



ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.

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February 7, 2013

Letter to File

**RE: REFERENCE FROM ENVIRONMENTAL IMPACT STATEMENT
ARIZONA GAME AND FISH DEPARTMENT 2012**

I sent several emails to various employees at the Arizona Game and Fish Department (AGFD) requesting data for a roadkill and culvert study that was conducted for State Route 83 within the biological resources analysis area for the proposed Rosemont Copper Project. In addition, Larry Jones, Coronado National Forest, requested this same information from AGFD via email on October 17, 2012. After a series of emails, Michael Ingraldi, AGFD Project Supervisor, emailed me the attached excel spreadsheet containing the requested information.

Respectfully,

A handwritten signature in blue ink that reads 'Angela M. D. Barclay'. The signature is written in a cursive, flowing style.

Angela M.D. Barclay, M.S.
Senior Natural Resource Specialist

Culvert ID	Season	Session	Road Kill Session	Road Name	Road Type	Culvert Type
136	Summer	2	Prep	East Marsh Station	Two Lane	Box
77	Summer	2	Prep	East Marsh Station	Two Lane	36
136	Summer	2	RK2	East Marsh Station	Two Lane	Box
136	Summer	2	RK2	East Marsh Station	Two Lane	Box
136	Fall	5	Prep	East Marsh Station	Two Lane	Box
1	Fall	5	RK1	East Marsh Station	Two Lane	Box
107	Fall	5	RK1	East Marsh Station	Two Lane	36
77	Fall	5	RK2	East Marsh Station	Two Lane	24
77	Fall	5	RK2	East Marsh Station Rd.	Two Lane	24
78	Spring	5	Prep	East Marsh Station Road	TLH	24
136	Spring	5	Prep	East Marsh Station Road	TLH	Box
77	Spring	5	RK1	East Marsh Station Road	TLH	24
77	Spring	5	RK1	East Marsh Station Road	TLH	24
80	Spring	5	RK2	East Marsh Station Road	TLH	24
139	Summer	2	Prep	SR83	Two Lane	Box
139	Summer	2	Prep	SR83	Two Lane	Box
139	Summer	2	Prep	SR83	Two Lane	Box
138	Summer	2	Prep	SR83	Two Lane	Box
137	Summer	2	Prep	SR83	Two Lane	Box
81	Summer	2	Prep	SR83	Two Lane	24
140	Summer	2	Prep	SR83	Two Lane	Box
81	Summer	2	RK2	SR83	Two Lane	24
140	Fall	5	Prep	SR83	Two Lane	Box
140	Fall	5	Prep	SR83	Two Lane	Box
140	Fall	5	Prep	SR83	Two Lane	Box
139	Fall	5	Prep	SR83	Two Lane	Box
139	Fall	5	Prep	SR83	Two Lane	Box
139	Fall	5	Prep	SR83	Two Lane	Box
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
81	Fall	5	Prep	SR83	Two Lane	24
138	Fall	5	Prep	SR83	Two Lane	Box
138	Fall	5	Prep	SR83	Two Lane	Box
138	Fall	5	Prep	SR83	Two Lane	Box
140	Spring	5	Prep	SR83	TLH	Box
140	Spring	5	Prep	SR83	TLH	Box
139	Spring	5	Prep	SR83	TLH	Box
138	Spring	5	Prep	SR83	TLH	Box
138	Spring	5	RK1	SR83	TLH	Box

