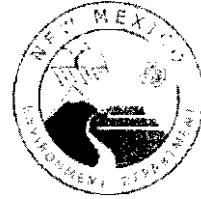


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 EP2012-5154

June 20, 2012

Arturo Duran
 Environmental Projects Office (EPO)
 U.S Department of Energy
 National Nuclear Security Administration
 Los Alamos Site Office
 3747 West Jemez Road MS A316
 Los Alamos, NM 87544

'12 JN 224P

**Subject: Submittal 2011 and 2012 Post Las Conchas Fire Sampling Results
 for Stormwater, Farm Soils, Post-flood Muck and Precipitation**

Dear Mr. Duran:

The New Mexico Environment Department, Department of Energy Oversight Bureau collected stormwater samples, ash laden sediment samples, and soils irrigated by waters containing ash after the 2011 Los Conchas Fire. Most samples identify impacts from the fire; an increase sediment load in stormwater, and an increase of metal and radionuclide content in the samples. The increases are not unexpected and are similar to those seen in the 2000 Cerro Grande fire. Ash laden samples and soils irrigated with black irrigation water (containing ash) are being used by the Interagency Flood Risk Assessment Team (IFRAT) to characterize potential risk to the public associated with contaminants transported by flooding in the aftermath of the fire. The Bureau also found that stormwater impacts to the Rio Grande from burned watershed inputs were infrequent and short lived. When Rio Grande stormwater data was compared to previous years data, the increases in suspended sediment and most sediment bound contaminants was slight.

Stormwater Sample Collection

The Oversight Bureau collected sixty-eight stormwater samples in Los Alamos Canyon, along the Rio Grande, and in watersheds draining areas burned by the Los Conchas fire during the 2011 summer. Individual storm events, from August 3rd to October 4th, often included multiple samples at 40 to 60 minute intervals from each station. The stormwater samples were measured for total and dissolved radionuclides and metals, suspended sediment, total organic carbon, alkalinity, polychlorinated biphenyl (PCBs) and dioxin/furans. Sediments from the stormwater samples were measured for radionuclides, metals, total organic carbon, and alkalinity. Water volume and sediment mass were not always sufficient for all analyte measurements.

102-EP-16-21-2012-447860

Stormwater and Precipitation Data Results

Chemical measurements from Rio Grande stormwater samples collected at Otowi, Buckman, and Alameda, and the Los Alamos Canyon gage E050 were compared to existing and appropriate New Mexico Water Quality Standards for Interstate and Intrastate Surface Waters. The criterion for eight metals; aluminum, cadmium, copper, lead, manganese, nickel, silver, and zinc are hardness-based and can be referenced in Subsection 1 of 20.6.4.900 NMAC. Samples collected from E110 in Los Alamos Canyon and Peralta and Bland Canyons, canyons below watersheds severely burned during the 2011 Los Conchas fire, were compared to statistical outlier levels or to New Mexico surface water standards. The Los Alamos Canyon gage station E110 and the Rio Grande Otowi station are on San Ildefonso Pueblo property and New Mexico standards do not apply to Pueblo lands. They are used as comparative values only, while outlier values often identify and quantify changing conditions in a water system. If possible, measurements were also made on sediments extracted from the stormwater samples. Although standards do not apply to them, they provide insight to the source of the contaminants in stormwater.

Radionuclide measurements are compared to §20.6.4.114, for the main stem of the Rio Grande from the Cochiti pueblo boundary upstream to Rio Pueblo de Taos. Multiple measurements of strontium-90, cesium-137, plutonium-239/240, exceeded the public water supply criteria though the rolling 12 month average criteria for strontium-90, cesium-137, and plutonium 239/240 were not exceeded.

Strontium-90 Results

- Strontium-90 values from Rio Grande stormwater and the Los Alamos Canyon gage E050 range from a non-detect -3.8 pCi/L to 35 pCi/L. Six of 34 measurements in the Rio Grande exceed the 3.5 pCi/L criterion.
- Values from Los Alamos Canyon range from a non-detect 0.12 to 84 pCi/L. Values that exceed a 34 pCi/L 90th percentile level originate from samples collected at E110 containing extraordinary SSC values. Those SSC values also exceed a 90th percentile level and are reported at levels greater than 250,000 mg/L.
- Strontium-90 in sediments extracted from Rio Grande stormwater range from a non-detect -0.048 to 0.6 pCi/g. Five of 24 measurements are considered detects at a 95% confidence level.
- Values in Los Alamos Canyon suspended sediment range from 0.056 to 2.2 pCi/g. We believe these values are primarily derived from ash, although a possible legacy component exists.
- Dissolved strontium-90 measurements are reported for 58 stormwater samples with values that range from a non-detect -0.12 pCi/L to 8.3 pCi/L. Forty-one values are considered detects at a 95% confidence level. Almost all Los Alamos Canyon samples

contain dissolved strontium-90 at detectable levels, while only 19 of 34 Rio Grande samples contain detectable strontium-90.

Cesium-137 Results

- Almost all 65 cesium-137 measurements are reported as non-detects. Three Los Alamos Canyon samples collected from the same event on August 19th at E050, and one sample collected along the Rio Grande at the Buckman Diversion on August 3rd contained cesium-137 at detectable levels. The Rio Grande cesium-137 value is 6 pCi/L, slightly under the 6.4 pCi/L Public Water Supply criterion and may originate from forest-fire ash in the sample.
- Only two cesium-137 values are reported for sediment samples, both above detection levels. Values of 2.5 pCi/g and 1.8 pCi/g are found in Los Alamos Canyon E110 samples and are similar to values found in ash from the 2000 Cerro Grande fire.
- Only seven values are reported for dissolved cesium-137, all of which are non-detects.

Adjusted Gross Alpha Results

- All of the Rio Grande samples contained adjusted gross alpha values reported above the 15 pCi/L Livestock Watering criterion, as well as most samples collected within Los Alamos Canyon. The gross alpha values range from a single non-detect value of 2.3 pCi/L to 6300 pCi/L. The gross alpha measurements, as well as gross beta, demonstrate a very strong positive correlation to the suspended sediment concentrations measured in the stormwater.
- Only six gross alpha measurements are reported for sediments. The values range from 4.9 pCi/g to 9.6 pCi/g and are similar to levels seen in the 2000 Cerro Grande ash samples.
- There are no dissolved gross alpha measurements reported.

Plutonium-238 Results

- Almost half, 33 of 64, plutonium-238 measurements are reported below their detection levels. The values in the Rio Grande and E050 range from a non-detect -0.069 pCi/L to 1.2 pCi/L. All values from the Rio Grande are much less than the 1.5 pCi/L Public Water Supply criterion.
- Total values from stormwater samples collected at E110 in Los Alamos Canyon range from a non-detect -0.003 to 2.2 pCi/L.

- Fifty-nine sediment measurements are reported for plutonium-238, of which 19 are considered detects. The values range from a non-detect -0.24 pCi/g to 0.18 pCi/g. Eight detections are from Rio Grande suspended sediment samples.
- Only six values are reported for dissolved plutonium-238, of which two are detections. Both samples originate from a September 7th sample collected at the Buckman Diversion.

Plutonium-239/240 Results

- Almost all, 60 of 64, plutonium-239/240 samples are reported as detects. The values in the Rio Grande range from a non-detect 0.026 pCi/L to 3.5 pCi/L. Six values exceed the 1.5 pCi/L Public Water supply criterion.
- The Los Alamos Canyon total plutonium-239/240 measurements range from a non-detect 0.029 pCi/L to 33 pCi/L.
- Fifty-nine sediment measurements are reported for plutonium-239/240, of which only two are considered non-detects. The values range from a non-detect -0.0024 pCi/g to 2.5 pCi/g.
- A LANL background reference for plutonium-239/240 is 0.013 pCi/g. Most values are greater than that reference. Only three samples from Otowi, August 21 are less than the reference.
- Plutonium-239/240 measurements in Los Alamos Canyon sediments extracted from stormwater are generally an order of magnitude greater than found in the Rio Grande. The average value in the Rio Grande is 0.05 pCi/g while it is 0.3 pCi/g in the Los Alamos Canyon sediments. The maximum value in Los Alamos Canyon is 2.5 pCi/g and 0.23 pCi/g in the Rio Grande. Although the Rio Grande values are similar to Cerro Grande ash, they may reflect diluted legacy plutonium from Los Alamos Canyon.
- Only one dissolved plutonium-239/240 detection of six measurements is reported. A value of 0.0077 pCi/L is reported for a September 7th Buckman sample event.

Americium-241 Results

- Almost all, 62 of 64 Americium-241 measurements are reported as detects ranging from 0.023 pCi/L to 6.9 pCi/L. None of the Rio Grande measurements exceed the 1.9 pCi/L Public Water Supply criterion. Five measurements are greater than the standard at E050, and while the standards do not apply at E110 four of six measurements are greater than 1.9 pCi/L.
- As with plutonium-239/240, the americium-241 measurements in Los Alamos Canyon sediments are generally greater than found in the Rio Grande. The average value in the Rio Grande is 0.2 pCi/g while it is 1.1 pCi/g in the Los Alamos Canyon sediments. The maximum value in Los Alamos Canyon is 6.9 pCi/g and 0.81 pCi/g in the Rio Grande.

