



Phase I Environmental Site Assessment

0.43-Acre Vacant Parcel (APN 117-04-1940) 515 North 9th Avenue Tucson, Arizona

Presented to:

**City of Tucson
Environmental Services**
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August 13, 2008
AAI Date: June 15, 2008
File No. 10207028.04

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SCS ENGINEERS

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Ms. Lynn Birkinbine
City of Tucson Environmental Services
100 North Stone Avenue, 2nd Floor
Tucson, AZ 85701

Subject: Phase I Environmental Site Assessment
0.43-Acre Vacant Parcel
(APN 117-04-1940)
515 North 9th Avenue
Tucson, Arizona

Dear Lynne:

SCS Engineers (SCS) is pleased to submit this Phase I Environmental Site Assessment for the above-referenced project located in Tucson, Arizona. SCS appreciates the opportunity to assist you with this project. If you have any questions regarding this report, please feel free to contact Pat Hartshorne at (520) 696-1617.

Sincerely,

Stephen James
Environmental Technician

Patricia M. Hartshorne, RG
Project Manager
SCS ENGINEERS

SJ/PMH:sj
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EXECUTIVE SUMMARY

City of Tucson Environmental Services (COT ES) retained SCS Engineers (SCS) to perform a Phase I Environmental Site Assessment (ESA) for a 0.43-acre vacant parcel located at 515 North 9th Avenue in Tucson, Arizona (site). The Pima County Assessor's Parcel Number (APN) for the site is 117-04-1940. The ESA consisted of a site reconnaissance; interviews; review of environmental, historical, and physical records pertaining to activities on and adjacent to the site; and interpretation and reporting of findings.

At the time of the site reconnaissance, the east portion of the site contained garden areas, a wood ramada, a mud and straw oven, wood benches, composting bins, and a 55-gallon drum that appeared to be used for water. An excavation was located in the northeast portion of the site. A subsurface culvert to convey stormwater for the Tucson Arroyo is located on the northern portion of the site; the COT has an easement on the site for this drainage.

Based on the historical information reviewed, the site contained residences by 1901 through at least 1919. An arroyo crossed the northern portion of the site prior to 1901 until at least 1919; the arroyo was apparently channeled through the site via a subsurface culvert sometime between 1919 and 1947. Information regarding site uses was not found for the 1920s and 1930s. By the 1940s until at least 1960, the site was vacant. From approximately 1967 through the late 1970s, the site was used for storage of tractor trailers and possibly other materials. The site may have been used as a rental parking lot in the early 1980s. From approximately 1988 to the present, the site was vacant.

Recently a community garden was being developed on the site by neighbors; however, stained soil was discovered during excavation work on the site and a limited soil assessment was performed in June 2008 that identified concentrations of polynuclear aromatic hydrocarbons (PAHs), lead, and mercury that exceeded regulatory cleanup levels, as follows:

- None of the PAHs exceeded the 10^{-5} residential soil remediation levels (RSRLs). However, benz[a]anthracene (0.82 mg/kg) and benzo[a]pyrene (0.34 mg/kg) exceeded the 10^{-6} RSRLs in one sample (UPRR-5); the 10^{-6} RSRLs are applicable to properties that are occupied by or are planned for day care or school facilities.
- Arsenic exceeded the RSRL of 10 mg/kg in three samples (UPRR-1, UPRR-2, and UPRR-3), ranging from 22 to 51 mg/kg; the non-residential soil remediation level (NRSRL) is also 10 mg/kg.
- Lead exceeded the RSRL of 400 mg/kg in two samples (UPRR-1 and UPRR-3) and the NRSRL of 800 mg/kg in one sample (UPRR-2), with concentrations ranging from 480 to 1,400 mg/kg.

Properties adjoining the site are currently or have historically consisted of a fuel and feed company; freight, transfer, and storage companies; a roofing company; a door company; a puppet company; art companies; produce distributors; an open air market; a building materials company; a trailer rental company; a woodworking company; a press; a cement warehouse; residences; and railroad tracks. The arroyo that crosses the site extends onto properties east and

west of the site. Aboveground petroleum storage tanks were formerly located on the property adjoining the western portion of the site to the north. According to a former resident of the property adjoining the eastern portion of the site to the north, the petroleum storage tanks caught fire at least once during the time that she lived there (between 1940 and 1946).

The site was not identified in environmental database listings. Environmental regulatory database listings identified in the vicinity of the site included six Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) sites; one Resource Conservation and Recovery Act (RCRA) generator listing; one Arizona Water Quality Assurance Revolving Fund (WQARF) site; one Superfund Programs List site; one Brownfields/Voluntary Remediation Program site; nine underground storage tank (UST) facilities; 16 leaking UST (LUST) facilities; and 26 registered well listings. The following identified environmental regulatory database listings may be considered potential recognized environmental conditions (RECs) for the site:

- The Union Pacific Railroad (UPRR) Passenger Depot Brownfields/Voluntary Cleanup Program and ADOT Equipment Services LUST site are located along the railroad corridor, which has known groundwater and soil contamination in several locations, primarily by diesel fuel, with lesser amounts of gasoline and volatile organic compounds (VOCs); the UPRR has been performing investigations of contamination along the railroad corridor. The UPRR Passenger Depot facility has known soil contamination down to the level of groundwater. The ADOT Equipment Services LUST site has soil contaminated by petroleum hydrocarbons and the perched groundwater aquifer beneath the property is contaminated by diesel fuel. A soil vapor extraction system was used to treat contamination in the vadose zone in 2005.
- The Yellow Cab Company was listed as having an open LUST case with free product present on groundwater and/or surface water. This facility is included within the 7th Street and Arizona Avenue WQARF Registry site area discussed below.
- Olivers Cleaners/7th Street and Arizona Avenue CERCLIS site and Superfund Programs List site, the Downtown Auto Center CERCLIS site, and the Yellow Cab Company LUST site are located within the 7th Street and Arizona Avenue WQARF Registry site area. Groundwater contamination in the perched aquifer associated with the WQARF site is located approximately 0.1 mile east and southeast of the subject site. Perched groundwater at this WQARF site has been impacted by tetrachloroethene (PCE) and trichloroethene (TCE). The subject site is not currently located within the groundwater plume; however, based on the proximity of the groundwater contamination plume to the site and the direction of groundwater flow in the perched aquifer, future environmental impacts to groundwater beneath the site could be possible.

Recognized Environmental Conditions

SCS has performed a Phase I ESA in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-05 and COT specifications

for a 0.43-acre vacant parcel located at 515 North 9th Avenue in Tucson, Arizona. Any exceptions to, or deletions from, this practice are described in Section 10 of this report. This assessment has revealed evidence of the following potential RECs in connection with the site.

- A limited soil assessment report identified concentrations of PAHs and metals that exceeded soil cleanup levels in soil samples collected on the site: benzo[a]anthracene and benzo[a]pyrene exceeded the 10^{-6} RSRL in one sample; lead exceeded the RSRL in two samples and the NRSRL in one sample; and arsenic exceeded the RSRL and NRSRL in three samples. The extent of contamination has not been defined.
- A railroad adjoins the site to the south and scattered railroad ballast was observed on the site. Potential contaminants that may be associated with railroad properties are arsenic, lead, and other metals; petroleum hydrocarbons; PAHs; and polychlorinated biphenyls (PCBs).
- Aboveground petroleum storage tanks were historically located on the property that adjoins the western portion of the site to the north; these tanks reportedly burned at least once in the 1940s according to a former residence of a property adjoining the site. It is possible that petroleum hydrocarbons and associated chemicals released by the fires could have flowed onto the site.
- Groundwater contamination associated with various releases has been previously identified along the railroad corridor and in the 7th Street and Arizona Avenue WQARF Registry area. Although the site does not appear to be within the identified boundaries of known groundwater contamination, future environmental impacts to groundwater beneath the site could be possible.

Recommendations

Based on the findings of this Phase I ESA for the site, SCS recommends the following:

- Based on the results of the limited soil assessment previously performed on the site in 2008, additional soil sampling should be performed to define the lateral and/or vertical extent of the identified contamination.
- In addition, surface soil sampling should be performed adjacent to the areas where railroad ballast is located on the site or via a sampling grid to determine the extent of potential contamination from activities of the adjacent railroad. Sample analyses should include arsenic, lead, and other metals; petroleum hydrocarbons; PAHs; and PCBs.
- Surface soil sampling should also be performed on the northwest portion of the site to assess any residual contamination that may be present as a result of the former petroleum storage tank fires and potential releases. Samples should be analyzed for petroleum hydrocarbons and PAHs.

- SCS does not recommend additional environmental investigation regarding potential impacts to groundwater beneath the site if construction activities associated with future development of the site will not extend to the level of groundwater. However, if construction activities are planned that could encounter groundwater, additional research should be performed to determine whether prior investigations of groundwater contamination in the vicinity of the site by UPRR or other parties have identified whether contamination extends to groundwater beneath the site. If there is no information for the site, this information could be obtained by installation and sampling of one or more groundwater monitoring wells on the site downgradient of areas of known groundwater contamination. If feasible, this could also be accomplished using a geoprobe or hydropunch to sample groundwater without installing a permanent well.

1 INTRODUCTION

PURPOSE

City of Tucson Environmental Services (COT ES) retained SCS Engineers (SCS) to perform a Phase I Environmental Site Assessment (ESA) for a 0.43-acre vacant parcel located at 515 North 9th Avenue in Tucson, Arizona (site). The Pima County Assessor's Parcel Number (APN) for the property is 117-04-1940. The ESA consisted of a site reconnaissance; interviews; review of environmental, historical, and physical records pertaining to activities on and adjacent to the site; and interpretation and reporting of findings. A Site Location Map is provided as Figure 1 in Appendix A.

This ESA was conducted to evaluate the potential for recognized environmental conditions (RECs) at the site as defined in the American Society of Testing and Materials (ASTM) Standard E 1527-05 and is intended to fulfill the all appropriate inquiry clause of the "innocent landowner defense" and "bona fide prospective purchaser" clauses of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). ASTM Standard E 1527-05 defines RECs as:

The presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a *material threat* of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs.

DETAILED SCOPE OF SERVICES

This work was performed in accordance with the current City of Tucson (COT) contract No. 071100 and our Proposal No. 10.050208. Notice to proceed was received from COT ES on June 10, 2008. This ESA was conducted in accordance with the guidelines set forth in the ASTM Standard E 1527-05, and consisted of the following four components:

- **Site Reconnaissance** – A visual reconnaissance of the subject site and surrounding properties;
- **Records Review** – Examination of historical documents and state and federal regulatory agency records;
- **Interviews** – Interviews with individuals and public officials familiar with the site's history; and

- **Report** – Evaluation and Report.

SHELF LIFE OF AAI DOCUMENTS

The AAI rule specifies that all appropriate inquiries must be conducted within a one-year period prior to the date a property is acquired. The United States Environmental Protection Agency (EPA) has defined the acquisition date to be the date on which the property title is transferred. To ensure full coverage under the AAI rule, a valid ESA report must be completed within a 12-month period prior to transfer of title.

However, selected ESA report components and supporting information sources must be updated if they were completed more than six months (180 days) prior to title transfer. The specific ESA components with a 180-day shelf life include:

- Site inspection;
- Interviews with knowledgeable persons;
- Review of government regulatory records;
- Search for environmental cleanup liens; and
- Declaration/signature of certifying Environmental Professional.

The AAI date included on the cover of the report indicates the date that research was performed for the different components of this project, whichever is the earliest.

SIGNIFICANT ASSUMPTIONS

Based on documents reviewed, interviews with knowledgeable people, and a site reconnaissance, SCS assumes that information collected during this ESA is accurate and correct. Unless warranted, information collected has not been independently validated as part of this ESA.

LIMITATIONS AND EXCEPTIONS

This report has been prepared for COT ES with regard to the assessment of environmental conditions of the subject property. This assessment focused on potential sources of hazardous substances or petroleum products that could be considered a REC and a liability due to the presence in significant concentrations (e.g., above acceptable limits set by the federal, state or local government) or due to the potential for contamination migration through exposure pathways (e.g., groundwater). Materials that contain substances that are not currently deemed hazardous by the EPA were not considered as part of this study.

Hazardous substances occurring naturally in plants, soils, and rocks (e.g., heavy metals, naturally occurring asbestos, or radon) are not typically considered in these assessments. Similarly, construction debris (e.g., discarded concrete, asphalt) is not considered unless observation suggests that hazardous substances are likely to be present in significant concentrations or likely to migrate.

The terms “solid waste debris” or “rubbish” are used to describe wastes such as paper, plastic, glass, food packaging, cans, bottles, and other similar materials. These materials do not represent a REC.

The report has been prepared in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants, under similar circumstances at the time the services were performed, in this or similar localities. No other representations, either expressed or implied, and no warranty or guarantee is made as to the professional advice presented herein. SCS assumes no responsibility for the accuracy of information obtained from, compiled, or provided by third-party sources, such as regulatory agency listings.

DATA GAPS

Certain limitations that could affect the accuracy and completeness of these reports are as follows:

- **Site Access Limitations** – None.
- **Physical Obstructions to Observations** – None.
- **Outstanding Information Requests** – None.
- **Historical Data Sources Failure** – The earliest identified historical information reviewed that indicated site usage was dated 1901; at that time there were apparently residences located on the site. Earlier historical data indicating the uses of the site was not found. However, because the earliest uses of the site appear to be residential, this data gap is not expected to affect the conclusions of this report. In addition, information regarding the uses of the site in the 1920s and 1930s was not found; however, because the site is already under investigation for soil contamination, this data gap is not expected to change the conclusions of this report.
- **Other** – None.

SPECIAL TERMS AND CONDITIONS

SCS and COT ES agreed upon the terms and conditions set forth in SCS’s proposal. If additional services not normally performed as part of a Phase I ESA are included in the scope of services, these additional services are listed herein. This ESA report does not purport to address safety concerns, if any, associated with the use of the subject site or exposure to safety concerns from adjoining facilities. It is the responsibility of the owner and/or the user of this ESA report to establish appropriate safety and health practices and determine the applicability of regulatory limitations. SCS is not required to identify safety concerns unless otherwise required in the scope of work.

This report does not include assessment of issues described by the ASTM as non-scope: asbestos, radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources,

endangered species, indoor air quality (including an assessment of potential vapor intrusion into structures), biological agents, mold, and other issues unless otherwise noted. Unless specifically included in our scope of services, consideration of other building materials such as water supply plumbing, urea formaldehyde, and pressure-treated lumber are not considered in this report.

This ESA is not a compliance audit for regulatory compliance with Federal, State, and local statutes, laws, rules or regulations.

Unless otherwise noted, no sampling or laboratory analyses were performed as part of this Phase I ESA. Although this report may provide recommendations regarding the possibility of RECs specific to this site, positive identification of hazardous substances can be accomplished only through sampling and appropriate laboratory analysis.

USER RELIANCE

This report has been prepared at the request and for the exclusive use of the COT. Reliance cannot be transferred without the written permission of the COT and SCS, and only if the other party agrees to the same terms and conditions to which the COT and SCS agreed.

2 SITE DESCRIPTION AND RECONNAISSANCE

LOCATION AND LEGAL DESCRIPTION

The site consists of a vacant parcel of land located at 515 North 9th Avenue in Tucson, Arizona. The site is located in the southwest quarter of Section 12, Township 14 South, Range 13 East, Gila and Salt River Base Line and Meridian, Pima County, Arizona. A Site and Vicinity Map is provided as Figure 2 in Appendix A.

SITE AND VICINITY GENERAL CHARACTERISTICS

The site consists of vacant land enclosed by a fence. Land in the vicinity of the site consisted of commercial properties, residences, vacant land, and a railroad.

CURRENT USE OF THE SITE

Methodology and Limiting Conditions

On June 27, 2008, Mr. Stephen James of SCS performed a visual reconnaissance of the site in order to observe current site conditions and uses. The site was observed by walking through the site and around the perimeter of the site. During the site visit, adjoining properties were also observed. Photographs of the site and adjoining properties are included in Appendix B.

General Site Setting

The topography of the site was generally level, sloping to the west.

Current Site Uses

The site was enclosed by a fence. The site contained garden areas, a wood ramada, and wood benches. A mud and straw oven was located west of the ramada. Composting bins and a 55-gallon drum that appeared to be used for water were located northwest of the oven. A water hose was observed on the site that appeared to be connected to a residence north of the site. An excavation (approximately 10 feet diameter by 2 feet deep) was located in the northeast portion of the site.

Evidence of Past Site Uses

No evidence of past uses was observed on the site.

Site Improvements

Structures

A wood ramada was located on the east portion of the site.

Roads

No roads were observed on the site.

Potable Water Supply

A potable water source was not observed on the site.

Sewage Disposal System

Evidence of municipal sewer service was not observed on the site.

Septic System

Evidence of septic systems was not observed on the site.

Heating/Cooling System

No heating or cooling systems were observed during the site reconnaissance.

HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS**Hazardous Substances and Petroleum Product Containers**

No hazardous substances or petroleum products were observed in association with current uses of the site. No hazardous substance or petroleum product containers were observed on the site. A 55-gallon plastic drum that appeared to be used for water was observed on the site.

Storage Tanks

No evidence of underground storage tanks (USTs) such as fill ports, vent pipes, and dispensers was observed on the site. No evidence of aboveground storage tanks (ASTs) was observed on the site.

Indications of PCBs

No evidence of electrical transformers or other equipment potentially containing polychlorinated biphenyls (PCBs) was observed on the site.

