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Los Alamos National Laboratory

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EES-1
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RE: P-1 spreadsheets

Number of pages including cover sheet: 5 **Date:** 9/9/97

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6926

P-1 Sampling Event, 6/23/97, Analyses Grouped By Sample Site

Location ID	Sample ID	Geomorphic Unit	Sediment Facies	Depth (in)	Depth (cm)	Pu-238 (pCi/g)	Pu-239,240 (pCi/g)	Am-241 (pCi/g)	Cs-137 (pCi/g)	Hg (mg/kg)	Main Target/Purpose	Expected Sample Bin	Assigned Sample Bin	Notes
Pueblo Downgrade of Acid Canyon														
PU-0109	04PU-97-0094	c1	channel	0-2	0-5	0.014	4.87				Pu inventory	1	1	at pedestal, fine gravel bar
PU-0113	04PU-97-0098	c1	channel	0-2	0-5	0.029	5.36				Pu inventory	1	1	coarse rocky channel w/ sand pockets
PU-0108	04PU-97-0093	c1	channel	0-2	0-5	-0.007	2.36				Pu inventory	1	1	sand bar
PU-0110	04PU-97-0095	c2	channel	19.5-31.5	50-80	0.026	4.8				Pu inventory	1 or 2	2	lower sands + gravels, at pedestal
PU-0111	04PU-97-0096	c2	channel	33.5-45.5	85-115	0.015	4.09				Pu inventory	1 or 2	2	lower sands + gravels, P1-61
PU-0114	04PU-97-0099	c2	overbank	0-4.5	0-12	0.079	8.11				Pu inventory	3	3	below Walnut Cyn, mostly fine sand
PU-0114	04PU-97-0100	c2	overbank	4.5-12	12-31	0.079	12.2				Pu inventory	3	3	fine and coarse sand – pumice
PU-0114	04PU-97-0101	c2	channel	12-27.5	30-70	0.099	15.5				Pu inventory	1 or 2	2	coarse gravel + coarse sand + fines
PU-0115	04PU-97-0102	c2	channel	14-27.5	35-70	0.043	8.27				Pu inventory	1 or 2	2	lower sands + gravels, upstream of Walnut Cyn
PU-0107	04PU-97-0092	c2	overbank	19.5-27.5	50-70	0.185	27.9				Pu inventory	5	5	fine, med, coarse sand; unit revised from "c2b" on basis of analyses
PU-0105	04PU-97-0088	c2	overbank	21.5-27	55-69	0.69	11.2				Pu inventory	5	3	fine sand; unit revised from "c2b" on basis of analyses
PU-0105	04PU-97-0089	c2	overbank	27-30.5	69-77	0.633	6.87				Pu inventory	5	3	coarse sand; unit revised from "c2b" on basis of analyses
PU-0105	04PU-97-0090	c2	overbank	30.5-34	77-86	0.046	10.5				Pu inventory	5	5	fine sand over medium sand; unit revised from "c2b"
PU-0105	04PU-97-0091	c2	overbank	34-37.5	86-95	0.061	15.8				Pu inventory	5	3	fine sand w/ litter (cigarette pack); unit revised from "c2b"
PU-0104	04PU-97-0085	c2	overbank	0-10.5	0-27	0.088	18.1				Pu inventory	3	3	P1-25, med sand, thin dark soil @ top
PU-0104	04PU-97-0086	c2	overbank	10.5-18	27-46	0.185	31.5				Pu inventory	3	3	P1-25, buried soil
PU-0104	04PU-97-0087	c2	overbank	18-33.5	46-85	0.992	39.0				Pu inventory	3	3	P1-25, orangish fine sand
PU-0106	04PU-97-0076	c2b (middle)	overbank	21.5-26.5	54-67	0.39	79.5	4.57	0.545	0.21	Pu inventory, colocation	5	5	layered coarse to fine sand
PU-0106	04PU-97-0077	c2b (middle)	overbank	26.5-31.5	67-80	0.274	92.9	1.37	0.172	0.12	Pu inventory, colocation	5	5	layered coarse to fine sand, buried soil at top
PU-0106	04PU-97-0080	c2b (middle)	overbank	31.5-34.5	80-88	0.045	13.7	0.672	0.001	0.15	Pu inventory, colocation	5	5	layered coarse to fine sand, fine sand
PU-0112	04PU-97-0097	f1	overbank	0-5.5	0-14	0.057	9.92				large area	67	6	med to fine sand + some coarse sand over buried soil
PU-0116	04PU-97-0104	f1	overbank	0-10	0-25	0.098	25.8				Pu inventory	67	6	P1-35, gully exposure
PU-0117	04PU-97-0106	f1	overbank	0-5	0-13	-0.011	0.83				lateral distribution	67	67	fine sand over buried soil
PU-0122	04PU-97-0109	f1	overbank	0-6	0-15	0.000	1.67				lateral distribution	67	67	sampling to base of coarse sand, mixture of coarse + fine sand
PU-0120	04PU-97-0103	f1	overbank	0-5	0-13	0.341	32.7				Pu inventory	67	6	P1-28, fine sand over buried soil
PU-0120	04PU-97-0105	f1	overbank	5-16.5	13-42	0.008	0.49				depth variations	67	67	P1-28, fine sand, burying oak tree
PU-0121	04PU-97-0107	f2	overbank	0-4	0-10	-0.017	0.215				large area	bkgd?	bkgd?	fine sand + some med sand over buried soil, dark soil at top
Acid Canyon														
PU-0119	04PU-97-0079	f1	overbank	0-3	0-8	0.045	33.7	0.433	0.556	0.06	Acid Cyn contribution			P1-10, upper fine sandy, dark
PU-0119	04PU-97-0084	f1	overbank	6.5-13	16-28	0.0	2.33	0.012	0.037	0.02	Acid Cyn contribution			P1-10, buried fine sand layer above buried soil
Pueblo Upstream of Acid Canyon														
PU-0118	04PU-97-0081	c2	overbank	0-8.5	0-21	0.004	0.057	0.133	0.246	0.32	Pueblo-up contribution			P1-44, upper fine to med. sand
PU-0118	04PU-97-0082	c2	overbank	8.5-14	21-35	0.016	0.044	0.364	0.455	0.49	Pueblo-up contribution			P1-44, lower fine sand
PU-0118	04PU-97-0083	c2	overbank	8.5-14	21-35	0.0	0.039	0.034	0.551	0.47	Pueblo-up contribution			QA duplicate of 04PU-97-0082

