		Position (Title) Responsible for Managing and	Where	Data	determined du Level of Service be developed in	ervice (it was ring Phase 2 that determination will the future and only eeded basis)	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Departmental dination p/Division)	Individuals			
Function	Sub Function	Implementing Sub Function	Documented or Studied Phase 1, CMP	Systems Utilized INFOR, GIS,	Existing	Target	MA Dept.	Cross Coord (Depa	Coord (Grou	with Notable Responsibility Greg Chol	Current Status Functioning as Needed	Known Gaps Inaccurate Data Present and	Notes CMP study found attributes wrong,
	Determine attributes required for each stormwater asset	Marisol & Chol	Study	Oracle						9-1.01	✓ Needs Improvement ✓ Needs Further Study	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	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				☐ Functioning as Needed ☑ Needs Improvement ☑ 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	Establish Rules and Processes for Data Quality for Developer Built Projects	Chol									☐ Functioning as Needed ☑ Needs Improvement ☑ Needs Further Study	See Above Gaps	
Primary Asset Register	Develop Enhanced Communication Between Programs with Respect to Managing Assets Such as Channel Sedimentation				TBD	TBD	AW	PW			Functioning as Needed Needs Improvement Needs Further Study	Coordinate AW and PW regarding managing the floodplains and doing stream maintenance	Minimize Systems / Spreadsheets fo Asset Management
	Collect Existing Condition Assessment Data		CMP study complete, RCP underway		TBD	TBD	AW				Functioning as Needed Needs Improvement 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			Functioning as Needed Needs Improvement 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 he only because it relates to the asset register.
	Provide, Review, and Enter Historical Data	Chol responsible for quality control and input			TBD	TBD	AW	PW			Functioning as Needed Needs Improvement Needs Further Study	This is done on a project by project basis. Currently not identified as an	Potential for Separate Databases the Could be Linked
	Maintain Current GIS Database for All Assets	when needed Marisol			TBD	TBD	AW				Functioning as Needed Needs Improvement	overall gap GIS data is lacking for certain asset types	
	Determine assets	C Vouna	Phase 1		TBD	TBD	AW				■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement	A comprehensive look at all assets to determine if field data gathering is	
Douglas	requiring additional survey or data Develop Inspection / Assessment Process and Rating System	S Young Chol			TBD	TBD	AW			Greg Chol / Joe McCleary	□ Needs Further Study □ Functioning as Needed □ Needs Improvement □ Needs Further Study	needed to complete GIS or Ass. Man. Multiple Condition Ranking Systems; AW and UCFCD Inspect and Maintain Same Infrastructure. No consistent ratings system or inspection process is in place.	
Develop Inspection / Assessment Program	Create Inspection / Data Logging Forms	Chol	Phase 1		TBD	TBD	AW				Functioning as Needed Needs Improvement 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.	
	Develop an Overall Plan for Completing Conditions Assessment on All Asset Types	S. Young			TBD	TBD	AW				Functioning as Needed Needs Improvement Needs Further Study		
	Perform Inspections / Assessments	Planning, assisted by O&M and Project			TBD	TBD	AW				Functioning as Needed Needs Improvement 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	Delivery GIS and Asset Management			TBD	TBD	AW				Functioning as Needed Needs Improvement	Multiple Steps Required for Report Input, CMP study resulted in large	Provide Electronic Field Data Displaying / Reporting System;
	Develop Process for Identifying How Projects Identified via Conditions Assessments are Budgeted, Assigned, and Completed	S. Young			TBD	TBD	TBD				Needs Further Study Functioning as Needed Needs Improvement Needs Further Study	spreadsheet, how used? 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.	Possible for Automated Input Syste
	Develop Asset Failure Prediction Process	Chol			TBD	TBD	AW				Functioning as Needed Needs Improvement Needs Further Study	Not Currently Provided	
Develop Risk	Establish Intervention Points for Each Asset	Chol			TBD	TBD	AW				Functioning as Needed Needs Improvement	Not Currently Provided	
Assessment / Management	Type Develop Asset Remaining Useful Life	Chol			TBD	TBD	AW				Needs Further Study Functioning as Needed Needs Improvement	Not Currently Provided, CMP study has condition rating useful life, need	Potentially Could Be Provided Throi Hansen
Program	Methodology Develop Asset Life Cycle Cost Methodology	Planning relative to methodology,			TBD	TBD	AW				Needs Further Study Functioning as Needed Needs Improvement	for all asset types Not Currently Provided	Potentially Could Be Provided Thro Hansen
	Develop Critical Asset Level of Service Methodology and Maintain Risk Assessment & Management Data	coordinated with Chol Planning			TBD	TBD	AW				Needs Further Study Functioning as Needed Needs Improvement 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.	
Develop Training for	Develop Asset Management Metadata	S. Young			TBD	TBD	AW			Greg Chol	Functioning as Needed Needs Improvement 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.	
Asset Management	Develop Inspections / Assessment Training	CHOL			TBD	TBD	AW			Greg Chol / Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study	CMP study included no formal city training aspect, but this should be established and documented	
Processes and Programs	Coordinate / Schedule Asset Management Program Trainings	CHOL			TBD	TBD	AW				Functioning as Needed Needs Improvement Needs Further Study		
	rrogram mannings												

Asset Management Division Greg Chol, Manager

		Position (Title) Responsible for		-	determined du Level of Service of be developed in t	ervice (it was ring Phase 2 that determination will he future and only seded basis)	_	artmental ion ent)	artmental ion ivision)				
Function	Sub Function	Managing and Implementing Sub Function	Where Documented or Studied	Data Systems Utilized	Existing	Target	Dept. v Respon	Cross Dep Coordinat (Departm	Inner Departr Coordination (Group/Divisi	Individuals with Notable Responsibility		Known Gaps	Notes
	Develop Replacement Cost Valuation Methodology	S. Young			TBD	TBD	AW	PW			Functioning as Needed Needs Improvement Needs Further Study	Not Currently Provided	Denver Stormwater Master Plan Provides Example
Implement Asset	Develop Replacement / Rehabilitation Costs	S. Young			TBD	TBD	AW				Functioning as Needed Needs Improvement Needs Further Study	Not Currently Provided	Potentially Could Average with Annual Bid Tab Averages
Replacement / Devaluation Program	Maintain Current Replacement / Rehabilitation Costs	S. Young			TBD	TBD	AW	PW			Functioning as Needed Needs Improvement Needs Further Study		
											Functioning as Needed Needs Improvement Needs Further Study		

