



**Water & Wastewater Commission
Review and Recommendation**

Commission Meeting Date:	October 10, 2018
Council Meeting Date:	November 1, 2018
Department:	Austin Water
Client:	Olivia Beck, Mehrdad Morabbi, Bill Stauber, Rick Coronado, and Chris Chen
Agenda Item	
<p>Authorize negotiation and execution of an Interlocal Agreement between the University of Texas at Austin and the City of Austin for consulting services regarding the beneficial use of lime residuals generated at the City's water treatment plants in the amount of \$98,500 plus a \$4,925 contingency, for a total contract amount not to exceed \$103,425. (District 2)</p>	
Amount and Source of Funding	
<p>Funding is available in the Fiscal Year 2018-2019 Operating Budget of Austin Water.</p>	
Purchasing Language:	N/A
Prior Council Action:	June 23, 2016- Council approved an interlocal agreement (20160623-005), with the University of Texas for consulting services regarding the beneficial use of lime residuals generated at the City's water treatment plants.
Boards and Commission Action:	October 10, 2018 – To be reviewed by the Water and Wastewater Commission.
MBE/WBE:	N/A

The City of Austin uses lime softening at its water treatment plants to remove hardness from the drinking water. This process produces calcium carbonate residuals that must be dewatered and removed from the water treatment facilities. Through subsequent processing, residuals are created that contain about 55-60% solids, composed mostly of lime, with the remainder being water. These residuals are hauled from the water treatment plants and are currently disposed at the City's Shaw Lane Lime Residuals Disposal Facility (former quarry). Due to the volume of residuals being produced and the limited storage capacity at the Shaw Lane site, Austin Water would like to explore alternative options for disposing and reusing of lime residuals.

The scope of work for this interlocal agreement is a full-scale study aimed at evaluating the feasibility of using the lime residuals generated in the water treatment process for cement manufacturing. The previous interlocal agreement, completed in 2017, proved through bench-scale testing and a market evaluation that cement manufacturing is a viable solution to beneficially reuse Austin's lime residuals; however, a full-scale trial is necessary to prove the operational feasibility of using the lime residuals in cement manufacturing. These results would assist Austin Water in establishing a long-term plan for the disposal and potential reuse of lime residuals while promoting the City of Austin's values of Innovation and Sustainability.

This interlocal agreement allows Austin Water to obtain consulting services from the University of Texas at Austin to confirm the feasibility of beneficially using the lime residuals generated at the City's water treatment plants through full-scale trials for a total of \$98,500. A contingency of \$4,925 in funding is also requested to cover possible changes to the scope that may become necessary during the study.