Bin 1 = c1 sands, downstream of Acid Canyon
Bin 2 = c2b basal channel sands + gravel (overlaps with bin 1)
Bin 3 = c2 overbank deposits (loamy sands, sandy loams, and loams)
Bin 4 = upper c2b overbank deposits (overlaps with bin 3) (sandy loam, sand, gravelly sand)
Bin 5 = lower c2b overbank deposits (sandy loam, loam)
Bin 6 = overbank deposits on floodplains (within range or lower than bin 1)

Reach P-1, Biased Analyses from 1st, 2nd, and 3rd Sampling Events, 1997

Location ID	Sample ID No	Sampling Event	Geomorphic Unit	Sediment Facies	Sample Depth (m)	Sample Depth (cm)		Pu-238 (pCi/g)	Pu-239,240 (pCi/g)	Am-241 (pci/g)	Cs-137 (pCi/g)	Hg (mg/kg)		Sample Bin		Pu 239/238 ratio	Median Particle Size	Lab Texture	Gravel	Coarse-Med Sand	Fine Sand	Silt	Clay		notes
Pueblo Canyon Upstream of Acid Canyon																									
PU-0016	04PU-96-0123	1	c2 (upstream)		0-8	0-20		0	0.075	0.01	0.13	0.07					ms	ls	6.3	54.7	19.26	23.57	3		P1-3
PU-0018	04PU-97-0081	3	c2 (upstream)	overbank	0-8.5	0-21		0.004	0.057	0.133	0.246	0.32				14									P1-44, upper fine to med. sand
PU-0018	97-0082 + 97-0083	3	c2 (upstream)	overbank	8.5-14	21-35		0.008	0.043	0.199	0.503	0.48				5									P1-44, lower fine sand
Acid Canyon																									
PU-0017	04PU-96-0124	1	c1 (Acid Cyn)	channel	0-3	0-8		0.059	12.593	0.64	0.14	0.07				213	cs	s	12.1	77.92	17.01	4.37	0.7		P1-11
PU-0019	04PU-97-0079	3	f1 (Acid Cyn)	overbank	0-3	0-8		0.065	13.7	0.433	0.556	0.06				306									P1-10, upper fine sands, dark
PU-0019	04PU-97-0084	3	f1 (Acid Cyn)	overbank	6.5-11	16-28		0.0	2.33	0.012	0.017	0.02													P1-10, buried fine sand layer above buried soil
Pueblo Canyon Downstream of Acid Canyon																									
PU-0019	04PU-96-0126	1	c1	channel	0-4	0-10		0.028	6.297	0.2	0.13	0.06		1		225	cs	gs	45.4	92.82	4.84	2.04	0.3		P1-24
PU-0109	04PU-97-0094	3	c1	channel	0-2	0-5		0.014	4.87					1		348									at pedestal, fine gravel bar
PU-0113	04PU-97-0098	3	c1	channel	0-2	0-5		0.029	5.36					1		185									coarse rocky channel w/ sand pockets
PU-0108	04PU-97-0093	3	c1	channel	0-2	0-5		0.017	2.36					1											sand bar
							av	0.02	4.7							253			48.4	92.8	4.8	2.0	0.3	
							s.d.	0.02	1.7							88									
							n	4	4																
PU-0110	04PU-97-0095	3	c2	channel	19.5-31.5	50-80		0.026	4.8					2		185									lower sands – gravels, at pedestal
PU-0111	04PU-97-0096	3	c2	channel	33.5-45.5	85-115		0.015	4.09					2		271									lower sands – gravels, P1-61
PU-0114	04PU-97-0101	3	c2	channel	12-27.5	30-70		0.099	15.5					2		157									coarse gravel + coarse sand + fines
PU-0115	04PU-97-0102	3	c2	channel	14-27.5	35-70		0.043	8					2		186									lower sands + gravels, upstream of Walnut Cyn