CAPITAL IMPROVEMENT PROJECTS

Steve Fiori, Project Delivery Services Manager

Function	Sub Function	Position (Title) Responsible for Managing and Implementing Sub Function	Data Systems Utilized	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Individuals with Notable Responsibility	Current Status	Known Gaps	Notes
Function	Identify Projects for Potential UDFCD Funding or Partial	""	N/A	AW	PW, AP	0&M	Steve Fiori, Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study	A quantitative process should be established for determining the funding source shares on capital projects	Notes
Leverage UDFCD Funding	With UDFCD Initiate Projects and Participate as Needed	11 11	N/A	AW	N/A	O&M	Steve Fiori, Joe McCleary	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	Process Needs to be Developed	
	Coordinate with UDFCD 5- year Plan and Longer Terms Plans	Projects Delivery Services Manager	UDFCD Project Spreadsheet	AW	PW, AP	O&M	Young, Joe McCleary, Bill	Functioning as Needed Needs Improvement Needs Further Study	Process Needs to be Developed	
								☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		
								Functioning as Needed Needs Improvement Needs Further Study		
								Functioning as Needed Needs Improvement Needs Further Study		
							6 1 4 8 8 8	Functioning as Needed Needs Improvement Needs Further Study	List Needs to be Developed	
	Develop Project List from Master Plans	Planning Services Manager	N/A	AW	N/A	O&M	Sarah Young, Bill McCormick, Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study	List Needs to be Developed	
Prioritize	Develop Project List from EDC/Development Projects	11 11	N/A	AW	PW, EDC	O&M	Stephens, Bill McCormick	Functioning as Needed Needs Improvement Needs Further Study	List Needs to be Developed List Needs to be Developed, IGA	
Capital Projects List	Develop Project List from IGAs and Other Sources	""	IGA Spreadsheet	AW	PW	O&M	Sarah Young, Cliff Stephens, Bill McCormick, Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study	Spreadsheet may or may not actually exist?	
	Create Project Initiation Forms for New Projects	п п	N/A	AW	PW, EDC	O&M	Sarah Young, Bill McCormick	Functioning as Needed Needs Improvement Needs Further Study		
	Enter New Projects Into Expert Choice and DSMP	ни	DSMP	AW	PW	O&M	Sarah Young, Jon Villines, Bill McCormick, Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study		
	Prioritize Capital Improvement Plan Annually Using Expert Choice and DSMP	ии	Expert Choice	AW	PW	O&M	Sarah Young	Functioning as Needed Needs Improvement Needs Further Study		
	Using DSMP or Expert Choice Prioritization as a Starting Point, Develop Short and Long Term CIP Plans	и и	Expert Choice	AW	N/A	O&M	Sarah Young, Steve Fiori	Functioning as Needed Needs Improvement Needs Further Study		" "
	Coordinate CIP Needs w/Staff Resources	Project Delivery Services Manager		AW	N/A	N/A	Steve Fiori	Functioning as Needed Needs Improvement Needs Further Study		
								Functioning as Needed Needs Improvement Needs Further Study		
	Prepares Scope, Assign PM	Project Delivery Services Manager	EADocs	AW CPD	N/A	N/A	Steve Fiori, Project Manager As-Assigned	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed		
Manage Stormwater Design &	For In-house Design Prepare IDA, Assign Engineer	пп	" "	AW CPD	PW	N/A	11 11	Needs Improvement Needs Further Study		
Construction Projects	For MESA Projects Assign PM, Prepare Scope, and Evaluate Selection	11 11	" "	AW CPD	N/A	N/A		Functioning as Needed Needs Improvement Needs Further Study		
	For RFP Projects Assign PM, Prepare Scope, Interview, Evaluate Selection	11 11	11 11	AW CPD	PW, AP	N/A	" "	Functioning as Needed Needs Improvement Needs Further Study		
	Coordinate with CDOT, RTD, etc. as needed.	11 11	" "	AW CPD	N/A	N/A	" "	Functioning as Needed Needs Improvement Needs Further Study		
	Coordinate with O & M for maintenance needs in plans.	11 11	11 11	AW CPD	N/A	O&M	Steve Fiori, Joe McCleary	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		
	Coordinate with Parks and Open Space if needed.	11 11	11 11	AW CPD	PROS	N/A	Steve Fiori, Curtis Bish	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed		
	Provide public involvement and education	Public Relations Manager	11 11	AW PR	COA PR	N/A	Greg Baker	Needs Improvement Needs Further Study		
	Complete Design Work	Project Delivery Services Manager	11 11	AW CPD	PW	N/A	Steve Fiori, Project Manager As-Assigned	Functioning as Needed Needs Improvement Needs Further Study		
	Provide Design Review, revisions and approval	Engineering Services Manager	AMANDA	AW Eng	PW, AP	N/A	Vacant	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed		
	Secure Permits Prepare interdepartmental	Water Permit Coordinator	N/A	AW CPD	PW	O&M	Asif Samuel Steve Fiori,	Needs Improvement Needs Further Study Functioning as Needed		
	agreements with other departments as needed.	Project Delivery Services Manager	N/A	AW CPD	PW, AP	N/A	Project Manager As-Assigned	Needs Improvement Needs Further Study Functioning as Needed		
	Prepare maintenance plan with maintenance department	11 11	N/A	AW CPD	N/A	O&M	11 11	Needs Improvement Needs Further Study		
	Obtain land rights, and maintenance easements as necessary.	" "	N/A	AW CPD	PW, ARP	O&M	n n	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		
	Bid Work, Supervise Construction incl Surveying, Inspection & CA.	и п	EADocs (?)	AW CPD	PW	N/A	" "	Functioning as Needed Needs Improvement Needs Further Study		
	Complete As-built Process	пп	N/A	AW CPD	N/A	AW Engineering	" "	Functioning as Needed Needs Improvement Needs Further Study	Surveyed as-builts are not provided for CPD projects (same as for private developments). [Confirm]	

CAPITAL IMPROVEMENT PROJECTS

Steve Fiori, Project Delivery Services Manager

Function	Sub Function	Position (Title) Responsible for Managing and Implementing Sub Function	Data Systems Utilized	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Individuals with Notable Responsibility	Current Status	Known Gaps	Notes
	Provide As-Built Information to GIS for Transfer to Asset Management		GIS, Infor	AW CPD	IT, AM	AW Planning		Functioning as Needed Needs Improvement Needs Further Study		After the Extension Agreement permits are issued, this is not really a CPD task.

		Position (Title) Responsible for Managing and Implementing Sub	Source, Where	Data Systems	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	· Departmental dination up/Division)	Leve (Level of Service shal over time. Current established for		Individuals with Notable			
Function	Sub Function	Function	Documented or Studied	Utilized	Dept. Respo	Cross Coor	Inner Coor (Grot	Existing	Target	Responsibility	Current Status Functioning as Needed	Known Gaps Basin connectivity has not been	Notes
	Establish procedures to enter data as projects are completed	Craig Ellis		GIS		GIS, PW, AW		TBD	TBD		Needs Improvement Needs Further Study	included, Possibly create more automated procedures with GIS. S.O.P.s for entering data should be	
Track Stormwater Assets in GIS System	Provide data from previously as-built drawings to GIS for entry			GIS		GIS, PW, AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Unknown what the status of getting all previous project information into GIS. Desire has been expressed to add design storm frequency to GIS, possibly other hydraulic parameters.	Primary Additions are Ownership and As built Data
	Respond to requests for GIS data entry or query			GIS		GIS, PW, AW, other		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	GIS, Oracle, and Infor are not currently integrated to leverage all stormwater data	
	Complete the asset database for all asset types such as drop structures, energy dissipaters, etc.			GIS		GIS, PW, AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	The asset database currently does not include all storm drainage related infrastructure. An example is drop structures.	
	Survey and enter elevations for existing stormwater assets			GIS, other?		GIS, PW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Currently the GIS system does not have elevations for many asset types	Verify and record existing pipe, inlet, manhole, etc. sizes and materials during survey
	Establish minimum data quality req, and QC GIS stormwater data			GIS		GIS, PW,		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Concern has been expressed regarding the reliability of data in the GIS system	
	Leverage UDFCD Data to reduce need for duplication							TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study		
	Establish naming conventions for all assets,							TBD	TBD		Functioning as Needed Needs Improvement	This may have been done already?, Establish criteria for naming	Example of naming criteria: What structure would qualify as Flared End
	channel reaches, etc. Provide condition assessments & asset			INFOR, GIS?		AW		TBD	TBD		Needs Further Study Functioning as Needed Needs Improvement	structure or pipe A number of gaps may exist in the Infor system, including full GIS and	Section (FES) or Headwall (HW)? Ensure all infrastructure is rated on same rating system in order to relate
Track Stormwater	management plans Establish procedures, enter conditions assessment data into INFOR			INFOR, GIS?		AW		TBD	TBD		☐ Needs Further Study ☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	Oracle integration, usage of existing data, gaps in data, use of cost information, historic information, asset information, etc. Phase 1 of the AISWMP indicated that "building the asset database" was a primary	all areas Linking all systems and programs to share data could provide necessary process accuracy and streamlining
Assets Conditions, Photos, Videos, etc.	Establish procedures, enter condition assessment data into GIS, if needed			INFOR, GIS?		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	gap in the program	
	Provide and upload photos and videos			ORACLE, INFOR?		AW		TBD	TBD		Functioning as Needed Needs Improvement		Can provide database link in GIS for photos and videos
	Track Life Cycle Costs			INFOR, EXPERT		AW		TBD	TBD		Needs Further Study Functioning as Needed Needs Improvement		
	QC asset management and			INFOR		AW		TBD	TBD		■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement		
	Track projects from conditions assessments or			INFOR		AW		TBD	TBD		■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement	Many other uses are possible using Infor, and a gap exists in that there	
	replacement programs Determine asset failure										Needs Further Study Functioning as Needed Needs Improvement	needs to be work to identify whether these uses would be advantageous,	Asset failure mode needs to be established per each asset type and
	mode to assist in prioritizing CIP or maintenance projects Respond to requests for			INFOR INFOR, GIS,		AW		TBD	TBD		■ Needs Further Study ■ Functioning as Needed	save cost, eminiate repetition, etc.	applied on universal scale
	condition data Enter H&H data from master			ORACLE?		AW, PW		TBD	TBD		Needs Improvement Needs Further Study □ Functioning as Needed	H & H data does not currently exist	
Track	plans or development projects Enter Conveyance data to			GIS		AW, PW		TBD	TBD		Needs Improvement Needs Further Study Functioning as Needed	in GIS, Which H&H Data is Necessary?	
Stormwater Hydrology,	GIS or other appropriate software			GIS		AW, PW		TBD	TBD		Needs Improvement Needs Further Study Functioning as Needed	has been desire expressed for design storm frequency and design flows.	
Hydraulic, and Conveyance	QC data			GIS		AW		TBD	TBD		Needs Improvement Needs Further Study	NEED to track sediment accumulation and erosion at conveyance systems	
Data	Respond to requests for conveyance data			GIS		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Efficiencies needed in data access to take advantage of existing systems	
	Coordinate data needs with UDFCD							TBD	TBD		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	There is currently no coordination taking place between the data that UDFCD is tracking in GIS and what the City is tracking. The desire was expressed to minimize duplication in the databases.	
	Enter stormwater as-built drawings into database for			ORACLE, GIS?		AW, PW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Gaps exist in data set	
Track	new projects Enter old stormwater asbuilts to complete data set			ORACLE, GIS?				TBD	TBD		Functioning as Needed Needs Improvement	Gaps exist in data set	
Stormwater Documents	Enter and monitor development agreement			ORACLE, GIS?				TBD	TBD		Needs Further Study Functioning as Needed Needs Improvement	Gaps exist in data set	
	terms and requirements Enter/track developer and outside agency maint.			ORACLE, GIS?		AW, PW		TBD	TBD		■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement	Gaps exist in data set	
	Agreements Enter drainage easements			ORACLE, GIS?		PW		TBD	TBD		■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement	Gaps exist in data set	
	and terms Track annexation agreement										■ Needs Further Study ■ Functioning as Needed	Gaps exist in data set	
	terms Track development drainage			ORACLE, GIS?		PW		TBD	TBD		Needs Improvement Needs Further Study Functioning as Needed	Gaps exist in data set	
	reports			ORACLE, GIS?		PW		TBD	TBD		Needs Improvement Needs Further Study □ Functioning as Needed		
	Enter stormwater project										Needs Improvement Needs Further Study	Phase 2 will initially address	Establish CIP priorities with all parties
Trools	parameters into Expert Choice			EXPERT CHOICE		AW		TBD	TBD		Needs Improvement Needs Further Study		to ensure all needs are being met
Track Stormwater CIP Prioritization	Enter projects into EC as master plans are completed			EXPERT CHOICE		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Phase 2 will initially address	Establish expert choice process and training for performing analysis and calibration on system when necessary
Data, Cost, Priority	Update EC Parameters for CIP projects annually			EXPERT CHOICE		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Phase 2 will initially address	Once again, ensure ranking system in universally used to ensure all assets are given adequate importance
Parameters	Perform EC Analysis			EXPERT CHOICE		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Phase 2 will initially address	
	QC EC results			EXPERT CHOICE		AW		TBD	TBD		Functioning as Needed Needs Improvement Needs Further Study	Phase 2 will initially address	
											Functioning as Needed Needs Improvement Needs Further Study		
	Enter inspections reports into database			INFOR		AW		TBD	TBD		Functioning as Needed Needs Improvement	Establish field computerized form and upload process for completing	
Track Work	Enter work orders into database			INFOR		AW		TBD	TBD		☐ Needs Further Study ☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	forms, establish training Possibly automate upload / entry process to prevent errors / inaccuracy occurring. Tablet based input of work done in field, inspections, etc. is desired.	
orders and Inspection Reports	Enter completed work orders and documentation of work completed			INFOR		AW		TBD	TBD		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	Possibly perform condition inspections during work orders, establish criteria / training per asset	

