From: Oliver, Jacques
To: John, Forrest
Subject: FW: NM Nutrients Kick-off call
Date: Thursday, December 12, 2013 12:19:34 PM

Forrest.

Email 2 of 2.

Jack.

From: Joseph, Seva, NMENV [mailto:seva.joseph@state.nm.us]
Sent: Saturday, July 20, 2013 2:57 PM
To: Jessup, Benjamin
Cc: John, Forrest; Dail, Bryan, NMENV; Oliver, Jacques; Santhiska Pather; Nelson, Russell; Reid, Daniel; Huey, Greg, NMENV
Subject: RE: NM Nutrients Kick-off call

Hello, It is good to see the benthic data set being used after all the work put into collecting and compiling it. I did notice the following issues.

Some of the samples are not included – I'll do a match and get a list of these, they could be samples without matching chem. It does not seem like to many. This could also be influenced by if you plan to use a cutoff date (we have data back to the mid-1980s) also if you are planning on limiting the sample collection methods?

It seem like the separate REMAP riffle and pool samples collected in the 1999-2001 were composited into a single reach wide sample, but the riffle and pool subsamples were not removed. So for a given site of this type, there is now 3 types of samples, riffle, pool and reachwide.

If you are planning to use the Hess/Surber samples, most up until the 2000's are composed of three replicates. James indicated that this may not be an issue for metric calculation but I want to be sure. For example:

28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Acentrella insignificans	5
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Arctopsyche grandis	23
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Atherix pachypus	2
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Brachycentrus	3
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Chironomidae	3
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Chloroperlidae	1
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Drunella grandis	15
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Oligophlebodes	2
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Pteronarcella badia	13
28RedRiv027.8	Red River	161	09/21/1988	0	Ben_01a	HessSurber	Rhithrogena robusta	2
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Acentrella insignificans	3
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Arctopsyche grandis	7
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Brachycentrus	2
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Chloroperlidae	1
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Drunella doddsi	1
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Drunella grandis	4
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Gordius	1
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Isogenoides elongatus	4
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Pteronarcella badia	25
28RedRiv027.8	Red River	161	09/21/1988	1	Ben_01a	HessSurber	Rhithrogena robusta	1
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Acentrella insignificans	3
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Arctopsyche grandis	5
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Brachycentrus	1
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Chloroperlidae	5
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Dicranota	2
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Drunella grandis	17
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Heterlimnius corpulentus	1
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Hexatoma	1
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Isogenoides elongatus	2
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Pteronarcella badia	16
28RedRiv027.8	Red River	161	09/21/1988	2	Ben_01a	HessSurber	Rhithrogena robusta	5

I will go over your list of benthic sample the week after next and note recommended actions.

Thank you,

Seva Joseph

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505-827-0573

From: Joseph, Seva, NMENV
Sent: Friday, July 19, 2013 5:40 PM
To: 'Jessup, Benjamin'; john.forrest@epa.gov; Dail, Bryan, NMENV; Oliver, Jacques (Oliver.Jacques@epa.gov); Santhiska Pather; Nelson, Russell; Reid, Daniel
Cc: Huey, Greg, NMENV
Subject: RE: NM Nutrients Kick-off call

Hello, I had a chance to review the site and data list and have added information on the attached spreadsheet. I'll send another email addressing the benthic macro data.

I noted the sites with long term DO data by putting the year deployed in the SondeSite column. We are working on the DO metrics for these and should have them in a week or 2.

For the ChemBug mismatch sites:
I noticed that many of the benthic sites without chem data actually matched chem sites but had different ID's. This is an artifact of our long running data compilation effort. We created the id's for the benthic sites then these were either corrected (more accurate river kilometer determination) or recreated with slightly different ID for the chem data. These are noted as a match in the Valid site column.
Some of the chem data that was collected for the 1999 REMAP project was not input into our database and is attached. It should all have been input into the Corvallis EMAP/SWIM database along with the bugs and hab but I am not sure if all that transferred.
Some samples were parts of separate studies where nutrient variable were not collected (darker blue highlight) and a few I believe there should be chem data for that I will try to track down (yellow highlight). I am check with our DOE oversight staff (Ralph) to see if they collected any nutrient vaiables and let you know on those.

I agreed with most of the Valid Site designations and GIS priorities with the following exceptions: I am not sure why the Canadian sites were not included. We had considered including it in the rivers at one time, but determined that is what always wadable. I agree that we should not include the Rio Grande and Lower Pecos as the GIS requirement would be large and the ecology of these systems is driven by water diversion and delivery and salinity. However, I would like to include the following 14 sites that were formerly classified as rivers as I believe they will add to the analysis by incorporation a wider range of systems. This will aid in the waterbody classification and further our development of thresholds with a broader applicability.