OTHER CONDITIONS OF POTENTIAL CONCERN**Indications of Solid Waste Disposal**

There was no evidence of the burial of solid waste or other materials on the site. An area containing broken asphalt and broken concrete was located in the northwest portion of the site. Scattered railroad ballast was observed on much of the site.

Odors

A slight odor of creosote was observed on the site. Railroad tracks adjoined the site to the south; creosote was commonly used to treat railroad ties.

Pools of Liquid

Two pools of standing liquid were observed on the site. These were likely rainwater from the previous days' rain.

Pits, Ponds, or Lagoons

No pits, ponds, or lagoons were observed on the site.

Wastewater and Other Liquid Discharges

No indications of wastewater or other liquid discharges were observed on the site.

Drains and Sumps

No drains or sumps were observed on the site.

Drywells

No drywells were observed on the site.

Wells

No wells were observed on the site.

Stained Soil or Pavement

Slightly stained or darker soil was observed in the excavation in the northeast portion of the site and in the areas of gardening activity.

Stains or Corrosion Inside Buildings

No buildings were located on the site.

Stressed Vegetation

Unnaturally stressed vegetation was not observed on the site.

GENERAL DESCRIPTION OF ADJOINING PROPERTIES

Properties adjoining the site consisted of railroad tracks, commercial businesses, residences, and vacant land. A brief description of properties adjoining the site, including evidence of past uses, is provided below. Photographs are included in Appendix B.

North

Adjoining the site to the north was a vacant property enclosed by a chain-link fence. North of the vacant property was a residence.

East

Adjoining the site to the east was North 9th Avenue. The following properties were located east of the road, northeast, east, and southeast of the site, from north to south: a vacant property enclosed by a block wall; Natural Building Materials; an unidentified business; Open Studios; and BICAS Underground Community Center.

South

Union Pacific Railroad tracks were located south, southeast, and southwest of the site. South of the railroad tracks, south and southwest of the site, was a vacant building.

West

Adjoining the site to the west was a wash and a railroad bridge. North of the wash, northwest of the site, was an abandoned metal building and metal debris.

3 RECORDS REVIEW – ENVIRONMENTAL RECORD SOURCES

INTRODUCTION

Allands was retained by SCS to perform a database search of the standard and additional federal, state, tribal, and local environmental record sources for the site, as identified in the table below. The database search was conducted by Allands on June 15, 2008. A copy of the Allands *Regulatory Database Search Report* is included in Appendix C.

The following table lists the reviewed environmental databases, the database compilation dates, the distances searched by Allands from the site boundary, and whether the site or a facility interpreted to be adjacent to the site was identified on each database.

Table 1. Regulatory Database Search Summary

Database	Date of Database	Approximate Minimum Search Distance (miles)	Reported Facilities	Site	Adjoining Site
Standard Federal ASTM Environmental Record Sources					
NPL (National Priorities List) / Proposed NPL / DOD (Department of Defense Sites)	05/08	1.0	0	No	No
Delisted National Priorities List	05/08	0.5	0	No	No
CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System)/No Further Remedial Action Planned (NFRAP)	04/08	0.5	6	No	No
RCRA (Resource Conservation and Recovery Act) Large and Small Quantity Generators	10/07	0.125	1	No	No
RCRA – CORRACTS TSDFs (Corrective Action Treatment, Storage, and Disposal Facilities)	10/07	1.0	0	No	No
RCRA – Non-CORRACTS TSDFs	10/07	0.5	0	No	No
ERNS (Emergency Response Notification System)	10/07	0.125	0	No	No
Standard State and Tribal ASTM Environmental Record Sources					
WQARF (Water Quality Assurance Revolving Fund) Areas	05/08	1.0	1	No	No
Superfund Program List (replaces ACIDS)	08/04	0.5	1	No	No
Solid Waste Facilities/Landfill Sites - Operating and Closed	05/99 & 5/04	0.5	0	No	No
Control Registries	07/07	Site and adjoining	0	No	No
Brownfields / Voluntary Remediation Program	07/07	0.5	1	No	No
Registered USTs (Underground Storage Tanks)	05/08	0.125	9	No	Yes
LUSTs (Leaking Underground Storage Tanks) Incident Reports	05/08	0.5	16	No	No
Additional Environmental Record Sources					
RCRA Compliance Facilities	07/07	0.125	0	No	No
Hazardous Materials Incidents Emergency Response Logbook	1984-06/01	0.125	0	No	No

Table 1. Regulatory Database Search Summary

Database	Date of Database	Approximate Minimum Search Distance (miles)	Reported Facilities	Site	Adjoining Site
Standard Federal ASTM Environmental Record Sources					
ADEQ Drywell Registration Database	05/08	0.125	0	No	No
Environmental Permits	07/07	Site	0	No	No
Arizona Department of Water Resources Well Registration Database	09/07	Site and adjoining	26	No	No

ENVIRONMENTAL RECORD SOURCE FINDINGS

Based on the groundwater flow direction in relation to the subject site and the location and status of the environmental database listing, only the database listings deemed to be potential RECs are discussed below in this section. The hydrogeologic flow direction (“gradient direction”) with respect to the site is identified for each database listing using the following descriptors:

Upgradient – Based on the estimated direction of groundwater flow, the site may be in the path of groundwater flowing from the location of the database listing. If this groundwater is impacted by contaminants, there is a potential for groundwater beneath the site to be impacted.

Downgradient – Based on the estimated direction of groundwater flow, the site is not in the path of groundwater flowing from the location of the database listing. If this groundwater is impacted by contaminants, it is not likely that groundwater beneath the site would be impacted.

Crossgradient – Based on the estimated direction of groundwater flow, the site is not in the path of groundwater flowing from the location of the database listing. If this groundwater is impacted by contaminants, it is not likely that groundwater beneath the site would be impacted. However, if the database listing is on a property that adjoins the site, there could potentially be impacts to groundwater beneath the site depending on the location of the impacted area.

The direction of regional groundwater flow in the site area is generally toward the northeast, as discussed in Section 4 under *Summary of Regional Hydrogeology*. In addition there is a perched groundwater zone in the downtown Tucson area; in the site area, the direction of flow is apparently to the northwest.

Standard Federal ASTM Environmental Record Sources

Federal CERCLIS/NFRAP List

Explanation. The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) is a comprehensive database and management system, compiled and maintained by the EPA, which inventories and tracks suspected or actual hazardous substances sites under the Superfund program. These sites were reported to the EPA by states,

municipalities, private companies, and private persons. Actions that may be taken under CERCLA include a preliminary assessment, remedial investigation, feasibility study, and remedial cleanup. Inclusion of a specific site or area in the CERCLIS database does not represent a determination of any party's liability, nor does it represent a finding that any response action is necessary.

As of February 1995, CERCLA sites designated "No Further Remedial Action Planned" (NFRAP) were removed from CERCLIS. As a result of an initial investigation, NFRAP sites were those that had no contamination found, contamination was removed quickly without the need for the site to be placed on the NPL, the contamination was not serious enough to require Federal Superfund action or NPL consideration, or the site was referred to another regulatory program. The NFRAP sites were removed from the CERCLIS database and information was archived as historical records in order to document that the evaluations took place and to avoid the possibility of duplication. The CERCLIS and NFRAP databases are searched for a distance of one-half mile from the subject site.

Search Results. The site and adjoining properties were not identified on the CERCLIS/NFRAP list. Six CERCLIS/NFRAP facilities were identified within 0.5 mile of the site.

Table 2. Federal CERCLIS/NFRAP List Results

Facility	Address	NFRAP	Distance/Gradient Direction	Environmental Concern (Y/N)
United Fire Company	Approx. 3 of 300 E 7 th St.	X	0.4 mi SE / Up to Crossgradient	N
Olivers Cleaners / 7 th St & Arizona Ave.	300 East 7 th St.		0.4 mi SE / Up to Crossgradient	Y
Pioneer Paint & Varnish Co	438 W Congress St.	X	0.4 mi SW / Up to Crossgradient	N
Downtown Auto Center	330 N 5 th Ave / Approx S of 300 E 7 th St.		0.5 mi SE / Up to Crossgradient	Y
Universal Waste Control	330 N 5 th Ave	X	0.5 mi SE / Up to Crossgradient	N
United Fire Auto	335 N 4 th Ave	X	0.5 mi SE / Up to Crossgradient	N

The six listed CERCLIS sites were located potentially upgradient of the site. Four of the listed CERCLIS sites were designated NFRAP, which indicates that CERCLA investigations by the EPA did not identify significant environmental problems at the facilities, identified concerns have been adequately addressed under CERCLA, or the case has been transferred to another program. The Oliver's Cleaners/7th Street & Arizona Avenue site is discussed later in this section under *Arizona WQARF Areas*. The Downtown Auto Center is located in the same area as the 7th Street and Arizona Avenue WQARF Registry site discussed later in this section.

Federal RCRA Database – Generators

Explanation. The Resource Conservation and Recovery Act (RCRA) database is a list of facilities that have obtained an EPA identification number due to their involvement in the generation, transportation, treatment, storage, or disposal of hazardous waste. The database is

compiled and maintained by the EPA. RCRA generators are separated into the following categories:

- Large Quantity Generators (LQG) - produce at least 1,000 kilograms (kg) of hazardous waste per month;
- Small Quantity Generators (SQG) - produce more than 100 but less than 1,000 kg of hazardous waste per month;
- Conditionally Exempt Small Quantity Generators (CEG) - produce less than 100 kg of hazardous waste per month;
- Deactivated generator (DAG); and
- Deactivated transporter of hazardous waste (DAT).

These generator categories are further defined in the regulations regarding the types of hazardous wastes generated, and also the lengths of time the hazardous wastes are allowed to be stored at the facility. RCRA Generator listings do not necessarily indicate a REC. These types of listings are generally indicative of the potential for an environmental concern. This database is searched for the site and adjoining properties.

Search Results. The site and adjoining properties were not identified on the RCRA Database list. One RCRA database listing was identified within 0.125 mile of the site.

Table 3. RCRA Facilities Results

Facility	Address	Status	Distance/Gradient Direction	Environmental Concern (Y/N)
Milex Auto Service Center	600 N Stone Ave	N	<0.125 mi NE / Cross to Downgradient	N

Codes: N Not a generator verified or inactive generator

The Milex Auto Service Center located northeast of the site was listed as not a generator or as an inactive generator. This facility appears to be hydrogeologically downgradient of the site. Based on the status and location of this facility, it is not likely to be a potential REC for the site.

Standard State and Tribal ASTM Environmental Record Sources

Arizona WQARF Areas

Explanation. The Arizona Water Quality Assurance Revolving Fund (WQARF) program is the State version of the Federal Superfund program. The WQARF program was established to remedy sites for which there is an actual or potential threat of impact to waters of the State by hazardous substances.

Search Results. The site and adjoining properties were not identified within a WQARF Registry area. One WQARF Registry area was identified within a 1.0-mile search distance from the subject site.

Table 4. Arizona WQARF Areas Results

WQARF Registry site	Distance/Gradient Direction	Environmental Concern (Y/N)
Oliver's Cleaners 7th Street & Arizona Avenue	0.1 mi. SE / Up to Crossgradient	Y

The 7th Street and Arizona Avenue WQARF Registry site is located approximately 0.1 mile east and southeast of the subject site, east of the railroad corridor. Perched groundwater at this WQARF site has been impacted by the dry cleaning chemical tetrachloroethene (PCE) and trichloroethene (TCE). The most recent project summaries and maps showing the estimated boundary of the groundwater contamination plume for the WQARF study area were obtained from the ADEQ website and are included in Appendix D.

The ADEQ summary for this WQARF area states that the direction of regional groundwater flow in this area is toward the northeast, but that the regional aquifer has not been impacted by the contamination. The WQARF area map shows the plume of groundwater contamination in the perched aquifer extending in a northwest-southeast direction, which indicates a northwesterly flow direction in the perched aquifer. The site is not within the groundwater plume indicated on the map. Although the site does not appear to be currently impacted by this WQARF site, based on the proximity of the groundwater contamination plume to the site and the direction of groundwater flow in the perched aquifer, future environmental impacts to groundwater beneath the site could be possible.

Arizona Superfund Program List

Explanation. The Arizona Superfund Program List (SPL) replaces the Arizona CERCLIS Information and Data System (ACIDS) list. This list is maintained by ADEQ, and consists of sites and potential sites subject to investigation under the ADEQ Superfund Programs Section (SPS). This database is searched for a distance of one-half mile from the subject site.

Search Results. The site and adjoining properties were not identified on the Arizona Superfund Program List. One facility was identified within the Arizona Superfund Program list search distance.

Table 5. Arizona Superfund Facilities Results

Facility	Program	Status	Distance/Gradient Direction	Environmental Concern (Y/N)
Oliver's Cleaners / 7 th St and Arizona Ave	WQARF	Pending PI on Registry	0.2 mi SE / Up to Crossgradient	Y

Oliver's Cleaners/7th Street and Arizona Avenue is located 0.2 mile southeast of the site. A pending Preliminary Investigation was listed as January 1998. The Preliminary Investigation, dated April 2000, resulted in the area being placed on the WQARF Registry. This WQARF and SPL site is discussed above in this section under *Arizona WQARF Areas*.

Brownfields / Voluntary Cleanup Program

Explanation. ADEQ has developed the AZURITE Database, which includes facilities in the ADEQ Voluntary Remediation Program and the ADEQ Brownfields Tracking System. The database was searched for sites located within a 0.5-mile search distance from the site.

Search Results. No Brownfields or Voluntary Cleanup Programs were identified on the site. One such project area was identified within 0.5 mile of the site.

Table 6. Brownfields / Voluntary Cleanup Program Results

Site Name	Date	Status	Distance/Gradient Direction	Environmental Concern (Y/N)
UPRR Passenger Depot	07/18/02	Closed	0.4 mi SE / Up to Crossgradient	Y

The Union Pacific Railroad (UPRR) Passenger Depot, 400 East Toole Avenue, is located southeast of the site. The work was started in February 2002 and ended in July 2002; the status was listed as closed. According to Mr. David Barraza of COT ES, the COT is responsible for the property from the ground surface to a depth of 50 feet below ground surface (bgs) and UPRR is responsible for the subsurface below 50 feet bgs due to the known impacts to groundwater in the railroad corridor. Mr. Barraza stated that no known contamination was identified in soils above 50 feet bgs at the property during the renovation work. ADWR on-line registered well records indicated that Union Pacific Railroad drilled two wells in 1999 and two wells in 2002 at the Passenger Depot, which is assumed to be the same location as the Brownfields facility discussed above. Petroleum odors were first detected at depths ranging from 58 to 70 feet bgs, and stained soil (black to dark gray) was observed in two well borings at depths of 73 to 73.5 feet bgs and at 71.5 and 72.5 feet bgs. Estimated depths to water in these four wells ranged from 70.5 to 80 feet bgs.

The above information indicates that there is soil contamination at this property and that the contamination extends to groundwater. The UPRR has been performing investigations of contamination along the railroad corridor. Previous discussions with Mr. Douglas Shenk, Senior Project Manager, and Mr. Jeff Drzewiecki, Senior Project Geologist, for Environmental Resources Management (ERM), the environmental consultant for UPRR, indicated that groundwater monitoring of two wells located southeast of the site have not shown evidence of contamination. However, based on the direction of perched groundwater flow in the site area, there is a potential for future environmental impacts to groundwater beneath the site.

Arizona Registered USTs

Explanation. ADEQ maintains a list of registered USTs in Arizona that contain or have contained regulated substances, primarily petroleum products. The list includes information, where available, regarding the location, owner, number of registered tanks, contents, capacity, age, tank and piping construction material, and type of piping system.

Search Results. No USTs were identified on the site. Nine facilities located within a 0.125-mile search distance from the site were listed as having registered USTs.

Table 7. Arizona Registered USTs Database Results

Facility	Address	# of Tanks	Status	Distance/Gradient Direction	Environmental Concern (Y/N)
Tucson Freight Dock	526 N 9 th Ave	2	Removal	E Adjoining/ Up to Crossgradient	N
Kv 33 Corp	56 E 5 th St	4	Removal	<0.125 mi NE / Cross to Downgradient	N
Vacant Property	48 E 6 th St	1	Removal	<0.125 mi E / Up to Crossgradient	N
Milex	600 N Stone Ave	1	Removal	<0.125 mi NE / Cross to Downgradient	N
Purcell Tire Co	601 N Stone Ave	4	Removal	<0.125 mi NE / Cross to Downgradient	N
Arizona Truck outfitters	649 N Stone Ave	4	Removal	<0.125 mi NE / Cross to Downgradient	N
Arizona Auto Refrigeration	549 N Stone Ave	4	Removal	<0.125 mi E / Up to Crossgradient	N
Tanno's Auto Detailing	503 N Stone Ave	3	Removal	<0.125 mi E / Up to Crossgradient	N
TEPCO – Downtown Office Fuel Tank	220 W 6 th St	1	Removal	<0.125 mi SW / Up to Crossgradient	N

One of the nine facilities listed above was located on a property that adjoins the site to the east. Five of the nine facilities are located potentially hydrogeologically upgradient of the site. The USTs have been removed at each of the nine facilities and none of the facilities were identified on the LUST list; therefore, it is not anticipated that the facilities are a REC for the site.

