



Documentation for
Grease and odor control project
using

Micro-Solve®

PROJECT – Houston Rodeo

CLIENT – Reliant Park

LOCATION – North Dock Grease Trap #88798

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Mark Bechtold – Maintenance Foreman Reliant Park

LaNiece Blue – Environmental Investigator IV City of Houston Health Department

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This report outlines the progress of the Micro-Solve® pilot being applied at the **North Dock Grease Trap #88798** and the added downstream benefits.

North Dock Grease Trap #88789

Grease trap vacuum out January 30 2013.



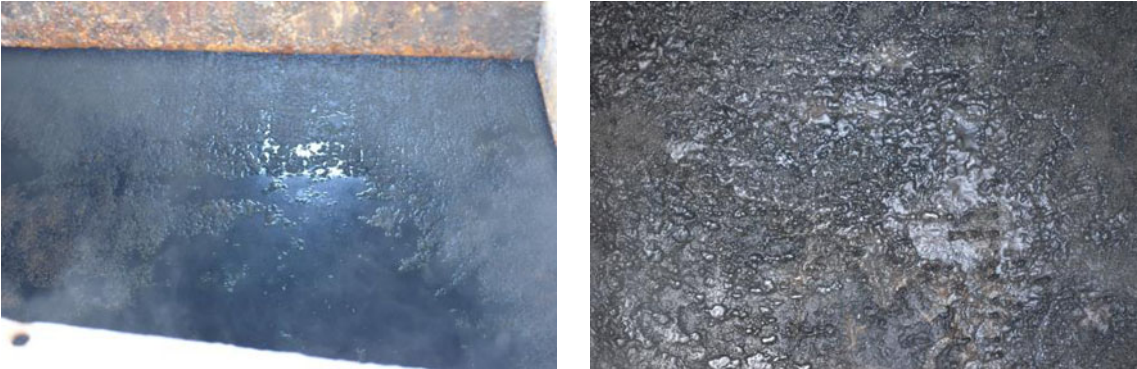
February 22 2013 First application (Rodeo starts on the 25). Sample taken.



February 28 2013 Second application.



March 13 2013 Fourth application. Sample taken.



March 21 2013 Fifth application (Rodeo ended March 17 2013).



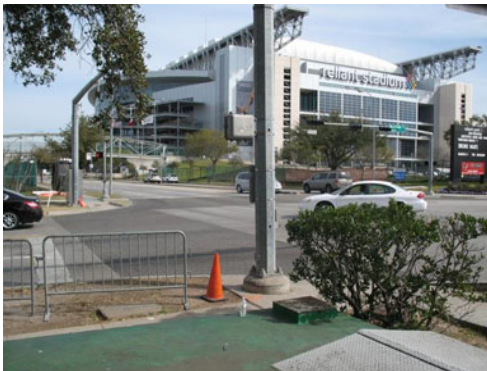
April 4 2013 One month after last application.



August 16 2013 Three months since last application.



**Kirby Lift Station #1
Lift station location.**



March 7 2013 After second application.



April 4 2013 Final application.



May 5 2013 One month after last application.



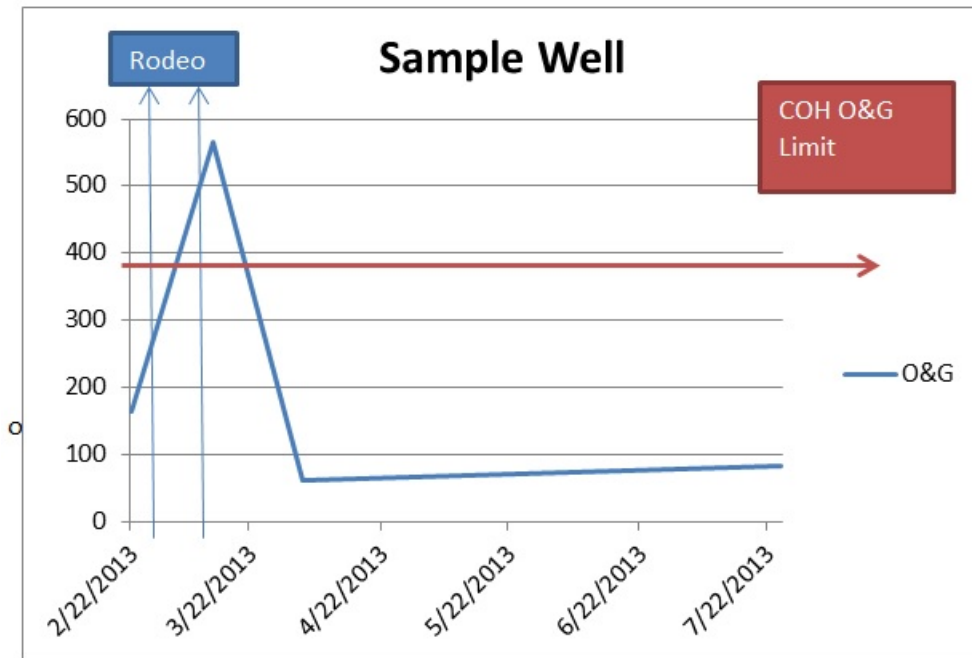
August 16th 2013 Three months since last application.



