



SCI ENGINEERING, INC.

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Underground Storage Tank Closure

**MOBIL 225
2305 DROSTE ROAD
ST. CHARLES, MISSOURI**

November 10, 2015

Prepared for:

WALLIS COMPANIES

SCI No. 2006-0241.28



SCI ENGINEERING, INC.

CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

November 10, 2015

Mr. Donnie Greenwalt
Wallis Companies
106 East Washington
Cuba, Missouri 65453

RE: Mobil 225
2305 Droste Road
St. Charles, Missouri
ST No. 005305
Incident # 1509291009ESM
SCI No. 2006-0241.28

Dear Mr. Greenwalt:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to provide this Underground Storage Tank (UST) Closure Report for the above-referenced site. As indicated in the attached report, SCI performed closure sampling and reporting associated with three 10,000-gallon steel gasoline tanks and one 10,000-gallon fiberglass diesel tank removed from the site. The attached report contains the required documentation. The report also includes additional details of an excavation that took place onsite following the UST closure.

UST SYSTEM REMOVAL AND SAMPLING

SCI mobilized to the subject site on September 14, 2015, to perform UST closure sampling activities for the above referenced USTs. Parker Petroleum performed excavation activities. The subject site is depicted on a USGS topographic map contained as Figure 1. The site and surrounding properties are depicted in Figure 2. An aerial photograph is contained as Figure 3.

Upon mobilizing to the site, the concrete atop the UST pit was broken, removed and disposed of as clean fill. The backfill around the USTs was then excavated and stockpiled on-site. Closure sampling activities were performed September 15 through September 17, 2015. MDNR closure forms are included as Appendix A.

Following removal of the necessary backfill, the USTs were removed. Water was not identified in the UST pit and was not encountered during UST removal activities. Neither, bedrock nor a concrete pad was encountered during excavation. Therefore, six samples were collected below the gasoline USTs at a depth of 16 feet and two samples were collected below the diesel UST at a depth of 12 feet. Two samples were also collected from the downgradient wall at depths of 12 and 16 feet.

Four associated pump islands, as well as the line trench leading to each, were also excavated. Soil samples were collected along each 20-linear feet of the piping (6 samples). Samples were also collected below each of the four pump islands.

Analytical testing indicated concentrations of chemicals of concern (COCs) above the Missouri Risk-Based Corrective Action (MRBCA) Default Target Levels (DTLs) and TPH-GRO concentrations above the MRBCA Tier One Residential Risk Based Target Levels (RBTLs) in the samples beneath both ends of Tank 3 and the south end of Tank 4. Due to the exceedance of DTLs detected in soil samples collected during UST activities, SCI contacted MDNR to report a release. Incident number 150929-1009-ESM was issued for the site.

Due to the DTL exceedances, SCI returned to the site October 23, 2015 to excavate the impacted soils. Excavation beneath the tanks was advanced approximately 10 feet vertically below the southern end of Tank 4 and approximately 6 feet vertically below Tank 3 to a depth of 21 feet. Excavation activities were guided with a photo ionization detector (PID) and were continued laterally and vertically until readings significantly decreased.

Excavated material was direct loaded for transport and disposal at the IESI Champ Landfill in Bridgeton, Missouri. Samples collected from the sidewalls and base of the over-excavation did not indicate exceedances of the DTLs. Approximately 76 cubic yards of impacted soils were disposed of at the IESI landfill from the tank pit excavation. Documentation of soil disposal is contained in Appendix B.

Results of analytical testing indicate that all remaining tank closure samples collected were below the MDNR DTLs for the COCs. A map depicting sample locations is contained as Figure 4. Copies of all analytical test results and a summary table are contained in Appendix C.

During UST removal activities, an estimated 690 cubic yards of backfill were excavated from the tank pit and product line trenches. Therefore, seven samples were collected from the excavated backfill for laboratory analysis. Analysis concluded that the backfill samples from the UST pit, line trenches, and pump islands did not exceed the DTLs. Therefore, all of the backfill was returned to the tank pit.

After removing the tanks, they were subsequently cleaned and hauled to Perlow Salvage in Troy, Missouri. The USTs were in good condition with minimal signs of deterioration on the interior of the tanks. Two 55-gallon drums of tank cleaning waste was generated during UST removal activities. Documentation of the tank cleaning and disposal is contained in Appendix D. Disposal documentation was not available as of the date of this report. Documentation of tank waste disposal will be submitted under separate cover once available. Photographic documentation of UST removal is contained in Appendix E.

No USTs or ASTs are present on-site. The site will continue to be utilized for non-residential purposes for the foreseeable future.

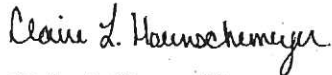
CONCLUSION

Soil and groundwater samples collected during UST removal identified COCs above the DTLs. Due to the exceedance of DTLs, SCI contacted MDNR to report a release. Incident number 150929-1009-ESM was issued for the site. In order to remove the impact which exceeded the DTLs, approximately 76 cubic yards of soil were excavated and disposed at IESI Champ Landfill. Confirmation samples collected following excavation activities indicate that the samples that exceeded DTLs were successfully removed. Therefore, SCI requests that MDNR issue a "No Further Action" (NFA) letter for the tank removal activities at the site.

Please contact me should you have any questions or comments regarding this closure report.

Respectfully,

SCI ENGINEERING, INC.



