From:	Horton, Michael
To:	Norman, Kate
Cc:	Tara Nicolaysen; Lief Wiechman
Subject:	Re: Kate meet Lief, Lief, Kate
Date:	Tuesday, November 05, 2013 2:14:22 PM
Attachments:	ProjectTypeWorkTypeCompare09142011.xls

This is very interesting. Is it being cross-walked with the TAILS activity list? Here's where we are right now (also very preliminary). Perhaps we can look at merging them?

Mike

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Information, Planning, and Conservation (IPaC)

On Tue, Nov 5, 2013 at 9:41 AM, Norman, Kate <kate_norman@fws.gov> wrote:

> I asked Lief if I could share this with you and he said "yes" so long as I emphasize like crazy that this is draft, VERY much not ready for distribution, and will likely change.
>
> It seems a bit like what he's doing with Activities/Subactivities is similar to what you and Tara have done with the IPaC work. I don't know how far along they are with this process, but it occurred to me that we might be able to share some resources (e.g. the list of activities) so - MAYBE - we can all use the same language. I'd love for this to be integrated into ECOS some day.
>
> Thoughts?
>
> K
>
> ---------- Forwarded message ----------
> From: **Wiechman, Lief** <lief_wiechman@fws.gov>
> Date: Fri, Nov 1, 2013 at 5:54 PM
> Subject: Re: Kate meet Lief, Lief, Kate
> To: "Norman, Kate" <kate_norman@fws.gov>
>
> Hi Kate,
>
> Here's a draft version of the metrics table we've worked on... It'll change after next week's discussions and I can provide you with updated versions if that helps. This is still under

review from other agencies and the states.
Also attached is the 'in-progress' draft of the definitions.

LW

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On Fri, Nov 1, 2013 at 1:48 PM, Norman, Kate <kate_norman@fws.gov> wrote:

Hi Lief!

K

P.S. I don't normally look like a zombie.

On Fri, Nov 1, 2013 at 3:46 PM, DeBerry, Drue <drue_deberry@fws.gov> wrote:

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L1 General Category	L2 Project Type
used to group similar Project Types so that users can quickly and easily find their Project Type.	**An industry and enterprise (HOW DO WE DEFINE THIS?)**
Agriculture	
	Crop Production (TAILS would say Crop Planting, Production, Maintenance
	Confined Animal Feeding Operations (CAFO)
	Greenhouse, Nursery, and Floriculture
	Ranching and Grazing (separate out as two project types. Lots of activities with Grazing. Ranching seems to be a little hard to justify including, except in the SW, livestock ponds and pools are often the only home that T &E species have left…)
Aquaculture	
	Open Net Pens or Cages
	Ponds
	Raceways
	Recirculating Systems
	Shellfish Culture
Commercial Fishing	
	Commercial Fishing
Communication	(ESRI)
	Cell or communications tower including access roads
	Antenna and/or communication dish installation
	Fiber optic cable installation (below ground)
	Other telephone or communication line installation (above ground)
Development	
	Residential
	Industrial

	Government (Military, Federal, State, Municipal, Tribal)
	Commercial and Institutional
Disaster Response	
	Drought
	Earthquake
	Flood
	Hazardous Material
	Oil Spill
	Storm
	Tsunami
	Vector-Borne Disease
	Volcanic Activity
	Wildfire
Forestry and Logging	
	Timber harvesting (log landings and road construction)
	Forest Management
Homeland Security and Military Operations	
	Military Operations, Maneuvers
	Border Patrol Operations
Manufacturing	
	Manufacturing
Oil, Gas and Mining	*(Note: May want to look at using ESRI's Secondary list for Project Types instead)* *I do like some of these - maybe we can merge TAILS and ESRI and add in our own…*
Is Leasing a Project Type?	Onshore Exploration
	Offshore Exploration
	Surface Extraction/Production
	Onshore Subsurface Extraction/Production
	Offshore Subsurface Extraction/Production
	Shutdown and Abandonment
	Mining Reclamation
Oil and Gas	
	Gas or oil Exploration
	Gas or oil Drilling /Extraction

