



**Standards of Cover and Utilization Study
Police, Fire/EMT and Public Works Departments.
Project Proposal**

Prepared for:
City of Leon Valley

June 2023

About Fitch & Associates

We've designed, developed, and managed some of the world's most innovative Emergency Services systems.



We approach every decision as a collaboration because we understand the value of successful partnerships and we bring the energy, focus, and credentials that drive decision-making and action.



FITCH has earned credibility for nearly forty years by implementing innovative, customized solutions in the public safety and healthcare arenas, providing consulting services in thousands of communities in 50 states, all Canadian provinces, and 12 other countries.

The Fitch Team for This Project

PROJECT CATEGORIES	TEAM MEMBERS		
Project Lead	Guillermo	Fuentes	MBA-Partner
Project Team	Steven	Knight,	PhD-Partner (Fire/EMS)
	Bill	Sturgeon	MPA (Public Works)
	Bruce	Moeller,	PhD (Fire/EMS Public Works)
	Chief	Melanie Bevan	PhD (Police)

The background image for the left side of the slide shows a body of water at dusk or dawn, with a city skyline visible in the distance under a colorful sky. The text "Project Objective" is overlaid on this image in a white, serif font.

Project Objective

Does the City of Leon Valley have the appropriate number of personnel in Police, Fire/EMS, and Public Works currently and in the future in order to provide superior service.

Project Tasks Police Dept.

- 1 Review Current Workload Demands
- 2 Review of Resources
- 3 Evaluate Impact of Red Light Camera Elimination
- 4 Detailed Analysis of Current Resource Usage
- 5 Shifts and Deployment
- 6 Workload of Supervisory and Administrative Staff
- 7 Best Practices and Peer Comparison
- 8 Predictive Staffing Methodology

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Project Tasks Fire/EMS Dept.

- 1 Assess Community Risks
- 2 Review of Assets, Infrastructure and Apparatus
- 3 Gather data on Community Expectations
- 4 Detailed Analysis of Current Resource Usage
- 5 Shifts and Deployment
- 6 Review 3rd Party Provider Resources and Service Delivery Model
- 7 Best Practices and Peer Comparison
- 8 Strategic Direction

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Project Tasks Public Works Dept.

- 1 Review Current Demands
- 2 Conduct a Community Risk/Critical Task Analysis
- 3 Evaluate Current Resources
- 4 Stormwater Operations and Maintenance
- 5 Shifts and Deployment
- 6 Review 3rd Party Provider Resources and Service Delivery Model
- 7 Best Practices and Peer Comparison
- 8 Strategic Direction

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Approach to Data Collection



Approach

FITCH used a mixed-methods approach—using both quantitative and qualitative data collection and analysis—to triangulate findings across data sources for each assessment deliverable and to provide multiple perspectives on the multi-dimensional challenges explored in the written report.



Quantitative

Quantitative data included publicly available data, CAD Systems, RMS Systems, Databases, and other records



Qualitative

Qualitative data included interviews with EMS system participants, elected officials, and health system stakeholders to understand the current communications, political, EMS, first response, and healthcare environment.



Time Period

At the kickoff meeting *FITCH* will submit an Information Data Request (IDR) that the Departments will ideally complete within 30 days of project initiation. Qualitative data and Community Consultation feedback will be gathered during the first 90 days of the project

The Workload: Police



Reactive (Calls for Service)

