

BOARD OF FIRE COMMISSIONERS

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**NOTICE OF JOINT MEETING AND AGENDA
TRUCKEE MEADOWS FIRE PROTECTION DISTRICT
SIERRA FIRE PROTECTION DISTRICT**

11:00 a.m.

Tuesday, February 10, 2015

**Washoe County Administrative Complex, Commission Chambers
1001 E. Ninth Street, Reno, Nevada**

NOTE: Items on the agenda may be taken out of order; combined with other items; removed from the agenda; moved to the agenda of another meeting; moved to or from the Consent section; or may be voted on in a block. Items with a specific time designation will not be heard prior to the stated time, but may be heard later.

The Washoe County Commission Chambers is accessible to the disabled. If you require special arrangements for the meeting, call the County Manager's Office, 328-2000, 24-hours prior to the meeting.

Time Limits. Public comments are welcomed during the Public Comment periods for all matters, whether listed on the agenda or not, and are limited to three minutes per person. Additionally, public comment of three minutes per person will be heard during individual action items on the agenda. Persons are invited to submit comments in writing on the agenda items and/or attend and make comment on that item at the Board meeting. Persons may not allocate unused time to other speakers.

Forum Restrictions and Orderly Conduct of Business. The Board conducts the business of the District and its citizens during its meetings. The presiding officer may order the removal of any person whose statement or other conduct disrupts the orderly, efficient or safe conduct of the meeting. Warnings against disruptive comments or behavior may or may not be given prior to removal. The viewpoint of a speaker will not be restricted, but reasonable restrictions may be imposed upon the time, place and manner of speech. Irrelevant and unduly repetitious statements and personal attacks which antagonize or incite others are examples of speech that may be reasonably limited.

Responses to Public Comments. The Board can deliberate or take action only if a matter has been listed on an agenda properly posted prior to the meeting. During the public comment period, speakers may address matters listed or not listed on the published agenda. The Open Meeting Law does not expressly prohibit responses to public comments by the Board. However, responses from Board members to unlisted public comment topics could become deliberation on a matter without notice to the public. On the advice of legal counsel and to ensure the public has notice of all matters the Board will consider, the Board members may choose not to respond to public comments, except to correct factual inaccuracies, ask for staff action or to ask that a matter be listed on a future agenda. The Board may do this either during the public comment item or during the following item: "*Commissioners'/Chief's Announcements, Requests for Information, Topics for Future Agendas and Statements Relating to Items Not on the Agenda".

Pursuant to NRS 241.020, the Agenda for the Board of Fire Commissioner Meetings has been posted at the following locations: Washoe County Administration Building (1001 E. 9th Street, Bldg. A), Washoe County Courthouse-District Court Administrator/Clerk of Court (75 Court Street), Washoe County Central Library (301 South Center Street) and Sparks Justice Court (1675 East Prater Way) and Washoe County’s website at www.washoecounty.us/bcc/agendas.html

Support documentation for the items on the agenda, provided to the Board of Fire Commissioners is available to members of the public at the District’s Admin Office (1001 E. 9th Street, Bldg. D, 2nd Floor, Reno, Nevada) Sandy Francis, Administrative Assistant I, phone (775) 328-6124 and on the County’s website at www.washoecounty.us/bcc/agendas.html ; and <https://notice.nv.gov>.

All items numbered or lettered below are hereby designated **for possible action** as if the words “for possible action” were written next to each item (NRS 241.020). An item listed with asterisk (*) next to it is an item for which no action will be taken.

11:00 a.m. *1. Call to order/roll call for each entity.

*2. Public Comment. Comment heard under this item will be limited to three minutes per person and may pertain to matters both on and off the Board of Fire Commissioners agenda. The District will also hear public comment during individual action items, with comment limited to three minutes per person. Comments are to be made to the Board of Fire Commissioners as a whole.

3. Consent Items: None

*4. Fire Chief Report:

A) Report and discussion related to fire district operations

5. Acknowledge Receipt of Truckee Meadows Fire Protection District Emergency Medical Services Review from the Internal Audit Division.

The following agenda item #6 will be heard by the Board of Fire Commissioners for the Truckee Meadows Fire Protection District who will convene as the Washoe County Board of Commissioners and as the Board of Fire Commissioners for the Truckee Meadows Fire Protection District.

6. Discussion and possible action for approval to submit a request to de-annex from the City of Reno APN 554-010-07, known as Truckee Meadows Fire Station #13 and include the area into the boundary of Truckee Meadows Fire Protection District.

7. Discussion and possible approval of a Cooperative Agreement between Truckee Meadows Fire Protection District and the Pyramid Lake Paiute Tribe for Provision of Emergency Response to the Wadsworth Area.

8. Possible Closed Session for the purpose of discussing labor issues with Truckee Meadows Fire Protection District per NRS 288.220.

*9. Commissioners’/Fire Chief’s announcements, requests for information, topics for future agendas, and statements relating to items not on the Agenda. (No discussion among Commissioners will take place on this item).

*10. Public Comment. Comment heard under this item will be limited to three minutes per person and may pertain to matters both on and off the Board of Fire Commissioners agenda. The District will also hear public comment during individual action items, with comment limited to three minutes per person. Comments are to be made to the Board of Fire Commissioners as a whole.

11. Adjournment.



MEMORANDUM

January 29, 2015

To: Board of Fire Commissioners
Truckee Meadows Fire Protection District

Fm: Charles A. Moore, Fire Chief

Re: Fire Chief's Report

1. I requested the Fire Prevention Division to compile statistics on the numbers of inspections and projects so the Board can see any upwards trends in the division's work load. Please see that summary at the end of this report. I will begin to add this information to my reports on a quarterly basis.
2. Chief Leighton is at the Pierce Manufacturing Plant in Florida this week conducting acceptance tests on the District's three new Type 3 brush engines. After acceptance is complete, the engines will be delivered to the District and in service before brush fire season.



3. I am pleased to announce the promotion of Firefighter Paramedic Patrick Hughes to Fire Equipment Operator. Mr. Hughes has significant experience in operating fire equipment, with some of that experience in heavy snow conditions in the South Lake Tahoe region.
4. The American Red Cross will be conducting another home smoke detector campaign in Sun Valley on Saturday February 21st. I have asked South Valley Volunteers to assist with smoke detector distribution in the Washoe Valley area. I will report back on smoke detector placement at a future date.
5. Training staff is beginning to build momentum with volunteer training. The photo below is of the January drill at the Regional Training Center held with career and volunteer staff from Peavine, Silver Lake and South Valley. For the next few months, our trainings are schedule for the following topics:
 - February: Hazardous Materials refresher (OSHA mandated)
 - March: Self-contained breathing apparatus mask fit-testing, infection control and personal protection equipment inspections.
 - April: Wildland firefighting refresher (RT-130)
 - May: Practical simulated wild fire drill



TMFPD Fire Prevention Summary – December 2014	
Fire inspection - Approx. hours = 21 Miles = 700	Number
Business	0
Business license	1
Childcare	2
Construction	8
Defensible space	0
Fire sprinkler	10
Fire alarm	0
Hood System	0
Total	21
Fire investigation - Approx. hours = 6	Number
Investigation	2
Reports	2
Court	0
Total	4
Plan Review - Approx. hours, including meetings = 50	Number
Residential, including sprinkler systems	20
Commercial	5
Commercial Fire alarm	0
Commercial Fire sprinkler	0
Commercial hood system	0
Total	25
Development Review - Approx. hours = 8	
Streets/Engineering	4
County Fire Code	4
Total	8
Training - Approx. hours = 20	
Investigation	5
Code	8
EMS	7
Total	20
Media - Approx. hours = 3	
News Interviews	2
Public Education	
CWPP/CAB mtg. - Approx. hours = 5	
Agency Review - Approx. hours = 2	3
Medical Marijuana Establish - Approx. hours = 10	



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CM/ACM VB

Finance VB

DA BC

Risk Mgt. DE

HR N/A

STAFF REPORT

BOARD MEETING DATE: February 10, 2015

DATE: January 26, 2015
TO: Board of Fire Commissioners Truckee Meadows Fire Protection District
FROM: Alison A. Gordon, CPA, CFE
Washoe County Internal Audit Manager
328-2064, agordon@washoecounty.us
THROUGH: Charles Moore, Fire Chief
John Slaughter, County Manager
SUBJECT: Acknowledge Receipt of Truckee Meadows Fire Protection District
Emergency Medical Services Review from the Internal Audit Division.

SUMMARY

This review was performed in response to approval of Agenda Item 5 during the September 23, 2014 Board of Fire Commissioners of the Truckee Meadows Fire Protection District. The agenda item approved was an analysis of the Truckee Meadows Fire Protection District (District) and Sierra Fire Protection District (SFPD) by the Washoe County Internal Audit Division and LSM-Government Financial Management to determine the TMFPD cost per medical call. This included a review of the emergency medical services provided to County citizens in Wadsworth.

The review showed the following:

Various County and non-County emergency response entities responded to emergency medical service, (EMS), calls within Washoe County. These include but are not limited to REMSA, the District, certain District and County volunteer fire stations, the Storey County Fire Protection District, the North Lyon County Fire Protection District, and the Pyramid Lake Fire/EMS tribal district.

The District's cost to provide emergency services is estimated at \$2,582. This includes the costs of direct emergency operations and administrative overhead. This amount is about 9 percent more than first reported to the Fire Board in March 2012.

The District periodically helps REMSA in the transportation of patients by sending a paramedic in the REMSA ambulance to assist with the patient. During the period January 1 through June 30 2014, this occurred 56 times. The average staff time spent on transport was 45 minutes at a cost of about \$129.

Wadsworth EMS services falls within REMSA's operational area. During FY14, the County Health District reported REMSA responded to calls in the Wadsworth area three times. While the number of responses appears low, no other data was available. The number of REMSA responses has resulted in other fire entities with fire apparatus or ambulance and paramedic staff responding to calls in Wadsworth, including the District's Spanish Springs and Hidden Valley stations, the North Lyon County Fire Protection District, and the Pyramid Lake Fire Rescue/EMS tribal district. These teams responded to EMS calls 215 times during FY14 with limited cost reimbursement or medical supply replacement from REMSA.

Since May 1994, REMSA has collected the additional \$27 increase adjusted annually for CPI in its customer billing. Based on the analysis performed in Appendix I, we prepared a conservative estimate of REMSA's Wadsworth fee revenues and expenditures including amounts for uncollectible accounts, and annually adjusted for CPI to staff an ambulance in Wadsworth over the last 20 years. This analysis showed over the 20 years REMSA collected an estimated \$6.1M more revenues than expenses.

During August 2013, the District, the Reno Fire Department, the Sparks Fire Department and REMSA entered into a three-month agreement regarding REMSA reimbursing certain medical supplies used by the participating agencies. The District reported once the agreement expired, it entered into a verbal agreement with REMSA to continue the program. To date REMSA has only reimbursed the District about \$852 of the \$15,421.16 owing through November 2014 for agreed upon medical supplies. REMSA is also not reimbursing other non-County entities responding to Washoe County emergency medical calls the cost of providing the service and replacement of medical supplies is inconsistent.

County Priority/Goal supported by this item: Government Efficiency and Financial Stability

PREVIOUS ACTION

No previous action has been taken on this Board item.

BACKGROUND

On October 22, 1986, the Health District granted REMSA the right to provide both emergency and non-emergency ambulance service by ground and rotary wing units on an exclusive basis within the Washoe County Health District, except for ground operations in Gerlach and the North Lake Tahoe Fire Protection District. The most recent Amended and Restated Franchise Agreement is dated May 22, 2014. There were no changes to the franchise service area in this agreement.

Per the Amended and Restated Franchise Agreement, REMSA may employ the use of "mutual aid" as appropriate in fulfillment of its obligations to provide ambulance service. Mutual and automatic aid providers in Washoe County include the Truckee Meadows Fire Protection District, County volunteer fire departments, the Reno Fire Department, the Sparks Fire Department, the North Lake Tahoe Fire Protection District, and the Pyramid Lake Fire Rescue and EMS. In addition, other non-County EMS first

responders include the North Lyon County Fire Protection District, the Storey County Fire Department, and Pyramid Lake Fire/EMS tribal district.

On February 26, 2013, the County Board of Fire Commissioners approved the Truckee Meadows Fire Protection District, District, request to increase the service level for emergency medical services in the Truckee Meadows District boundary. At that time, the County Fire Board approved staff's recommendation to increase the service level for emergency medical services within the District. This changed the service level from Intermediate Life Support to Advanced Life Support (ALS) with at least one of the on-duty staff at seven fire stations being certified as a Paramedic. Currently, a minimum of one on duty paramedic is assigned per shift at each of the District's 11 stations.

SCOPE AND METHODOLOGY

The scope of the review included identifying the number of EMS calls during FY14 and evaluating the costs incurred by the Truckee Meadows Fire Protection District when providing emergency medical services. In addition, the review includes identifying the cost incurred when District paramedic staff assists REMSA during the transport of a patient to the hospital. It also included reviewing paramedic services provided to the citizens of Wadsworth and determining the revenues generated by the additional fees REMSA receives to provide emergency medical services in Wadsworth.

This audit was conducted in accordance with Generally Accepted Government Auditing Standards, and covered the period of July 2013 to December 2014. Fieldwork was conducted between November 2014 and January 2015.

FISCAL IMPACT

This report has no fiscal impact.

RECOMMENDATION

It is recommended the Board of Fire Commissioners acknowledge receipt of the Truckee Meadows Fire Protection District EMS Review.

POSSIBLE MOTION

Should the Board of Fire Commissioners acknowledge receipt of this audit report, a possible motion would be:

"I move to acknowledge receipt of the Truckee Meadows Fire Protection District EMS Review from the Washoe County Internal Audit Division."

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Attachments

Estimate of REMSA Wadsworth Revenue & Expense

Year	CPI Rate for Medical Services (1)	Rate + 1	Per Bill Fee Amount using CPI	REMSA Patient Numbers (2)	Annual Revenue (Patient Numbers multiplied by Fee)	Annual Revenue Less Uncollectible Amounts (3)	Expenses Using CPI Rate for Medical Services (4)	Excess/(Shortage)
1995	-	1.0000	\$ 27.00	16,500	\$ 445,500.00	\$ 258,390.00	\$ 263,096.00	\$ (4,706.00)
1996	0.0460	1.0460	\$ 28.24	17,243	\$ 486,962.69	\$ 311,656.12	\$ 275,198.42	\$ 36,457.70
1997	0.0370	1.0370	\$ 29.29	18,018	\$ 527,704.42	\$ 337,730.83	\$ 285,380.76	\$ 52,350.07
1998	0.0300	1.0300	\$ 30.17	18,829	\$ 567,994.65	\$ 363,516.58	\$ 293,942.18	\$ 69,574.40
1999	0.0310	1.0310	\$ 31.10	19,677	\$ 611,954.60	\$ 391,650.94	\$ 303,054.39	\$ 88,596.55
2000	0.0340	1.0340	\$ 32.16	20,562	\$ 661,235.30	\$ 423,190.59	\$ 313,358.24	\$ 109,832.36
2001	0.0400	1.0400	\$ 33.44	21,487	\$ 718,630.52	\$ 459,923.54	\$ 325,892.57	\$ 134,030.97
2002	0.0460	1.0460	\$ 34.98	22,454	\$ 785,513.47	\$ 502,728.62	\$ 340,883.62	\$ 161,844.99
2003	0.0470	1.0470	\$ 36.63	23,465	\$ 859,442.07	\$ 550,042.92	\$ 356,905.15	\$ 193,137.77
2004	0.0400	1.0400	\$ 38.09	24,521	\$ 934,041.64	\$ 597,786.65	\$ 371,181.36	\$ 226,605.29
2005	0.0460	1.0460	\$ 39.84	25,624	\$ 1,020,972.89	\$ 653,422.65	\$ 388,255.70	\$ 265,166.95
2006	0.0430	1.0430	\$ 41.56	26,777	\$ 1,112,794.09	\$ 712,188.22	\$ 404,950.70	\$ 307,237.52
2007	0.0420	1.0420	\$ 43.30	27,982	\$ 1,211,710.36	\$ 775,494.63	\$ 421,958.63	\$ 353,536.00
2008	0.0400	1.0400	\$ 45.04	29,241	\$ 1,316,886.82	\$ 842,807.56	\$ 438,836.97	\$ 403,970.59
2009	0.0410	1.0410	\$ 46.88	30,557	\$ 1,432,568.74	\$ 916,843.99	\$ 456,829.29	\$ 460,014.70
2010	0.0320	1.0320	\$ 48.38	31,932	\$ 1,544,939.43	\$ 988,761.24	\$ 471,447.83	\$ 517,313.41
2011	0.0340	1.0340	\$ 50.03	33,369	\$ 1,669,353.40	\$ 1,068,386.18	\$ 487,477.05	\$ 580,909.13
2012	0.0300	1.0300	\$ 51.53	34,871	\$ 1,796,808.54	\$ 1,149,957.46	\$ 502,101.36	\$ 647,856.10
2013	0.0290	1.0290	\$ 51.53 (5)	36,440	\$ 1,877,748.03	\$ 1,201,758.74	\$ 516,662.30	\$ 685,096.43
2014	0.0290	1.0290	\$ 51.53 (5)	38,080	\$ 1,962,246.69	\$ 1,373,572.68	\$ 531,645.51	\$ 841,927.17
Totals					\$ 21,545,008.33	\$ 13,879,810.13	\$ 7,749,058.03	\$ 6,130,752.10

(1) The Health District reported REMSA's billing rates are adjusted annually for the May CPI. Because the CPI rates used were not available, medical services rates were obtained from the U.S. Bureau of Labor Statistics website.

(2) REMSA patient data was not available other than in 1995. For subsequent years, we assumed a 4.5% annual increase in patient load which resulted slightly under REMSA's reported patient load for FY14.

(3) REMSA uncollectible amount percentage data was not available other than in 1995 and 2013, where the percentages of 42% and 30% were used respectively. For the years occurring between 1995 and 2013 a blended rate of 36% was used. Using these rates, revenues were adjusted to estimate the amount collectible.

(4) REMSA expenditure data pertaining to Wadsworth was not available other than in 1995. For subsequent years, expenditures were estimated using the same medical services rates obtained from the U.S. Bureau of Labor Statistics as used for REMSA's billing rates.

(5) The 2012 bill fee of \$51.53 was used for 2013 and 2014 as this rate is consistent with REMSA's current average bill amount.



Truckee Meadows Fire Protection District Emergency Medical Services Review

January 26, 2015



Executive Summary

The Truckee Meadows Fire Protection District provides emergency medical services to Washoe County citizens. This internal audit was performed to analyze the costs incurred by the District to provide emergency medical services and analyzed emergency medical services in Wadsworth, NV.

REMSA provides emergency and non-emergency ambulance service within Washoe County.

REMSA holds the exclusive right to provide ambulance service within Washoe County with the exception of ground services in Gerlach and North Lake Tahoe Fire Protection District (Page 1).

The District responds to EMS calls within Washoe County.

During FY14, the District responded to 6,257 EMS calls. The cost to the District for each response is estimated at \$2,582 (Page 2).

Four entities currently provide various levels of EMS service in Wadsworth during FY14.

The County Health District reported REMSA responded 3 times, the District responded 112 times, the North Lyon Fire Protection District responded 32 times and the Pyramid Lake Fire/EMS Tribal District responded 71 times (Page 5).

REMSA bills an additional amount to its Washoe County customers to fund ambulance services in Wadsworth.

Over the last 20 years, it is estimated that REMSA has collected revenues exceeding its expenses for providing a service in Wadsworth. These excess revenues have increased annually reaching about \$6.1M at the end of FY14 (Page 6).

REMSA does not always reimburse or replace medical supplies used by other EMS responders providing service in Washoe County.

Since entering an agreement with the District in August 2013, REMSA has only reimbursed about \$852 of \$15,421.16 billed and only sporadically replaces used medical supplies (Page 7).

Observations

Truckee Meadows Fire Protection District Emergency Medical Services

The Truckee Meadows Fire Protection District (District) station staff includes a minimum of one on duty paramedic per shift at each of its 11 fire stations. In addition to the paramedics assigned, the other station staff may also be certified at the paramedic level and function in this job classification, as needed, e.g. firefighters, equipment operators, and station captains. However, having other fire station staff with a paramedic certification greatly assists in providing quality care to EMS patients.

REMSA provides both emergency and non-emergency ambulance service by ground and rotary wing units on an exclusive basis within the Washoe County Health District, except for ground operations in Gerlach and the North Lake Tahoe Fire Protection District. In the suburban, rural and frontier areas of Washoe County, many of which includes District communities, REMSA's response time standards for life threatening calls varies between 15 to about 31 minutes depending on the location of the call, with frontier/wilderness areas requiring a response "as quickly as possible".

Because response time and distance are directly correlated, the further an ambulance or first responder is from a patient in need of emergency medical services, the longer the wait for those services. In a life threatening situation, as more time elapses until care is initiated, the worse the outcome is for the patient. In the suburban, rural and frontier areas, the District fire stations are strategically located which allows District staff to provide initial emergency medical services to patients until a REMSA ambulance or care flight arrives. In those frontier/wilderness areas where the District stations may not be the closest responder, the District has established automatic aid agreements with other non-County emergency response districts that may be closer.

District Emergency Call Data

Using the District's Fire RMS reporting system, during FY14, the District responded to 7,627 emergency calls. An analysis of these calls showed the District, responded to 6,257 emergency medical services, EMS, calls. This equates to 82% of the total emergency calls. Exhibit 1 shows the number of EMS calls per District station.

Exhibit 1

St.#	Location	# of EMS Calls
13	Stead	741
14	Damonte Ranch	517
15	Sun Valley	1,678
16	East Washoe Valley	302
17	Spanish Springs	1,352
18	Cold Springs	485
30	Bowers	46

35	Mogul	284
36	Arrowcreek	298
37	Hidden Valley	357
39	Joy Lake	197
Total		6,257

In addition to the District stations providing service in eastern Washoe County, the Storey County Fire Protection District provides automatic aid, including responding to EMS calls. According to the Storey County Fire Chief, about 95 percent of the automatic aid calls pertain to EMS Services. During the period January 2014 through June 2014, Storey County responded about 43 times to EMS calls in Washoe County and during the period July 2014 through October 2014 responded about 51 times including EMS calls along the I80 corridor between Orchard and Painted Rock.

