

Attachment 1
Site Inspection

3.	O&M and OSHA Training Records	Readily available	Up to date	N/A
Remarks: Not available during the site inspection.				
4.	Permits and Service Agreements			
	Air discharge permit	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
	Effluent discharge	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
	Waste disposal, POTW	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
	Other permits _____	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
5.	Gas Generation Records	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
6.	Settlement Monument Records	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
7.	Groundwater Monitoring Records	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
8.	Leachate Extraction Records	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
9.	Discharge Compliance Records			
	Air	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
	Water (effluent)	Readily available	Up to date	N/A
Remarks: The DWR indicated that they would provide analytical data for grab surface water samples collected from the ponding basin prior to releasing water to the California Aqueduct for flood controls purposes. The DWR indicated that they compare this data to constituent concentrations in the aqueduct to make sure that water with constituent concentrations greater than those already present in the aqueduct is not released to the aqueduct.				
10.	Daily Access/Security Logs	Readily available	Up to date	<input checked="" type="checkbox"/> N/A
Remarks:				
IV. O&M COSTS				
1.	O&M Organization	State in-house: DWR, United States Bureau of Reclamation Contractor for State: N/A		
2.	O&M Cost Records	Readily available	Up to date	
	Funding mechanism/agreement in place	<input checked="" type="checkbox"/>	Not Available	
3.	Unanticipated or Unusually High O&M Costs During Review Period	Describe costs and reasons: N/A		
V. ACCESS AND INSTITUTIONAL CONTROLS <input checked="" type="checkbox"/> Applicable				
A. Fencing				
1.	Fencing	Location shown on site map	<input checked="" type="checkbox"/> Gates secured	N/A
Remarks: The site is only partially fenced. Locked gates on the access road along the aqueduct prevent access to the aqueduct. However, because the site is not completely fenced, trespassers continue to access the site and the aqueduct.				

1.	Settlement (Low spots) Areal extent _____ Remarks:	Location shown on site map Depth	Settlement not evident
2.	Cracks Lengths _____ Remarks:	Location shown on site map Widths _____ Depth	Cracking not evident
3.	Erosion Areal extent _____ Remarks:	Location shown on site map Depth	Erosion not evident
4.	Holes Areal extent _____ Remarks:	Location shown on site map Depth	Holes not evident
5.	Vegetative Cover Trees/Shrubs (indicate size and locations on a diagram) Remarks:	Grass Cover properly established	No signs of stress
6.	Alternative Cover (armored rock, concrete, etc.) Remarks:	N/A	
7.	Bulges Areal extent _____ Remarks:	Location shown on site map Height	Bulges not evident
8.	Wet Area/Water Damage Wet areas Ponding Seeps Soft subgrade Remarks:	Wet areas/water damage not evident Location shown on site map Location shown on site map Location shown on site map Location shown on site map	Areal extent Areal extent Areal extent Areal extent
9.	Slope Instability Areal extent Remarks:	Slides Location shown on site map	No evidence of slope instability
B. Benches Applicable <input checked="" type="checkbox"/> N/A (Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)			
1.	Flows Bypass Bench Remarks:	Location shown on site map	N/A
2.	Bench Breached Remarks:	Location shown on site map	N/A
3.	Bench Overtopped Remarks:	Location shown on site map	N/A

Site Inspection Checklist for the Arroyo Pasajero Ponding Basin

PREPARED FOR: United States Environmental Protection Agency
PREPARED BY: Alexa Stamets/CH2M HILL
DATE: May 18, 2006

The site inspection checklist for the Arroyo Pasajero Ponding Basin, which is geographically located within the Atlas Asbestos Mine Superfund Site, is presented in this technical memorandum. This site inspection was performed between on May 2, 2006. The individuals that were present are indicated in Table 1.

TABLE 1

Site Inspection Team Roster for the Arroyo Pasajero Ponding Basin, May 2, 2006
Five-Year Review Report, Atlas Asbestos Mine Superfund Site and Coalinga Asbestos Mine (Johns-Manville Mill) Superfund Site, Fresno County, California

Name	Title	Affiliation
Lynn Suer, Ph.D.	Remedial Project Manager	U.S. EPA
Alexa Stamets, P.E.	Project Manager	CH2M HILL (contractor to U.S. EPA)
Ghassan ALQaser, Ph.D.		State of California Department of Water Resources

Five-Year Review Site Inspection Checklist
Arroyo Pasajero Ponding Basin, Atlas Mine Superfund Site

I. SITE INFORMATION		
Site name: Arroyo Pasajero Ponding Basin, Atlas Mine Superfund Site	Date of inspection: May 2, 2006	
Location and Region: Coalinga, CA, Region IX	EPA ID: 0934, CAD980496863	
Agency, office, or company leading the five-year review: EPA Region IX	Weather/temperature: Sunny, approximately 70 °F.	
Remedy Includes: (Check all that apply) Landfill cover/containment Access controls Institutional controls Groundwater pump and treatment Surface water collection and treatment Other:		
Attachments: <input checked="" type="checkbox"/> Inspection team roster attached <input checked="" type="checkbox"/> Site map attached [in report]		
II. INTERVIEWS (Check all that apply)		
1. O&M site manager: N/A		
2. Local regulatory authorities and responsible agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency: State of California Department of Water Resources (DWR) Contact: Ghassan ALQaser, 916/653-8374		
III. ONSITE DOCUMENTS AND RECORDS VERIFIED (Check all that apply)		
1.	O&M Documents O&M manual Readily available Up to date As-built drawings Readily available Up to date Maintenance logs Readily available Up to date Remarks: An O&M Manual has not been developed for this site. As-built drawings documenting recent construction activities have not been developed.	
2.	Site-Specific Health and Safety Plan Readily available Up to date Contingency plan/emergency response plan Readily available Up to date Remarks: Not available during the site inspection.	

