ALL INDIAN PUEBLO COUNCIL, INC.
PUEBLO OFFICE OF ENVIRONMENTAL PROTECTION
123 4th Street SW, Rm. 141 • Post Office Box 400 • Albuquerque, New Mexico 87103 • (505) 884-0480 • FAX (505) 883-7641
http://www.aipc-poep.com

December 10, 2001

Leandro Garcia, Tribal Programs Administrator
Santo Domingo Tribe
PO Box 99
Santo Domingo Pueblo, NM 87052

Subject: Sampling of residential wells and soil sampling in the railroad dumpsite area.

Dear Leandro,

In reference to the Site Inspection work conducted at the Abandoned Facility Site and to be conducted at the Railroad Dump Site, AIPC-POEP is planning to sample the ground water from the wells located at the residences of Dean Owen, Mr. And Mrs. Aguilar, and Terra Benavidez. This work will be performed by the AIPC-POEP Superfund Program through direct coordination with you. The AIPC-POEP Superfund Program is funded by the U.S. EPA and coordinated by their Region 6 office in Dallas, Texas.

The Superfund Program refers to a specific program specializing in the investigation of abandoned facilities and dumpsites which could pose a threat to human health and the environment if the historical use and disposal of chemical products caused environmental contamination. During a site inspection, in this case the collection of groundwater and soil samples, the Superfund laboratories will analyze the samples for a specific list of chemicals. I have attached the list of these compounds and analytes. As you can see the list does not include bacteria contaminants such as E.Coli. We talked about this during our visit with the residents on November 15, 2001.

We also talked about collecting the water samples at these residences during the week of December 17, 2001. Since this is not possible, we need to re-schedule the sampling activities. Can you please let me know a timeframe (some possible dates) that will be convenient for you and the residences. I will then coordinate the activities with the EPA and request the analytical space at the laboratories. Thank you and we look forward to working together in these upcoming sampling activities.

Sincerely,

Linda S. Butler dH
Environmental Scientist
Encl:
Cc: Syed Rizvi, Lisa Maiola

998105

1.0 VOLATILES TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

			Quantitation Limits			
	Volatiles	CAS Number	Water µg/L	Low Soil µg/Kg	Med. Soil µg/Kg	On Column (ng)
1.	*Dichlorodifluoromethane*	*75-71-8*	*10*	*10*	*1200*	*(50)*
2.	Chloromethane	74-87-3	10	10	1200	(50)
3.	Vinyl Chloride	75-01-4	10	10	1200	(50)
4.	Bromomethane	74-83-9	10	10	1200	(50)
5.	Chloroethane	75-00-3	10	10	1200	(50)
6.	*Trichlorofluoromethane*	*75-69-4*	*10*	*10*	*1200*	*(50)*
7.	1,1-Dichloroethene	75-35-4	10	10	1200	(50)
8.	*1,1,2-Trichloro-1,2,2-trifluoroethane*	*76-13-1*	*10*	*10*	*1200*	*(50)*
9.	Acetone	67-64-1	10	10	1200	(50)
10.	Carbon Disulfide	75-15-0	10	10	1200	(50)
11.	*Methyl Acetate*	*79-20-9*	*10*	*10*	*1200*	*(50)*
12.	Methylene Chloride	75-09-2	10	10	1200	(50)
13.	*trans-1,2-Dichloroethene*	*156-60-5*	10	10	1200	(50)
14.	*Methyl tert-Butyl Ether*	*1634-04-4*	*10*	*10*	*1200*	*(50)*
15.	1,1-Dichloroethane	75-34-3	10	10	1200	(50)
16.	*cis-1,2-Dichloroethene*	*156-59-2*	10	10	1200	(50)
17.	2-Butanone	78-93-3	10	10	1200	(50)
18.	Chloroform	67-66-3	10	10	1200	(50)
19.	1,1,1-Trichloroethane	71-55-6	10	10	1200	(50)
20.	*Cyclohexane*	*110-82-7*	*10*	*10*	*1200*	*(50)*
21.	Carbon Tetrachloride	56-23-5	10	10	1200	(50)
22.	Benzene	71-43-2	10	10	1200	(50)
23.	1,2-Dichloroethane	107-06-2	10	10	1200	(50)
24.	Trichloroethene	79-01-6	10	10	1200	(50)
25.	*Methylcyclohexane*	*108-87-2*	*10*	*10*	*1200*	*(50)*
26.	1,2-Dichloropropane	78-87-5	10	10	1200	(50)
27.	Bromodichloromethane	75-27-4	10	10	1200	(50)
28.	cis-1,3-Dichloropropene	10061-01-5	10	10	1200	(50)
29.	4-Methyl-2-pentanone	108-10-1	10	10	1200	(50)
30.	Toluene	108-88-3	10	10	1200	(50)
31.	trans-1,3-Dichloropropene	10061-02-6	10	10	1200	(50)
32.	1,1,2-Trichloroethane	79-00-5	10	10	1200	(50)
33.	Tetrachloroethene	127-18-4	10	10	1200	(50)
34.	2-Hexanone	591-78-6	10	10	1200	(50)
35.	Dibromochloromethane	124-48-1	10	10	1200	(50)