The Rio Grande values are similar although greater than Cerro Grande ash, and may reflect diluted legacy plutonium from Los Alamos Canyon.

- Three of six dissolved americium-241 detections are reported. A value of 0.013 pCi/L is reported for an E110 September 7th event, and two samples at Buckman from the same day have values of 0.016 pCi/L and 0.021 pCi/L.

Uranium isotope -234, -235, and -238 Results

- Sixty-four uranium isotope -234, -235, and -238 measurements are reported for which there are no applicable water quality standards. The isotope relationships from all samples reflect naturally occurring uranium in that the -234 and -238 isotopes are similar, while U-235 is much less in concentration. Therefore, the remaining uranium evaluation will refer only to the -234 isotope.
- Uranium-234 ranges from 0.016 pCi/L to 320 pCi/L, and as with many other analytes, the concentrations in water are positively correlated to the suspended sediment concentrations.
- Uranium measurements in the Rio Grande, Los Alamos Canyon, and LANL reference values are similar.

Results for Metals and Inorganics

A comparison of dissolved metal measurements to criteria from the New Mexico Water Quality Standards for Interstate and Intrastate Surface Waters indicates that a single sample at E110 collected July 22nd exceeds an arsenic criterion of 0.009 mg/L. It was a single sample from that event and is reported at 0.0016 mg/L.

Further comparisons to surface water standards indicate seven samples exceed a thallium 0.0012 mg/L criterion. The exceedances originate from four events; August 26th and September 4th in the Rio Grande at Otowi and Buckman, August 28th at E050, and September 1st at E050. All values are B flagged, they are greater than the detection limits but less than the reporting limit.

Total recoverable cyanide exceeded the Acute Aquatic Life criterion of 22 µg/L in thirteen of forty-one samples. The criterion was exceeded in eight of nineteen samples from Los Alamos Canyon, three of twenty samples from the Rio Grande, and once each in Bland and Peralta Canyons.

PCB and Dioxin Results

We encountered data quality problems in 22 of the 42 samples analyzed for PCBs. Contaminated glassware was used by the analytical laboratory resulting in high batch blank concentrations and fundamentally unreliable data. Nine results were rejected and all twenty-two suspect samples

were flagged as not valid for all uses. Only data that was not rejected will be evaluated here though all data is included in the submittal.

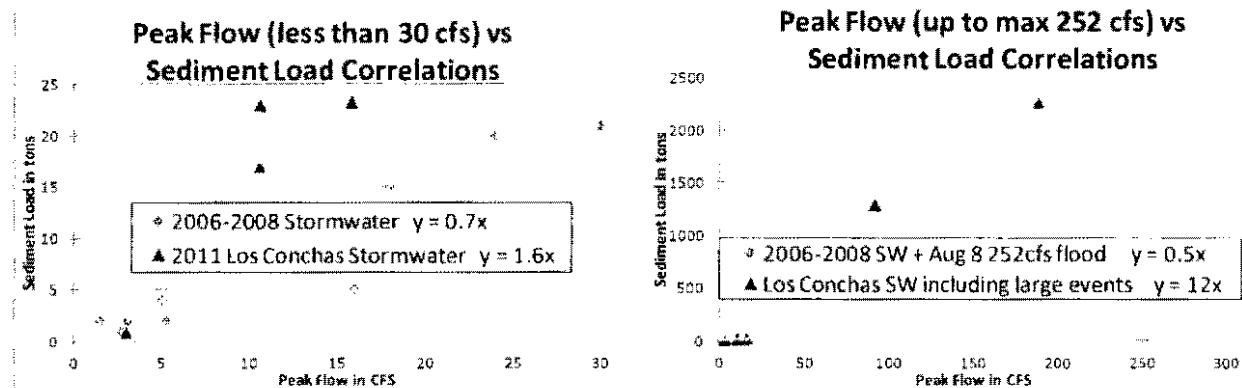
Thirteen of seventeen PCB samples from the Rio Grande at the BDD, Otowi, and Rio Grande above Alameda Bridge exceeded the Human Health criterion of 0.000064 µg/L and three of those exceeded the Wildlife Habitat criterion of 0.014 µg/L. Rio Grande results ranged from 34 pg/L to 46,219 pg/L. Eleven of eleven samples from E050 in Los Alamos Canyon and Peralta Canyon exceeded the Human Health criterion and six of the eleven samples exceeded the Wildlife Habitat criterion. Results in Peralta and Los Alamos Canyons ranged from 1,027 pg/L to 67,746 pg/L.

One of five precipitation samples from Bandelier National Monument and Los Alamos County Airport exceeded the Human Health criterion. The concentrations in precipitation ranged from 39 pg/L to 81,296 pg/L. The highest result was collected at Bandelier during the Las Conchas fire but the data is questionable due to laboratory error.

Twelve of thirteen results for dioxin in stormwater from the Rio Grande at BDD and Otowi exceeded the Human Health criterion of 0.05 pg/L. TEQ values ranged from 0.013 pg/L to 14.8 pg/L. In Los Alamos Canyon at E050 and Peralta Canyon, the Human Health criterion was exceeded in five of six samples and TEQs ranged from 0.028 pg/L to 7.23 pg/L. In the Rio Grande at Alameda, TEQs ranged from 0.396 pg/L to 10.9 pg/L and all exceeded the Human Health criterion.

Sediment Transport in Stormwater

Additional sediment transport in stormwater originating from watersheds burned during the Los Conchas fire was expected. To investigate the relative rate increase of sediment transport in stormwater, sediment flux for each event that the Bureau sampled was determined. The total sediment load measured in tons was then correlated to the cfs peak flow measured during the flood. This relationship is presented as the transport rate. As an example, suspended sediment transport rates (tons of sediment to peak flow) from E050 are compared here to rates during 2006 to 2008. Stormwater at E050 carried much more sediment relative to flow than before the Los Conchas Fire. Compared to peak flows that occurred during 2006 to 2008, flows less than 30 cfs after the Los Conchas Fire carried about twice the sediment ($1.6x / 0.7x$: where x is peak flow in cfs). Los Conchas transport rates for peak flows greater than 90 cfs appear to have carried 24 times the amount of sediment ($12x / 0.5x$) for at least the 91 cfs and 188 cfs floods presented in this chart.



Based on the method described above, we estimate 4340 tons of sediment was transported past E050. As the upper watershed functions improve, erosion potential diminishes and precipitation capture potential increases, the sediment load to peak flow relationship may approach the earlier 2006 to 2008 coefficients of 0.5 to 0.7. Comparisons similar to this could also have been applied to gage stations above and below mitigation efforts in the Los Alamos watershed to determine the effectiveness of those efforts.

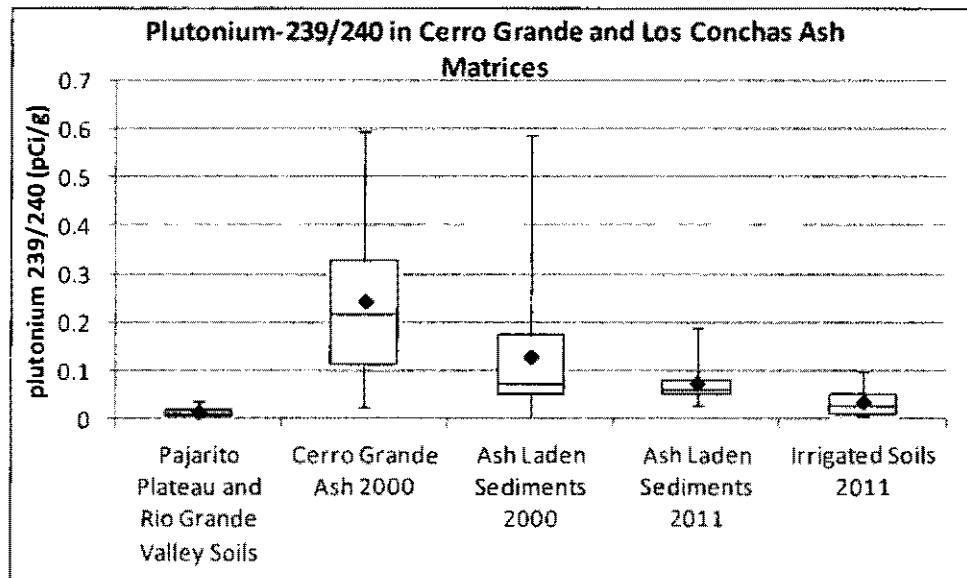
Additional Sample Collection

The Oversight Bureau collected an additional 18 samples including; ash laden sediments deposited during receding storm events, and soils irrigated with black ash-laden water. The samples are from watersheds draining areas burned by the Los Conchas fire during the 2011 summer and along the Rio Grande below those confluences. They were measured for total radionuclides and metals, total organic carbon, grain size distribution, PCB, dioxin/furan and alkalinity. The results are compared to Cerro Grande ash averages and the upper 95% confidence levels of Bureau and LANL background soil data. The results will also be used by IFRAT to determine potential health risks from potential nuclear and industrial fallout materials incorporated into the forest ash.