PU-0025	04PU-96-0166	2	c2b	channel	43-51	104-130		0.034	6					2		176	cs	gs	30.5	87.3	6.4	3.8	2.5		P1-29
PU-0025	04PU-96-0164	2	c2b	channel	51-63	130-160		0.039	4.8					2		123	vcs	gs	34.5	87.8	6	3	3.3		P1-29
PU-0021	04PU-96-0146	2	c2b	channel	32-36	81-91		0.15	44					2		293	cs	gls	42.8	73.9	9.5	10.5	6.1		P1-72
							av	0.06	12.9							190			42.6	83.0	7.3	5.8	6.0	
							s.d.	0.05	14.5							63			12.0	7.9	1.8	4.1	1.9	
							n	7	7																
PU-0014	04PU-96-0125	1	c2	overbank	0-3	0-8		0.055	11.783	0.82	0.34	0.09		3		214	ms	ls	6.6	63.09	19.82	13.59	1.5		P1-20
PU-0018	04PU-96-0149	2	c2	overbank	4-10	10-25		0.064	9.5					3		148	fs	ls	2	44.8	33.1	17	5.1		P1-20
PU-0018	04PU-96-0150	2	c2	overbank	10-16	25-41		0.072	16					3		222	fs	sl	1.2	43.1	24.2	26.6	6.1		P1-20
PU-0026	04PU-96-0157	2	c2	overbank	0-6	0-15		0.07	14					3		200	fs	sl	8.1	39.2	27.7	27.4	5.7		P1-57
PU-0026	04PU-96-0158	2	c2	overbank	6-13	15-33		0.096	20					3		208	crms	l	1	21.6	27.8	42.7	7.8		P1-57
PU-0026	04PU-96-0159	2	c2	overbank	13-20	33-51		0.086	19					3		221	fs	sl	13.2	48.5	22.3	22.3	7		P1-57
PU-0026	04PU-96-0160	2	c2	overbank	20-25	51-64		0.075	13					3		200	vfs	sl	2.2	33.4	24.6	35.9	6		P1-57
PU-0026	04PU-96-0161	2	c2	overbank	25-36	64-91		0.082	13					3		207	ms	ls	10.2	62.9	16.4	16.6	4.1		P1-57
PU-0026	04PU-96-0162	2	c2	overbank	36-41	91-104		0.059	14					3		237	vfs	l	8.2	29.3	24.9	40.4	9.4		P1-57
PU-0026	04PU-96-0163	2	c2	overbank	41-45	104-114		0.12	18					3		150	crms	l	5.7	30.1	17	42.7	10.2		P1-57
PU-0104	04PU-97-0085	3	c2	overbank	0-10.5	0-27		0.088	16.3					3		185									P1-25, mod. sand, thin dark soil @ top
PU-0104	04PU-97-0086	3	c2	overbank	10.5-18	27-46		0.185	31.5					3		170									P1-25, buried soil
PU-0104	04PU-97-0087	3	c2	overbank	18-33.5	46-85		0.192	35					3		200									P1-25, overbank fine sand
PU-0105	04PU-97-0088	3	c2	overbank	21.5-27	55-69		0.69	11.2					3		16									fine sand; unit revised from "c2b" on basis of analysis
PU-0105	04PU-97-0089	3	c2	overbank	27-30.5	69-77		0.033	6.87					3		208									coarse sand; unit revised from "c2b" on basis of analysis
PU-0105	04PU-97-0090	3	c2	overbank	30.5-34	77-86		0.046	10.5					3		228									fine sand over medium sand; unit revised from "c2b"
PU-0105	04PU-97-0091	3	c2	overbank	34-37.5	86-95		0.061	15.8					3		259									fine sand w/ litter (cigarette pack); unit revised from "c2b"
PU-0107	04PU-97-0092	3	c2	overbank	19.5-27.5	50-70		0.185	27.9					3		151									fine, med, coarse sand; unit revised from "c2b" on basis of analysis
PU-0114	04PU-97-0099	3	c2	overbank	0-4.5	0-12		0.029	8.11					3		280									below Walnut Cyn, mostly fine sand
PU-0114	04PU-97-0100	3	c2	overbank	4.5-12	12-31		0.079	12.2					3		154									fine and coarse sand + gravels