District Costs per Emergency Medical Response

To estimate the total dollar cost on a per response basis, we reviewed the County financial system, SAP, during FY2014 and used the cost of direct emergency operations and administrative overhead, excluding contingencies and capital outlay. The results are as follows:

District EMS Expenses during F14	\$16,153,680
Total number of emergency calls (per District Fire RMS system)	6,257
Estimated District Cost per Response	\$2,582

The District EMS Expenses includes about \$88,600 in medical supplies expense for FY14. This equates to an average of about \$14 per medical call. However, the amount of medical supplies used for each EMS call can vary from a few inexpensive supplies such as a bandage and antiseptic wipe to expensive supplies including various equipment and pharmaceuticals.

District Participation in Patient Transports

During the period January 1, 2014 through June 30, 2014, the District assisted REMSA in the transportation of patients 56 times by sending a firefighter in the REMSA ambulance to assist with patient care while transporting the patient to the hospital. Data prior to January 1, 2014 was not available. The average staff time spent during transport was 45 minutes at a cost of about \$129, with actual transport times occurring between 10 minutes to 2 hours and 40 minutes where costs range between \$29 and \$287 respectively. These costs include both salaries and benefits of the paramedic participating in the transport, and the staff and benefit costs of the responding fire station going out of service. When District staff participates in the transportation of a patient, the responding fire engine is out of service until the paramedic is retrieved by the engine company on scene or returns

to the station by other means of transportation. As a result, fire staff from another station would be required to respond to calls assigned to the out of service station or apparatus.

EMS Service in Wadsworth

Wadsworth EMS service falls within REMSA’s franchise operational area. On June 22, 1994, the Washoe County District Board of Health met and approved REMSA maintaining a ground ambulance unit within Wadsworth; and that the average ground ambulance bill be increased by 5.3% or \$27 as outlined by staff. The increase to the average REMSA ground bills was to cover the cost of placing and staffing an advanced life support, ALS, unit in Wadsworth. REMSA documentation also showed this additional funding was needed to pay for ambulance, medical equipment and communications in Wadsworth, all of which would result in REMSA incurring long-term costs.

Both District and REMSA staff reported that REMSA did place a mobile home next to the District’s Wadsworth fire station, which also included an ambulance. For unknown reasons the arrangement did not continue and REMSA staff and an ambulance are now located in the Big Bend RV Park in Wadsworth. At a recent Citizen’s Advisory Board meeting held in Wadsworth, REMSA management stated an ambulance is located in Wadsworth as ambulances are available. As a result, REMSA staff and ambulances are not always stationed in Wadsworth as also demonstrated in the response numbers below.

REMSA was requested to provide data showing the number of ground responses in Wadsworth during FY14. According to REMSA management, this data was not available. County District Board of Health records showed three REMSA ground responses in the Wadsworth area during FY14. While the number of responses appears low, no other data was available. For the first four months of FY15, REMSA management reported their staff responded to calls 19 times with 9 ground transports.

The number of REMSA responses has resulted in other fire entities with fire apparatus or ambulance and ALS personnel responding to EMS calls in Wadsworth. These include District Stations 17 and 37. The District’s Spanish Springs and Hidden Valley stations are located in eastern Reno/Sparks areas and are at least 30 miles away from Wadsworth. Other non-Washoe County entities are strategically closer and respond when available. This includes the North Lyon County Fire Protection District, and the Pyramid Lake Fire Rescue/EMS tribal district, each of which provide ambulance services. Exhibit II below shows the number of Wadsworth area EMS call responses by the District stations and each of the non-County entities during FY14.

Exhibit II

District	FY14	July – Oct. 2014
Truckee Meadows Fire District Stations 17 & 37	112	8
North Lyon County Fire Protection District	32	12 ⁽¹⁾
Pyramid Lake Fire Rescue/EMS	71 ⁽²⁾	81

Total	215	101
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⁽¹⁾ The North Lyon County Fire Protection District reported a decrease in call responses because they were unable to fill the request due to staffing issues or denied the request for other reasons.

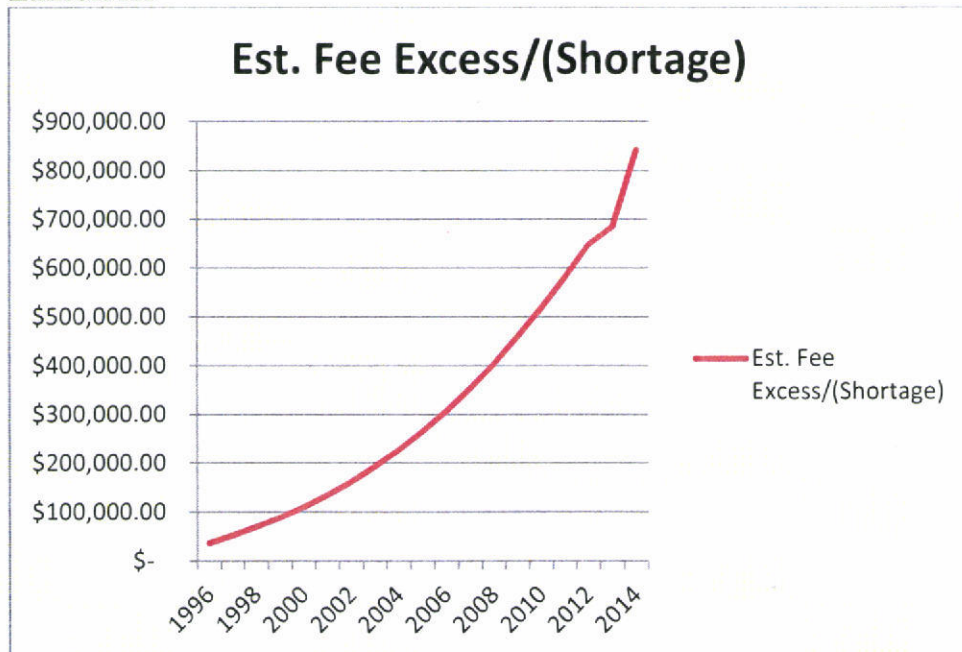
⁽²⁾ Data includes call responses from March 2014 when services were first available through June 2014.

Additional Billing Fee for Wadsworth Service

Since May of 1994, REMSA has included the additional \$27 increase, adjusted annually for CPI, in its customer billing, even though it has not consistently provided ambulance services in Wadsworth. To estimate the amounts collected and expended by REMSA for providing ambulance service in Wadsworth over the last 20 years, various assumptions were made because actual data was limited and/or not available. After much analysis, a conservative estimate of both revenues and expenses was developed using the medical services CPI rates for each year. The details behind the amounts described and the assumptions used are identified in Appendix I of this report.

Based on the analysis performed in Appendix I, over the 20 years where REMSA received revenues and expenses were incurred to staff an ambulance in Wadsworth, it appears REMSA collected an estimated \$6.1M more revenues than it had in expenses. For example, we estimated that revenues exceeded costs in FY96 by about \$36K, in FY05 by about \$265K, and in FY14 by about \$842K. During years where REMSA had limited responses in Wadsworth, its expenses would have been significantly less to provide service in Wadsworth and excess fees would be higher than estimated in Appendix I. Exhibit III, which is based on the data in Appendix I, shows how estimated excess Wadsworth funding revenues have steadily increased over the years.

Exhibit III



REMSA's revenues and expenses pertaining to the additional funding received for Wadsworth are not tracked separately and are included as part of REMSA's patient

service revenue and expense in its financial statements. Therefore, any excess revenues collected resulting from the Wadsworth funding would have subsidized the cost of providing service in areas outside of Wadsworth or increased REMSA's fund balances.

Reimbursement for EMS Medical Supplies Used

During August 2013, the District, the Reno Fire Department, the Sparks Fire Department and REMSA entered into an agreement regarding EMS medical supplies used. Per the agreement, REMSA agreed to reimburse participating agencies (at REMSA's cost) for disposable medical equipment used on scene by first responders prior to the arrival of REMSA personnel, as long as REMSA had adequate financial resources to do so. The term of the agreement was August 15, 2013 through October 31, 2013 as a three-month trial period. After three months of successful compliance with the agreement, all parties were to meet to discuss the continuation, adjustment, suspension, termination or general changes to the agreement.

According to District staff, once the three-month period expired, the District and REMSA made a verbal agreement to continue the medical supply reimbursement arrangement. Since the beginning of the three-month agreement, the District's financial system shows REMSA has only reimbursed the District twice – once in November 2013 and again in February 2014 totaling around \$852. Since December 2013 through December 2014, the District has used medical supplies falling within this agreement totaling \$15,421.16.

In addition, both the North Lyon Fire Protection District and the Pyramid Lake Fire Rescue/EMS tribal district reported that periodically REMSA ambulances meet them and provide replacement supplies from the REMSA ambulance. However, both agencies reported supply replacement is sporadic and depends on the staff responding in the ambulance. REMSA does not reimburse either of the agencies for their costs of providing service in Wadsworth.

Summary

Based on the information provided, several emergency response providers respond to emergency medical calls within Washoe County. REMSA is primarily responsible for providing this service with the exception of Gerlach and North Lake Tahoe Fire Protection District. Other providers include both County and non-County entities such as the District and certain of its volunteer stations, and the Storey County Fire Protection District, which provides automatic aid essentially primarily along the I-80 corridor on the eastern side of Washoe County. For the Wadsworth area, in addition to REMSA and District staff, several other non-County emergency response providers respond to emergency medical calls, including the North Lyon Fire Protection District and the Pyramid Lake Fire Rescue/EMS tribal district.

Since FY95, REMSA has been collecting an additional amount from each County citizen using REMSA services to provide ambulance services in the Wadsworth area even though it has not provided consistent service. We prepared a conservative estimate

showing REMSA has collected significantly more revenues from this fee than the amounts expended to provide service. Additionally, REMSA is currently not reimbursing these entities for their costs to provide service in Wadsworth or replacing medical supplies used.



**BOARD OF COUNTY COMMISSIONERS
TRUCKEE MEADOWS FIRE PROTECTION DISTRICT**



STAFF REPORT

Board Meeting Date: February 10, 2015

CM
Finance LC/MVB
Legal /BC
Risk Mgt. DE/DE
HR /N/A

DATE: January 12, 2015
TO: Board of County Commissioners
Truckee Meadows Fire Protection District Board of Fire Commissioners
FROM: John Slaughter, County Manager
Phone: (775) 328-3607 Email: jslaughter@washoecounty.us
Charles A. Moore, Fire Chief
Phone: (775) 328-6123 Email: cmoore@tmfpd.us
SUBJECT: Discussion and possible action for approval to submit a request to de-annex from the City of Reno APN 554-010-07, known as Truckee Meadows Fire Station #13 and include the area into the boundary of Truckee Meadows Fire Protection District. (Commission District 1)

SUMMARY

Discussion and possible action for approval to submit a request to de-annex from the City of Reno APN 554-010-07, known as Truckee Meadows Fire Station #13 and include the area into the boundary of Truckee Meadows Fire Protection District (TMFPD).

Strategic Objective supported by this item: *Safe, secure and healthy communities*

PREVIOUS ACTION

None

BACKGROUND

The land is owned by Washoe County; however, the improvements were constructed by Truckee Meadows Fire Protection District. TMFPD has operated the Fire Station on this property since 1976.

On October 9, 2014 the Board of Fire Commissioners approved an action referring to the Board of County Commissioners, a request by the Sierra Sage Golf Course to de-annex from the City of Reno. This property is adjacent to TMFPD Station 13.

On December 09, 2014 the board approved to initiate de-annexation of TMFPD Fire Station 35 from the City of Reno.

It would be ideal to present all three properties for de-annexation to the City of Reno at one time.

A map of the areas requested for de-annexation is attached.

FISCAL IMPACT

There will be no additional staffing levels needed to cover TMFPD Station #13; any additional cost of response exists within the current budget.

RECOMMENDATION

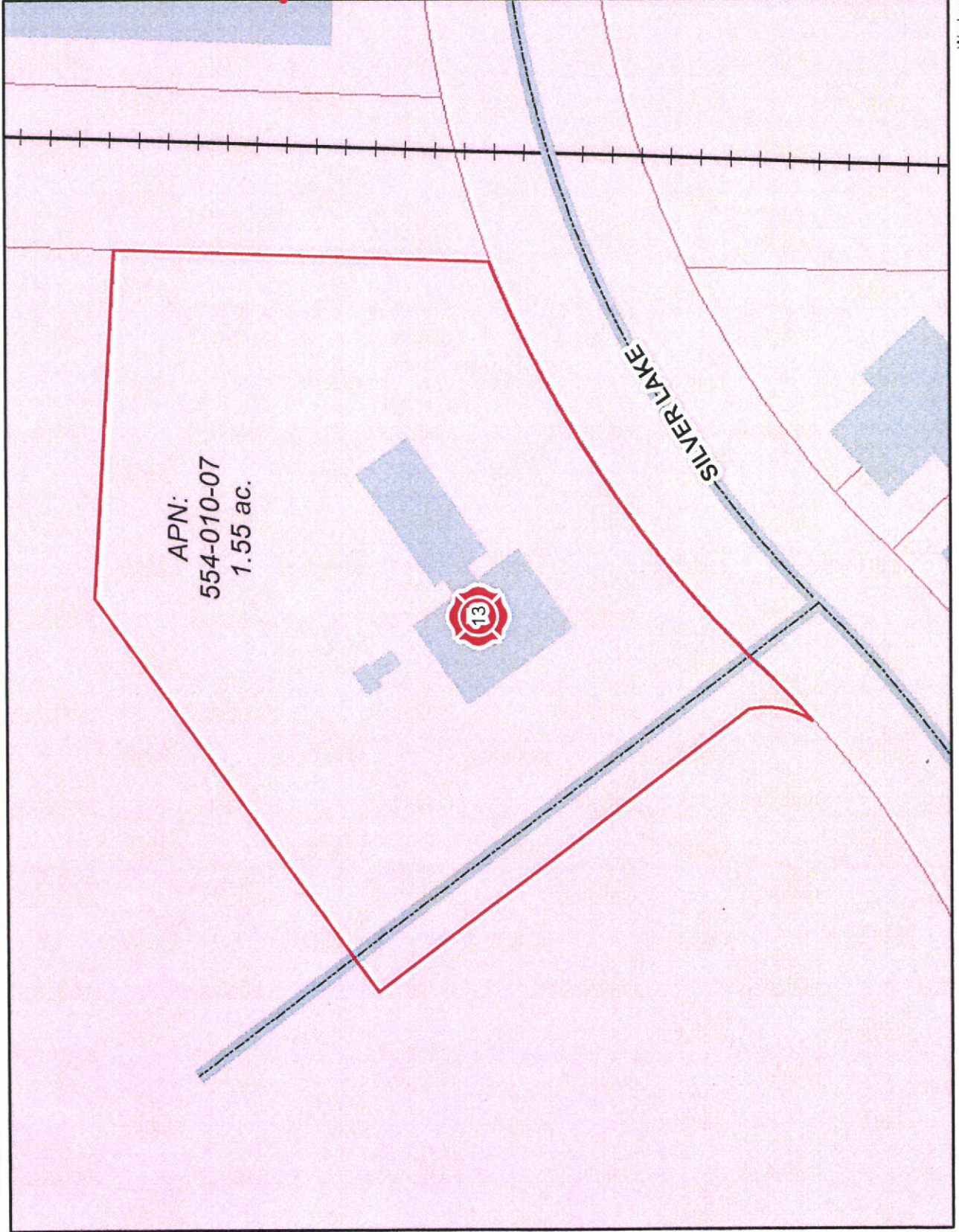
It is recommended by Staff, the board/s approve a request to submit for de-annexation from the City of Reno APN 554-010-07, known as Truckee Meadows Fire Station #13 and include the area into the boundary of Truckee Meadows Fire Protection District.

POSSIBLE MOTION

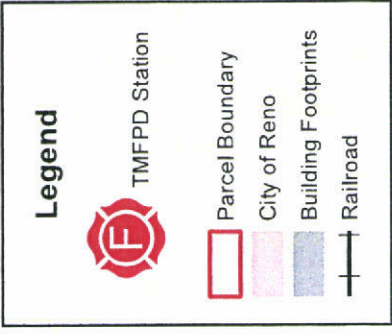
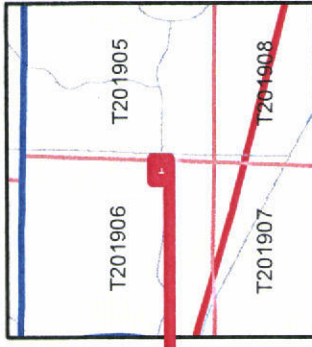
Should the Board/s agree with staff's recommendation a possible motion could be:

"I recommend approving a request to de-annex from the City of Reno APN 554-010-07, known as Truckee Meadows Fire Station #13 and include the area into the boundary of Truckee Meadows Fire Protection District."

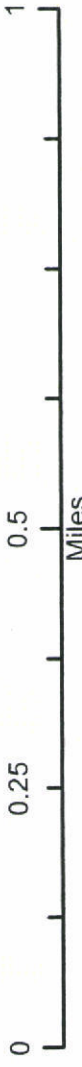
Station 13



Township 20N
Range 19E
Section 6 M.D.M.



Washoe County GIS Program
Tech. Svcs Dept./Regional Svcs. Div.
1001 E. 9th St.,
Reno, NV 89512
www.washoecounty.us/gis






TRUCKEE MEADOWS FIRE PROTECTION DISTRICT

STAFF REPORT

Board Meeting Date: February 10, 2015

CM/ACM 
Finance VVB
Legal BC
Risk Mgt. DE
HR N/A

DATE: January 26, 2015
TO: Truckee Meadows Fire Protection District Board of Fire Commissioners
FROM: Charles A. Moore, Fire Chief
Phone: 775-328-6123 Email: cmoore@tmfpd.us
SUBJECT: Discussion and possible approval of a Cooperative Agreement between Truckee Meadows Fire Protection District and the Pyramid Lake Paiute Tribe for Provision of Emergency Response to the Wadsworth Area. (All Commission Districts)

SUMMARY

This staff report recommends approval of an agreement between Truckee Meadows Fire Protection District (TMFPD) and the Pyramid Paiute Tribe for the provision of fire and emergency medical services, whereby the Pyramid Paiute Tribe will assist the District with emergency response to fire and emergency medical calls to District areas of Wadsworth in exchange for use of the Wadsworth fire station.

Strategic Objective supported by this item: *Safe, Secure and Healthy Communities*

PREVIOUS ACTION

None

BACKGROUND

The Tribe operates a Volunteer Fire Department and has several volunteers who reside in the Wadsworth area. For a fire in the tribal areas of Wadsworth, Pyramid Paiute Tribe volunteers must respond to Nixon for equipment, and then respond back to Wadsworth. TMFPD responds from Hidden Valley for fires in TMFPD portions of Wadsworth.

In the interest of providing a faster response for both the Pyramid Tribe residents and District residents, this agreement provides for Pyramid Tribe providing assistance to TMFPD in exchange for a lease of the Wadsworth station to the Tribe, and donation of vehicles to the Tribe.

FISCAL IMPACT

Should there be any costs related to exceeding the time threshold and or the need to enter into cost share agreements, there is sufficient budget authority within the TMFPD approved 2014/15 budget under Emergency funds.

RECOMMENDATION

Staff recommends that the Board of Fire Commissioners approve a Cooperative Agreement between Truckee Meadows Fire Protection District and the Pyramid Lake Paiute Tribe for Provision of Emergency Response to the Wadsworth Area.

POSSIBLE MOTION

Should the Board of Fire Commissioners agree with the staff's recommendation, a possible motion could be:

"I move to approve a Cooperative Agreement between Truckee Meadows Fire Protection District and the Pyramid Lake Paiute Tribe for Provision of Emergency Response to the Wadsworth Area."