PCB levels in farm soils ranged from 80.3 pg/g to 1,004 pg/g while levels of PCBs in ash-laden muck ranged from 155 pg/g to 8,448 pg/g. The highest levels of PCBs in muck was found in sediments in Water Canyon near the Rio Grande.

Dioxin TEQ levels in twelve ash-laden muck samples ranged from 0.012 pg/g to 0.50 pg/g and averaged 0.138 pg/g. Dioxin TEQ levels in six farm soil samples ranged from 0.072 pg/g to 0.35 pg/g and averaged 0.19 pg/g. All dioxin TEQ values are well below the NMED soil screening guidance level for Residential Soil of 45 pg/g.

The majority of samples, 13 of 18, contained radionuclide measurements that exceeded the upper 95% confidence levels for background from LANL and Bureau data. They were often more near Cerro Grande ash levels that are generally five times greater than background upper tolerance levels (ranging from two to ten times background). The only samples that did not appear to be impacted by waters containing ash are the upper and lower Pecos fields and the top of the Lower Field at Sile. Generally the samples irrigated with black ash-laden waters had the least impacts, while the ash laden samples in Peralta Canyon, Water Canyon, along the Rio Grande, and the Nambe reference samples contained the greatest impacts. The following box and whisker chart demonstrates the plutonium-239/240 evaluation for 2000 Cerro Grande and 2011 Los Conchas samples.



Measurements for the metals demonstrate similar results. The fields irrigated with black ash-laden water appear to have little impacts, while the remaining ash-laden sediment samples contain elevated levels of some metals similar to samples collected during the Cerro Grande fire. While similar, the values are generally smaller and we suspect the samples are diluted, sampled at a greater distance and relatively later than those collected after the Cerro Grande fire. The samples that appear impacted by ash have elevated levels of barium, copper, lead, manganese, mercury, and possibly beryllium and zinc.

The effects of the Las Conchas fire dominated the stormwater and suspended sediment quality in 2011. In nearly all instances, the flushing of ash from the affected canyons overwhelmed any potential impacts from LANL legacy contaminants on stormwater quality in the Rio Grande.

Arturo Duran
June 20, 2012
2011 Stormwater and 2012 Muck and Soil
Page 9 of 9

If you have any questions about this data please contact David Englert at 476-6022 or Ralph Ford-Schmid at 476-6023.

Sincerely,



Stephen Yanicak, Staff Manager/POC

SY:de-rfs

cc: Tom Skibitski, NMED, Chief, DOE OB
Gene Turner, DOE LASO MS A316
Alison Dorries, LANS, ENV-DO: ENVIRONMENTAL PROTECTION MS K491
Chris Echohawk, LANS, ENV-EDA: ENVIRONMENTAL DATA & ANALYSIS
MS M996

Table 1. Total Radiation Dose Received by Patients During Radiation Therapy

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Table 2. Dissolved Radionuclide Concentrations (pCi/L) in Stormwater during 2011

Location	Date	Time	Depth	Sr-90			Cs-137			Pu-238			Pu-238/240		
				RESULT	MDA	UNCL	RESULT	MDA	UNCL	RESULT	MDA	UNCL	Q/AC	RESULT	MDA
1000ft	8/19/2011	18:49	CS	2.8	0.68	0.68									
1000ft	8/19/2011	19:35	CS	3.4	0.9	0.67									
1000ft	8/19/2011	20:29	CS	3.5	0.97	0.68									
1000ft	8/22/2011	16:58	CS	4.9	1.3	0.74									
1000ft	8/23/2011	15:47	CS	4.9	1.3	0.85									
1000ft	8/23/2011	17:47	CS	3	1.3	0.65									
1000ft	8/28/2011	2:56	CS	4.1	1.1	0.69									
1000ft	8/28/2011	3:45	CS	4.3	1.1	0.76									
1000ft	8/28/2011	4:35	CS	3.8	1	0.72									
1000ft	9/7/2011	18:38	CS	0.63	0.37	0.6									
600ft	9/7/2011	19:28	CS	0.28	0.27	0.57									
100ft	9/7/2011	20:18	CS	2.4	0.69	0.65									
600ft	9/7/2011	20:58	CS	3.2	0.98	0.67									
600ft	9/7/2011	21:48	CS	2.6	0.81	0.69									
600ft	9/7/2011	22:38	CS	2.2	0.64	0.66									
1000ft	9/7/2011	23:56	CS	1.4	0.42	0.76									
600ft	9/10/2011	3:50	CS	3.4	0.94	0.58									
1000ft	10/2/2011	16:56	CS	2.3	0.75	0.72									
500ft	10/7/2011	16:56	DUP	1.9	0.69	0.75									
500ft	8/6/2011	14:42	CS	8.3	2	0.61									
610ft	8/22/2011	16:30	CS	7.4	1.9	0.68									
610ft	8/22/2011	17:20	CS	6.2	1.7	0.66									
610ft	9/1/2011	18:33	CS	1.3	0.44	0.56									
610ft	9/7/2011	14:07	CS	1.2	0.63	0.47									
Pearlita Canyon	8/24/2011	17:15	CS	2.4	0.87	0.61									
Rio Grande @ Buckman	10/4/2011	19:57	CS	0.49	0.69	0.35									
Rio Grande @ Buckman	8/7/2011	18:59	CS	1.5	0.73	0.56									
Rio Grande @ Buckman	8/7/2011	18:59	CS	1.6	0.5	0.55									
Rio Grande @ Buckman	8/7/2011	19:54	CS	0.82	0.35	0.54									
Rio Grande @ Buckman	8/7/2011	20:44	CS	0.96	0.36	0.58									
Rio Grande @ Buckman	8/7/2011	20:42	CS	1.8	0.82	0.58									
Rio Grande @ Buckman	8/21/2011	19:27	CS	0.5	0.35	0.68									
Rio Grande @ Buckman	8/21/2011	19:39	CS	0.55	0.36	0.74									
Rio Grande @ Buckman	8/21/2011	20:19	CS	0.82	0.47	0.79									
Rio Grande @ Buckman	8/24/2011	20:18	CS	0.65	0.39	0.75									
Rio Grande @ Buckman	8/25/2011	21:04	CS	0.68	0.37	0.58									
Rio Grande @ Buckman	8/25/2011	21:21	CS	0.41	0.45	0.68									
Rio Grande @ Buckman	8/27/2011	5:06	CS	1.2	0.62	0.7									
Rio Grande @ Buckman	8/29/2011	5:41	CS	1.1	0.44	0.62									
Rio Grande @ Buckman	8/29/2011	6:36	CS	1.2	0.48	0.7									
Rio Grande @ Buckman	9/4/2011	21:54	CS	2.3	0.7	0.67									
Rio Grande @ Buckman	9/4/2011	22:44	DUP	2	0.59	0.53									
Rio Grande @ Buckman	9/7/2011	14:42	CS	0.45	0.74	0.37									
Rio Grande @ Buckman	9/7/2011	19:26	CS	0.19	0.66	0.3									
Rio Grande @ Buckman	9/7/2011	19:56	CS	0.66	0.67	0.42									
Rio Grande @ Buckman	9/7/2011	20:11	CS	0.55	0.65	0.44									
Rio Grande @ Buckman	9/7/2011	20:56	CS	0.58	0.7	0.37									
Rio Grande @ Buckman	9/7/2011	21:11	CS	0.63	0.39	0.73									
Rio Grande @ Chico	8/27/2011	18:31	CS	0.042	0.32	0.92									
Rio Grande @ Chico	8/27/2011	19:33	CS	0.13	0.57	0.8									
Rio Grande @ Chico	8/16/2011	19:40	CS	0.96	0.41	0.66									
Rio Grande @ Chico	8/26/2011	20:20	CS	0.73	0.32	0.65									
Rio Grande @ Chico	8/26/2011	21:00	CS	2.2	0.49	0.79									
Rio Grande @ Chico	9/4/2011	23:48	CS	1.1	0.43	0.68									
Rio Grande @ Chico	9/5/2011	0:06	CS	0.65	0.36	0.65									
Rio Grande @ Chico	9/5/2011	1:06	CS	2.2	0.59	0.76									
Rio Grande above Alameda	8/13/2011	4:53	CS	0.23	0.29	0.65									
Rio Grande above Alameda	8/13/2011	4:53	CS	0.12	0.26	0.59									
Rio Grande above Alameda	8/13/2011	4:53	CS	0.81	0.39	0.63									
Rio Grande above Alameda	8/13/2011	21:07	CS	0.084	0.25	0.56	TU,0								
Rio Grande above Alameda	8/21/2011	4:53	CS	0.5	0.28	0.53	U								

count: 60
minimum: 0.3
maximum: 8.3
standard deviation: 1.765564
mean: 1.998664
median: 1.3
Outlier 90 percentile: 4.71

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Table 2 Dissolved Radionuclide Concentrations (pCi/L) in Stormwater during 2011 (continued)

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Figure 3. Dissimilarity matrix of the 1000 most common species in the study area. The dissimilarity matrix was calculated by the Euclidean distance method.