1.0 VOLATILES TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (Con't)

	Volatiles	CAS Number	Quantitation Limits Water µg/L	Low Soil µg/Kg	Med. Soil µg/Kg	On Column (ng)
36.	*1,2-Dibromoethane*	*106-93-4*	*10*	*10*	*1200*	*(50)*
37.	Chlorobenzene	108-90-7	10	10	1200	(50)
38.	Ethylbenzene	100-41-4	10	10	1200	(50)
39.	Xylenes (total)	1330-20-7	10	10	1200	(50)
40.	Styrene	100-42-5	10	10	1200	(50)
41.	Bromoform	75-25-2	10	10	1200	(50)
42.	*Isopropylbenzene*	*98-82-8*	*10*	*10*	*1200*	*(50)*
43.	1,1,2,2-Tetrachloroethane	79-34-5	10	10	1200	(50)
44.	*1,3-Dichlorobenzene*	*541-73-1*	*10*	*10*	*1200*	*(50)*
45.	*1,4-Dichlorobenzene*	*106-46-7*	*10*	*10*	*1200*	*(50)*
46.	*1,2-Dichlorobenzene*	*95-50-1*	*10*	*10*	*1200*	*(50)*
47.	*1,2-Dibromo-3-chloropropane*	*96-12-8*	*10*	*10*	*1200*	*(50)*
48.	*1,2,4-Trichlorobenzene*	*120-82-1*	*10*	*10*	*1200*	*(50)*

2.0 SEMIVOLATILES TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS

	Semivolatiles	CAS Number	Quantitation Limits Water µg/L	Low Soil µg/Kg	Med. Soil µg/Kg	On Column (ng)
49.	*Benzaldehyde*	*100-52-7*	*10*	*330*	*10000*	*(20)*
50.	Phenol	108-95-2	10	330	10000	(20)
51.	bis-(2-Chloroethyl) ether	111-44-4	10	330	10000	(20)
52.	2-Chlorophenol	95-57-8	10	330	10000	(20)
53.	2-Methylphenol	95-48-7	10	330	10000	(20)
54.	2,2'-oxybis(1-Chloropropane)[1]	108-60-1	10	330	10000	(20)
55.	*Acetophenone*	*98-86-2*	*10*	*330*	*10000*	*(20)*
56.	4-Methylphenol	106-44-5	10	330	10000	(20)
57.	N-Nitroso-di-n propylamine	621-64-7	10	330	10000	(20)
58.	Hexachloroethane	67-72-1	10	330	10000	(20)
59.	Nitrobenzene	98-95-3	10	330	10000	(20)
60.	Isophorone	78-59-1	10	330	10000	(20)
61.	2-Nitrophenol	88-75-5	10	330	10000	(20)
62.	2,4-Dimethylphenol	105-67-9	10	330	10000	(20)
63.	bis(2-Chloroethoxy) methane	111-91-1	10	330	10000	(20)
64.	2,4-Dichlorophenol	120-83-2	10	330	10000	(20)
65.	Naphthalene	91-20-3	10	330	10000	(20)
66.	4-Chloroaniline	106-47-8	10	330	10000	(20)
67.	Hexachlorobutadiene	87-68-3	10	330	10000	(20)
68.	*Caprolactam*	*105-60-2*	*10*	*330*	*10000*	*(20)*
69.	4-Chloro-3-methylphenol	59-50-7	10	330	10000	(20)
70.	2-Methylnaphthalene	91-57-6	10	330	10000	(20)
71.	Hexachlorocyclo-pentadiene	77-47-4	10	330	10000	(20)
72.	2,4,6-Trichlorophenol	88-06-2	10	330	10000	(20)
73.	2,4,5-Trichlorophenol	95-95-4	25	830	25000	(50)

[1] Previously known by the name bis(2-Chloroisopropyl)ether.