STORMWATER DATA SYSTEM FUNCTION MATRIX

Function	Sub Function	 Source, Where Documented or Studied	Data Systems Utilized	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Leve (Level of Service shall over time. Current established for Existing	ly LOS has not been r all functions)	Needs Improvement	Known Gaps Training for the "map drawer" functionality of INFOR was noted as a need.	Notes
									☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		

Financial Management Division

Joe Ann Giddings, Manager

		Individuals with Notable		
Function	Sub Function	Responsibility	Sub function Status	Known Gaps and Notes
EXPENDITURES				
	Annually Evaluate & Plan Budgets for Program Elements for 1 Year, 5 Year and 20 Year Periods	Dan Mikesell	Functioning as Needed Needs Improvement Needs Further Study	A gap is the lack of budgeting and tracking for all program elements. If budgeting and tracking was done by program element, expenditures for the program elements could be budgeted and prioritized based on the overarching goals and
Evaluate, Plan	Planning	Sarah Young	Functioning as Needed Needs Improvement Needs Further Study	objectives. However, this would involve more accounting time and may involve staff tracking their time. The accounting categories currently track maintenance and capital costs out of
and Budget All Program Elements	Floodplain Administration	Bill McCormick	Functioning as Needed Needs Improvement Needs Further Study	the 8 program elements. Two types of capital accounts are included in capital; capital projects and capital expenditures for such things as equipment. Accounting for capital projects is by each individual project account. Accounting for maintenance is
	Capital Improvement	Steve Fiori	Functioning as Needed Needs Improvement Needs Further Study	shown as one line item on the accounting reports. Staff costs make up a large percentage of costs for programs elements other than capital. Staff costs are currently projected by payroll.
	O&M	Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study	Each staff person's costs are projected by percentages for stormwater, water, and wastewater. This projection is done by managers at the beginning of the year or multiple years.
	Asset Management	Greg Chol	Functioning as Needed Needs Improvement Needs Further Study	Managers have 15% of their time allocated to stormwater. Most other staff working on stormwater are allocated 100% to stormwater, but time is not allocated to program elements.
	Regulatory	Sean Lieske	Functioning as Needed Needs Improvement Needs Further Study	
	Data Needs	Bill Keever	Functioning as Needed Needs Improvement Needs Further Study	
	Financial Management			
Review	Evaluate PW Agreements and Costs, Including Street Sweeping, Street Overlay Program, Snow Removal, and Staff Time for Development Review.		Functioning as Needed Needs Improvement Needs Further Study	The rationale for expenditures to other departments is not documented, which is a gap. Aurora Water/Stormwater has numerous expenditures for expenses that may not be considered consistent with the mission of Aurora Water and/or Stormwater. While there may be solid reasons for these expenditures, a document explaining why Aurora Water is
Stormwater Expenditures to Other Departments	Evaluate Other Expenditures such as: >Fire Hydrant Maintenance, >Pump Station Maintenance for Golf Courses, Sports Parks, and Hutchison Green Belt, >Public Information on Utility Bill Inserts, > Training Classes, > O & M of Irrigated Turf, >Irrigated Water for PROS & Golf, and >AEDC Support,		Functioning as Needed Needs Improvement Needs Further Study	paying for the identified share would clear up any questions to staff, Council and ratepayers. The expenditures identified for this evaluation are listed in a separate table titled "Payments by Aurora Water/Stormwater to Other Departments".
	Manage/Budget Interdepartmental Manpower, Equipment and Other Resources Transfers		Functioning as Needed Needs Improvement Needs Further Study	Included in the gap above.
Internal Budget	Bill Other Departments for Work Performed		Functioning as Needed Needs Improvement Needs Further Study	Included in the gap above.
	Review Invoices and Manage Disbursement of Funds to Proper Accounts		Functioning as Needed Needs Improvement Needs Further Study	Included in the 2 gaps above.
Life Cycle Cost	Evaluate Life Cycle and Implementation Costs for Capital, Maintenance, and Asset Management		Functioning as Needed Needs Improvement Needs Further Study	The major identified gap is the lack of a condition assessment for the City's stormwater system. The financial aspects of Life Cycle Cost will be added to this evaluation, but the overall work of Life Cycle Cost will be included in Asset Management. The Asset Management Function Matrix details the gaps within Asset Management.
REVENUES				
Fee Evaluation	Evaluate Adequacy of User Fees	Janet Klink	Functioning as Needed Needs Improvement Needs Further Study	The most recent Fee Evaluation is included in the rate study completed by StepWise Utility Advisors completed in 2011. The rate study concluded that the rates and resulting revenues were adequate for the stormwater program at that time. It is suggested a rate study be incorporated into Phase 3 of this study.
- Se Evaluation	Evaluate Adequacy of Development Impact Fees		Functioning as Needed Needs Improvement Needs Further Study	The current MWH study is reviewing the adequacy of development fees.
	Investigate Alternatives to Increase Fees, If Necessary	Dan Mikesell	Functioning as Needed Needs Improvement Needs Further Study	This may be completed in the periodic rate studies for stormwater, depending on the findings and scope of services for the rate studies. Refer to the technical memo title Impervious Area Based Rate Structure Options completed as part of this study.