REGION	PIN	SUBNAME	STREET NUMBER	STREET	LAST NAME	ZONING	ACREAGE	TAX DISTRICT
WADS	084-200-84	WADSWORTH TOWNSITE	191	RESERVATION ST	ALEX	MDS	0.439991	4000
WADS	084-150-50		0	STATE ROUTE 427	ANDELIN INVESTMENTS LLC	Notes	38.237	4000
WADS	084-200-81	TOWN OF WADSWORTH	60	ACKLEY AVE	ASHMAN	MDS	0.29899	4000
WADS	084-200-40	TOWN OF WADSWORTH	20	ACKLEY AVE	ASHMAN	MDS	0.117011	4000
WADS	084-200-41	TOWN OF WADSWORTH	265	VIRGINIA ST	ASHMAN	MDS	0.221006	4000
WADS	084-220-37	TOWN OF WADSWORTH	505	HILL RANCH RD	B V NEVADA CORP	I	4.99	4000
TR/CYN	084-281-01		31795	INTERSTATE 80 E	BACHTLE	GR	1.282989	4000
WADS	084-160-03	WADSWORTH TOWNSITE	510	MAIN ST	BAGGETT LIVING TRUST	MDS	0.225	4000
WADS	084-200-42	TOWN OF WADSWORTH	241	VIRGINIA ST	BALLARD	MDS	0.194995	4000
WADS	084-200-63	TOWN OF WADSWORTH	0	UNSPECIFIED	BENNETT	MDS	2.17	4000
TR/CYN	084-291-15		0	STAMPMILL DR	BERTRAM	MDS	0.469995	4000
TR/CYN	084-292-01		32000	CANTLON DR	BOOTSMA	MDR	11.15	4000
WADS	084-220-36	TOWN OF WADSWORTH	210	LINCOLN HWY	BRADY	MDS	1.15	4000
TR/CYN	084-361-08	STAMPMILL ESTATES 2B	480	DISPENSIA ST	BRANSON	MDS	0.298003	4000
TR/CYN	084-331-09	STAMPMILL ESTATES 1	495	STAMPMILL DR	BRAZZANOVICH	MDS	0.257002	4000
WADS	084-200-01	WADSWORTH TOWNSITE	175	ACKLEY AVE	BRIDGES	MDS	0.410009	4000
TR/CYN	084-341-09	STAMPMILL ESTATES 1	630	SLIP MINE ST	BROWNING	MDS	0.257989	4000
WADS	084-200-59	WADSWORTH TOWNSITE	351	RESERVATION ST	BUKKY	NDA	0.282989	4000
WADS	084-180-04	WADSWORTH TOWNSITE	281	5TH ST	BURTON	MDS	0.675	4000
WADS	084-220-46	TOWN OF WADSWORTH	0	LINCOLN HWY	BYRD	MDS	0.367011	4000
WADS	084-220-45	TOWN OF WADSWORTH	325	LINCOLN HWY	BYRD	MDS	0.692998	4000
TR/CYN	084-331-08	STAMPMILL ESTATES 1	485	STAMPMILL DR	BYRD	MDS	0.271993	4000
WADS	084-200-51	TOWN OF WADSWORTH	260	VIRGINIA ST	CALQUHOUN	MDS	2.97	4000
WADS	084-200-68	WADSWORTH TOWNSITE	171	SCHOOL ST	CARTER	MDS	0.703007	4000
WADS	084-200-33	TOWN OF WADSWORTH	101	VIRGINIA ST	CERESOLA	MDS	0.271993	4000
TR/CYN	084-282-15		31900	CANTLON DR	CONLEY	MDR	4.6	4000
WADS	084-160-29	TOWN OF WADSWORTH	0	MAIN ST	CORRELL	GC	0.012006	4000
TR/CYN	084-341-01	STAMPMILL ESTATES 1	435	STAMPMILL DR	COUPE LIVING TRUST	MDS	0.298003	4000
WADS	084-160-28	TOWN OF WADSWORTH	0	LIBERTY RD	COWDEN	MDS	0.344008	4000
WADS	084-200-62	WADSWORTH TOWNSITE	201	RESERVATION ST	COX PENSION PLAN #2	MDS	0.305005	4000
WADS	084-200-02	WADSWORTH TOWNSITE	150	ACKLEY AVE	CRAIG	MDS	0.285009	4000
WADS	084-160-26	TOWN OF WADSWORTH	0	LIBERTY RD	CROSBY	MDS	0.114991	4000
WADS	084-160-31	TOWN OF WADSWORTH	0	MAIN ST	CROSBY	GC	0.180992	4000
TR/CYN	084-342-02	STAMPMILL ESTATES 1	445	BARREL ST	DADY	MDS	0.314991	4000
TR/CYN	084-282-08		31600	CANTLON DR	DALLIMORE	MDR	19.290001	4000
TR/CYN	084-341-03	STAMPMILL ESTATES 1	560	SLIP MINE ST	DEAL	MDS	0.289004	4000
TR/CYN	084-140-03		30800	CANTLON DR	DONOHUE FAMILY TRUST	MDR	20.84	4000
TR/CYN	084-344-01	STAMPMILL ESTATES 2B	470	DISPENSIA ST	DOVE	MDS	0.267011	4000
TR/CYN	084-341-07	STAMPMILL ESTATES 1	600	SLIP MINE ST	DUNCAN FAMILY TRUST	MDS	0.257989	4000

TR/CYN	084-362-02	STAMPMILL ESTATES 2B	485	DISPENSA ST	DUNCAN LIVING TRUST	MDS	0.27601	4000
TR/CYN	084-282-16		31850	CANTLON DR	EVANS	MDR	5.942	4000
WADS	084-240-26		50	STATE ROUTE 427	FSK	MDS	20.627001	4000
TR/CYN	084-331-02	STAMPMILL ESTATES 1	480	GOLD CENTER DR	FISKE 1990 LIVING TRUST	MDS	0.257989	4000
WADS	084-160-30	TOWN OF WADSWORTH	100	MAIN ST	FRIEDMAN	GC	0.171993	4000
WADS	084-200-35	TOWN OF WADSWORTH	106	SCHOOL ST	FROSSARD	MDS	0.310996	4000
TR/CYN	084-344-05	STAMPMILL ESTATES 1	475	GOLD CENTER DR	GATTE	MDS	0.319008	4000
TR/CYN	084-343-05	STAMPMILL ESTATES 1	455	DISPENSA ST	GAITHER	MDS	0.278007	4000
TR/CYN	084-362-06	STAMPMILL ESTATES 2C	515	DISPENSA ST	GALLEGOS	MDS	0.287006	4000
WADS	084-200-46	TOWN OF WADSWORTH	0	LINCOLN HWY	GARDNER	MDS	0.182002	4000
WADS	084-200-45	TOWN OF WADSWORTH	55	VIRGINIA ST	GARDNER	PSP	0.830005	4000
TR/CYN	084-341-06	STAMPMILL ESTATES 1	590	SLIP MINE ST	GEORGE	MDS	0.27399	4000
TR/CYN	084-341-04	STAMPMILL ESTATES 1	570	SLIP MINE ST	GEORGE	MDS	0.289004	4000
TR/CYN	084-331-05	STAMPMILL ESTATES 1	455	STAMPMILL DR	GILLESPIE	MDS	0.260009	4000
WADS	084-240-21		0	UNSPECIFIED	GRANITE CONSTRUCTION COMPANY	PSP	0.439601	4000
WADS	084-240-20		0	UNSPECIFIED	GRANITE CONSTRUCTION COMPANY	PSP	0.275436	4000
WADS	084-640-04		1005	STATE ROUTE 427	GRANITE CONSTRUCTION COMPANY	GR	2.728	4000
WADS	084-200-36	TOWN OF WADSWORTH	165	SCHOOL ST	GREEN	MDS	0.32399	4000
WADS	084-220-20	TOWN OF WADSWORTH	120	BORDER CT	GUERRERO	NDA	2.08	4000
TR/CYN	084-344-02	STAMPMILL ESTATES 1	460	DISPENSA ST	GUL	MDS	0.267011	4000
TR/CYN	084-343-01	STAMPMILL ESTATES 1	460	BARREL ST	GUTIERREZ	MDS	0.258999	4000
TR/CYN	084-361-11	STAMPMILL ESTATES 2C	500	DISPENSA ST	GUTIERREZ	MDS	0.27601	4000
WADS	084-220-44	TOWN OF WADSWORTH	315	LINCOLN HWY	HADSELL	MDS	0.375	4000
TR/CYN	084-341-05	STAMPMILL ESTATES 1	580	SLIP MINE ST	HANEY	MDS	0.298003	4000
TR/CYN	084-344-04	STAMPMILL ESTATES 1	465	GOLD CENTER DR	HANKINS	MDS	0.339991	4000
TR/CYN	084-282-02		31000	CANTLON DR	HARTZELL	MDR	18.290001	4000
TR/CYN	084-282-01		30900	CANTLON DR	HAYES LIVING TRUST	MDR	14.07	4000
TR/CYN	084-342-03	STAMPMILL ESTATES 1	455	BARREL ST	HICKS	MDS	0.337006	4000
TR/CYN	084-291-11	STAMPMILL ESTATES 1	395	STAMPMILL DR	HIGHWAY 80 INVESTMENTS LLC	MDS	10.261	4000
TR/CYN	084-291-04	STAMPMILL ESTATES 1	0	STAMPMILL DR	HIGHWAY 80 INVESTMENTS LLC	MDS	5.399	4000
WADS	084-200-04	WADSWORTH TOWNSITE	150	ACKLEY AVE	HONOHAN	MDS	0.217998	4000
TR/CYN	084-282-07		31500	CANTLON DR	IJESCU FAMILY TRUST	MDR	23.959999	4000
WADS	084-200-55	WADSWORTH TOWNSITE	0	RESERVATION ST	JOHN	MDS	0.258999	4000
WADS	084-200-05	WADSWORTH TOWNSITE	210	RESERVATION ST	JOHN	MDS	0.196006	4000
TR/CYN	084-362-01	STAMPMILL ESTATES 2B	475	DISPENSA ST	JORDAN	MDS	0.248003	4000
TR/CYN	084-342-01	STAMPMILL ESTATES 1	435	BARREL ST	KELLY	MDS	0.325	4000
WADS	084-640-05	TOWN OF WADSWORTH	0	STATE ROUTE 427	KING CONSTRUCTION INC	GR	11	4000
TR/CYN	084-282-13		31300	CANTLON DR	LAVENAU	MDR	14.41	4000
WADS	084-220-31	TOWN OF WADSWORTH	280	MARION ST	LEFTWICH	HDS	0.216001	4000
WADS	084-160-36	TOWN OF WADSWORTH	0	MAIN ST	LEGARZA	GC	0.103007	4000
WADS	084-160-69	TOWN OF WADSWORTH	265	PARK AVE	LEGARZA	MDS	0.621006	4000

WADS	084-160-81	TOWN OF WADSWORTH	0	MAIN ST	LEGARZA	GC	0.257989	4000
WADS	084-160-49	TOWN OF WADSWORTH	290	PARK AVE	LEGARZA	GC	0.103007	4000
WADS	084-160-71	TOWN OF WADSWORTH	2240	MAIN ST	LEGARZA	GC	0.257989	4000
WADS	084-200-65	WADSWORTH TOWNSITE	100	RESERVATION ST	LIGHTNING VENTURES INC	MDS	0.241001	4000
WADS	084-240-23	TOWN OF WADSWORTH	0	STATE ROUTE 427	LOGAN FAMILY TRUST	PSP	14.081	4000
WADS	084-260-04	TOWN OF WADSWORTH	0	STATE ROUTE 427	LOGAN FAMILY TRUST	PSP	10.639	4000
WADS	084-260-03	TOWN OF WADSWORTH	101	LINCOLN HWY	MACHIN	LDU	9.44	4000
TR/CYN	084-361-10	STAMPMILL ESTATES 2C	510	DISPENSIA ST	MALONEY	MDS	0.29899	4000
WADS	084-180-01	WADSWORTH TOWNSITE	460	4TH ST	MANSFIELD	MDS	0.289004	4000
TR/CYN	084-341-02	STAMPMILL ESTATES 1	455	GOLD CENTER DR	MARISCAL	MDS	0.30101	4000
TR/CYN	084-343-03	STAMPMILL ESTATES 1	440	BARREL ST	MARTINEZ	MDS	0.285996	4000
TR/CYN	084-362-05	STAMPMILL ESTATES 2C	505	DISPENSIA ST	MCCABE	MDS	0.269008	4000
WADS	084-160-53	WADSWORTH TOWNSITE	440	MAIN ST	MCCAIN TRUST	GC	0.594995	4000
WADS	084-160-51	WADSWORTH TOWNSITE	540	MAIN ST	MCCAULEY	MDS	0.180005	4000
TR/CYN	084-282-19		31100	CANTON DR	MCCORD TRUST	MDR	9.49	4000
TR/CYN	084-282-18		31200	CANTON DR	MCCORD TRUST	MDR	9.49	4000
WADS	084-200-94	WADSWORTH TOWNSITE	205	RESERVATION ST	MCMINCH	MDS	0.382805	4000
WADS	084-200-64	WADSWORTH TOWNSITE	75	LEWIS AVE	MCMINCH	MDS	0.362006	4000
TR/CYN	084-282-26		31650	CANTON DR	MCOUATTERS	MDR	8.707	4000
WADS	084-200-32	TOWN OF WADSWORTH	0	SCHOOL ST	MILLER	MDS	0.233999	4000
TR/CYN	084-331-04	STAMPMILL ESTATES 1	460	GOLD CENTER DR	MONAHAN	MDS	0.278007	4000
TR/CYN	084-331-07	STAMPMILL ESTATES 1	475	STAMPMILL DR	MONAHAN	MDS	0.271006	4000
TR/CYN	084-344-06	STAMPMILL ESTATES 1	485	GOLD CENTER DR	MONAHAN	MDS	0.373003	4000
WADS	084-200-06	WADSWORTH TOWNSITE	0	STATE ROUTE 427	NEVADA LAND & RESOURCE HOLDINGS INC	GR	30.540001	4000
TR/CYN	084-281-03		31499	INTERSTATE 80 E	NICHOLS	GR	1.789991	4000
TR/CYN	084-362-03	STAMPMILL ESTATES 2C	495	DISPENSIA ST	OGILVIE	MDS	0.280992	4000
WADS	084-160-88	WADSWORTH TOWNSITE	0	HIGHWAY 40 W	OLDS	MDS	0.082002	4000
WADS	084-160-86	WADSWORTH TOWNSITE	190	GREGORY ST	OLDS	MDS	0.219995	4000
TR/CYN	084-281-04		14308	INTERSTATE 80 E	OPERATING ENGINEERS & PART EMPLOYERS PREAPP	GR	153.080002	4000
TR/CYN	084-343-06	STAMPMILL ESTATES 1	465	DISPENSIA ST	OWEN FAMILY TRUST	MDS	0.251997	4000
TR/CYN	084-361-07	STAMPMILL ESTATES 2C	490	DISPENSIA ST	OWENS	MDS	0.271993	4000
TR/CYN	084-361-09	STAMPMILL ESTATES 2C	520	DISPENSIA ST	PINTO	MDS	0.269995	4000
WADS	084-200-38	TOWN OF WADSWORTH	0	BRIDGE ST	POLFUS	MDS	0.414991	4000
WADS	084-200-43	TOWN OF WADSWORTH	221	VIRGINIA ST	POLFUS	MDS	0.401997	4000
WADS	084-180-12	WADSWORTH TOWNSITE	0	STATE ROUTE 427	PORTEOUS	MDS	0.321006	4000
WADS	084-200-89	WADSWORTH TOWNSITE	54	RAILROAD AVE	PYRAMID LAKE PAUTE TRIBE	MDS	0.278007	4000
TR/CYN	084-292-06		33800	CANTON DR	PYRAMID LAKE PAUTE TRIBE	MDR	8.687	4000
WADS	084-220-22	TOWN OF WADSWORTH	245	LINCOLN HWY	RBK PROPERTIES LLC SERIES D	MDS	0.389991	4000
TR/CYN	084-341-08	STAMPMILL ESTATES 1	620	SLIP MINE ST	READ FAMILY TRUST	MDS	0.257989	4000

WADS	084-200-85	WADSWORTH TOWNSITE	103	RESERVATION ST	ROBERTS		MDS	0.210009	4000
TR/CYN	084-341-10	STAMP MILL ESTATES 1	640	SLIP MINE ST	ROGERS		MDS	0.346005	4000
WADS	084-200-03	WADSWORTH TOWNSITE	0	ACKLEY AVE	ROSS		MDS	0.12399	4000
WADS	084-160-04	WADSWORTH TOWNSITE	440	MAIN ST	ROUNDS		PSP	0.562006	4000
TR/CYN	084-332-03	STAMP MILL ESTATES 1	456	STAMP MILL DR	SAMUELS FAMILY 1999 TRUST et al		MDS	8.176	4000
TR/CYN	084-291-38	STAMP MILL ESTATES 2C	0	STAMP MILL DR	SAMUELS FAMILY 1999 TRUST et al		MDS	108.410004	4000
TR/CYN	084-040-08		0	INTERSTATE 80 E	SAMUELS FAMILY 1999 TRUST et al		GR	632.859985	4000
WADS	084-180-08	WADSWORTH TOWNSITE	265	5TH ST	SANDER		MDS	0.289004	4000
TR/CYN	084-343-02	STAMP MILL ESTATES 1	450	BARREL ST	SCHNEIDER		MDS	0.25	4000
WADS	084-220-19	TOWN OF WADSWORTH	100	MARION ST	SHAY		MDS	4.69	4000
WADS	084-220-48	TOWN OF WADSWORTH	255	LINCOLN HWY	SHEPPARD		MDS	0.760009	4000
WADS	084-160-74	TOWN OF WADSWORTH	0	MAIN ST	SIMONS TRUST		MDS	0.210009	4000
WADS	084-240-03		20	STATE ROUTE 427	SIC LIMITED		MDS	2.963	4000
WADS	084-240-12		864	HIGHWAY 40 W	SIC LIMITED		MDS	2.985	4000
TR/CYN	084-282-14		31400	CANTON DR	SKENDER		MDR	17.639999	4000
WADS	084-160-89	WADSWORTH TOWNSITE	385	MAIN ST	SMITH		MDS	0.25101	4000
WADS	084-160-82	WADSWORTH TOWNSITE	505	MAIN ST	SMITH		MDS	0.685996	4000
WADS	084-160-79	WADSWORTH TOWNSITE	319	MAIN ST	SMITH		MDS	0.698003	4000
WADS	084-220-25	TOWN OF WADSWORTH	300	LINCOLN HWY	SMITH		HDS	2.25	4000
TR/CYN	084-331-01	STAMP MILL ESTATES 1	490	GOLD CENTER DR	SMITH		MDS	0.257989	4000
TR/CYN	084-140-11		0	INTERSTATE 80 E	SPARKS VILLAGE LLC		GR	219.712006	4000
WADS	084-160-25	TOWN OF WADSWORTH	0	LIBERTY RD	SPITERI		MDS	0.114991	4000
WADS	084-160-24	TOWN OF WADSWORTH	190	LIBERTY RD	SPITERI		MDS	0.230005	4000
TR/CYN	084-292-02		32200	CANTON DR	STANCO		MDR	17.549999	4000
TR/CYN	084-282-25		31700	CANTON DR	TESTOLIN FAMILY 2007 TRUST		MDR	8.699	4000
TR/CYN	084-282-24		31830	CANTON DR	TESTOLIN FAMILY TRUST		MDR	5.005	4000
TR/CYN	084-331-06	STAMP MILL ESTATES 1	465	STAMP MILL DR	THOMAS		MDS	0.264991	4000
TR/CYN	084-344-03	STAMP MILL ESTATES 1	450	DISPENSIA ST	THOMPSON		MDS	0.330992	4000
TR/CYN	084-292-05		33600	CANTON DR	TIBBALS		MDR	3.22	4000
WADS	084-200-80	TOWN OF WADSWORTH	240	SCHOOL ST	TURLEY		MDS	0.310996	4000
TR/CYN	084-343-04	STAMP MILL ESTATES 1	445	DISPENSIA ST	UNDERWOOD		MDS	0.305005	4000
WADS	084-200-44	TOWN OF WADSWORTH	10	VIRGINIA ST	UNION CHURCH		MDS	0.142998	4000
WADS	084-240-31		0	STATE ROUTE 427	UNION PACIFIC RAILROAD COMPANY		PSP	2.238	4000
WADS	084-200-91	TOWN OF WADSWORTH	0	UNSPECIFIED	UNION PACIFIC RAILROAD COMPANY		PSP	17.139999	4000
WADS	084-200-90	TOWN OF WADSWORTH	35	LINCOLN HWY	UNION PACIFIC RAILROAD COMPANY		PSP	0.067998	4000
WADS	084-160-76	TOWN OF WADSWORTH	0	MAIN ST	UNION PACIFIC RAILROAD COMPANY		GC	0.182002	4000
WADS	084-160-80	TOWN OF WADSWORTH	150	MAIN ST	UNITED POST OFFICE INVEST I		PSP	0.517011	4000
TR/CYN	084-282-23		31800	CANTON DR	VAN DYKE		MDR	5.005	4000
WADS	084-220-40	TOWN OF WADSWORTH	0	LINCOLN HWY	WADE & LOGAN COMPANY		MDS	1	4000
WADS	084-220-41	TOWN OF WADSWORTH	0	LINCOLN HWY	WADE & LOGAN COMPANY		MDS	1	4000
WADS	084-220-42	TOWN OF WADSWORTH	110	LINCOLN HWY	WADE & LOGAN COMPANY		MDS	1	4000

WADS	084-640-01	TOWN OF WADSWORTH	0	STATE ROUTE 427	WADE & LOGAN COMPANY	GR	8.488	4000
WADS	084-640-03	TOWN OF WADSWORTH	0	STATE ROUTE 427	WADE & LOGAN COMPANY	GR	34.479	4000
WADS	084-640-02	TOWN OF WADSWORTH	0	STATE ROUTE 427	WADE & LOGAN COMPANY	GR	36.529999	4000
WADS	084-640-07	TOWN OF WADSWORTH	0	STATE ROUTE 427	WADE & LOGAN COMPANY	MDS	46.362999	4000
WADS	084-640-06		0	STATE ROUTE 427	WADE & LOGAN COMPANY LLC	GR	0.230005	4000
WADS	084-200-18	WADSWORTH TOWNSITE	0	ACKLEY AVE	WADSWORTH	NDA	0.107002	4000
WADS	084-200-58	WADSWORTH TOWNSITE	301	RESERVATION ST	WADSWORTH	NDA	0.264991	4000
WADS	084-220-32	TOWN OF WADSWORTH	250	LINCOLN HWY	WADSWORTH MHP LLC	HDS	5.974	4000
TR/CYN	084-292-15		34000	CANTON DR	WALIGORA 1998 TRUST	GC	6.286	4000
TR/CYN	084-292-13		34200	CANTON DR	WALIGORA 1998 TRUST	GC	11.215	4000
TR/CYN	084-292-14		34100	CANTON DR	WALIGORA TRUST	GC	5	4000
TR/CYN	084-292-16		33900	CANTON DR	WALIGORA TRUST	GC	6.591	4000
WADS	084-180-02	WADSWORTH TOWNSITE	293	5TH ST	WBS TRUST	MDS	0.482002	4000
WADS	084-160-18	TOWN OF WADSWORTH	0	LIBERTY RD	WIECHERS FAMILY TRUST	MDS	0.114991	4000
WADS	084-160-08	TOWN OF WADSWORTH	0	MAIN ST	WIECHERS FAMILY TRUST	MDS	0.371993	4000
WADS	084-160-27	TOWN OF WADSWORTH	170	LIBERTY RD	WILDER	MDS	0.230005	4000
WADS	084-180-07	WADSWORTH TOWNSITE	0	STATE ROUTE 427	WILLIAMS	MDS	0.096005	4000
WADS	084-180-06	WADSWORTH TOWNSITE	0	STATE ROUTE 427	WILLIAMS	MDS	0.080005	4000
TR/CYN	084-331-03	STAMPMILL ESTATES 1	470	GOLD CENTER DR	YOUNG	MDS	0.257989	4000
TR/CYN	084-292-10		32600	CANTON DR	YOUNG	MDR	37.549999	4000
TR/CYN	084-292-11		32400	CANTON DR	YOUNG	MDR	12.42	4000
WADS	084-220-51	TOWN OF WADSWORTH	0	LINCOLN HWY	ZAIC	MDS	2.3	4000
WADS	084-220-50	TOWN OF WADSWORTH	239	LINCOLN HWY	ZAIC	MDS	0.866804	4000
WADS	084-200-67	WADSWORTH TOWNSITE	0	UNSPECIFIED	ZIEGLER	MDS	0.128994	4000
WADS	084-200-14	WADSWORTH TOWNSITE	0	PACIFIC AVE	ZIEGLER	MDS	0.221006	4000
WADS	084-200-13	WADSWORTH TOWNSITE	200	RESERVATION ST	ZIEGLER	MDS	0.417998	4000

**COOPERATIVE AGREEMENT
TRUCKEE MEADOWS FIRE PROTECTION DISTRICT
AND THE PYRAMID LAKE PAIUTE TRIBE FOR
PROVISION OF EMERGENCY RESPONSE TO THE WADSWORTH AREA**

This Cooperative Agreement ("Agreement") is made and entered into by and between the Truckee Meadows Fire Protection District, a fire district organized pursuant to chapter 474 of the Nevada Revised Statutes (hereinafter "District") and the Pyramid Lake Paiute Tribe Of Nevada, a sovereign, federally recognized Indian Tribe (hereinafter "the Tribe").