B. Other Access Restrictions			
1.	Signs and other security measures	Location shown on site map	N/A
Remarks: No signs warning visitors and trespassers that asbestos is present were observed during the site inspection.			
C. Institutional Controls			
1.	Implementation and enforcement		
	Site conditions imply ICs not properly implemented	Yes	No <input checked="" type="checkbox"/> N/A
	Site conditions imply ICs not being fully enforced	Yes	No <input checked="" type="checkbox"/> N/A
Type of monitoring (e.g., self-reporting, drive by): N/A			
Frequency: N/A			
Responsible party/agency: N/A			
	Reporting is up-to-date	Yes	No <input checked="" type="checkbox"/> N/A
	Reports are verified by the lead agency	Yes	No <input checked="" type="checkbox"/> N/A
	Specific requirements in deed or decision documents have been met	Yes	No <input checked="" type="checkbox"/> N/A
	Violations have been reported	Yes	No <input checked="" type="checkbox"/> N/A
Other problems or suggestions:			
2.	Adequacy	ICs are adequate <input checked="" type="checkbox"/> ICs are inadequate	N/A
Remarks: Institutional controls may be appropriate to prohibit sensitive uses of the site.			
D. General			
1.	Vandalism/trespassing	Location shown on site map	No vandalism evident
Remarks: The presence of trash and tire tracks on the ground surface at the site suggests that trespassers access and use the site. According to Ghassan ALQaser/DWR, trespassers access the site by coming over flood control levees and generally come through the site to fish in the California Aqueduct. Mr. ALQaser indicated large volumes of trash generated by trespassers have been removed from the site.			
2.	Land use changes onsite	Remarks: Land within the ponding basin adjacent to Gale Avenue is used to grow crops.	
3.	Land use changes offsite	Remarks: None noted during the site inspection. The surrounding area is largely agricultural.	
VI. GENERAL SITE CONDITIONS			
A. Roads	<input checked="" type="checkbox"/> Applicable		
1.	Roads	Location shown on site map <input checked="" type="checkbox"/> Roads adequate	N/A
Remarks: Access roads are located parallel to the aqueduct and parallel to Gale Avenue. The roads are composed of soil with elevated concentrations of asbestos. However, a 4-6" thick gravel layer covers the road to prevent exposure to asbestos in soil. These roads should be maintained over time to mitigate exposure to asbestos in soils that compose the roads.			
VII. LANDFILL COVERS <input checked="" type="checkbox"/> Not Applicable			
A. Landfill Surface	<input checked="" type="checkbox"/> N/A		

C. Letdown Channels					Applicable	<input checked="" type="checkbox"/> N/A
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)						
1.	Settlement	Location shown on site map	No evidence of settlement		Remarks:	
	Areal extent _____	Depth				
2.	Material Degradation	Location shown on site map	No evidence of degradation		Remarks:	
	Material type _____	Areal extent				
3.	Erosion	Location shown on site map	No evidence of erosion		Remarks:	
	Areal extent _____	Depth				
4.	Undercutting	Location shown on site map	No evidence of undercutting		Remarks:	
	Areal extent _____	Depth				
5.	Obstruction	Type _____	No obstruction		Remarks:	
	Location shown on site map	Areal extent				
	Size					
6.	Excessive Vegetative Growth	Type	No evidence of excessive growth			
	Vegetation in channels does not obstruct flow					
	Location shown on site map	Areal extent	Remarks:			
D. Cover Penetrations					Applicable	<input checked="" type="checkbox"/> N/A
1.	Gas Vents	Active	Passive	Remarks:		
	Properly secured/located	Functioning	Routinely sampled	Good condition		
	Evidence of leakage at penetration					
2.	Gas Monitoring Probes	Functioning	Routinely sampled	Remarks:		
	Properly secured/located	Routinely sampled		Good condition		
	Evidence of leakage at penetration					
3.	Monitoring Wells (within surface area of landfill)	Functioning	Routinely sampled	Remarks:		
	Properly secured/located	Routinely sampled		Good condition		
	Evidence of leakage at penetration					

4.	Leachate Extraction Wells Properly secured/located Functioning Evidence of leakage at penetration Needs O&M Remarks:	Routinely sampled	Good condition N/A
5.	Settlement Monuments Located Remarks:	Routinely surveyed	N/A
E. Gas Collection and Treatment		Applicable	<input checked="" type="checkbox"/> N/A
1.	Gas Treatment Facilities Flaring Thermal destruction Good condition Needs O&M Remarks:	Collection for reuse	
2.	Gas Collection Wells, Manifolds and Piping Good condition Needs O&M Remarks:		
3.	Gas Treatment Facilities (e.g., gas monitoring of adjacent homes or buildings) Good condition Needs O&M N/A Remarks:		
F. Cover Drainage Layer		Applicable	<input checked="" type="checkbox"/> N/A
1.	Outlet Pipes Inspected Remarks:	Functioning	N/A
2.	Outlet Rock Inspected Remarks:	Functioning	N/A
G. Detention/Sedimentation Ponds		<input checked="" type="checkbox"/> Applicable	N/A
1.	Siltation <input checked="" type="checkbox"/> Siltation not evident Remarks: Detention pond is covered in vegetation.		
2.	Erosion Areal extent _____ Depth <input checked="" type="checkbox"/> Erosion not evident Remarks:		
3.	Outlet Works Remarks: Water in the vegetative detention pond is released to California Aqueduct. Surface water is drained from the pond to the aqueduct only when needed for flood control purposes.	<input checked="" type="checkbox"/> Functioning	N/A
4.	Dam Remarks:	Functioning	<input checked="" type="checkbox"/> N/A
H. Retaining Walls		Applicable	<input checked="" type="checkbox"/> N/A
1.	Deformations Location shown on site map Horizontal displacement _____ Rotational displacement _____ Remarks:	Deformation not evident Vertical displacement	

2.	Degradation Remarks:	Location shown on site map	Degradation not evident
I. Perimeter Ditches/Off-Site Discharge		<input checked="" type="checkbox"/> Applicable	N/A
1.	Siltation Areal extent _____ Depth Remarks:	Location shown on site map	<input checked="" type="checkbox"/> Siltation not evident
2.	Vegetative Growth Vegetation does not impede flow Remarks: Significant vegetative growth in detention pond at Gale Avenue.	Location shown on site map	N/A
3.	Erosion Areal extent _____ Depth Remarks:	Location shown on site map	<input checked="" type="checkbox"/> Erosion not evident
4.	Discharge Structure Remarks: Gabion weir for discharge from the ponding basin to vegetative detention pond. Flood control drain inlets on California aqueduct for discharge from the vegetative detention pond to the aqueduct.	<input checked="" type="checkbox"/> Functioning	N/A
VIII. VERTICAL BARRIER WALLS		<input checked="" type="checkbox"/> Not Applicable	
1.	Settlement Remarks:	Location shown on site map	Settlement not evident
2.	Performance Monitoring Performance not monitored Frequency _____ Head differential Remarks:	Type of monitoring Evidence of breaching	
IX. GROUNDWATER/SURFACE WATER REMEDIES		<input checked="" type="checkbox"/> Not Applicable	
A. Groundwater Extraction Wells, Pumps, and Pipelines			
1.	Pumps, Wellhead Plumbing, and Electrical Good condition Remarks:	All required wells located	Needs O&M N/A
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances Good condition Remarks:	Needs O&M	
3.	Spare Parts and Equipment Readily available Remarks:	Good condition	Requires upgrade Needs to be provided
B. Surface Water Collection Structures, Pumps, and Pipelines			
1.	Collection Structures, Pumps, and Electrical Good condition Remarks:	Needs O&M	