Arizona LUSTs

Explanation. ADEQ maintains a list of LUSTs in Arizona that have had a reported release of regulated substances, primarily petroleum products. The list identifies the owner, location, date of release, and date of closure, if applicable. The database is searched for a distance of 0.5 mile from the site.

Search Results. The site and adjoining properties were not listed on the LUST list. Sixteen LUST facilities were identified within 0.5 mile from the site.

Table 8. Arizona LUSTs Database Results

Facility	Address	Date Closed	P Code	Distance/Gradient Direction	Environmental Concern (Y/N)
Adot Equipment Services-Possess	35 E Toole Ave	OPEN	2	0.2 mi SE / Up to Crossgradient	Y
Wakefield Investments	107 E 6 th St	1/27/1989	5R1	0.2 mi SE / Up to Crossgradient	N
Tucson Tire/Texaco/Cherie Martin	846 N Stone Ave	4/7/1999	5G1	0.3 mi NE / Down to Crossgradient	N
Yellow Cab Company	411 N 5 th Ave	OPEN	1F	0.3 mi SE / Up to Crossgradient	Y
Firestone Mastercare Store	445 N 6 th Ave	3/28/2002	5G1	0.3 mi SE / Up to Crossgradient	N
Unocal # 1869	1100 N Stone Ave	6/30/1998	5R1	0.4 mi N / Downgradient	N

Table 8. Arizona LUSTs Database Results

Facility	Address	Date Closed	P Code	Distance/Gradient Direction	Environmental Concern (Y/N)
Arizona Sash & Door	657 W Saint Marys Rd	5/12/1999	5R1	0.4 mi NW / Cross to Downgradient	N
Joe's Service	695 W Saint Marys Rd	5/12/1999	5G1	0.4 mi NW / Cross to Downgradient	N
Charlie's Autos Warehouse	331 E 7 th St	2/16/1994	6	0.4 mi SE / Up to Crossgradient	N
Tanner Motor Tours	139 N Scott	8/8/1997	5R1	0.4 mi SE / Up to Crossgradient	N
Bank One Arizona	2 E Congress St	6/11/1997	5R1	0.4 mi SE / Up to Crossgradient	N
Chevron # 9-4234	203 E Speedway	7/26/2005	5R1	0.5 mi NE / Cross to Downgradient	N
Medina's Service Garage	1047 N Main Ave	12/28/2000	5R1	0.5 mi NW / Cross to Downgradient	N
Oliver's Cleaners	300 E 7 th St	2/26/1993	6	0.5 mi SE / Up to Crossgradient	Y
Rich Rodgers South Inc Property	151 E Broadway	9/30/2003	5R1	0.5 mi SE / Up to Crossgradient	N
Pioneer Paint & Varnish Co - Former	438 W Congress St	OPEN	1D	0.5 mi SW / Up to Crossgradient	N

Priority (P) Codes:

- 1D Defined soil & GW requires remediation (levels exceed standards for one or more media)
- 1F Free product present on GW and/or SW
- 2 Undefined soil contamination (default for newly reported LUSTs)
- 5G1 Closed soil/GW levels meet RBCA Tier 1
- 5R1 Closed soil levels meet RBCA
- 6 Incident/tank was determined not to be UST jurisdiction and referred to another program

Based on the estimated direction of regional and perched groundwater flow in the site area, 10 of the 16 LUST facilities listed above could potentially be hydrogeologically upgradient of the site. Of these 10 facilities, three had open LUST cases with ADEQ and two were determined to be outside the UST jurisdiction and were referred to other programs; the three open LUST cases are discussed below.

- ADOT Equipment Services, 35 East Toole Avenue, was listed as having an open LUST case with undefined soil or groundwater contamination. In 2002, SCS reviewed previous investigation reports as part of a Limited Phase II ESA for this property; based on the information obtained, soil contaminated by petroleum hydrocarbons extended to the perched groundwater aquifer at 65 feet below grade as a result of releases from UST systems and possibly other sources. Groundwater beneath the property was significantly contaminated by diesel fuel. Under an agreement with ADEQ, the COT (current owner of the property) installed a soil vapor extraction system to begin treatment of contamination in the vadose zone in 2005. However, because groundwater contamination along the railroad corridor is already being addressed by other projects, the COT was not required to conduct groundwater treatment.
- The Yellow Cab Company, 411 North 5th Avenue, was listed as having an open LUST case with free product present on groundwater and/or surface water. This facility is

included within the 7th Street and Arizona Avenue WQARF Registry site area discussed in this section under *Arizona WQARF Areas*.

- The former Pioneer Paint & Varnish Company (Pioneer Paint) was listed as having an open LUST case with defined soil and groundwater requiring remediation. Based on investigations recently performed by SCS for the COT ES at this facility, the extent of contamination of the perched aquifer may be limited to the Pioneer Paint property. In addition, trichloroethene from an unknown source has been detected in the regional aquifer at the Pioneer Paint property, currently below Aquifer Water Quality Standards (AWQS), and at other wells in the area.

Of the seven remaining potentially upgradient facilities, four were listed as closed cases with soil contaminant levels that met the Risk Based Corrective Action (RBCA) guidelines and one was listed as a closed case with soil and groundwater contaminant levels that met RBCA Tier I guidelines. Two of the remaining sites, Charlie's Autos Warehouse and Oliver's Cleaners, were determined not to be in the UST jurisdiction and were referred to another program.

As discussed in this section and Section 4, the perched groundwater aquifer under portions of downtown Tucson and the Aviation Parkway/railroad corridor has been contaminated in several locations primarily by diesel fuel, with lesser amounts of gasoline and volatile organic compounds (VOCs). The regional aquifer has also been impacted in some places (Dulaney 1992). Therefore, because of the proximity of the site to known groundwater contamination along the railroad corridor and as listed above, groundwater beneath the site could be impacted or potentially impacted by migration of contaminants.

Additional Environmental Record Sources

Arizona Department of Water Resources Well Registration Database

Explanation. The Arizona Department of Water Resources (ADWR) Well Registration Database contains information provided to the ADWR Operations Division by well drillers and/or owners of wells.

Search Results. Twenty-six registered well listings were identified in the Allands report. SCS also reviewed the ADWR Fortis on-line registered well database for the well listings. Groundwater levels were provided for six of the well listings and ranged from 54 to 150 feet bgs. None of the listings appeared to be located on the site; however, location information was missing for seven of the listings. Water uses for ten of the 26 listings were listed as test, seven were listed as monitoring, five were listed as none, three had no water use listed, and one was listed as industrial.

4 RECORDS REVIEW – PHYSICAL SETTING SOURCES

STANDARD PHYSICAL SETTING SOURCE – USGS 7.5-MINUTE TOPOGRAPHIC MAP

The United States Geological Survey (USGS) 7.5-minute topographic map containing the site, *Tucson, Arizona*, was obtained and reviewed to evaluate the topographic characteristics of the site area. The reviewed maps were dated 1957 (photorevised in 1971 and 1975), 1983, and 1992. Also reviewed was a topographic layer on the PCDOT MapGuide website, which showed elevation contours at 2-foot intervals for the site area.

The maps showed the elevation on the site as ranging from approximately 2,362 to 2,365 feet above mean sea level. The site gradient was shown as relatively level. The topography of the site area slopes toward the west-northwest at a gradient of approximately 40 feet per half mile. The Santa Cruz River is located approximately one-half mile west of the site. A copy of a topographic map of the site area is provided in the Allands *Regulatory Database Search Report* in Appendix C.

OTHER PHYSICAL SETTING SOURCES

Summary of Local Geology

The site is within the Basin and Range Physiographic Province, which is characterized by broad alluvial-filled basins bounded by steep, fault-block mountains. The Tucson Basin is a structural depression within the Basin and Range Physiographic Province. The Tucson Basin fill deposits are characterized by three stratigraphic units (from bottom to top): the Pantano Formation, the Tinaja beds, and the Fort Lowell Formation. Overlying the Fort Lowell Formation are younger, well-preserved surficial alluvium terrace deposits.

The Pantano Formation is thousands of feet thick, and consists of conglomerate, sandstone, mudstone, gypsiferous mudstone, volcanic flows and tuffs, landslide debris, and megabreccia lenses. The Tinaja beds are also thousands of feet thick, and the upper, middle, and lower units consist of silty gravel, conglomerate, volcanic flows and tuffs, gypsiferous and anhydritic clayey silt and mudstone, and sand and clayey silt in the central portion of the basin, grading to gravel and sand near the mountains at the edges of the basin. The Fort Lowell Formation is generally 300 to 400 feet thick, and consists of unconsolidated to moderately consolidated sediments grading from silty gravel at the basin margins to a sandy silt and clayey silt in the center of the basin. The surficial alluvium terrace sediments are generally thin (averaging 30 to 70 feet in thickness) and silty, and become younger and lower in relief closer to the Santa Cruz River (Anderson 1987; McKittrick 1988; Murphy and Hedley 1984).

Summary of Regional Hydrogeology

The site is located within the Tucson sub-area of the Upper Santa Cruz Basin area, in the Tucson Active Management Area. The Pantano Formation, Tinaja beds, and Fort Lowell Formation form a single aquifer; however, the primary source of groundwater in the Tucson sub-area is the Fort Lowell Formation. The site is located approximately one-half mile east of the Santa Cruz River.

Depth to groundwater measured in wells shown on the ADWR map (Murphy and Hedley 1984) within approximately one mile of the site ranged from 89 to 142 feet bgs. Regional groundwater flow in the vicinity of the site was shown on the map to be generally toward the northwest. Groundwater flow direction and gradient may be significantly influenced by localized sources of withdrawal and recharge, such as irrigation wells and unlined channels, respectively.

A report by Alan R. Dulaney of ADEQ (1992) listed the depth to the regional groundwater aquifer across the downtown Tucson area as 140 to 170 feet bgs, with shallower depths occurring nearer the Santa Cruz River. The direction of regional groundwater flow in the downtown area was shown to be between the northeast and northwest. According to the ADEQ summary for the 7th Street and Arizona WQARF area (included in Appendix D), the regional groundwater in this area is at a depth of approximately 170 feet and the flow direction is to the northeast.

In addition, a large area of perched groundwater has been identified in the downtown Tucson area and to the south and east at depths ranging from approximately 30 to 80 feet bgs. The thickness of the perched aquifer may range up to 20 feet. The direction of groundwater flow in the perched aquifer is variable, and was estimated as ranging between southwest to northwest, with major flow components to the west and northwest. Information in the ADEQ summary for the 7th Street and Arizona WQARF area indicates that the flow of groundwater in the perched aquifer in the site area is toward the northwest.

The perched groundwater aquifer under portions of downtown Tucson and the Aviation Parkway/railroad corridor has been contaminated in several locations primarily by diesel fuel, with lesser amounts of gasoline and volatile organic compounds, and the regional aquifer has also been impacted in some places (Dulaney 1992). A figure from the 1992 Dulaney report showed the inferred extent of diesel contamination on perched groundwater; the site area was not shown to be within the estimated area of potential contamination.

5 RECORDS REVIEW – HISTORICAL USE INFORMATION

STANDARD HISTORICAL SOURCES

A summary of the standard historical sources and the dates researched is provided in the table below.

Table 9. Standard Historical Source Summary

Dates	Aerial Photos	Sanborn Maps	Topographic Maps	City Directories	Building Records	Land Title Records	Other ¹
Pre-1900		1886, 1889, 1896					1871 ¹
1900-1904		1901					
1905-1909		1909	1909				
1910-1914							
1915-1919		1919		1919			
1920-1924				1924			
1925-1929				1929			
1930-1934							
1935-1939				1935		1939 (earliest title reviewed)	
1940-1944				1940, 1944			
1945-1949		1947, 1949					
1950-1954	1953		1957	1951, 1953, 1954			
1955-1959							
1960-1964	1960			1960			
1965-1969	1967			1965			
1970-1974	1973		1971	1970, 1974			
1975-1979	1979		1975				
1980-1984			1983	1980, 1984			
1985-1989	1988			1985	1981, 1983		
1990-1994	1994		1992	1990			
1995-1999	1998			1995, 1998			
2000-2004	2000, 2002, 2003			2001			
2005-2009	2005, 2006, 2007			2005, 2007			2008 ²
Able to determine date when site was undeveloped:				<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO	

Note: Dates shown without highlighting did not have coverage for the site.

¹ Surveyor General's Office map of the site section

² Limited Soil Assessment report

Aerial Photographs

Historical aerial photographs of the site were reviewed for the period 1953 through 2007 to evaluate past uses of the site and adjoining area. Historical aerial photographs were reviewed at Cooper Aerial Survey Company for the years 1953, 1960, 1967, 1973, 1979, 1988, 1994, and 2000 and on the Pima County MapGuide website for the years 1998, 2002, 2003, 2005, 2006, and 2007. In addition, a 2007 aerial photograph was included in the Allands *Regulatory Database Search Report* in Appendix C. Copies of the 1953 and 1973 historical aerial

photographs are included in Appendix E and the 2005 aerial photograph is used as a base for Figure 2 in Appendix A.

Site

In 1953 and 1960, the site appeared partially cleared and unpaved roads crossed the site. In 1967, the site was cleared and appeared to be enclosed by a fence or wall with several large rectangular objects in the northeast portion of the site. In 1973, several apparent tractor trailers and other rectangular objects were parked or stored throughout the site. In 1979, the site was cleared and did not appear to be enclosed; four apparent truck trailers were visible on the east portion of the site. In 1988, the site was cleared and the soil appeared darker over much of the site than surrounding areas. From 1994 to 2007 the site appeared much the same.

Adjoining Properties

North. In 1953, the area north of the site appeared to contain one structure and three rectangular objects, possibly small structures. In 1960, the western portion of the property was cleared and the three objects were no longer visible. Several rectangular objects were visible in the cleared area west of the structure in 1967 and 1973. In 1979, the structure was no longer visible and two objects were visible in the west portion of the property. The area contained rectangular objects or vehicles in 1988 and 1994. The property was cleared and some vegetation was visible in the east portion of the property in 1998 through 2007.

East. From 1953 through 2007, a road adjoined the site to the east. East of the road from 1960 through 2007 were various structures, parking areas, and vehicles, including tractor trailers. South east of the site were roads and railroad tracks.

In 1953, east of the road, northeast of the site, were two structures. A third structure was visible in 1960. From 1967 through 2007, various structures were visible on the property.

South. From 1953 through 2007, the area south and southwest of the site contained railroad tracks, structures, cleared areas, and vehicles. Four objects were visible in the cleared area along the railroad tracks south of the site.

West. From 1953 through 2007, the area west of the site contained a wash.

In 1953, the area northwest of the site contained a large triangular shaped structure and vehicles in a cleared enclosed area. An additional large structure was visible from 1960 through 1973. In 1979, the roof of the triangular structure was missing and stored materials or debris were visible on the property. In 1988, the triangular structure was no longer visible and four rectangular objects, possibly trailers or storage containers, were visible in that area. In 1994, the angular building and a rectangular shape were visible. The property changed little in the 1998 through 2007 photographs.

Fire Insurance Maps

Historical fire insurance rate maps, such as those published by the Sanborn Map Company, show locations of structures and other features, and uses of buildings for numerous cities in the United

States. Sanborn maps were reviewed for the site area on the City of Phoenix Library online database for the years 1886, 1889, 1896, 1901, 1909, 1919, 1947 (revised from the 1919 map and reprinted in 1948), and 1949 (revised from the 1919 map). There was no coverage for the site or adjoining properties on the 1896 or earlier maps. Copies of the Sanborn Maps are provided in Appendix F.

Site

In 1901, the northernmost portion of the site was not included in the map coverage area. The northern portion of the site was crossed by an arroyo (labeled “generally dry”); no other features were shown on the site, but the site contained the label “adobe shanties.” The 1909 map showed an arroyo (dry wash) crossing through the north portion of the site. Two residences, one of which was labeled as a shanty, were located in the southern portion of the site. The shanty was still present on the 1919 map; the rest of the site was vacant of features except for the arroyo. Addresses shown on the site included 511, 513, and 515 North 9th Avenue. On the 1947 and 1949 maps, no features were shown on the site except for part of the former arroyo.

Adjoining Properties

North. The 1901 map did not provide coverage for the area north of the site. On the 1909 and 1919 maps, residences were located north of the site. On the 1947 and 1949 maps, residences were located north of the east portion of the site and four circular steel crude oil tanks on wood trestles were located north of the west portion of the site.

East. The 1901 map did not provide coverage for the area northeast of the site. In 1901, the area east of the site was occupied by a road and the arroyo; the area east of the road and south of the arroyo was labeled “adobe shanties”. On the 1909 and 1919 maps, east of the site was 9th Avenue; east of the street, northeast, east, and southeast of the site, were residences, the arroyo, and vacant parcels. Ninth Avenue was labeled as impassable for vehicles on the 1919 map. On the 1947 and 1949 maps, east of 9th Avenue and northeast, east, and southeast of the site, were a residence, open air market stalls, a box storage area, beer storage, and Motor Freight warehouse and packing; a vehicle repair area was also located on this property.

South. A railroad adjoined the site to the south on all reviewed maps. The area south of the railroad, south and southwest of the site, was occupied by residences and a vacant lot in 1901 and 1909, residences and a cement warehouse in 1919, and vacant lots and a cement warehouse in 1947 and 1949.

West. The 1901 map did not provide coverage for the areas west or northwest of the site. The area west of the site was occupied by the arroyo on all reviewed maps; the east end of a railroad spur was located north of the arroyo on the 1909 through 1949 maps. The south end of a street that ended at the arroyo was located northwest of the site on the 1909 and later maps; beginning in 1919, this street was labeled Perry Avenue.