You can see the downstream effects from using Micro-solve® very clearly at this Kirby #1 location. Micro-solve® aids in breaking up the hard grease and long grease chains, this opens an environment for the microbes to feast on the now available food supply. The lift station manager reported no problems with Kirby #1 during the Rodeo this year.

Data

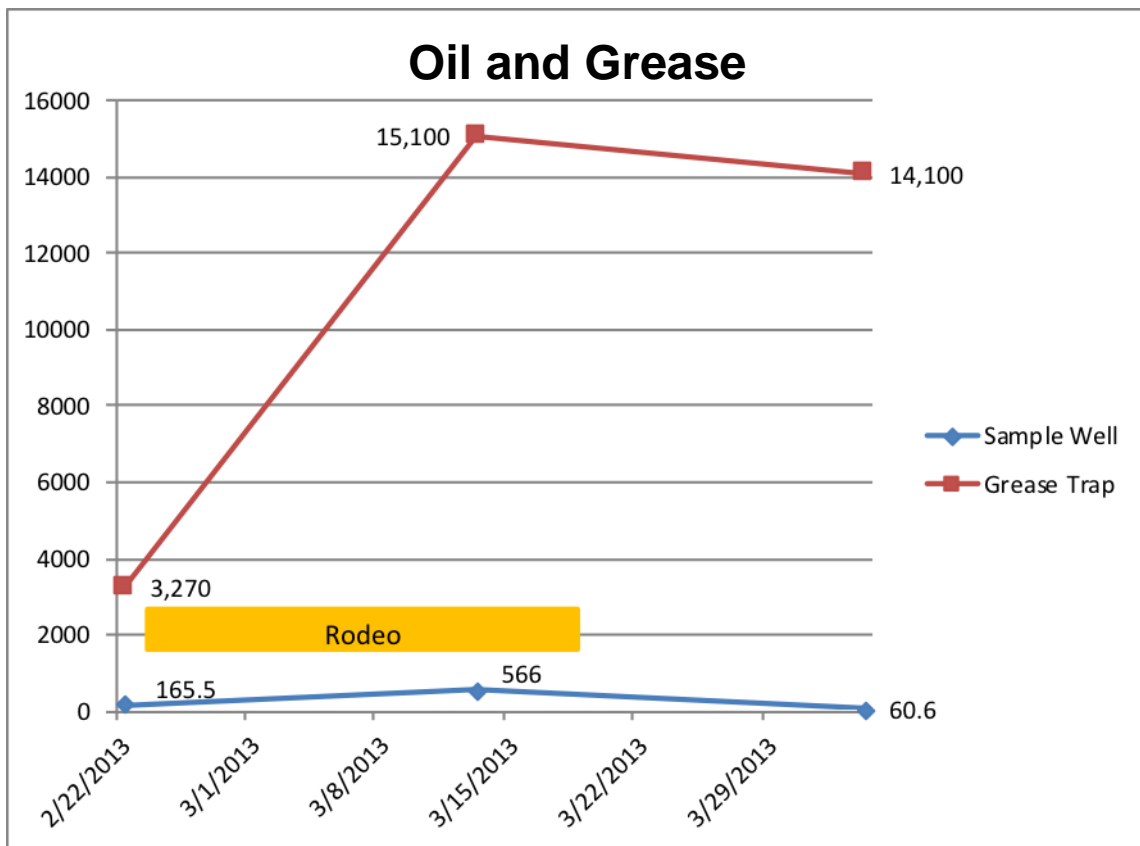
The chart below was compiled from the samples taken by the COH. If anyone needs to be forwarded the data please call me 713.447.2458 or email at donald@egsw.us



