

ATTACHMENT 1

YEAR 2 MONITORING STATUS MEMO

WEMO OHV Protocol Monitoring

ROUTES MONITORED YEAR 2:

Pursuant to Section 4.1 of the 2013 Protocol Monitoring Plan, for Year 2 of the first 3-year monitoring cycle, commencing August 2014, BLM completed field inspection and data recordation on 117.43 miles of field sample routes, and 51.68 miles of aerial sample routes. Table 1 lists the routes field monitored and Table 2 lists the routes aerially monitored in Year 2. These routes are depicted on Attachment 2, Year 2 Protocol Monitoring Map, and color-coded for field versus aerial monitoring.

Table1. Routes Field Monitored in Year 2				
Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues/Info
6/12/2015	Cronese Lake	CL8315	28.17	Numerous authorized right-of-way routes to power poles are recommended to be included in the designated network.
6/12/2015	Cronese Lake	CL8105	1.71	
6/11/2015	Cronese Lake	CL8203	2.52	
5/1/2015	Darwin	SE24	1.22	
5/1/2015	Darwin	SE73	3.38	SE4 cross route naturally rehabilitating. Closure is recommended.
12/23/2014	El Mirage	EM4694	8.43	
6/26/2015	El Paso	EP15	22.52	
2/12/2015	El Paso	EP647	4.15	
6/19/2015	Jawbone	SC5	9.47	
6/19/2015	Jawbone	SC99	1.38	Correct mileage of SC99 from 2.44 miles to 1.38 miles, as 1.38 miles is visible on the ground and being used.
6/18/2015	Johnson Valley	NR8465	8.12	
2/11/2015	Joshua Tree	JT1933	2.45	
2/11/2015	Joshua Tree	JT1957	9.51	
2/11/2015	Middle Knob	MK1	0.97	

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Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues/Info
3/4/2015	Middle Knob	MK94	3.25	
2/11/2015	Middle Knob	MK110	3.66	
2/11/2015	Middle Knob	MK121	0.09	
2/11/2015	Middle Knob	MK122A	0.20	
2/12/2015	Needles South	NS6740	4.51	
2/12/2015	Needles South	NS7813	0.52	
Year 2 total miles field monitored			117.43	
Total Year 1 and Year 2 miles field monitored			231.58	

Table 2. Routes Monitored via Aerial Photos in Year 2				
Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues
7/16/2015	Rattlesnake Canyon	RC3443	0.35	
7/16/2015	Ord Mountains	OM6602	0.66	
7/16/2015	Broadwell Lake	BL8685	0.16	
7/16/2015	Broadwell Lake	BL8592	0.33	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.05	
7/16/2015	Broadwell Lake	BL8685	0.43	
7/16/2015	Sierra	SE296	0.81	
7/16/2015	Ridgecrest	RC12	0.12	Existing incursion
7/16/2015	Sierra	SE296	0.13	
7/16/2015	Broadwell Lake	BL8685	0.07	Existing incursion
7/16/2015	Coolgardie	CG7274	0.31	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.14	
7/16/2015	Ord Mountains	OM7350	0.13	Existing incursion
7/16/2015	Juniper Flats	JF3384	0.07	Existing incursion
7/16/2015	Pisgah Crater	PC8630	0.34	
7/16/2015	Broadwell Lake	BL8685	0.17	
7/16/2015	Broadwell Lake	BL8685	0.09	Existing incursion

Table 2. Routes Monitored via Aerial Photos in Year 2				
Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	Broadwell Lake	BL8685	0.16	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.07	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Ridgecrest	RC12	0.29	
7/16/2015	Broadwell Lake	BL8685	0.24	Existing incursion
7/16/2015	Juniper Flats	JF3384	0.02	
7/16/2015	El Paso	EP729	0.54	
7/16/2015	Rattlesnake Canyon	RC3443	0.01	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Broadwell Lake	BL8685	0.16	
7/16/2015	El Paso	EP249	1.74	
7/16/2015	Broadwell Lake	BL8685	0.01	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Pisgah Crater	PC8630	1.09	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.11	Existing incursion
7/16/2015	Ridgecrest	RC12	0.02	
7/16/2015	Broadwell Lake	BL8685	0.20	
7/16/2015	Pisgah Crater	PC8630	0.21	
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	El Paso	EP249	1.01	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.16	
7/16/2015	Wonder Valley	WV1945	3.07	
7/16/2015	Ord Mountains	OM7350	0.16	
7/16/2015	Broadwell Lake	BL8685	0.22	
7/16/2015	Cronese Lake	CL8315	0.01	
7/16/2015	Broadwell Lake	BL8685	0.10	
7/16/2015	Ord Mountains	OM7350	0.07	
7/16/2015	Wonder Valley	WV1945	0.46	
7/16/2015	Broadwell Lake	BL8685	0.04	