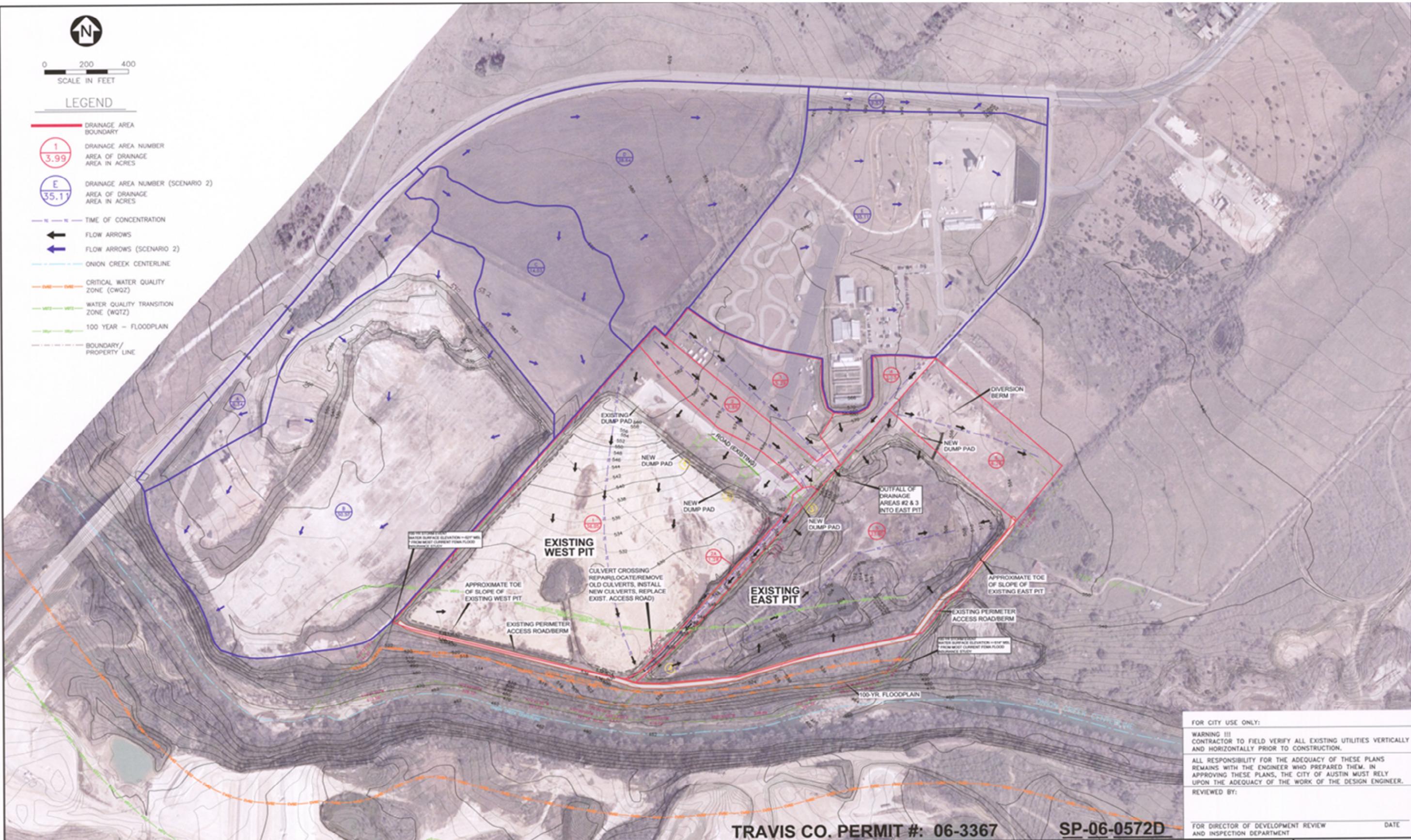
This project is located within District 2 and is managed by Austin Water.



0 200 400
SCALE IN FEET

LEGEND

- DRAINAGE AREA BOUNDARY
- 1
3.99 DRAINAGE AREA NUMBER
AREA OF DRAINAGE AREA IN ACRES
- E
35.11 DRAINAGE AREA NUMBER (SCENARIO 2)
AREA OF DRAINAGE AREA IN ACRES
- TIME OF CONCENTRATION
- FLOW ARROWS
- FLOW ARROWS (SCENARIO 2)
- ONION CREEK CENTERLINE
- CRITICAL WATER QUALITY ZONE (CWQZ)
- WATER QUALITY TRANSITION ZONE (WQTZ)
- 100 YEAR - FLOODPLAIN
- BOUNDARY/PROPERTY LINE



FOR CITY USE ONLY:
 WARNING !!!
 CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.
 ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
 REVIEWED BY:

TRAVIS CO. PERMIT #: 06-3367

SP-06-0572D

FOR DIRECTOR OF DEVELOPMENT REVIEW AND INSPECTION DEPARTMENT DATE

DESIGNED BY: DBF
 DRAWN BY: RPS/jbs
 CHECKED BY: DBF
 APPROVED BY: DBF
 REVISION DATE: 1/30/08



NEI NAISMITH ENGINEERING, INC.
 ENGINEERING • ENVIRONMENTAL • SURVEYING
 AUSTIN CORPUS CHRISTI BROWNSVILLE TEXAS
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 AUSTIN, TEXAS 78701
 (512) 708-9322

**DRAINAGE AREA MAP
 OFF-SITE AREAS
 SCENARIO 2**

JOB NO. 7057-1
 SHEET ____ OF ____
 DRAWING NO. 7057-1D12 DA

NO	REVISION	BY	DATE