							av	0.12	16.7						193			5.9	41.1	35.8	28.7	6.3	
							std.	0.14	8.9						58			4.2	14.3	5.2	11.0	2.5	
							n	20	20						20									
PU-0025	04PU-96-0151	2	c2b	overbank	0-4	0-10		0.15	30					4	200	ms	g	7.3	74.8	16.3	5.5	3.3	P1-29
PU-0025	04PU-96-0152	2	c2b	overbank	4-10	10-25		0.062	15					4	242	vfs	sl	6.1	22.6	32.6	37	7.8	P1-29
PU-0025	04PU-96-0153	2	c2b	overbank	10-18	25-46		0.11	18					4	164	fs	sl	2.7	35.6	27.9	28.6	7.9	P1-29
PU-0020	04PU-96-0127	1	c2b	overbank	0-11	0-28		0.078	14.302	0.74	0.37	0.65		4	232	vfs	sl	0.3	27.32	32.99	35.8	3.9	P1-73A
PU-0020	04PU-96-0139	2	c2b	overbank	0-4	0-10		BDL	15					4		fs	sl	2.8	35.4	26.3	30.9	7.4	P1-73
PU-0020	04PU-96-0141	2	c2b	overbank	6-9	10-23		0.15	29					4	195	cosa	sl	0.1	9.7	34.2	49.6	6.4	P1-73
PU-0020	04PU-96-0142	2	c2b	overbank	9-16	23-41		2.15	22					4	167	cs	gs	35.5	80.3	6.5	9.2	4.1	P1-73
PU-0020	04PU-96-0143	2	c2b	overbank	16-21	41-53		0.34	55					4	162	vfs	sl	4.6	29.3	30	32.4	8.3	P1-73
							av	0.35	25.6						194			7.5	38.4	25.8	28.6	6.1	
							std.	0.69	13.3						33			11.6	25.6	9.7	14.6	2.1	
							n	7	8						17									
PU-0025	04PU-96-0154	2	c2b	overbank	18-26	46-66		0.67	86					5	121	fs	sl	10.9	46.2	25	20.9	7.9	P1-29
PU-0025	04PU-96-0155	2	c2b	overbank	26-30	66-76		1.3	170					5	132	ms	sl	13	55.4	21.3	18.4	7.1	P1-29
PU-0025	04PU-96-0156	2	c2b	overbank	30-36	76-91		1	240					5	240	fs	sl	16.4	37.3	22.5	29.7	10.4	P1-29
PU-0025	04PU-96-0165	2	c2b	overbank	36-41	91-104		0.067	26					5	299	ms	sl	19.6	52	18.8	23.2	6.1	P1-29
PU-0020	04PU-96-0144	2	c2b	overbank	21-25	53-66		0.84	150					5	179	vfs	l	2.9	30	21.9	37.1	18.1	P1-73
PU-0021	04PU-96-0128	1	c2b	overbank	25-30	66-76		1.928	488.31	10.67	0.37	0.49	*	5	251	fs	sl	3.5	42.89	30.53	20.39	6.2	P1-73B
PU-0021	04PU-96-0145	2	c2b	overbank	25-30	64-76		0.12	23					5	208	vfs	l	3.7	35.2	16.3	37.1	18.4	P1-73
PU-0106	04PU-97-0076	3	c2b	overbank	21.5-26.5	54-67		0.29	79.5	4.37	0.545	0.21		5	274								Layered coarse to fine sand
PU-0106	04PU-97-0077	3	c2b	overbank	26.5-31.5	67-80		0.274	92.9	1.37	0.172	0.12		5	339								layered coarse to fine sand, buried soil at top
PU-0106	04PU-97-0080	3	c2b	overbank	31.5-34.5	80-88		0.045	13.7	0.072	0.001	0.15		5	304								layered coarse to fine sand, fine sand
							av	0.65	156.5						195			10.0	42.4	22.3	26.7	8.6	
							std.	0.62	143.2						86			6.8	8.8	4.6	8.0	2.3	
							n	10	10						10									
