
	FP-DP-15	FP-DP-15	12/29/1999						8.0	1.15				SP	lt brown	
	FP-DP-16	FP-DP-16	12/29/1999						surface	<1.08				SP	lt gray-brown	
	FP-DP-16	FP-DP-16	12/29/1999						4.0	<1.07				SP	lt gray-brown	
	FP-DP-16	FP-DP-16	12/29/1999						8.0	<1.03				SP	lt gray-brown	
	FP-DP-17	FP-DP-17	12/30/1999						0.5	1.75				SM	brown	
	FP-DP-17	FP-DP-17	12/30/1999	yes					0.5	3.65				SM	brown	
	FP-DP-17	FP-DP-17	12/30/1999						4.0	1.34				SP	brown	
	FP-DP-17	FP-DP-17	12/30/1999						8.0	<1.04				SP	lt gray-brown	
	FP-DP-18	FP-DP-18	12/30/1999						0.5	1.92				SM	lt brown	
	FP-DP-18	FP-DP-18	12/30/1999						5.0	<1.01				SP	lt gray-brown	
	FP-DP-18	FP-DP-18	12/30/1999						8.0	<1.02				SP	lt gray-brown	
	FP-DP-19	FP-DP-19	12/30/1999						0.5	1.2				SP	lt gray-brown	
	FP-DP-19	FP-DP-19	12/30/1999						5.0	<1.04				SP	lt gray-brown	
	FP-DP-19	FP-DP-19	12/30/1999						8.0	<1.03				SW	lt gray-brown	
	FP-VM-1	FP-VM-1	12/28/1999		yes				30.0	<1.07				SP	?	
	FP-VM-1	FP-VM-1	12/28/1999		yes				40.0	<1.04				SP	?	
	FP-VM-2	FP-VM-2	12/29/1999		yes				15.5	<1.02				SP	olive 5Y 5/4	
	FP-VM-2	FP-VM-2	12/29/1999		yes				20.0	<1.02				SP	olive 5Y 5/4	
	FP-PKBKG-2	FP-PKBKG-2	12/30/1999						2.0	<1.06						
	FP-PKBKG-3	FP-PKBKG-3	12/30/1999						2.0	1.26						
	FP-PKBKG-3	FP-PKBKG-3	12/30/1999	yes					2.0	<1.02						
	FP-RB-1	FP-RB-1	12/30/1999						2.0	1.64						
FP-RB-2	FP-RB-2	12/30/1999						2.0	1.6							

Note:
 Former Sheldon Arleta Landfill north of the site.
 No certified analytical report (PEA Rept. Vol. 2) available to verify tabulated data.
 No mention of on-site nonsoil artificial fill in boring logs or cross section
 Data from: PEA Rept, Draft Final (IT Corp., 8/2000). No analytical data in PEA Workplan (IT Corp., 12/99)

Appendix A
School Inclusion / Exclusion Matrix

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Third Street	THIRD-SM-1	THIRD-SM-1	7/26/2000						0.5	1.34				CL	dk brown
	THIRD-SM-1	THIRD-SM-1	7/26/2000						4.0	5.08				SC	mottled brown
	THIRD-SM-2	THIRD-SM-2	7/26/2000						0.5	1.34				SM/SC	
	THIRD-SM-2	THIRD-SM-2	7/26/2000	yes					0.5	1.88				SM/SC	
	THIRD-SM-2	THIRD-SM-2	7/26/2000						5.0	1.26				SC	orange-brown
	THIRD-SM-2	THIRD-SM-2	7/26/2000						9.0	2.44				CL	brown
	THIRD-SM-1A	THIRD-SM-1A	7/26/2000						9.0	1.51				SP/SM	orange-brown
	THIRD-BKG-1	THIRD-BKG-1	8/3/2000						4.5	2.56					
	THIRD-BKG-2	THIRD-BKG-2	8/3/2000						5.0	1.59					
	THIRD-BKG-3	THIRD-BKG-3	8/3/2000						5.0	1.51					
	THIRD-BKG-4	THIRD-BKG-4	8/3/2000						5.0	2.37					
	THIRD-BKG-5	THIRD-BKG-5	8/3/2000						5.0	1.82					

Notes:

Site has a naturally occurring oil seep which is collected in an on-site oil-collection vault sump.

Two oil wells were once present onsite. Sample SM-1 is near former oil well #244 currently in grassy area.

Arsenic in oil from sump (sampled in 9/99) ranged from 2.03 to 3.68 mg/kg (two samples collected).

No certified analytical report (PEA Rept. Vol. 2) available to verify tabulated data.

Report reviewed: Final PEA Report, Volume 1 (IT Corp, 5/01)

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Glassell Park Primary Center	SS-1	SS-1-0.5	11/30/1999					yes	1	1.38				SC	lt brown
	SS-1	SS-1-4.5	11/30/1999					yes	5	1.35				SM/ML	lt brown
	SS-2	SS-2-0.5	11/30/1999					yes	1	2.35				SC	lt brown
	SS-2	SS-2-4.5	11/30/1999					yes	5	1.93				CL	dk brown
	SS-3	SS-3-0.5	11/30/1999					yes	1	1.79				SM	lt brown
	SS-3	SS-18-1	11/30/1999	yes				yes	1	0.158				SM	lt brown
	SS-3	SS-3-4.5	11/30/1999					yes	5	2.76				CL	dk brown
	SS-4	SS-4-0.5	11/30/1999					yes	1	1.20				SC	dk gray
	SS-4	SS-4-4.5	11/30/1999					yes	5	0.851				CL	dk gray
	SS-5	SS-5-0.5	11/30/1999					yes	1	1.30				CL	dk brown
	SS-5	SS-5-4.5	11/30/1999					yes	5	1.46				CL	dk brown
	SS-6	SS-6-0.5	11/30/1999					yes	1	2.41				CL	dk brown
	SS-6	SS-6-4.5	11/30/1999					yes	5	3.57				ML	lt brown
	SS-7	SS-7-0.5	11/30/1999					yes	1	1.88				CL	dk brown
	SS-7	SS-17-1	11/30/1999	yes				yes	1	1.91				CL	dk brown
	SS-7	SS-7-4.5	11/30/1999					yes	5	2.39				CL	dk brown
	SS-8	SS-8-0.5	11/30/1999					yes	1	2.37				SC	dk gray
	SS-8	SS-8-4.5	11/30/1999					yes	5	2.14				SC/CL	dk gray
	SS-9	SS-9-0.5	11/30/1999					yes	1	1.79				SC	dk brown
	SS-9	SS-9-4.5	11/30/1999					yes	5	2.49				ML	lt brown
	SS-10	SS-10-1	11/30/1999					yes	1	2.25				SM	dk brown
	SS-10	SS-10-4.5	11/30/1999					yes	5	2.10				ML	dk brown
	SS-11	SS-11-0.5	11/30/1999					yes	1	3.20				CL	dk brown
	SS-11	SS-11-4.5	11/30/1999					yes	5	3.13				SC	dk brown
	SS-11	SS-16-5	11/30/1999	yes				yes	5	<0.750				SC	dk brown
	SS-12	SS-12-0.5	11/30/1999					yes	1	3.53				SC	dk brown
	SS-12	SS-12-4.5	11/30/1999					yes	5	2.35				ML	dk brown
	SS-13	SS-13-0.5	11/30/1999					yes	1	3.76				SC	dk brown
	SS-13	SS-13-4.5	11/30/1999					yes	5	1.36				SM/ML	dk brown
	SS-14	SS-14-0.5	11/30/1999					yes	1	1.77				SC	dk brown
SS-14	SS-14-4.5	11/30/1999					yes	5	1.25				CL	dk brown	
SS-15	SS-15-0.5	11/30/1999					yes	1	2.58				SC	dk brown	
SS-15	SS-15-5	11/30/1999					yes	5	1.24				SC	dk brown	

Notes:

Reports reviewed: PEA Workplan (Dames & Moore, 11/8/99) and draft PEA Report (Dames & Moore (12/17/99)

No mention of on-site artificial fill in boring logs.

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Central LA High School #9 (Hill St.)	SS-01	86-SS01-01	9/15/2000					yes	1	<0.750				ML/CL	ol brown native
	SS-01	86-SS01-01D	9/15/2000	yes				yes	1	<0.750				ML/CL	
	SS-01	86-SS01-05	9/15/2000					yes	5	0.819				ML	
	SS-02	86-SS02-01	9/14/2000					yes	1	<0.750				ML/MH	ol gray
	SS-02	86-SS02-05	9/14/2000					yes	5	1.40				ML	dk gr gray native
	SS-03	86-SS03-01	9/14/2000					yes	1	1.04				CL	ol grn
	SS-03	86-SS03-05	9/14/2000					yes	5	<0.750				ML/MH	ol grn native
	SS-04	86-SS04-01	9/14/2000					yes	1	<0.750				SP	dk yell brown
	SS-04	86-SS04-02	9/14/2000					yes	2	<0.750				SW	strong brown
	SS-05	86-SS05-01	9/15/2000					yes	1	<0.750				SM	brown
	SS-05	86-SS05-01D	9/15/2000	yes				yes	1	<0.750				SM	brown
	SS-06	86-SS06-01	9/15/2000					yes	1	<0.750				SM	v dk grayish brown
	SS-06	86-SS06-05	9/15/2000					yes	5	<0.750				SM	v dk grayish brown
	SS-07	86-SS07-01	9/15/2000					yes	1	<0.750				SM	dk yell brown
	SS-07	86-SS07-05	9/15/2000					yes	5	<0.750				SM	dk yell brown
	SS-08	86-SS08-01	9/15/2000				yes	yes	1	<0.750				SM	dk yell brown
	SS-08	86-SS08-05	9/15/2000				yes	yes	5	<0.750				SM	dk yell brown
	SS-09	86-SS09-01	9/15/2000					yes	1	<0.750				CL/ML	brown
	SS-09	86-SS09-05	9/15/2000					yes	5	<0.750				CL	dk yell brown
	SS-10	86-SS10-01	9/14/2000					yes	1	<0.750				SM	dk brown
	SS-10	86-SS10-05	9/14/2000					yes	5	<0.750				CL	dk brown
	SS-11	86-SS11-01	9/14/2000					yes	1	<0.750				CL	ol green
	SS-11	86-SS11-05	9/14/2000					yes	5	1.46				CL	ol green native
	SS-12	86-SS12-01	9/14/2000					yes	1	3.04				CL	ol green
	SS-12	86-SS12-05	9/14/2000					yes	5	<0.750				CL/CH	ol green native
	SS-13	86-SS13-01	9/14/2000					yes	1	1.75				ML/CL	lt ol green native
	SS-13	86-SS13-05	9/14/2000					yes	5	0.777				ML	yell brown native
	SS-14	86-SS14-01	9/14/2000					yes	1	1.05				ML	brown
	SS-14	86-SS14-01D	9/14/2000	yes				yes	1	<0.750				ML	brown native
	SS-14	86-SS14-05	9/14/2000					yes	5	<0.750				ML	lt ol green native
	SS-15	86-SS15-01	9/14/2000					yes	1	<0.750				CL/ML	lt ol green native
	SS-15	86-SS15-05	9/14/2000					yes	5	<0.750				CL/ML	lt ol green native
	SS-16	86-SS16-01	9/15/2000					yes	1	<0.750				SM/ML	v dk grayish brown
SS-16	86-SS16-05	9/15/2000					yes	5	<0.750				SM	dk yell brown	
SS-17	86-SS17-01	9/15/2000					yes	1	0.878				ML	dk yel brown	
SS-18	86-SS18-01	9/15/2000					yes	1	<0.750				SM/ML	dk brown	
SS-18	86-SS18-05	9/15/2000					yes	5	<0.750				SM/ML	dk brown	
SS-19	86-SS19-01	9/15/2000					yes	1	<0.750				SM/ML	dk yell brown	
SS-19	86-SS19-05	9/15/2000					yes	5	<0.750				SM	yell brown native	