Function	Sub Function	Individuals with Notable Responsibility	Sub function Status	Known Gaps and Notes
	Annually Update User Fee Database from County Assessor's Information and/or Water Billing Information		Functioning as Needed Needs Improvement Needs Further Study	New users are added to the billing database as they come in from engineering.
	Verify Information with County Assessor		Functioning as Needed Needs Improvement Needs Further Study	See Above
Administrate SW User Fees	Annually Add New Customers from Building Permit Records, if necessary.		Yenctioning as Needed Needs Improvement Needs Further Study	See Above
	Update Growing Coverage Area and Schedule Aerial Imagery when necessary		Functioning as Needed Needs Improvement Needs Further Study	See Above
	Create an Integrated and Updated Annual Billing Database from Above Sources		Functioning as Needed Needs Improvement Needs Further Study	See Above
	Furnish Updated Database to Billing Department		Functioning as Needed Needs Improvement Needs Further Study	See Above
	Provide Customer Service for Billing Issues		Functioning as Needed Needs Improvement Needs Further Study	
	Oversee Fund Collection from SW User Fees and Transfer to Appropriate Accounts		Functioning as Needed Needs Improvement Needs Further Study	
	Manage Collection of Late, Partial, and Non Payments		Functioning as Needed Needs Improvement Needs Further Study	
	Assess Impact Fees to new developments per building permits and other information		 Functioning as Needed Needs Improvement Needs Further Study 	Added to billing database as new buildings come in from engineering.
Development	Revise Impact Fees to account for inflation and projects in new master plans		Functioning as Needed Needs Improvement Needs Further Study	Currently underway by MHW study. This should be reviewed during Phase 3 of this study.
Impact Fees	Oversee Impact Fee Account for Collection and Placement in development fund accounts		Functioning as Needed Needs Improvement Needs Further Study	
Funding Options	Review Aurora Stormwater Program Additional Funding Options		Functioning as Needed Needs Improvement Needs Further Study	This is completed in the Tech Memo titled Impervious Area Based Rate Structure Options which is part of this report.
Plan Review Fees	Consider Time Tracking for AW staff time and charging for Plan Reviews and associated expenses		Functioning as Needed Needs Improvement Needs Further Study	This may be a gap if it is considered necessary.

Function	Sub Function	Position (Title) Responsible for Managing and Implementing Sub Function	Data Systems Utilized	Dept. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Individuals with Notable Responsibility	Current Status	Known Gaps	Notes
Tracking CLOMRs & LOMRs	Receive CLOMR and LOMCs requests, log into AMANDA, track comments (UDFCD), and review for completeness	Floodplain Administrator, City Engineer (Kevin Wegener)	AMANDA, ArcGIS	PW	N/A	N/A	Associate City Engineer, Plans Review Section (Bill McCormick)	✓ Functioning as Needed Needs Improvement Needs Further Study		JV: Source and level-of-service columns have been hidden, Known Gaps column should be hidden or deleted as well after Gap Analysis Tech Memo is vetted.
Pond Certifications	Certify Pond Design and Construction with PM	Associate City Engineer, Plans Review Section (Bill McCormick)	AMANDA	PW	AW	Public Improvements Inspections (PII)	Associate City Engineer, Plans Review Section (Bill McCormick)	Needs Improvement Needs Further Study		GVM: This item needs to be coordinated with the Regulatory Function Matrix and Gaps
Floodplain Determination	Check floodplain status at building permit application or per special request	Floodplain Administrator, City Engineer (Kevin Wegener)	FEMA Floodplain Maps, FIS (PW hard copies)	PW	N/A	N/A	Associate City Engineer, Plans Review Section (Bill McCormick)	Functioning as Needed Needs Improvement Needs Further Study	An electronic process for tracking floodplain determinations needs to be set forth and responsibility/accountability established	Include FHADs, FEMA Studies and Other Studies, JV: Bill M. may have comments regarding the remaining gaps that will come in on the Gap Analysis Tech Memo which could change the 'Current Status' field from Needs Improvement to Functioning as Needed or Needs Further Study.
Elevation Certificates	Review Certificates and Track Approvals	Floodplain Administrator, City Engineer (Kevin Wegener)	N/A	PW	N/A	N/A	Associate City Engineer, Plans Review Section (Bill McCormick)	Functioning as Needed Needs Improvement Needs Further Study	Current Gaps include lack of an electronic filing system for elevation certificates (currently hard copy only), and no documented process exists for checking new floodplain delineations to determine where new elevation certificates are needed for properties that have been added to the floodplain	In the past when Dfirms have placed properties into the floodplain there have been approximately 500-1000 elevation certificates prepared by the City on behalf of property owners.
Flood Response Plan	Coordinate Flood Response Plan with Fire Dept and FEMA	City Engineer (Kevin Wegener)	N/A	Emergency Operations Center (EOC)	EOC, AW	N/A	Special Projects Managers (Jim Brown, Steve Clark), Associate City Engineer, Plans Review Section (Bill McCormick)	Functioning as Needed Needs Improvement Needs Further Study		GVM: This item needs to be checked versus the City's emergency response plan for gaps and possibly discussed with Joe McCleary
Information Management	Provide floodplain and drainage related documents	Associate City Engineer, Plans Review Section (Bill McCormick)	Oracle, UDFCD Web Map, COA Website	PW	AW Engineering	PW Engineering	Senior Engineer (Craig Perl)	Functioning as Needed Veeds Improvement Needs Further Study	Documents for individual properties are hard to find on the City's primary website. This should be rectified. The system needs to be updated as currently documents after 1998 may be in the system, but previous documents are not. See also items above for other data related gaps.	
CRS- Community Rating System	Verify FEMA CRS-Community Rating System	Manager of Water Operations and Maintenance (Tom Ries)	N/A	PW	AW Operations	N/A	Manager of Water Operations and Maintenance (Tom Ries), Stormwater Superintendent (Joe McCleary), Associate City Engineer, Plans Review Section (Bill McCormick)	Functioning as Needed Needs Improvement Needs Further Study		Suggested Addition by TAC