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7/16/2015	Broadwell Lake	BL8685	0.09	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Broadwell Lake	BL8685	0.11	
7/16/2015	Broadwell Lake	BL8685	0.08	
7/16/2015	Broadwell Lake	BL8685	0.05	
7/16/2015	Rattlesnake Canyon	RC3443	0.01	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Broadwell Lake	BL8685	0.06	
7/16/2015	Black Mountain	BM7497	0.89	
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	Broadwell Lake	BL8685	0.23	
7/16/2015	Ord Mountains	OM7350	0.03	
7/16/2015	Cronese Lake	CL8335	0.02	
7/16/2015	Broadwell Lake	BL8685	0.11	
7/16/2015	Afton Canyon	AC8712	1.19	
7/16/2015	Broadwell Lake	BL8685	0.03	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Wonder Valley	WV1948	0.19	
7/16/2015	El Paso	EP631A	0.28	
7/16/2015	Broadwell Lake	BL8685	0.14	Existing incursion
7/16/2015	Ridgecrest	RC12	0.16	
7/16/2015	Broadwell Lake	BL8685	0.01	
7/16/2015	Broadwell Lake	BL8685	0.05	
7/16/2015	Cronese Lake	CL8335	0.64	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	El Paso	EP205	0.31	
7/16/2015	Red Mountain	RM0163	0.24	Existing incursion
7/16/2015	Pisgah Crater	PC8630	0.48	
7/16/2015	Fremont Peak	FP6305	0.73	
7/16/2015	Broadwell Lake	BL8685	0.13	
7/16/2015	Broadwell Lake	BL8685	0.07	

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Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues
7/16/2015	Broadwell Lake	BL8685	0.07	
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	Ord Mountains	OM7350	0.08	
7/16/2015	Broadwell Lake	BL8592	0.03	
7/16/2015	Broadwell Lake	BL8685	0.33	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Broadwell Lake	BL8685	0.10	
7/16/2015	Juniper Flats	JF3384	0.37	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	Wonder Valley	WV1948	0.29	
7/16/2015	Ord Mountains	OM7350	0.11	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.15	
7/16/2015	Ord Mountains	OM7350	0.05	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Ord Mountains	OM7350	0.07	
7/16/2015	Ord Mountains	OM7350	0.03	
7/16/2015	Ord Mountains	OM7350	0.23	
7/16/2015	Broadwell Lake	BL8685	0.02	
7/16/2015	Broadwell Lake	BL8592	0.16	
7/16/2015	Pisgah Crater	PC8630	0.55	
7/16/2015	Broadwell Lake	BL8685	0.03	
7/16/2015	Broadwell Lake	BL8685	0.05	
7/16/2015	Darwin	SE70	3.34	
7/16/2015	Ridgecrest	RC12	0.13	
7/16/2015	Broadwell Lake	BL8685	0.21	
7/16/2015	Broadwell Lake	BL8685	0.18	
7/16/2015	Broadwell Lake	BL8685	0.20	
7/16/2015	Darwin	SE71	0.54	Existing incursion
7/16/2015	Broadwell Lake	BL8685	0.16	
7/16/2015	Broadwell Lake	BL8685	0.03	

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Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues
7/16/2015	Pisgah Crater	PC8630	0.20	
7/16/2015	Broadwell Lake	BL8685	0.11	
7/16/2015	Broadwell Lake	BL8685	0.12	
7/16/2015	Broadwell Lake	BL8685	0.12	
7/16/2015	Coolgardie	CG7274	1.28	
7/16/2015	Broadwell Lake	BL8685	0.09	
7/16/2015	NEMO Planning Area	699135	0.00	Boulder Corridor pole-line access route just outside planning area (exclude).
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Pisgah Crater	PC8630	0.26	
7/16/2015	Fremont Peak	FP5396	0.30	
7/16/2015	Jawbone	SC56	1.79	
7/16/2015	Fremont Peak	FP5403	0.31	
7/16/2015	Broadwell Lake	BL8685	0.01	
7/16/2015	Broadwell Lake	BL8685	0.04	
7/16/2015	Wonder Valley	WV1948	1.35	
7/16/2015	Broadwell Lake	BL8592	0.02	
7/16/2015	Broadwell Lake	BL8685	0.10	
7/16/2015	Broadwell Lake	BL8685	0.03	
7/16/2015	Broadwell Lake	BL8592	0.25	
7/16/2015	Ridgecrest	RC12	0.05	
7/16/2015	South Searles	RM4133	0.24	
7/16/2015	Red Mountain	RM0163	0.14	
7/16/2015	Cronese Lake	CL8315	0.01	
7/16/2015	Cronese Lake	CL8335	0.25	
7/16/2015	Ridgecrest	RM163	0.64	
7/16/2015	Red Mountain	RM0163	0.18	
7/16/2015	Jawbone	SC56	2.85	
7/16/2015	Rands	R69	0.38	
7/16/2015	Cronese Lake	CL8315	0.34	
7/16/2015	South Searles	RM4133	1.11	