Notes:
 Reports reviewed: PEA Workplan (URS, 8/24/00) and draft PEA Report (URS, 12/15/00)
 Site was cemetery in late 1800's. By 1894, school was in SE portion of site; cemetery was in sw, central, and eastern portions of site.
 Residences present near Grand and Hollywood Frwy. Cemetery gone by 1920.
 Former Red Line Tunnel beneath central portion of site.
 No non-soil artificial fill noted in boring logs except for SS-08-05 (chips of brick-no bones!).

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Park Ave. Primary Center										<0.75					
										<0.75					
										<0.75					
										<0.75					
										0.212					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					

Notes:
No arsenic data available (missing reports).
Data source: electronic file from Bill Bosan.

Appendix A
School Inclusion / Exclusion Matrix

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Orthopaedic Hospital Magnet High School										<0.75					
										<0.75					
										<0.75					
										1.34					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										2.69					
										<0.75					
										1.99					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										0.223					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
										<0.75					
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									<0.75						
									3.04						
									<0.75						

Notes: *No arsenic data available (missing reports).*
Data source: electronic file from Bill Bosan.

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Gemco Cont.										<0.75 <0.75 <0.75 <0.75 <0.75 <0.75					

Notes:
No arsenic data available (missing reports).
 Data source: electronic file from Bill Bosan.

Belmont/Hollywood PC #3
 No PEA rept available. Removal Action Report exists for site, but was not available for review.
No arsenic data available (missing reports).

Garvanza
No arsenic data available (missing reports).

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Accelerated	SS-A101	SS-A101-5				yes			5	1.42				SM (Qal)		
	SS-A101	SS-A101-5D		yes		yes			5	1.31				SM (Qal)		
	SS-A101-A1	SS-A101-A102				yes			2.5	1.15				SM (Qal)		
	SS-A101-A1	SS-A101-A103				yes			5	1.68				SM (Qal)		
	SS-A101-B1	SS-A101-B102							2.5	4.34				SM (Qal)		
	SS-A101-B1	SS-A101-B103							5	3.09				SM (Qal)		
	SS-A101-C1	SS-A101-C102				yes			2.5	1.48				SM (Qal)		
	SS-A101-C1	SS-A101-C103				yes			5	1.70				SM (Qal)		
	SS-A101-D1	SS-A101-D102							2.5	2.51				SM (Qal)		
	SS-A101-D1	SS-A101-D103							5	1.75				SM (Qal)		
	SS-A101-A2	SS-A101-A202					yes		2.5	3.14				SM (Qal)		
	SS-A101-A2	SS-A101-A203					yes		5	2.01				SM (Qal)		
	SS-A101-B2	SS-A101-B202					yes		2.5	2.15				SM (Qal)		
	SS-A101-B2	SS-A101-B203					yes		5	1.48				SM (Qal)		
	SS-A101-C2	SS-A101-C202							2.5	2.68				SM (Qal)		
	SS-A101-C2	SS-A101-C203							5	1.79				SM (Qal)		
	SS-A101-D2	SS-A101-D202							2.5	1.15				SM (Qal)		
	SS-A101-D2	SS-A101-D203							5	1.27				SM (Qal)		
	BS-AREA1-04-5	BS-AREA1-04-5							5	0.887					SM (Qal)	
	SS-AREA1-04-4	SS-AREA1-04-4							4	<0.75					SM (Qal)	
	SS-A102	SS-A102-5							5	2.41					SM (Qal)	
	SS-A102	SS-A102-10							10	2.26					SM (Qal)	
	SS-A103	SS-A103-5							5	1.51					SM (Qal)	
	SS-A103	SS-A103-10							10	2.03					SM (Qal)	
	SS-A103	SS-A103-15				yes			15	<0.863					SP (Qal)	
	SS-A103	SS-A103-20				yes			20	<0.146					SM (Qal)	
	SS-A104	SS-A104-10							10	2.61					SC (Qal)	
	SS-A104	SS-A104-15					yes		15	0.895					SP (Qal)	
	SS-A104	SS-A104-20					yes		20	0.532					SW (Qal)	
	SS-A105	SS-A105-5							5	2.31					SM (Qal)	
	SS-A105	SS-A105-5			yes				5	2.03					SM (Qal)	
	SS-A105	SS-A105-10							10	2.53					SM (Qal)	
	SS-A106	SS-A106-1							0.5	3.61					SM (Qal)	
	SS-A106	SS-A106-5							5	1.71					SM (Qal)	
	SS-A107	SS-A107-5							5	2.46					SM (Qal)	
	SS-A107	SS-A107-10							10	2.71					SM (Qal)	
	SS-A107	SS-A107-10D			yes				10	2.90					SM (Qal)	
	SS-A107	SS-A107-15				yes			15	1.04					SP (Qal)	
	SS-A107	SS-A107-20				yes			20	0.523					SP (Qal)	
	SS-A108	SS-A108-5							5	3.27					SM (Qal)	
	SS-A108	SS-A108-10							10	3.52					SM (Qal)	
	SS-A108	SS-A108-10D			yes				10	2.47					SM (Qal)	
	SS-A108	SS-A108-15				yes			15	1.46					SP (Qal)	
	SS-A108	SS-A108-20				yes			20	0.913					SP (Qal)	
	SS-A109	SS-A109-5							5	1.37					SM (Qal)	
	SS-A110	SS-A110-5							5	1.82					SM (Qal)	
	SS-A111	SS-A111-5							5	1.45					SM (Qal)	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Accelerated Cont.	SS-A112	SS-A112-5							5	1.46				SM (Qal)	
	SS-A113	SS-A113-5							5	1.11				SM (Qal)	
	SS-A113	SS-A113-10							10	2.14				SM (Qal)	
	SS-A113	SS-A113-20			yes				20	0.865				SP (Qal)	
	SS-A114	SS-A114-5							5	2.94				SM (Qal)	
	SS-A114	SS-A114-10							10	2.44				SM (Qal)	
	SS-A114	SS-A114-20				yes			20	<0.608				SP (Qal)	
	SS-A114	SS-A114-26				yes			26	<0.341				SP (Qal)	
	SS-A114	SS-A114-26D		yes	yes				26	<0.543				SP (Qal)	
	SS-A115	SS-A115-5							5	1.91				SM (Qal)	
	SS-A115	SS-A115-10							10	3.41				SM (Qal)	
	SS-A115	SS-A115-20				yes			20	0.363				SP (Qal)	
	SS-A115	SS-A115-30				yes			30	0.960				SW (Qal)	
	SS-A117	SS-A117-5							5	1.52				SM (Qal)	
	SS-A118	SS-A118-5							5	1.43				SM (Qal)	
	SS-A119	SS-A119-1							0.5	3.82				SM (Qal)	
	SS-A120	SS-A120-1							0.5	3.68				SM (Qal)	
	SS-A120	SS-A120-5							5	1.18				SM (Qal)	
	SS-A121	SS-A121-1							0.5	1.79				SM (Qal)	
	SS-A121	SS-A121-5							5	2.27				SM (Qal)	
	SS-A101	SS-A101-1					yes	yes	0.5	177				SM (Af)	
	SS-A101-A1	SS-A101-A101					yes	yes	0.5	1.26				SM (Af)	
	SS-A101-B1	SS-A101-B101						yes	0.5	1.76				SM (Af)	
	SS-A101-C1	SS-A101-C101					yes	yes	0.5	22.7				SM (Af)	
	SS-A101-D1	SS-A101-D101					yes	yes	0.5	7.37				SM (Af)	
	SS-A101-A2	SS-A101-A201					yes	yes	0.5	2.61				SM (Af)	
	SS-A101-B2	SS-A101-B201					yes	yes	0.5	1.95				SM (Af)	
	SS-A101-C2	SS-A101-C201					yes	yes	0.5	2.28				SM (Af)	
	SS-A101-D2	SS-A101-D201					yes	yes	0.5	2.84				SM (Af)	
	BS-AREA1-01-2	BS-AREA1-01-2						yes	2	1.76				SM (Af)	
	BS-AREA1-02-2	BS-AREA1-02-2						yes	2	1.66				SM (Af)	
	BS-AREA1-03-2	BS-AREA1-03-2						yes	2	0.489				SM (Af)	
	BS-AREA1-05-2	BS-AREA1-05-2						yes	2	0.89				SM (Af)	
	SS-AREA1-01-1	SS-AREA1-01-1						yes	1	3.13				SM (Af)	
	SS-AREA1-02-1	SS-AREA1-02-1						yes	1	2.73				SM (Af)	
	SS-AREA1-03-1	SS-AREA1-03-1						yes	1	1.97				SM (Af)	
	SS-AREA1-05-1.5	SS-AREA1-05-1.5						yes	1.5	0.554				SM (Af)	
	SS-A102	SS-A102-1						yes	0.5	4.02				SM (Af)	
	SS-A104	SS-A104-5						yes	5	2.38				SM (Af)	
	SS-A105	SS-A105-1						yes	0.5	4.75				SM (Af)	
	SS-A109	SS-A109-1						yes	0.5	5.19				SM (Af)	
	SS-A110	SS-A110-1						yes	0.5	3.28				SM (Af)	
	SS-A111	SS-A111-1						yes	0.5	5.58				SM (Af)	
	SS-A112	SS-A112-1						yes	0.5	5.26				SM (Af)	
	SS-A113	SS-A113-1						yes	0.5	4.70				SM (Af)	
	SS-A114	SS-A114-1						yes	0.5	2.88				SM (Af)	
	SS-A115	SS-A115-1						yes	0.5	2.30				SM (Af)	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Accelerated Cont.	SS-A116	SS-A116-1					yes		0.5	9.13				SM (Af)		
	SS-A117	SS-A117-1					yes		0.5	3.11				SM (Af)		
	SS-A118	SS-A118-1					yes		0.5	4.66				SM (Af)		
	SS-A404	SS-A404-1				yes	yes		0.5	49.2				SM (Af)		
	SS-A404-A1	SS-A404-A101					yes		0.5	3.53				SM (Af)		
	SS-A404-A1	SS-A404-A102					yes		2.5	9.50				SM (Af)		
	SS-A404-B1	SS-A404-B101				yes	yes		0.5	3.16				SM (Af)		
	SS-A404-B1	SS-A404-B102				yes	yes		2.5	3.68				SM (Af)		
	SS-A404-C1	SS-A404-C101				yes	yes		0.5	19.6				SM (Af)		
	SS-A404-C1	SS-A404-C102				yes	yes		2.5	4.65				SM (Af)		
	SS-A404-D1	SS-A404-D101				yes	yes		0.5	3.36				SM (Af)		
	SS-A404-D1	SS-A404-D102				yes	yes		2.5	3.29				SM (Af)		
	SS-A404-A2	SS-A404-A201					yes		0.5	1.65				SM (Af)		
	SS-A404-A2	SS-A404-A202						yes	2.5	6.68				SM (Af)		
	SS-A404-B2	SS-A404-B201				yes	yes		0.5	26.5				SM (Af)		
	SS-A404-B2	SS-A404-B202				yes	yes		2.5	3.92				SM (Af)		
	SS-A404-C2	SS-A404-C201				yes	yes		0.5	27.6				SM (Af)		
	SS-A404-C2	SS-A404-C202				yes	yes		2.5	3.32				SM (Af)		
	SS-A404-D2	SS-A404-D201				yes	yes		0.5	24				SM (Af)		
	SS-A404-D2	SS-A404-D202				yes	yes		2.5	2.87				SM (Af)		
	BS-AREA4-01-2.5	BS-AREA4-01-2.5						yes		2.5	2.62				SM (Af)	
	BS-AREA4-04-2.5	BS-AREA4-04-2.5						yes		2.5	1.43				SM (Af)	
	BS-AREA4-05-2.5	BS-AREA4-05-2.5						yes		2.5	1.14				SM (Af)	
	SS-AREA4-01-0.5	SS-AREA4-01-0.5						yes		0.5	7.44				SM (Af)	
	SS-AREA4-04-1.5	SS-AREA4-04-1.5						yes		1.5	3.79				SM (Af)	
	SS-AREA4-05-1.5	SS-AREA4-05-1.5						yes		1.5	3.22				SM (Af)	
	F1A4-01	F1A4-01-0.5						yes		0.5	2.15				SM (Af)	
	F1A4-02	F1A4-02-0.5					yes	yes		0.5	0.491				SM (Af)	
	F1A4-02	F1A4-02-2.5					yes	yes		2.5	1.94				SM (Af)	
	F1A4-03	F1A4-03-0.5						yes		0.5	0.757				SM (Af)	
	F1A4-03	F1A4-03-2.5						yes		2.5	4.65				SM (Af)	
	F1A4-04	F1A4-04-0.5						yes		0.5	1.8				SM (Af)	
	F1A4-04	F1A4-04-2.5						yes		2.5	0.958				SM (Af)	
	F1A4-05	F1A4-05-0.5						yes		0.5	0.925				SM (Af)	
	F1A4-05	F1A4-05-2.5						yes		2.5	0.500				SM (Af)	
	F1A4-06	F1A4-06-0.5						yes		0.5	2.27				SM (Af)	
	F1A4-06	F1A4-06-2.5						yes		2.5	0.198				SM (Af)	
	F1A4-07	F1A4-07-0.5						yes		0.5	6.24				SM (Af)	
	F1A4-07	F1A4-07-2.5						yes		2.5	0.460				SM (Af)	
	F1A4-08	F1A4-08-0.5						yes		0.5	1.57				SM (Af)	
	F1A4-08	F1A4-08-2.5						yes		2.5	2.05				SM (Af)	
	F1A4-09	F1A4-09-0.5						yes		0.5	2.9				SM (Af)	
	F1A4-09	F1A4-09-2.5						yes		2.5	0.302				SM (Af)	
	F1A4-09	F1A4-09-2.5D			yes			yes		3	1.03				SM (Af)	
F1A4-10	F1A4-10-0.5						yes		0.5	3.1				SM (Af)		
F1A4-10	F1A4-10-2.5						yes		2.5	1.6				SM (Af)		
F1A4-11	F1A4-11-0.5						yes		0.5	1.74				SM (Af)		