	ter Planning													
Sarah Young	, Planning Services Manago	Position (Title) Responsible for Managing and Implementing Sub	Data Systems & Software	Level of	Service	Dept & Div. with Primary Responsibility (dept/div)	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/Division)	Individuals with Notable					
Function	Sub Function Oversee All Planning	Function Planning Services	Utilized N/A	Existing N/A	Target N/A	AW Planning	PW, Parks,	AW Engineering,	Responsibility Sarah Young	Current Status Functioning as Needed Needs Improvement	Known Gaps	Notes (COA) We should consider just making sure that the gaps are reflected in the Gap Analysis Tech		
Manage Master Planning	Studies Prioritize Planning	Manager					Planning	Project Delivery	Kelly Neumann,	Needs Further Study	Studies are not ranked on economic/	Memo and focus these matrices on roles & responsibilities.		
Program Element	Studies	н в	N/A	Annual	Annual	AW	None	**	Sarah Young	Needs Improvement Needs Further Study	social/ environmental factors.			
											Consider risk based planning when prioritizing studies			
											Consider setting level of service relative to risk and cost			
											Add new criteria developed for prioritizing planning studies. Add parameters needed for the CIP			
											prioritization study.			
	Manage ISWMP Preparation and Updates	Planning Services Manager	N/A		Bi-Annual (?)	AW Planning	PW Engineering	AW Engineering, Project Delivery	Sarah Young	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed	Currently no ISWMP in place, Phase 2 underway, Phase 3 to be scheduled, and updates subsequently	(COA) We need to decide on a final name for the infrastructure plan (ISWMP/SWIMP?) and define acronyms (glossary table?) on Matrices where they appear.		
	Define Conditions That Warrant New Studies Or Revision Of Existing		SW Ops Maintenance Logs		Ongoing Evaluation		••		Sarah Young, Kevin Wegener, Bill McCormick	Needs Improvement Needs Further Study	Currently no defined conditions/criteria for revision of master plans(?)	(COA) These are very similar,		
	Define Scope, Oversee Selection Of Consultant		N/A		As-Needed		PW Engineering, Purchasing Services	AW Engineering, Project Delivery, Business Services	Sarah Young	Punctioning as Needed Needs Improvement March Furthers Steelded	Need standardized and consistent consultant rating process and spreadsheet.	may be better off combined? Also move to UDFCD & Specialty Design report sections, combine with relevant items there?		
	Oversee RFP Process, Review Studies, Manage Referrals		Historical consultant rating spreadsheets		As-Needed		PW Engineering, Purchasing Services		Sarah Young, RB Simmons	Needs Improvement Needs Further Study	и и			
	Manage or Oversee Schedules, Budgets, and Reviews	н н	N/A		As-Needed	••	Purchasing Services	**	Sarah Young, Project Manager (As-Assigned)	Functioning as Needed Needs Improvement Needs Further Study		**		
	-									Functioning as Needed				
	Requests And Reviews 5- Yr Proposed Planning	Planning Services	N/A	Annual	Annual	AW Planning	PW	AW Engineering, Project Delivery,	Sarah Young, Steve Fiori, Joe	Needs Further Study Functioning as Needed Needs Improvement	No standard/defensible process and participants for selecting 5-year basin			
Manage UDFCD & City Driven	Studies UDFCD	Manager					Engineering	O&M	McCleary, Bill McCormick	Needs Further Study Functioning as Needed	planning proposals. City may need to complete more studies and updates than the UDFCD			
Master Plans (MDP, OSP, FHADs, etc.)	Manage Budget And Schedule for Individual Studies	UDFCD Senior Project Manager, Master Planning	N/A	Ongoing	Ongoing	UDFCD	AW Planning & Engineering, PW Engineering	N/A	Shea Thomas	Needs Improvement Needs Further Study	budget allows. These studies would be funded and managed by the City. UDFCD may be able to manage some of these studies if they have available project managers.			
	Participate In Scoping And Consultant Selection Provide Public		N/A	As-Needed	As-Needed	**	PW Engineering	AW Engineering, Project Delivery AW Planning,	**	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed				
	Involvement And Education Coordinate With	Public Relations Manager City Floodplain	N/A	None (?) As-Needed	As-Needed As-Needed	AW Public Relations?	N/A AW Planning &	Water Conservation?	Greg Baker Kevin Wegener,	Needs Improvement Needs Further Study Functioning as Needed Needs Improvement	We don't currently do this with respect to master planning, to my knowledge.			
	Floodplain Administration Coordinate With MS4 Permit To Ensure Reqmts. Are In Plans	Administrator Regulatory Compliance Manager?	N/A	As-Needed	As-Needed	AW Regulatory Compliance	Engineering N/A	AW Planning, Engineering, Project Delivery, Regulatory	Bill McCormick Sean Lieske	Needs Further Study Functioning as Needed Needs Improvement	No established pipeline/process for MS4 review of UDFCD master plans.			
	Coordinates With 404 Permits For Location And Design Issues.	Project Delivery Services Manager and Project Manager (As-Assigned)	National Wetlands and Surface	As-Needed	As-Needed	AW Project Delivery	N/A	Compliance AW Planning, Engineering, Regulatory	Steve Fiori, Joe McCleary	Needs Further Study Functioning as Needed Needs Improvement	No established pipeline/process for 404 review of UDFCD master plans.	Does UDFCD have a process or scope item for considering 404 issues during planning?		
These aren't the people responsible for 'coordinating' per-se, but rather the key contacts.	Coordinate With O & M For Maintenance Related Design Issues.	Ctermuster	Waters Maps N/A	As-Needed	As-Needed	AW SW O&M	N/A	AW Planning, Engineering, Project Delivery	Joe McCleary	Needs Further Study Functioning as Needed Needs Improvement	No established pipeline/process for O&M review of UDFCD master plans.	O&M is frequently called upon for information and review of basin master plans, but could be more integrally involved in		
	Coordinate With Land Acquisition For Siting Issues.	Real Property Services Manager?	County Assessor's Database	As-Needed	As-Needed	PW Real Property	AW Planning & Engineering	N/A	Joani Cravens	Needs Further Study Functioning as Needed Needs Improvement	This is something that doesn't seem to be very well coordinated and can result in missed opportunities, higher costs,	review.		
	Coordinates With Streets Department And CDOT	City Engineer	N/A	As-Needed	As-Needed	PW Engineering	CDOT, AW Planning & Engineering	N/A	Kevin Wegener	Needs Further Study Functioning as Needed Needs Improvement	etc. No designated CDOT contact for planning-related issues. ?	These issues are probably all being relayed through the PW rep for each UDFCD planning study (i.e. Bill McCormick).		
	Coordinates With Parks And Open Space	PROS Principal Planner	N/A	As-Needed	As-Needed	PROS Planning	AW Planning & Engineering, PW Engineering	N/A	Curtis Bish	Needs Further Study Functioning as Needed Needs Improvement	Coordination with Parks needs to be implemented earlier in the process of plans with which current or future Parks property is involved.			
	Coordinates With All Utilities	Misc Utility Reps	Public Utility Maps	As-Needed	As-Needed	Various	AW Planning & Engineering	N/A	Various	Needs Further Study Functioning as Needed Needs Improvement Needs Further Study	property is involved.	Coordination with outside utilities should be the responsibility of the master plan consultant?		
	Regular Project Meetings To Review Work, Schedule, And Budget.	Planning Services Manager	N/A	As-Needed	As-Needed	AW Planning & Engineering	PW Engineering	N/A	Sarah Young	Functioning as Needed Needs Improvement Needs Further Study		(COA) Repeat?		
	Complete Draft Study For Review	UDFCD Senior Project Manager, Master Planning	Dropbox	As-Needed	As-Needed	UDFCD	AW Planning & Engineering, PW Engineering	N/A	Shea Thomas, AW Project Manager (As- Assigned)	Needs Further Study Functioning as Needed Needs Improvement Needs Further Study				
	Revise Draft Report And Publish Final Report	н в	UDFCD Electronic Data Management	As-Needed	As-Needed		N/A	N/A	Shea Thomas	Functioning as Needed Needs Improvement				
	Provides Asset Management Information To Study Team	Planning Services Manager	AW GIS- SDE, Infor	As-Needed	As-Needed	AW Planning &- Engineering	N/A	N/A	Sarah Young	Needs Further Study Functioning as Needed Needs Improvement Needs Further Study				
	Provides Master Development Drainage Plans And Other Documents Related To Study Area To Study Team.		AMANDA, AW Engineering Paper Files	As-Needed	As-Needed		PW Engineering	N/A	Sarah Young	Functioning as Needed Needs Improvement Needs Further Study				
	After Study is Completed Evaluate Master Plans and Generate List of Future CIP Projects, Enter into DMP	н п	ISWMP			AW	PW, AP	O&M	Sarah Young, Steve Fiori, Joe McCleary	Functioning as Needed			We need to b	e sure that th
	Manage Special Design Reports	Engineering Services Manager	N/A	Ongoing	Ongoing	AW Planning & Engineering	PW Engineering?	AW Project Delivery Services	Vern Adam	Needs Improvement				
Manage Specialty Design Reports	Coordinates With Appropriate Departments	H H	N/A	As-Needed	As-Needed		PW, PROS, Planning, ODA	AW Project Delivery Services, O&M, Regulatory, Business Services		Functioning as Needed Needs Improvement Needs Further Study				
Reports	Manage Budget And Schedule for Individual Studies		N/A	Ongoing	Ongoing		N/A	Business Services AW Project Delivery Services	**	Functioning as Needed Needs Improvement Needs Further Study				
	Participate In Scoping And Consultant Selection		Consultant Selection Spreadsheet	As-Needed	As-Needed		PW Engineering			Functioning as Needed Needs Improvement Needs Further Study				
	Provide Public Involvement And Education	Public Relations Manager?		As-Needed	As-Needed	AW Public Relations?	N/A	AW Planning, Water Conservation?	Greg Baker	Functioning as Needec Needs Improvement Needs Further Study Functioning as Needec				
	Goordinate With- Floodplain Administration	City Floodplain Administrator	N/A	As-Needed	As-Needed	PW- Engineering	AW Planning & Engineering	N/A	Bill McCormick	Needs Further Study				