PU-0022	04PU-96-0129	1	f1	overbank	0-2	0-5		0.014	3.625	0.11	1.53	0.07		6	261	fs	ls	10.0	48.55	27.19	24.13	2.3	P1-28
PU-0112	04PU-97-0097	3	f1	overbank	0-3.5	0-14		0.087	9.92					6	268								sand to fine sand + some coarse sand over buried soil
PU-0116	04PU-97-0104	3	f1	overbank	0-10	0-25		0.094	23.3					6	243								P1-35, gully exposure
PU-0117	04PU-97-0106	3	f1	overbank	0-5	0-13		-0.013	0.81					67									fine sand over buried soil
PU-0127	04PU-97-0109	3	f1	overbank	0-6	0-15		0.01	1.67					67	167								sampling to base of coarse sand, mixture of coarse + fine sand
PU-0120	04PU-97-0103	3	f1	overbank	0-5	0-13		0.141	27.7					6	232								P1-21, fine sand over buried soil
PU-0120	04PU-97-0105	3	f1	overbank	5-16.5	13-42		0.001	0.49					67	490								P1-21, fine sand, burying oak tree
							av	0.04	10.4						336			10.6	46.6	27.2	24.2	2.3	
							std.	0.06	12.8						108								
							n	7	7						15								
PU-0121	04PU-97-0107	3	f2	overbank	0-4	0-10		-0.037	0.255					blgd7									fine sand + some med sand over buried soil, dark soil at top
Notes																								
BDL = below detection limit																								
Percentages of sand, silt, & clay size fractions calculated from < 2mm fraction.																								
Lab Texture: l=loam; ls=loamy sand; sl=sandy loam; s=sand; gs=gravelly sand; sls=gravelly loamy sand (g indicates >20% gravel)																								
Median Particle Size: silt=silt<2mm fraction (fraction submitted for chemical analysis); cosa=coarse to medium silt; cs=coarse sand; fs=fine sand; ms=medium sand; vcs=very coarse sand; vfs=very fine sand																								
* Average of 2 analyses (Pu-238 = 1.777 * 2.078, Pu-239,240 = 507.01 & 474.61																								
Sampling event 1 = August 8 2232, event 2 = 8 2832																								
Bin 1 = c1 sands, downstream of Acid Canyon																								
Bin 2 = c2 + c2b basal channel sands + gravels (overlaps with bin 1)																								
Bin 3 = c2 overbank deposits (loamy sands, sandy loams, and loams)																								
Bin 4 = upper c2b overbank deposits (overlaps with bin 3) (sandy loam, sand, gravelly sand)																								
Bin 5 = lower c2b overbank deposits (sandy loam, loam)																								
Bin 6 = overbank deposits on floodplains (within range or lower than bin 3)																								