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Sample	Reaction Time (min)	Reaction Temperature (°C)	Reaction Pressure (atm)	Initial Concentration (M)		Final Concentration (M)		Yield (%)		Purity (%)		Product		Reaction Conditions	
				[A]	[B]	[A] (M)	[B] (M)	Yield (%)	Purity (%)	Product	Reaction Conditions	Reaction Time (min)	Reaction Temperature (°C)	Reaction Pressure (atm)	
S1	10	25	1.0	0.10	0.05	0.05	0.05	85	98	Product A	100	10	25	1.0	
S2	15	30	1.5	0.15	0.08	0.12	0.08	78	95	Product B	95	15	30	1.5	
S3	20	35	2.0	0.20	0.10	0.18	0.10	72	92	Product C	90	20	35	2.0	
S4	25	40	2.5	0.25	0.15	0.22	0.15	68	88	Product D	85	25	40	2.5	
S5	30	45	3.0	0.30	0.20	0.28	0.20	62	85	Product E	80	30	45	3.0	
S6	35	50	3.5	0.35	0.25	0.32	0.25	58	82	Product F	78	35	50	3.5	
S7	40	55	4.0	0.40	0.30	0.38	0.30	52	78	Product G	75	40	55	4.0	
S8	45	60	4.5	0.45	0.35	0.42	0.35	48	75	Product H	70	45	60	4.5	
S9	50	65	5.0	0.50	0.40	0.48	0.40	42	72	Product I	68	50	65	5.0	
S10	55	70	5.5	0.55	0.45	0.52	0.45	38	68	Product J	65	55	70	5.5	
S11	60	75	6.0	0.60	0.50	0.58	0.50	32	65	Product K	62	60	75	6.0	
S12	65	80	6.5	0.65	0.55	0.62	0.55	28	62	Product L	58	65	80	6.5	
S13	70	85	7.0	0.70	0.60	0.68	0.60	24	58	Product M	55	70	85	7.0	
S14	75	90	7.5	0.75	0.65	0.72	0.65	20	55	Product N	52	75	90	7.5	
S15	80	95	8.0	0.80	0.70	0.78	0.70	16	52	Product O	48	80	95	8.0	
S16	85	100	8.5	0.85	0.75	0.82	0.75	12	48	Product P	45	85	100	8.5	
S17	90	105	9.0	0.90	0.80	0.88	0.80	8	45	Product Q	42	90	105	9.0	
S18	95	110	9.5	0.95	0.85	0.92	0.85	4	40	Product R	38	95	110	9.5	
S19	100	115	10.0	1.00	0.90	0.98	0.90	0	35	Product S	32	100	115	10.0	
S20	105	120	10.5	1.05	0.95	1.02	0.95	-	-	Product T	28	105	120	10.5	

66. *Primum Doctorabile Regum et C. Gallicarum*
G. B. Vico, et al. 1988
Città del Vaticano: Pontificia Accademia Romana di Archeologia.

Table 2. Estimated Total Number of Enrichment Crayfish in Stream Reach 2 (Kilometer 1.0-1.25) Based on Abundance at Each Sampling Station

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Rechtsprechung Rechtssicherheit und Rechtsschutz

THE INFLUENCE OF THE CULTURE ON THE PRACTICE OF MEDICAL ETHICS

Minimum 1500 words; longer or shorter by arrangement
Deadline for first draft submission is 1st October 2011

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NDA	Category	Type	Sub-Type	Status	Initial Assessment		Intermediate Assessment		Final Assessment	
					Score	Description	Score	Description	Score	Description
100	High	High	High	High	95	95% confidence in the system's performance.	95	95% confidence in the system's performance.	95	95% confidence in the system's performance.
90	Medium	Medium	Medium	Medium	85	85% confidence in the system's performance.	85	85% confidence in the system's performance.	85	85% confidence in the system's performance.
80	Medium	Medium	Medium	Medium	75	75% confidence in the system's performance.	75	75% confidence in the system's performance.	75	75% confidence in the system's performance.
70	Medium	Medium	Medium	Medium	65	65% confidence in the system's performance.	65	65% confidence in the system's performance.	65	65% confidence in the system's performance.
60	Medium	Medium	Medium	Medium	55	55% confidence in the system's performance.	55	55% confidence in the system's performance.	55	55% confidence in the system's performance.
50	Medium	Medium	Medium	Medium	45	45% confidence in the system's performance.	45	45% confidence in the system's performance.	45	45% confidence in the system's performance.
40	Medium	Medium	Medium	Medium	35	35% confidence in the system's performance.	35	35% confidence in the system's performance.	35	35% confidence in the system's performance.
30	Medium	Medium	Medium	Medium	25	25% confidence in the system's performance.	25	25% confidence in the system's performance.	25	25% confidence in the system's performance.
20	Medium	Medium	Medium	Medium	15	15% confidence in the system's performance.	15	15% confidence in the system's performance.	15	15% confidence in the system's performance.
10	Medium	Medium	Medium	Medium	5	5% confidence in the system's performance.	5	5% confidence in the system's performance.	5	5% confidence in the system's performance.
5	Medium	Medium	Medium	Medium	2	2% confidence in the system's performance.	2	2% confidence in the system's performance.	2	2% confidence in the system's performance.
1	Low	Low	Low	Low	1	1% confidence in the system's performance.	1	1% confidence in the system's performance.	1	1% confidence in the system's performance.
0	Low	Low	Low	Low	0	0% confidence in the system's performance.	0	0% confidence in the system's performance.	0	0% confidence in the system's performance.

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Table 5. Total Hydrogen Sulfide Concentrations ($\mu\text{g/L}$) in Sediments from Shallow Sediments during 2013

WILHELM REINHOLD VON GÖTTSCHE

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Chemical shift average selection points

2016年5月20日，中国科学院植物研究所植物多样性与生物地理学国家重点实验室的科研人员在《自然》杂志上发表文章，展示了他们对青藏高原植被变化的研究成果。该研究揭示了过去数十年间青藏高原植被发生了显著的变化，主要表现为草地退化、灌木入侵和物种丰富度降低。

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REVIEW ARTICLE

THE JOURNAL OF CLIMATE

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દેશભક્તિ માટે નોંધાયે રહેલા વિવરીઓ

Table 2. Estimated sedimentation rates from the soil profiles.

Bivariate Model		Slope-Slope		Intercept-Intercept		Intercept-Intercept		Intercept-Intercept		Intercept-Intercept		Intercept-Intercept	
Dependent	Independent	Result	Unc.	Result	Unc.	Result	Unc.	Result	Unc.	Result	Unc.	Result	Unc.
4.5	4.27	5.1	0.47	0.043	0.043	0.13	0.00007	0.013	0.17	0.00007	0.013	0.2	0.03
2.5	2.77	2.9	0.47	0.043	0.043	0.28	0.00007	0.013	0.17	0.00007	0.013	0.1	0.02
2.8	2.84	4.3	0.47	0.043	0.043	0.22	0.00007	0.013	0.07	0.00007	0.013	0.22	0.04
4.2	4.2	4.3	0.47	0.043	0.043	0.09	0.00007	0.013	0.15	0.00007	0.013	0.07	0.01
6.4	1.15	7.3	0.47	0.043	0.043	0.16	0.00007	0.013	0.14	0.00007	0.013	0.18	0.02
3.7	3.7	4.3	0.47	0.043	0.043	0.14	0.00007	0.013	0.13	0.00007	0.013	0.17	0.01
8	1.1	4.3	0.47	0.043	0.043	0.13	0.00007	0.013	0.19	0.00007	0.013	0.18	0.01
3.7	0.93	3.2	0.47	0.043	0.043	0.24	0.00007	0.013	0.14	0.00007	0.013	0.18	0.01
3.4	2.3	19	0.47	0.043	0.043	0.26	0.00007	0.013	0.15	0.00007	0.013	0.17	0.01
3.2	0.87	6.3	0.47	0.043	0.043	0.25	0.00007	0.013	0.15	0.00007	0.013	0.17	0.01
6.5	10	1.9	0.47	0.043	0.043	0.15	0.00007	0.013	0.22	0.00007	0.013	0.18	0.01
10	2.1	15	0.47	0.043	0.043	0.27	0.00007	0.013	0.14	0.00007	0.013	0.18	0.01
3.7	0.79	6	1.1	0.47	0.043	0.08	0.00007	0.013	0.17	0.00007	0.013	0.12	0.01
6.3	1.3	8.6	1.6	0.47	0.043	0.15	0.00007	0.013	0.15	0.00007	0.013	0.15	0.01
2.9	1.6	13	2.3	0.47	0.043	0.02	0.00007	0.013	0.21	0.00007	0.013	0.17	0.01
5.4	1.12	7.1	1.4	0.47	0.043	0.02	0.00007	0.013	0.17	0.00007	0.013	0.17	0.01
9	1.8	1.8	2	0.47	0.043	0.02	0.00007	0.013	0.23	0.00007	0.013	0.17	0.01
16	4.3	14	2.6	0.47	0.043	0.08	0.00007	0.013	0.15	0.00007	0.013	0.15	0.01
12	3.6	23	8.4	0.47	0.043	0.08	0.00007	0.013	0.14	0.00007	0.013	0.15	0.01
17	3.6	11	2.4	0.47	0.043	0.11	0.00007	0.013	0.13	0.00007	0.013	0.15	0.01
5.8	1.6	6.3	1.1	0.47	0.043	0.12	0.00007	0.013	0.15	0.00007	0.013	0.15	0.01

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It is now clear that the MDC is a party which has no place in the MDC.

more than 1000 times greater than NDC.