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

The United States Environmental Protection Agency (USEPA) provided in ROD that it is not taking any action in the Ponding Basin because the United States Bureau of Reclamation (USBR) and the Department of Water Resources (DWR) are considering actions to minimize the generation of asbestos-laden dust and to prevent run-off to the California Aqueduct from the Ponding Basin. In 1992, USEPA published a public notice regarding the status of the Ponding Basin (Appendix B). In that notice, USEPA stated that plans for the Ponding Basin established by the USBR and DWR were adequate to address the threat from asbestos in the Ponding Basin and stated it would take no further action regarding the Ponding Basin under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Run-off to the aqueduct from the Ponding Basin is currently controlled. Controlled releases are only made when necessary for flood control purposes, and samples are collected prior to such releases to ensure elevated constituent concentrations are not released to the aqueduct. Vegetation and gravel-covered roads prevent airborne asbestos from being generated. However, trespassers are driving in areas without gravel or vegetation, which is likely to result in generation of airborne asbestos. Additional actions should be taken to prevent trespassers from accessing the site.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

The existing O&M is inadequate. Routine inspections should be performed to determine if the gravel road or site fencing requires maintenance. Repairs should be made as necessary.

C. Early Indicators of Potential Remedy Failure

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.

Trespassers to the site may be exposed to asbestos. Additional security measures (i.e., fencing, locks, and signage) should be implemented to prevent trespassers from accessing the site. Institutional controls may be appropriate to prohibit sensitive uses of the site.

D. Opportunities for Optimization

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

See responses above.



The vegetative detention pond, showing the gabion weir along the perimeter of the pond and the drain control structure that releases water from the pond to the California Aqueduct when necessary for flood control. This detention pond is located immediately north of Gale Avenue on the western side of the California Aqueduct. The California Aqueduct is visible on the right side of the photograph.



The gabion wall extends along the western side of the vegetative detention pond. The gabion weir prevents water from entering this vegetative area. No significant volume of water was observed in this pond during the site inspection.



Portion of the ponding basin west (upstream) of the gabion weir along Gale Avenue. Surface water collects behind the gabion weir, as presented in this photograph.



Further west along Gale Avenue, land within the ponding basin is used to grow crops.



Southern embankment of access road running parallel to Gale Avenue. This slope has been seeded to promote vegetation growth and to prevent erosion. Approximately 4 to 6 inches of gravel was placed over the access road to prevent exposure to elevated asbestos levels in the dirt road. This gravel layer is visible in the photograph.



Railroad tracks that run through the ponding basin and across the California Aqueduct. Tire tracks and garbage in this area of the site suggest that trespassers access this area.



Presence of tire tracks on the dirt surface and garbage suggest that trespassers access this area.



Trespass access route through ponding basin.

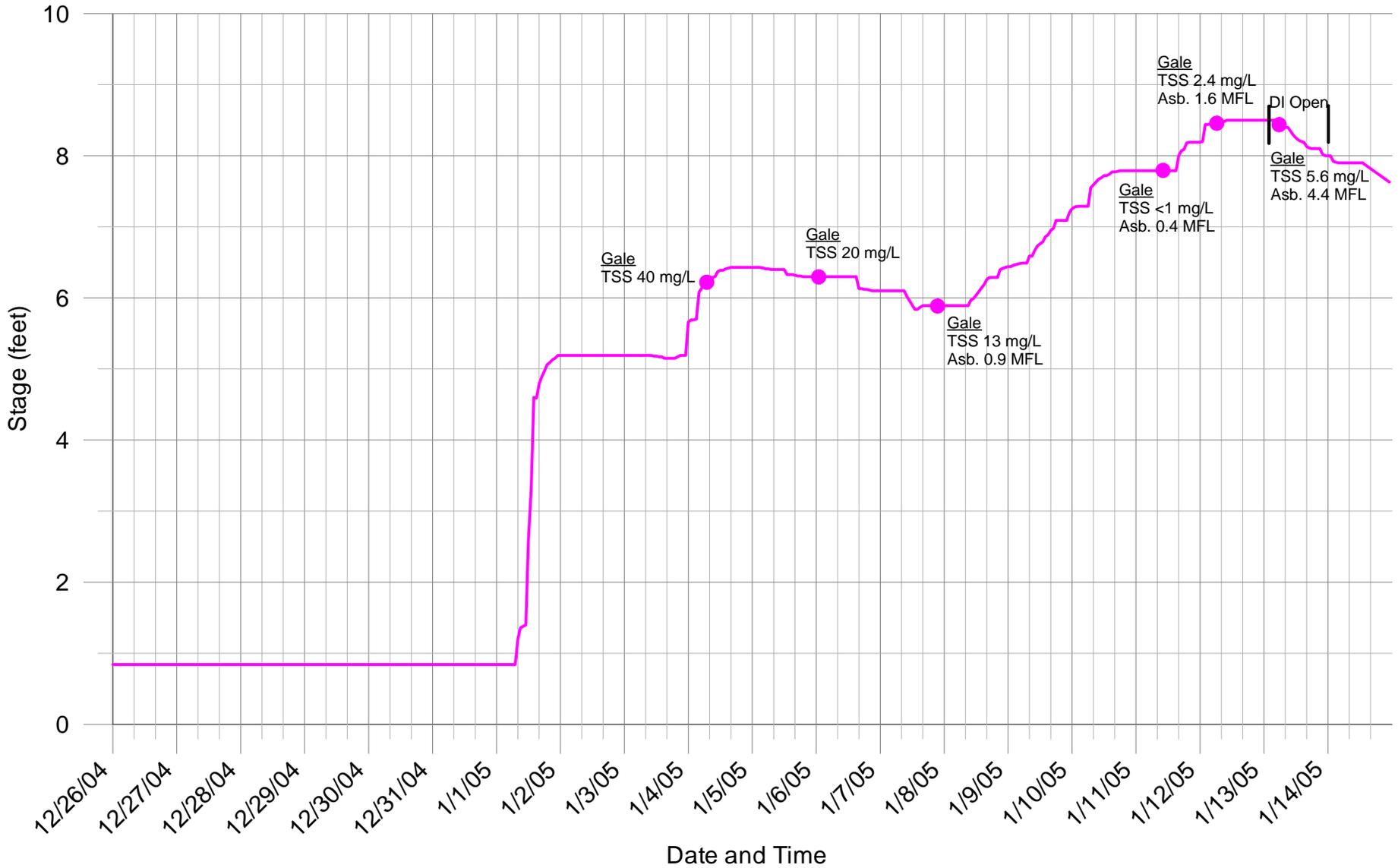
Attachment 2
Analytical Data from Water Samples