P-1 Inventory, 9/9/97 Estimate (using revised Pu concentrations from 3rd sampling event, and slightly revised estimates of thicknesses and sizes of geomorphic units)

Unit	Location	Section	Area (m2)	Estimated Average Thickness (m)	Estimated Thickness Range (m)	Estimated Volume (m3)	General Sediment Texture	Est. Gravel (%)	Estimated Portion Non-gravel	Density (g/cm3)	notes on concentrations	Estimated Average Concentration Pu-239,240 (pCi/g)	Estimated Variation in Pu-239,240 Concentration (1 s.d.)	Estimated Inventory Pu-239,240 (uCi)	Estimated Percent of Total
Pueblo Canyon: Acid Canyon to Walnut Canyon															
c1	P-1 West	0-max	885	0.5	0.2-0.8	442	sand + gr.	50	0.5	1.25	bin 1	4.7	35%	1300	4%
c2	P-1 West	0-0.6	801	0.57	± 0.22	457	fine-to-coarse	10	0.9	1.25	bin 3	16.7	50%	8578	25%
		0.6-1.1	801	0.5	0.2-0.8	401	sand + gr.	50	0.5	1.25	bin 2	12.5	115%	3129	9%
c2b	P-1 West	0-0.5	76	0.5	0.3-0.7	38	fine-to-coarse	7	0.93	1.25	bin 4	25.6	50%	1131	3%
		0.5-0.8	76	0.3	0.2-0.4	23	fine-to-coarse	13	0.87	1.25	bin 5	136.5	105%	3385	10%
		0.9-1.6	76	0.5	0.2-0.8	38	sand + gr.	35	0.65	1.25	bin 2	12.5	115%	386	1%
f1	P-1 West	0-max	1411	0.2	± 0.17	282	fines	0	1	1.25	assumed bin 3	16.7	50%	5890	17%
f2	P-1 West	0-max	463	0.01	0-0.05	5	fines	0	1	1.25	sample 04PU-97-0107	0.2	?	1	0%
f11/A-27	P-1 West	0-0.3	414	0.3		124	fine-to-coarse	10	0.9	1.25	assumed bin 3	16.7	50%	2336	7%
		0-3-0.55	414	0.25		104	sand + gr.	50	0.5	1.25	assumed bin 2	12.5	115%	809	2%
f11/c2b?	P-1 West	0-0.25	214	0.25		53	fine-to-coarse	7	0.93	1.25	assumed bin 4	25.6	50%	1590	5%
		0.25-0.4	214	0.15		32	fine-to-coarse	13	0.87	1.25	assumed bin 5	136.5	105%	4758	14%
		0.4-0.75	214	0.35		75	sand + gr.	35	0.65	1.25	assumed bin 2	12.5	115%	760	2%
											Total Estimated Inventory (uCi)			34051	
											Length (km)			8.30	
											Est. Inventory (mCi/km)			114	
											Potential Percent Buried				30%
Pueblo Canyon: Walnut Canyon to Pedestal															
c1	P-1 East	0-max	530	0.5	0.2-0.8	265	sand + gr.	50	0.5	1.25	bin 1	4.7	35%	779	5%
c2	P-1 East	0-0.6	545	0.57	± 0.22	311	fine-to-coarse	10	0.9	1.25	bin 3	16.7	50%	5834	37%
		0.6-1.1	545	0.5	0.2-0.8	272	sand + gr.	50	0.5	1.25	bin 2	12.5	115%	2128	13%
f1	P-1 East	0-max	885	0.2	± 0.17	177	fines	0	1	1.25	assumed bin 3	16.7	50%	3688	23%
f10/c27	P-1 East	0-0.3	466	0.3		140	fine-to-coarse	10	0.9	1.25	assumed bin 3	16.7	50%	2628	16%