Date	Observers	Start Time	End Time	OBS #	UTM E (NAD27)	UTM N (NAD27)	Guild
6/22/2009	DC, CW	11:26	11:35	1	532780	3541365	Avian
6/22/2009	DC, CW	9:48	9:55	1	533178	3541638	Lizard
6/29/2009	JE	5:55	6:12	1	532892	3541383	Small Mammal
6/29/2009	JE	5:55	6:12	2	532915	3541396	Lizard
10/26/2009	JE, WC	9:19	9:26	1	532907	3541395	Tortoise
10/29/2009	JE, CW	9:44	9:52	1	532899	3541383	Avian
10/29/2009	JE, CW	10:19	10:23	1	530990	3540620	Small Mammal
11/2/2009	WC, CB	10:08	10:14	1	533152	3541601	Small Mammal
11/2/2009	WC, CB	10:08	10:14	1	533152	3541601	Small Mammal
4/27/2010	JE, CB	13:07	13:12	1	532680	3541280	Tortoise
4/27/2010	JE, CB	13:57	14:02	1	532924	3541408	Avian
4/30/2010	JE, WC	12:38	12:43	1	533162	3541610	Avian
4/30/2010	JE, WC	12:38	12:43	2	533134	3541581	Lizard
5/4/2010	WC, CB	10:38	10:43	1	354958	3543066	Lizard
6/23/2009	JE, DC	10:50	11:03	1	531471	3535020	Small Mammal
6/23/2009	JE, DC	10:50	11:03	2	531480	3535003	Lizard
6/23/2009	JE, DC	10:50	11:03	3	531480	3534994	Small Mammal
6/23/2009	JE, DC	12:53	13:02	1	530172	3538718	Avian
6/23/2009	JE, DC	15:10	15:15	1	466299	3548086	Unknown
6/23/2009	JE, DC	8:07	8:15	1	531145	3535951	Lizard
6/23/2009	JE, DC	9:30	9:44	1	531667	3534459	Small Mammal
6/30/2009	DC	5:08	5:13	1	531156	3535935	Unknown
10/27/2009	WC, CW	7:37	7:46	1	531670	3534452	Lizard
10/27/2009	WC, CW	7:37	7:46	2	531682	3534413	Small Mammal
10/27/2009	WC, CW	7:37	7:46	3	531689	3534402	Small Mammal
10/27/2009	WC, CW	8:34	8:37	1	531483	3534970	Small Mammal
10/27/2009	WC, CW	8:34	8:37	2	531491	3534982	Lizard
10/27/2009	WC, CW	8:34	8:37	3	531498	3534956	Small Mammal
10/27/2009	WC, CW	9:19	9:28	1	531126	35636006	Snake
10/27/2009	WC, CW	9:19	9:28	2	531127	3536002	Lizard
10/27/2009	WC, CW	9:19	9:28	3	531134	3536003	Lizard
10/27/2009	WC, CW	9:19	9:28	4	531129	3535992	Lizard
10/27/2009	WC, CW	9:19	9:28	5	531135	3535993	Lizard
10/27/2009	WC, CW	9:19	9:28	6	531151	3535931	Lizard
10/27/2009	WC, CW	9:19	9:28	7	531153	3535929	Snake
10/27/2009	WC, CW	10:15	10:22	1	530172	3538713	Amphibian
10/27/2009	WC, CW	10:15	10:22	2	530176	3538726	Small Mammal
10/27/2009	WC, CW	10:15	10:22	3	530173	3538927	Snake
4/27/2010	JE, CB	8:22	8:30	1	531685	3534409	Lizard
4/27/2010	JE, CB	8:22	8:30	2	531693	3534406	Lizard
4/27/2010	JE, CB	9:24	9:32	1	531464	3535035	Lizard
4/27/2010	JE, CB	11:26	11:35	1	530170	3538730	Small Mammal
4/30/2010	JE, WC	6:43	6:50	1	530195	3538671	Small Mammal

Family	Genus	Species	Location
Cathartidae	Cathartes	avra	ROW
Teiidae	Aspidozelis	tigris	R
Leporidae	Sylvilagus	audubonii	R
Teiidae	Aspidozelis	uniparens	R
Testudinidae	Gopherus	agassizii	S
Cathartidae	Cathartes	aura	S
Muridae	Neotoma	albigula	R
Notiosorex	crawfordii		R
Soricidae	Notiosorex	crawfordii	R
Testudinidae	Gopherus	agassizii	Shoulder
			Shoulder
Caprimulgidae	Phalaenoptilus	nuttallii	Shoulder
Phrynosomatidae			Road
Teiidae	Aspidozelis		Road
			R
Iguanidae	Phrynosoma		R
			R
			R
			R
Iguanidae	Uta	Stansburiana	R
			R
			R
			R
			R
			R
			R
			R
Muridae	Neotoma	albigula	R
			R
			R
			R
Phrynosomatidae	Phrynosomata	solare	R
Teiidae	Aspidozelis		R
			R
Colubridae	Pituophis	catenifer	R
			R
			R
Colubridae	Pituophis	catenifer	R
Phrynosomatidae	Cophosaurus	texanus	Road
Phrynosomatidae			Road
Phrynosomatidae	Cophosaurus	texanus	Road
Leporidae	sylvilagus		Road
			Road

Comments

Turkey Vulture

old. all brown vulture

Strong spotting on head, bright white belly
Rabbit

white underside
Outside of 50 m section

mottled back