Mathematics may not yet exist, but the experience of greater than five hundred years.

• **Software**: A software application is a set of computer programs designed to perform specific tasks. It can be used for various purposes such as word processing, data analysis, or game playing.

- **System Software**: System software is a type of software that manages and controls the computer's hardware and software resources. It includes the operating system, drivers, and utilities.
- **Application Software**: Application software is a type of software that performs specific tasks for users. Examples include Microsoft Word, Excel, and Photoshop.

• **Hardware**: Hardware refers to the physical components of a computer system. It includes the central processing unit (CPU), memory, storage devices, input devices (such as a keyboard and mouse), and output devices (such as a monitor and printer).

- **Processor**: The processor is the central component of a computer that executes instructions and performs calculations.
- **Memory**: Memory is a temporary storage device that holds data and instructions while they are being processed by the CPU.
- **Storage**: Storage devices are used to store data permanently. Examples include hard drives, solid-state drives, and external drives.
- **Input Devices**: Input devices are used to enter data into the computer. Examples include keyboards, mice, and scanners.
- **Output Devices**: Output devices are used to display data or produce physical output. Examples include monitors, printers, and speakers.

Table 9. Metals, Total Organic Carbon, and Cysteide in Ash Laden Sediments and Bulk Water Influent Soils

Location	Date	Acetate		Benzylbenzene		Cadmium		Calcium		Chromium		Cobalt		Copper		Cyanide (ppm)		Iron		Lead		Magnesium		
		Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result
Lower Pecos Field 1	4-Dec-12	3.6	B	4-Dec-12	B	0.0002	U	0.00073	U	15000	J	7.2	5.3	15	0.18	0	13000	9.2	3800	320	3800	320	210	210
Upper Pecos Field 2	4-Dec-12	2.1	B	4-Dec-12	B	0.000216	U	0.00066	U	15000	J	5.5	3.6	7.2	0.18	0	9100	6.6	2800	2500	2800	2500	360	360
Top of Lower Field @ Site	15-Dec-12	3.4	B	200	B	0.6	B	0.25	B	15000	J	7.4	5.2	11	0.21	0	12000	9.9	4500	4200	4500	4200	3700	3700
Santa Fe Iron Conglomerate	15-Feb-12	3.1	B	200	B	0.99	U	0.00005	U	27000	J	11	7.4	15	0.19	0	18000	14	3700	3700	3700	3700	310	310
Top of Upper Field @ Site	15-Dec-12	1.9	B	180	B	0.44	B	0.11	B	9000	J	5.8	4.1	8.4	0.19	0	9400	8.4	3100	3100	3100	3100	330	330
Bottom of Upper Field @ Site	15-Dec-12	2.3	B	170	B	0.45	B	0.16	B	12000	J	1.3	4.6	8.7	0	10000	9.3	3500	3500	3500	3500	3200	3200	
Bottom of Lower Field @ Site	15-Dec-12	2.9	B	160	B	0.47	B	0.16	B	16000	J	7.3	4.3	8.9	0.32	0	10500	8.5	3800	3800	3800	3800	240	240
Perito 85 North	24-Jan-12	3.5	B	520	B	1	B	0.000033	U	25000	J	7.2	7.1	21	4.2	0	13000	35	3500	3500	3500	3500	2100	2100
Perito 85 South	24-Jan-12	1.8	B	120	B	0.000119	U	0.00002	U	6200	J	4.6	7.6	0.55	10000	12	3000	3000	3000	3000	780	780		
Perito 1	24-Jan-12	2.7	B	210	B	0.83	U	0.000097	U	12000	J	6	13	1.1	1.2	13000	19	2500	2500	2500	2500	1800	1800	
Perito 2	24-Jan-12	3.8	B	230	B	1.4	B	0.00011	U	13000	J	6.9	6	16	0.2	13000	31	2800	2800	2800	2800	2800	2800	
Perito Stream Bank	23-Dec-11	1.4	B	150	B	0.37	B	0.15	B	14000	J	7.4	4.2	7.2	0.31	0	8700	11	2100	2100	2100	2100	580	580
Perito Spring A	29-Dec-11	2.6	B	130	B	0.73	B	0.23	B	7100	J	5.3	3.9	9.3	0.25	0	8300	17	2000	2000	2000	2000	1100	1100
Water Canyon near Rio Grande	31-Jan-12	3.2	B	650	B	1.2	B	0.000098	U	11000	J	8.3	6.4	17	1	15000	25	2300	2300	2300	2300	720	720	
Rio Grande @ Site	15-Dec-12	2.5	B	170	B	0.66	B	0.24	B	8500	J	5.3	4.3	9.2	0.32	0	8500	15	2500	2500	2500	2500	930	930
Rio Grande @ Santa Fe River	16-Feb-12	2.5	B	210	B	0.00012	U	16000	J	7.8	5.7	13	0.29	0	13000	20	3100	3100	3100	3100	590	590		
Nacimiento 1 West	9-Dec-11	2.3	B	160	B	0.14	B	0.10	B	1100	J	12	8.5	2.3	0.23	0	22000	16	4500	4500	4500	4500	1000	1000
Nacimiento 1 West	9-Dec-11	1.7	B	180	B	0.74	B	0.26	B	2100	J	12	9.4	2.2	0.24	0	19000	19	4500	4500	4500	4500	1200	1200
Grande Lake	25-Dec-11	2.2	B	220	B	1.2	B	0.35	B	6200	J	11	9.2	2.7	0.36	0	28000	17	4500	4500	4500	4500	360	360
Horseshoe	3-Jan-12	4.7	B	130	B	0.56	B	0.05	B	18000	J	4.6	7	0.19	0	15000	8.8	1900	1900	1900	1900	360	360	
Mercury (ppm)	Mercury (ppm)	Potassium	Sodium	Sulfur	Silver	Sodium	Sulfur	Sodium	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	Sulfur	
Date	Date	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	
Upper Pecos Field 1	4-Jan-12	0.048	B	280	B	0.00034	U	0.00023	U	0.035	U	982	U	0.0039	U	0.0039	U	240	19	32	32	32	32	
Upper Pecos Field 2	4-Jan-12	0.0082	B	7.3	B	0.00032	U	0.00022	U	0.033	U	919	U	0.0036	U	0.0036	U	5000	14	25	25	25	25	
Top of Lower Field @ Site	15-Dec-12	0.017	B	8.7	B	0.00039	U	0.00027	U	0.037	U	938	U	0.0037	U	0.0037	U	800	23	34	34	34	34	
Santa Fe Iron Conglomerate	15-Feb-12	0.023	B	15	B	0.00035	U	0.00024	U	0.043	U	876	U	0.0039	U	0.0039	U	7700	23	47	47	47	47	
Top of Upper Field @ Site	15-Dec-12	0.025	B	7.1	B	0.00036	U	0.00025	U	0.025	U	239	U	0.0037	U	0.0037	U	12000	16	29	29	29	29	
Bottom of Upper Field @ Site	15-Dec-12	0.021	B	11	B	0.00032	U	0.00026	U	0.026	U	193	U	0.0037	U	0.0037	U	17000	17	32	32	32	32	
Bottom of Lower Field @ Site	15-Dec-12	0.017	B	6.1	B	0.00030	U	0.00025	U	0.028	U	840	U	0.0036	U	0.0036	U	11000	18	28	28	28	28	
Perito 85 North	24-Jan-12	0.693	B	141	B	1.5	B	0.00032	U	0.00022	U	0.033	U	919	U	0.0036	U	5000	17	67	67	67	67	
Perito 85 South	24-Jan-12	0.013	B	9.6	B	0.00041	U	0.00011	U	0.036	U	923	U	0.0037	U	0.0037	U	5700	14	28	28	28	28	
Perito 1	24-Jan-12	0.048	B	9.3	B	0.00038	U	0.00012	U	0.038	U	928	U	0.0038	U	0.0038	U	5800	16	40	40	40	40	
Perito 3	24-Jan-12	0.038	B	9.3	B	0.00031	U	0.00015	U	0.038	U	912	U	0.0039	U	0.0039	U	5900	16	56	56	56	56	
Perito Stream Bank	20-Dec-11	0.014	B	7.2	B	0.00031	U	0.00012	U	0.023	U	193	U	0.0039	U	0.0039	U	12000	14	27	27	27	27	
Perito Terce A	29-Dec-12	0.0042	B	6.3	B	0.00034	U	0.00015	U	0.033	U	938	U	0.0036	U	0.0036	U	3000	12	34	34	34	34	
Water Canyon near Rio Grande	31-Jan-12	0.047	B	10	B	0.00036	U	0.00012	U	0.046	U	865	U	0.0032	U	0.0032	U	31000	18	61	61	61	61	
Rio Grande @ Site	15-Dec-11	0.014	B	6.8	B	0.00046	U	0.00013	U	0.033	U	795	U	0.0036	U	0.0036	U	22000	12	34	34	34	34	
Rio Grande @ Santa Fe River	16-Feb-12	0.002	B	9.9	B	0.00054	U	0.00018	U	0.038	U	259	U	0.0037	U	0.0037	U	43000	16	50	50	50	50	
Nombre 1 East	9-Dec-11	0.039	B	12	B	0.00043	U	0.00013	U	0.03	U	87	U	0.0036	U	0.0036	U	30000	12	29	29	29	29	
Nombre 2 West	9-Dec-11	0.029	B	12	B	0.00041	U	0.00012	U	0.041	U	110	U	0.0035	U	0.0035	U	34000	20	66	66	66	66	
Nombre 2 West	25-Dec-11	0.072	B	10	B	0.00046	U	0.00011	U	0.031	U	609	U	0.0034	U	0.0034	U	78000	24	40	40	40	40	
Horseshoe	3-Jan-12	0.005	B	2.2	B	0.25	B	0.04	B	0.034	B	813	U	0.0032	U	0.0032	U	44000	38	54	54	54	54	

