

Asset Management Division

Greg Chol, Manager

Function	Sub Function	Position (Title) Responsible for Managing and Implementing Sub Function	Where Documented or Studied	Data Systems Utilized	Level of Service (it was determined during Phase 2 that Level of Service determination will be developed in the future and only on an as needed basis)		Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Individuals with Notable Responsibility	Current Status	Known Gaps	Notes	
					Existing	Target								
Establish Primary Asset Register	Determine attributes required for each stormwater asset	Marisol & Chol	Phase 1, CMP Study	INFOR, GIS, Oracle	TBD	TBD	AW			Greg Chol	<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input checked="" type="checkbox"/> Needs Further Study	Inaccurate Data Present and Potentially Unnecessary Data, Establish name convention criteria, limited in GIS, most information in INFOR with links. Firm process needed for determining attributes for every type of asset. Need to determine which type of data goes in GIS vs INFOR. General preference is most asset most info in INFOR	CMP study found attributes wrong, inconsistent or incomplete for most asset types, audit needed	
	Establish rules and process for data quality reviews for Conditions Assessments	Marisol	Phase 1		TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input checked="" type="checkbox"/> Needs Further Study	Contractor input for asset studies, development review and permitting transferred to INFOR. Rules for surveyed as-built drawings need to be put into place (should extension agreements specify). Determine what as-built information is cost effective to require and what is too costly to provide an effective return. Note that Denver has a system that requires CAD data in standard layers in order to facilitate asset management and GIS systems.		
	Establish Rules and Processes for Data Quality for Developer Built Projects	Chol										<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input checked="" type="checkbox"/> Needs Further Study	See Above Gaps	
	Develop Enhanced Communication Between Programs with Respect to Managing Assets Such as Channel Sedimentation					TBD	TBD	AW	PW			<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Coordinate AW and PW regarding managing the floodplains and doing stream maintenance	Minimize Systems / Spreadsheets for Asset Management
	Collect Existing Condition Assessment Data			CMP study complete, RCP underway		TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Condition assessment data is lacking for certain asset types. First what has been done, has not, frequency, schedule. Existing CMP, RCP, and conc channel assessments have not been used to establish full asset register consistent across all asset types	
	Provide, Review, and Enter Maintenance Data with Respect to Each Asset Type	Chol				TBD	TBD	AW	PW			<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Maintenance data is not consistently tracked for each asset type. After attributes are determined for each asset type it will need to be determined whether existing maintenance data is or is not logged for each asset type (for old data), and what future maintenance data is logged (see below under "Develop Inspection/Assessment Program. This was not deemed to be a high priority gap.	This is an O&M function, included here only because it relates to the asset register.
	Provide, Review, and Enter Historical Data	Chol responsible for quality control and input when needed				TBD	TBD	AW	PW			<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	This is done on a project by project basis. Currently not identified as an overall gap	Potential for Separate Databases that Could be Linked
	Maintain Current GIS Database for All Assets	Marisol				TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	GIS data is lacking for certain asset types	
Determine assets requiring additional survey or data	S Young		Phase 1		TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	A comprehensive look at all assets to determine if field data gathering is needed to complete GIS or Ass. Man.		
Develop Inspection / Assessment Program	Develop Inspection / Assessment Process and Rating System	Chol			TBD	TBD	AW			Greg Chol / Joe McCleary	<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Multiple Condition Ranking Systems; AW and UCFCO Inspect and Maintain Same Infrastructure. No consistent ratings system or inspection process is in place.	Acquire UCFCO Data. CMP study identified a rating system, should be consistent through asset types	
	Create Inspection / Data Logging Forms	Chol	Phase 1		TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Possibly automated system could be established using computerized field forms. Currently no standard exists for consistent gathering or logging of condition data.	Some work relative to this done in CMP study	
	Develop an Overall Plan for Completing Conditions Assessment on All Asset Types	S. Young				TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study		
	Perform Inspections / Assessments	Planning, assisted by O&M and Project Delivery				TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	No Currently Condition Assessment with Regular Work Orders	Possible that routine condition inspection could occur with work orders
	Organize / Report Assessment Results	GIS and Asset Management				TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Multiple Steps Required for Report Input, CMP study resulted in large spreadsheet, how used?	Provide Electronic Field Data Displaying / Reporting System; Possible for Automated Input System
	Develop Process for Identifying How Projects Identified via Conditions Assessments are Budgeted, Assigned, and Completed	S. Young				TBD	TBD	TBD				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Currently the process is Ad Hoc. A method needs to be established for completing this function. There needs to be clearer delineation of how projects are budgeted and when they fall into the CIP/Expert Choice prioritization model.	
Develop Risk Assessment / Management Program	Develop Asset Failure Prediction Process	Chol			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided		
	Establish Intervention Points for Each Asset Type	Chol			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided		
	Develop Asset Remaining Useful Life Methodology	Chol			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided, CMP study has condition rating useful life, need for all asset types	Potentially Could Be Provided Through Hansen	
	Develop Asset Life Cycle Cost Methodology	Planning relative to methodology, coordinated with Chol			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided	Potentially Could Be Provided Through Hansen	
	Develop Critical Asset Level of Service Methodology and Maintain Risk Assessment & Management Data	Planning				TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Critical Asset Types were discussed in the Phase I Study. These asset types should be confirmed and work prioritized to address the critical ones first.	Potentially Could Be Provided Through Hansen
Develop Training for Asset Management Processes and Programs	Develop Asset Management Metadata	S. Young			TBD	TBD	AW			Greg Chol	<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	• The City should determine what information they should be collecting, whether they are or are not collecting and storing it currently and consistently, whether people are being trained consistently to collect correctly, etc.		
	Develop Inspections / Assessment Training	CHOL			TBD	TBD	AW			Greg Chol / Joe McCleary	<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	CMP study included no formal city training aspect, but this should be established and documented		
	Coordinate / Schedule Asset Management Program Trainings	CHOL			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input checked="" type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study			

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Implement Asset Replacement / Devaluation Program	Develop Replacement Cost Valuation Methodology	S. Young			TBD	TBD	AW	PW			<input type="checkbox"/> Functioning as Needed <input type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided	Denver Stormwater Master Plan Provides Example
	Develop Replacement / Rehabilitation Costs	S. Young			TBD	TBD	AW				<input type="checkbox"/> Functioning as Needed <input type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study	Not Currently Provided	Potentially Could Average with Annual Bid Tab Averages
	Maintain Current Replacement / Rehabilitation Costs	S. Young			TBD	TBD	AW	PW			<input type="checkbox"/> Functioning as Needed <input type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study		
											<input type="checkbox"/> Functioning as Needed <input type="checkbox"/> Needs Improvement <input type="checkbox"/> Needs Further Study		