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Accelerated Cont.	F1A4-11	F1A4-11-2.5					yes		2.5	6.03				SM (Af)		
	F1A4-20	F1A4-20-0.5					yes		0.5	2.47				SM (Af)		
	F1A4-20	F1A4-20-0.5D		yes			yes		1	5.7				SM (Af)		
	F1A4-20	F1A4-20-2.5					yes		2.5	1.3				SM (Af)		
	F1A4-21	F1A4-21-0.5					yes	yes	0.5	11.9				SM (Af)		
	F1A4-21	F1A4-21-2.5					yes	yes	2.5	0.62				SM (Af)		
	F1A4-39	F1A4-39-0.5					yes		0.5	2.49				SM (Af)		
	F1A4-39	F1A4-39-2.5					yes		2.5	1.42				SM (Af)		
	F1A4-40	F1A4-40-0.5					yes		0.5	3.82				SM (Af)		
	F1A4-40	F1A4-40-2.5					yes		2.5	1.71				SM (Af)		
	SS-A201	SS-A201-1							0.5	2.93					SM (Qal)	
	SS-A201	SS-A201-5							5	1.32					SM (Qal)	
	SS-A202	SS-A202-1							0.5	4.31					SM (Qal)	
	SS-A202	SS-A202-1D		yes					0.5	2.26					SM (Qal)	
	SS-A202	SS-A202-5							5	1.87					SM (Qal)	
	SS-A203	SS-A203-1							0.5	1.25					SM (Qal)	
	SS-A203	SS-A203-5							5	2.50					SM (Qal)	
	SS-A204	SS-A204-1							0.5	2.67					SM (Qal)	
	SS-A204	SS-A204-8							8	1.14					SC (Qal)	
	SS-A301	SS-A301-1							0.5	1.80					SM (Qal)	
	SS-A301	SS-A301-5							5	1.58					SM (Qal)	
	SS-A301	SS-A301-5D		yes					5	1.15					SM (Qal)	
	SS-A302	SS-A302-1							0.5	1.83					SM (Qal)	
	SS-A302	SS-A302-5							5	1.48					SM (Qal)	
	SS-A303	SS-A303-1							0.5	2.67					SM (Qal)	
	SS-A303	SS-A303-5							5	1.68					SM (Qal)	
	SS-A304	SS-A304-1							0.5	2.45					SM (Qal)	
	SS-A304	SS-A304-5							5	1.39					SM (Qal)	
	SS-A401	SS-A401-1							0.5	1.77					SM (Qal)	
	SS-A401	SS-A401-5							5	1.52					SM (Qal)	
	SS-A402	SS-A402-1							0.5	2.18					SM (Qal)	
	SS-A402	SS-A402-5							5	1.62					SM (Qal)	
	SS-A403	SS-A403-1							0.5	4.42					SM (Qal)	
	SS-A403	SS-A403-5							5	1.38					SM (Qal)	
	SS-A404-A1	SS-A404-A103							5	2.32					SM (Qal)	
	SS-A404-B1	SS-A404-B103							5	1.91					SM (Qal)	
	SS-A404-C1	SS-A404-C103							5	1.47					SM (Qal)	
	SS-A404-D1	SS-A404-D103					yes		5	31.0					SM (Qal)	
	SS-A404-A2	SS-A404-A203							5	2.58					SM (Qal)	
	SS-A404-B2	SS-A404-B203							5	1.83					SM (Qal)	
	SS-A404-C2	SS-A404-C203							5	2.15					SM (Qal)	
	SS-A404-D2	SS-A404-D203							5	1.6					SM (Qal)	
	BS-AREA4-02-10	BS-AREA4-02-10							10	1.07					SM (Qal)	
	BS-AREA4-03-10	BS-AREA4-03-10							10	2.81					SM (Qal)	
	SS-AREA4-02-7	SS-AREA4-02-7							7	<0.75					SM (Qal)	
	SS-AREA4-03-7	SS-AREA4-03-7							7	0.476					SM (Qal)	
	SS-A405	SS-A405-1							0.5	1.90					SM (Qal)	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Accelerated Cont.	SS-A405	SS-A405-5							5	1.66				SM (Qal)	
	SS-A406	SS-A406-5							5	2.48				SM (Qal)	
	SS-A406	SS-A406-12			yes				12	2.72				SM (Qal)	
	SS-A406	SS-A406-17			yes				17	0.816				SP (Qal)	
	SS-A406	SS-A406-19			yes				19	0.755				SP (Qal)	
	SS-A407	SS-A407-5							5	2.37				SM (Qal)	
	SS-A407	SS-A407-12			yes				12	2.07				SM (Qal)	
	SS-A407	SS-A407-12D		yes	yes				12	3.26				SM (Qal)	
	SS-A407	SS-A407-17			yes				17	<0.416				SP (Qal)	
	SS-A407	SS-A407-23			yes				23	<1.35				SP (Qal)	
	SS-A408	SS-A408-5							5	2.47				SM (Qal)	
	SS-A408	SS-A408-12			yes				12	2.41				SM (Qal)	
	SS-A408	SS-A408-17			yes				17	<0.804				SP (Qal)	
	SS-A408	SS-A408-17D		yes	yes				17	<0.569				SP (Qal)	
	SS-A408	SS-A408-23			yes				23	<1.39				SP (Qal)	
	SS-A409	SS-A409-1							0.5	3.01				SM (Qal)	
	SS-A409	SS-A409-5							5	1.55				SM (Qal)	
	SS-A410	SS-A410-1							0.5	3.15				SM (Qal)	
	SS-A410	SS-A410-5							5	2.27				SM (Qal)	
	SS-A411	SS-A411-1							0.5	2.85				SM (Qal)	
	SS-A411	SS-A411-5							5	1.38				SM (Qal)	
	SS-A412	SS-A412-1							0.5	3.07				SM (Qal)	
	SS-A412	SS-A412-5							5	1.8				SM (Qal)	
	F1A4-01	F1A4-01-5.0							5	0.279				SM (Qal)	
	F1A4-01	F1A4-01-7.5							7.5	<0.750				SM (Qal)	
	F1A4-01	F1A4-01-10							10	0.188				SM (Qal)	
	F1A4-02	F1A4-02-5.0					yes		5	<0.750				SM (Qal)	
	F1A4-02	F1A4-02-5D		yes	yes		yes		5.5	<0.750				SM (Qal)	
	F1A4-02	F1A4-02-7.5					yes		7.5	15				SM (Qal)	
	F1A4-02	F1A4-02-10					yes		10	4.08				SM (Qal)	
	F1A4-02	F1A4-02-10D		yes	yes				10.5	5.87				SM (Qal)	
	F1A4-03	F1A4-03-5.0							5	0.393				SM (Qal)	
	F1A4-03	F1A4-03-7.5							7.5	<0.75				SM (Qal)	
	F1A4-03	F1A4-03-10							10	<0.75				SM (Qal)	
	F1A4-04	F1A4-04-5.0							5	0.683				SM (Qal)	
	F1A4-04	F1A4-04-7.5							7.5	0.706				SM (Qal)	
	F1A4-04	F1A4-04-7.5D		yes					8	0.676				SM (Qal)	
	F1A4-04	F1A4-04-10							10	0.748				SM (Qal)	
	F1A4-05	F1A4-05-5.0							5	0.230				SM (Qal)	
	F1A4-06	F1A4-06-5.0							5	0.664				SM (Qal)	
	F1A4-07	F1A4-07-5.0							5	<0.75				SM (Qal)	
	F1A4-08	F1A4-08-5.0							5	0.338				SM (Qal)	
	F1A4-08	F1A4-08-5.0D		yes					5.5	0.846				SM (Qal)	
	F1A4-09	F1A4-09-5.0							5	0.348				SM (Qal)	
	F1A4-09	F1A4-09-7.5							7.5	0.34				SM (Qal)	
	F1A4-09	F1A4-09-7.5D		yes					8	0.66				SM (Qal)	
	F1A4-09	F1A4-09-10							10	0.934				SM (Qal)	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color	
Accelerated Cont.	F1A4-10	F1A4-10-5.0							5	0.845				SM (Qal)		
	F1A4-10	F1A4-10-7.5							7.5	<0.75				SM (Qal)		
	F1A4-10	F1A4-10-10							10	1.56				SM (Qal)		
	F1A4-11	F1A4-11-5.0							5	0.586				SM (Qal)		
	F1A4-11	F1A4-11-7.5							7.5	0.612				SM (Qal)		
	F1A4-11	F1A4-11-10							10	0.501				SM (Qal)		
	F1A4-20	F1A4-20-5.0							5	0.208				SM (Qal)		
	F1A4-21	F1A4-21-5.0							5	0.299				SM (Qal)		
	F1A4-21	F1A4-21-7.5							7.5	<0.75				SM (Qal)		
	F1A4-21	F1A4-21-10							10	1.14				SM (Qal)		
	F1A4-21	F1A4-21-10D		yes	yes				10.5	0.828				SM (Qal)		
	F1A4-39	F1A4-39-5.0							5	1.22				SM (Qal)		
	F1A4-40	F1A4-40-5.0							5	0.796				SM (Qal)		
	F1A4-40	F1A4-40-7.5							7.5	1.05				SM (Qal)		
	F1A4-40	F1A4-40-10							10	1.24				SM (Qal)		
	SS-A404	SS-A404-1					yes	yes		0.5	49.2				SM (Af)	
	SS-A404-A1	SS-A404-A101						yes		0.5	3.53				SM (Af)	
	SS-A404-A1	SS-A404-A102						yes		2.5	9.50				SM (Af)	
	SS-A404-B1	SS-A404-B101					yes	yes		0.5	3.16				SM (Af)	
	SS-A404-B1	SS-A404-B102					yes	yes		2.5	3.68				SM (Af)	
	SS-A404-C1	SS-A404-C101					yes	yes		0.5	19.6				SM (Af)	
	SS-A404-C1	SS-A404-C102					yes	yes		2.5	4.65				SM (Af)	
	SS-A404-D1	SS-A404-D101					yes	yes		0.5	3.36				SM (Af)	
	SS-A404-D1	SS-A404-D102					yes	yes		2.5	3.29				SM (Af)	
	SS-A404-A2	SS-A404-A201						yes		0.5	1.65				SM (Af)	
	SS-A404-A2	SS-A404-A202						yes		2.5	6.68				SM (Af)	
	SS-A404-B2	SS-A404-B201					yes	yes		0.5	26.5				SM (Af)	
	SS-A404-B2	SS-A404-B202					yes	yes		2.5	3.92				SM (Af)	
	SS-A404-C2	SS-A404-C201					yes	yes		0.5	27.6				SM (Af)	
	SS-A404-C2	SS-A404-C202					yes	yes		2.5	3.32				SM (Af)	
	SS-A404-D2	SS-A404-D201					yes	yes		0.5	24				SM (Af)	
	SS-A404-D2	SS-A404-D202					yes	yes		2.5	2.87				SM (Af)	
	BS-AREA4-01-2.5	BS-AREA4-01-2.5						yes		2.5	2.62				SM (Af)	
	BS-AREA4-04-2.5	BS-AREA4-04-2.5						yes		2.5	1.43				SM (Af)	
	BS-AREA4-05-2.5	BS-AREA4-05-2.5						yes		2.5	1.14				SM (Af)	
	SS-AREA4-01-0.5	SS-AREA4-01-0.5						yes		0.5	7.44				SM (Af)	
	SS-AREA4-04-1.5	SS-AREA4-04-1.5						yes		1.5	3.79				SM (Af)	
	SS-AREA4-05-1.5	SS-AREA4-05-1.5						yes		1.5	3.22				SM (Af)	
	F1A4-01	F1A4-01-0.5						yes		0.5	2.15				SM (Af)	
	F1A4-02	F1A4-02-0.5					yes	yes		0.5	0.491				SM (Af)	
	F1A4-02	F1A4-02-2.5					yes	yes		2.5	1.94				SM (Af)	
	F1A4-03	F1A4-03-0.5						yes		0.5	0.757				SM (Af)	
	F1A4-03	F1A4-03-2.5						yes		2.5	4.65				SM (Af)	
	F1A4-04	F1A4-04-0.5						yes		0.5	1.8				SM (Af)	
	F1A4-04	F1A4-04-2.5						yes		2.5	0.958				SM (Af)	
	F1A4-05	F1A4-05-0.5						yes		0.5	0.925				SM (Af)	
	F1A4-05	F1A4-05-2.5						yes		2.5	0.500				SM (Af)	