Master Planning Function Matrix v6.xlsx

	ster Planning g, Planning Services Manag	er											
		Position (Title) Responsible for Managing and Implementing Sub	Data Systems & Software		Service	Dept & Div. with Primary Responsibility (dept/div)	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/ Division)	Individuals with Notable				
Function	Sub Function	Function	Utilized	Existing	Target	2 2 2	535	AW Planning,	Responsibility	Current Status Functioning as Needed	Known Gaps	Notes	
	Coordinate With MS4 Permit To Ensure Reqmts. Are In Plans	Regulatory Compliance Manager?	N/A	As-Needed	As-Needed	AW Regulatory Compliance	N/A	Engineering, Project Delivery, Regulatory Compliance	Sean Lieske	Needs Improvement Needs Further Study			
	Coordinates With 404 Permits For Improvement Location And Design Issues.	Project Delivery Services Manager?	National Wetlands and Surface Waters Maps	As-Needed	As-Needed	AW Project Delivery	N/A	AW Planning, Engineering, Regulatory Compliance, O&M	Steve Fiori, Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study			
	Coordinate With O & M For Maintenance Related Design Issues.	Stormwater Superintendent	N/A	As-Needed	As-Needed	AW SW O&M	N/A	AW Planning, Engineering, Project Delivery	Joe McCleary	Functioning as Needed Needs Improvement Needs Further Study			
	Coordinate With Land Acquisition For Siting Issues.	Real Property Services Manager?	County Assessor's Database	As-Needed	As-Needed	PW Real Property	AW Planning & Engineering	N/A	Joani Cravens	Functioning as Needed Needs Improvement Needs Further Study			
	Coordinates With Streets Department And CDOT	City Engineer	N/A	As-Needed	As-Needed	PW Engineering	CDOT, AW Planning & Engineering	N/A	Kevin Wegener	Functioning as Needed Needs Improvement Needs Further Study			
	Coordinates With Parks And Open Space	PROS Principal Planner	N/A	As-Needed	As-Needed	PROS Planning	AW Planning & Engineering, PW Engineering	N/A	Curtis Bish	Functioning as Needed Needs Improvement Needs Further Study			
	Coordinates With All- Utilities	Misc Utility Reps	Public Utility Maps	As Needed	As Needed	Various	AW Planning & Engineering	N/A	Various	Functioning as Needed Needs Improvement Needs Further Study			
	Regular Project Meetings To Review Work, Schedule, And Budget.	Engineering Services Manager	N/A	Ongoing	Ongoing	AW Planning & Engineering	Fngineering	N/A	Vern Adam	Functioning as Needed Needs Improvement Needs Further Study		(COA) Repeat - combine with item three in this section?	
Manage IGA and Annexation	Coordinate With Planning and Public Works to Identify and Track IGA & Annex. Agreements	Planning Services Manager	IGA Tracking Spreadsheet		Ongoing	AW Planning & Engineering	Real Property,	N/A	Planning Services Manager (Sarah Young)	Functioning as Needed Needs Improvement Needs Further Study	IGA/Annexation agreement tracking process is poorly understood/documented.		
Related Master Studies &	Identify IGAs and Annexations with Master Planning Implications	п п	""		Ongoing	" "	PW Engineering	N/A	""	Functioning as Needed Needs Improvement Needs Further Study			
Commitments	Add Annexation and IGA Related Master Planning to Overall Prioritization		""		Ongoing (?)	""	N/A	N/A	Kelly Neumann, Sarah Young	Functioning as Needed Needs Improvement Needs Further Study			
	Provide Staff Training	Planning Services- Manager	N/A	Annual Plan	Annual Plan	AW Planning & Engineering	PW- Engineering	AW Project- Delivery, O&M	Sarah Young	Needs Improvement Needs Further Study			
Provide Staffing Resources and	Schedule Staff Activities	<u>" "</u>	N/A	Ongoing	Ongoing	<u></u>	N/A	N/A	<u>" "</u>	Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed			
Systems	Evaluate Staffing Needs- and Track Staff- Productivity	<u>" "</u>	N/A	Ongoing	Ongoing	<u>" "</u>	N/A	AW Project- Delivery Services	<u>" "</u>	Needs Improvement Needs Further Study			
	Provide Staff Supervision	<u>n.n</u>	N/A	Weekly	Weekly	<u></u>	PW- Engineering	AW Project- Delivery Services	Sarah Young, Bill- McCormick	/ Functioning as Needed Needs Improvement Needs Further Study Functioning as Needed			
	Manage HR Functions	<u>" "</u>	N/A	As-Needed	As-Needed	<u>""</u>	N/A	Human Resources	Sarah Young, Sheri Martin Kelly Neumann,	Needs Improvement Needs Further Study Functioning as Needed			
	Establish Levels of Training for All Staff	<u>" "</u>	N/A	Annual	Annual	<u>" "</u>	N/A	AW Project- Delivery Services	Sarah Young, Steve Fiori	Needs Improvement Needs Further Study Functioning as Needed			
										Needs Improvement Needs Further Study			

Master Planning Function Matrix v6.xlsx

		Position (Title) Responsible for Managing and Implementing Sub		Data Systems	Level of		kep t. with Primary Responsibility	Cross Departmental Coordination (Department)	Inner Departmental Coordination (Group/ Divi sion)	Individuals with Notable			
Function Maintain	Sub Function Inspect and Maintain Open Channel Banks and Bottoms	Function SW Supervisors, note: Inspection done by OC, maintenance by SW	Studied AW - PW MOU	Utilized Spreadsheet	Existing 80% of earthen channels (61 miles) and 100% of concrete channels (9 miles)	Target 80% of earthen channels (61 miles) and 100% of concrete channels (9 miles)	AW-OPS UDFCD	<u> </u>	OPS Compliance	Superintendent (Joe McCleary), Environmental Inspection Coordinator (Geoff Rabinowitz)	Needs Further Study	Known Gaps	Notes See UDFCD Meeting Notes, See Also Stream Management Plan, and Sedimentation Items Below
Conveyance Systems	Inspect & Maintain Public Conduits	SW Superintendent and SW Supervisors	AW - PW MOU AW Ops Plan 2013		not defined	not defined	AW-OPS	N/A	Stormwater Infrastructure CCTV and Manned Entry inspections, AW Engineering	Stormwater Superintendent (Joe McCleary)	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	inspecting these should be standardized (note that inspection is	CMP assessment completed, RCP assessment starts Nov 2014 and continues into future if funding approved
	Maintain Inlets and Flap Gates	SW Supervisors	AW-PW MOU, AW Ops Plan 2013		Inlets when needed, flap gates quarterly	Same	AW-OPS			Stormwater Superintendent (Joe McCleary)	Functioning as Needed Needs Improvement Needs Further Study		
	Maintain Curbs, Gutters,	Manager of Public Works Operations (Chris	AW - PW MOU				PW-STREETS			Manager of Public Works Operations	Needs Improvement		
	and Sidewalks Repair Crosspans and Inlet Transitions	Carnahan) PW Design Engineer (Raul Griego) and Stormwater Superintendent (Joe McCleary)	AW - PW MOU	tracked on PW spreadsheet	as needed and when budget permits		OPS PW-STREETS OPS	PW	N/A	(Chris Carnahan) PW Design Engineer (Raul Griego) and Stormwater Superintendent (Joe McCleary)	Functioning as Needed	Cross pans need to be added to the MOU	PW coordinates replacements, SW provides funding; coordinated with pavement improvement operations
	Maintain Chase Drains	SW & Streets Supervisors	AW - PW MOU	map books	as needed		PW-STREETS OPS	PW	N/A	Manager of Public Works Operations (Chris Carnahan), Stormwater Superintendent (Joe	Functioning as Needed Needs Improvement Needs Further Study		SW responsibility if drains to a SW asset, otherwise PW responsibility
	Repair and Clean Inlet Boxes	SW Superintendent and SW Supervisors	AW-PW MOU, AW Ops Plan 2013		when inspections identify need	same	AW-OPS	PW	N/A	Superintendent (Joe	Functioning as Needed Needs Improvement Needs Further Study		
	Clean Trash From Inlet Grates in Street	Streets responsibility as identified in MOU	AM DW 14011		y need		PW-STREETS	N/A	N/A	Manager of Public Works Operations (Chris Carnahan)	Functioning as Needed Needs Improvement Needs Further Study		
	Clean Culverts and Pipe Outlets in Ditches	SW supervisors	AW - PW MOU		not defined		AW-OPS	PW	N/A	Stormwater Superintendent (Joe McCleary)	☑ Needs Improvement	Need to add to the infor data a list of outfalls that require cleaning	
	Repair Roadside Ditch Riprap, Including Excavating Sediment and Debris		AW - PW MOU		As-needed		AW-OPS	PW- STREETS	N/A	Stormwater Superintendent (Joe McCleary)	Functioning as Needed Needs Improvement Needs Further Study	Need to update MOU with additional clarification to define who is responsible for roadside ditches; Need tour to review field conditions	
	Maintain Private Conduits	Private Owner	AW - PW MOU				Private Owner	N/A	N/A		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	Need better process of establishing which conduits are City responsibility. Need to inform property owners of their responsibilities - (Joe M): GIS info often incorrect and private assets are identified as COA	Possibly by providing ownership field in GIS or other programs
	Maintain Bridge Components		AW - PW MOU				PW-STREETS OPS			Engineer (Bill McCormick), Manager of Public Works Operations (Chris Carnahan)	Functioning as Needed Needs Improvement Needs Further Study	are identified as COA	
	Maintain Channels Under Bridges	SW superintendent and SW supervisors	AW - PW MOU	Infor	as needed		AW-OPS	PW	N/A	Superintendent (Joe	Needs Further Study		SW activities coordinated with PW engineering
	Maintain Manholes in Streets	Manager of Water Operations and Maintenance (Tom Ries)	AW - PW MOU, & AW IP 2012	Infor	as needed		AW-T&D	N/A	AW-OPS	Stormwater Superintendent (Joe McCleary) and Water T&D Superintendent (Gary Edwards)	☐ Needs Improvement ☐ Needs Further Study		AW pays for or performs adjustment on water valves and manholes. AW pays part of inspections for util repairs
	Provide Snow Removal on Public Property	SW supervisors and other AW supervisors	AW - PW MOU, AW IP 2012	Infor	as needed		PW STREETS OPS, AW-OPS	PW	numerous	Manager of Public Works Operations (Chris Carnahan), Stormwater Superintendent (Joe McCleary)	Needs Improvement	Needs to be re-evaluated.	AW provides approx 40% of equipment and workforce to assist in snow removal. Parks provides snow removal on trails. See Aurora Water Snow Removal Policy.
	Provide Snow Removal on SW Property	SW supervisors Manager of Public Works Operations (Chris	Snow Plan	Infor	as needed		AW-OPS			Stormwater Superintendent (Joe McCleary) PW Streets manages			Street sweeping with be fully funded by AW wastewater fund due to water
	Maintain Drainage	Carnahan) SW supervisors	AW-PW MOU, AW Ops Plan	Infor	maintain 2x	same	AW-OPS		N/A	Stormwater Superintendent (Joe	Needs Further Study Functioning as		quality requirements
	Initially Certify Private MS4 Permit Ponds (post		2015		per year When constructed		AW	PW	Regulatory	McCleary) PW Engineering, AW Engineering	Functioning as Needed Needs Improvement Needs Further Study		See flowchart for ponding certifications - Note, this item is also shown on the Regulatory FM.
Maintain Detention and	construction) Annually Certify Private MS4 Permit Ponds	Environmental Inspection Coordinator (Geoff Rabinowitz)			Annually		AW		Regulatory		Functioning as Needed Needs Improvement Needs Further Study		Note: This item is also shown on the Regulatory Function Matrix
Water Quality Control Features and Erosion Control	Maintain Public Detention Facilities	SW superintendent and SW supervisors	2015	Infor	Monthly	same	AW	no	no		Functioning as Needed Needs Improvement Needs Further Study	SW staff receiving training about operation and maintenance required for permanent BMPs thru CSU SW Center	
	Prioritize Pond Maintenance Activities and Schedule Work	SW supervisors	Stormwater Organizational Chart, Meetings, AW OPS Plan 2015	Spreadsheet, Infor			AW		Regulatory, if MS4		Functioning as Needed Needs Improvement Needs Further Study		
	Maintenance of Private Ponds	Private Owner								Environmental Inspection Coordinator (Geoff Rabinowitz)	☑ Needs Improvement ☐ Needs Further Study	Various gaps exist relative to private pond maintenance - owners don't know what their responsibilities are, inspection intervals have not been set, GIS system doesn't include all ponds and ownerships, and City Code doesn't include language providing for citation and fining owners for unmaintained facilities.	built after 2008 but is silent with respect to ponds built prior to that date.
	Inspect and Document Maintenance Needs Annually	SW superintendent and SW supervisors	Stormwater Organizational Chart, Meetings, AW OPS Plan 2015	Spreadsheet	continual		AW		Regulatory, if MS4		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		(IV): Ensure that there aren't duplicates re: pond maintenance issues between this and the other FM's.