Analytical results for asbestos in the Arroyo Pasajero basin near the gabions and/or inlet gates

Station	Sample Taken		Field		Concentration >10 μ m (MFL)	Sensitivity >10 μ m (MFL)
	Date	Time	Stage (ft)	Flow (cfs)		
Basin at Gale Avenue	1/13/2005	12:00	324.2		4.4	2.2
Basin at Gale Avenue	1/12/2005	10:45	324.5		0.4	0.2
Basin at Gale Avenue	1/11/2005	12:30	323.9		1.6	0.2
Basin at Gale Avenue	1/7/2005	13:40	321.8		0.9	0.2
Basin at Gale Avenue	1/5/2005	9:20			2.2	2.2
Basin at Gale Avenue	1/3/2005	15:20	321.0		4.4	2.2

Source: Provided by the Department of Water Resources in 2006

January 2005 Arroyo Pasajero at Gale Avenue Stage and Water Quality Comparison



Source: Provided by the Department of Water Resources in 2006

Data from selected monitoring stations at the California Aqueduct

Station	StationName	SampleDate	SampleTime	SampleType	FieldTurb	FiberLength	CrysotileMFL	CrysotileDetectionLimit
KA000331	BANKS P.P.	2/28/2001	0	Normal Sample		>10	0	1
KA000331	BANKS P.P.	5/16/2001	0	Normal Sample		>10	0	0.5
KA000331	BANKS P.P.	9/19/2001	705	Normal Sample		>10	0	0.4
KA000331	BANKS P.P.	2/20/2002	845	Normal Sample		>10	0	0.4
KA000331	BANKS P.P.	5/15/2002	645	Normal Sample	16.4	>10	0	0.4
KA000331	BANKS P.P.	8/23/2002	1140	Normal Sample	10.1	>10	0	0.5
KA000331	BANKS P.P.	2/19/2003	715	Normal Sample		>10	0	0.101
KA000331	BANKS P.P.	5/21/2003	0	Normal Sample	8.3	>10	0	0.205
KA017226	Cal. Aqu. Check 21	2/15/2001	1331	Normal Sample	21.33	>10	0	2.2
KA017226	Cal. Aqu. Check 21	2/20/2001	1446	Normal Sample	3.4	>10	0	0.2
KA017226	Cal. Aqu. Check 21	5/15/2001	1235	Normal Sample		>10	0	0.2
KA017226	Cal. Aqu. Check 21	8/14/2001	1142	Normal Sample	10.5	>10	0	0.4
KA017226	Cal. Aqu. Check 21	11/13/2001	1322	Normal Sample	3.7	>10	0	0.2
KA017226	Cal. Aqu. Check 21	2/19/2002	1316	Normal Sample	9.3	>10	0	0.4
KA017226	Cal. Aqu. Check 21	5/14/2002	1430	Normal Sample	4	>10	0	0.2
KA017226	Cal. Aqu. Check 21	8/20/2002	1415	Normal Sample		>10	0	0.2
KA017226	Cal. Aqu. Check 21	2/18/2003	1437	Normal Sample	5.2	>10	0	0.117
KA017226	Cal. Aqu. Check 21	5/19/2003	1039	Normal Sample	5.3	>10	0	0.205
KA017226	Cal. Aqu. Check 21	8/13/2003	917	Normal Sample	6.1	>10	0	20.894
KA030341	Cal. Aqu. Check 41	2/21/2001	800	Normal Sample	4.4	>10	0	0.4
KA030341	Cal. Aqu. Check 41	5/17/2001	810	Normal Sample		>10	0	0.2
KA030341	Cal. Aqu. Check 41	11/14/2001	800	Normal Sample	10.6	>10	0	0.2
KA030341	Cal. Aqu. Check 41	2/20/2002	1030	Normal Sample	18.8	>10	0	0.4
KA030341	Cal. Aqu. Check 41	5/15/2002	800	Normal Sample	7.3	>10	0	0.4
KA030341	Cal. Aqu. Check 41	8/21/2002	0	Normal Sample	7.3	>10	0	0.2
KA030341	Cal. Aqu. Check 41	11/21/2002	800	Normal Sample	7.36	>10	0	0.2
KA030341	Cal. Aqu. Check 41	5/14/2003	900	Normal Sample	8.03	>10	0	0.205

Notes:

"0" in Crysotile field indicates concentration was not detected above detection limit

Source: Provided by the Department of Water Resources in 2006

Attachment 3
Analytical Data from Soil Samples

Table 4. Summary of Analytical Results

DWR ID #	Sequoia ID #	Depth (feet)	% Asbestos	Type
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[A] Arroyo Pasajero Channel

A1	S402339-01	3	<0.25%	C
A1A	S402363-07	2	0.75%	C
A1B	S402363-08	4	0.75%	C
A2	S402339-02	2	0.75%	C
A3 ^D	S402339-03	2	0.25%	C
A4	S402339-04	0	<0.25%	C
A5	S402339-05	1	0.25%	C

[B] Huron WWTP

B1	S402339-06	5	0.25%	C
B2 ^D	S402339-07	5	0.25%	C
B3	S402339-08	6	<0.25%	C
B4	S402339-09	9	0.50%	C
B5	S402339-10	10	0.75%	C
B6	S402339-11	0	ND	
B7	S402339-12	1	<0.25%	C
B8	S402339-13	5	0.50%	C
B9	S402339-14	6	0.25%	C
B10	S402339-15	2	0.50%	C
B11	S402339-16	5	1.50%	C
B12	S402339-17	6	0.50%	C
B13 ^D	S402339-18	6	0.50%	C
B14	S402339-19	9	0.50%	C
B15	S402339-20	1	<0.25%	C
B16 ^D	S402339-21	1	<0.25%	C
B17	S402339-22	4	<0.25%	C
B18	S402339-23	6	0.50%	C
B19	S402339-24	9	1.75%	C
B20	S402339-25	0	ND	
B21	S402339-26	4	<0.25%	C
B22	S402339-27	10	0.25%	C
B23	S402339-28	11	0.25%	C
B24	S402339-29	0	ND	
B25	S402339-30	3	1.00%	C
B26	S402339-31	7	0.25%	C
B27	S402339-32	8	0.25%	C
B28	S402339-33	1	ND	
B29 ^D	S402339-34	1	0.25%	C
B30	S402339-35	6	0.50%	C
B31	S402339-36	7	0.25%	C
B32	S402339-37	10	<0.25%	C