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Accelerated Cont.	F1A4-06	F1A4-06-0.5					yes		0.5	2.27				SM (Af)	
	F1A4-06	F1A4-06-2.5					yes		2.5	0.198				SM (Af)	
	F1A4-07	F1A4-07-0.5					yes		0.5	6.24				SM (Af)	
	F1A4-07	F1A4-07-2.5					yes		2.5	0.460				SM (Af)	
	F1A4-08	F1A4-08-0.5					yes		0.5	1.57				SM (Af)	
	F1A4-08	F1A4-08-2.5					yes		2.5	2.05				SM (Af)	
	F1A4-09	F1A4-09-0.5					yes		0.5	2.9				SM (Af)	
	F1A4-09	F1A4-09-2.5					yes		2.5	0.302				SM (Af)	
	F1A4-09	F1A4-09-2.5D		yes			yes		3	1.03				SM (Af)	
	F1A4-10	F1A4-10-0.5					yes		0.5	3.1				SM (Af)	
	F1A4-10	F1A4-10-2.5					yes		2.5	1.6				SM (Af)	
	F1A4-11	F1A4-11-0.5					yes		0.5	1.74				SM (Af)	
	F1A4-11	F1A4-11-2.5					yes		2.5	6.03				SM (Af)	
	F1A4-20	F1A4-20-0.5					yes		0.5	2.47				SM (Af)	
	F1A4-20	F1A4-20-0.5D		yes			yes		1	5.7				SM (Af)	
	F1A4-20	F1A4-20-2.5					yes		2.5	1.3				SM (Af)	
	F1A4-21	F1A4-21-0.5					yes	yes	0.5	11.9				SM (Af)	
	F1A4-21	F1A4-21-2.5					yes	yes	2.5	0.62				SM (Af)	
	F1A4-39	F1A4-39-0.5					yes		0.5	2.49				SM (Af)	
	F1A4-39	F1A4-39-2.5					yes		2.5	1.42				SM (Af)	
F1A4-40	F1A4-40-0.5					yes		0.5	3.82				SM (Af)		
F1A4-40	F1A4-40-2.5					yes		2.5	1.71				SM (Af)		

Notes:
 Site underlain with non-soil artificial fill (3 to 7 ft thick) consisting of silty sands and sands w/rock frags and man-made debris
 Reports reviewed: PEA Workplan, PEA Report, removal action report.