West of the street, northwest of the site, was Peoples Feed & Fuel Co. on the 1909 through 1947 maps. Labels on this property during these years included wood yard, wood saw, hay, coal, hay warehouse, coal yards, coal warehouse, oils, office, feed and cement, and gas and oil. On the

1949 map, this property was occupied by Motor Freight Sta., containing a warehouse, wood platform, garage, and office.

USGS 7.5-Minute Topographic Maps

The USGS 7.5-minute topographic map containing the site, *Tucson, Arizona*, was obtained and reviewed. The reviewed maps were dated 1957 (photorevised in 1971 and 1975), 1983, and 1992. The site area was shown as undifferentiated urban area. A railroad was shown along the southern side of the site. A copy of the 1983 topographic map of the site area is provided in the *Allands Regulatory Database Search Report* in Appendix C.

Local Street Directories

City directories identify occupants of listed addresses; later directory listings also identify the first year a particular listing was published. SCS performed a search of city directories at the Pima-Tucson Public Library in approximate five-year intervals for addresses in the vicinity of the site from 1919 to 2007. If a particular directory was not available, the directory with the closest available year was reviewed. The following city directories were reviewed: 1919, 1924, 1929, 1935, 1940, 1944, 1951, 1953, 1954, 1960, 1965, 1970, 1974, 1980, 1984, 1985, 1990, 1995, 1998, 2001, 2005, and 2007.

The site address 515 North 9th Avenue was not listed in the directories reviewed. The property addresses adjoining the site to the south were listed as various residences, produce companies, and businesses.

Information obtained from the reviewed city directories for addresses on properties adjoining or near the site is summarized in the table below.

Table 10. City Directories Results

Direction	Address	Use/Occupant
Northwest	127 W 5 th St	LA Yuma Frght Line (1995, 1990, 1984); Merchant Storage, Western Carloading, (1984); Allstar Roofing, Merchant Shippers, Pioneer Carloading, Stor Dor Freight Sys., Universal Crld & Dst, Universal Freight Sys, Western Frght (1980); All United Roofing, Signal Doors (1974); Ralph's Transfer & Storage (1970 through 1951); North American Van Line (1970, 1965); People's Fuel and Feed (1944 through 1924)
North	519, 521, 525, 527 N 9 th Ave	Various residences (1951 through 1919)
South	120 W 6 th St	Alamo Woodworkers, Chax Press (2001, 1998, 1995)
	130 W 6 th St	Residence (1935, 1929, 1919)
	140 W 6 th St	Romney Produce (1980, 1974, 1970); Tucson Fruit & Produce (1965)

Table 10. City Directories Results

Direction	Address	Use/Occupant
Southeast, East, Northeast	44 W 6 th St	BICAS Bike (2001); Barbea Wllms Co. (2001, 1998); individuals (1998, 1995); Allied Van Lines/Allied Van Lines Agency (1985 through 1965, 1953); Citizens Transfer/Citizens Transfer & Storage (1985 through 1935); A & B Distrib./Archer & Belton Dist. (1953, 1944); Pacific Freight Lines (1944, 1940); ABC Distrib., Pima Novelty & Supply (1940); NL (1929, 1919)
	510 N 9 th Ave	Tooley's Produce (1944)
	518 N 9 th Ave	Residence (1919)
	520 N 9 th Ave	Flam Chen, Tucson Puppet Works (2007); no info (1960); vacant (1954); transient (1944); residences (2007, 1998, 1995, 1951, 1940, 1935, 1924)
	522 N 9 th Ave	No info (1960); residences (1951); Rena Produce (1944); vacant (1944); Tooley Produce (1935); residence (1929); vacant (1924)
	526 N 9 th Ave	Originate/Originator Natural Building Materials (2007, 2005); The Epacenter (2007); Golden Arrow Freight (1990); Citizens Express/Citizens Auto Stage/Citizens Express Lines (1984 through 1951); Pioneer Trlr Rntl (1984); McGee Transfer Co. (1965, 1960)

Building Department Records

An on-line search of Pima County Development Services permits and City of Tucson Development Services Department development activity records did not identify records for the site APN 117-04-1940.

A search for permit records for the site was performed at the COT building permit records department. Files were requested for 515 North 9th Avenue. The file contained a Business License permit dated August 1983 for Tucson Assoc.-Ltd Partnership; the description of the business was for a rental parking lot. An "Address Slip" for Donald and Doris Jones, for the south 33 feet of Lot 5 and Lots 8 and 9 was also on file. The file also included a deed dated 1981.

Property Tax Files

Parcel information, plat maps, and other information were reviewed for the site parcel on the Pima County Assessor website. The site has the APN 117-04-1940 and is owned by the State of Arizona. A Commercial Property Record Card for the site parcel indicated that the site was a vacant lot.

City and County Departments of Transportation and Urban Planning

Aerial photographs (1998, 2002, 2003, 2005, 2006, and 2007), parcel information, plat maps, site topography, sanitary sewer locations, and other information were reviewed for the site parcel on the Pima County Department of Transportation website and the City of Tucson Department of Transportation (COT DOT) and Urban Planning and Design websites. COT zoning on the site parcel and adjoining properties was shown to be I-1 (Light Industrial). According to the COT DOT Map Center website, the Tucson Arroyo crosses through the northern portion of the site.

Owners of properties adjoining the site parcel were shown as the State of Arizona, Dunbar Depot LLC, Branching Roots LLC, Union Pacific Railroad, and Whistle Stop Depot.

The water service provider in the site area was shown as Tucson Water. Pima County sanitary sewer lines were not shown on or adjoining the site parcel. The site was shown within the Tucson Fire District. No landfills were shown on the site. The aerial photographs are discussed at the beginning of this section, under *Aerial Photographs*.

Recorded Land Title Records

A historical chain of title search back to 1939 was performed by Allands. The Historical Chain of Title Search's title plant date is June 8, 2008. The title plant date is the date of the report that reflects the most current data made available by the information sources used at the time the research was performed. A copy of the Allands *Historical Title Report* is provided in Appendix G.

Title to the site parcel (APN 117-04-1940) is currently held by the State of Arizona. The first deed transfer was shown to be from Julia F. Bartlett to Edwin B. Bartlett in 1939. Owners of the site parcel since 1939 have been private individuals and the State of Arizona. The site parcel was acquired by the current owner in 1987. Parcel maps and other information for the site are included in the Allands report.

OTHER HISTORICAL SOURCES

A land survey map by the Surveyor General's Office for the township and range containing the site section indicated the area was surveyed and filed in 1871. No features were shown in the portion of the section containing the site; structures and roads were shown in the south and west portions of the section.

HELPFUL DOCUMENTS

Limited Soils Assessment

The document *Report of Findings: Limited Soils Assessment at 515 North 9th Avenue, Tucson, Arizona 95705* by Engineering and Environmental Consultants, Inc. dated June 13, 2008 was provided to SCS Engineers by COT ES. The following discussion summarizes the report. A copy of the report is provided in Appendix H.

Five soil samples were collected from excavation areas on the eastern portion of the site where stained soils were observed. One soil sample was collected from the northwest portion of the site to be used as a background sample. The samples were analyzed for VOCs, polynuclear aromatic hydrocarbons (PAHs), C₁₀-C₃₂ hydrocarbons, and eight RCRA metals. The results were as follows:

- No VOCs were detected in the samples above laboratory reporting limits.

- Hydrocarbons were detected at low concentrations (less than 354 mg/kg) in four of the samples (UPRR-1, UPRR-2, UPRR-3, and UPRR-5).
- Seven PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, and pyrene) were detected in one sample (UPRR-5) and one PAH (benzo[a]pyrene) was detected in the background sample (UPRR-6). None of the PAHs exceeded the 10^{-5} residential soil remediation level (RSRLs). However, benz[a]anthracene (0.82 mg/kg) and benzo[a]pyrene (0.34 mg/kg) exceeded the 10^{-6} RSRLs in one sample (UPRR-5); the 10^{-6} RSRLs are applicable to properties that are occupied by or are planned for day care or school facilities.
- The metals arsenic, barium, cadmium, chromium, lead, and mercury were detected in most of the samples. Arsenic exceeded the RSRL of 10 mg/kg in three samples (UPRR-1, UPRR-2, and UPRR-3), ranging from 22 to 51 mg/kg; the non-residential soil remediation level (NRSRL) is also 10 mg/kg. Lead exceeded the RSRL of 400 mg/kg in two samples (UPRR-1 and UPRR-3) and the NRSRL of 800 mg/kg in one sample (UPRR-2), with concentrations ranging from 480 to 1400 mg/kg.

6 INTERVIEWS

INTERVIEW WITH OWNER

SCS contacted Ms. Lynn Birkinbine of COT ES to identify a contact with whom to conduct an owner interview. Ms. Birkinbine stated that the COT has an easement on the site and the contact would be Mr. George Parker, Property Manager for the City of Tucson. SCS conducted a telephone interview with Mr. Parker on June 30, 2008. Mr. Parker stated that the site was currently a vacant lot and did not know of past site uses. No changes had been made to the site. Mr. Parker stated no potable water or sewage service was located on the site. Mr. Parker did not know of any hazardous materials stored, treated, or disposed of on the site and was not aware of any spills that had taken place at the site. Mr. Parker stated that fill dirt had been used on the site but did not know the source. He indicated that stained soil was located on the site and it appeared to be extensive based on a Limited Soil Assessment that had recently been performed on the site. He stated that there were no proceedings involving the property. He did not know if hazardous materials had been or were currently stored on the adjoining properties. A copy of the owner questionnaire is provided in Appendix I.

INTERVIEW WITH SITE MANAGER

There were no managers of the site other than discussed above under the site owner section.

INTERVIEW WITH OCCUPANTS

There were no occupants of the site other than discussed above under the site owner section.

ADDITIONAL INTERVIEWS

SCS conducted a telephone interview with Ms. Pearlie Purdy on June 19, 2008. Ms. Purdy lived at 521 North 9th Avenue, adjoining the eastern portion of the site to the north, from approximately 1940 to 1946. Ms. Purdy stated that at that time, no structures were located on the site, only small bushes. The property west of her apartment (adjoining the western portion of the site to the north) formerly contained one, possibly two, large aboveground petroleum storage tanks. Ms. Purdy stated that during the period she lived at that address the petroleum storage tanks caught fire more than once. According to Ms. Purdy, the property north of her residence was also occupied by apartments, the property across the street from the site to the east was occupied by Tooley's Produce, the property southwest of the site contained a warehouse, and the property northeast of her residence contained a house.

INTERVIEWS WITH STATE AND/OR LOCAL GOVERNMENT OFFICIALS

Fire Department

SCS contacted Ms. Rachel Duarte of the City of Tucson Fire Department for a search of UST records for the site address 515 North 9th Avenue. Ms. Duarte stated in a fax dated June 11, 2008 that there were no records for the site address.

SCS also contacted Ms. Nicki Singleton of the City of Tucson Fire Department for a search of environmental responses for the site address. In a letter dated June 12, 2008, Ms. Singleton stated that there were no records for the site address.

7 USER PROVIDED INFORMATION

SCS conducted a telephone interview on June 19, 2008 with Ms. Lynne Birkinbine, Environmental Manager for the COT ES. Ms. Birkinbine stated that soil sampling performed at the site was prompted by a member of the COT Real Estate Department who had noticed very dark stained soil in excavations on the site. The excavations were a result of neighborhood residents starting a community garden on the site. The *Limited Soils Assessment* is discussed in Section 5 under *Helpful Documents*. A user questionnaire was also completed on June 23, 2008 by Ms. Birkinbine. A copy of the user questionnaire is included in Appendix J. The information included on the questionnaire is discussed below in this section.

TITLE RECORDS

Historical title information was obtained by SCS from Allands, as discussed in Section 5 under *Recorded Land Title Records*. The Allands *Historical Title Report* is included in Appendix G.

ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS (AULS)

Ms. Birkinbine was not aware of environmental cleanup liens or activity and land use limitations (AULs) for the site.

A search of environmental liens, deed restrictions such as Voluntary Environmental Mitigation Use Restrictions (VEMURs) or Declaration of Environmental Use Restrictions (DEURs), and Arizona Department of Environmental Quality (ADEQ) AZURITE tracking system for the site was performed by Allands at the subject county recorder's office. No VEMURs, DEURs, environmental liens, brownfields, institutional controls, engineering controls, or AULs were found for the site. This information is included in the Allands *Regulatory Database Search Report* included in Appendix C and the Allands *Historical Title Report* included in Appendix G.

KNOWLEDGE OR EXPERIENCE REGARDING THE SITE

Ms. Birkinbine stated that the City of Tucson has an easement on the site. COT ES conducted a limited assessment of stained soil that was identified during excavation and gardening activities on the site. Benzo[a]anthracene, benzo[a]pyrene, lead, and arsenic were detected above regulatory cleanup levels in some of the soil samples collected from the site. Ms. Birkinbine was not aware of commonly known or reasonably ascertainable information about the site with regard to past uses, specific chemicals present or once present on the site, spills or chemical releases, and environmental cleanups on the site. Ms. Birkinbine stated the site is located in the vicinity of a railroad and railroad use areas.

VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Ms. Birkinbine stated that it is unknown whether the purchase price being paid for this property reasonably reflects the fair market value of the property.

OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The current owner, property manager, and occupant of the site parcel are listed below.

- **Owner:** State of Arizona
- **Property Manager:** COT has an easement on the site
- **Occupants:** None

REASON FOR PERFORMING PHASE I ESA

This assessment was performed for COT ES in order to evaluate potential environmental concerns on the site.

OTHER

The COT ES provided SCS with a copy of a *Limited Soils Assessment* report that is discussed in Section 5 under *Helpful Documents*.

8 FINDINGS AND OPINIONS

SCOPE OF WORK

COT ES retained SCS to perform a Phase I ESA for a 0.43-acre vacant parcel located at 515 North 9th Avenue in Tucson, Arizona. The APN for the site is 117-04-1940. The ESA consisted of a site reconnaissance; interviews; review of environmental, historical, and physical records pertaining to activities on and adjacent to the site; and interpretation and reporting of findings.

CURRENT CONDITIONS

At the time of the site reconnaissance, the east portion of the site contained garden areas, a wood ramada, a mud and straw oven, wood benches, composting bins, and a 55-gallon drum that appeared to be used for water. An excavation was located in the northeast portion of the site. A subsurface culvert to convey stormwater for the Tucson Arroyo is located on the northern portion of the site; the COT has an easement on the site for this drainage.

HISTORICAL REVIEW

Based on the historical information reviewed, the site contained residences by 1901 through at least 1919. An arroyo crossed the northern portion of the site prior to 1901 until at least 1919; the arroyo was apparently channeled through the site via a subsurface culvert sometime between 1919 and 1947. Information regarding site uses was not found for the 1920s and 1930s. By the 1940s until at least 1960, the site was vacant. From approximately 1967 through the late 1970s, the site was used for storage of tractor trailers and possibly other materials. The site may have been used as a rental parking lot in the early 1980s. From approximately 1988 to the present, the site was vacant.

Recently a community garden was being developed on the site by neighbors; however, stained soil was discovered during excavation work on the site and a limited soil assessment was performed in 2008 that identified concentrations of PAHs, lead, and mercury that exceeded regulatory cleanup levels, as follows:

- None of the PAHs exceeded the 10^{-5} RSRLs. However, benz[a]anthracene (0.82 mg/kg) and benzo[a]pyrene (0.34 mg/kg) exceeded the 10^{-6} RSRLs in one sample (UPRR-5); the 10^{-6} RSRLs are applicable to properties that are occupied by or are planned for day care or school facilities.
- Arsenic exceeded the RSRL of 10 mg/kg in three samples (UPRR-1, UPRR-2, and UPRR-3), ranging from 22 to 51 mg/kg; the NRSRL is also 10 mg/kg.
- Lead exceeded the RSRL of 400 mg/kg in two samples (UPRR-1 and UPRR-3) and the NRSRL of 800 mg/kg in one sample (UPRR-2), with concentrations ranging from 480 to 1,400 mg/kg.

ADJOINING PROPERTIES

Properties adjoining the site are currently or have historically consisted of a fuel and feed company; freight, transfer, and storage companies; a roofing company; a door company; a puppet company; art companies; produce distributors; an open air market; a building materials company; a trailer rental company; a woodworking company; a press; a cement warehouse; residences; and railroad tracks. The arroyo that crosses the site extends onto properties east and west of the site. Aboveground petroleum storage tanks were formerly located on the property adjoining the western portion of the site to the north. According to a former resident of the property adjoining the eastern portion of the site to the north, the petroleum storage tanks caught fire at least once during the time that she lived there (between 1940 and 1946).