Can we merge Oil and Gas with other Mining (since it is all mining?)	Well Completion Well Production Refining (but this could be more than just oil and gas - see comments below) Pipeline Construction and Operations Pipeline Decommission Well Shutdown and Abandonment
Outdoor Recreation	
I don't know if we need to have each of these split into construction and maintenance.	Trails and Trailheads Campgrounds, parking lots, restrooms Resorts and lodges Shooting areas and Hunt Clubs Ski areas, Snowmobile trails and other Winter Recreation Areas Horse Riding and Stables OHV Recreation Boat docks and boat access areas (associated facilities, parking, ramps)
Should we just lump all these here and get rid of the Urban Greenspaces category?	Urban Greenspace (golf courses, cemetaries, playground, etc.)
Energy Production (Power Generation)	
	Hydroelectric Power Generation Coal Power Generation Natural Gas Power Generation Nuclear Power Generation Solar Power Generation Geothermal Power Generation Onshore Wind Power Generation Offshore Wind Power Generation Other Power Generation
Energy Transfer and Storage	
	Power line/electric line

	Substation Pipeline (gas/oil) Tank (gas/oil) Pipeline Decommission
Habitat Conservation and Restoration	
	Habitat Acquisition Habitat Creation Conservation Easement/ROW Habitat Preservation Habitat Restoration/Enhancement
Transportation and Infrastructure	I liked ESRI's breakdown - which I see now that you followed - :-)
	Road or Highway - New Construction Road or Highway Safety and Maintenance (painting, repaving, etc.) Road Expansion or Modification (paving or widening dirt, adding runaway truck ramps or pull offs) Bridge - New Construction Bridge Safety and Maintenance Bridge Expansion or Modification Roadway Facility - New Construction (rest areas, maintenance areas) Existing Roadway Facility Maintenance Railroad - New Construction (freight and passenger) Railroad Maintenance Airport - New Construction (runways, terminals, etc.) Airport Maintenance
Urban Greenspace	
	cemetary and allotments golf courses playground and playing fields Other greenspaces
Waste Management (Use ESRI's Waste Transfer, Treatment, and Disposal?)	

	Liquid Waste/Effluent (sewage treatment plant, sewer line, etc.) Solid Waste Disposal (landfill, incinerator, recycling facility)
Water Use, Transfer, and Channel Activities	
I'm tired. I am done for now. Didn't do this Category.	Water Supply - Well (groundwater extraction or recharge) Well (monitoring or test drilling: no water production) Stream Surface (extraction) Canal/Irrigation Recharge ponds Dentention Basin Impoundment (flood control, levee, dam) Water Storage (tanks and small reservoirs) Water Diversion/Channelization Dredging: reservoir/channel maintenance Water supply or delivery. Water delivery and supply line (operated by municipality or water company)
Other Project Types Recovery - I think these belong under the Habitat conservation and protection, enhancment and whatnot category	Doesn't really have anything to do with Habitat. Maybe we have a "Recovery" or "Recovery Actions" Project Type
	Surveys and Research Non-Research salvage/handling Captive Breeding

Other Project Types per TAILS:
REFINING
Refining - biodiesel
Refining - ethanol
Refining - Oil
Refining - Other - Energy
Refining - Other - non energy

DAM - 3 categories: MMRU, and
Operations, and Removal - see TAILS

DREDGE/EXCAVATION
FILL

L2b Project Descriptor

Intended for Field Office use only as a way to further describe or refine the Project Type or overall method. (a few examples have been included**)**

Farming operations (crops) [ESRI]

Do we really need to separate? I'm not sure most users will know the difference.

Don't really like these. Maybe we should look at open, semi-close and closed (freshwater and marine?) Or, just Aquaculture?

Replaced Clear cutting and different harvest methods.

I don’t know that the type of material is that important.
Couldn't that just be a Project Descriptor?

TAILS uses Coal, Other Energy and Non Energy for each of these)

Off-Shore, On-Shore (is this the right place for this? - Yes, but needs it's own pr

Do we need Refining? Is it a "manufacturing" process that we don't consult on anyway?

MOVED to Energy Transfer and Storage

Are we assuming this only cover the actual Generation of power since the construction of the plant would be covered under "industrial development"? What about modifications/expansion? Is that covered here?

TAILS includes Tidal Power Gen, Wave power gen?

Do we get Tidal or Wa

TAILS uses MMRU - Maint/Mod/Replace/Upgrade

Combine with Recreation?

I went with ESRI on this complete list. However, I didn't really like it.

Water Withdrawl/Depletion

Storm water discharge?

No inclusion of wastewater here - include in waste mgt?

Recovery or?? Project Type?
Recovery or?? Project Type?
Recovery or?? Project Type?

roject types: Offshore Oil Exploration, Offshore oil operations...)

ve power often? Should we just lump them under "Other"?