		Position (Title) Responsible for Managing and Implementing Sub	Where	Data Systems	Level of	Service	t. with Primary sonsibility	is Departmental rdination partment)	er Departmental rdination sup/Division)	Individuals with Notable			
Manage Stream Corridors (timay make more sense to the stream controls in general then develop individual plant are security and an electrical controls and	Develop O&M Plan for Each Stream Corridor	SW Superintendent and SW Supervisors	Integrated Stream Management Plan (ISMP)				AW	UDFCD, PROS	N/A	Stormwater Superintendent (Joe McCleary)	Functioning as Needed Needs Improvement Needs Further Study	The integrated Stream Management Plan stops short of identifying tasks to be performed and assigning responsibilities	Development of the O&M Plans for the ISMP were in Progress as of 2012 Progress needs to be updated
	Develop Pest Control- Plans for Each Stream Corridor		ISMP								Functioning as Needed Needs Improvement Needs Further Study		
	Develop Tree Mitigation Plans for Each Corridor		ISMP, AW Ops- Plan 2013								Functioning as Needed Needs Improvement Needs Further Study		
	Develop Wetlands- Management Plan for- Each Corridor		ISMP								Needs Improvement Needs Further Study	Need to add a layer for identified and mapped wetlands within the GIS system if it does not exist. A citywide wetlands survey may be warranted if it has not been completed.	
	Develop Vegetation Plan- for Each Corridor		ISMP								Functioning as Needed Needs Improvement Needs Further Study		•
	Develop Wildlife- Management Plan for Each Corridor		ISMP								☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		
	Develop Woody- Management Plan		ISMP								Functioning as Needed Needs Improvement Needs Further Study		
	Execute O&M Plan Tasks for Each Stream Corridor		ISMP				AW OPS	UDFCD, PROS	N/A	Stormwater Superintendent (Joe	Functioning as Needed Needs Improvement		Specific tasks need to be identified from the ISMP and information
	Execute Pest Control Tasks for Each Stream	73013	ISMP							McCleary)	Needs Further Study Functioning as Needed Needs Improvement		provided in columns to the left
	Corridor Execute Tree Mitigation										Needs Further Study Functioning as Needed Needs Improvement		_
	Tasks for Each Corridor Execute Wetlands		ISMP								☐ Needs Further Study ☐ Functioning as Needed		
	Management Tasks for Each Corridor		ISMP								Needs Improvement Needs Further Study Functioning as Needed		
	Execute Vegetation- Tasks for Each Corridor		ISMP								Needs Improvement Needs Further Study		н
	Execute Wildlife- Management Tasks for- Each Corridor		ISMP								Functioning as Needed Needs Improvement Needs Further Study		
	Execute Woody Management Tasks for		ISMP								Functioning as Needed Needs Improvement		н
	Fach Corridor Provide Spill Response Training	Environmental Permitting Manager (Sean Lieske)	Spill Response Information				AW			Environmental Inspection Coordinator (Geoff Rabinowitz)	■ Needs Further Study ■ Functioning as Needed ■ Needs Improvement ■ Needs Further Study		(IVI): This section needs to be checked with Sean L. and Geoff R spill response is a Regulatory function primarily as well, part of MS4 permit -
Provide Spill Response	Respond to Spills in Accordance with Response Plan	Environmental Permitting Manager (Sean Lieske)	Spill Response Information				AW			Environmental Inspection Coordinator (Geoff Rabinowitz) and	Functioning as Needed Needs Improvement		move there?
Activities	Provide Spill Record Keeping	Environmental Permitting Manager	Spill Response				AW			Operations Compliance Staff	Needs Further Study Functioning as Needed Needs Improvement Needs Further Study		
	Meet Safety	(Sean Lieske) All SW Staff	Spill Response				AW				Functioning as Needed Needs Improvement		
	Requirements Update Spill Response	Environmental Permitting Manager	Information				AW			Environmental Inspection	Needs Further Study Functioning as Needed Needs Improvement		
Provide Sediment	Prioritize and Schedule Channel Inspections	(Sean Lieske) Environmental Inspection Coordinator (Geoff Rabinowitz) and Stormwater Superintendent (Joe McCleary)	Sediment Management Plan (SMP), 2010		N/A	N/A	AW	N/A	ос	Coordinator (Geoff Rabinowitz) Environmental Inspection Coordinator (Geoff Rabinowitz) and Stormwater Superintendent (Joe McCleary)	Needs Further Study Functioning as Needed Needs Improvement Needs Further Study		30% or greater blockage of culverts initiates inclusion on list for cleaning
Management in Drainage Channels	Provide Channel Inspections at Given Interval	Environmental Inspection Coordinator (Geoff Rabinowitz)	SMP 2010				AW	N/A	ос	Environmental Inspection Coordinator (Geoff Rabinowitz) and Stormwater Superintendent (Joe	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		(JM): Geoff R. needs to be consulted for any additional details of this sub- function (i.e. LOS).
	Document Channel Inspection Results	OC Staff, Environmental Inspection Coordinator (Geoff Rabinowitz), Stormwater Superintendent (Joe McCleary)	SMP 2010	SW Excel spreadsheet			AW	N/A	oc	McCleary) Stormwater Superintendent (Joe McCleary) and OC Staff	Functioning as Needed Needs Improvement Needs Further Study		(JM): Stormwater Ops developing a PDF inspection report form.
	Provide a Periodic Risk Assessment of Flooding due to Aggradation	Stormwater Superintendent (Joe McCleary) and Floodplain Manager (Kevin Wegener)	SMP 2010				AW	PW	AW Engineering	Associate City Engineer (Bill McCormick), Stormwater Superintendent (Joe McCleary), and Engineering Services Manager (Vacant)	Needs Improvement Needs Further Study	discussion of the gaps related to this function in the Tech Memo.	(JM): This is a floodplain management function?
	Survey Aggradation Areas	Stormwater Superintendent (Joe McCleary) and Engineering Services Manager (Vacant)	SMP 2010				AW	PW Survey	AW Engineering	Stormwater Superintendent (Joe McCleary) and Engineering Services Manager (Vacant)	☑ Needs Improvement ☐ Needs Further Study	The City needs a stronger method for assessing vegetation and degradation/aggradation in channels, as well as a method for documenting planned and modeled vegetation for each channel. Additional information is needed to	
	Prioritize and Schedule Sediment Removal Projects	Stormwater Superintendent (Joe McCleary), Planning Services Manager (Sarah Young)					AW	PW	AW Engineering	Stormwater Superintendent (Joe McCleary), Associate City Engineer (Bill McCormick)	Needs Improvement Needs Further Study Functioning as Needed	Additional information is needed to develop future plans, activities have been scaled down to small sediment removal projects vs large sediment removal projects due to permitting issues.	
											Needs Improvement Needs Further Study		