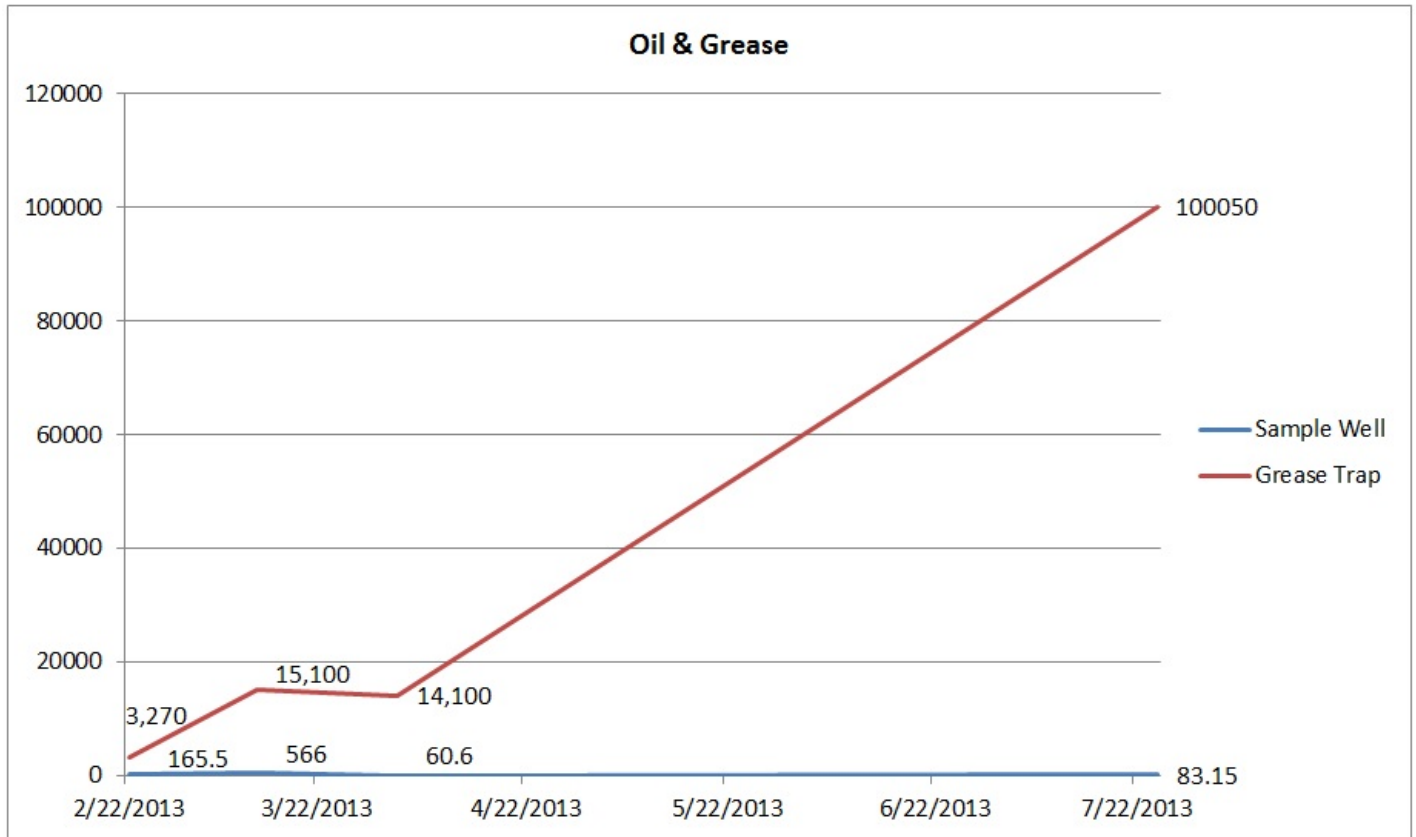
This graph starts with our first data date of February 22, 2013 which was also the first application date and ends after the three month observation period.



The rodeo was to begin on February 25 2013 which did not give us enough time to treat the trap so results had to be later. The grease trap was Vac'ed out on January 30 2013, and Reliant Stadium had a couple of big shows in February leading up to the Rodeo. On March 15 2013 the Oil and Grease measured 566 which is out of specification with COH and should be maintained below 400. This effect did not last very long and the next measure point of April 3 2013 we hit below our starting mark at 60.6 oil and grease content. I believe earlier application of Micro-Solve® would eliminate this problem, and probably an increased dosage amount during the Rodeo would help. As of the last sample date of August 16 2013 the Oil and Grease mark was well below 400 at the sample well at an average of 83 oil and grease content. This concrete evidence that Micro-Solve® continues to work long after application, greatly enhancing the effectiveness of grease traps as well as cleaning downstream lines should be considered. We applied Micro-Solve® at a rate which, if applied to all grease traps throughout Reliant proportionately, would be more cost effective than the current pumping schedule. I believe a small exception should be made for the Rodeo, and dosage amounts should increase for the rodeo.



As of March 29 2013 the grease trap was more effective Micro-Solve® in it even though it had over 4 times the amount of grease in it.



After a three month observation period you can see that even with a near 3000% increase in oil and grease in the trap Micro-Solve® has kept the sample well water to a very low 83.15 oil and grease content. Micro-Solve® breaks apart long grease chains, increases the phase oil separation process and microbe population thus greatly enhancing the effectiveness of a grease trap.

I want to personally thank Mr. Mangat for his grease trap to experiment with, Mr. Bechtold for keeping me safe and for his precious time; Ms. Blue & Ms. Macias, and their entire staff for their support and cooperation. You all have made this a great experience for me and hopefully we can clean up some grease so we don't have to smell it anymore!

Sincerely,

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