REGULATORY REVIEW

The site was not identified in environmental database listings. Environmental regulatory database listings identified in the vicinity of the site included six CERCLIS sites, one RCRA generator listing, one WQARF site, one Superfund Programs List site, one Brownfields/Voluntary Remediation Program site, nine UST facilities, 16 LUST facilities, and 26 registered wells. The following identified environmental regulatory database listings may be considered potential RECs for the site:

- The UPRR Passenger Depot Brownfields/Voluntary Cleanup Program and ADOT Equipment Services LUST site are located along the railroad corridor, which has known groundwater and soil contamination in several locations, primarily by diesel fuel, with lesser amounts of gasoline and VOCs; the UPRR has been performing investigations of contamination along the railroad corridor. The UPRR Passenger Depot facility has known soil contamination down to the level of groundwater. The ADOT Equipment Services LUST site has soil contaminated by petroleum hydrocarbons and the perched groundwater aquifer beneath the property is contaminated by diesel fuel. A soil vapor extraction system was used to treat contamination in the vadose zone in 2005.
- The Yellow Cab Company was listed as having an open LUST case with free product present on groundwater and/or surface water. This facility is included within the 7th Street and Arizona Avenue WQARF Registry site area discussed below.
- Olivers Cleaners/7th Street and Arizona Avenue CERCLIS site and Superfund Programs List site, the Downtown Auto Center CERCLIS site, and the Yellow Cab Company LUST site are located within the 7th Street and Arizona Avenue WQARF Registry site area. Groundwater contamination in the perched aquifer associated with the WQARF site is located approximately 0.1 mile east and southeast of the subject site. Perched groundwater at this WQARF site has been impacted by PCE and TCE. The subject site is not currently located within the groundwater plume; however, based on the proximity of the groundwater contamination plume to the site and the direction of groundwater flow in the perched aquifer, future environmental impacts to groundwater beneath the site could be possible.

9 CONCLUSIONS AND RECOMMENDATIONS

RECOGNIZED ENVIRONMENTAL CONDITIONS

SCS has performed a Phase I ESA in conformance with the scope and limitations of the ASTM Practice E 1527-05 and COT specifications for a 0.43-acre vacant parcel located at 515 North 9th Avenue in Tucson, Arizona. Any exceptions to, or deletions from, this practice are described in Section 10 of this report. This assessment has revealed evidence of the following potential RECs in connection with the site.

- A limited soil assessment report identified concentrations of PAHs and metals that exceeded soil cleanup levels in soil samples collected on the site: benzo[a]anthracene and benzo[a]pyrene exceeded the 10^{-6} RSRL in one sample; lead exceeded the RSRL in two samples and the NRSRL in one sample; and arsenic exceeded the RSRL and NRSRL in three samples.
- A railroad adjoins the site to the south and scattered railroad ballast was observed on the site. Potential contaminants that may be associated with railroad properties are arsenic, lead, and other metals; petroleum hydrocarbons; PAHs; and PCBs.
- Aboveground petroleum storage tanks were historically located on the property that adjoins the western portion of the site to the north; these tanks reportedly burned at least once in the 1940s according to a former residence of a property adjoining the site. It is possible that petroleum hydrocarbons and associated chemicals released by the fires could have flowed onto the site.
- Groundwater contamination associated with various releases has been previously identified along the railroad corridor and in the 7th Street and Arizona Avenue WQARF Registry area. Although the site does not appear to be within the identified boundaries of known groundwater contamination, future environmental impacts to groundwater beneath the site could be possible.

RECOMMENDATIONS

Based on the findings of this Phase I ESA for the site, SCS recommends the following:

- Based on the results of the limited soil assessment previously performed on the site in 2008, additional soil sampling should be performed to define the lateral and/or vertical extent of the identified contamination.
- In addition, surface soil sampling should be performed adjacent to the areas where railroad ballast is located on the site or via a sampling grid to determine the extent of potential contamination from activities of the adjacent railroad. Sample analyses should include arsenic, lead, and other metals; petroleum hydrocarbons; PAHs; and PCBs.

- Surface soil sampling should also be performed on the northwest portion of the site to assess any residual contamination that may be present as a result of the former petroleum storage tank fires and potential releases. Samples should be analyzed for petroleum hydrocarbons and PAHs.
- SCS does not recommend additional environmental investigation regarding potential impacts to groundwater beneath the site if construction activities associated with future development of the site will not extend to the level of groundwater. However, if construction activities are planned that could encounter groundwater, additional research should be performed to determine whether prior investigations of groundwater contamination in the vicinity of the site by UPRR or other parties have identified whether contamination extends to groundwater beneath the site. If there is no information for the site, this information could be obtained by installation and sampling of one or more groundwater monitoring wells on the site downgradient of areas of known groundwater contamination. If feasible, this could also be accomplished using a geoprobe or hydropunch to sample groundwater without installing a permanent well.

10 DEVIATIONS AND ADDITIONAL SERVICES

Additions to the general ASTM scope of work for Phase I ESAs included the following: 1) geologic and hydrogeologic information for the site area was researched in order to assess the direction of regional groundwater flow in this area; and 2) additional environmental record sources were automatically included as part of the standard environmental database search report performed by Allands.

Certain business environmental risks associated with a property's current or planned use could have a material environmental or environmentally-driven impact on the business or real estate transaction. The assessment of business environmental risks may involve the investigation of considerations that are outside the subject of the ASTM standard practice (non-ASTM). No implication is intended as to the relative importance of inquiry into such non-ASTM considerations. COT ES did not request investigation of non-ASTM considerations as part of the Scope of Services.

11 REFERENCES

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Parker, George. City of Tucson Property Manager. Owner Questionnaire (interviewed June 30, 2008).

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Pima County Development Services. On-line search for permits for the site parcel.

Pima-Tucson Public Library. Review of city directories for the years 1919, 1924, 1929, 1935, 1940, 1944, 1951, 1953, 1954, 1960, 1965, 1970, 1974, 1980, 1984, 1985, 1990, 1995, 1998, 2001, 2005, and 2007.

Purdy, Pearlie, former resident of 521 North 9th Avenue (north of site). Additional Interview (June 19, 2008).

Shenk, Douglas, Senior Project Manager. Environmental Resources Management (ERM), the environmental consultant for UPRR. Past communications regarding investigations by UPRR along the railroad corridor.

Singleton, Nicki S. City of Tucson Fire Department (TFD). Records review (June 12, 2008).

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12 QUALIFICATION AND SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This report, entitled *Phase I Environmental Site Assessment*, has been prepared for a 0.43-acre vacant parcel located at 515 North 9th Avenue, Tucson, Arizona (APN 117-04-1940). It has been prepared in accordance with the guidelines set forth in the American Society for Testing and Materials (ASTM) Standard E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. It has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned. Resumes for the personnel listed below are included in Appendix K.

Patricia M. Hartshorne, RG is a Project Manager in SCS's Tucson, Arizona office.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Patricia M. Hartshorne, RG

Date

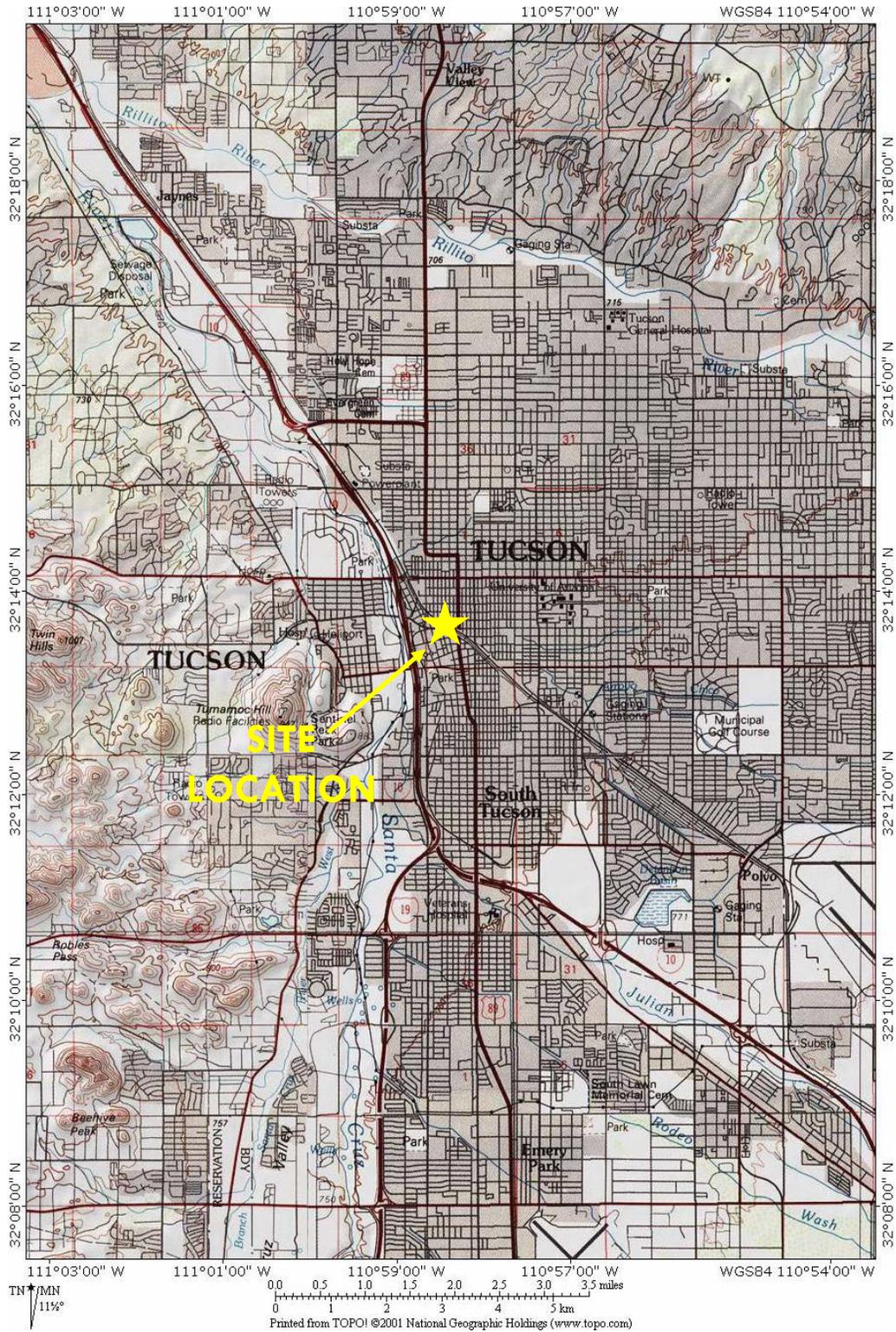
The following personnel that do not meet the definition of Environmental Professional also performed portions of the work described in this report, and performed this work under the supervision of Ms. Hartshorne:

Stephen James, Environmental Technician, SCS Engineers, Tucson, Arizona

Date

APPENDICES

APPENDIX A
FIGURES



Source: TOPO! Map printed from "ARIZONA.TPO"

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.



--- APPROXIMATE SITE BOUNDARY

0 100 200
APPROXIMATE SCALE IN FEET

Source: PCDOT MapGuide Website, 2005 aerial

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

10207028.04

0.43-Acre Vacant Parcel
(APN 117-04-1940)
515 North 9th Avenue
Tucson, Arizona

Figure 2
Site and Vicinity Map

APPENDIX B
PHOTOGRAPHS



North portion of the site. Scattered railroad ballast on the surface of the site. View to the east.



East portion of the site. Wood benches, gardens, stained soil, and a ramada. View to the north.



South portion of the site. Railroad ballast on the surface in the foreground. View to the east.



Portion of the west boundary of the site. View to the south.



Northwest portion of the site. Pile of broken asphalt, broken concrete, and pieces of metal. View to the northwest.



Excavation in the northeast portion of the site. Compost bins and 55-gallon drum for water in the background. View to the west.



Composting bins, 55-gallon water drum, bucket, and hose entering the site from the north adjoining property. View to the north.



Garden area and benches in the east portion of the site. View to the east.



Ramada on the east portion of the site. View to the northeast.



Mud and straw oven on pallets on the east portion of the site. View to the east.



Vacant property adjoining the site to the north. View to the north.



Property adjoining the northwest portion of the site. View to the northwest.



Northeast North 9th Avenue and commercial property northeast of the site. View to the northeast.



Commercial business on a property adjoining the site to the northeast. View to the east.



Commercial business adjoining the site to the east. View to the east.



BICAS Underground Community Center east and southeast of the site. View to the northeast.



Open Studios adjoining the site to the east and southeast. View to the northeast.



South adjoining property. Railroad tracks and commercial building south of the tracks. View to the south.



Arroyo and railroad bridge adjoining the southwest portion of the site to the west. View to the west.



Metal building, wood, and sheetmetal on the property adjoining the site to the northwest. View to the northwest.

APPENDIX C

ALLANDS REGULATORY DATABASE SEARCH REPORT



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www.allands.com • e-mail: sharon@allands.com

Historical Title and Environmental Research

REGULATORY DATABASE (ASTM) SEARCH

YOUR FILE NO: 207028.04

ALLANDS FILE NO: 2008-06-033D

DATE OF REPORT: June 15, 2008

ALLANDS hereby reports the search results of Federal and State Databases according to ASTM standards for Phase I Environmental Site Assessments E 1527-05. Allands is not responsible for errors in the available records. The total liability is limited to the fee paid for this report. This is a confidential, privileged and protected document for the use of SCS Engineers.

1. The land referred to in this report is located in Pima County, Arizona, described as follows:

Property located at 515 North 9th Avenue, Tucson, Arizona, being in the Southwest quarter of Section 12, Township 14 South, Range 13 East, Gila and Salt River Base and Meridian.

REGULATORY DATABASE SEARCH SUMMARY

Database	Date of Database	Approximate Minimum Search Distance (miles)	Reported Facilities
Standard Federal ASTM Environmental Record Sources			
NPL (National Priorities List) / Proposed NPL / DOD (Department of Defense Sites)	05/08	1.0	0
Delisted National Priorities List	05/08	0.5	0
CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System)/No Further Remedial Action Planned (NFRAP)	04/08	0.5	6
RCRA (Resource Conservation and Recovery Act) Large and Small Quantity Generators	10/07	0.125	1
RCRA – CORRACTS TSDFs (Corrective Action Treatment, Storage, and Disposal Facilities)	10/07	1.0	0
RCRA – Non-CORRACTS TSDFs	10/07	0.5	0
ERNS (Emergency Response Notification System)	10/07	0.125	0
Standard State ASTM Environmental Record Sources			
WQARF (Water Quality Assurance Revolving Fund) Areas	05/08	1.0	1
Superfund Program List (replaces ACIDS)	08/04	0.5	1
Solid Waste Facilities/Landfill Sites – Operating and Closed	05/99 & 05/04	0.5	0
Control Registries	07/07	Site and adjoining	0
Brownfields / Voluntary Remediation Program	07/07	0.5	1
Registered USTs (Underground Storage Tanks)	05/08	0.125	9
LUSTs (Leaking Underground Storage Tanks) Incident Reports	05/08	0.5	16
Additional Environmental Record Sources			
RCRA Compliance Facilities	07/07	0.125	0
Hazardous Materials Incidents Emergency Response Logbook	1984-06/01	0.125	0
ADEQ Drywell Registration Database	05/08	0.125	0
Environmental Permits	07/07	Site	0
Fire Insurance Maps	Various	Site and adjoining	1
Topographical / Aerial Maps	See text	Site and adjoining	2
VEMUR / DEUR / LIENS	07/07	Site	0
Arizona Department of Water Resources Well Registration Database	09/07	Site and adjoining	See Text

Allands contacts the appropriate sources on a monthly basis to maintain currency of data

Standard Federal ASTM Environmental Record Sources

SUPERFUND NATIONAL PRIORITIES LIST (NPL)

Under Section 105 of the Comprehensive Environmental Response, Compensation and Liability Act the Environmental Protection Agency established a National Priorities List (NPL) of Superfund sites. In addition, Proposed NPL and DOD (Department of Defense) Sites are researched in the section. These databases are provided by the EPA and the Arizona Department of Environmental Quality, dated May, 2008, and searched to identify all NPL/Proposed NPL/ DOD sites within a 1.0 mile search distance from subject property exterior boundaries.

Note: Due to inconsistency between the general area site description in the Narrative site information and the detailed site map, the distance/directions are determined based upon the most current site map available from ADEQ.

No National Priorities List (NPL) / Proposed NPL / DOD Sites were found located within a 1.0 mile search distance from subject property exterior boundaries.

DELISTED NATIONAL PRIORITIES LIST

Site may be delisted from the National Priorities List where no further response is appropriate. This database is provided by the Environmental Projection Agency, dated May, 2008, and searched to identify all Delisted NPL Sites within a 0.5 mile search distance from subject property exterior boundaries.

No Delisted National Priorities List (NPL) Sites were found located within a 0.5 mile search distance from subject property exterior boundaries.

FEDERAL CERCLIS / NFRAP LIST

The CERCLIS list contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL. Those sites on the NFRAP list have no further remedial action planned. This database is provided by EPA dated April, 2008, and searched for facilities within a 0.5 mile search distance from subject property exterior boundaries.

EPA ID	NFRAP	FACILITY	ADDRESS	DISTANCE/ DIRECTION
AZD983484890	X	United Fire Company	Approx 3 Of 300 E 7th St	0.4 mi. SE
AZD982002990		Oliver's Cleaners / 7th St & Arizona Ave	300 E 7th St	0.4 mi. SE
AZD008397796	X	Pioneer Paint & Varnish Co	438 W Congress St	0.4 mi. SW
AZD983484882		Downtown Auto Center	330 N 5th Ave / Approx S Of 300 E 7th St	0.5 mi. SE
AZT000646059	X	Universal Waste Control	330 N Fifth Ave	0.5 mi. SE
AZD983484890	X	United Fire Auto	335 N 4th Ave	0.5 mi. SE

RESOURCE CONSERVATION AND RECOVERY ACT FACILITIES (RCRA)

Under RCRA the Environmental Protection Agency compiles a database of facilities that are involved in the generation of hazardous materials. This database is from the Arizona Department of Environmental Quality RCRAInfo Database, dated October, 2007 and checked for Federal RCRA facilities located within a <=0.125 mile search distance from subject property exterior boundaries.