**Appendix A
School Inclusion / Exclusion Matrix**

School	Boring	Sample	Date	Duplicate?	>10' bgs?	Excavated?	Non-Soil Af?	CAR Verified?	Depth (feet)	Arsenic Conc. (mg/kg)	Chromium Conc. (mg/kg)	Lead Conc. (mg/kg)	Molybdenum Conc. (mg/kg)	Soil Type	Soil/Fill color
Lankershim	83-B01	83-B01-0001	11/2/2000			yes		yes	0	2.73					
		83-B01-0101	11/2/2000			yes		yes	1	3.83					
		83-B01-0201	11/2/2000			yes		yes	2	1.59					
	83-B05	83-B05-0101	11/2/2000			yes		yes	1	2.27					
		83-B05-0201	11/2/2000			yes		yes	2	1.55					
	83-B06	83-B06-0101	11/2/2000			yes		yes	1	1.06					
		83-B06-0201	11/2/2000			yes		yes	2	1.99					
	83-B07	83-B07-0101	11/2/2000			yes		yes	1	1.92					
		83-B07-0201	11/2/2000			yes		yes	2	1.29					
	83-B09	83-B09-0101	11/2/2000			yes		yes	1	2.69					
		83-B09-0201	11/2/2000			yes		yes	2	1.80					
	83-B10	83-B10-0101	11/2/2000			yes		yes	1	2.58					
		83-B10-0201	11/2/2000			yes		yes	2	1.31					
	83-B12	83-B12-0101	11/2/2000					yes	1	1.40					
		83-B12-0201	11/2/2000					yes	2	1.44					
	83-B14	83-B14-0101	11/2/2000					yes	1	1.01					
		83-B14-0201	11/2/2000					yes	2	1.32					
	83-B15	83-B15-0101	11/2/2000			yes		yes	1	4.10					
		83-B15-0201	11/2/2000			yes		yes	2	1.43					
	83-SB01	83-SB01-0101	1/20/2001			yes		yes	1	9.79					
		83-SB01-0201	1/20/2001			yes		yes	2	0.949					
	83-SB02	83-SB02-0101	1/20/2001			yes		yes	1	2.22					
		83-SB02-0501	1/20/2001			yes		yes	5	0.999					
	83-SB03	83-SB03-0101	1/20/2001			yes		yes	1	3.19					
		83-SB03-0201	1/20/2001			yes		yes	2	2.18					
	83-SB04	83-SB04-0001	1/20/2001			yes		yes	0	3.63					
		83-SB04-0501	1/20/2001			yes		yes	5	1.56					
	83-SB08	83-SB08-0101	1/20/2001					yes	1	0.903					
		83-SB08-0201	1/20/2001					yes	2	1.21					
	83-SB12	83-SB12-0101	1/20/2001					yes	1	1.25					
		83-SB12-0201	1/20/2001					yes J	2	0.477					
	83-SB14	83-SB14-0101	1/20/2001					yes	1	3.68					
		83-SB14-0201	1/20/2001					yes	2	0.763					
83-SB16	83-SB16-0101	1/20/2001					yes	1	1.98						
	83-SB16-0201	1/20/2001					yes	2	1.05						

Notes:

Upper few feet of unpaved area of site was noted to have been regraded and mixed when bldg was demo'd prior to site investigation (pg. III, Phase I ESA Update [Hydrologue, 12/28/99]).

Agricultural land use (including orchards) occurred in 1927, with residential land use starting in the 1920's (URS, 7/10/00).

A Pest Control company formerly occupied the site in the 1970's (URS, 3/23/01).

No boring logs (or lithologic descriptions) provided for any sample locations.

Most arsenic sample locations have since been excavated due to pesticide impacts. No arsenic data generated during removal action.

Areas having highest detected arsenic concentrations corresponded with areas having greatest pesticide impacts.

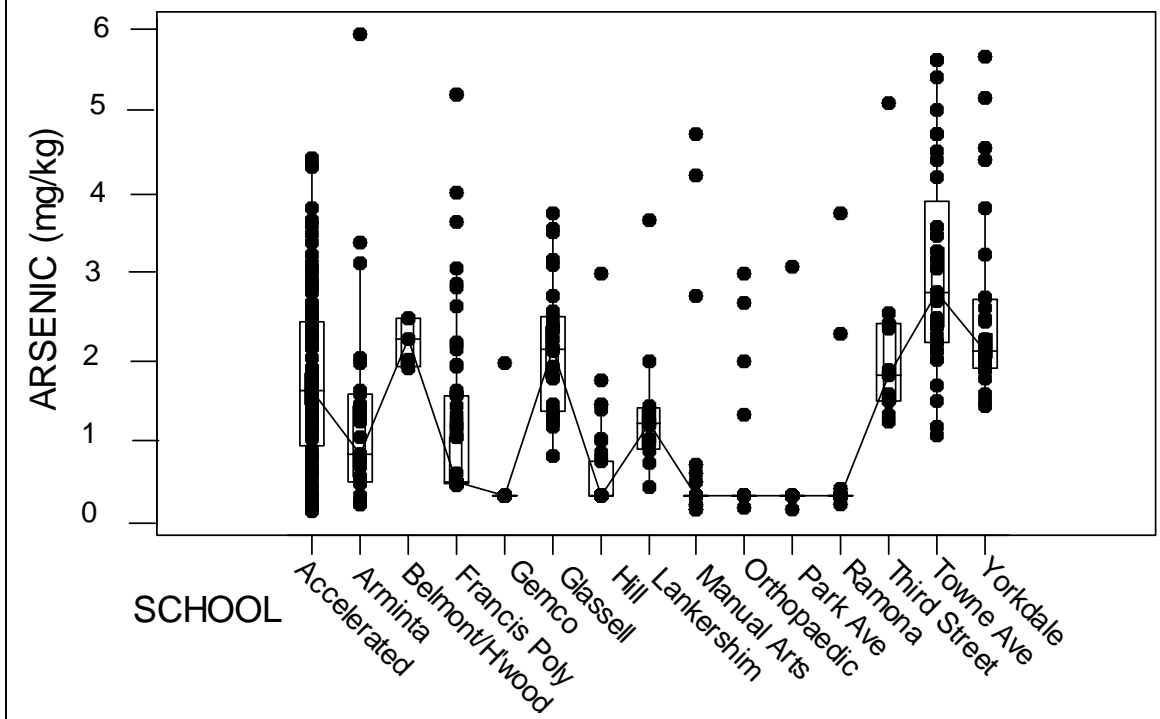
Sample having highest detected arsenic (SB-01-0101 at 9.79mg/kg) also had highest detected Zn and Se, and has been excavated.

Reports reviewed: Phase I Environmental Assessment Update (hydrologue, 12/28/99); Draft Background Summary (URS, 7/10/00); Removal Action Workplan (URS, 9/4/01); Removal Action Completion Report (URS, 1/23/02);

Subsurface Investigation Report (URS, 3/23/01); Addendum to Subsurface Investigation Report (URS, 4/19/01).

APPENDIX B
LAUSD ARSENIC DATABASE

FIGURE B-1



**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Belmont/Hollywood Primary Center #2	SS3-5	5	2.5	2.5	0.188
	SS5-5	5	1.9	1.9	0.199
	SS7-2	2	2.5	2.5	0.203
	SS7-5	5	2	2	0.208
Towne Ave	DP-1	0.5	2.21	2.21	0.212
	DP-1	5.5	3.5	3.5	0.223
	DP-1	10	4.7	4.7	0.23
	DP-2	0.5	2.8	2.8	0.239
	DP-2	5	2.4	2.4	0.261
	DP-2	10	1.1	1.1	0.262
	DP-3	0.5	1.7	1.7	0.263
	DP-3dup	5	2.2	2.2	0.269
	DP-3dup	10	5.6	5.6	0.279
	DP-4	0.5	2.1	2.1	0.299
	DP-4	5	2.7	2.7	0.309
	DP-4	10	5	5	0.348
	VM-1	2	2.5	2.5	0.375
	VM-1	5	1.5	1.5	0.375
	VM-1	10	4.5	4.5	0.375
	VM-2	0.5	2.2	2.2	0.375
	VM-2	5	4.7	4.7	0.375
	VM-2	10	3.6	3.6	0.375
	VM-3	0.5	2.2	2.2	0.375
	VM-3	5	3.5	3.5	0.375
	VM-3	10	4.7	4.7	0.375
	VM-4	0.5	2.1	2.1	0.375
	VM-4	10	4.4	4.4	0.375
	VM-5	0.5	2	2	0.375
	VM-5	5.5	3.6	3.6	0.375
	VM-5	10	5.4	5.4	0.375
	VM-6	0.5	3.1	3.1	0.375
	VM-6	5	2.8	2.8	0.375
	VM-6	10	4.2	4.2	0.375
	VM-7	0.5	2.5	2.5	0.375
	VM-7	5	2.8	2.8	0.375
	VM-7dup	10	5.6	5.6	0.375
	VM-8	0.5	2	2	0.375
	VM-8	5	3.2	3.2	0.375
VM-8	10	2.5	2.5	0.375	
VM-9	0.5	2.4	2.4	0.375	
VM-9	5	2.3	2.3	0.375	
VM-9	10	3.1	3.1	0.375	
VM-10	0.5	2.8	2.8	0.375	
VM-10	5	1.2	1.2	0.375	
VM-10	10	3.3	3.3	0.375	
Manual Arts Elementary School #1	SS-01-6.0	6	<0.750	0.375	0.375
	SS-01-10	10	<0.750	0.375	0.375
	SS-02-6.0	6	<0.750	0.375	0.375

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Manual Arts Elementary School #1 Cont.	SS-02-9.5	10	<0.750	0.375	0.375
	SS-03-5.5	6	<0.750	0.375	0.375
	SS-04-5.0	5	<0.750	0.375	0.375
	SS-05-5.5	6	<0.750	0.375	0.375
	SS-06-0.5	0.5	0.642	0.642	0.375
	SS-06-5.0	5	0.199	0.199	0.375
	SS-07D-1.0	1	0.735	0.735	0.375
	SS-07-5.0	5	<0.750	0.375	0.375
	SS-08-0.5	0.5	2.77	2.77	0.375
	SS-08-5.0	5	<0.750	0.375	0.375
	SS-09-6.0	6	<0.750	0.375	0.375
	SS-09-10	10	<0.750	0.375	0.375
	SS-10-5.5	6	<0.750	0.375	0.375
	SS-10-9.5	10	<0.750	0.375	0.375
	SS-11A-5.0	5	4.71	4.71	0.375
	SS-11A-9.5	10	4.21	4.21	0.375
	SS-11B-4.5	5	<0.750	0.375	0.375
	SS-12-0.5	0.5	<0.750	0.375	0.375
	SS-12-5.0	5	<0.750	0.375	0.375
	SS-13-0.5	0.5	<0.750	0.375	0.375
	SS-13-5.0	5	<0.750	0.375	0.375
	SS-14-0.5	0.5	<0.750	0.375	0.375
	SS-14-4.5	5	<0.750	0.375	0.375
	SS-15-0.5	0.5	<0.750	0.375	0.375
	SS-15-4.5	5	<0.750	0.375	0.375
	SS-16-0.5	0.5	<0.750	0.375	0.375
	SS-16-4.5	5	<0.750	0.375	0.375
	SS-17-0.5	0.5	0.269	0.269	0.375
	SS-17-4.5	5	0.239	0.239	0.375
	SS-18-0.5	0.5	<0.750	0.375	0.375
	SS-18-5.0	5	<0.750	0.375	0.375
	SS-19-0.5	0.5	<0.750	0.375	0.375
	SS-19-4.5	5	0.203	0.203	0.375
	SS-20-0.5	0.5	<0.750	0.375	0.375
	SS-20-4.5	5	<0.750	0.375	0.375
SS-21-0.5	0.5	<0.750	0.375	0.375	
SS-21-4.5	5	<0.750	0.375	0.375	
SS-22-0.5	0.5	<0.750	0.375	0.375	
SS-22-5.0	5	0.536	0.536	0.375	
SS-23-1.0	1	<0.750	0.375	0.375	
SS-23-4.5	5	<0.750	0.375	0.375	
SS-24-0.5	0.5	<0.750	0.375	0.375	
SS-24-4.5	5	<0.750	0.375	0.375	
SS-25-0.5	0.5	<0.750	0.375	0.375	
SS-25-4.5	5	<0.750	0.375	0.375	
Yorkdale	B-1@5'	5	4.4	4.4	0.375
	B-1@10'	10	2.5	2.5	0.375
	B-2@5'	5	3.83	3.83	0.375
	B-2@10'	10	5.63	5.63	0.375