Claire L Hoernschemeyer
Staff Scientist



Jeffrey M. Langston, R.G.
Senior Project Scientist

CLH/JML/hmm

Enclosures

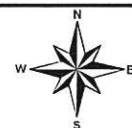
C: Ms. Teresa Bullock, Missouri Department of Natural Resources
Mr. John Aldrich, Petroleum Storage Tank Insurance Fund



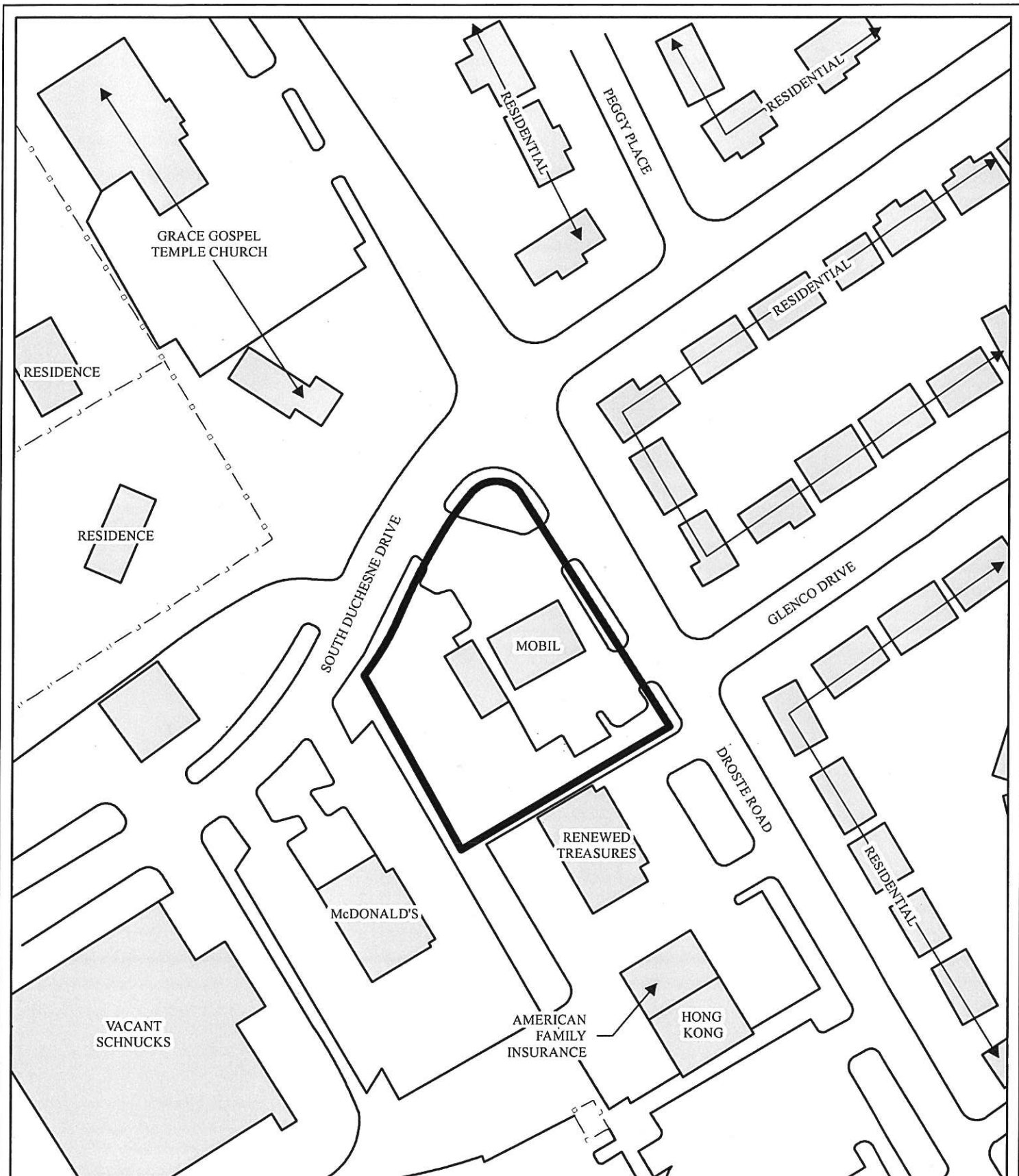
VICINITY MAP

GENERAL NOTES/LEGEND

STREET MAP
http://goto.arcgisonline.com/maps/World_Street_Map



SCALE	1" = 2,000'
FIGURE	1



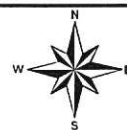
PROJECT NAME
 MOBIL 225 - 2305 DROSTE ROAD
 ST. CHARLES, MISSOURI

SITE/SURROUNDING PROPERTIES MAP

DRAWN BY	LAP	DATE	JOB NUMBER
CHECKED BY	CLH	11/2015	2006-0241.28

GENERAL NOTES/LEGEND



DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.



SCALE
 1" = 100'

FIGURE
 2



	PROJECT NAME MOBIL 225 - 2305 DROSTE ROAD ST. CHARLES, MISSOURI			GENERAL NOTES/LEGEND	
	AERIAL PHOTOGRAPH				
	DRAWN BY LAP	DATE 11/2015	JOB NUMBER 2006-0241.28		
	CHECKED BY CLH				
				SCALE 1" = 100'	FIGURE 3