EPA ID	FACILITY	ADDRESS	NOTIF. DATE	STATUS
AZR000005256	Milex Auto Service Centers	600 N Stone Ave	8/17/2005	N

CODES:

LQG: Large quantity generator (more than 1000 kg per month)
 SQG: Small quantity generator (100 – 1000 kg per month)
 CEG: Conditionally exempt small quantity generator (less than 100 kg per month)
 N : Not a generator verified or inactive generator

CORRACTS FACILITIES

Under RCRA the Environmental Protection Agency compiles a database of Corrective Action Sites, sites with known contamination. Also known as the RCRA CORRACTS List, this is a list maintained by the EPA of RCRA sites at which contamination has been discovered and where some level of corrective clean-up activity has been undertaken. For example, a site may have been on the RCRA TSD or the RCRA Generators site list, and was placed on the CORRACTS list once contamination was discovered and remediation was underway. This database is dated October, 2007, and checked for facilities which occurred within a 1.0 mile search distance from subject property exterior boundaries.

No Facilities were found which occurred within a 1.0 mile search distance from subject property exterior boundaries.

TSD FACILITIES

Under RCRA the Environmental Protection Agency compiles a database of facilities that are involved in the transportation, treatment, storage, or disposal of hazardous materials. This database is from the Arizona Department of Environmental Quality Arizona Hazardous Waste Treatment, Storage and Disposal Facilities, dated October, 2007, and checked for Facilities which occurred within a 0.5 mile search distance from subject property exterior boundaries.

No TSD Facilities were found which occurred within a 0.5 mile search distance from subject property exterior boundaries.

FEDERAL EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) LIST

The ERNS list is a national database used to collect information on reported releases of oil and hazardous substances. This database is provided by the National Response Center and the EPA through the Right of Know Net by OMB Watch and Unison Institute from 1983 to October, 2007, and checked for incidents located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

No incidents were found located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

Standard State ASTM Environmental Record Sources

WATER QUALITY ASSURANCE REVOLVING FUND (WQARF)

The state of Arizona established a remedial program under A.R.S. 49-282 to facilitate the conservation and clean-up of Arizona drinking water and water sources. Under the authority of the WQARF program, the state actively identifies any actual or potential impact upon state waters, evaluates the extent of contamination, identifies parties responsible, and provides money grants to assist in clean-up activities. This database is provided by the Arizona Department of Environmental Quality dated May, 2008, and searched to identify all WQARF sites within a 1.0 mile search distance from subject property exterior boundaries.

Note: Due to inconsistency between the general area site description in the Narrative site information and the detailed site map, the distance/directions are determined based upon the most current site map available from ADEQ.

7TH ST & ARIZONA AVE / OLIVER'S CLEANERSWQARF Registry List Site is located 0.2 mi. Southeast of subject property. More information attached.

ARIZONA SUPERFUND PROGRAM LIST

The Arizona Superfund Program List replaces the Arizona CERCLIS Information Data System (ACIDS). This list is more representative of the sites and potential sites within jurisdiction of the Arizona Department of Environmental Quality Superfund Programs Section (SPS). This database is provided by the Arizona Department of Environmental Quality, dated August, 2004, and searched to identify all sites within a 0.5 mile search distance from subject property exterior boundaries.

SITE	PROGRAM	PROGRAM STATUS	PROGRAM DATE	DISTANCE/DIRECTION
Oliver's Cleaners / 7th St & Arizona Ave	WQARF	PENDING PI ON REGISTRY	01-01-98 04-27-00	0.2 mi. SE

Program Status codes:

Pending PI WQARF Preliminary Investigation (PI) is scheduled or in process
On Registry PI has resulted in inclusion of a site on the WQARF Registry
ACTIVE The Department of Defense is presently addressing the site
On NPL site has been listed on the CERCLA National Priorities List

LANDFILLS

The state of Arizona maintains listings of closed and permitted, operating landfills and solid waste dump sites. Lists of closed facilities are not necessarily complete - older dumping areas may not be documented. This database is from the Arizona Department of Environmental Quality Waste Programs Division; Solid Waste Section Directory of Arizona Active and Inactive Landfills dated May, 1999 and May, 2004, and checked for active and inactive landfills located within a 0.5 mile search distance from subject property exterior boundaries.

No active nor inactive landfills were found located within a 0.5 mile search distance from subject property exterior boundaries.

Codes:

MSWLF:	Municipal Solid Waste Landfills
CSWLF:	Closed Solid Waste Landfills
CSWOD:	Closed Solid Waste Dumps

CONTROL REGISTRIES

Under ASTM E 1527-05, Federal, State and Tribal institutional control / engineering control registries need to be researched. The Arizona Department of Environmental Quality has developed the AZURITE Database, reviewed through ADEQ GIS eMaps, which retrieves any institutional or engineering controls, dated July, 2007, and searched for sites which occurred at subject property or adjoining properties.

No institutional or engineering controls were found which occurred at subject property or adjoining properties.

BROWNFIELDS / VOLUNTARY CLEANUP PROGRAM

The Arizona Department of Environmental Quality has developed the AZURITE Database, reviewed through ADEQ GIS eMaps, which includes the ADEQ Voluntary Remediation Program and the ADEQ Brownfields Tracking System, dated July, 2007, and searched for sites which occurred within a 0.5 mile search distance from subject property exterior boundaries.

SITE NAME	ADDRESS	ADEQ FILE NO.	STATUS	DATE
UPRR Passenger Depot	400 E Toole Ave	100149-00	Closed	2/11/2002 started 7/18/02 Closed

**REGISTERED UNDERGROUND STORAGE TANKS
(UST)**

State (A.R.S. 49-1001 to 1014) and Federal (RCRA Subtitle I) laws require that persons who own or have owned underground storage tanks containing “regulated substances” complete a notification form and register the tank with the state. Tribal UST records are researched when subject property exterior boundaries are within search distance of Tribal lands. This database is from the Arizona Department of Environmental Quality UST Log dated May, 2008, and searched for UST sites located within a <=0.125 mile search distance from subject property exterior boundaries.

ID	FACILITY	ADDRESS	TANK ID	IN USE	STATUS	REMOVED
0-009090	Kv 33 Corp	56 E 5th St	1	NO	Removal	12/30/1986
0-009090	Kv 33 Corp	56 E 5th St	2	NO	Removal	12/30/1986
0-009090	Kv 33 Corp	56 E 5th St	3	NO	Removal	12/30/1986
0-009090	Kv 33 Corp	56 E 5th St	4	NO	Removal	07/17/1987
0-008568	Vacant Property	48 E 6th St	1	NO	Removal	03/14/1995
0-001437	Tucson Freight Dock	526 N 9th Ave	1	NO	Removal	08/25/1993
0-001437	Tucson Freight Dock	526 N 9th Ave	2	NO	Removal	08/25/1993
0-000357	Milex	600 N Stone Ave	1	NO	Removal	09/16/1994
0-002352	Purcell Tire Co	601 N Stone Ave	1	NO	Removal	01/23/1990
0-002352	Purcell Tire Co	601 N Stone Ave	2	NO	Removal	01/23/1990
0-002352	Purcell Tire Co	601 N Stone Ave	3	NO	Removal	01/23/1990
0-002352	Purcell Tire Co	601 N Stone Ave	4	NO	Removal	01/23/1990
0-004771	Arizona Truckoutfitters	649 N Stone Ave	1	NO	Removal	01/09/1992
0-004771	Arizona Truckoutfitters	649 N Stone Ave	2	NO	Removal	01/09/1992
0-004771	Arizona Truckoutfitters	649 N Stone Ave	3	NO	Removal	01/09/1992
0-004771	Arizona Truckoutfitters	649 N Stone Ave	4	NO	Removal	01/09/1992
0-006575	Arizona Auto Refrigeration	549 N Stone Ave	1	NO	Removal	01/11/1989
0-006575	Arizona Auto Refrigeration	549 N Stone Ave	2	NO	Removal	01/11/1989
0-006575	Arizona Auto Refrigeration	549 N Stone Ave	3	NO	Removal	01/11/1989
0-006575	Arizona Auto Refrigeration	549 N Stone Ave	4	NO	Removal	11/30/1993
0-009260	Tanno's Auto Detailing	503 N Stone Ave	1	NO	Removal	07/23/1998
0-009260	Tanno's Auto Detailing	503 N Stone Ave	2	NO	Removal	07/23/1998
0-009260	Tanno's Auto Detailing	503 N Stone Ave	3	NO	Removal	07/23/1998
0-005189	TEPCO - Downtown Office Fuel Tank	220 W 6th St	1	No	Removal	4/14/1988

**REGISTERED UNDERGROUND STORAGE TANKS
(DETAILS)**

Facility Id	Facility	Owner Id	Owner
Tank No.	Status	Capacity	Age
Tank Release Detection	Content	Piping Type	Tank Material
	Pipe Material		Pipe Release Detection

0-009090 **KV 33 Corp** Pima Co. 6134 Ron Huffman
 56 E 5th St ,Tucson AZ 85705
 1 REMV Gasoline 6000
 2 REMV Gasoline 6000
 3 REMV Gasoline 6000
 4 REMV Diesel 10000

0-008568 **Vacant Property** Pima Co. 5266 Fletcher Haskell/lawyers Title
 48 E 6th St ,Tucson AZ 85701
 1 PERM Diesel 500

0-001437 **Tucson Freight Dock** Pima Co. 222 ADOT Environmental Planning-Poss
 526 N 9th Ave ,Tucson AZ 85705
 1 REMV Diesel 10000 Bare Steel Pressure
 2 REMV Gasoline 4000 Bare Steel Pressure

0-000357 **Milex** Pima Co. 271 Milex
 600 N Stone Ave ,Tucson AZ 85705
 1 REMV Used Oil 1000 None

0-002352 **Purcell Tire Co** Pima Co. 1571 Goodyear Tire & Rubber/S. Lunt
 601 N Stone Ave ,Tucson AZ 85705
 1 REMV Used Oil 500 Bare Steel
 2 REMV Gasoline 6000 Unknown
 3 REMV Gasoline 6000 Unknown
 4 REMV Used Oil 6000 Unknown

0-004771 **Arizona Truckoutfitters** Pima Co. 4340 John Woodward
 649 N Stone Ave ,Tucson AZ 85705
 1 REMV Gasoline 500 Galvanized Steel Pressure
 2 REMV 500 Galvanized Steel Pressure
 3 REMV 500 Galvanized Steel Pressure
 4 REMV Used Oil 100 Galvanized Steel Pressure

**REGISTERED UNDERGROUND STORAGE TANKS
(DETAILS CONT.)**

Facility Id	Facility		Owner Id	Owner	
Tank No.	Status	Content	Capacity	Age	Tank Material
Tank Release Detection		Pipe Material	Piping Type		Pipe Release Detection

0-006575 **Arizona Auto Refrigeration** Pima Co. 2581 Patricia Bogue Dickens
 549 N Stone Ave ,Tucson AZ 85705
 1 REMV Gasoline 8000 Unknown
 2 REMV Gasoline 8000 Unknown
 3 REMV Gasoline 8000 Unknown
 4 REMV Used Oil 280 Interstitial Monitoring (Secondary Unknown Line Tightness Testing Containment)

0-009260 **Tanno's Auto Detailing** Pima Co. 9999 Unknown Owner Possess
 503 N Stone ,Tucson AZ 85705
 1 REMV Gasoline 1000 Bare Steel Suction: Check
 2 REMV Gasoline 1000 Bare Steel Suction: Check
 3 REMV Gasoline 500

0-005189 **Downtown Office Fuel Tank** Pima Co. 3578 Tucson Electric Power Company
 220 W 6th St ,Tucson AZ 85701
 1 REMV Gasoline 10000 Bare Steel

**REGISTERED LEAKING UNDERGROUND STORAGE TANKS
(LUST)**

Owners of USTs are required to report to the Arizona Department of Environmental Quality any and all releases of tank contents for which ADEQ maintains an ongoing file documenting the nature of contamination and the status of each such incident. Tribal LUST records are researched when subject property exterior boundaries are within search distance of Tribal lands. This database is from the ADEQ LUST Log dated May, 2008, and searched for LUST sites located within a 0.5 mile search distance from subject property exterior boundaries.

ID	LUST ID NO	FACILITY	ADDRESS	DATE OPEN	DATE CLOSED	P CODE	DIST./ DIREC.
0-007734	2965.01 2965.02	Adot Equipment Services-Possess	35 E Toole Ave	8/12/1993 8/12/1993	OPEN OPEN	2 2	0.2 mi. SE
0-007815	0560.01	Wakefield Investments	107 E 6th St	10/17/1988	1/27/1989	5R1	0.2 mi. SE
0-008966	4607.01	Tucson Tire /Texaco /Cherie Martin	846 N Stone Ave	8/15/1996	4/7/1999	5G1	0.3 mi. NE
0-006763	1136.01 1136.02	Yellow Cab Company	411 N 5th Ave	3/6/1990 3/6/1990	OPEN OPEN	1F 1F	0.3 mi. SE
0-007556	0505.01 0505.02	Firestone Mastercare Store	445 N 6th Ave	8/4/1988 8/15/1994	3/28/2002 3/28/2002	5G1 5G1	0.3 mi. SE
0-005269	1214.01 1214.02 1214.03 1214.04	Unocal # 1869	1100 N Stone Ave	8/1/1990 11/7/1995 11/7/1995 11/7/1995	6/30/1998 6/30/1998 6/30/1998 6/30/1998	5R1 5R1 5R1 5R1	0.4 mi. N
0-002641	3945.01	Arizona Sash & Door	657 W Saint Marys Rd	2/17/1995	1/16/1996	5R1	0.4 mi. NW
0-005304	4411.01 4411.02	Joe's Service	695 W Saint Marys Rd	4/17/1996 4/17/1996	5/12/1999 5/12/1999	5G1 5G1	0.4 mi. NW
0-007088	1832.01	Charlie's Autos Warehouse	331 E 7th St	6/18/1991	2/16/1994	6	0.4 mi. SE
0-008601	4206.01 4206.02	Tanner Motor Tours	139 N Scott Ave	9/7/1995 9/7/1995	8/8/1997 8/8/1997	5R1 5R1	0.4 mi. SE
0-009008	4622.01	Bank One Arizona	2 E Congress St	11/25/1996	6/11/1997	5R1	0.4 mi. SE
0-001048	2910.01 2910.02 2910.03 2910.04 2910.05 2910.06	Chevron # 9-4234	203 E Speedway	2/11/1998 1/29/1998 1/29/1998 2/11/1998 2/11/1998 2/11/1998	7/26/2005 7/26/2005 7/26/2005 7/26/2005 7/26/2005 7/26/2005	5R1 5R1 5R1 5R1 5R1 5R1	0.5 mi. NE
0-009540	5138.01 5138.02	Medina's Service Garage	1047 N Main Ave	12/2/1999 12/2/1999	2/28/2000 2/28/2000	5R1 5R1	0.5 mi. NW
0-000813	1685.01	Oliver's Cleaners	300 E 7th St	2/27/1991	2/26/1993	6	0.5 mi. SE
0-009939	5323.01	Rich Rodgers South Inc Property	151 E Broadway Blvd	5/28/2003	9/30/2003	5R1	0.5 mi. SE
0-003930	0912.01	Pioneer Paint & Varnish Company	438 W Congress	10/2/1989	OPEN	1D	0.5 mi. SW

P CODE (Leaking UST Priority):

1D	Defined soil & GW requires remediation (levels exceed standards for one or more media)
IF	Free product present on GW and/or SW
2	Undefined soil contamination (default for newly reported LUSTs)
2S	Suspected release, unknown whether or not soil contamination exists
5G1	Closed soil/GW levels meet RBCA Tier I
5R1	Closed soil levels meet RBCA
6	Incident/tank was determined not to be UST jurisdiction and referred to another program

Additional Environmental Record Sources

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) COMPLIANCE FACILITIES

The RCRA Compliance Log lists facilities that have been or presently are under investigation for non-compliance with RCRA regulations. Inclusion of any facility on this list indicates a history of compliance problems and RCRA regulatory violation. This database is from the Arizona Department of Environmental Quality RCRA Compliance Log, dated July, 2007, and searched for compliance facilities within a ≤ 0.125 mile search distance from subject property exterior boundaries.

No compliance facilities were found located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

HAZARDOUS MATERIAL INCIDENTS

The Arizona Department of Environmental Quality (ADEQ) Response Team documents spills and incidents involving hazardous materials that are reported to the unit. This database is from the Arizona Department of Environmental Quality Emergency Response Log from 1984 through June, 2001, and checked for hazardous material incidents located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

No hazardous material incidents were found located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

ADEQ DRY WELL REGISTRATION DATA BASE

Dry wells are constructed for the purpose of collecting storm waters. Dry wells are required to be registered with ADEQ. This database is from the ADEQ dry well registration database dated May, 2008, and searched for dry wells located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

No registered dry wells were found located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

ENVIRONMENTAL PERMITS

These lists include Groundwater Permits, Reuse Permits; National Pollutant Discharge Elimination System (NPDES) Permitted Facilities and Aquifer Protection Permits. Any facility which discharges a material that directly or indirectly adds any pollutant to the waters of the state may be required to obtain a permit as required by the Aquifer Protection Permit Rules. These databases are from the Arizona Department of Environmental Quality through its AZURITE Database System and the Environmental Protection Agency and updated to July, 2007, and checked for inclusion of subject property.