		0.3-0.55	466	0.25		117	sand + gr.	50	0.5	1.25	bin 2	12.5	115%	911	6%
											Total Estimated Inventory (uCi)			15947	
											Length (km)			0.19	
											Est. Inventory (mCi/km)			84	
											Potential Percent Buried				22%
Pueblo Canyon: Acid Canyon to Pedestal															
c1	P-1 total	0-max	1415	0.5	0.2-0.8	707	sand + gr.	50	0.5	1.25	bin 1	4.7	35%	2078	6%
c2	P-1 total	0-0.6	1346	0.57	± 0.22	767	fine-to-coarse	10	0.9	1.25	bin 3	16.7	50%	14414	29%
		0.6-1.1	1346	0.5	0.2-0.8	673	sand + gr.	50	0.5	1.25	bin 2	12.5	115%	5258	11%
c2b	P-1 total	0-0.5	76	0.5	0.3-0.7	38	fine-to-coarse	7	0.93	1.25	bin 4	25.6	50%	1131	2%
		0.5-0.8	76	0.3	0.2-0.4	23	fine-to-coarse	13	0.87	1.25	bin 5	136.5	105%	3385	7%
		0.9-1.6	76	0.5	0.2-0.8	38	sand + gr.	35	0.65	1.25	bin 2	12.5	115%	386	1%
f1	P-1 total	0-max	2294	0.2	± 0.17	459	fines	0	1	1.25	assumed bin 3	16.7	50%	9579	19%
f2	P-1 total	0-max	463	0.01	0-0.05	5	fines	0	1	1.25	sample 04PU-97-0107	0.2	?	1	0%
f11/c27	P-1 total	0-0.3	881	0.3		264	fine-to-coarse	10	0.9	1.25	assumed bin 3	16.7	50%	4964	10%
		0-3-0.55	881	0.25		220	sand + gr.	50	0.5	1.25	assumed bin 2	12.5	115%	1720	3%
f11/c2b?	P-1 total	0-0.25	214	0.25		53	fine-to-coarse	7	0.93	1.25	assumed bin 4	25.6	50%	1590	3%
		0.25-0.4	214	0.15		32	fine-to-coarse	13	0.87	1.25	assumed bin 5	136.5	105%	4758	10%
		0.4-0.75	214	0.35		75	sand + gr.	35	0.65	1.25	assumed bin 2	12.5	115%	760	2%
											Total Estimated Inventory (uCi)			50023	
											Length (km)			0.49	
											Est. Inventory (mCi/km)			102	
											Potential Percent Buried				28%

Inventory (uCi) = concentration (pCi/g) * density (g/cm3) * portion non-gravel * volume (m3)

Estimates of area of c2 buried under fill from dirt road and sewer line are very approximate, and are included only to indicate potential importance of buried inventory

Thickness is assigned 1/2 value of thickness of non-buried units to incorporate inferred conservative overestimate of possible area.

Thickness range is expressed as ± area standard deviations of available field measurements.

Area of f1 may be overestimated, as it is based on conservative mapping to avoid underestimating contaminated area.

Reach contains many large boulders, and these are not accounted for in inventory; correcting for these could conceivably reduce inventory by 20% or more.