DWR ID #	Sequoia ID #	Depth (feet)	% Asbestos	Type
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[B] Huron WWTP (continued)

B33	S402339-38	0	<0.25%	C
B34	S402339-39	1	<0.25%	C
B35	S402339-40	2	0.25%	C
B36	S402339-41	11	<0.25%	C

[C] SJV Rail Road Crossing

C1	S402339-42	3	0.25%	C
C2	S402339-43	1	<0.25%	C
C3	S402339-44	11	0.25%	C
C4	S402339-45	0	ND	
C5	S402339-46	0	ND	
C6	S402339-47	5	0.25%	C
C7	S402339-48	9	0.75%	C
C8	S402339-49	1	ND	
C8A	S402363-09	0	<0.25%	C
C8B	S402363-10	2	<0.25%	C
C9 ^D	S402339-50	1	ND	

[D] Gale Avenue

D1	S402339-51	2	<0.25%	C
D2	S402339-52	5	0.25%	C
D3	S402339-53	8	0.50%	C
D4	S402339-54	10	0.50%	C
D5	S402339-55	2	<0.25%	C
D6	S402339-56	6	0.25%	C
D7	S402339-57	8	0.50%	C
D8	S402339-58	10	0.75%	C
D9	S402339-59	2	<0.25%	C
D10	S402339-60	5	0.50%	C
D11	S402339-61	5	0.25%	C
D12	S402339-62	7	ND	
D13	S402339-63	9	0.25%	C
D14	S402339-64	4	0.25%	C
D15	S402339-65	7	0.75%	C
D16	S402339-66	8	0.25%	C
D17 ^D	S402339-67	8	1.00%	C
D18	S402339-68	10	0.50%	C
D19	S402339-69	4	1.00%	C
D20	S402339-70	7	<0.25%	C
D21	S402339-71	9	0.25%	C
D22	S402339-72	11	<0.25%	C
D23	S402339-73	2	0.50%	C

Table 4. Summary of Analytical Results (continued)

DWR ID #	Sequoia ID #	Depth (feet)	% Asbestos	Type	DWR ID #	Sequoia ID #	Depth (feet)	% Asbestos	Type
[D] Gale Avenue (continued)					[E] Proposed Construction Site				
D24	S402339-74	4	<0.25%	C	E1	S402339-87	0	<0.25%	C
D25 ^D	S402339-75	4	<0.25%	C	E2	S402339-88	0	0.25%	C
D26	S402339-76	8	0.25%	C	E3	S402339-89	0	<0.25%	C
D27	S402339-77	9	<0.25%	C	E4	S402339-90	0	<0.25%	C
D28	S402339-78	5	0.25%	C	E5	S402363-01	0	<0.25%	C
D29	S402339-79	6	0.75%	C	E6	S402363-02	0	0.25%	C
D30	S402339-80	9	<0.25%	C	E7 ^D	S402363-03	0	1.00%	C
D31	S402339-81	11	<0.25%	C	E8	S402363-04	0	<0.25%	C
D32	S402339-82	4	<0.25%	C	E9	S402363-05	0	<0.25%	C
D33 ^D	S402339-83	4	ND		E10	S402363-06	0	0.25%	C
D34	S402339-84	6	<0.25%	C					
D35	S402339-85	8	0.50%	C					
D36	S402339-86	9	<0.25%	C					

^D = Duplicate (Replicate)
C = Chrysotile

Below Action Level →

ND (Non-Detectable) - < 0.25%	44% of samples
0.25% - 1.0%	54% of samples
> 1.0% - 1.75%	2% of samples

Regulatory Compliance Considerations

Construction Activities:

Any soil or other substrate with a reported asbestos content of 0.25 percent or greater ($\geq 0.25\%$), would exceed the action level upon which compliance with the CARB *Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations* will be required. This ATCM was adopted into Section 93105 of Title 17, California Code of Regulations (CCR) in July 2002.

Surfacing Applications:

Any soil or other substrate with a reported asbestos content of 0.25 percent or greater ($\geq 0.25\%$), would be considered a “restricted material” and subject to regulation under the CARB *Asbestos Airborne Toxic Control Measure (ATCM) for Surfacing Applications*. This ATCM was adopted into Section 93106 of Title 17, California Code of Regulations (CCR) in November 2001.

Occupational Health and Safety:

Any soil or other substrate with a reported asbestos content of greater than 1.0 percent ($>1.0\%$) is, by definition, an “asbestos containing material (ACM)” pursuant to Section 1529, Subchapter 4: Construction Safety Orders of Title 8 CCR and,

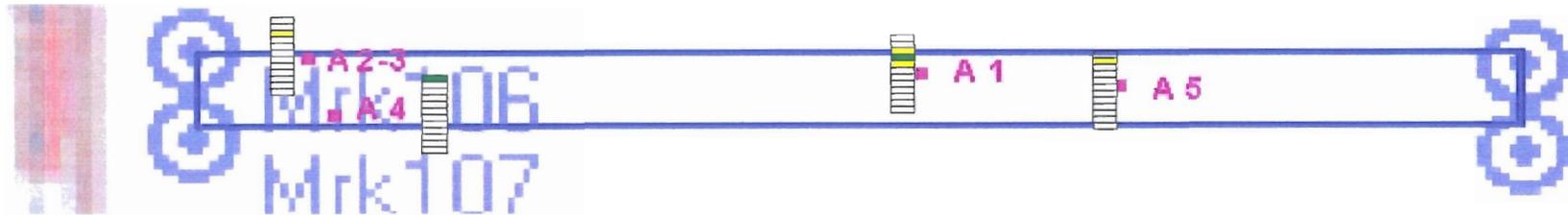
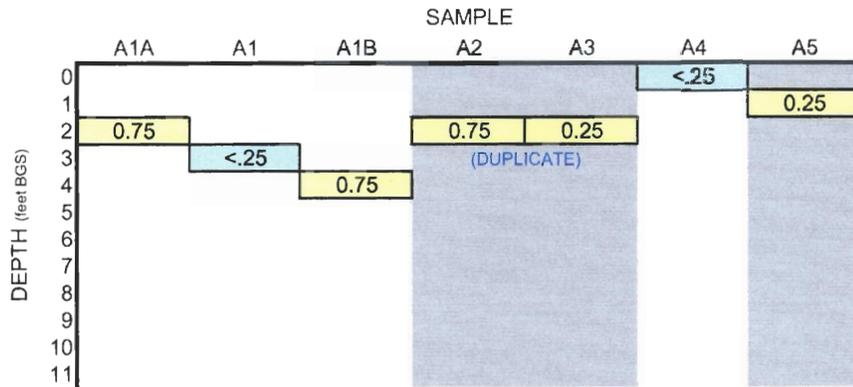
ARROYO PASAJERO / WEST SIDE DETENTION BASIN