Subject property was not found on these lists.

FIRE INSURANCE MAPS

A review was made at the Arizona State Capital Archives for Fire Insurance Maps, more commonly known as Sanborn Maps, which covered the area in which the subject property is located. Subject property is located within the boundaries of available maps.

USGS 7.5 MINUTE TOPOGRAPHICAL MAPS AERIAL PHOTOS

The United States Geological Survey Topographic maps and Aerial Photos are derived from Terrain Navigator Software from Maptech, Inc. (www.maptech.com) and are for informational purposes only.

NAME	TYPE	DATE	REVISION	CONTOUR
Tucson	Topo	1983	None	10 feet
Tucson NW	Aerial	6-10-2007		

VOLUNTARY ENVIRONMENTAL MITIGATION USE RESTRICTIONS BY OWNERS (VEMUR'S); DECLARATION OF ENVIRONMENTAL USE RESTRICTIONS (DEUR); AND ENVIRONMENTAL LIENS

A.R.S. 49-152. This states that the Director of the Arizona Department of Environmental Quality shall allow property owners, who have voluntarily elected to remediate their property for nonresidential uses, to record in the applicable county recorders office a VEMUR limiting, by legal description, the area necessary to protect public health and the environment to nonresidential uses if contamination remains on the property at or above certain levels. In accordance with Arizona Administrative Code (A.A.C.) R18-7-201 et. Seq., a Declaration of Environmental Use Restriction (DEUR) is a voluntary notice to deed which restricts the use of a property to non-residential use. ADEQ maintains a repository listing of sites remediated under programs administered by the department. This is called the Remediation and DEUR Tracking System (RDT) ADEQ's RDT was researched for inclusion of subject property.

No VEMUR'S, DEUR'S; Environmental Liens, or activity and use limitations, if any, were found currently recorded against the property as searched at the subject county recorders office.

ARIZONA DEPARTMENT OF WATER RESOURCES WELL REPORT

This database is from the Arizona Department of Water Resources Well Report Operations Division Report, dated September, 2007. This report identifies existing wells sequenced by legal description and checked for inclusion of subject site and adjacent properties within 10 Acres.

Imaged Records are available at: <http://www.water.az.gov/adwr/Content/ImagedRecords/default.htm>

Water Uses (WU)

A Irrigation
 B Utility (Water Co.)
 C Commercial
 D Domestic
 E Municipal
 F Industrial
 G Recreational
 H Remediation
 I Mining
 J Stock
 K Other - Exploration
 L Drainage
 M Monitoring
 N None
 O Other - Non-Production
 R Recharge
 T Test
 V dewatering

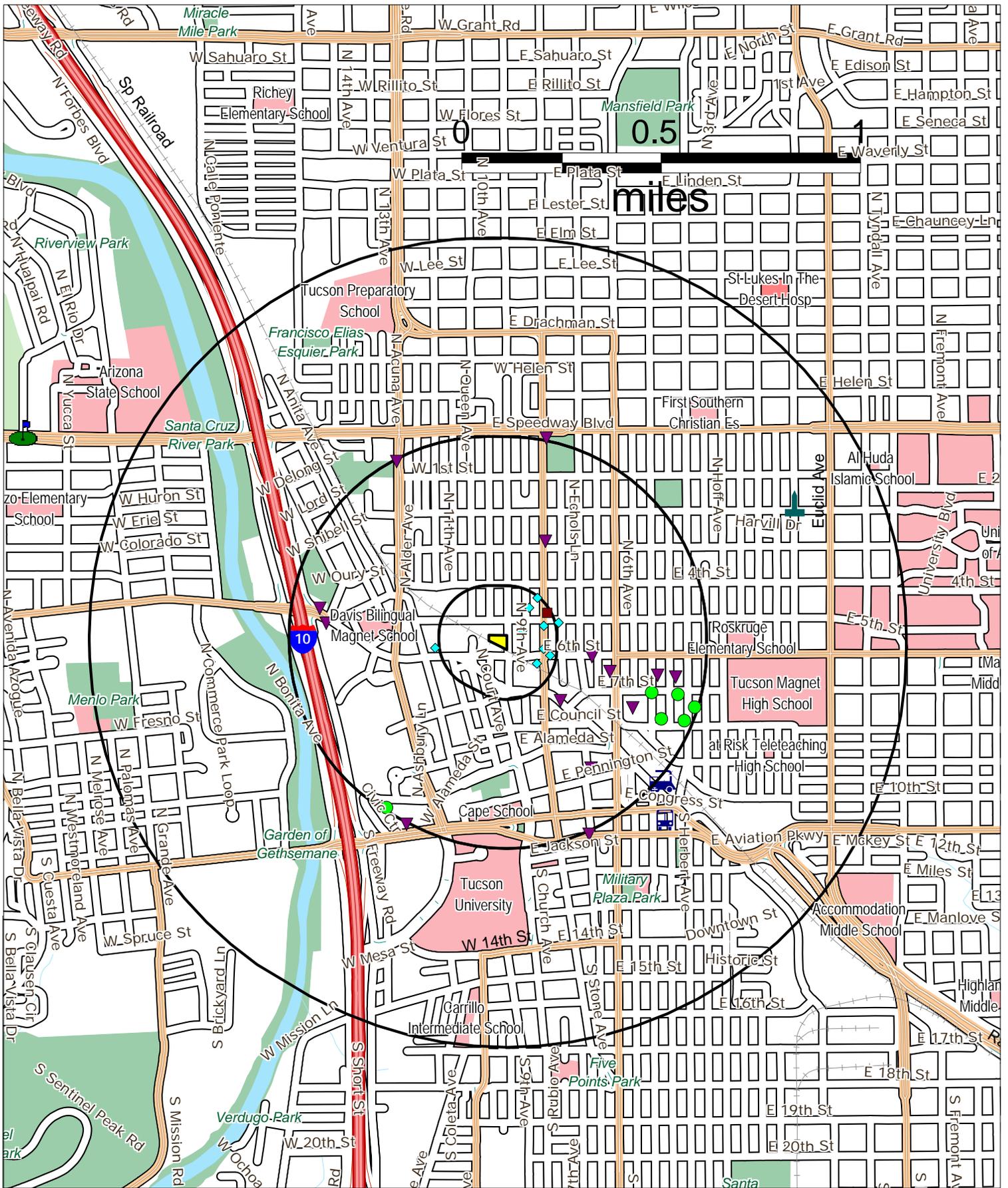
Legal Description

T Township
 N/S North or South
 R Range
 E/W East or West
 S Section
 Q1 Quarter of Section (160 Acres)
 Q2 Quarter Quarter of Section (40 Acres)
 Q3 Quarter Quarter Quarter of Section (10 acres)
 ID Well Registration Number
 WD Well Depth
 WL Water Level
 DIA Casing width

ID	T	N/S	R	E/W	S	Q1	Q2	Q3	WU	WD	WL	DIA	NAME
516151	14	S	13	E	12				N	97	55	0	ADOT,
528939	14	S	13	E	12				N	0	0	0	Yellow Cab,
544806	14	S	13	E	12				N	66	64	0	Bridgestone/Firestone,
567584	14	S	13	E	12				N	0	0	0	Union Pacific Railroad
575074	14	S	13	E	12				T	0	0	0	Union Pacific Railroad
575594	14	S	13	E	12				N	0	0	0	Union Pacific Railroad Co
700343	14	S	13	E	12					151	0	12	
553720	14	S	13	E	12	NW	SE	SE	M	0	0	0	Yellow Cab Co-Tucson,
517518	14	S	13	E	12	NW	SW	SE	M	69	54	3	Adot,
700412	14	S	13	E	12	SW	NE	NE		730	0	8	
553726	14	S	13	E	12	SW	NE	NE	M	0	0	0	Yellow Cab Co-Tucson,
801604	14	S	13	E	12	SW	NE	NE	F	630	150	8	Haskell Jnt Venture,
555810	14	S	13	E	12	SW	NE	NE	M	75	60	4	Arizona Dept Of Environment
553159	14	S	13	E	12	SW	NE	NE	M	0	0	0	Yellow Cab Co-Tucson,

**ARIZONA DEPARTMENT OF WATER RESOURCES
WELL REPORT (cont.)**

ID	T	N/S	R	E/W	S	Q1	Q2	Q3	WU	WD	WL	DIA	NAME
552816	14	S	13	E	12	SW	NE	NE	M	0	0	0	Yellow Cab Co-Tucson,
576300	14	S	13	E	12	SW	NE	NE	T	77	0	4	Arizona Department Of Env
700413	14	S	13	E	12	SW	NE	NE		660	0	5	
562046	14	S	13	E	12	SW	NE	NE	M	79	64	2	Bfs Retail & Commercial O
583968	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
583966	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
575616	14	S	13	E	12	SW	NE	NW	T	80	0	4	Union Pacific Railroad
583967	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
583969	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
583970	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
583971	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad
583972	14	S	13	E	12	SW	NE	NW	T	0	0	0	Union Pacific Railroad



0.5
miles

LEGEND



★ SITE

◆ USTs

● CERCLA / NFRAP

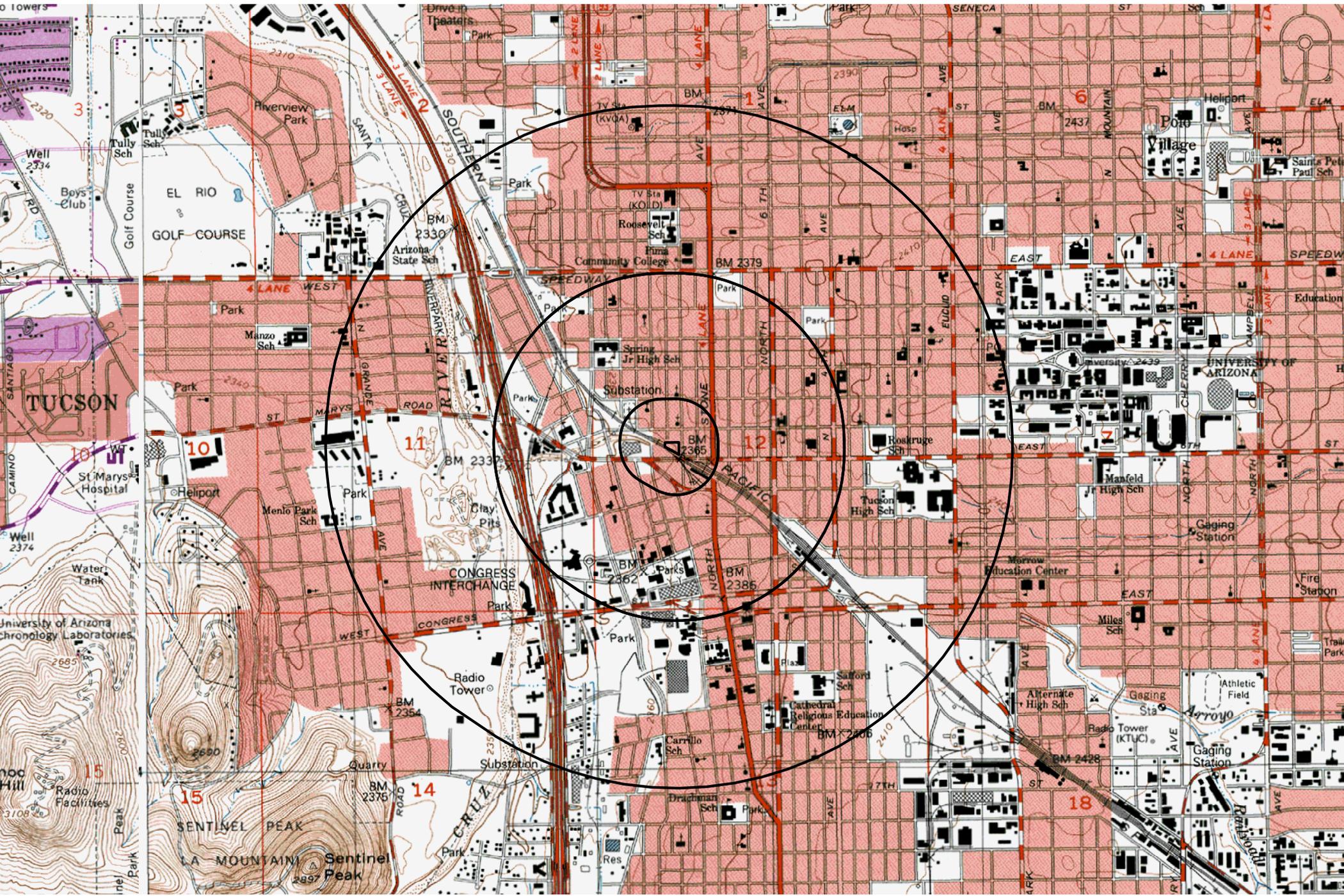
■ RCRA (Generators, TSD & CORRACTS TSD)

■ SCHOOL

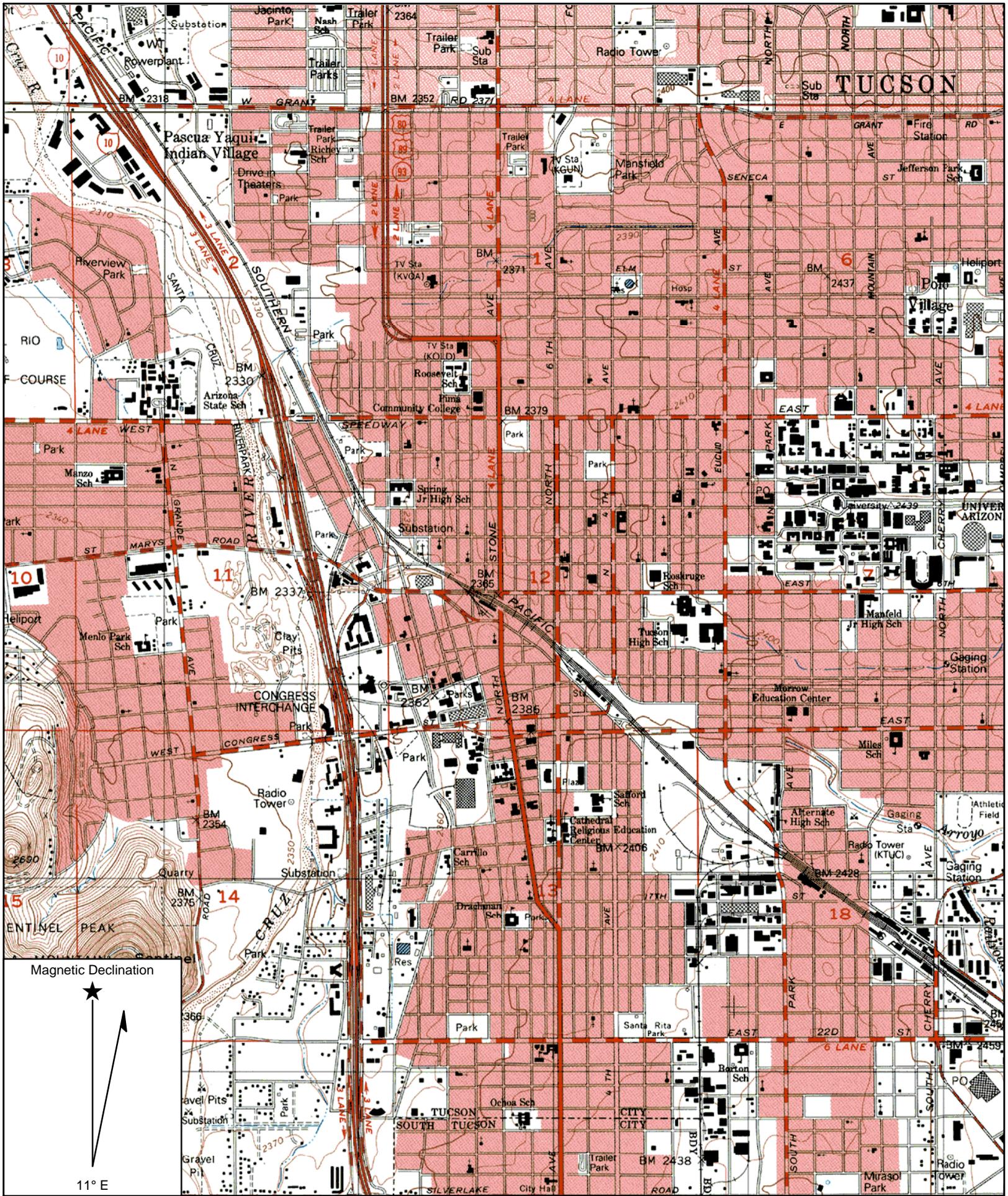
▼ LUSTs

⊙ LANDFILLS

▲ RCRA COMPLIANCE







Name: TUCSON
 Date: 6/11/2008
 Scale: 1 inch equals 2000 feet

Location: 032° 13' 38.18" N 110° 58' 15.17" W NAD27
 Caption: Job No. 2008-06-033
 Contour interval is 10 feet

APPENDIX D
ADEQ WQARF MAP AND SUMMARIES

7th Street and Arizona Avenue

Water Quality Assurance Revolving Fund (WQARF) Site

Boundaries:

The 7th Street and Arizona Avenue Site (Site) is located in downtown Tucson, north of Broadway Boulevard and east of Interstate 10, and is bounded approximately by 4th Street to the north, 4th Avenue to the east, 8th Street and the railroad to the south, and Ash Avenue to the west.