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Yorkdale Cont.	B-3@5'	5	3.76	3.76	0.375
	B-3@10'	10	5.14	5.14	0.375
	B-4@5'	5	3.27	3.27	0.375
	B-4@10'	10	2.75	2.75	0.375
	B-5@5'	5	4.54	4.54	0.375
	B-5@10'	10	2.75	2.75	0.375
	SS-1-2.5	2.5	1.88	1.88	0.375
	SS-1-5	5	2.19	2.19	0.375
	SS-1-10	10	2.13	2.13	0.375
	SS-2-2.5	2.5	2.12	2.12	0.375
	SS-2-5	5	2.03	2.03	0.375
	SS-2-10	10	1.88	1.88	0.375
	SS-3-2.5	2.5	2.05	2.05	0.375
	SS-3-5	5	2.05	2.05	0.375
	SS-3-10	10	1.89	1.89	0.375
	SS-4-2.5	2.5	2.02	2.02	0.375
	SS-4-5	5	2.46	2.46	0.375
	SS-4-10	10	1.78	1.78	0.375
	SS-10-2.5	2.5	2.13	2.13	0.375
	SS-10-5	5	2.04	2.04	0.375
	SS-10-10	10	2.23	2.23	0.375
	SS-11-0.5	0.5	1.6	1.6	0.375
	SS-11-2.5	2.5	2.62	2.62	0.375
	SS-11-5	5	1.89	1.89	0.375
	SS-13-0.5	0.5	1.88	1.88	0.375
	SS-13-2.5	2.5	1.92	1.92	0.375
	SS-13-5	5	2.26	2.26	0.375
	SS-13-10	10	2.09	2.09	0.375
	SS-14-0.5	0.5	1.44	1.44	0.375
	SS-14-2.5	2.5	2.01	2.01	0.375
SS-14-5	5	2.04	2.04	0.375	
SS-14-10	10	1.5	1.5	0.375	
Ramona New Elementary School	SS-1-1	1	<0.750	0.375	0.375
	SS-1-5	5	<0.750	0.375	0.375
	SS-2-1	1	<0.750	0.375	0.375
	SS-2-5	5	<0.750	0.375	0.375
	SS-3-1	1	<0.750	0.375	0.375
	SS-3-5	5	<0.750	0.375	0.375
	SS-4-1	1	<0.750	0.375	0.375
	SS-4-5	5	<0.750	0.375	0.375
	SS-5-1	1	3.75	3.75	0.375
	SS-5-5	5	<0.750	0.375	0.375
	SS-6-1	1	<0.750	0.375	0.375
	SS-6-5	5	<0.750	0.375	0.375
	SS-7-1	1	<0.750	0.375	0.375
	SS-7-5	5	<0.750	0.375	0.375
	SS-8-1	1	<0.750	0.375	0.375
SS-8-5	5	<0.750	0.375	0.375	
SS-9-1	1	<0.750	0.375	0.375	

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Ramona New Elementary School Cont.	SS-9-5	5	<0.750	0.375	0.375
	SS-10-1	1	<0.750	0.375	0.375
	SS-10-5	5	<0.750	0.375	0.375
	SS-11-1	1	<0.750	0.375	0.375
	SS-11-5	5	<0.750	0.375	0.375
	SS-12-1	1	<0.750	0.375	0.375
	SS-12-5	5	<0.750	0.375	0.375
	SS-13-1	1	<0.750	0.375	0.375
	SS-13-5	5	<0.750	0.375	0.375
	BG-1-1	1	<0.750	0.375	0.375
	BG-1-3	3	0.262	0.262	0.375
	BG-2-1	1	<0.750	0.375	0.375
	BG-2-5	5	<0.750	0.375	0.375
	BG-4-1	1	2.31	2.31	0.375
	BG-4-3	3	0.456	0.456	0.375
	BG-5-1	1	<0.750	0.375	0.375
BG-5-3	3	<0.750	0.375	0.375	
Arminta	ARM-NP-1	0.5	3.15	3.15	0.375
	ARM-NP-1	5	0.72	0.72	0.375
	ARM-NP-1	10	0.379	0.379	0.375
	ARM-NP-2	0.5	2.03	2.03	0.375
	ARM-NP-2	5.5	0.572	0.572	0.375
	ARM-SB-1	0.5	1.41	1.41	0.375
	ARM-SB-1	5	0.865	0.865	0.375
	ARM-SB-1	10	1.08	1.08	0.375
	ARM-SB-2	0.5	1.45	1.45	0.375
	ARM-SB-2	5	0.263	0.263	0.375
	ARM-SB-2	10	0.858	0.858	0.375
	ARM-SB-3	0.5	5.9	5.9	0.375
	ARM-SB-3	5	0.518	0.518	0.375
	ARM-SB-3	10	0.309	0.309	0.375
	ARM-SB-4	0.5	1.47	1.47	0.375
	ARM-SB-4	5	0.6	0.6	0.375
	ARM-SB-4	10	0.846	0.846	0.375
	ARM-SB-5	0.5	3.41	3.41	0.375
	ARM-SB-5	5	0.528	0.528	0.375
	ARM-SB-5	10	0.801	0.801	0.375
ARM-SB-6	0.5	1.32	1.32	0.375	
ARM-SB-6	5	1.96	1.96	0.375	
ARM-SB-6	10	0.261	0.261	0.375	
Francis Polytechnic	FP-PKBKG-2	2	<1.06	0.53	0.375
	FP-PKBKG-3	2	1.26	1.26	0.375
	FP-RB-1	2	1.64	1.64	0.375
	FP-RB-2	2	1.6	1.6	0.375
	FP-DP-1	0.5	2.92	2.92	0.375
	FP-DP-1	4	<1.05	0.525	0.375
	FP-DP-1	8	<1.06	0.53	0.375
	FP-DP-2	0.5	5.19	5.19	0.375

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Francis Polytechnic Cont.	FP-DP-2	4	<1.08	0.54	0.375
	FP-DP-2	8	1.08	1.08	0.375
	FP-DP-20	0.5	2.21	2.21	0.375
	FP-DP-20	4	<1.02	0.51	0.375
	FP-DP-20	8	<1.02	0.51	0.375
	FP-DP-21	0.5	<1.03	0.515	0.375
	FP-DP-21	4	<1.01	0.505	0.375
	FP-DP-21	8	<1.02	0.51	0.375
	FP-DP-22	0.5	<1.06	0.53	0.375
	FP-DP-22	4	<1.25	0.625	0.375
	FP-DP-22	8	<1.03	0.515	0.375
	FP-DP-3	0.5	4	4	0.375
	FP-DP-3	4	<1.05	0.525	0.375
	FP-DP-3	8	1.07	1.07	0.375
	FP-DP-4	0.5	5.19	5.19	0.375
	FP-DP-4	4	<1.02	0.51	0.375
	FP-DP-5	surface	2.19	2.19	0.375
	FP-DP-5	4	1.45	1.45	0.375
	FP-DP-5	8	1.07	1.07	0.375
	FP-DP-6	surface	2.13	2.13	0.375
	FP-DP-6	4	<1.06	0.53	0.375
	FP-DP-6	8	<1.04	0.52	0.375
	FP-DP-7	0.2	1.94	1.94	0.375
	FP-DP-7	4	<1.01	0.505	0.375
	FP-DP-7	8	<1.02	0.51	0.375
	FP-DP-8	surface	2.87	2.87	0.375
	FP-DP-8	4	<1.08	0.54	0.375
	FP-DP-8	8	<1.05	0.525	0.375
	FP-DP-9	surface	<1.02	0.51	0.375
	FP-DP-9	4	<1.03	0.515	0.375
	FP-DP-9	8	<1.02	0.51	0.375
	FP-DP-10	surface	3.09	3.09	0.375
	FP-DP-10	4	<1.02	0.51	0.375
	FP-DP-10	8	<1.02	0.51	0.375
	FP-DP-11	surface	1.57	1.57	0.375
	FP-DP-11	4	<1.02	0.51	0.375
	FP-DP-11	8	1.59	1.59	0.375
	FP-DP-12	surface	2.64	2.64	0.375
	FP-DP-12	4	<1.02	0.51	0.375
	FP-DP-12	8	<1.03	0.515	0.375
	FP-DP-13	surface	<1.07	0.535	0.375
	FP-DP-13	4	<1.02	0.51	0.375
	FP-DP-13	8	1.21	1.21	0.379
	FP-DP-14	surface	<1	0.5	0.393
	FP-DP-14	4	<1.05	0.525	0.456
	FP-DP-14	8	<1.02	0.51	0.476
	FP-DP-15	surface	1.58	1.58	0.477
	FP-DP-15	4	<1.06	0.53	0.5
	FP-DP-15	8	1.15	1.15	0.501