104.	Benzo(a)anthracene	56-55-3	10	330	10000	(20)
105.	Chrysene	218-01-9	10	330	10000	(20)

2.0 SEMIVOLATILES TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (Con't)

	Semivolatiles	CAS Number	Quantitation Limit Water µg/L	Low Soil µg/Kg	Med. Soil µg/Kg	On Column (ng)
74.	*1,1'-Biphenyl*	*92-52-4*	*10*	*330*	*10000*	*(20)*
75.	2-Chloronaphthalene	91-58-7	10	330	10000	(20)
76.	2-Nitroaniline	88-74-4	25	830	25000	(50)
77.	Dimethylphthalate	131-11-3	10	330	10000	(20)
78.	2,6-Dinitrotoluene	606-20-2	10	330	10000	(20)
79.	Acenaphthylene	208-96-8	10	330	10000	(20)
80.	3-Nitroaniline	99-09-2	25	830	25000	(50)
81.	Acenaphthene	83-32-9	10	330	10000	(20)
82.	2,4-Dinitrophenol	51-28-5	25	830	25000	(50)
83.	4-Nitrophenol	100-02-7	25	830	25000	(50)
84.	Dibenzofuran	132-64-9	10	330	10000	(20)
85.	2,4-Dinitrotoluene	121-14-2	10	330	10000	(20)
86.	Diethylphthalate	84-66-2	10	330	10000	(20)
87.	Fluorene	86-73-7	10	330	10000	(20)
88.	4-Chlorophenyl-phenyl ether	7005-72-3	10	330	10000	(20)
89.	4-Nitroaniline	100-01-6	25	830	25000	(50)
90.	4,6-Dinitro-2-methylphenol	534-52-1	25	830	25000	(50)
91.	N-Nitroso diphenylamine	86-30-6	10	330	10000	(20)
92.	4-Bromophenyl-phenylether	101-55-3	10	330	10000	(20)
93.	Hexachlorobenzene	118-74-1	10	330	10000	(20)
94.	*Atrazine*	*1912-24-9*	*10*	*330*	*10000*	*(20)*
95.	Pentachlorophenol	87-86-5	25	830	25000	(50)
96.	Phenanthrene	85-01-8	10	330	10000	(20)
97.	Anthracene	120-12-7	10	330	10000	(20)
98.	Carbazole	86-74-8	10	330	10000	(20)
99.	Di-n-butylphthalate	84-74-2	10	330	10000	(20)
100.	Fluoranthene	206-44-0	10	330	10000	(20)
101.	Pyrene	129-00-0	10	330	10000	(20)
102.	Butylbenzylphthalate	85-68-7	10	330	10000	(20)
103.	3,3'-Dichlorobenzidine	91-94-1	10	330	10000	(20)
104.	Benzo(a)anthracene	56-55-3	10	330	10000	(20)
105.	Chrysene	218-01-9	10	330	10000	(20)

2.0 SEMIVOLATILES TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (Con't)

			Quantitation Limits			
	Semivolatiles	CAS Number	Water µg/L	Low Soil µg/Kg	Med. Soil µg/Kg	On Column (ng)
106.	bis(2-Ethylhexyl) phthalate	117-81-7	10	330	10000	(20)
107.	Di-n-octylphthalate	117-84-0	10	330	10000	(20)
108.	Benzo(b)fluoranthene	205-99-2	10	330	10000	(20)
109.	Benzo(k)fluoranthene	207-08-9	10	330	10000	(20)
110.	Benzo(a)pyrene	50-32-8	10	330	10000	(20)
111.	Indeno(1,2,3-cd)-pyrene	193-39-5	10	330	10000	(20)
112.	Dibenzo(a,h)-anthracene	53-70-3	10	330	10000	(20)
113.	Benzo(g,h,i)perylene	191-24-2	10	330	10000	(20)

3.0 PESTICIDES/AROCLORS TARGET COMPOUND LIST AND CONTRACT REQUIRED QUANTITATION LIMITS[2]

			Quantitation Limits		
	Pesticides/Aroclors	CAS Number	Water µg/L	Soil µg/Kg	On Column (pg)
114.	alpha-BHC	319-84-6	0.050	1.7	5
115.	beta-BHC	319-85-7	0.050	1.7	5
116.	delta-BHC	319-86-8	0.050	1.7	5
117.	gamma-BHC (Lindane)	58-89-9	0.050	1.7	5
118.	Heptachlor	76-44-8	0.050	1.7	5
119.	Aldrin	309-00-2	0.050	1.7	5
120.	Heptachlor epoxide[3]	1024-57-3	0.050	1.7	5
121.	Endosulfan I	959-98-8	0.050	1.7	5
122.	Dieldrin	60-57-1	0.10	3.3	10
123.	4,4'-DDE	72-55-9	0.10	3.3	10
124.	Endrin	72-20-8	0.10	3.3	10
125.	Endosulfan II	33213-65-9	0.10	3.3	10
126.	4,4'-DDD	72-54-8	0.10	3.3	10
127.	Endosulfan sulfate	1031-07-8	0.10	3.3	10
128.	4,4'-DDT	50-29-3	0.10	3.3	10
129.	Methoxychlor	72-43-5	0.50	17	50
130.	Endrin ketone	53494-70-5	0.10	3.3	10
131.	Endrin aldehyde	7421-93-4	0.10	3.3	10
132.	alpha-Chlordane	5103-71-9	0.050	1.7	5
133.	gamma-Chlordane	5103-74-2	0.050	1.7	5
134.	Toxaphene	8001-35-2	5.0	170	500
135.	Aroclor-1016	12674-11-2	1.0	33	100
136.	Aroclor-1221	11104-28-2	2.0	67	200
137.	Aroclor-1232	11141-16-5	1.0	33	100
138.	Aroclor-1242	53469-21-9	1.0	33	100
139.	Aroclor-1248	12672-29-6	1.0	33	100
140.	Aroclor-1254	11097-69-1	1.0	33	100
141.	Aroclor-1260	11096-82-5	1.0	33	100