U = Not Detected or above the Client Requested detection limit

B = Below reporting limit but above detection limit

Table 3.0: Farms and Ranch properties size

Farm Size	Gravel	Topsoil	Total Silt	Total Clay	Soil										Soil										Soil																																																																																																																																																																																																					
Fraction 0.0-0.05 mm	Fraction 0.05-0.1 mm	Fraction 0.1-0.25 mm	Fraction 0.25-0.5 mm	Fraction 0.5-1.0 mm	Fraction 1.0-2.0 mm	Fraction 2.0-4.0 mm	Fraction 4.0-8.0 mm	Fraction 8.0-16.0 mm	Fraction 16.0-32.0 mm	Fraction 32.0-64.0 mm	Fraction 64.0-128.0 mm	Fraction 128.0-256.0 mm	Fraction 256.0-512.0 mm	Fraction 512.0-1024.0 mm	Fraction 1024.0-2048.0 mm	Fraction 2048.0-4096.0 mm	Fraction 4096.0-8192.0 mm	Fraction 8192.0-16384.0 mm	Fraction 16384.0-32768.0 mm	Fraction 32768.0-65536.0 mm	Fraction 65536.0-131072.0 mm	Fraction 131072.0-262144.0 mm	Fraction 262144.0-524288.0 mm	Fraction 524288.0-1048576.0 mm	Fraction 1048576.0-2097152.0 mm	Fraction 2097152.0-4194304.0 mm	Fraction 4194304.0-8388608.0 mm	Fraction 8388608.0-16777216.0 mm	Fraction 16777216.0-33554432.0 mm	Fraction 33554432.0-67108864.0 mm	Fraction 67108864.0-134217728.0 mm	Fraction 134217728.0-268435456.0 mm	Fraction 268435456.0-536870912.0 mm	Fraction 536870912.0-1073741824.0 mm	Fraction 1073741824.0-2147483648.0 mm	Fraction 2147483648.0-4294967296.0 mm	Fraction 4294967296.0-8589934592.0 mm	Fraction 8589934592.0-17179869184.0 mm	Fraction 17179869184.0-34359738368.0 mm	Fraction 34359738368.0-68719476736.0 mm	Fraction 68719476736.0-137438953472.0 mm	Fraction 137438953472.0-274877856944.0 mm	Fraction 274877856944.0-549755713888.0 mm	Fraction 549755713888.0-1099511427776.0 mm	Fraction 1099511427776.0-2199022855552.0 mm	Fraction 2199022855552.0-4398045711104.0 mm	Fraction 4398045711104.0-8796091422208.0 mm	Fraction 8796091422208.0-1759218284416.0 mm	Fraction 1759218284416.0-3518436568832.0 mm	Fraction 3518436568832.0-7036873137664.0 mm	Fraction 7036873137664.0-14073746275328.0 mm	Fraction 14073746275328.0-28147492550656.0 mm	Fraction 28147492550656.0-56294985101312.0 mm	Fraction 56294985101312.0-11258997022624.0 mm	Fraction 11258997022624.0-22517994045248.0 mm	Fraction 22517994045248.0-45035988090496.0 mm	Fraction 45035988090496.0-90071976180992.0 mm	Fraction 90071976180992.0-18014395236196.0 mm	Fraction 18014395236196.0-36028790472392.0 mm	Fraction 36028790472392.0-72057580944784.0 mm	Fraction 72057580944784.0-144115161889568.0 mm	Fraction 144115161889568.0-288230323779136.0 mm	Fraction 288230323779136.0-576460647558272.0 mm	Fraction 576460647558272.0-1152921291116544.0 mm	Fraction 1152921291116544.0-2305842582233088.0 mm	Fraction 2305842582233088.0-4611685164466176.0 mm	Fraction 4611685164466176.0-9223370328932352.0 mm	Fraction 9223370328932352.0-1844674065786464.0 mm	Fraction 1844674065786464.0-3689348131572928.0 mm	Fraction 3689348131572928.0-7378696263145856.0 mm	Fraction 7378696263145856.0-1475739252629172.0 mm	Fraction 1475739252629172.0-2951478505258344.0 mm	Fraction 2951478505258344.0-5902957010516688.0 mm	Fraction 5902957010516688.0-1180591402103376.0 mm	Fraction 1180591402103376.0-2361182804206752.0 mm	Fraction 2361182804206752.0-4722365608413504.0 mm	Fraction 4722365608413504.0-9444731216827008.0 mm	Fraction 9444731216827008.0-18889462433654016.0 mm	Fraction 18889462433654016.0-37778924867308032.0 mm	Fraction 37778924867308032.0-75557849734616064.0 mm	Fraction 75557849734616064.0-15111569946923212.0 mm	Fraction 15111569946923212.0-30223139893846424.0 mm	Fraction 30223139893846424.0-60446279787692848.0 mm	Fraction 60446279787692848.0-120892559575385696.0 mm	Fraction 120892559575385696.0-241785119150771392.0 mm	Fraction 241785119150771392.0-483570238301542784.0 mm	Fraction 483570238301542784.0-967140476603085568.0 mm	Fraction 967140476603085568.0-1934280953206171136.0 mm	Fraction 1934280953206171136.0-3868561906412342272.0 mm	Fraction 3868561906412342272.0-7737123812824684544.0 mm	Fraction 7737123812824684544.0-1547424762564936908.0 mm	Fraction 1547424762564936908.0-3094849525129873816.0 mm	Fraction 3094849525129873816.0-6189699050259747632.0 mm	Fraction 6189699050259747632.0-12379398100519495264.0 mm	Fraction 12379398100519495264.0-24758796201038990528.0 mm	Fraction 24758796201038990528.0-49517592402077981056.0 mm	Fraction 49517592402077981056.0-99035184804155962112.0 mm	Fraction 99035184804155962112.0-198070369608311924224.0 mm	Fraction 198070369608311924224.0-396140739216623848448.0 mm	Fraction 396140739216623848448.0-792281478433247696896.0 mm	Fraction 792281478433247696896.0-158456295686649539392.0 mm	Fraction 158456295686649539392.0-316912591373399078784.0 mm	Fraction 316912591373399078784.0-633825182746798157568.0 mm	Fraction 633825182746798157568.0-1267650365493596315136.0 mm	Fraction 1267650365493596315136.0-2535300730987192630272.0 mm	Fraction 2535300730987192630272.0-5070601461974385260544.0 mm	Fraction 5070601461974385260544.0-1014120292394877052108.0 mm	Fraction 1014120292394877052108.0-2028240584789754104216.0 mm	Fraction 2028240584789754104216.0-4056481169579508208432.0 mm	Fraction 4056481169579508208432.0-8112962339159016416864.0 mm	Fraction 8112962339159016416864.0-1622592467831803283728.0 mm	Fraction 1622592467831803283728.0-3245184935663606567456.0 mm	Fraction 3245184935663606567456.0-6490369871327213134912.0 mm	Fraction 6490369871327213134912.0-1298073974265442626824.0 mm	Fraction 1298073974265442626824.0-2596147948530885253648.0 mm	Fraction 2596147948530885253648.0-5192295897061770507296.0 mm	Fraction 5192295897061770507296.0-1038459179412341001456.0 mm	Fraction 1038459179412341001456.0-2076918358824682002912.0 mm	Fraction 2076918358824682002912.0-4153836717649364005824.0 mm	Fraction 4153836717649364005824.0-8307673435298728011648.0 mm	Fraction 8307673435298728011648.0-1661534687059756023296.0 mm	Fraction 1661534687059756023296.0-3323069374119512046592.0 mm	Fraction 3323069374119512046592.0-6646138748238754093184.0 mm	Fraction 6646138748238754093184.0-13292277496477088186368.0 mm	Fraction 13292277496477088186368.0-26584554992954176372736.0 mm	Fraction 26584554992954176372736.0-53169109985908352745472.0 mm	Fraction 53169109985908352745472.0-10633821971851670549096.0 mm	Fraction 10633821971851670549096.0-21267643943703341098192.0 