Operations and Maintenance Joe McCleary, Stormwater Superintendent

		Position (Title) Responsible for Managing and Implementing Sub	Where	Data Systems	Level of	Service	t. with Primary Jonsi bility	is Departmental rdination partment)	er Departmental rdination rup/Division)	Individuals with Notable			
Provide Other Maintenance Activities	Provide Fall Protection	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors					AW	PW, PROS	N/A	Stormwater Superintendent (Joe McCleary)	Needs Improvement Needs Further Study	(JM): 30" drop within 30' of trail/sidewalk/etc.	
	Provide Graffiti Removal on Channels and Structures	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors	AW Ops Plan 2013		2x per week if needed	2x per week if needed	AW	APD, PROS	N/A	Stormwater Superintendent (Joe McCleary)	✓ Functioning as Needed Needs Improvement Needs Further Study		
	Install and Maintain Gates and Fences	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors	AW Ops Plan 2013		As-Needed	As-Needed	AW	PROS	N/A	Stormwater Superintendent (Joe McCleary)			
	Provide a Periodic Risk- Assessment of Flooding- due to Aggradation		AW Ops Plan 2013								Functioning as Needed Needs Improvement Needs Further Study		(JV/JM): This is a duplicate.
											Functioning as Needed Needs Improvement Needs Further Study		
											Functioning as Needed Needs Improvement Needs Further Study		
											Functioning as Needed Needs Improvement Needs Further Study		
	Levee System Certification	Stormwater Superintendent (Joe McCleary)	AW Ops Plan 2013				AW Supply Division's Dam Insp. Group	N/A	AW Engineering	Stormwater Superintendent (Joe McCleary), Engineering Services Manager (Vacant)			Recertification of Sand Creek Levee required in 2020 activities related t recert should start in 2017
Critical	Dam Maintenance for 3 Dam structures	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors	AW Ops Plan 2013		Monthly and after significant rain events	Monthly and after significant rain events	COA Stormwater Division	N/A	N/A	Stormwater Superintendent (Joe McCleary)	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		(JV): Specify the '3 Dam Structures' (Southshore, Jewell, & Expo?)
Infrastructure Maintenance, Flap Gate & Erosion Control Maintenance	Flap Gate Maintenance for 11 Flap Gates	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors	AW Ops Plan 2013		Quarterly	Quarterly	COA Stormwater Division	N/A	N/A	Stormwater Superintendent (Joe McCleary)	☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study		
	Aurora-Owned Dam and Levee Inspection	Stormwater Superintendent (Joe McCleary)			Annually	Annually	AW	State	AW SOS: Cully	Stormwater Superintendent (Joe McCleary)	Functioning as Needed Needs Improvement Needs Further Study		
	Erosion Control for Maintenance Activities	Stormwater Superintendent (Joe McCleary)	AW Ops Plan 2013		As-Needed	As-Needed	COA Stormwater Division	N/A	N/A	McCleary)	Functioning as Needed Needs Improvement Needs Further Study		(JV): This is redundant with earlie erosion-control sub-function?
	Kelly Rd. Dam Inspections & Maintenance	Stormwater Superintendent (Joe McCleary) and Stormwater Supervisors	AW Ops Plan 2013	Infor	Monthly and Annual Inspections		COA SW	State, USACE	USACE, UDFCD, Lowry	Stormwater Superintendent (Joe McCleary), Water Maintenance Supervisor (Mike Earnest)	Functioning as Needed Needs Improvement Needs Further Study		(JM): New sub-function since COA sponsor, not owner of Kelly Rd (Lo is) so handled differently.

Gaps Identified:

Per Phase 1 Study, Increase efficiency in inspections
Per Phase 1 Increase efficiency in data management
The City may want to consider combining several of the guidance documents sited herein

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Function		Position (Title) Responsible for Managing and Implementing Sub Function	Documented or	Data Systems Utilized	Level of Service Existing Target	Dept. with Prim Responsibility	Cross Departmental Coordination (Department)	nner Departmental Coordination	Individuals with Notable Responsibility	Current Status	Known Gaps	EPA Recommendations	Notes
Provide Resources and Systems Needed to	Evaluate staff needs relative to the Regulatory Environment	implementing Jub Function	Studieu	Otilized	Existing Fulget	AW	0000		Responsioney	Functioning as Needed Needs Improvement Needs Further Study	See EPA Audit for full explanation of		Hotes
	Purchase and Maintain Equipment Related to Regulations					AW				Functioning as Needed Needs Improvement Needs Further Study			
	Provide Public education and outreach on stormwater impacts		EPA			AW				□ Functioning as Needed □ Needs Improvement □ Needs Further Study		ways to more effectively promote the inclusion of LID BMPs in private	
Prepare and Update Documents	Organize and Manage Public Involvement/Participation		EPA			AW				Functioning as Needed Needs Improvement Needs Further Study			
Such as the MS4 Permit and Other	Respond to New Regulations, Permit Updates and Audits		EPA			AW	PW	OPS		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	The Aurora SWMP should address options for achieving compliance with future statewide and national regulations		
Stormwater Regulations	Prepare and Update I & M Plans									☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	I&M Plan template needs to be revised; lack of enforcement by the City for I&M plans not submitted; staff training about I&M plans needs to be conducted; pond certification process needs to be better defined; annual inspections are not being conducted; annual reports are not being submitted by the Responsible Party; enforcement of annual reports is not being conducted by the City	EPA Audit; Meeting with City Regulatory Staff on 8/27/14	
	Manages and coordinates 404 permits		AW SW Org Chart			AW				Functioning as Needed Needs Improvement Needs Further Study			
	Initially Certify Private MS4 Permit Ponds (post construction)				When constructe d	AW	PW	Regulator y	PW Engineering, AW Engineering				
	Annually Certify Private MS4 Permit Ponds	Environmental Inspection Coordinator (Geoff Rabinowitz)			Annually	AW		Regulator Y					
Provide Maintenance, Inspection and Reporting Related to	Respond to Illicit connections, spills, and discharge detection		AW SW Org Chart and EPA			AW	PW, AP	OPS		☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	Aurora would like (someday) to provide a GIS of basin/system/drainage connectivity between all elements to be able to track discharge		Meeting with City Regulatory Stat on 8/27/14
Regulations	Process Extension Agreements					AW	PW, AP			Functioning as Needed Needs Improvement Needs Further Study	Extension Agreements currently change too many hands and do not have one central storage location		Meeting with City Regulatory Stat on 8/27/14
	Provided Employee Training					AW				☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	City needs to provide sufficient employee training to help facilitate the implementation of spill response, illicit discharge detection, identification of non-stormwater discharges, etc.		Stormwater Awareness Training Presentation
	Document work that is being conducted on channels									☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	There are elements of work that is done on channels that is not currently tracked by Public Works		Meeting with City Regulatory Staf on 8/27/14
	Post-construction stormwater management in development/redevel.		EPA			AW	PW	OPS		Functioning as Needed Needs Improvement Needs Further Study	City for I&M plans not submitted;	EPA Audit; Meeting with City Regulatory Staff on 8/27/14	
	Erosion Control Inspections		AW SW Org Chart	AW						☐ Functioning as Needed ☐ Needs Improvement ☐ Needs Further Study	staff training about I&M plans needs		
			-							Functioning as Needed Needs Improvement Needs Further Study Readth Author Study	re assigned to existing Aurora functions		

Note: the minimum measures that didn't fit with existing Aurora functions listed on the AW SW Org Chart were listed under Jill Platt-Kemper's responsibility. Some minimum measures were assigned to existing Aurora functions on a best fit basis, it is unknown if those Functions included all portions of that minimum measure. All of the tasks of the minimum measures are not listed, but will be included in the next version of this document.