MLOC_ID	ID	MLOC_NAME	ValidSite	GISPriority	BugSite	ChemSite	SondeSite	
06Canadi232.6	516	Canadian River at NM 419 near Sanchez - 06Canadi232.6	good	2_NMED		06Canadi232.6	2006	good larger wadable plains site
06Canadi305.0	518	Canadian River @ Mills Canyon - 06Canadi305.0	good	1_NMED	can provide	06Canadi305.0		good larger wadable plains site
09Canadi144.5	554	Canadian River at NM 104 at milemarker 88 - 09Canadi144.5	good	2_NMED		09Canadi144.5		good larger wadable plains site
28RFerna031.7	46	Rio Fernando de Taos at Hwy 64 bridge - 28RFerna031.7	good	6_NMED	can provide	28RFerna031.7		good non-RG stream site
28RGRanc000.2	47	Rio Grande del Rancho abv Rio Pueblo de Taos - 28RGRanc000.2	good	6_NMED	can provide	28RGRanc000.2		good non-RG stream site
28RGRanc015.6	49	Rio Grande del Rancho at Hwy 518 bridge - 28RGRanc015.6	good	6_NMED	can provide	28RGRanc015.6		good non-RG stream site
29RChama038.3	76	Rio Chama at Hwy 554 - 29RChama038.3	good	2_NMED		29RChama038.3	29RChama038.3	river sites with good data and stream characteristics
29RChama079.5	78	Rio Chama above Abiquiu Reservoir at USGS gage - 29RChama079.5	good	2_NMED	can provide	29RChama079.5	29RChama079.5	river sites with good data and stream characteristics
29RChama082.8	670	Rio Chama 3 miles below Rio Gallina	good	2_NMED		29RChama082.8		river sites with good data and stream characteristics
29RChama143.8	1006	RIO CHAMA 2 MILESBLW OF LA PUENTE GAGE * 29RChama143.8	good	1_NMED	29RChama143.8	29RChama143.8	2006, 2010	river sites with good data and stream characteristics
30SantaF052.4	102	Santa Fe River below Cerro Gordo RD - 30SantaF052.4	good	2_NMED	can provide	30SantaF052.4		
64SanJua113.5	341	San Juan River at McGee Park - 64SanJua113.5	good	3_NMED	can provide	64SanJua113.5	64SanJua113.5	river sites with good data and stream characteristics
64SanJua126.2	218	SAN JUAN RIVER AT BLOOMFIELD BRIDGE - 64SanJua126.2	good	2_NMED		64SanJua126.2		river sites with good data and stream characteristics
64SanJua144.8	219	SAN JUAN RIVER AT BRIDGE NEAR BLANCO - 64SanJua144.8	good	2_NMED	can provide	64SanJua144.8	64SanJua144.8	river sites with good data and stream characteristics
64SanJua162.8	927	SAN JUAN RIVER BLW GAGE STATION - 64SanJua162.8	good	2_NMED		64SanJua162.8		river sites with good data and stream characteristics
66SanJua100.2	223	SAN JUAN RIVER AT BISTI BRIDGE - 66SanJua100.2	good	2_NMED		66SanJua100.2		river sites with good data and stream characteristics
67SanJua088.1	229	San Juan River at Lions Park near Kirtland - 67SanJua088.1	good	2_NMED	can provide	67SanJua088.1		river sites with good data and stream characteristics
77Diamon033.2	234	Main Diamond Creek at Trail 42 - 77Diamon033.2	good	2_NMED	can provide	77Diamon033.2		
77Gilari088.0	961	Gila River 300 meters above Turkey Creek - 77Gilari088.0	good	2_NMED	can provide	77Gilari088.0	2011	river sites with good data and stream characteristics
78GilaR087.7	967	Gila River @ NM Hwy 211 Bridge - 78GilaR087.7	good	2_NMED		78GilaR087.7		river sites with good data and stream characteristics
78GilaRi025.5	1466	Gila River below Blue Creek at USGS gage	good	2_NMED	can provide	78GilaRi025.5		(1466 = 1467) river sites with good data and stream characteristics
78GilaRi026.1	1467	Gila River @ Red Rock	good	1_NMED		78GilaRi026.1		(1466 = 1467) river sites with good data and stream characteristics
78GilaRi069.2	242	Gila River below Mangas Creek - 78GilaRi069.2	good	2_NMED		78GilaRi069.2	78GilaRi069.2	river sites with good data and stream characteristics
80TroutC009.4	374	Trout Creek near FR 220 - 80Trout009.4	good	6_NMED		80TroutC009.4	2011	good reference site

Sorry to pass this on and then run, but if you will email me our questions and input I will respond when I return on the 30th.

<< File: NMED_DataReview20130719 F.xlsx >> << File: REMAP Chem.xlsx >>

Thank you,

Seva Joseph
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-----Original Appointment-----
From: Jessup, Benjamin [mailto:benjamin.jessup@tetratech.com]
Sent: Monday, July 15, 2013 7:11 AM
To: Joseph, Seva, NMENV; john.forrest@epa.gov; Lemon, Shelly, NMENV; Dail, Bryan, NMENV; Oliver, Jacques (Oliver.Jacques@epa.gov); Santhiska Pather; Nelson, Russell; Reid, Daniel
Subject: NM Nutrients Kick-off call
When: Tuesday, July 16, 2013 12:00 PM-1:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Live Meeting

Hi All;
This update invites 2 new participants from EPA Region 6 and includes an agenda, pasted below.
We will reconnect with each other and the past work, as well as plan for future tasks. The first general task is data gathering and QC.
Ben

Please use the call in number only – no webcast required.

Toll-free: +1-8666925721
Participant Code: 6765977

Agenda: Focus on task 1 - data organization

1. GIS mapping and analysis of reference sites.
2. Data management - one MS Access database to manage the different datasets.
   Reconcile site naming conventions to match more data types, especially for earlier samples.
3. Construction of a data dictionary for biological data sets.
4. Comparability analysis of data and methods across different data sets.
5. Organization of diel DO data and data exchange with Tetratech.
6. Consideration of seasonality in future analyses.
7. More detailed characterization of data sets.
8. Compile supporting scientific literature on a rolling basis.

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BENJAMIN JESSUP has invited you to attend an online meeting using Microsoft® Office Live Meeting service.
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