NATURALLY OCCURRING ASBESTOS STUDY

NOA Sampling and Characterization, February 9-11, 2004

SAMPLE RESULTS

ARROYO PASAJERO CHANNEL BORROW SITE



- = Sample results less than 0.25%
- = Sample results between 0.25% and 1.0%
- = Sample results greater than, or equal to, 1.0%
- = Approximate borrow site boundary

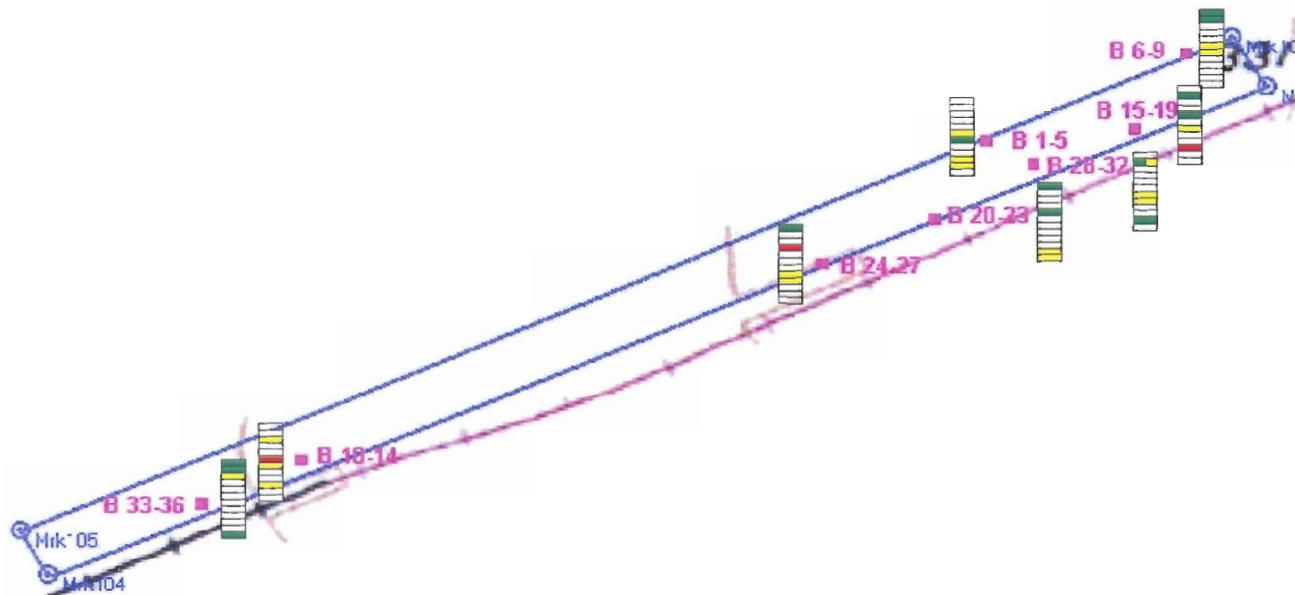
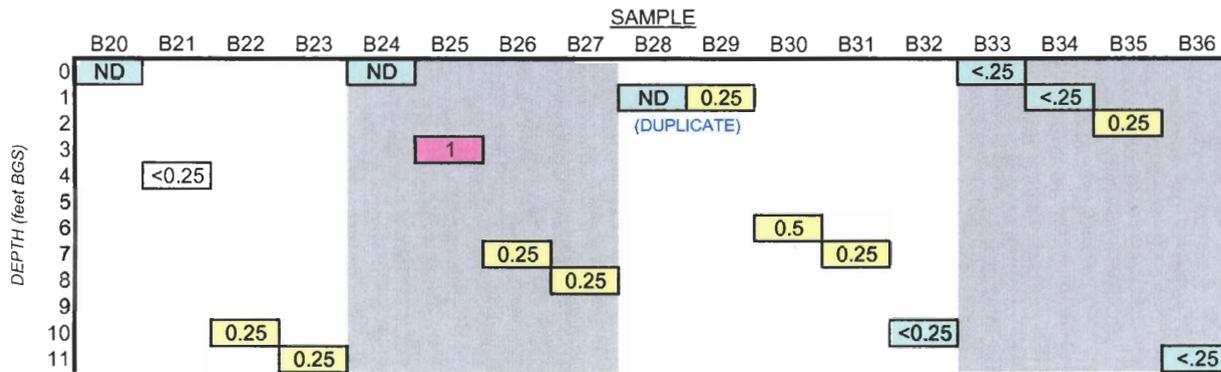
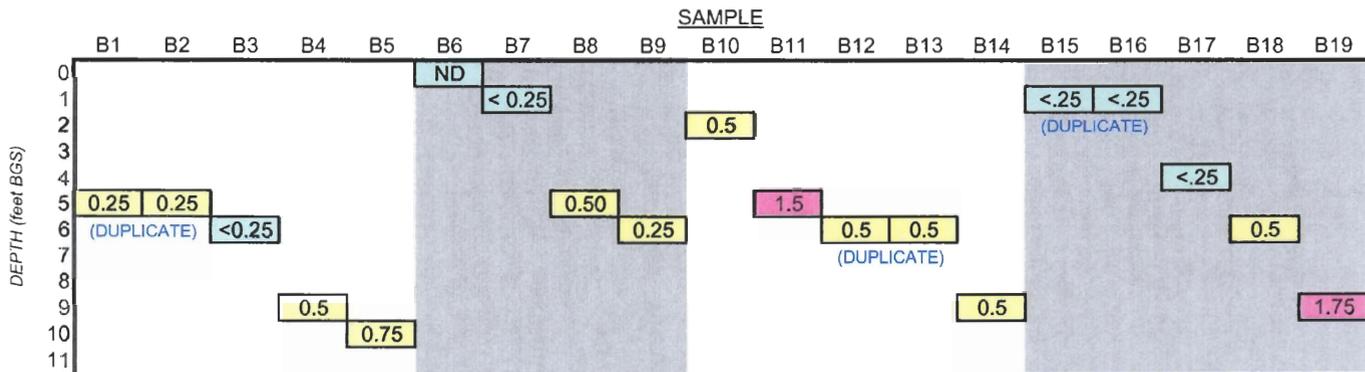
ARROYO PASAJERO / WEST SIDE DETENTION BASIN