WHEREAS, the District is authorized by NRS 277.180 to enter into interlocal and cooperative agreements with other public agencies for the joint and operative use of fire-fighting resources for the protection of property and the prevention and suppression of fire; and

WHEREAS, the Tribe, as a sovereign, federally recognized Indian Tribe, governed by a Tribal Council established pursuant to Article III, section 1 of the Tribe's constitution and the Bylaws of the Pyramid Lake Paiute Tribe, is authorized to and does provide fire protection and medical first response services to its members, and further is authorized to enter into related contracts and agreements with other public agencies; and

WHEREAS, the Tribe is responsible for and fully capable of providing structural and wildland fire suppression and emergency medical service response on Tribal reservation lands; and

WHEREAS, the District desires to have the Tribe provide assistance for fire suppression and emergency medical response services to the privately owned parcels in the Wadsworth area described in Exhibit "A" attached hereto, and the Tribe is ready, willing and able to do so; and

WHEREAS, the District desires to donate to the Tribe, certain rolling stock and use of its Wadsworth Fire Station in the provision of these services; and

WHEREAS, the Tribe currently maintains a roster of volunteer firefighters in the Wadsworth area, and whereby the Tribe's operation of the District's Wadsworth Fire Station enhances the service level to the Tribe and to the District's residents of the Wadsworth area;

NOW THEREFORE, it is agreed between the parties as follows:

1. FIRE PROTECTION AND EMERGENCY MEDICAL SERVICES. On the effective date of this Agreement the Tribe agrees to provide automatic aid assistance to all fire related and emergency medical incidents to the Wadsworth parcels described in Exhibit "A," attached hereto and incorporated herein by this reference. The quality and level of those services shall be consistent with the Tribe's current service standards and at a minimum no less than those standards practiced in the industry under similar circumstances. The parties mutually agree that no patient transport will be provided. The Tribe will only transport patients from the District's area if said transports are agreed to between the Tribe and REMSA under a separate cooperative agreement, so as not to violate the franchise agreement.

2. **EFFECTIVE DATE AND TERM OF AGREEMENT.** This Agreement is effective upon the date of last signature hereto. The term of this Agreement shall be 3 years and shall be deemed automatically renewed, subject to the review described next, for successive 3 year terms effective on July 1 of the applicable fiscal year, until terminated pursuant to this Agreement. However, the parties agree to report to their respective governing bodies, at least 60 days prior to expiration of the applicable 3 year term, concerning the effectiveness of this Agreement.

3. **COMPENSATION, LEASE AND IN-KIND SERVICES.** In consideration of the Tribe's consent to provide the services described in this Agreement, the parties agree that District will donate the following to the Tribe:

- a. *Equipment.* District determines it does not need and agrees to transfer title, ownership and control to the Tribe of the following pieces of fire apparatus, as is:

One 2005 Patrol truck: VIN 1GDJK34U95E306603

One 1991 Water Tender: VIN 1FDPK84PXMVA15527

- b. *Fire Station and Grounds:* District also agrees to provide use of the Wadsworth Fire station, including building, grounds and appurtenances thereto for the amount of one dollar per year. District shall maintain insurance and pay for costs of utilities. The Tribe shall provide general and regular maintenance and cleaning of the station and surrounding grounds. The District reserves the right of unrestricted access to the station to inspect and perform repairs. The District shall be responsible for major repairs to the station, grounds and appurtenances.
- c. *Training:* District shall provide the Tribe semi-annual training on topics requested by the Tribe. Training should be conducted on the reservation and should meet or exceed the standards set forth by the district for their volunteer firefighters.

4. **TERMINATION.** This Agreement may be terminated by either party without cause upon delivery to the other party, at least 120 days prior to effective termination, of a written notice of termination.

5. **EMPLOYMENT/VOLUNTEER STATUS.** The Tribe shall, during the entire term of this Agreement, be construed to be an independent contractor and nothing in this Agreement is intended nor shall be construed to create an employer-employee relationship between employees of any of the parties hereto. Except as expressly provided in this Agreement, the Tribe shall be responsible for management of and costs associated with the Tribe's employees and agents.

6. **LIABILITY OF PARTICIPATING AGENCIES.**

- A. To the extent limited in accordance with NRS 41.0305 to NRS 41.039, as well as applicable Tribal and federal law, each party hereto agrees to indemnify, hold harmless and defend the other participating agencies, their officers, employees, volunteers and agents from and against all liability, claims, actions, damages, losses, and expenses, including but not limited to reasonable attorneys' fee and costs, arising

out of any alleged negligent or willful act or omissions of a party, its officers, employees and agents arising out of the performance of this Agreement. Each party may assert all available defenses, including but not limited to the defense of sovereign immunity as appropriate in all cases. The District's obligation for actions sounding in tort is limited in accordance with the provisions of NRS 41.035.

- B. Each party is responsible for its respective employment or volunteer matters, and the other party shall have no obligations with respect to, the following:
- a. Withholding income taxes, FICA or any other taxes or fees
 - b. Industrial insurance
 - c. Participation in any group insurance plans available to employees
 - d. Participation or contribution by either the employing agency or the participating agencies to the Public Employees Retirement System or any equivalent Tribe or federal system
 - e. Accumulation of vacation leave or sick leave
 - f. Unemployment compensation coverage provided by the participating agencies
- C. To the extent limited in accordance with NRS 41.0305 to NRS 41.039, as well as applicable Tribal and federal law, the parties hereto shall indemnify and hold the other harmless from liability for damages, costs, penalties, liabilities and expenses arising or incurred because of, incident to, or otherwise with respect to any such taxes or fees. The employing agency's employees, volunteers, agents, or representatives shall not be considered employees, agents or representatives of other participating agencies. Each agency will assert the defense of sovereign immunity as appropriate in all cases. The District's obligation for actions sounding in tort is limited in accordance with the provisions of NRS 41.035.

7. **NOTICE.** All notices or other communications required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if delivered personally in hand, by telephonic facsimile with simultaneous regular mail, or mailed certified mail, return receipt requested, postage prepaid on the date posted and addressed to the other parties as follows:

To the Tribe: Tribal Chairman
Pyramid Lake Paiute Tribe
P.O. Box 256
Nixon, NV 89424

To the District: Truckee Meadows Fire Protection District
Attn: Fire Chief
P.O. Box 11130
Reno, NV 89520

8. **ASSIGNMENT.** Neither party shall assign, transfer nor delegate any rights, obligations or duties under this Agreement without the prior written consent of the other party.

9. **ENTIRE AGREEMENT & SEVERABILITY.** This Agreement contains all of the commitments and agreements of the parties on the subject matter of this Agreement. Oral and written commitments not contained herein shall be of no force or effect to alter any term of this Agreement. In the event any one or more of the terms, sentences, paragraphs, or provisions contained herein shall for any reason be held invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other terms, sentences, paragraphs or provisions, and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

IN WITNESS THEREOF, the parties hereto have approved this Agreement and have caused this Agreement to be executed by their respective officers on the date next to the signatures.

TRUCKEE MEADOWS FIRE PROTECTION
DISTRICT

PYRAMID LAKE PAUITE TRIBE

Dated this ___ day of _____, 2015

Dated this ___ day of _____, 2015

By: _____
Marsha Berkbigler, Chairman
Board of Fire Commissioners

By: _____
Elwood Lowery, Chairman
Tribal Council

ATTEST:

ATTEST:

The attached document was submitted to the **Truckee Meadows Fire Protection District** during the meeting held on 2-10-15.
by Chief Moore
for Agenda Item No. 4
and included here pursuant to NRS 241.020(7) as amended by AB65 of the 2013 Legislative Session.



CERTIFICATE OF RECOGNITION

Presented To

Patrick Countryman

For

Exemplary Performance and Service
Wherby Engine Company Assisted with the
Delivery of a baby Girl
on January 23rd

Awarded this 10th day of February, 2015

Charles Moore, Fire Chief
Truckee Meadows Fire Protection District

Marsha BerkBigler, Chair
Truckee Meadows Fire Protection District
Board of Fire Commissioners

15-00151



CERTIFICATE OF RECOGNITION

Presented To

Scott Stephenson

For

Exemplary Performance and Service
Wherby Engine Company Assisted with the
Delivery of a baby Girl
on January 23rd.

Awarded this 10th day of February, 2015

A handwritten signature in black ink, appearing to be "C Moore", written over a horizontal line.

Charles Moore, Fire Chief
Truckee Meadows Fire Protection District

A handwritten signature in black ink, appearing to be "Marsha BerkBigler", written over a horizontal line.

Marsha BerkBigler, Chair
Truckee Meadows Fire Protection District
Board of Fire Commissioners



CERTIFICATE OF RECOGNITION

Presented To

Mark Drury

For

Exemplary Performance and Service
Wherby Engine Company Assisted with the
Delivery of a baby Girl
on January 23rd

Awarded this 10th day of February, 2015

A handwritten signature in black ink, appearing to read "C Moore", written over a horizontal line.

Charles Moore, Fire Chief
Truckee Meadows Fire Protection District

A handwritten signature in black ink, appearing to read "Marsha BerkBigler", written over a horizontal line.

Marsha BerkBigler, Chair
Truckee Meadows Fire Protection District
Board of Fire Commissioners

TMFPD

Extrication Accident

I-80 Westbound at CA Stateline

February 6, 2015

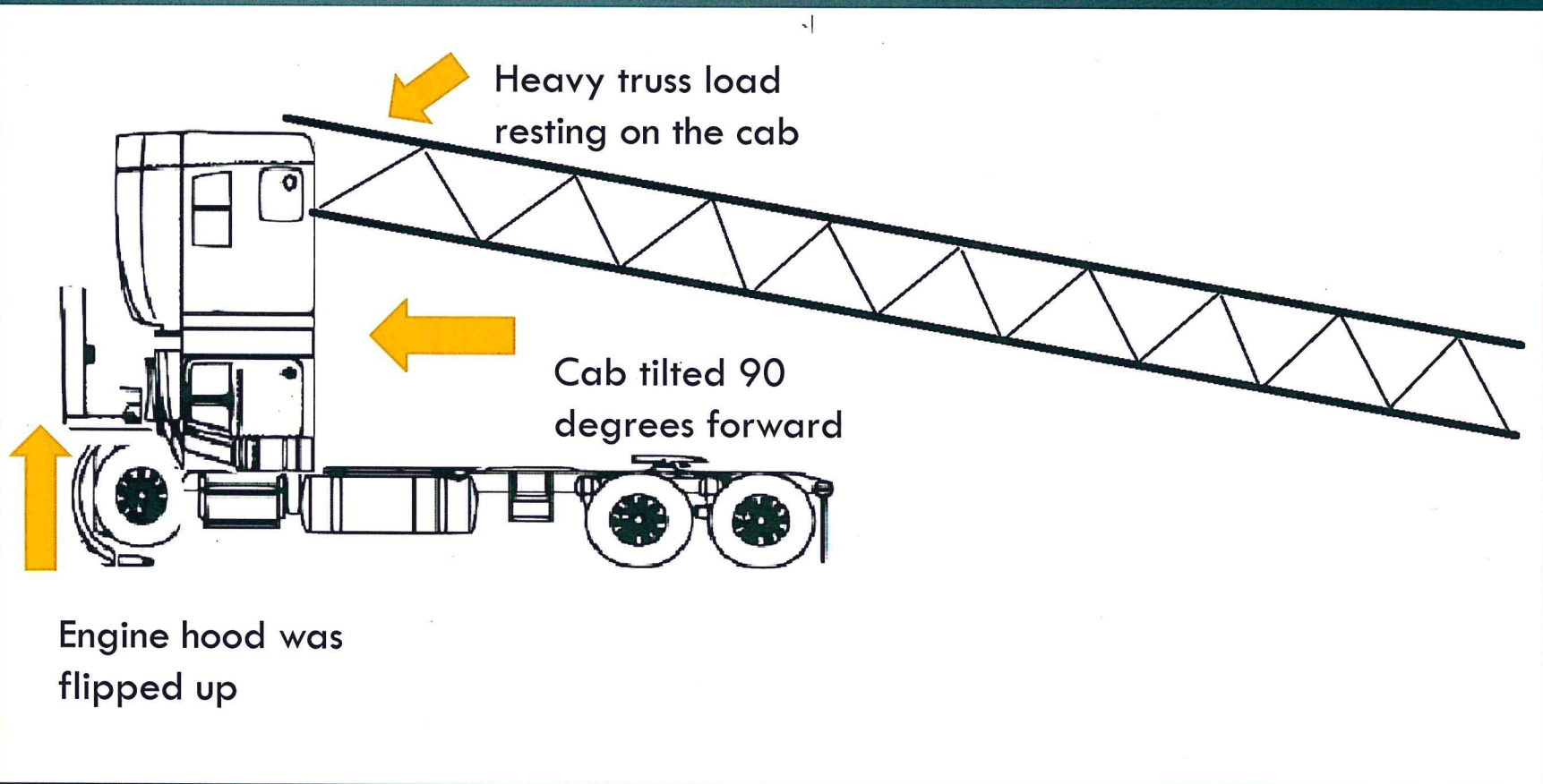
Battalion Chief Kukulus

15-0015F

Background

- Accident occurred at approx. 1300 hrs.
- BC4, E35, E15, HR15, & E351 responded from TMFPD.
- High winds, rain, and cool during incident.
- The truck was traveling Westbound at highway speeds when the wind blew it into the jersey wall and then off the shoulder where it traveled several hundred yards before crashing into a drainage.
- The truck was carrying a heavy load of metal/wood web trusses which shifted forward into/onto the cab and were resting on the cab, several inches up off of the trailer.
- The driver was the only victim and was trapped, but stable.

Approximately the configuration of the cab post-accident



Incident Location (approx. 40' off the shoulder and 15' below road grade)



Initial incident priorities were stabilization of the vehicle and the load it was carrying. Crews placed struts on low side of truck and wrapped the load with straps back to a tree.

Apparatus positioning was limited due to CHP initially unwilling to close the #2 lane. Vehicles were repositioned to place the heavy rescue nearest to the truck.



Stabilization



The load had slid forward and was resting on top of the cab on the front end, off of the trailer approximately 10" in the air.

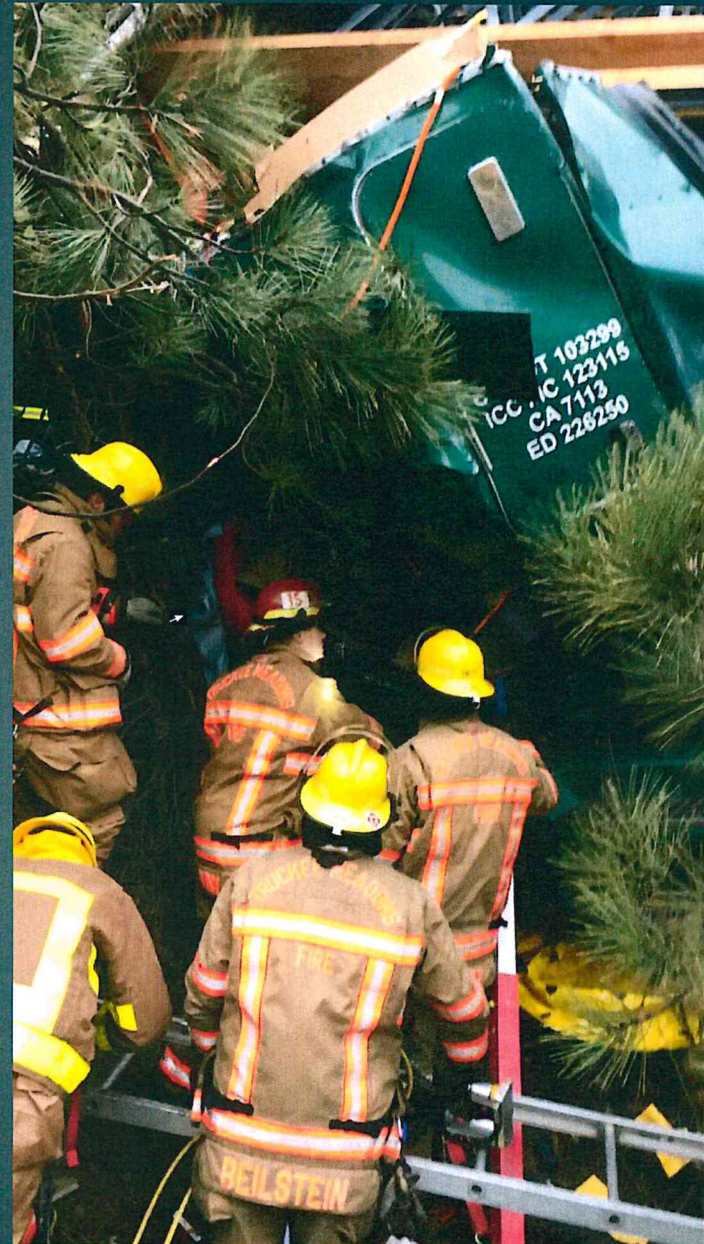
View from passenger side

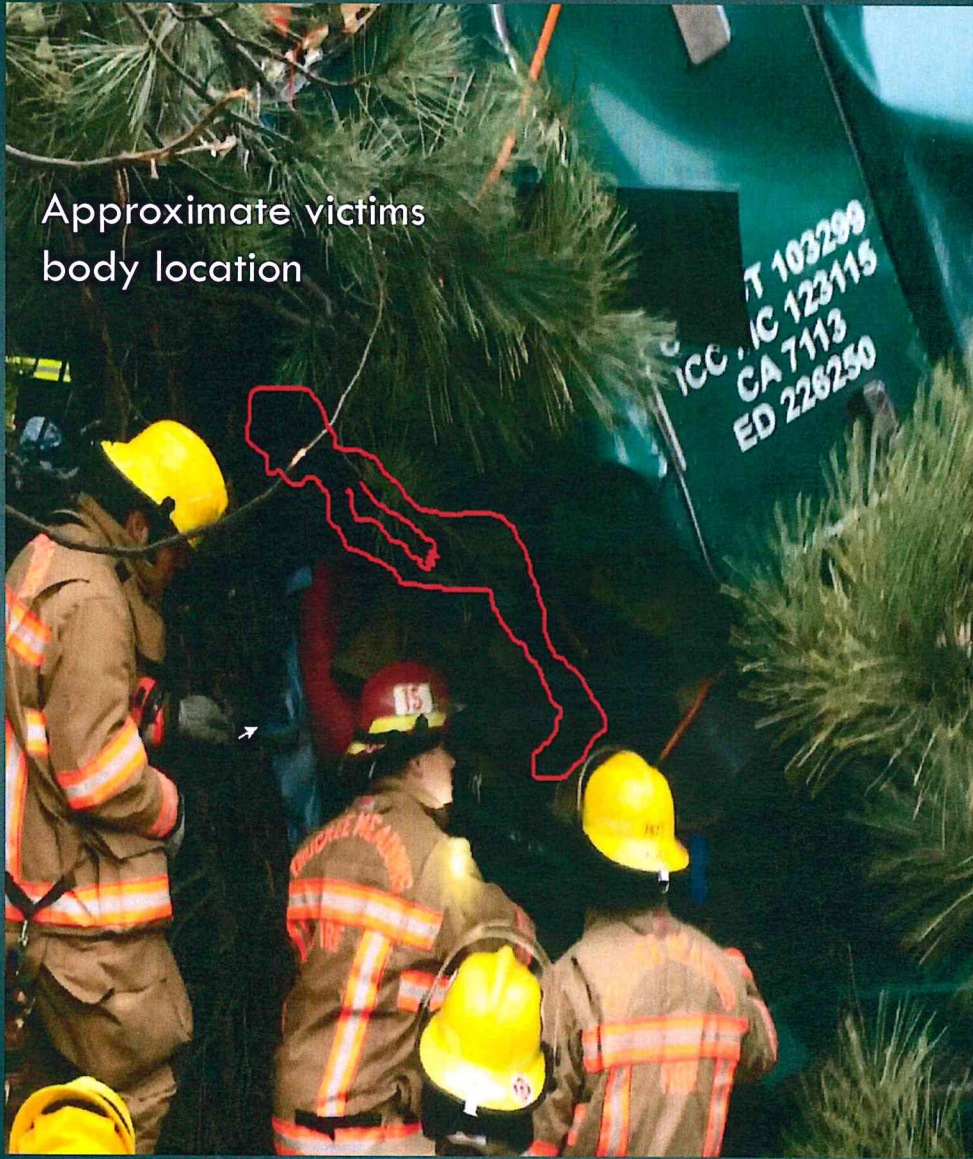


Crews could not initially access the patient, so simultaneous operations were undergoing attempting to make access from the top side, and through the passengers side. Patient access was made approximately 45 minutes into the incident.