Call type, frequency and duration

Temporal Patterns

Queue, Travel and Response Times

Geospatial Analysis

The Workload: Police



Proactive

Premise and Property Checks

Traffic Enforcement

Foot Patrols

Compliance Checks

Community Safety Initiatives

Self-Initiated Activities

The Workload: Police



General Patrol

Visibility

Deterrence

Positioned for Effective Response Times

The Workload: Police



Administrative Time

Report Preparation

Follow up Investigation

On Duty Court Time

Lunches and Breaks

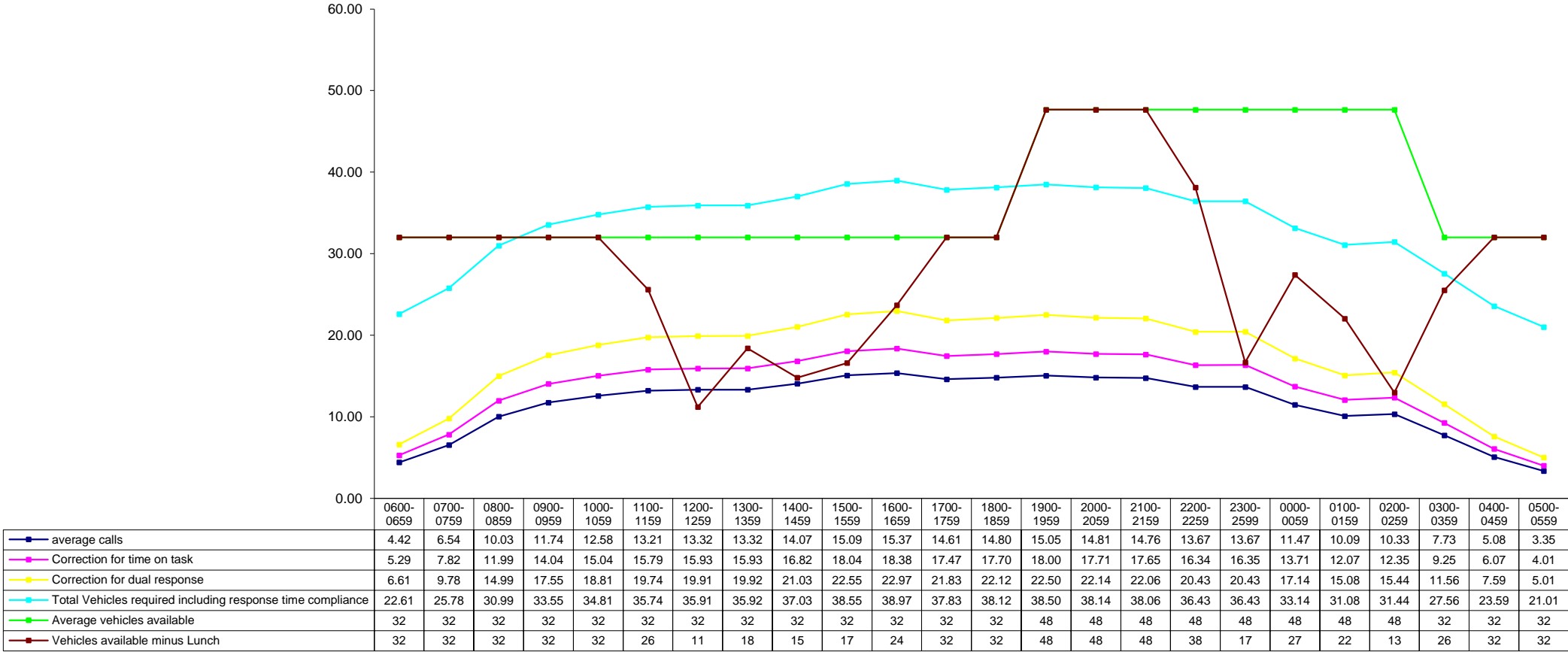
Sick Time

Duty Injuries

Training

Figure 22
Vehicles Required for Coverage

Vehicles Required



Time of day

Leon Valley Fire Department

Standards of Cover



Customized to Community's Specific Needs



Data Collection

Data	Source
Stakeholder Input	Structured Interviews, survey, townhall – TBD by Client
Performance Data	CAD/NFIRS/RMS/ePCR
Service Demands and Historical Risk	CAD/NFIRS/RMS/ePCR
Risk – Occupancy Level	ISO Batch Report or Department RMS
Risk – Station or Planning Zone Area	Service Demands (type and severity), call concurrency, socioeconomic variables (median household income, unemployment, homeownership, etc.), demographic variables (age, population density, population change, household density, housing stock over 50 years old, occupancy level risk, etc.)...department will assist in development of risk matrices
Future Demands	Urban Growth Boundaries, Planning and Economic Development, Comprehensive Land Use Plans, and Historical Trends in Data
Geographic Limitations	GIS
Fiscal Capacity / Budget	City and Department
Operations and Program Data	Direct Observations, Structured Interviews, Review of Existing Documents

Potential Differences in Risk and Demand

- Risk (Readiness)

- Geographic Limitations
- Desired Response Time Performance
- Occupancy and Building Risks
- Socioeconomic Indicators
- Demographic Indicators
- Critical Tasks

- Demand (Actual Calls)

- Number of Calls
- Frequency of Calls
- Concurrency of Calls
- System Reliability
- Geospatial Analysis
- Temporal Analysis
- Workload Indicators

Risk
Performance
Demand
Operations



Expectations
Fiscal Realities

The Workload: Fire EMS



Calls for
Service

Call Frequency

Call Type

Elements of Time

Elements of Performance

Deployment Modelling

Effectiveness and Outcome Measures

The Workload: Fire EMS



Analysis of Capacity

Overall Staffing

Fire Station Staffing

Response Area Analysis

Response Times

Overlapping Response Metrics

Station Specific Performance Metrics

The Workload: Public Works



Calls and
Routine Tasks

Task Type

Priority

Relevant Department and Overlapping Responsibilities

Task Complexity and Intensity

Planned versus Reactive Workload

The Workload: Public Works



Qualitative Analysis

Typically, Public Works Departments do not have the same level of data detail compared to Emergency Services. In order to yield a comprehensive picture of the current workload data about call outs and projects will be supplemented by interviews with members of the department themselves to add greater clarity and understanding about job-related tasks and workload.

The Fitch Advantages



Expertise

Team members are all subject matter experts and leaders in their fields and have been selected for their particular areas of expertise that match the requirements of this project.



Collaboration

FITCH has stayed true to its core values by accomplishing projects using a collaborative approach offering high level involvement for system participants without compromising the independent or objective nature of the project.



Experience

FITCH's experience represents an unparalleled base for the tasks at hand; we have worked with local, state, and federal government agencies, municipal and volunteer fire departments, ambulance services, and police departments.



Tangible Results

FITCH is known for developing innovative solutions to complex issues, and our recommendations and tangible work products have been implemented more frequently than any national public-safety consulting firm.



The Fitch Advantages



Marginal Utility Modelling

One of the key features of the Fitch and Associates methodology is the application of marginal utility modeling to human resource management. This approach contextualizes the relative value of additional resources by considering their impact against their cost. Additional or redeployed resources add extra capacity, but there is a point of diminishing returns where their value is outpaced by their additional cost. The Fitch team will recommend a range of options from minimally adequate to optimal, with our signature marginal utility modeling to assist in gauging the relative cost versus effectiveness of different levels of staffing.



Timeliness

FITCH is known for consultant access, responsiveness, producing its work on or before the scheduled completion date and within budget.



Questions