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Francis Polytechnic Cont.	FP-DP-16	surface	<1.08	0.54	0.505
	FP-DP-16	4	<1.07	0.535	0.505
	FP-DP-16	8	<1.03	0.515	0.505
	FP-DP-17	0.5	3.65	3.65	0.51
	FP-DP-17	4	1.34	1.34	0.51
	FP-DP-17	8	<1.04	0.52	0.51
	FP-DP-18	0.5	1.92	1.92	0.51
	FP-DP-18	5	<1.01	0.505	0.51
	FP-DP-18	8	<1.02	0.51	0.51
	FP-DP-19	0.5	1.2	1.2	0.51
	FP-DP-19	5	<1.04	0.52	0.51
	FP-DP-19	8	<1.03	0.515	0.51
	FP-PKBKG-2	2	<1.06	0.53	0.51
	FP-PKBKG-3	2	1.26	1.26	0.51
	FP-RB-1	2	1.64	1.64	0.51
	FP-RB-2	2	1.6	1.6	0.51
	Third Street	THIRD-SM-1	0.5	1.34	1.34
THIRD-SM-1		4	5.08	5.08	0.515
THIRD-SM-2		0.5	1.88	1.88	0.515
THIRD-SM-2		5	1.26	1.26	0.515
THIRD-SM-2		9	2.44	2.44	0.515
THIRD-SM-1A		9	1.51	1.51	0.515
THIRD-BKG-1		4.5	2.56	2.56	0.515
THIRD-BKG-2		5	1.59	1.59	0.518
THIRD-BKG-3		5	1.51	1.51	0.52
THIRD-BKG-4		5	2.37	2.37	0.52
THIRD-BKG-5		5	1.82	1.82	0.52
Glassell Park Primary Center	SS-1-0.5	1	1.38	1.38	0.525
	SS-1-4.5	5	1.35	1.35	0.525
	SS-2-0.5	1	2.35	2.35	0.525
	SS-2-4.5	5	1.93	1.93	0.525
	SS-3-0.5	1	1.79	1.79	0.528
	SS-3-4.5	5	2.76	2.76	0.53
	SS-4-0.5	1	1.2	1.2	0.53
	SS-4-4.5	5	0.851	0.851	0.53
	SS-5-0.5	1	1.3	1.3	0.53
	SS-5-4.5	5	1.46	1.46	0.53
	SS-6-0.5	1	2.41	2.41	0.53
	SS-6-4.5	5	3.57	3.57	0.535
	SS-17-1	1	1.91	1.91	0.535
	SS-7-4.5	5	2.39	2.39	0.536
	SS-8-0.5	1	2.37	2.37	0.54
	SS-8-4.5	5	2.14	2.14	0.54
	SS-9-0.5	1	1.79	1.79	0.54
	SS-9-4.5	5	2.49	2.49	0.572
	SS-10-1	1	2.25	2.25	0.586
	SS-10-4.5	5	2.1	2.1	0.6
SS-11-0.5	1	3.2	3.2	0.612	

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Glassell Park Primary Center Cont.	SS-11-4.5	5	3.13	3.13	0.625
	SS-12-0.5	1	3.53	3.53	0.642
	SS-12-4.5	5	2.35	2.35	0.66
	SS-13-0.5	1	3.76	3.76	0.664
	SS-13-4.5	5	1.36	1.36	0.683
	SS-14-0.5	1	1.77	1.77	0.706
	SS-14-4.5	5	1.25	1.25	0.72
	SS-15-0.5	1	2.58	2.58	0.735
	SS-15-5	5	1.24	1.24	0.748
Central LA High School #9 (Hill St.)	86-SS01-01	1	<0.750	0.375	0.763
	86-SS01-05	5	0.819	0.819	0.777
	86-SS02-01	1	<0.750	0.375	0.796
	86-SS02-05	5	1.4	1.4	0.801
	86-SS03-01	1	1.04	1.04	0.819
	86-SS03-05	5	<0.750	0.375	0.845
	86-SS04-01	1	<0.750	0.375	0.846
	86-SS04-02	2	<0.750	0.375	0.846
	86-SS05-01	1	<0.750	0.375	0.851
	86-SS06-01	1	<0.750	0.375	0.858
	86-SS06-05	5	<0.750	0.375	0.865
	86-SS07-01	1	<0.750	0.375	0.878
	86-SS07-05	5	<0.750	0.375	0.887
	86-SS09-01	1	<0.750	0.375	0.903
	86-SS09-05	5	<0.750	0.375	0.934
	86-SS10-01	1	<0.750	0.375	1.01
	86-SS10-05	5	<0.750	0.375	1.04
	86-SS11-01	1	<0.750	0.375	1.05
	86-SS11-05	5	1.46	1.46	1.05
	86-SS12-01	1	3.04	3.04	1.05
	86-SS12-05	5	<0.750	0.375	1.07
	86-SS13-01	1	1.75	1.75	1.07
	86-SS13-05	5	0.777	0.777	1.07
	86-SS14-01	1	1.05	1.05	1.08
	86-SS14-05	5	<0.750	0.375	1.08
	86-SS15-01	1	<0.750	0.375	1.1
	86-SS15-05	5	<0.750	0.375	1.11
	86-SS16-01	1	<0.750	0.375	1.14
	86-SS16-05	5	<0.750	0.375	1.14
	86-SS17-01	1	0.878	0.878	1.15
86-SS18-01	1	<0.750	0.375	1.15	
86-SS18-05	5	<0.750	0.375	1.18	
86-SS19-01	1	<0.750	0.375	1.2	
86-SS19-05	5	<0.750	0.375	1.2	
Park Ave Primary Center			<0.75	0.375	1.2
			<0.75	0.375	1.21
			<0.75	0.375	1.21
			<0.75	0.375	1.22
			0.212	0.212	1.24

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Park Ave Primary Center Cont.			<0.75	0.375	1.24
			<0.75	0.375	1.25
			<0.75	0.375	1.25
			<0.75	0.375	1.25
			<0.75	0.375	1.26
			<0.75	0.375	1.26
			<0.75	0.375	1.26
			<0.75	0.375	1.27
			<0.75	0.375	1.3
			<0.75	0.375	1.32
			<0.75	0.375	1.32
			3.11	3.11	1.32
			<0.75	0.375	1.34
			<0.75	0.375	1.34
			<0.75	0.375	1.34
			<0.75	0.375	1.35
			<0.75	0.375	1.36
			<0.75	0.375	1.37
			<0.75	0.375	1.38
			<0.75	0.375	1.38
		<0.75	0.375	1.38	
		<0.75	0.375	1.39	
		<0.75	0.375	1.4	
Orthopaedic Hospital Magnet High School			<0.75	0.375	1.4
			<0.75	0.375	1.41
			<0.75	0.375	1.43
			1.34	1.34	1.44
			<0.75	0.375	1.44
			<0.75	0.375	1.45
			<0.75	0.375	1.45
			<0.75	0.375	1.45
			<0.75	0.375	1.46
			2.69	2.69	1.46
			<0.75	0.375	1.46
			1.99	1.99	1.47
			<0.75	0.375	1.47
			<0.75	0.375	1.48
			<0.75	0.375	1.5
			<0.75	0.375	1.5
			<0.75	0.375	1.51
			<0.75	0.375	1.51
			0.223	0.223	1.51
			<0.75	0.375	1.52
		<0.75	0.375	1.52	
		<0.75	0.375	1.55	
		<0.75	0.375	1.56	
		<0.75	0.375	1.57	
		<0.75	0.375	1.58	
		<0.75	0.375	1.58	

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Orthopaedic Hospital Magnet High School Cont.			<0.75	0.375	1.59
			<0.75	0.375	1.59
			<0.75	0.375	1.6
			<0.75	0.375	1.6
			<0.75	0.375	1.6
			<0.75	0.375	1.6
			<0.75	0.375	1.62
			<0.75	0.375	1.64
			<0.75	0.375	1.64
			<0.75	0.375	1.66
			<0.75	0.375	1.68
			<0.75	0.375	1.7
			<0.75	0.375	1.71
			<0.75	0.375	1.75
			<0.75	0.375	1.75
			<0.75	0.375	1.77
		<0.75	0.375	1.77	
			3.04	3.04	1.78
			<0.75	0.375	1.79
Gemco			<0.75	0.375	1.79
			<0.75	0.375	1.79
			<0.75	0.375	1.79
			<0.75	0.375	1.8
			<0.75	0.375	1.8
			<0.75	0.375	1.82
			<0.75	0.375	1.82
			<0.75	0.375	1.83
			<0.75	0.375	1.83
			<0.75	0.375	1.87
			<0.75	0.375	1.88
			<0.75	0.375	1.88
			<0.75	0.375	1.88
			<0.75	0.375	1.88
			<0.75	0.375	1.89
			<0.75	0.375	1.89
			<0.75	0.375	1.9
			<0.75	0.375	1.9
			<0.75	0.375	1.91
			<0.75	0.375	1.91
			<0.75	0.375	1.91
		<0.75	0.375	1.92	
			1.96	1.96	1.92
		<0.75	0.375	0.375	1.93
		<0.75	0.375	0.375	1.94
		<0.75	0.375	0.375	1.96
		<0.75	0.375	0.375	1.96
		<0.75	0.375	0.375	1.98
		<0.75	0.375	0.375	1.99
		<0.75	0.375	0.375	2

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Gemco Cont.			<0.75	0.375	2
			<0.75	0.375	2
			<0.75	0.375	2.01
			<0.75	0.375	2.02
			<0.75	0.375	2.03
			<0.75	0.375	2.03
			<0.75	0.375	2.03
			<0.75	0.375	2.04
			<0.75	0.375	2.04
			<0.75	0.375	2.05
			<0.75	0.375	2.05
			<0.75	0.375	2.09
			<0.75	0.375	2.1
			<0.75	0.375	2.1
			<0.75	0.375	2.1
			<0.75	0.375	2.12
			<0.75	0.375	2.13
			<0.75	0.375	2.13
			<0.75	0.375	2.13
			<0.75	0.375	2.14
		<0.75	0.375	2.14	
		<0.75	0.375	2.15	
		<0.75	0.375	2.18	
		<0.75	0.375	2.19	
Accelerated	SS-A101-B102	2.5	4.34	4.34	2.19
	SS-A101-B103	5	3.09	3.09	2.2
	SS-A101-D102	2.5	2.51	2.51	2.2
	SS-A101-D103	5	1.75	1.75	2.2
	SS-A101-C202	2.5	2.68	2.68	2.21
	SS-A101-C203	5	1.79	1.79	2.21
	SS-A101-D202	2.5	1.15	1.15	2.23
	SS-A101-D203	5	1.27	1.27	2.25
	BS-AREA1-04-5	5	0.887	0.887	2.26
	SS-AREA1-04-4	4	<0.75	0.375	2.26
	SS-A102-5	5	2.41	2.41	2.27
	SS-A102-10	10	2.26	2.26	2.27
	SS-A103-5	5	1.51	1.51	2.3
	SS-A103-10	10	2.03	2.03	2.31
	SS-A104-10	10	2.61	2.61	2.31
	SS-A105-5	5	2.31	2.31	2.32
	SS-A105-10	10	2.53	2.53	2.35
	SS-A106-1	0.5	3.61	3.61	2.35
	SS-A106-5	5	1.71	1.71	2.37
	SS-A107-5	5	2.46	2.46	2.37
	SS-A107-10D	10	2.9	2.9	2.37
	SS-A108-5	5	3.27	3.27	2.39
	SS-A108-10	10	3.52	3.52	2.4
SS-A109-5	5	1.37	1.37	2.4	
SS-A110-5	5	1.82	1.82	2.41	