Victim was conscious and stable laying face down towards the windshield of the cab. Victims legs were pinned between the drivers seat and the dashboard.



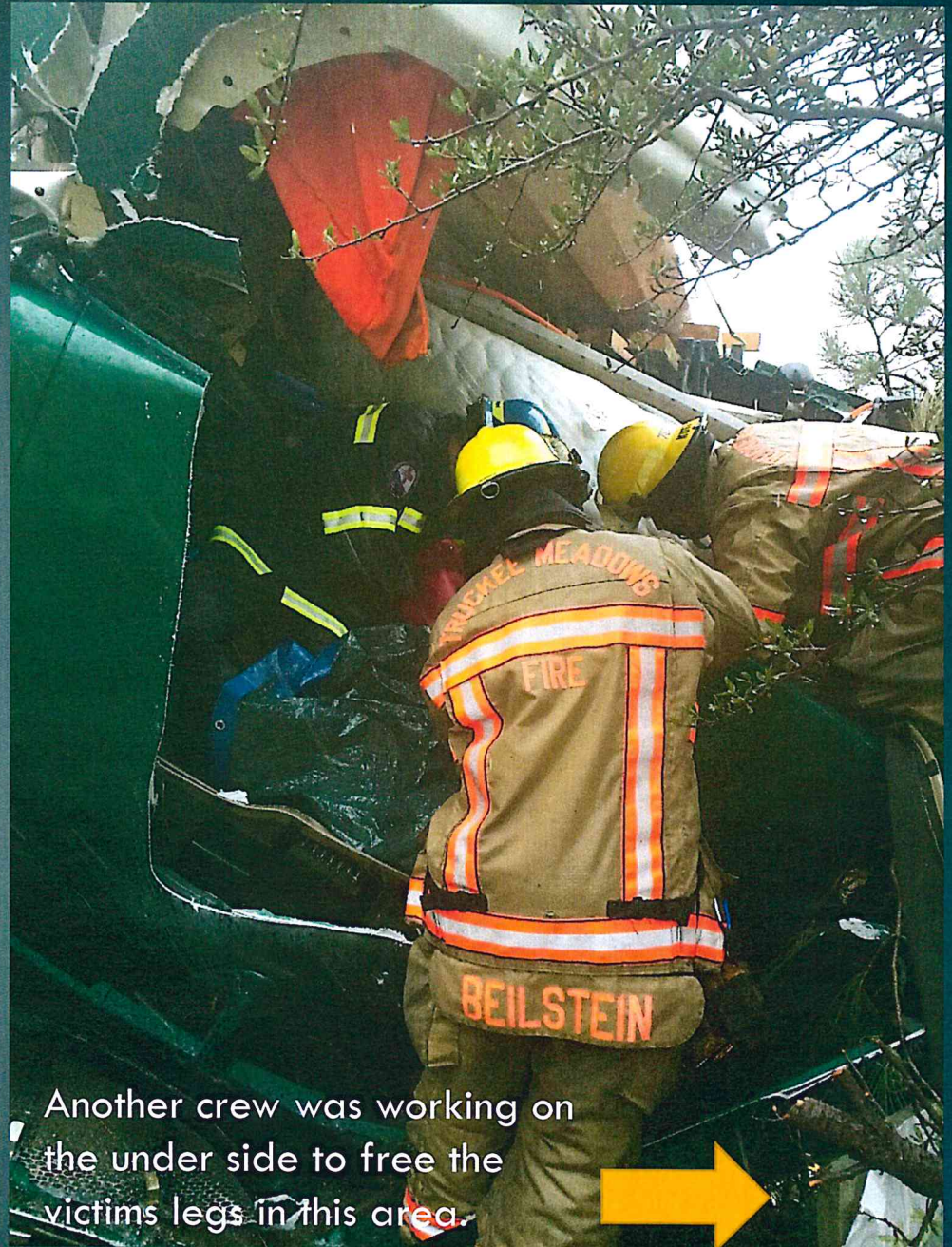


Approximate victims
body location



Close-up of leg
entrapment (right leg
behind left leg).

This view shows the hood of the engine compartment cut away and the roof of the cab cut away behind that. The victim is under the tarp, face down.



Another crew was working on the under side to free the victims legs in this area.

Video of Scene



Quarterly EMS Oversight Data Report

A performance analysis of the EMS system in Washoe County

15-00157

Index of Data Tables

Summary of Regional Data

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Table 1.1	System wide data (REMSA) based on priority
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Table 1.2	Clock start – clock stop difference for REMSA in all jurisdictions
Table 1.3	Alarm time – on scene difference for fire in all jurisdictions
Table 1.4a	Time difference between arrival times – REMSA arrived before fire
Table 1.4b	Number of calls and time differences – REMSA arrived first
Table 1.5a	Time differences between arrival times – fire arrived before REMSA
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City of Sparks

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Jurisdiction Summary

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Table 2.4a	Time differences between arrival times – REMSA arrived first
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Table 2.5a	Time differences between arrival times – Sparks Fire Dept. arrived first
Table 2.5b	Number of calls and time differences – Sparks Fire Dept. arrived first

City of Sparks - District 5.1 Special Study Area

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Special Study Area Summary

Table 3	All call data based on priority
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Table 3.4a	Time differences between arrival times – REMSA arrived first
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City of Reno

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Jurisdiction Summary

Table 4	All call data based on priority
Table 4a	Alarm time of fire and clock start of REMSA
Table 4.1	All call data, split by day and night time hours
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Table 4.5a	Time differences between arrival times – Reno Fire Dept. arrived first

Table 4.5b Number of calls and time differences – Reno Fire Dept. arrived first

Truckee Meadows Fire Protection District

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Jurisdiction Summary

Table 5 All call data based on priority

Table 5a Alarm time of fire and clock start of REMSA

Table 5.1 All call data, split by day and night time hours

Table 5.2 Clock start – clock stop difference for REMSA

Table 5.3 Alarm time – on scene difference for Truckee Meadows

Table 5.4a Time differences between arrival times – REMSA arrived first

Table 5.4b Number of calls and time differences – REMSA arrived first

Table 5.5a Time differences between arrival times – Truckee Meadows arrived first

Table 5.5b Number of calls and time differences – Truckee Meadows arrived first

Appendices

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Appendix A Response Zone Information

Appendix B Statistical Terms and Definitions

Appendix C EMS Terms and Definitions

System Wide Information

SUMMARY:

Washoe County has a two tiered system response to medical emergency calls. The call routes through the Public Safety Answering Point (PSAP) and then is forwarded to REMSA for Emergency Medical Dispatch (EMD). The performance of the EMS System within Washoe County is dependent on all parties working together. The data collected and analyzed for the region shows that the system is largely working as expected with a few outliers. Eighty-four percent (84%) of the time, the fire agency is being dispatched prior to REMSA, which is in line with the two tiered system. Additionally, fire is waiting for REMSA to arrive on scene 0.76% of the time past the denoted response time (see table 1.5b on page 14).

The analysis conducted was on the matching calls between REMSA and jurisdictional fire agencies. For Quarter 1 (Q1) REMSA responded to 14,326 calls for service but only 8,548 or 59.6% matched to a fire agency call. Included in the remaining 40.4% are cancelled calls, against medical advice (AMA) calls or multiple units responding to a single call. An interesting observation is that overall fire arrives 59% of the time before REMSA on Priority 1 calls. However, that percentage changes depending on the time of day. System-wide, fire arrives first on scene 61% of the time during the daytime hours (6am-6pm) but REMSA arrives first 52% of the time during nighttime hours (6pm-6am.) Regardless of time of day, statistically, fire arrives prior to REMSA more on Priority 2 and 3 calls.

Analyzing the data from a citizen's perspective, some observations can be made. For example, according to this data, the longest a citizen waited for a responding unit, after the call was alarmed to an EMS agency (either fire or REMSA) was 1 hour and 8 minutes. This was a Priority 3 call during the day in the City of Sparks. Currently, the EMS Oversight Program does not receive PSAP data; therefore, additional time would be added to this variable when reviewing from a citizen's perspective. With the two tiered system, the EMS Oversight Program also looked from the citizen's perspective on transport to a hospital. The longest a citizen had to wait for transport, after a fire agency was already on scene was 54 minutes and 14 seconds. This was a Priority 3 call during the day in the City of Sparks. Further analysis would be needed to determine if these were the same call.

A challenge for Q1 was the ability to discern between transports, cancelled and AMA calls for Priority 2 and 3 calls due to the Computer-aided Dispatch (CAD) system upgrade by REMSA. We have accurate data for Priority 1, as it is a franchise requirement. Analysis on cancelled calls and system wide transports will be made available beginning in Quarter 2, and will be a standard data table.

In subsequent reports, the EMS Oversight Program will begin looking at the negative response times that have been reported. It is not uncommon for response organizations to be requested for help by a private citizen or to have a response unit observe the incident requiring response, making the dispatch for service and arrival at location virtually indistinguishable. However, logging a several minute deficit in time rather than a zero response time requires some further exploration and explanation.

STATISTICAL INFORMATION:

Table 1 depicts the information for Q1 and the calls reported and matched from each organization. LinkPlus is the data program utilized to make a probabilistic match of the call information from fire and REMSA for analysis. The information contained in the report shows the original match information and the SAS analysis percentages. This is split by jurisdiction as well as priority. The highlighted information indicates the actual numbers utilized in the report, duplicate response units to single calls have been taken out.

Table 1

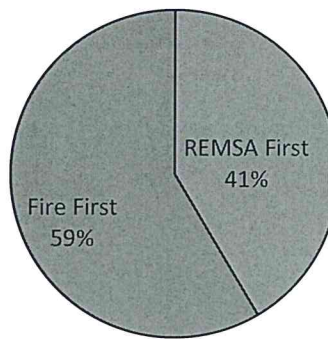
	Reno	Sparks	Truckee	REMSA
Original	5992	2432	1913	14326
LinkPlus Match	4315	1920	1180	
SAS cleaning/Use for Analysis	5108	2090	1350	
Percent positive match from LinkPlus	72.0%	78.9%	68.2%	
Percent Matches (Link + Manual)	89.7%	92.4%	84.3%	
Percent Use for Analysis *	85.2%	85.9%	70.5%	
% by Priority	P1	53.9%	43.7%	58.4%
	P2	35.5%	38.7%	34.3%
	P3	12.3%	17.6%	19.2%

*Decreased % due to deletion of multiple responding units to single call.

Table 1.1: Regional response data indicating the first responding unit on scene

First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	1880	44.3%	1296	42.4%	368	29.6%	3544	41.5%
Fire First	2368	55.7%	1759	57.6%	877	70.4%	5004	58.5%
Total	4248	100.0%	3055	100.0%	1245	100.0%	8548	100.0%

Regional Response Percentage



Total Number of Calls by Priority

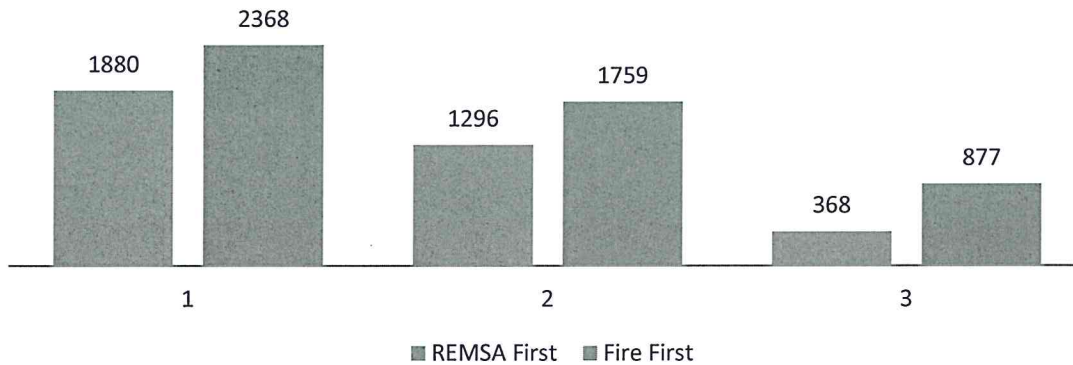


Table 1.1a: The frequency alarm time for fire occurs before REMSA dispatches an ambulance.

Fire Alarm first	Frequency	Percent
No	1387	16.23
Yes	7161	83.77

Table 1.1b: Regional response data indicating the first responding unit on scene based on time of day.

Day (6am-6pm)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	953	38.7%	649	38.1%	185	25.2%	1787	36.4%
Fire First	1512	61.3%	1056	61.9%	549	74.8%	3117	63.6%
Total	2465	100.0%	1705	100.0%	734	100.0%	4904	100.0%

Night (6pm-6am)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	927	52.0%	647	47.9%	183	35.8%	1757	48.2%
Fire First	856	48.0%	703	52.1%	328	64.2%	1887	51.8%
Total	1783	100.0%	1350	100.0%	511	100.0%	3644	100.0%

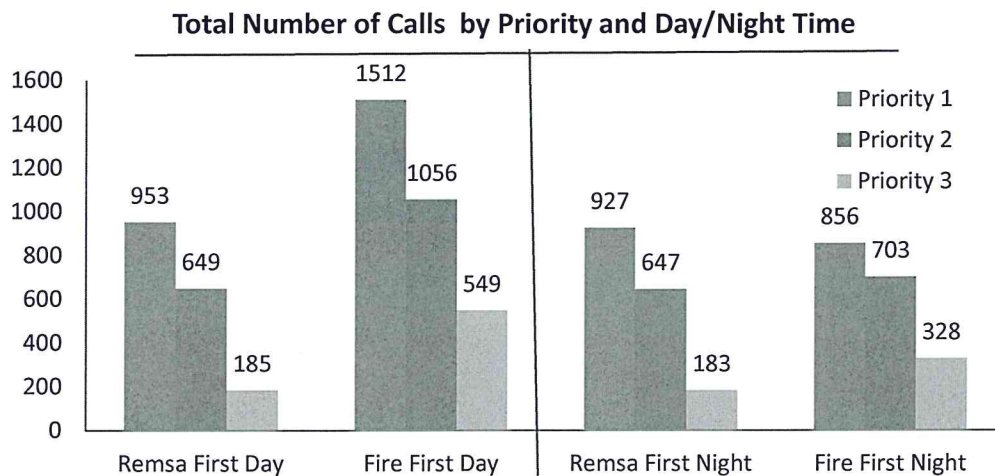
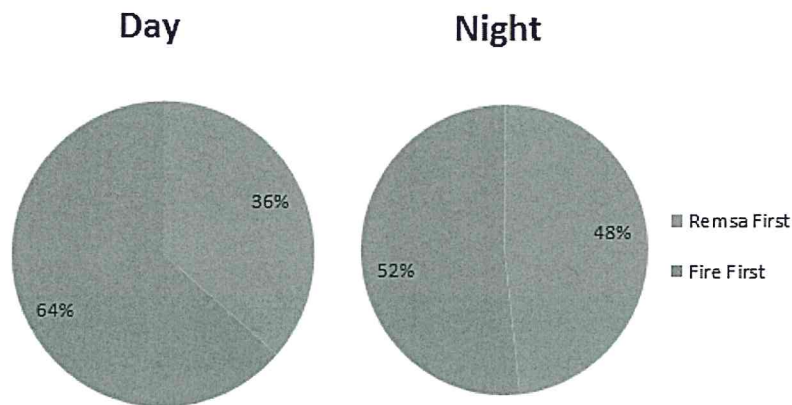


Table 1.2: Clock start – clock stop difference for REMSA in all jurisdictions

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:12	0:48:56	-0:03:48	0:03:22	0:09:50	0:05:39
2	0:06:50	0:43:28	-0:06:24	0:03:57	0:11:35	0:06:07
3	0:09:19	1:08:20	-0:00:03	0:05:40	0:16:18	0:08:06
All	0:06:53	1:08:20	-0:06:24	0:04:07	0:11:36	0:06:04

Priority Number	Day					
	Mean	Max	Min	StdDev	P90	Median
1	0:06:27	0:48:56	-0:00:05	0:03:27	0:10:05	0:05:53
2	0:07:05	0:39:15	-0:06:24	0:04:02	0:11:39	0:06:23
3	0:09:52	1:08:20	0:00:17	0:06:10	0:17:01	0:08:35
All	0:07:11	1:08:20	-0:06:24	0:04:19	0:12:06	0:06:19

Priority Number	Night					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:52	0:38:56	-0:03:48	0:03:12	0:09:18	0:05:25
2	0:06:30	0:43:28	-0:00:03	0:03:49	0:11:17	0:05:47
3	0:08:32	0:36:30	-0:00:03	0:04:46	0:14:27	0:07:33
All	0:06:28	0:43:28	-0:03:48	0:03:48	0:10:41	0:05:45

This table depicts the difference between clock start time and clock stop time for all REMSA calls, regardless of jurisdiction.

TERMS and DEFINITIONS:

Mean: Sum of all the observations of a variable, divided by the number of observations.
Minimum: The smallest observation of a given variable.
Maximum: The largest observation of a given variable.
Standard Deviation (StdDev): The measure of how observations vary around the mean.
90th Percentile (P90): The observation at which 90% of all the values are equal or lower.
Median: Middle value in the list of observations.

Table 1.3: Alarm time – on scene difference for fire in all jurisdictions

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:39	1:26:22	0:00:00	0:03:32	0:09:43	0:06:04
2	0:06:57	1:39:58	0:00:00	0:03:38	0:10:17	0:06:20
3	0:07:03	2:28:54	0:00:01	0:04:49	0:10:11	0:06:37
All	0:06:49	2:28:54	0:00:00	0:03:47	0:09:59	0:06:14

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:27	0:41:51	0:00:00	0:03:00	0:09:16	0:05:56
2	0:06:43	0:29:47	0:00:00	0:02:54	0:10:03	0:06:14
3	0:06:48	0:20:28	0:00:01	0:02:41	0:10:09	0:06:27
All	0:06:36	0:41:51	0:00:00	0:02:55	0:09:43	0:06:06

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:56	1:26:22	0:00:00	0:04:10	0:10:06	0:06:17
2	0:07:14	1:39:58	0:00:02	0:04:23	0:10:33	0:06:27
3	0:07:24	2:28:54	0:01:40	0:06:47	0:10:14	0:06:45
All	0:07:06	2:28:54	0:00:00	0:04:42	0:10:17	0:06:24

This table depicts the difference between alarm time and on-scene time for all fire organizations calls, regardless of jurisdiction.

TERMS and DEFINITIONS:

Mean: Sum of all the observations of a variable, divided by the number of observations.
Minimum: The smallest observation of a given variable.
Maximum: The largest observation of a given variable.
Standard Deviation (StdDev): The measure of how observations vary around the mean.
90th Percentile (P90): The observation at which 90% of all the values are equal or lower.
Median: Middle value in the list of observations.

Table 1.4a: Time difference between arrival times – REMSA arrives before fire

	REMSA First					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:08	0:25:55	0:00:00	0:02:34	0:04:34	0:01:27
2	0:02:47	1:03:30	0:00:00	0:03:51	0:06:07	0:01:46
3	0:02:43	0:31:42	0:00:00	0:03:39	0:05:31	0:01:44
All	0:02:26	1:03:30	0:00:00	0:03:13	0:05:14	0:01:36

	Day (6am-6pm)					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:04	0:25:55	0:00:00	0:02:37	0:04:17	0:01:21
2	0:02:39	1:03:30	0:00:00	0:03:55	0:05:56	0:01:38
3	0:03:24	0:31:42	0:00:00	0:04:37	0:06:24	0:01:56
All	0:02:25	1:03:30	0:00:00	0:03:24	0:05:15	0:01:31

	Night (6pm-6am)					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:12	0:24:44	0:00:00	0:02:32	0:04:51	0:01:32
2	0:02:54	0:41:29	0:00:00	0:03:47	0:06:21	0:01:54
3	0:02:03	0:18:27	0:00:01	0:02:06	0:04:01	0:01:37
All	0:02:27	0:41:29	0:00:00	0:03:02	0:05:12	0:01:39

This table depicts the time difference (in minutes) for arrival at call destination, when REMSA arrives before fire.

TERMS and DEFINITIONS:

<p>Mean: Sum of all the observations of a variable, divided by the number of observations.</p> <p>Minimum: The smallest observation of a given variable.</p> <p>Maximum: The largest observation of a given variable.</p> <p>Standard Deviation (StdDev): The measure of how observations vary around the mean.</p> <p>90th Percentile (P90): The observation at which 90% of all the values are equal or lower.</p> <p>Median: Middle value in the list of observations.</p>
--

Table 1.4b: Number of calls and time differences – REMSA arrived first

Priority	Time interval between REMSA and Fire								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	699	1024	118	26	6	6	1	0	1880
2	417	703	126	32	8	6	0	4	1296
3	120	202	32	5	6	0	2	1	368
Total	1236	1929	276	63	20	12	3	5	3544

Day (6am-6pm)									
Priority	Time interval between REMSA and Fire								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	379	501	53	12	5	2	1	0	953
2	218	344	62	16	4	4	0	1	649
3	53	100	20	4	5	0	2	1	185
Total	650	945	135	32	14	6	3	2	1787

Night (6pm-6am)								
Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	320	523	65	14	1	4	0	927
2	199	359	64	16	4	2	3	647
3	67	102	12	1	1	0	0	183
Total	586	984	141	31	6	6	3	1757

This table utilizes the same information from Table 1.4a but indicates the number of calls that were within the minute time frame. The table corresponds with REMSA arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time.