NATURALLY OCCURRING ASBESTOS STUDY

NOA Sampling and Characterization, February 9-11, 2004

SAMPLE RESULTS

HURON WASTE WATER TREATMENT PLANT BORROW SITE



- = Sample results less than 0.25%
- = Sample results between 0.25% and 1.0%
- = Sample results greater than, or equal to, 1.0%
- = Approximate borrow site boundary

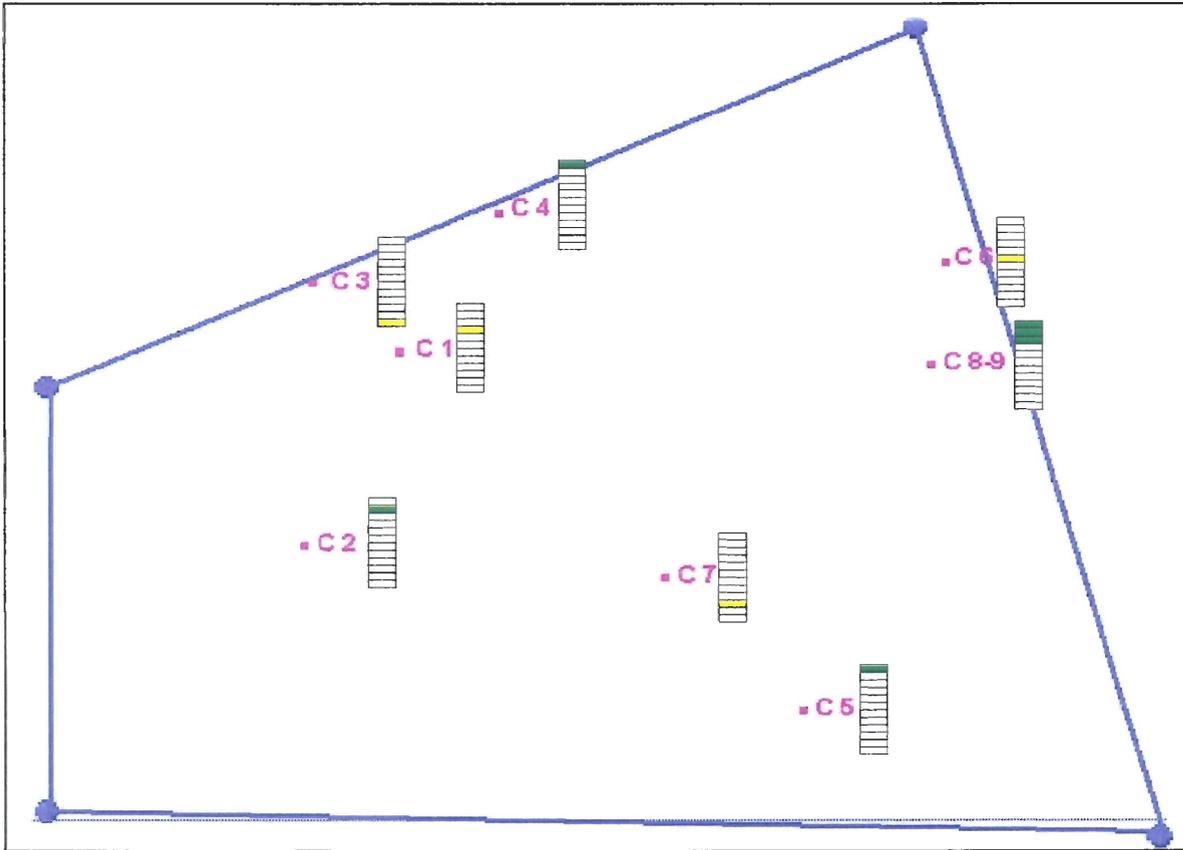
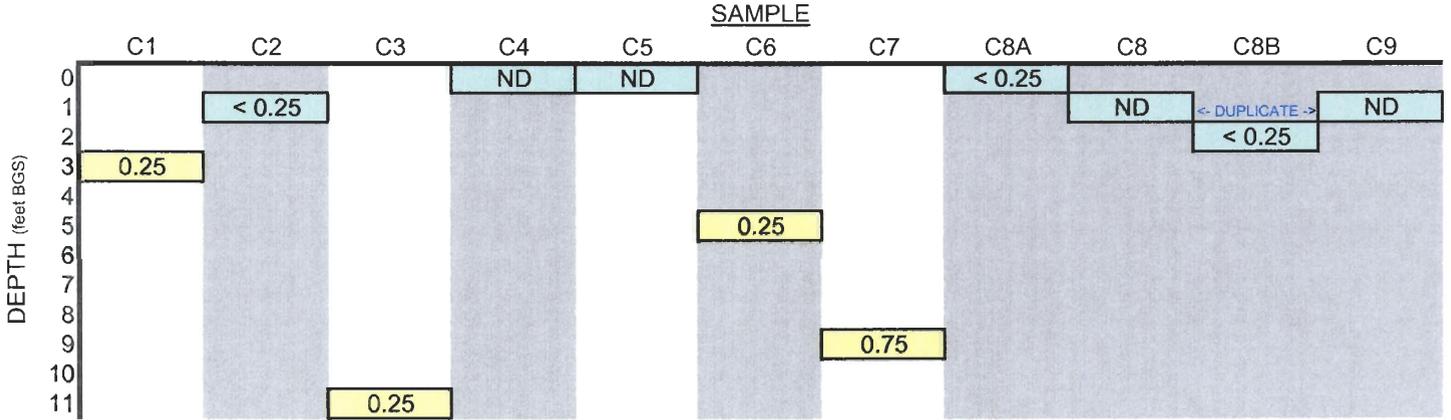
ARROYO PASAJERO / WEST SIDE DETENTION BASIN

NATURALLY OCCURRING ASBESTOS STUDY

NOA Sampling and Characterization, February 9-11, 2004

SAMPLE RESULTS

RAILROAD BORROW SITE



- = Sample results less than 0.25%
- = Sample results between 0.25% and 1.0%
- = Sample results greater than, or equal to, 1.0%
- = Approximate borrow site boundary