mm	Fraction 21267643943703341098192.0-42535287887406682196384.0 mm	Fraction 42535287887406682196384.0-85070575774813364392768.0 mm	Fraction 85070575774813364392768.0-170141151549626728755536.0 mm	Fraction 170141151549626728755536.0-340282303099253457511072.0 mm	Fraction 340282303099253457511072.0-680564606198506915022144.0 mm	Fraction 680564606198506915022144.0-136112921239701383044428.0 mm	Fraction 136112921239701383044428.0-272225842479402766088856.0 mm	Fraction 272225842479402766088856.0-544451684958805532177712.0 mm	Fraction 544451684958805532177712.0-108890336991761106355424.0 mm	Fraction 108890336991761106355424.0-217780673983522212706848.0 mm	Fraction 217780673983522212706848.0-435561347967044425413696.0 mm	Fraction 435561347967044425413696.0-871122695934088850827392.0 mm	Fraction 871122695934088850827392.0-1742245391868177701654784.0 mm	Fraction 1742245391868177701654784.0-3484490783736355403309568.0 mm	Fraction 3484490783736355403309568.0-6968981567472710806619136.0 mm	Fraction 6968981567472710806619136.0-13937963134945421613238272.0 mm	Fraction 13937963134945421613238272.0-27875926269890843226476544.0 mm	Fraction 27875926269890843226476544.0-55751852539781686452953088.0 mm	Fraction 55751852539781686452953088.0-11150370507956373285806176.0 mm	Fraction 11150370507956373285806176.0-22300741015912746571612352.0 mm	Fraction 22300741015912746571612352.0-44601482031825493143224704.0 mm	Fraction 44601482031825493143224704.0-89202964063650986286449408.0 mm	Fraction 89202964063650986286449408.0-17840592812730173253288816.0 mm	Fraction 17840592812730173253288816.0-3568118562546034650657632.0 mm	Fraction 3568118562546034650657632.0-7136237125092068301315264.0 mm	Fraction 7136237125092068301315264.0-1427247425198413660263128.0 mm	Fraction 1427247425198413660263128.0-2854494850396827320524656.0 mm	Fraction 2854494850396827320524656.0-5708989700793654641049312.0 mm	Fraction 5708989700793654641049312.0-1141797940158730928219624.0 mm	Fraction 1141797940158730928219624.0-2283595880317461856439248.0 mm	Fraction 2283595880317461856439248.0-4567191760634923712878496.0 mm	Fraction 4567191760634923712878496.0-9134383521269847425756992.0 mm	Fraction 9134383521269847425756992.0-1826876704533969485513392.0 mm	Fraction 1826876704533969485513392.0-3653753409067938971026784.0 mm	Fraction 3653753409067938971026784.0-7307506818135877942053568.0 mm	Fraction 7307506818135877942053568.0-1461501363227175588410736.0 mm	Fraction 1461501363227175588410736.0-2923002726454351176821472.0 mm	Fraction 2923002726454351176821472.0-5846005452908702353642944.0 mm	Fraction 5846005452908702353642944.0-1169201090581740470725888.0 mm	Fraction 1169201090581740470725888.0-2338402181163480941451776.0 mm	Fraction 2338402181163480941451776.0-4676804362326961882903552.0 mm	Fraction 4676804362326961882903552.0-935360872465392376580708.0 mm	Fraction 935360872465392376580708.0-1870721744930784753161416.0 mm	Fraction 1870721744930784753161416.0-3741443489861569506322832.0 mm	Fraction 3741443489861569506322832.0-7482886979723139012645664.0 mm	Fraction 7482886979723139012645664.0-1496577395944627802529128.0 mm	Fraction 1496577395944627802529128.0-2993154791889255605058256.0 mm	Fraction 2993154791889255605058256.0-5986309583778511210116512.0 mm	Fraction 5986309583778511210116512.0-1197261916755702420223224.0 mm	Fraction 1197261916755702420223224.0-2394523833511404840446448.0 mm	Fraction 2394523833511404840446448.0-4789047667022809680892896.0 mm	Fraction 4789047667022809680892896.0-9578095334045619361785792.0 mm	Fraction 9578095334045619361785792.0-1915619066809123872357152.0 mm	Fraction 1915619066809123872357152.0-3831238133618247744714304.0 mm	Fraction 3831238133618247744714304.0-7662476267236495488426088.0 mm	Fraction 7662476267236495488426088.0-15324952534472910976852176.0 mm	Fraction 15324952534472910976852176.0-30649855068945821953704352.0 mm	Fraction 30649855068945821953704352.0-6129971013789164390740864.0 mm	Fraction 6129971013789164390740864.0-12259942027578327791481328.0 mm	Fraction 12259942027578327791481328.0-24519884055156655582962656.0 mm	Fraction 24519884055156655582962656.0-49039768110313311165853232.0 mm	Fraction 49039768110313311165853232.0-98079536220626622311706464.0 mm	Fraction 98079536220626622311706464.0-19615907241313344462341328.0 mm	Fraction 19615907241313344462341328.0-3923181448262668892666656.0 mm	Fraction 3923181448262668892666656.0-7846362896525337785333312.0 mm	Fraction 7846362896525337785333312.0-1569272579305067557066624.0 mm	Fraction 1569272579305067557066624.0-3138545158610135114133248.0 mm	Fraction 3138545158610135114133248.0-627709031722027022826656.0 mm	Fraction 627709031722027022826656.0-1255418063444054455653312.0 mm	Fraction 1255418063444054455653312.0-2510836126888108911133224.0 mm	Fraction 2510836126888108911133224.0-502167225377621782226648.0 mm	Fraction 502167225377621782226648.0-1004334450755235644453312.0 mm	Fraction 1004334450755235644453312.0-200866890151107128890664.0 mm	Fraction 200866890151107128890664.0-401733780302214257781328.0 mm	Fraction 401733780302214257781328.0-803467560604428515562656.0 mm	Fraction 803467560604428515562656.0-160693520120885730112532.0 mm	Fraction 160693520120885730112532.0-321387040241771460225664.0 mm	Fraction 321387040241771460225664.0-642774080483542920451312.0 mm	Fraction 642774080483542920451312.0-128554816096708584090264.0 mm	Fraction 128554816096708584090264.0-257109632193417168180528.0 mm	Fraction 257109632193417168180528.0-514219264386834336361056.0 mm	Fraction 514219264386834336361056.0-102843852873368667272112.0 mm	Fraction 102843852873368667272112.0-205687705746737334544224.0 mm	Fraction 205687705746737334544224.0-411375411493474669088448.0 mm	Fraction 411375411493474669088448.0-822750822986949338176896.0 mm	Fraction 822750822986949338176896.0-164550165973898676355576.0 mm	Fraction 164550165973898676355576.0-329100321947797352711152.0 mm	Fraction 329100321947797352711152.0-658200643895594705422304.0 mm	Fraction 658200643895594705422304.0-1316401287911189410844608.0 mm	Fraction 1316401287911189410844608.0-2632802575822378821689216.0 mm	Fraction 2632802575822378821689216.0-5265605151644757643378432.0 mm	Fraction 5265605151644757643378432.0-1053121030329515286756664.0 mm	Fraction 1053121030329515286756664.0-2106242060659030573513328.0 mm	Fraction 2106242060659030573513328.0-42124841213180601567266