Number of calls and time differences – REMSA arrived first

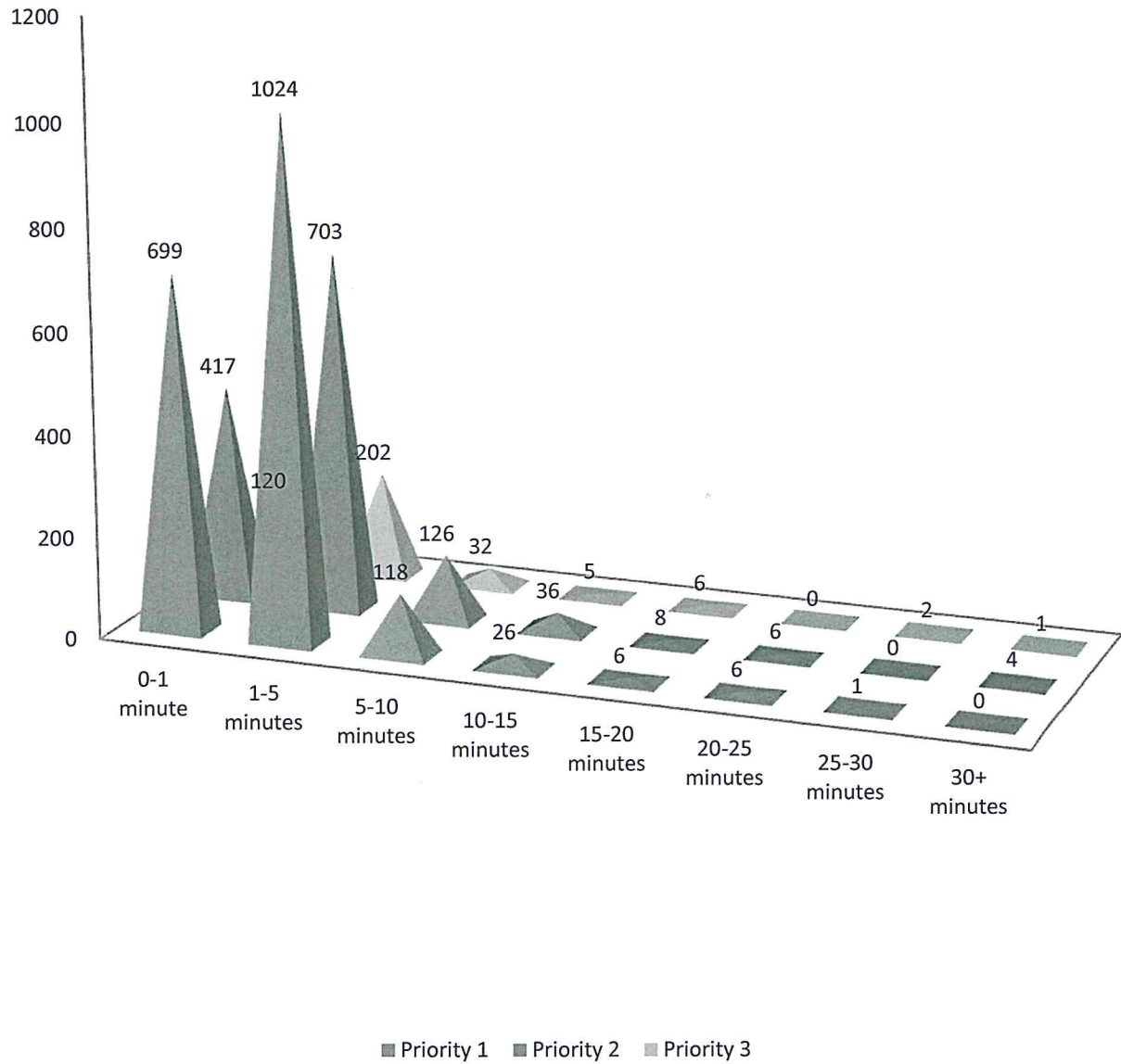


Table 1.5a: Time differences between arrival times – fire arrives before REMSA

	Fire First					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:45	0:43:20	0:00:01	0:03:02	0:06:05	0:01:56
2	0:03:38	0:34:53	0:00:01	0:04:00	0:08:24	0:02:29
3	0:05:20	0:54:14	0:00:01	0:05:29	0:12:03	0:03:44
All	0:03:31	0:54:14	0:00:01	0:04:01	0:08:02	0:02:21

	Day (6am-6pm)					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:55	0:43:20	0:00:01	0:03:11	0:06:19	0:02:05
2	0:03:46	0:29:16	0:00:01	0:04:04	0:08:26	0:02:32
3	0:05:45	0:54:14	0:00:01	0:05:41	0:12:56	0:04:14
All	0:03:42	0:54:14	0:00:01	0:04:09	0:08:15	0:02:29

	Night (6pm-6am)					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:02:29	0:21:44	0:00:01	0:02:44	0:05:35	0:01:38
2	0:03:27	0:34:53	0:00:01	0:03:53	0:08:15	0:02:25
3	0:04:38	0:38:30	0:00:02	0:05:03	0:10:05	0:03:06
All	0:03:13	0:38:30	0:00:01	0:03:45	0:07:35	0:02:06

This table depicts the time difference (in minutes) for arrival at call destination, when fire arrives before REMSA.

TERMS and DEFINITIONS:

Mean: Sum of all the observations of a variable, divided by the number of observations.

Minimum: The smallest observation of a given variable.

Maximum: The largest observation of a given variable.

Standard Deviation (StdDev): The measure of how observations vary around the mean.

90th Percentile (P90): The observation at which 90% of all the values are equal or lower.

Median: Middle value in the list of observations.

Table 1.5b: Number of calls and time differences – fire arrived first

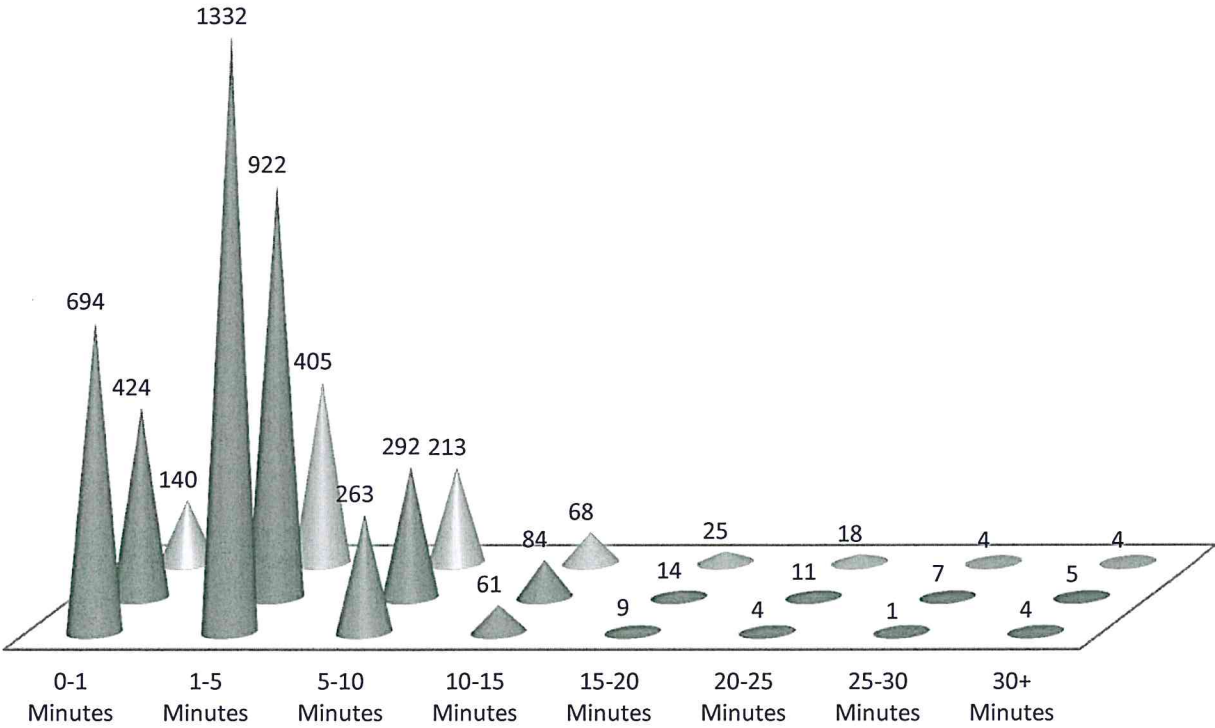
Priority	Time interval between Fire and REMSA								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	694	1332	263	61	9	4	1	4	2368
2	424	922	292	84	14	11	7	5	1759
3	140	405	213	68	25	18	4	4	877
Total	1258	2659	768	213	48	33	12	13	5004

Day (6am-6pm)									
Priority	Time interval between Fire and REMSA								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	410	863	188	40	5	3	1	2	1512
2	234	559	188	54	8	6	7	0	1056
3	81	234	149	49	18	12	4	2	549
Total	725	1656	525	143	31	21	12	4	3117

Night (6pm-6am)								
Priority	Time interval between Fire and REMSA							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	284	469	75	21	4	1	2	856
2	190	363	104	30	6	5	5	703
3	59	171	64	19	7	6	2	328
Total	533	1003	243	70	17	12	9	1887

This table utilizes the same information from Table 1.5a but indicates the number of calls that were within the minute time frame. The below table corresponds with fire agencies arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time. The call information indicates that region wide fire agencies are waiting 0.76% of the time above the denoted response time.

Number of calls and time differences – fire arrived first



■ Priority 1 ■ Priority 2 ■ Priority 3

City of Sparks

SUMMARY:

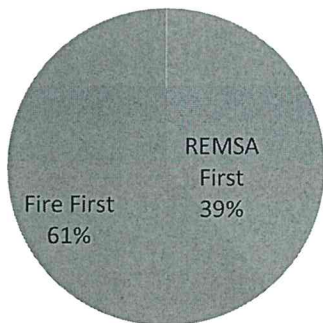
In Q1, City of Sparks matched 2,090 medical calls for service. The data indicates a fire response arriving prior to REMSA an overall 61.3% of the time, 65% during the day and 56% during the evening. One data element that is concerning and needs further exploration fire alarm first chart indicates that only 60% of the time does the SFD alarm ring before REMSA dispatches an ambulance. Investigation into this issue has already begun and preliminary data suggests that 80% of the calls have a difference of 1 minute or less between the data elements. The maximum amount of time it took for REMSA to respond to a call within the City of Sparks was 1 hour and 8 minutes, which was a Priority 3 call during the day. The maximum amount of time it took for SFD to respond to a call was 29 minutes and 31 seconds, which was a Priority 1 call during the day. The minimum amount of time for REMSA to respond to a call was negative .03 seconds, which was a Priority 3 call during the night. The minimum amount of time for SFD to respond to a call was 0.01 minutes/seconds, which included both Priority 1 and 2 during both the day and evening hours. Statistically, fire is waiting for REMSA to respond 0.55% of the time, past the denoted response time (see table 2.5b on page 23).

STATISTICAL INFORMATION:

Table 2: Jurisdictional information that indicates the first responding unit on scene.

First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	379	41.5%	313	38.7%	116	31.6%	808	38.7%
Fire First	535	58.5%	496	61.3%	251	68.4%	1282	61.3%
Total	914	100.0%	809	100.0%	367	100.0%	2090	100.0%

REMSA and Sparks Fire Total Percentage



REMSA and Sparks Fire Total Number of Calls by Priority

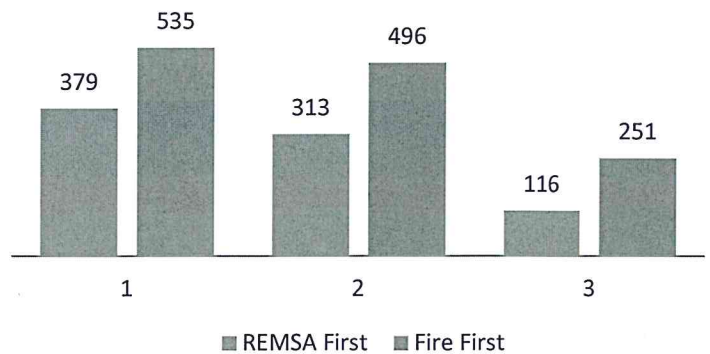


Table 2a: The frequency alarm time for fire occurs before REMSA dispatches an ambulance.

Fire Alarm First	Frequency	Percent
No	839	40.14
Yes	1251	59.86

Table 2.1: Jurisdiction response data, indicating the first responding unit on scene based on time of day.

Day (6am-6pm)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	193	35.9%	175	37.7%	60	27.0%	428	35.0%
Fire First	345	64.1%	289	62.3%	162	73.0%	796	65.0%
Total	538	100.0%	464	100.0%	222	100.0%	1224	100.0%

Night (6pm-6am)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	186	49.5%	138	40.0%	56	38.6%	380	43.9%
Fire First	190	50.5%	207	60.0%	89	61.4%	486	56.1%
Total	376	100.0%	345	100.0%	145	100.0%	866	100.0%

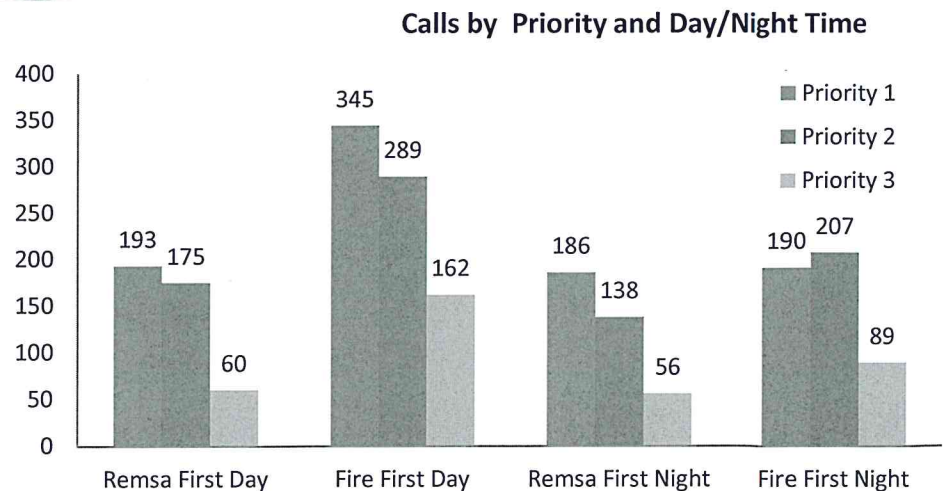
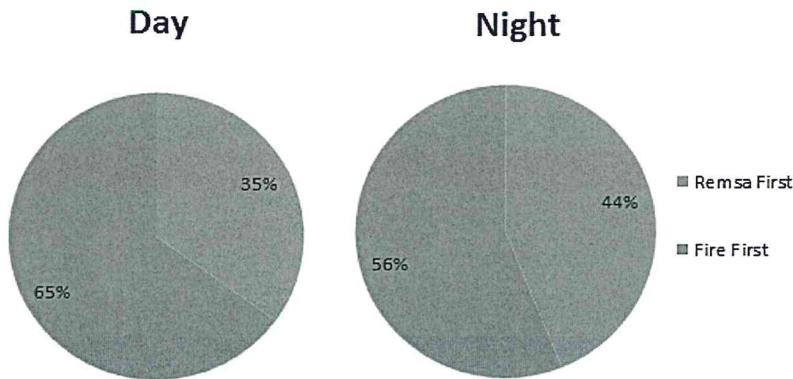


Table 2.2: Clock Start – clock stop difference for REMSA

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:03	0:20:49	0:00:00	0:02:25	0:08:47	0:05:46
2	0:06:48	0:39:15	0:00:14	0:03:22	0:10:13	0:06:16
3	0:09:19	1:08:20	-0:00:03	0:06:26	0:16:16	0:08:01
All	0:06:55	1:08:20	-0:00:03	0:03:57	0:10:37	0:06:15

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:18	0:20:49	0:01:00	0:02:30	0:09:07	0:06:05
2	0:07:03	0:39:15	0:01:02	0:03:33	0:10:42	0:06:32
3	0:10:10	1:08:20	0:00:34	0:07:25	0:17:16	0:08:44
All	0:07:17	1:08:20	0:00:34	0:04:24	0:11:07	0:06:34

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:41	0:17:25	0:00:00	0:02:13	0:08:07	0:05:35
2	0:06:29	0:19:34	0:00:14	0:03:06	0:09:51	0:06:01
3	0:08:01	0:28:21	-0:00:03	0:04:17	0:11:51	0:07:07
All	0:06:24	0:28:21	-0:00:03	0:03:06	0:09:35	0:05:55

This table depicts the difference between the clock start time and the clock stop time for all REMSA calls within the City of Sparks.

Table 2.3: Alarm time – on scene difference for Sparks Fire Department

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:37	0:29:31	0:00:00	0:02:12	0:07:47	0:05:20
2	0:05:59	0:26:47	0:00:16	0:02:21	0:08:30	0:05:41
3	0:06:34	0:20:28	0:00:01	0:02:24	0:09:40	0:06:23
All	0:05:55	0:29:31	0:00:00	0:02:19	0:08:26	0:05:36

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:32	0:29:31	0:00:00	0:02:29	0:07:48	0:05:07
2	0:05:55	0:26:47	0:00:16	0:02:29	0:08:29	0:05:38
3	0:06:34	0:20:28	0:00:01	0:02:33	0:09:40	0:06:24
All	0:05:52	0:29:31	0:00:00	0:02:31	0:08:29	0:05:31

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:44	0:13:49	0:00:00	0:01:43	0:07:44	0:05:38
2	0:06:04	0:16:37	0:00:40	0:02:08	0:08:30	0:05:57
3	0:06:34	0:14:16	0:02:01	0:02:11	0:09:38	0:06:21
All	0:06:00	0:16:37	0:00:00	0:01:59	0:08:21	0:05:48

This table depicts the difference between alarm time and on-scene time for the Sparks Fire Department (SFD).

Table 2.4a: Time differences between arrival times – REMSA arrived first

Priority Number	REMSA First					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:04	0:22:03	0:00:00	0:02:23	0:04:17	0:01:22
2	0:02:24	0:21:38	0:00:00	0:02:53	0:05:52	0:01:35
3	0:02:46	0:27:35	0:00:01	0:04:03	0:05:35	0:01:37
All	0:02:18	0:27:35	0:00:00	0:02:52	0:05:10	0:01:29

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:09	0:22:03	0:00:00	0:02:50	0:04:15	0:01:17
2	0:02:16	0:21:38	0:00:00	0:02:46	0:05:52	0:01:30
3	0:03:36	0:27:35	0:00:04	0:05:15	0:06:40	0:01:53
All	0:02:24	0:27:35	0:00:00	0:03:17	0:05:42	0:01:27

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:01:58	0:10:42	0:00:01	0:01:48	0:04:17	0:01:28
2	0:02:35	0:20:44	0:00:00	0:03:01	0:05:56	0:01:49
3	0:01:53	0:06:25	0:00:01	0:01:44	0:05:06	0:01:12
All	0:02:10	0:20:44	0:00:00	0:02:19	0:04:56	0:01:30

This table depicts the time difference (in minutes) for arrival at call destination, when REMSA arrives before SFD.

Table 2.4b: Number of calls and time differences – REMSA arrived first

Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	137	210	24	6	1	1	0	379
2	112	165	25	9	0	2	0	313
3	44	54	14	1	1	0	2	116
Total	293	429	63	16	2	3	2	808

Day (6am-6pm)								
Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	73	102	12	4	1	1	0	193
2	63	92	15	4	0	1	0	175
3	19	29	8	1	1	0	2	60
Total	155	223	35	9	2	2	2	428

Night (6pm-6am)						
Priority	Time interval between REMSA and Fire					Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=20 and <25	
1	64	108	12	2	0	186
2	49	73	10	5	1	138
3	25	25	6	0	0	56
Total	138	206	28	7	1	380

This table utilizes the same information from Table 2.4a but indicates the number of calls that were within the minute time frame. The table corresponds with REMSA arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time.

Table 2.5a: Time differences between arrival times – SFD arrived first

Priority Number	Fire First					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:26	0:21:44	0:00:01	0:02:23	0:05:06	0:01:52
2	0:03:20	0:29:16	0:00:01	0:03:38	0:07:47	0:02:16
3	0:05:09	0:54:14	0:00:02	0:06:32	0:12:53	0:03:01
All	0:03:19	0:54:14	0:00:01	0:04:06	0:07:18	0:02:09

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:37	0:16:32	0:00:01	0:02:25	0:05:20	0:02:04
2	0:03:36	0:29:16	0:00:01	0:03:51	0:07:44	0:02:29
3	0:05:48	0:54:14	0:00:02	0:06:52	0:13:56	0:04:01
All	0:03:37	0:54:14	0:00:01	0:04:21	0:07:48	0:02:26

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:07	0:21:44	0:00:01	0:02:17	0:04:17	0:01:24
2	0:02:58	0:19:17	0:00:01	0:03:18	0:07:53	0:01:43
3	0:03:59	0:38:30	0:00:03	0:05:44	0:11:19	0:01:55
All	0:02:49	0:38:30	0:00:01	0:03:37	0:06:29	0:01:41

This table depicts the time difference (in minutes) for arrival at call destination, when SFD arrives before REMSA.

Table 2.5b: Number of calls and time differences – SFD arrived first

Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	137	210	24	6	1	1	0	379
2	112	165	25	9	0	2	0	313
3	44	54	14	1	1	0	2	116
Total	293	429	63	16	2	3	2	808

Day (6am-6pm)								
Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	73	102	12	4	1	1	0	193
2	63	92	15	4	0	1	0	175
3	19	29	8	1	1	0	2	60
Total	155	223	35	9	2	2	2	428

Night (6pm-6am)						
Priority	Time interval between REMSA and Fire					Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=20 and <25	
1	64	108	12	2	0	186
2	49	73	10	5	1	138
3	25	25	6	0	0	56
Total	138	206	28	7	1	380

This table utilizes the same information from Table 2.5a but indicates the number of calls that were within the minute time frame. The table corresponds with SFD arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time. This shows that 0.55% of the time SFD is waiting past the denoted response time.