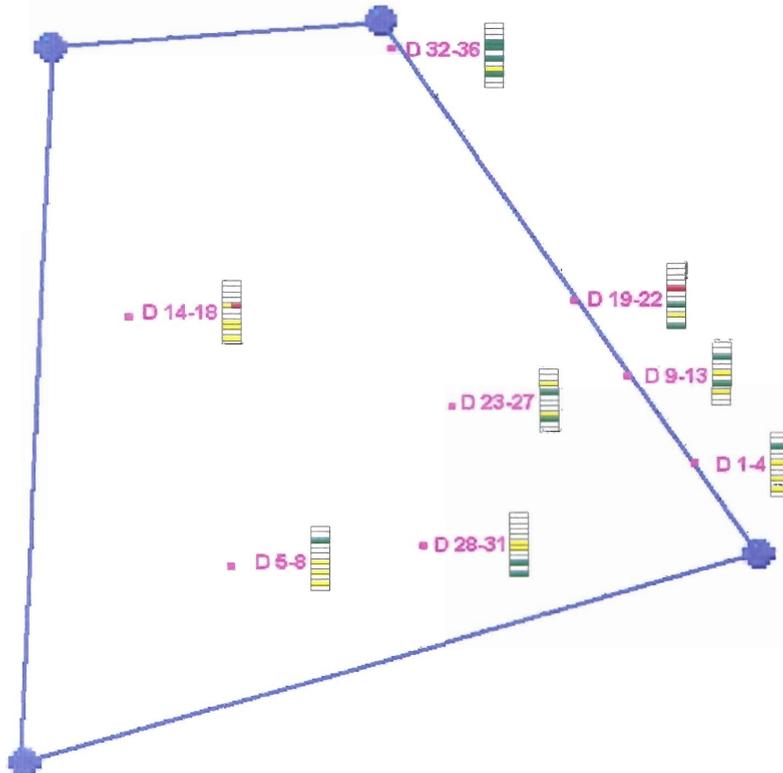
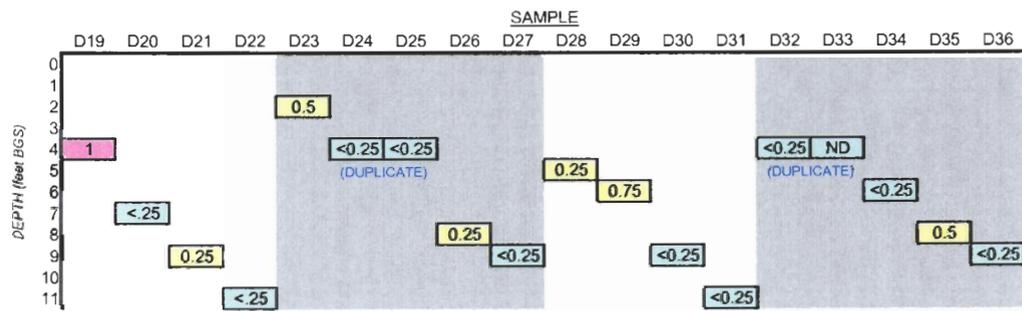
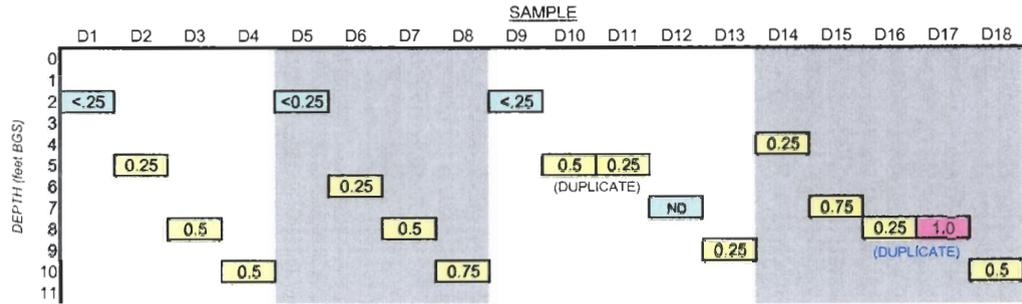
ARROYO PASAJERO / WEST SIDE DETENTION BASIN

NATURALLY OCCURRING ASBESTOS STUDY

NOA Sampling and Characterization, February 9-11, 2004

SAMPLE RESULTS

GALE AVENUE BORROW SITE



- = Sample results less than 0.25%
- = Sample results between 0.25% and 1.0%
- = Sample results greater than, or equal to, 1.0%
- = Approximate borrow site boundary

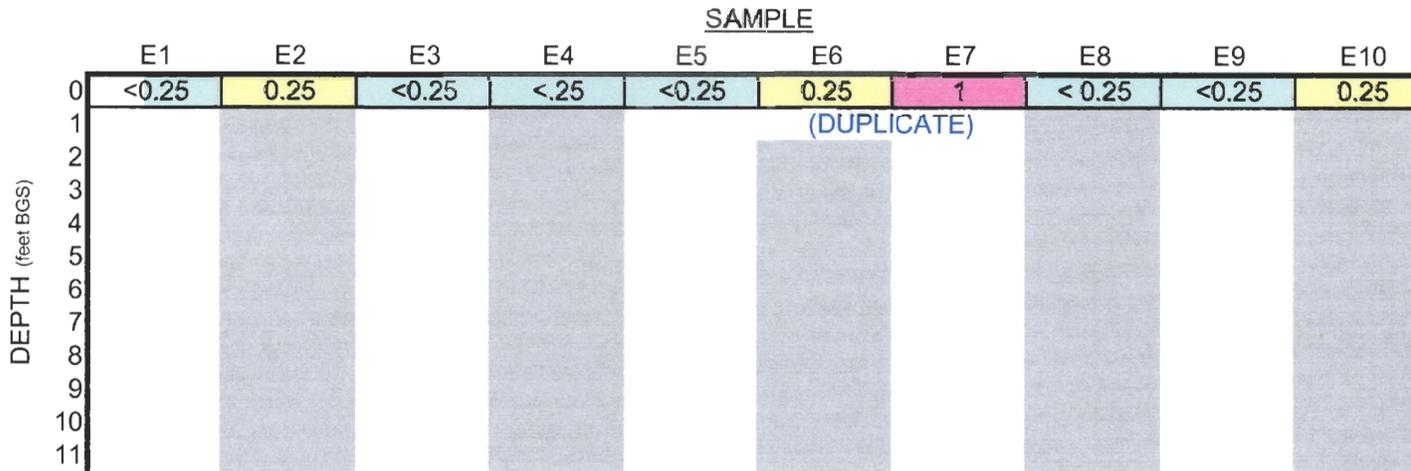
ARROYO PASAJERO / WEST SIDE DETENTION BASIN

NATURALLY OCCURRING ASBESTOS STUDY

NOA Sampling and Characterization, February 9-11, 2004

SAMPLE RESULTS

PROPOSED CONSTRUCTION SITE



-  = Sample results less than 0.25%
-  = Sample results between 0.25% and 1.0%
-  = Sample results greater than, or equal to, 1.0%