Table 11. Total PCB in Stormwater and Precipitation

	Date/Time	SSC mg/L	Total PCB (sum of congeners)	Mono- Cl pg/L	Di-Cl pg/L	Tri-Cl pg/L	TE-Cl pg/L	Pe-Cl pg/L	Hx-Cl pg/L	Hp-Cl pg/L	Oc-Cl pg/L	No-Cl pg/L	De-Cl pg/L	SSC Total PCB pg/g	SSC Total PCB ng/g	Data Valid for All Uses	Rejected due to Data quality issues
Rio Grande @ Buckman	7/28/2011 19:06		722	0	548	141	33	0	0	0	0	0	0			Y	
Rio Grande @ Buckman	7/28/2011 19:56		247	9	0	104	75	51	5	3	0	0	0			Y	
Rio Grande @ Buckman	8/3/2011 18:09	9,100	403	13	102	96	34	54	49	36	15	4	1	44	0.04	Y	
Rio Grande @ Buckman	8/3/2011 18:59	5,900	204	11	36	74	15	13	28	16	8	4	0	35	0.03	Y	
Rio Grande @ Buckman	8/5/2011 17:54	2,000	1,747	0	226	116	255	320	414	242	126	39	9	874	0.87	Y	
Rio Grande @ Buckman	8/5/2011 18:44	2,900	34	6	3	25	0	0	0	0	0	0	0	12	0.01	Y	
Rio Grande @ Buckman	8/29/2011 5:06	11,000	846	66	439	202	30	62	33	24	0	0	0	77	0.08	N	
Rio Grande @ Buckman	8/29/2011 4:21	15,000	5,995	47	464	757	816	1,998	1,885	20	8	0	0	400	0.40	N	
Rio Grande @ Buckman	8/26/2011 21:04	1,100	1,054	32	421	304	80	60	105	39	6	8	0	958	0.96	N	
Rio Grande @ Buckman	8/26/2011 20:14	1,900	2,293	58	756	165	184	406	636	99	8	0	0	1,207	1.21	N	
Rio Grande @ Buckman (REG)	8/21/2011 18:41	32,000	1,074	31	94	410	205	156	91	72	16	0	0	34	0.03	N	
Rio Grande @ Buckman (WS)	8/21/2011 19:29	43,000	1,594	0	0	488	425	389	237	49	6	0	0	37	0.04	N	
Rio Grande @ Buckman (WS)	8/21/2011 20:19	20,000	2,495	0	174	218	393	983	591	99	11	11	14	125	0.12	N	
Rio Grande @ Buckman (WS)	9/4/2011 21:54	46,000	2,514	105	381	752	264	378	388	137	53	55	0	55	0.05	N	
Rio Grande @ Buckman (WS)	9/4/2011 22:44	22,000	847	34	94	296	9	70	78	28	23	14	0	29	0.03	N	
Rio Grande @ Buckman (REG)	9/4/2011 22:46	22,000	1,210	18	188	246	184	254	169	57	12	81	0	55	0.05	N	
Rio Grande @ Buckman (REG)	9/4/2011 21:55	46,000	5,519	159	420	913	380	1,510	1,569	471	54	43	0	120	0.12	N	
Rio Grande @ Buckman (REG)	9/7/2011 15:11	5,000	1,248	33	0	452	198	141	273	116	19	6	0	250	0.25	Y	
Rio Grande @ Buckman (REG)	9/7/2011 15:56	19,000	46,219	2,237	3,838	6,694	1,421	5,954	14,228	9,472	2,126	248	0	2,433	2.43	Y	
														0.40			
Rio Grande @ Otowi	8/21/2011 18:11	47,000	2,624	0	157	567	851	541	314	149	21	0	22	56	0.06	N	
Rio Grande @ Otowi	8/26/2011 19:40	830	4,968	194	3,293	1,278	102	73	20	7	0	0	0	5,985	5.99	N	
Rio Grande @ Otowi	9/4/2011 23:48	5,700	5,110	40	268	696	598	1,650	1,498	323	34	0	3	896	0.90	N	
E050	8/19/2011 18:49	1,200	29,239	0	0	223	710	4,732	12,085	9,285	1,999	170	38	24,366	24.37	N	
E050	8/22/2011 16:08	85,000	14,108	65	0	769	458	2,330	5,739	3,868	862	18	0	166	0.17	N	
E050	9/1/2011 18:38	220	3403	1	2	32	69	584	1891	824	0	0	0	15,468	15.47	Y	
E050	8/28/2011 2:55	110	2435	2	0	39	25	490	1148	651	79	0	0	22,137	22.14	Y	
E050	9/10/2011 2:10	500	39,760	0	0	0	271	7,008	18,242	12,309	1,749	182	0	79,520	79.52	Y	
E050	9/7/2011 14:10	2,800	21,872	48	337	465	502	4,241	9,642	5,637	890	83	26	7,811	7.81	Y	
E050	10/2/2011 18:06	6,300	67,746	151	663	1,577	1,778	15,957	28,297	15,550	3,059	424	289	10,753	10.75	Y	
E050	9/4/2011 20:58	140,000	6,109	34	0	292	149	1,299	2,348	1,688	286	0	14	44	0.04	Y	
Peralta Canyon	10/4/2011 19:57	30,000	39,052	2,881	4,490	16,310	1,861	5,874	5,227	1,756	463	190	0	1,302	1.30	Y	
Peralta Canyon	10/7/2011 19:29	670	1,027	0	13	426	111	330	147	0	0	0	0	1,532	1.53	Y	
Peralta Canyon	10/7/2011 20:09	840	1,040	19	110	364	138	342	63	3	0	0	0	1,238	1.24	Y	
Rio Grande above Alameda	8/13/2011 20:04	520	38,471	6	401	666	955	3,058	15,266	14,999	2,925	171	23	73,983	73.98	N	
Rio Grande above Alameda	8/17/2011 21:42	410	30,945	91	1,705	1,639	2,283	3,507	10,928	9,029	1,642	121	0	75,477	75.48	N	
Rio Grande above Alameda	8/21/2011 4:51	1,600	3,198	0	174	205	364	969	986	452	48	0	0	1,999	2.00	N	
Bandelier National Monument	7/27/2011		81,296	79	523	6,746	11,348	24,822	30,278	6,913	716	0	70			N	
Bandelier National Monument	8/10/2011		235	18	29	42	123	22	0	0	0	0	0			Y	
Bandelier National Monument	8/23/2011		13,564	3	114	1,164	2,024	4,985	4,675	525	74	0	0			N	
Bandelier National Monument	8/23/2011 15:00		323	0	0	0	323	0	0	0	0	0	0			Y	
Bandelier National Monument	9/6/2011 14:20		68	0	0	24	41	3	0	0	0	0	0			Y	
Los Alamos County Airport	8/9/2011		39	6	0	2	17	4	7	3	1	0	0			Y	

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Table 13 2012 Muck and Farm Soils Total PCB

	Total PCB (sum of congeners)	mg/kg	Mono-CB	Di-CB	Tri-CB	TE-CB	Pe-CB	Hx-CB	Hp-CB	Oc-CB	No-CB	De-CB	TEQ 2005 (ND=0)
Muck	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Peralta Berm 1	1128.71	1.13E-03	146	226	640	3.9	32.81	44.04	20.78	9.7	1.98	3.5	0.000338
Peralta Berm 3	854.25	8.54E-04	95	93	383.2	14.38	65.27	89	69.99	26.61	10.5	7.3	0.069769
Peralta 85 North	2443.47	2.44E-03	310	514	1306	8.5	53.32	69.23	46.9	20.02	5.1	110	0.049693
Peralta 85 South	354.64	3.55E-04	29	79	220	0	5.35	11.35	7.23	1.61	1.1	0	0.006339
Peralta Terrace A	734.85	7.35E-04	88	95.1	300	18.08	55.37	82.7	60.6	22.2	8.1	4.7	0.000537
Peralta Stream Bank	606.64	6.07E-04	60	120.9	350	3.5	20.05	29.99	18.8	1.4	0	2	0.000309
Nambe 1 East	155.04	1.55E-04	1.4	15	39	5.65	28.87	34.01	22.3	7.9	0.91	0	0.000463
Nambe 2 West	779.81	7.80E-04	94	142.5	351.3	15.5	48.14	62.08	49.71	11.47	1.2	3.9	0.012135
Rio Grande @ Sile	763.99	7.64E-04	97	156.7	422	3.7	20.36	32.37	16.6	8.95	3.87	2.4	0.000331
Rio Grande @ Santa Fe River	1361.38	1.36E-03	103	189.6	554.3	117.8	104.2	122.61	100.2	30.76	11.9	27	0.001283
Water Canyon Near Rio Grande	8448.05	8.45E-03	88	161	597.1	699.7	1030	2537.2	2689	572	47.4	27	0.011952
Farm Field Soils Irrigated with Black water													
Suina Field Composite	1004.22	1.00E-03	1.92	0	2.1	38.37	265	373.02	210.6	58.2	25	30	0.089638
Upper Pecos Field-2	73.46	7.35E-05	3.27	0	1.9	9.4	8.65	12.04	8.6	3.6	0	26	0.000164
Lower Pecos Field-1	80.3	8.03E-05	2.44	0	0.84	2.06	14.3	24.6	12.8	5.06	5.2	13	0.000288
Top of Upper Field @ Sile	222.6	2.23E-04	10.5	16	4.47	14.18	19.18	47.45	44.68	12.34	28.8	25	0.000483
Bottom of Upper Field @ Sile	254.47	2.54E-04	19.93	7.3	3.87	20.29	34.18	51.7	44.6	19.6	28	25	0.000408
Top of Lower Field @ Sile	578.73	5.79E-04	12.3	0	6.4	14.55	37.63	171.4	234.8	62.65	17	22	0.000648
Bottom of Lower Field @ Sile	580.61	5.81E-04	17.2	59	3.7	47.12	106.4	132.8	128.1	21.33	6	59	0.000849

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