City of Sparks, Zone 5.1

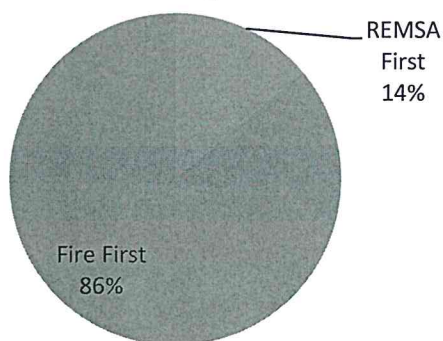
SUMMARY:

The special zone identified for City of Sparks is located in Zone C of Sparks Fire Department District 5, which has a Priority 1 response time of 20:59. For Q1, there were only 36 matched medical calls in this region. The statistical analysis shows that SFD arrived at the call destination 86% of the time first, arriving prior to REMSA during both day and evening hours. The fire alarm first chart indicates that 69% of the time the fire alarm sounds before REMSA dispatches and ambulance. The maximum amount of time it took for REMSA to respond to this special zone was 22 minutes 03 seconds, which was a Priority 3 call during the day. The maximum amount of time it took for SFD to respond to a call was 14 minutes and 58 seconds, which was a Priority 3 call during the day. The minimum amount of time for REMSA to respond to a call was 2 minutes and 55 seconds, which was a Priority 1 call during the day. The minimum amount of time for SFD to respond to a call was 0.00 minutes/seconds, which was a Priority 1 call during day. Statistically, fire is waiting for REMSA to respond 13% of the time, past the denoted response time (see table 3.5b on page 31) in this special zone.

Table 3: Special study area response information that indicates the first responding unit on scene.

First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	2	10.5%	1	7.7%	2	50.0%	5	13.9%
Fire First	17	89.5%	12	92.3%	2	50.0%	31	86.1%
Total	19	100.0%	13	100.0%	4	100.0%	36	100.0%

REMSA and Sparks 5.1 Fire Total Percentage



REMSA and Sparks 5.1 Fire Total Number of Calls by Priority

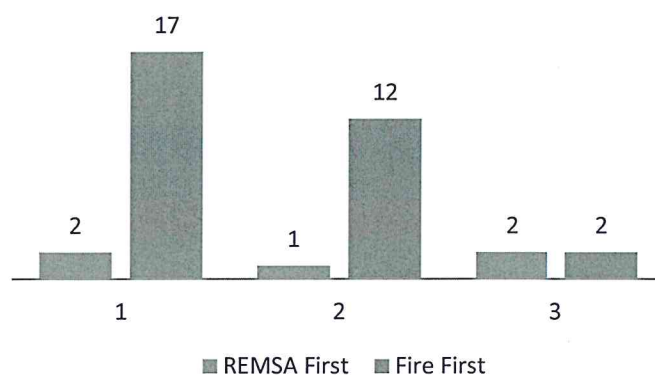


Table 3a: The frequency alarm time for fire occurs before REMSA dispatches an ambulance within the special study area.

Fire Alarm first	Frequency	Percent
No	11	30.56
Yes	25	69.44

Table 3.1: Special study area response data, indicating the first responding unit on scene based on time of day.

Day (6am-6pm)								
First on Scene	Priority REMSA						Total	
	1		2		3		#	%
	#	%	#	%	#	%		
REMSA First	1	7.7%	1	11.1%	2	50.0%	4	15.4%
Fire First	12	92.3%	8	88.9%	2	50.0%	22	84.6%
Total	13	100.0%	9	100.0%	4	100.0%	26	100.0%

Night (6pm-6am)								
First on Scene	Priority REMSA						Total	
	1		2		3		#	%
	#	%	#	%	#	%		
REMSA First	1	16.7%	0	0.0%	0	0.0%	1	10.0%
Fire First	5	83.3%	4	100.0%	0	0.0%	9	90.0%
Total	6	100.0%	4	100.0%	0	0.0%	10	100.0%

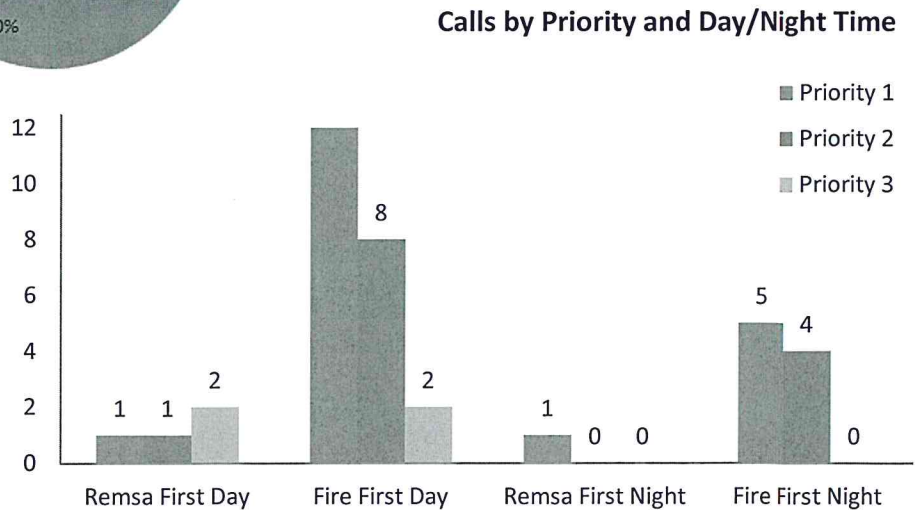
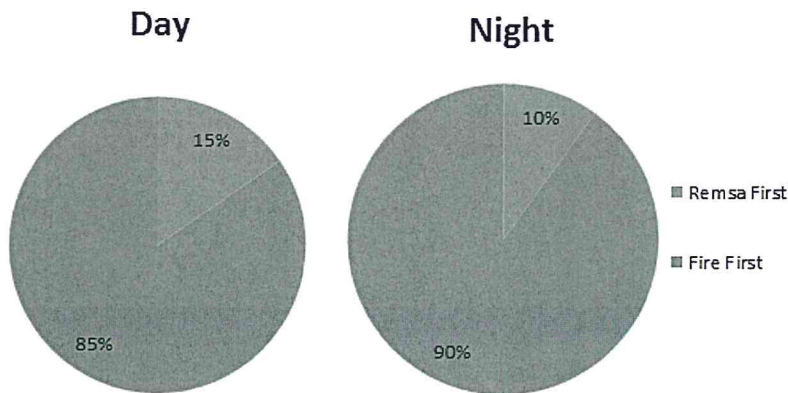


Table 3.2: Clock start – clock stop difference for REMSA

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:10:02	0:17:53	0:02:55	0:04:07	0:17:25	0:09:56
2	0:09:31	0:15:15	0:03:14	0:03:32	0:14:26	0:09:06
3	0:11:56	0:22:03	0:03:39	0:07:53	0:22:03	0:11:02
All	0:10:03	0:22:03	0:02:55	0:04:20	0:15:35	0:09:41

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:10:08	0:17:53	0:02:55	0:04:08	0:15:35	0:09:56
2	0:08:30	0:13:37	0:03:14	0:03:11	0:13:37	0:08:20
3	0:11:56	0:22:03	0:03:39	0:07:53	0:22:03	0:11:02
All	0:09:51	0:22:03	0:02:55	0:04:30	0:15:35	0:09:27

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:09:49	0:17:25	0:04:29	0:04:27	0:17:25	0:09:06
2	0:11:48	0:15:15	0:07:57	0:03:35	0:15:15	0:12:00
3	.	.	.	.	.	.
All	0:10:37	0:17:25	0:04:29	0:04:03	0:16:20	0:10:02

This table depicts the difference between the clock start time and the clock stop time for all REMSA calls within the special study area.

Table 3.3: Alarm time – on-scene differences for SFD

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:42	0:12:07	0:00:00	0:02:30	0:08:10	0:05:20
2	0:05:41	0:11:51	0:03:20	0:02:21	0:07:48	0:04:57
3	0:09:46	0:14:58	0:06:24	0:03:48	0:14:58	0:08:50
All	0:06:09	0:14:58	0:00:00	0:02:50	0:10:09	0:05:32

Day						
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:17	0:12:07	0:00:00	0:02:53	0:07:30	0:04:47
2	0:05:14	0:11:51	0:03:20	0:02:38	0:11:51	0:04:54
3	0:09:46	0:14:58	0:06:24	0:03:48	0:14:58	0:08:50
All	0:05:57	0:14:58	0:00:00	0:03:16	0:11:51	0:05:01

Night						
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:38	0:08:10	0:05:20	0:00:57	0:08:10	0:06:41
2	0:06:41	0:07:48	0:04:44	0:01:21	0:07:48	0:07:07
3	.	.	.	.	.	.
All	0:06:39	0:08:10	0:04:44	0:01:03	0:07:59	0:06:51

This table depicts the difference between alarm time and on-scene time for SFD within the special study area.

Table 3.4a: Time differences between arrival times – REMSA arrived first

Priority Number	REMSA First					
	Mean	Max	Min	StdDev	P90	Median
1	0:03:34	0:05:02	0:02:06	0:02:04	0:05:02	0:03:34
2	0:08:54	0:08:54	0:08:54	.	0:08:54	0:08:54
3	0:05:38	0:05:47	0:05:28	0:00:13	0:05:47	0:05:38
All	0:05:27	0:08:54	0:02:06	0:02:25	0:08:54	0:05:28

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:06	0:02:06	0:02:06	.	0:02:06	0:02:06
2	0:08:54	0:08:54	0:08:54	.	0:08:54	0:08:54
3	0:05:38	0:05:47	0:05:28	0:00:13	0:05:47	0:05:38
All	0:05:34	0:08:54	0:02:06	0:02:47	0:08:54	0:05:38

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:02	0:05:02	0:05:02	.	0:05:02	0:05:02
2	.	.	.	.	.	.
3	.	.	.	.	.	.
All	0:05:02	0:05:02	0:05:02	.	0:05:02	0:05:02

This table depicts the time difference (in minutes) for arrival at call destination, when REMSA arrives before SFD within the special zone.

Table 3.4b: Number of calls and time differences – REMSA arrived first

Priority	Time interval between REMSA and Fire		
	>=1 and <5	>=5 and <10	Total
1	1	1	2
2	0	1	1
3	0	2	2
Total	1	4	5

Day (6am-6pm)			
Priority	Time interval between REMSA and Fire		
	>=1 and <5	>=5 and <10	Total
1	1	0	1
2	0	1	1
3	0	2	2
Total	1	3	4

Night (6pm-6am)		
Priority	Time interval between REMSA and Fire	
	>=5 and <10	Total
1	1	1
2	0	0
3	0	0
Total	1	1

This table utilizes the same information from Table 3.4a but indicates the number of calls that were within the minute time frame. The below table corresponds with REMSA arriving first on-scene within the special study area.

Table 3.5a: Time differences between arrival times – SFD arrived first

Priority Number	Fire First					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:18	0:13:52	0:00:42	0:03:57	0:11:53	0:04:38
2	0:05:01	0:09:49	0:00:17	0:03:09	0:09:48	0:04:45
3	0:10:55	0:14:50	0:06:59	0:05:33	0:14:50	0:10:55
All	0:05:33	0:14:50	0:00:17	0:03:53	0:10:36	0:04:57

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:43	0:13:52	0:00:44	0:04:08	0:11:53	0:05:11
2	0:04:54	0:09:49	0:00:17	0:02:45	0:09:49	0:04:45
3	0:10:55	0:14:50	0:06:59	0:05:33	0:14:50	0:10:55
All	0:05:54	0:14:50	0:00:17	0:03:58	0:11:53	0:05:24

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:04:18	0:10:36	0:00:42	0:03:44	0:10:36	0:03:37
2	0:05:13	0:09:48	0:01:26	0:04:20	0:09:48	0:04:50
3	.	.	.	.	.	.
All	0:04:43	0:10:36	0:00:42	0:03:46	0:10:36	0:03:37

This table depicts the time difference (in minutes) for arrival at call destination, when SFD arrives before REMSA within the special study area.

Table 3.5b: Number of calls and time differences – SFD arrived first

Priority	Time interval between Fire and REMSA					Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	> 30 min'	
1	1	8	4	3	1	17
2	1	5	6	0	0	12
3	0	0	1	1	0	2
Total	2	13	11	4	1	31

Day (6am-6pm)						
Priority	Time interval between Fire and REMSA					Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15		
1	1	5	4	2		12
2	1	3	4	0		8
3	0	0	1	1		2
Total	2	8	9	3		22

Night (6pm-6am)						
Priority	Time interval between Fire and REMSA					Total
	>=1 and <5	>=5 and <10	>=10 and <15	> 30 min'		
1	3	0	1	1		5
2	2	2	0	0		4
3	0	0	0	0		0
Total	5	2	1	1		9

This table utilizes the same information from Table 3.5a but indicates the number of calls that were within the minute time frame. The below table corresponds with SFD arriving first on-scene within the special study area. The shading on the top chart indicates the calls that were within the denoted response time. The information below indicates that SFD is waiting 13% of the time past the denoted response times.

City of Reno

SUMMARY:

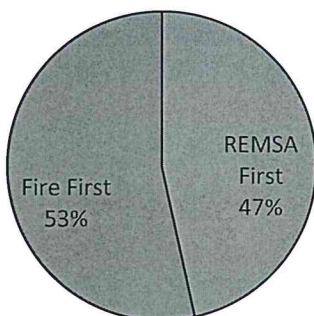
In Q1, City of Reno matched 5,108 medical calls for service. The data indicates a fire response arriving prior to REMSA an overall 53.4% of the time; fire arriving first 59% during the day and REMSA responding first 54% of the time during the evening. The fire alarm first chart indicates that 93% of the time, the fire alarm has sounded prior the REMSA dispatching an ambulance. The maximum amount of time it took for REMSA to respond to a call within the City of Reno was 33 minutes and 04 seconds, which was a Priority 2 call during the day. The maximum amount of time it took for RFD to respond to a call was 1 hour and 39 minutes, which was a Priority 2 call during the night. There was another call indicating a 1 hour and 26 minute response for RFD on a Priority 1 call. These calls require further investigation to determine if they are outliers or a data issue to be corrected. The minimum amount of time for REMSA to respond to a call was negative 6 minute and 24 seconds, which was a Priority 2 call during the day. There was another call indicating a negative response time of over 2 minutes. These calls require further investigation to determine if they are anomalies or if there is a data issue that needs to be corrected. The minimum amount of time for RFD to respond to a call was 0.04 seconds, which was a Priority 1 call during the day. Statistically, fire is waiting for REMSA to respond 1.5% of the time, past the denoted response time (see table 4.5b on page 39).

STATISTICAL INFORMATION:

Table 4: Jurisdictional information that indicates the first responding unit on scene

First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	1315	48.6%	866	48.6%	197	31.8%	2378	46.6%
Fire First	1392	51.4%	916	51.4%	422	68.2%	2730	53.4%
Total	2707	100.0%	1782	100.0%	619	100.0%	5108	100.0%

REMSA and Reno Fire Total Percentage



REMSA and Reno Fire Total Number of Calls by Priority

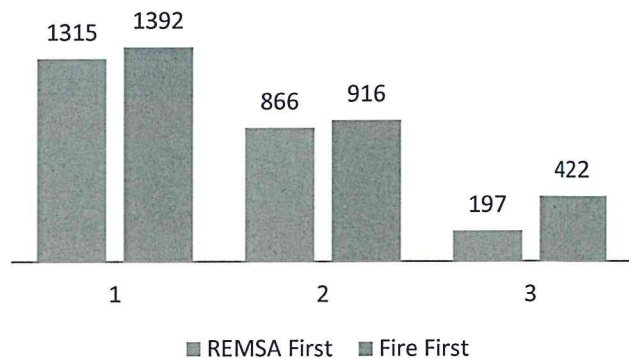


Table 4a: The frequency alarm time for fire occurs before REMSA dispatches an ambulance.

Fire Alarm first	Frequency	Percent
No	378	7.4
Yes	4730	92.6

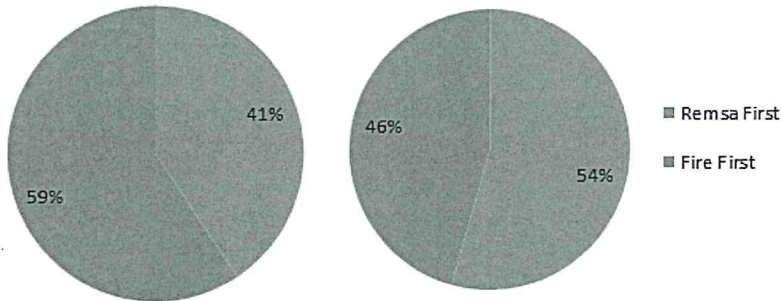
Table 4.1: Jurisdiction response data, indicating the first responding unit on scene based on time of day.

Day (6am-6pm)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	667	43.0%	416	42.1%	96	26.5%	1179	40.6%
Fire First	884	57.0%	573	57.9%	266	73.5%	1723	59.4%
Total	1551	100.0%	989	100.0%	362	100.0%	2902	100.0%

Night (6pm-6am)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	648	56.1%	450	56.7%	101	39.3%	1199	54.4%
Fire First	508	43.9%	343	43.3%	156	60.7%	1007	45.6%
Total	1156	100.0%	793	100.0%	257	100.0%	2206	100.0%

Day

Night



Calls by Priority and Day/Night Time

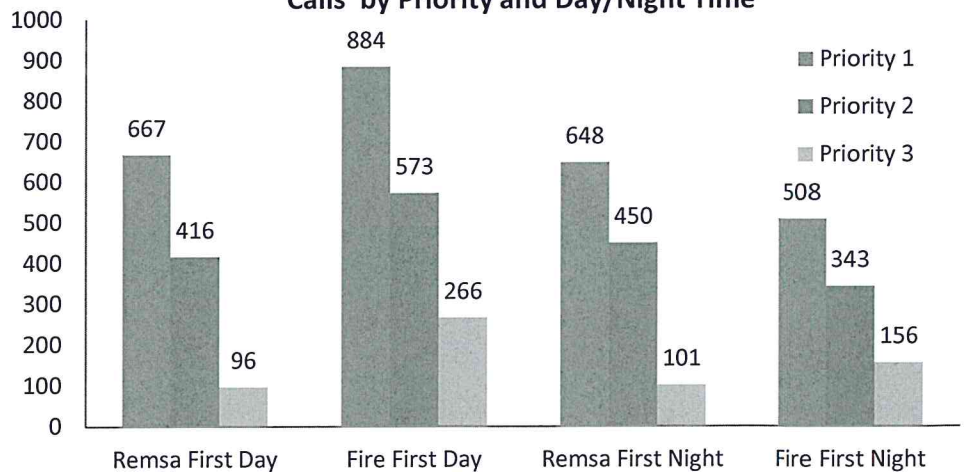


Table 4.2: Clock start – clock stop difference for REMSA

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:29	0:17:14	-0:02:22	0:02:27	0:08:41	0:05:13
2	0:05:56	0:33:04	-0:06:24	0:03:18	0:09:27	0:05:33
3	0:08:15	0:30:18	0:00:12	0:04:45	0:14:38	0:07:08
All	0:05:58	0:33:04	-0:06:24	0:03:14	0:09:34	0:05:32

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:40	0:17:14	-0:00:05	0:02:30	0:08:51	0:05:24
2	0:06:15	0:33:04	-0:06:24	0:03:26	0:09:41	0:05:45
3	0:08:33	0:30:18	0:00:17	0:04:58	0:15:07	0:07:16
All	0:06:13	0:33:04	-0:06:24	0:03:21	0:09:50	0:05:42

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:05:13	0:16:26	-0:02:22	0:02:22	0:08:20	0:04:59
2	0:05:34	0:27:32	-0:00:03	0:03:04	0:08:58	0:05:17
3	0:07:50	0:29:14	0:00:12	0:04:25	0:12:50	0:07:02
All	0:05:39	0:29:14	-0:02:22	0:03:02	0:09:05	0:05:18

This table depicts the difference between the clock start time and the clock stop time for all REMSA calls within the City of Reno.

Table 4.3: Alarm time – on-scene difference for Reno Fire Department

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:43	1:26:22	0:00:04	0:03:36	0:09:28	0:06:15
2	0:07:04	1:39:58	0:00:30	0:03:45	0:10:08	0:06:27
3	0:06:54	0:18:25	0:01:30	0:02:33	0:10:00	0:06:29
All	0:06:51	1:39:58	0:00:04	0:03:33	0:09:50	0:06:21

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:31	0:38:29	0:00:04	0:02:41	0:09:04	0:06:08
2	0:06:50	0:29:47	0:01:25	0:02:37	0:09:55	0:06:24
3	0:06:48	0:18:25	0:01:30	0:02:42	0:10:07	0:06:22
All	0:06:40	0:38:29	0:00:04	0:02:40	0:09:31	0:06:16

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:06:59	1:26:22	0:00:21	0:04:32	0:09:59	0:06:24
2	0:07:20	1:39:58	0:00:30	0:04:47	0:10:27	0:06:29
3	0:07:03	0:15:39	0:02:36	0:02:18	0:09:57	0:06:37
All	0:07:07	1:39:58	0:00:21	0:04:26	0:10:05	0:06:28

This table depicts the difference between alarm time and on-scene time for the Reno Fire Department (RFD).

Table 4.4a: Time differences between arrival times – REMSA arrived first

Priority Number	REMSA First					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:03	0:25:55	0:00:00	0:02:33	0:04:14	0:01:24
2	0:02:36	0:24:24	0:00:00	0:02:55	0:05:42	0:01:47
3	0:02:14	0:17:10	0:00:00	0:02:29	0:04:41	0:01:35
All	0:02:16	0:25:55	0:00:00	0:02:42	0:04:48	0:01:32

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:00	0:25:55	0:00:00	0:02:30	0:04:10	0:01:19
2	0:02:33	0:24:24	0:00:00	0:02:56	0:05:46	0:01:39
3	0:02:42	0:17:10	0:00:00	0:03:08	0:05:34	0:01:39
All	0:02:15	0:25:55	0:00:00	0:02:44	0:04:50	0:01:28

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:07	0:24:44	0:00:00	0:02:36	0:04:15	0:01:29
2	0:02:39	0:22:44	0:00:00	0:02:54	0:05:41	0:01:51
3	0:01:47	0:07:11	0:00:01	0:01:30	0:03:34	0:01:32
All	0:02:17	0:24:44	0:00:00	0:02:39	0:04:45	0:01:37

This table depicts the time difference (in minutes) for arrival at call destination, when REMSA arrives before RFD.