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Accelerated Cont.	SS-A111-5	5	1.45	1.45	2.41
	SS-A112-5	5	1.46	1.46	2.44
	SS-A113-5	5	1.11	1.11	2.44
	SS-A113-10	10	2.14	2.14	2.45
	SS-A114-5	5	2.94	2.94	2.46
	SS-A114-10	10	2.44	2.44	2.46
	SS-A115-5	5	1.91	1.91	2.47
	SS-A115-10	10	3.41	3.41	2.48
	SS-A117-5	5	1.52	1.52	2.49
	SS-A118-5	5	1.43	1.43	2.5
	SS-A119-1	0.5	3.82	3.82	2.5
	SS-A120-1	0.5	3.68	3.68	2.5
	SS-A120-5	5	1.18	1.18	2.5
	SS-A121-1	0.5	1.79	1.79	2.5
	SS-A121-5	5	2.27	2.27	2.5
	SS-A201-1	0.5	2.93	2.93	2.5
	SS-A201-5	5	1.32	1.32	2.51
	SS-A202-1	0.5	4.31	4.31	2.53
	SS-A202-5	5	1.87	1.87	2.56
	SS-A203-1	0.5	1.25	1.25	2.58
	SS-A203-5	5	2.5	2.5	2.58
	SS-A204-1	0.5	2.67	2.67	2.61
	SS-A204-8	8	1.14	1.14	2.62
	SS-A301-1	0.5	1.8	1.8	2.64
	SS-A301-5	5	1.58	1.58	2.67
	SS-A302-1	0.5	1.83	1.83	2.67
	SS-A302-5	5	1.48	1.48	2.68
	SS-A303-1	0.5	2.67	2.67	2.69
	SS-A303-5	5	1.68	1.68	2.7
	SS-A304-1	0.5	2.45	2.45	2.75
	SS-A304-5	5	1.39	1.39	2.75
	SS-A401-1	0.5	1.77	1.77	2.76
	SS-A401-5	5	1.52	1.52	2.77
	SS-A402-1	0.5	2.18	2.18	2.8
	SS-A402-5	5	1.62	1.62	2.8
	SS-A403-1	0.5	4.42	4.42	2.8
	SS-A403-5	5	1.38	1.38	2.8
	SS-A404-A103	5	2.32	2.32	2.81
	SS-A404-B103	5	1.91	1.91	2.85
	SS-A404-C103	5	1.47	1.47	2.87
	SS-A404-A203	5	2.58	2.58	2.9
	SS-A404-B203	5	1.83	1.83	2.92
	SS-A404-C203	5	2.15	2.15	2.93
	SS-A404-D203	5	1.6	1.6	2.94
	BS-AREA4-02-10	10	1.07	1.07	3.01
	BS-AREA4-03-10	10	2.81	2.81	3.04
	SS-AREA4-02-7	7	<0.75	0.375	3.04
	SS-AREA4-03-7	7	0.476	0.476	3.07
	SS-A405-1	0.5	1.9	1.9	3.09

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Accelerated Cont.	SS-A405-5	5	1.66	1.66	3.09
	SS-A406-5	5	2.48	2.48	3.1
	SS-A407-5	5	2.37	2.37	3.1
	SS-A408-5	5	2.47	2.47	3.11
	SS-A409-1	0.5	3.01	3.01	3.13
	SS-A409-5	5	1.55	1.55	3.15
	SS-A410-1	0.5	3.15	3.15	3.15
	SS-A410-5	5	2.27	2.27	3.2
	SS-A411-1	0.5	2.85	2.85	3.2
	SS-A411-5	5	1.38	1.38	3.27
	SS-A412-1	0.5	3.07	3.07	3.27
	SS-A412-5	5	1.8	1.8	3.3
	F1A4-01-5.0	5	0.279	0.279	3.41
	F1A4-01-7.5	7.5	<0.750	0.375	3.41
	F1A4-01-10	10	0.188	0.188	3.5
	F1A4-03-5.0	5	0.393	0.393	3.5
	F1A4-03-7.5	7.5	<0.75	0.375	3.52
	F1A4-03-10	10	<0.75	0.375	3.53
	F1A4-04-5.0	5	0.683	0.683	3.57
	F1A4-04-7.5	7.5	0.706	0.706	3.6
	F1A4-04-10	10	0.748	0.748	3.6
	F1A4-05-5.0	5	0.23	0.23	3.61
	F1A4-06-5.0	5	0.664	0.664	3.65
	F1A4-07-5.0	5	<0.75	0.375	3.68
	F1A4-08-5.0D	5.5	0.846	0.846	3.68
	F1A4-09-5.0	5	0.348	0.348	3.75
	F1A4-09-7.5D	8	0.66	0.66	3.76
	F1A4-09-10	10	0.934	0.934	3.76
	F1A4-10-5.0	5	0.845	0.845	3.82
	F1A4-10-7.5	7.5	<0.75	0.375	3.83
	F1A4-10-10	10	1.56	1.56	4
	F1A4-11-5.0	5	0.586	0.586	4.2
	F1A4-11-7.5	7.5	0.612	0.612	4.21
F1A4-11-10	10	0.501	0.501	4.31	
F1A4-20-5.0	5	0.208	0.208	4.34	
F1A4-21-5.0	5	0.299	0.299	4.4	
F1A4-21-7.5	7.5	<0.75	0.375	4.4	
F1A4-21-10	10	1.14	1.14	4.42	
F1A4-39-5.0	5	1.22	1.22	4.5	
F1A4-40-5.0	5	0.796	0.796	4.54	
F1A4-40-7.5	7.5	1.05	1.05	4.7	
F1A4-40-10	10	1.24	1.24	4.7	
Lankershim	83-B12-0101	1	1.4	1.4	4.7
	83-B12-0201	2	1.44	1.44	4.71
	83-B14-0101	1	1.01	1.01	5
	83-B14-0201	2	1.32	1.32	5.08
	83-SB08-0101	1	0.903	0.903	5.14
	83-SB08-0201	2	1.21	1.21	5.19
	83-SB12-0101	1	1.25	1.25	5.19

**Table B-1
Combined LAUSD Arsenic Data**

School	Sample	Depth (feet)	Arsenic Concentration (mg/kg)	Arsenic Concentration (ND = 1/2*PQL) (mg/kg)	Ranked Arsenic Concentration (mg/kg)
Lankershim Cont.	83-SB12-0201	2	0.477	0.477	5.4
	83-SB14-0101	1	3.68	3.68	5.6
	83-SB14-0201	2	0.763	0.763	5.6
	83-SB16-0101	1	1.98	1.98	5.63
	83-SB16-0201	2	1.05	1.05	5.9
				Summary	Statistics
				N	589
				Minimum	0.188
				Maximum	5.9
				Median	0.664
				50th-Percentile	0.664
				99th-Percentile	5.19
				1st Quartile (Q1)	0.375
				3rd Quartile (Q3)	2.03

DESCRIPTIVE STATISTICS

**Table B-2
Descriptive Statistics
Arsenic in Soil (mg/kg)
LAUSD Sites**

Site	Size (n)	% ND	Minimum (Q ₀)	1st Quartile (Q ₁)	Median (Q ₂)	3rd Quartile (Q ₃)	Maximum (Q ₄)	Interquartile Range (Q ₃ - Q ₁)
Belmont/Hollywood PC #2	4	0	1.90	1.98	2.25	2.50	2.50	0.53
Towne Ave.	41	0	1.10	2.20	2.80	3.60	5.60	1.40
Manual Arts ES #1	48	79	0.20	0.38	0.38	0.38	4.71	0.00
Yorkdale	36	0	1.44	1.91	2.11	2.65	5.63	0.74
Ramona New ES	34	88	0.26	0.38	0.38	0.38	3.75	0.00
Arminta	27	4	0.26	0.55	0.87	1.54	5.90	0.98
Francis Polytechnic	69	61	0.5	0.51	0.53	1.57	5.19	1.06
Third Street	11	0	1.26	1.51	1.82	2.41	5.08	0.90
Glassell Park PC	30	0	0.85	1.4	2.12	2.47	3.76	1.07
Central LA HS #9 (Hill St.)	34	74	0.38	0.38	0.38	0.68	3.04	0.30
Park Ave. PC	28	93	0.21	0.38	0.38	0.38	3.11	0.00
Orthopaedic Hospital Magnet HS	45	89	0.22	0.38	0.38	0.38	3.04	0.00
Gemco	54	98	0.38	0.38	0.38	0.38	1.96	0.00
Accelerated	116	7	0.19	1.02	1.64	2.45	4.42	1.43
Lankershim	12	0	0.48	0.98	1.23	1.41	3.68	0.43

**BOX PLOTS OF ARSENIC DATA
FOR INDIVIDUAL SCHOOL SITES**

Figure 2
Normality Plot of Arsenic Data

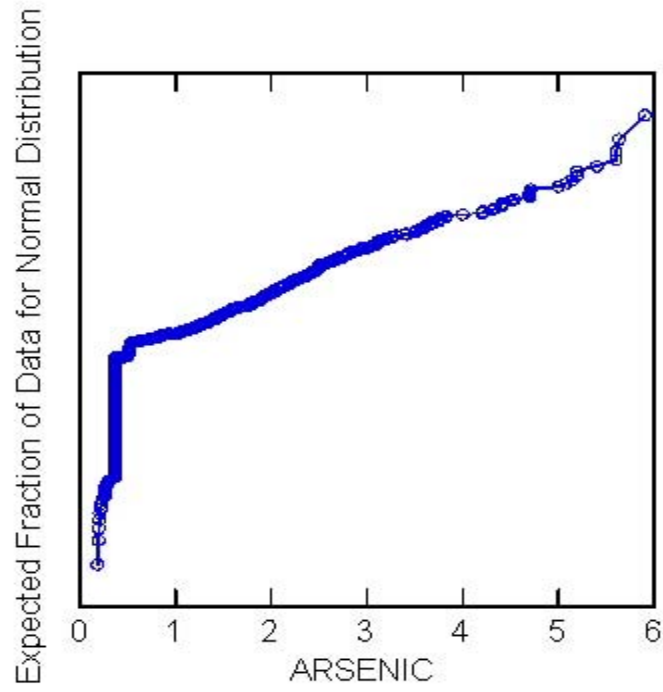


Figure 3
Normality plot of the Log-Transformed Arsenic Data