Table 2. Routes Monitored via Aerial Photos in Year 2				
Date Monitored	Travel Management Area Subregion	Route Number	Route Mileage	Issues
7/16/2015	Wonder Valley	WV1960	1.36	
7/16/2015	Wonder Valley	WV1960	0.50	
7/16/2015	Cronese Lake	CL8315	3.79	
7/16/2015	Afton Canyon	AC8712	1.25	
7/16/2015	Joshua Tree	JT1906	1.08	
7/16/2015	Juniper Flats	JF3384	0.11	
7/16/2015	Juniper Flats	JF3384	0.19	
7/16/2015	Cronese Lake	CL8315	1.02	
7/16/2015	Juniper Flats	JF3384	0.25	Existing incursion
7/16/2015	Joshua Tree	JT1906	0.02	
7/16/2015	Juniper Flats	JF3384	0.12	
7/16/2015	Juniper Flats	JF3384	0.18	
7/16/2015	Joshua Tree	JT1906	0.24	
<i>Year 2 total miles monitored via aerial photos</i>			51.68	
<i>Total Year 1 and Year 2 miles monitored via aerial photos</i>			106.69	

SUMMARY OF MONITORING PROTOCOL:

In 2012, BLM performed a census of all designated open and limited use routes in the WEMO Plan Area based on the review of 2009 aerial photography and field inspection. The intent of this census was to document the current extent, usage, and locations of all existing incursions in the Plan Area. For monitoring purposes, this 2012 census effort is considered the “baseline” and was used to derive the sampling strategy and approach detailed in the May 2013 WEMO OHV Monitoring Protocol.

The purpose of the Protocol Monitoring is to evaluate: (1) public compliance with route closures, and (2) the creation of new illegal routes (referred to as incursions). An incursion is defined as the location along a designated route (on BLM land only) where visitors have gone off the designated route to use a closed route or develop a new route. Incursions do not include hiking, mountain biking, or equestrian trails that may intersect designated routes.

Monitoring of designated routes will occur over a 3-year monitoring cycle with a random sample of routes selected in the first year of monitoring, which routes will then be monitored over a three year period (1/3 of the sample to be monitored each year). The population of monitored routes within the WEMO Plan area will be limited to routes that are over 0.01 miles in length and are designated as open or limited. All incursions that exist at the initiation of this monitoring protocol are considered active; following field monitoring, an existing incursion will be designated as either active or inactive. Routes will be stratified by whether or not the route includes at least one existing, active incursion. This stratification process results in two strata:

1. Routes with existing, active incursions
2. Routes without existing, active incursions

Field monitoring will be performed annually on approximately 112 miles of designated routes in the "routes with existing, active incursions" stratum (a total of about 336 miles of routes will be monitored over each 3-year monitoring cycle in this stratum). For routes with no existing, active incursions, aerial photography will be used to review a random selection of routes for new incursions. Approximately 50 miles of routes with no existing, active incursions will be reviewed annually for a total of about 150 monitored miles over the 3-year monitoring period.

A 3-year monitoring sample of 336 miles of routes with existing incursions and 150 miles of routes with no existing incursions will provide statistically valid results (estimated 80% confidence level and 10% sampling error). BLM will carry out three 3-year monitoring cycles over the course of nine years.

ISSUES ENCOUNTERED IN YEAR 2:

Baseline GIS Issues:

Numerous routes with existing incursions, as identified in the 2009 aerial photography, were found to have been incorrectly placed within the "routes without existing, active incursions" population sample. These route segments will be moved to the "routes with existing, active incursions" population sample for the next sample draw at the beginning of the second 3-year monitoring period. In comparing the 2009 aerial photography against the 2013 aerial photography, no new incursions were identified, in the routes without existing, active incursions population sample.

One route (SC99) in the field monitoring sample was found to have a discrepancy in length based on actual on-the-ground conditions. The mileage for SC99 was reduced from 2.44 miles to 1.38 miles.

One route (Boulder Corridor pole-line route) in the aerial sample was found to be located adjacent to, but outside of the WEMO planning area. This route was removed from the protocol monitoring strata.

DEVIATION FROM PROTOCOL AND/OR RECOMMENDATION FOR CHANGES TO THE PROTOCOL OR VARIABLES:

BLM personnel who conducted the Year 2 protocol monitoring did not identify any necessary deviations from the protocol or recommend any changes to the protocol or variables.