Table 4.4b: Number of calls and time differences – REMSA arrived first

Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	501	727	62	16	3	5	1	1315
2	270	487	81	18	8	2	0	866
3	67	113	13	2	2	0	0	197
Total	838	1327	156	36	13	7	1	2378

Day (6am-6pm)								
Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	268	358	28	8	3	1	1	667
2	135	226	41	9	4	1	0	416
3	30	53	9	2	2	0	0	96
Total	433	637	78	19	9	2	1	1179

Night (6pm-6am)							
Priority	Time interval between REMSA and Fire						Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	
1	233	369	34	8	0	4	648
2	135	261	40	9	4	1	450
3	37	60	4	0	0	0	101
Total	405	690	78	17	4	5	1199

This table utilizes the same information from Table 4.4a but indicates the number of calls that were within the minute time frame. The below table corresponds with REMSA arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time.

Table 4.5a: Time differences between arrival times – RFD arrived first

Priority Number	Fire First					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:05	0:20:21	0:00:01	0:02:03	0:04:28	0:01:33
2	0:03:00	0:27:35	0:00:01	0:03:36	0:06:48	0:01:56
3	0:04:43	0:25:17	0:00:01	0:04:33	0:09:46	0:03:14
All	0:02:48	0:27:35	0:00:01	0:03:15	0:06:17	0:01:54

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:11	0:20:21	0:00:01	0:02:01	0:04:33	0:01:43
2	0:03:08	0:27:35	0:00:01	0:03:41	0:06:42	0:02:02
3	0:04:54	0:25:17	0:00:01	0:04:39	0:10:01	0:03:28
All	0:02:55	0:27:35	0:00:01	0:03:17	0:06:23	0:02:01

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:01:55	0:19:00	0:00:01	0:02:07	0:04:17	0:01:21
2	0:02:47	0:24:49	0:00:01	0:03:27	0:06:49	0:01:42
3	0:04:24	0:24:18	0:00:05	0:04:22	0:09:22	0:03:07
All	0:02:36	0:24:49	0:00:01	0:03:10	0:05:47	0:01:38

This table depicts the time difference (in minutes) for arrival at call destination, when RFD arrives before REMSA

Table 4.5b: Number of calls and time differences – RFD arrived first

Priority	Time interval between Fire and REMSA								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	492	799	87	10	2	1	0	1	1392
2	262	505	105	26	4	5	5	4	916
3	66	218	98	20	11	8	1	0	422
Total	820	1522	290	56	17	14	6	5	2730

Day (6am-6pm)								
Priority	Time interval between Fire and REMSA							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	
1	289	526	60	8	0	1	0	884
2	146	324	76	18	2	2	5	573
3	39	136	64	14	7	5	1	266
Total	474	986	200	40	9	8	6	1723

Night (6pm-6am)								
Priority	Time interval between Fire and REMSA							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	203	273	27	2	2	0	1	508
2	116	181	29	8	2	3	4	343
3	27	82	34	6	4	3	0	156
Total	346	536	90	16	8	6	5	1007

This table utilizes the same information from Table 4.5a but indicates the number of calls that were within the minute time frame. The below table corresponds with RFD arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time. The information shows that RFD waits 1.5% of the time past the denoted response times.

Truckee Meadows Fire Protection District

SUMMARY:

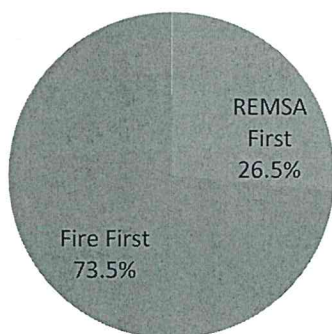
In Q1, Truckee Meadows Fire Protection District (TMFPD) matched 1,350 medical calls for service. The data indicates a fire response arriving prior to REMSA an overall 73.5% of the time; with the percentages altering significantly between daytime and evening hours. Fire responds first 80% of the time during the day and 69% of the time during the night. The fire alarm first chart indicates that 87% of the time, the fire alarm has sounded prior the REMSA dispatching an ambulance. The maximum amount of time it took for REMSA to respond to a call within the TMFPD was 48 minutes and 56 seconds, which was a Priority 1 call during the day. The maximum amount of time it took for TMFPD to respond to a call was 2 hours and 28 minutes, which was a Priority 3 call during the night. The minimum amount of time for REMSA to respond to a call was negative 3 minute and 48 seconds, which was a Priority 1 call during the night. As noted with the City of Reno call information, negative response times of significant duration will require further investigation by the EMS Oversight Program to determine if they are anomalies or if there is a data collection issue that needs to be corrected. The minimum amount of time for TMFPD to respond to a call was 0.00 minutes/seconds, which was both a Priority 1 and 2 call during the day. Statistically, fire is waiting for REMSA to respond 1.4% of the time, past the denoted response time (see table 5.5b on page 47).

STATISTICAL INFORMATION:

Table 5: Jurisdictional information that indicates the first responding unit on scene

First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	186	29.7%	117	25.2%	55	21.2%	358	26.5%
Fire First	441	70.3%	347	74.8%	204	78.8%	992	73.5%
Total	627	100.0%	464	100.0%	259	100.0%	1350	100.0%

REMSA and TM Fire Total Percentage



REMSA and TM Fire Total Number of Calls by Priority

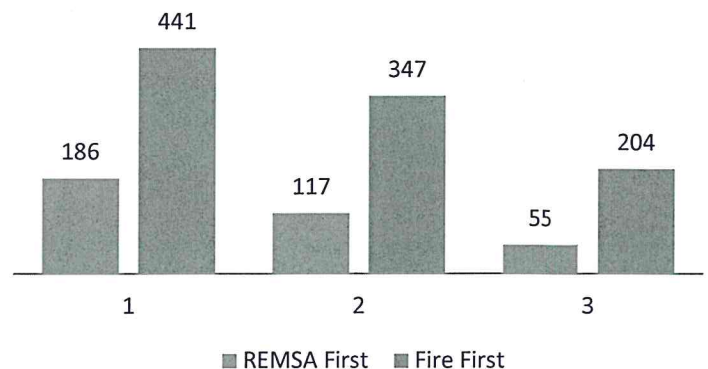


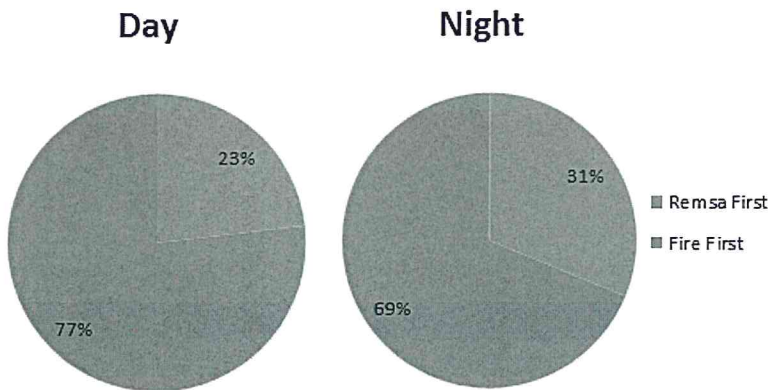
Table 5a: The frequency alarm time for fire occurs before REMSA dispatches an ambulance.

Fire Alarm First	Frequency	Percent
No	170	12.59
Yes	1180	87.41

Table 5.1: Jurisdiction response data, indicating the first responding unit on scene based on time of day.

Day (6am-6pm)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	93	24.7%	58	23.0%	29	19.3%	180	23.1%
Fire First	283	75.3%	194	77.0%	121	80.7%	598	76.9%
Total	376	100.0%	252	100.0%	150	100.0%	778	100.0%

Night (6pm-6am)								
First on Scene	Priority REMSA							
	1		2		3		Total	
	#	%	#	%	#	%	#	%
REMSA First	93	37.1%	59	27.8%	26	23.9%	178	31.1%
Fire First	158	62.9%	153	72.2%	83	76.1%	394	68.9%
Total	251	100.0%	212	100.0%	109	100.0%	572	100.0%



Calls by Priority and Day/Night Time

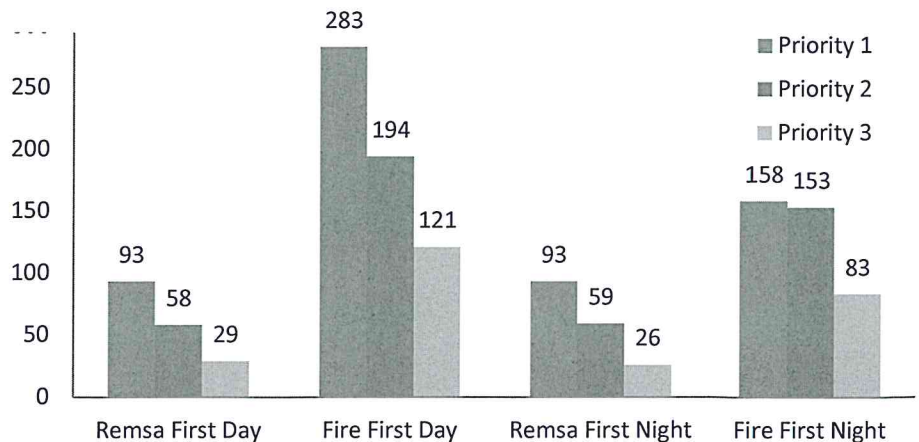


Table 5.2: Clock start – clock stop difference for REMSA

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:09:33	0:48:56	-0:03:48	0:05:21	0:15:48	0:08:45
2	0:10:17	0:43:28	0:00:50	0:05:09	0:16:16	0:09:35
3	0:11:52	0:36:30	0:00:40	0:05:44	0:19:44	0:10:47
All	0:10:15	0:48:56	-0:03:48	0:05:25	0:16:56	0:09:19

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:09:52	0:48:56	0:01:46	0:05:24	0:15:37	0:08:59
2	0:10:30	0:33:44	0:01:44	0:05:08	0:16:46	0:09:50
3	0:12:34	0:34:03	0:00:40	0:05:52	0:20:26	0:11:45
All	0:10:36	0:48:56	0:00:40	0:05:29	0:17:02	0:09:37

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:09:05	0:38:56	-0:03:48	0:05:14	0:15:48	0:08:15
2	0:10:01	0:43:28	0:00:50	0:05:11	0:16:05	0:09:14
3	0:10:54	0:36:30	0:02:00	0:05:25	0:18:02	0:09:56
All	0:09:46	0:43:28	-0:03:48	0:05:17	0:16:36	0:08:53

This table depicts the difference between the clock start time and the clock stop time for all REMSA calls within the Truckee Meadows Fire Protection District (TMFPD).

Table 5.3: Alarm time – on-scene difference for TMFPD

Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:07:52	0:48:13	0:00:00	0:04:22	0:11:48	0:06:59
2	0:08:12	0:42:56	0:00:00	0:04:32	0:13:17	0:07:10
3	0:08:04	2:28:54	0:00:49	0:09:18	0:11:53	0:07:07
All	0:08:01	2:28:54	0:00:00	0:05:42	0:12:20	0:07:04

	Day					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:07:28	0:41:51	0:00:00	0:04:16	0:11:38	0:06:40
2	0:07:45	0:28:41	0:00:00	0:04:01	0:12:58	0:06:48
3	0:07:11	0:15:59	0:00:49	0:02:48	0:11:20	0:06:51
All	0:07:30	0:41:51	0:00:00	0:03:57	0:11:59	0:06:43

	Night					
Priority Number	Mean	Max	Min	StdDev	P90	Median
1	0:08:27	0:48:13	0:01:04	0:04:26	0:12:04	0:07:31
2	0:08:44	0:42:56	0:00:02	0:05:02	0:13:33	0:07:32
3	0:09:18	2:28:54	0:01:40	0:13:54	0:13:39	0:07:25
All	0:08:43	2:28:54	0:00:02	0:07:23	0:12:55	0:07:31

This table depicts the difference between alarm time and on-scene time for the TMFPD.

Table 5.4a: Time differences between arrival times – REMSA arrived first

Priority Number	REMSA First					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:51	0:18:41	0:00:01	0:02:59	0:06:37	0:01:59
2	0:05:07	1:03:30	0:00:00	0:08:36	0:09:50	0:02:45
3	0:04:24	0:31:42	0:00:04	0:05:27	0:10:09	0:02:48
All	0:03:49	1:03:30	0:00:00	0:05:51	0:08:23	0:02:14

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:02:26	0:18:41	0:00:01	0:02:55	0:06:23	0:01:38
2	0:04:37	1:03:30	0:00:00	0:09:11	0:10:03	0:02:07
3	0:05:18	0:31:42	0:00:04	0:06:33	0:15:10	0:02:54
All	0:03:36	1:03:30	0:00:00	0:06:16	0:08:11	0:01:59

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:03:16	0:16:25	0:00:04	0:03:00	0:06:37	0:02:23
2	0:05:36	0:41:29	0:00:02	0:08:04	0:09:38	0:03:11
3	0:03:23	0:18:27	0:00:04	0:03:46	0:06:09	0:02:21
All	0:04:03	0:41:29	0:00:02	0:05:24	0:08:49	0:02:34

This table depicts the time difference (in minutes) for arrival at call destination, when REMSA arrives before the TMFPD.

Table 5.4b: Number of calls and time differences – REMSA arrived first

Priority	Time interval between Fire and REMSA							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	61	87	32	4	2	0	0	186
2	35	51	20	5	0	2	4	117
3	9	35	5	2	3	0	1	55
Total	105	173	57	11	5	2	5	358

Day (6am-6pm)								
Time interval between Fire and REMSA								
Priority	time interval							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	38	41	13	0	1	0	0	93
2	20	26	6	3	0	2	1	58
3	4	18	3	1	2	0	1	29
Total	62	85	22	4	3	2	2	180

Night (6am-6pm)							
Time interval between Fire and REMSA							
Priority	time interval						Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	> 30 min'	
1	23	46	19	4	1	0	93
2	15	25	14	2	0	3	59
3	5	17	2	1	1	0	26
Total	43	88	35	7	2	3	178

This table utilizes the same information from Table 5.4a but indicates the number of calls that were within the minute time frame. The below table corresponds with REMSA arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time.

Table 5.5a: Time differences between arrival times – TMFPD arrived first

Priority Number	Fire First					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:15	0:43:20	0:00:01	0:04:38	0:10:58	0:04:18
2	0:05:45	0:34:53	0:00:05	0:04:42	0:11:39	0:04:46
3	0:06:50	0:32:50	0:00:02	0:05:34	0:14:05	0:05:52
All	0:05:45	0:43:20	0:00:01	0:04:53	0:11:45	0:04:37

Priority Number	Day (6am-6pm)					
	Mean	Max	Min	StdDev	P90	Median
1	0:05:34	0:43:20	0:00:02	0:05:03	0:11:04	0:04:37
2	0:05:51	0:27:09	0:00:05	0:04:43	0:12:38	0:04:49
3	0:07:34	0:28:55	0:00:04	0:05:36	0:14:15	0:06:29
All	0:06:04	0:43:20	0:00:02	0:05:07	0:12:21	0:04:57

Priority Number	Night (6pm-6am)					
	Mean	Max	Min	StdDev	P90	Median
1	0:04:42	0:18:43	0:00:01	0:03:45	0:10:55	0:03:39
2	0:05:36	0:34:53	0:00:12	0:04:40	0:10:32	0:04:17
3	0:05:46	0:32:50	0:00:02	0:05:21	0:11:17	0:04:21
All	0:05:17	0:34:53	0:00:01	0:04:30	0:10:58	0:04:08

This table depicts the time difference (in minutes) for arrival at call destination, when TMFPD arrives before REMSA

Table 5.5b: Number of calls and time differences – Truckee Meadows arrived first

Priority	Time interval between REMSA and Fire								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	45	215	126	44	6	2	1	2	441
2	39	149	106	42	4	5	1	1	347
3	18	74	70	26	7	6	2	1	204
Total	102	438	302	112	17	13	4	4	992

Day (6am-6pm)									
Priority	Time interval between REMSA and Fire								Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	>=25 and <30	> 30 min'	
1	30	127	91	26	4	2	1	2	283
2	23	80	58	26	3	3	1	0	194
3	11	32	47	20	5	4	2	0	121
Total	64	239	196	72	12	9	4	2	598

Night (6pm-6am)								
Priority	Time interval between REMSA and Fire							Total
	< 1 min	>=1 and <5	>=5 and <10	>=10 and <15	>=15 and <20	>=20 and <25	> 30 min'	
1	15	88	35	18	2	0	0	158
2	16	69	48	16	1	2	1	153
3	7	42	23	6	2	2	1	83
Total	38	199	106	40	5	4	2	394

This table utilizes the same information from Table 5.5a but indicates the number of calls that were within the minute time frame. The below table corresponds with TMFPD arriving first on-scene. The shading on the top chart indicates calls that were within the denoted response time. The data indicates that TMFPD is waiting 1.4% of the time past the denoted response times.

Appendix A: Response Zone Information

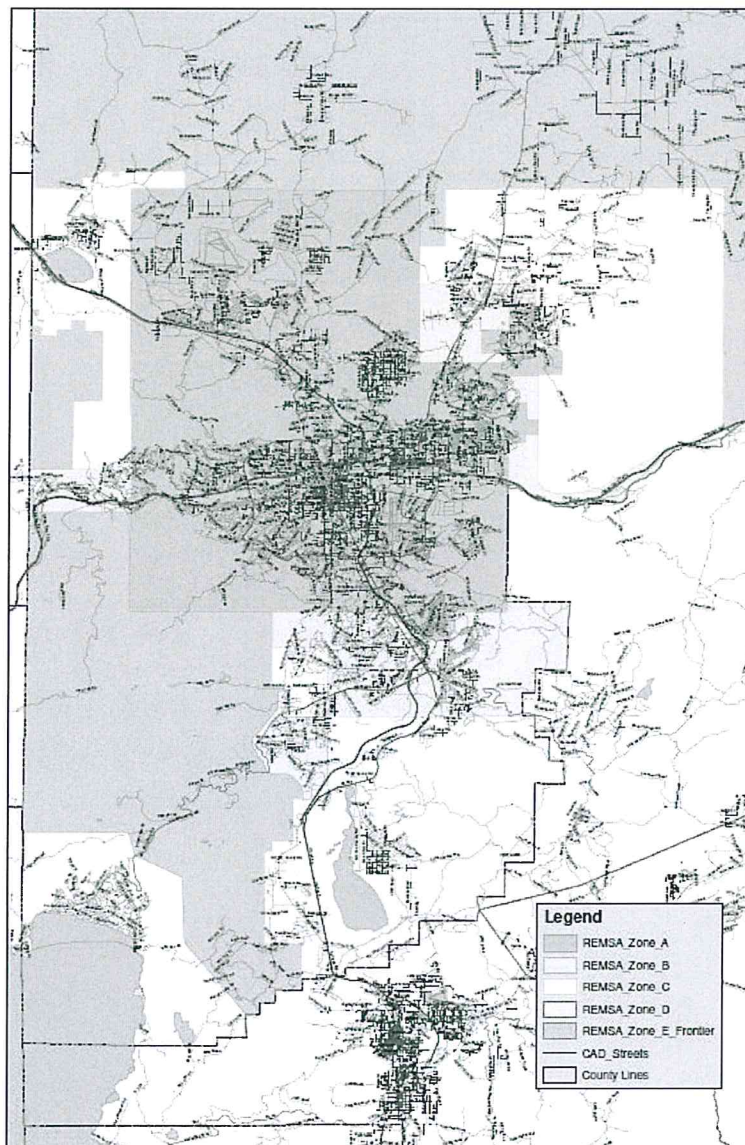
	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E
Priority 1	8:59	15:59	20:59	30:59	Wilderness/frontier
Priority 2	12:59	19:59	24:59	34:59	Wilderness/frontier
Priority 3	19:59	24:59	29:59	39:59	Wilderness/frontier

Jurisdiction Response Area:

Reno Fire Department – Zone A

Sparks Fire Department – Zones A, B, C and E

Truckee Meadows Fire Protect District – Zones B, C, D, and E



Appendix B: Statistical Terms and Definitions

Frequency: The number of times an observation occurs.

Mean: Sum of all the observations of a variable, divided by the number of observations.

Minimum: The smallest observation of a given variable.

Maximum: The largest observation of a given variable.

Standard Deviation (StdDev): The measure of how observations vary around the mean.

90th Percentile (P90): The observation at which 90% of all the values are equal or lower.

Median: Middle value in the list of observations.

Appendix C: Call Data Definitions

The definitions below are the agreed upon definitions, although not all data elements are utilized at this time.

Data Element	Definition
Call response volume	The number of EMS calls each agency receives per month including priorities, transports, AMAs and cancelled calls. (WCHD will calculate.)
Receipt of call	The timestamp when a Reno, Sparks or Washoe County call taker answers the initial 9-1-1 request.
Time of priority	The timestamp when a priority designation of 1, 2 or 3 is assigned to the call.
(Fire) Alarm start	The timestamp with the fire alarm has sounded in the station.
Fire en route	The timestamp when fire is en route.
(REMSA) Clock start	The timestamp when the ambulance is dispatched to the call.
REMSA en route	The timestamp when REMSA is en route.
Fire on scene	The timestamp when fire arrives on scene.
REMSA clock stop	The timestamp when REMSA arrives on scene.
Fire and REMSA arrivals	The delta between the arrivals of fire and REMSA units. (WCHD will calculate.)
<i>Patient contact (optional)</i>	<i>The timestamp when patient contact is initiated.</i>
Fire leaves scene	The timestamp when fire leaves the scene.
REMSA leaves scene	The timestamp when REMSA leaves the scene.
Patient arrival	The timestamp when REMSA arrives at the hospital.
Fire engine/unit is back in service	The timestamp when the responding fire unit is resupplied and available to respond to another call.
REMSA unit is back in service	The timestamp when the responding REMSA unit is back in service and available to respond to another call.

*Call is defined as the time a Reno, Sparks or Washoe County call taker answers the initial 9-1-1 request. (After the call taker determines a response is needed WCHD will also complete analyses based on the timestamp when REMSA receives the transfer.) **Arrival is defined as the time the responding unit is at the address with the wheels stopped and/or emergency brake on.