[2]There is no differentiation between the preparation of low and medium soil samples in this method for the analysis of pesticides/Aroclors.

[3]Only the exo-epoxy isomer (isomer B) of heptachlor epoxide is reported on the data reporting forms (Exhibit B).

1.0 INORGANIC TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQLs)

Analyte	CAS Number	ICP-AES CRQL for Water[1,2,3,4] (µg/L)	ICP-AES CRQL for Soil[1,2,3,4,5] (mg/kg)	ICP-MS CRQL for Water[1,2,4] (µg/L)
Aluminum	7429-90-5	200	40	30
Antimony	7440-36-0	60	12	2
Arsenic	7440-38-2	15	3	1
Barium	7440-39-3	200	40	10
Beryllium	7440-41-7	5	1	1
Cadmium	7440-43-9	5	1	1
Calcium	7440-70-2	5000	1000	--
Chromium	7440-47-3	10	2	2
Cobalt	7440-48-4	50	10	0.5
Copper	7440-50-8	25	5	2
Iron	7439-89-6	100	20	--
Lead	7439-92-1	10	2	1
Magnesium	7439-95-4	5000	1000	--
Manganese	7439-96-5	15	3	0.5
Mercury	7439-97-6	0.2	0.1	--
Nickel	7440-02-0	40	8	1
Potassium	7440-09-7	5000	1000	--
Selenium	7782-49-2	35	7	5
Silver	7440-22-4	10	2	1
Sodium	7440-23-5	5000	1000	--
Thallium	7440-28-0	25	5	1
Vanadium	7440-62-2	50	10	1
Zinc	7440-66-6	60	12	1
Cyanide	57-12-5	10	1	--

[1]The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

[2]Subject to the restrictions specified in Exhibit D, any analytical method specified in ILM05.1 Exhibit D may be utilized as long as the documented Method Detection Limits (MDLs) are less than one-half the CRQLs.

[3]Mercury is analyzed by cold vapor atomic absorption. Cyanide is analyzed by colorimetry/spectrophotometry.

[4]Changes to the Inorganic Target Analyte List (TAL) (e.g., adding an additional analyte) or CRQLs may be requested under the flexibility clause in the contract.

[5]The CRQLs for soil are based on 100% solids. Samples with less than 100% solids may have CRQLs greater than those listed in the table above.

2.0 CLASSICAL CHEMISTRY PARAMETERS AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQLs)

Parameter	CRQL for Water[1,2,3] (mg/L)	CRQL for Soil[1,2,3,4] (mg/kg)
Alkalinity	2.0	
Ammonia, Nitrogen	0.10	
Biochemical Oxygen Demand	2.0	
Carbon, Total Organic	0.50	2000
Chemical Oxygen Demand	20.0	
Chloride	5.0	
Nitrate + Nitrite, Nitrogen	0.10	
Perchlorate	0.005	
Phosphorus, All Forms	0.10	
Solids, Total Dissolved	10.0	
Solids, Total Suspended	4.0	
Sulfate	10.0	
Hexavalent Chromium	0.010	0.40
Total Petroleum Hydrocarbons	2.0	50

[1]The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

[2]Subject to the restrictions specified in Exhibit D, any analytical method specified in ILM05.1 Exhibit D may be utilized as long as the documented Method Detection Limits (MDLs) are less than one-third of the CRQLs. For biochemical oxygen demand, the MDLs shall be less than 2 mg/L.

[3]Changes to the Classical Chemistry Parameters (e.g., adding dissolved organic carbon as a parameter or analyzing for nitrate and not nitrate + nitrite) or CRQLs may be requested under the flexibility clause in the contract.

[4]The CRQLs for soil are based on 100% solids. Samples with less than 100% solids may have CRQLs greater than those listed in the table above.