Site Status Update:

In February 2007, five additional wells were installed to further investigate the boundary of tetrachloroethene (PCE) and trichloroethene (TCE). Two more wells were installed in November 2007. An air sparging pilot test was conducted in October 2007 to evaluate the feasibility of air sparging as a remedial method.

Through October 2007, approximately 722 pounds of VOCs have been removed by a soil vapor extraction (SVE) system.

Community Involvement Activities:

The Arizona Department of Environmental Quality (ADEQ) distributes fact sheets and public notices to the nearby community when significant events occur. The most recent fact sheet for the 7th Street and Arizona Avenue WQARF Site can be found on the ADEQ Web site at <http://www.azdeq.gov/environ/waste/sps/download/tucson/7thstreetfact.pdf>.

Site History:

1957-1989: From approximately 1957 to 1989, dry-cleaning businesses were located on the property at 300 E. 7th Street. The building was destroyed by fire in 1989 and now the property is vacant and used for parking. PCE for the dry cleaning process was stored in underground storage tanks (USTs).

1991: Seven USTs, five solvent and two heating and waste oil tanks, were removed from the property.

1992: An assessment of site soils and groundwater was conducted. Soils near the heating and waste oil tanks were found to contain petroleum hydrocarbons. Analysis of a groundwater sample from a water supply well on the Site revealed the presence of PCE and TCE in the regional aquifer underlying the Site.

2000: On April 27, 2000, the Site was placed on the WQARF Registry with an eligibility and evaluation (E&E) score of 40 out of a possible 120.

2003: In July, a report of the findings and recommendations for a potential Early Response Action (ERA) under WQARF was completed. Investigations showed that while a release of

PCE, and possibly TCE, had occurred at the property at 300 E. 7th Street, there appeared to be no route for human exposure.

2005: From January through May, ADEQ conducted two groundwater monitoring events. Elevated concentrations of PCE and TCE existed in the surrounding perched groundwater monitor wells. No contaminants were detected above regulatory standards in the regional aquifer.

2006: In June, ADEQ began operating a soil vapor extraction (SVE) system at the former Oliver's Cleaners, 300 E. 7th Street. The SVE system is estimated to operate for approximately two years.

Contaminants:

The current contaminants of concern in groundwater include PCE, TCE and cis-1,2-dichloroethene (cis-1,2-DCE). Contaminants of concern at the Site may change as new data become available. Currently, there are no known drinking water uses of the perched aquifer. However, if you are drinking water from a private well within the boundaries of the Site, please contact the ADEQ Project Manager.

Public Health Impact:

To ensure that no drinking water wells have been impacted by contamination from the Site, ADEQ completed a drinking water well inventory. The nearest known drinking water wells are in the regional aquifer and are located one-half to one mile northeast of the Site.

Site Hydrogeology:

The Site is located within the Tucson Basin, a northwest trending alluvial valley covering an area of about 750 square miles in the Santa Cruz River drainage basin of southeastern Arizona. The Site is predominantly fine-grained sands and silts interbedded with fine-grained sediments from ground surface to approximately 80 feet below ground surface (bgs). The interbedded material is underlain by a clay aquitard approximately 12 feet in thickness, forming a perched aquifer.

Depth to perched water is approximately 65 feet bgs. The regional aquifer is encountered approximately 170 feet bgs. Flow direction in the regional aquifer is to the northeast.

Contacts:

Name	Phone/Fax	E-Mail
Sherri Zendri, ADEQ Project Manager	(520) 770-3126*/ (520) 628-6745 fax	zendri.sherri@azdeq.gov
Melissa Hayes, ADEQ Community Involvement Coordinator	(520) 770-3309*/ (520) 628-6745 fax	hayes.melissa@azdeq.gov

* In Arizona, but outside the Tucson area, call toll free (888) 271-9302.

Information Repositories:

Site information is available at both ADEQ's Southern Regional Office located at 400 W. Congress, Suite 433 in Tucson, and the main office located at 1110 W. Washington Street in Phoenix. Files are available for review Monday through Friday from 8:30 a.m. to 4:30 p.m. Please call (520) 628-6715 to arrange a file review appointment at the Southern Regional Office. To arrange for a time to review the site file at the main ADEQ office, please call the ADEQ Records Center with 24 hour notice at (602) 771-4380 or (800) 234-5677 (Arizona toll-free).

7th St. & Arizona Ave. Water Quality Assurance Revolving Fund Site Summer 2008

SITE DESCRIPTION

The Arizona Department of Environmental Quality (ADEQ) is investigating groundwater and soil contamination at the 7th Street and Arizona Avenue Water Quality Assurance Revolving Fund (WQARF) Site located in downtown Tucson. The ADEQ WQARF program, which is also known as state Superfund, investigates and cleans up contaminated groundwater and soil sites throughout the state.

The 7th Street and Arizona Avenue WQARF Site is bounded approximately by 4th Street to the north, 4th Avenue to the east, 8th Street and the railroad to the south, and Ash Avenue to the west.

Soils and the perched groundwater aquifer at the site are contaminated with tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2 dichloroethene (cis-1,2 DCE) occurring over regulatory limits. Depth to groundwater is about 65 feet below ground surface (bgs) in the perched aquifer and 173 feet bgs in the regional aquifer.

SITE HISTORY

Dry-cleaning businesses were located on the property at 300 E. 7th Street from approximately 1928 to 1989, when the Oliver's Cleaners building was destroyed by fire. After the building remains were removed, the seven underground storage tanks beneath the building were excavated and removed from the property in 1991. Five of the tanks held dry-cleaning solvent and two held heating and waste oil.



Several groundwater monitor wells have been installed at the 7th Street and Arizona Avenue WQARF Site.



Groundwater monitor wells were installed near locations of historic dry cleaning operations.

During tank removal, soil contaminated with total petroleum hydrocarbons (TPH) was discovered beneath the two heating and waste oil tanks. Sampling of a nearby groundwater production well revealed no detections for TPH. The TPH release was not considered significant and the issue was closed. Further assessment in March 1997 near the underground storage tanks at the former Oliver's Cleaners indicated a maximum concentration of PCE in the soil at 26,000 micrograms per kilogram. TCE, toluene, and xylenes were also detected in the soil, but at concentrations not likely to result in groundwater impact. The sources of PCE contamination correlate to the locations of the former underground PCE storage tanks.

In January 1992, a taxi company located directly northwest of the former Oliver's Cleaners was characterizing a gasoline release at its property and discovered PCE, TCE, and cis-1,2 DCE in the shallow perched aquifer groundwater monitor wells at levels above regulatory limits.

The 7th Street and Arizona Avenue site was placed on the WQARF Registry in April 2000.

SITE INVESTIGATION/CLEANUP ACTION

The property at 300 E. 7th Street is currently used as a paved parking lot for nearby Fourth Avenue businesses. ADEQ regularly monitors the groundwater and soil vapor.

A soil vapor extraction (SVE) system was installed and began operation in late June 2006. The system has operated almost continuously since start-up with short periods of shut down for minor repairs and to change carbon filters. Through October 2007, approximately 722 pounds of VOCs have been removed. During 2007, seven additional monitor wells were installed to further characterize the extent of contamination and to monitor the effectiveness of the current SVE system.

HEALTH/WATER QUALITY

There are potential health risks associated with exposure to volatile organic compounds (VOCs), principally through drinking contaminated groundwater. Therefore, cleanup activities are important to ensure the quality of future drinking water supplies. No one is known to be drinking contaminated water from this site; however, if you are using a private well near the site area, please contact Sherri Zendri, the ADEQ Project Manager.

ADEQ has completed a drinking water well inventory. The nearest known drinking water wells are located one-half to one mile northeast of the site.



Groundwater samples are taken from wells in the 7th Street and Arizona Avenue WQARF Site.



Periodic sampling takes place at the site to monitor the levels of contaminants in the groundwater.

FOR MORE INFORMATION:

Technical Information:

Sherri Zendri
ADEQ Project Manager
400 W. Congress St., Suite 433
Tucson, AZ 85701
(520) 770-3126
E-mail: zendri.sherri@azdeq.gov

Community Involvement:

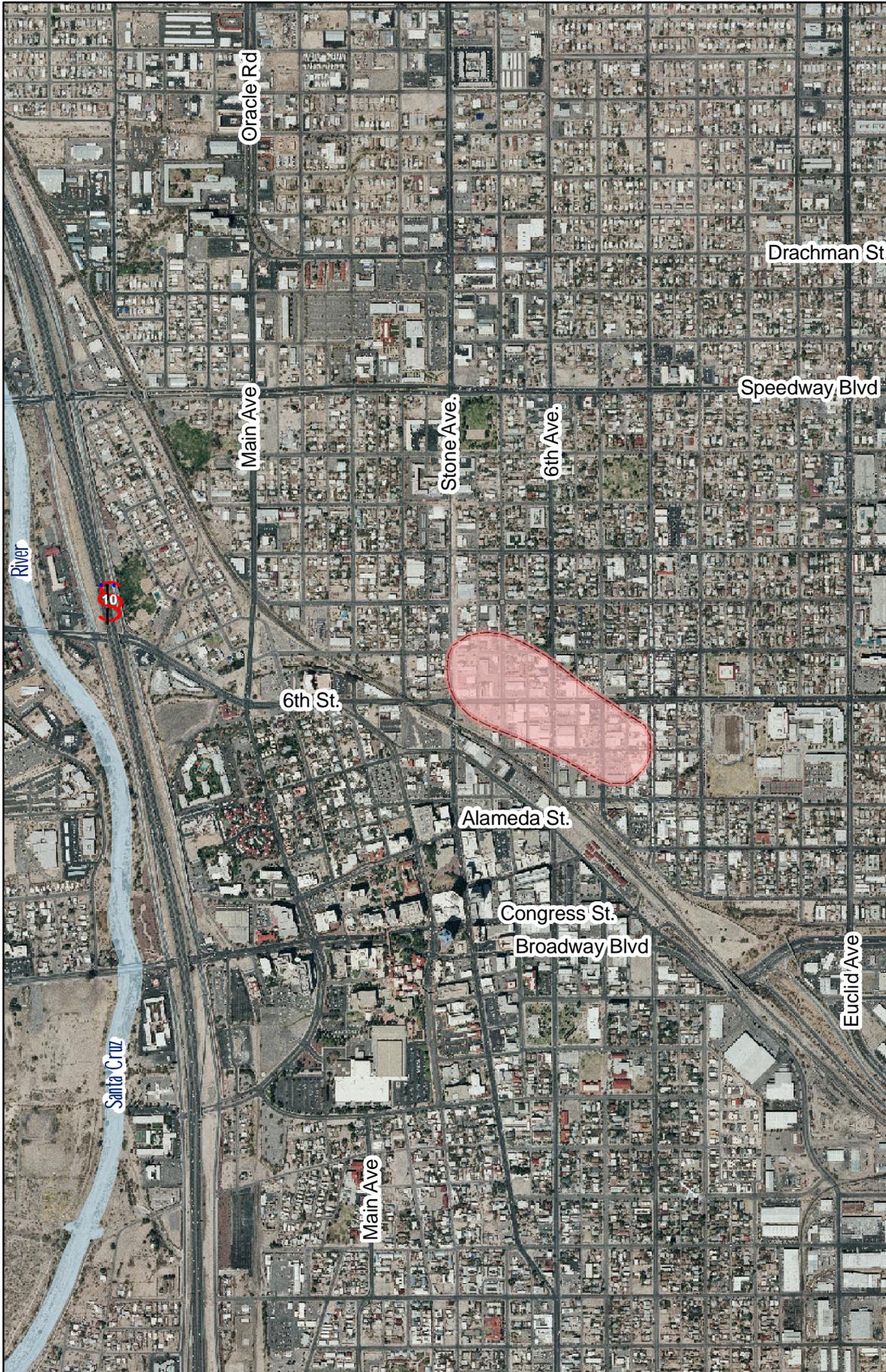
Melissa Hayes
ADEQ Community Involvement Coordinator
400 W. Congress St., Suite 433
Tucson, AZ 85701
(520) 770-3309
E-mail: hayes.melissa@azdeq.gov

Complete public files regarding the site are located at ADEQ's Phoenix offices. Call 1(800) 234-5677 for information. Hearing impaired persons may call ADEQ's TDD line at (602) 771-4829.

For more information on this WQARF site or other WQARF sites in the State of Arizona, please visit the ADEQ Web site at: www.azdeq.gov. In the left-hand column, click on Waste Programs, then on Superfund/WQARF. Look for the Site Information and Maps Link.

Para información en español sobre este sitio, se puede contactar a Melissa Hayes al (520) 770-3309.

7th Street and Arizona Avenue WQARF Site



Legend

Estimated Plume Boundary

N



0.4

Miles

**Tucson, Arizona
December, 2007**

**WASTE PROGRAMS DIVISION
GIS and Data Management Unit**

Map produced by Arizona Department of Environmental Quality (ADEQ), GIS and Data Management Unit, TS Summers

D:\superfund\tucson\2007\arizave_7thst\projects2007\7th_AZave2007-08.mxd.

Data Sources: Arizona Department of Environmental Quality
Arizona Land Resources Information System,
Arizona Department of Transportation.
Image:

Site boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the geographic boundaries for this site may change in the future as new information becomes available.

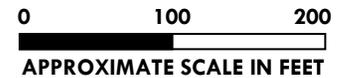
APPENDIX E
HISTORICAL AERIAL PHOTOGRAPHS



 APPROXIMATE SITE BOUNDARY

Source: Cooper Aerial Survey, 1953

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.



 APPROXIMATE SITE BOUNDARY

Source: Cooper Aerial Survey, 1973

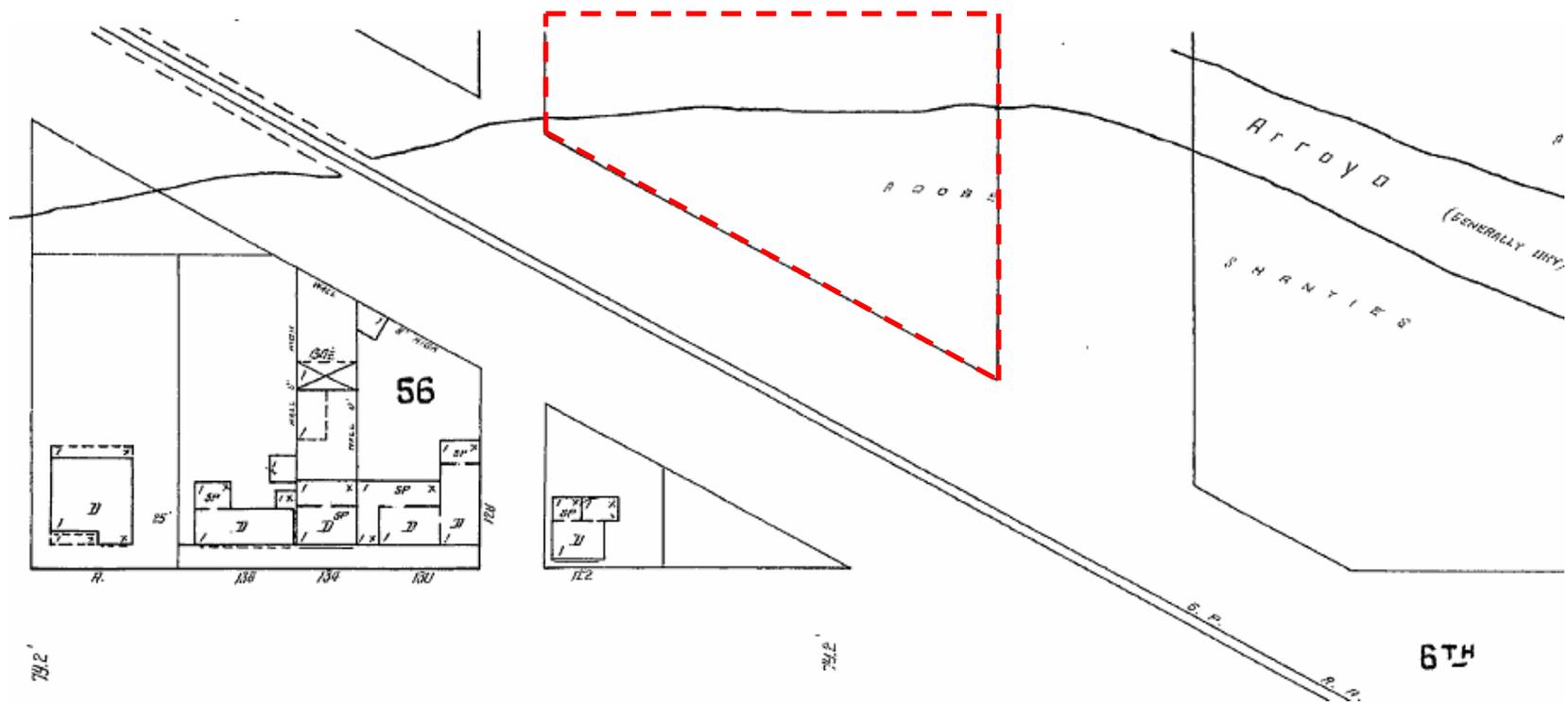
Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

10207028.04

0.43-Acre Vacant Parcel
(APN 117-04-1940)
515 North 9th Avenue
Tucson, Arizona

Historical Aerial Photograph
1973

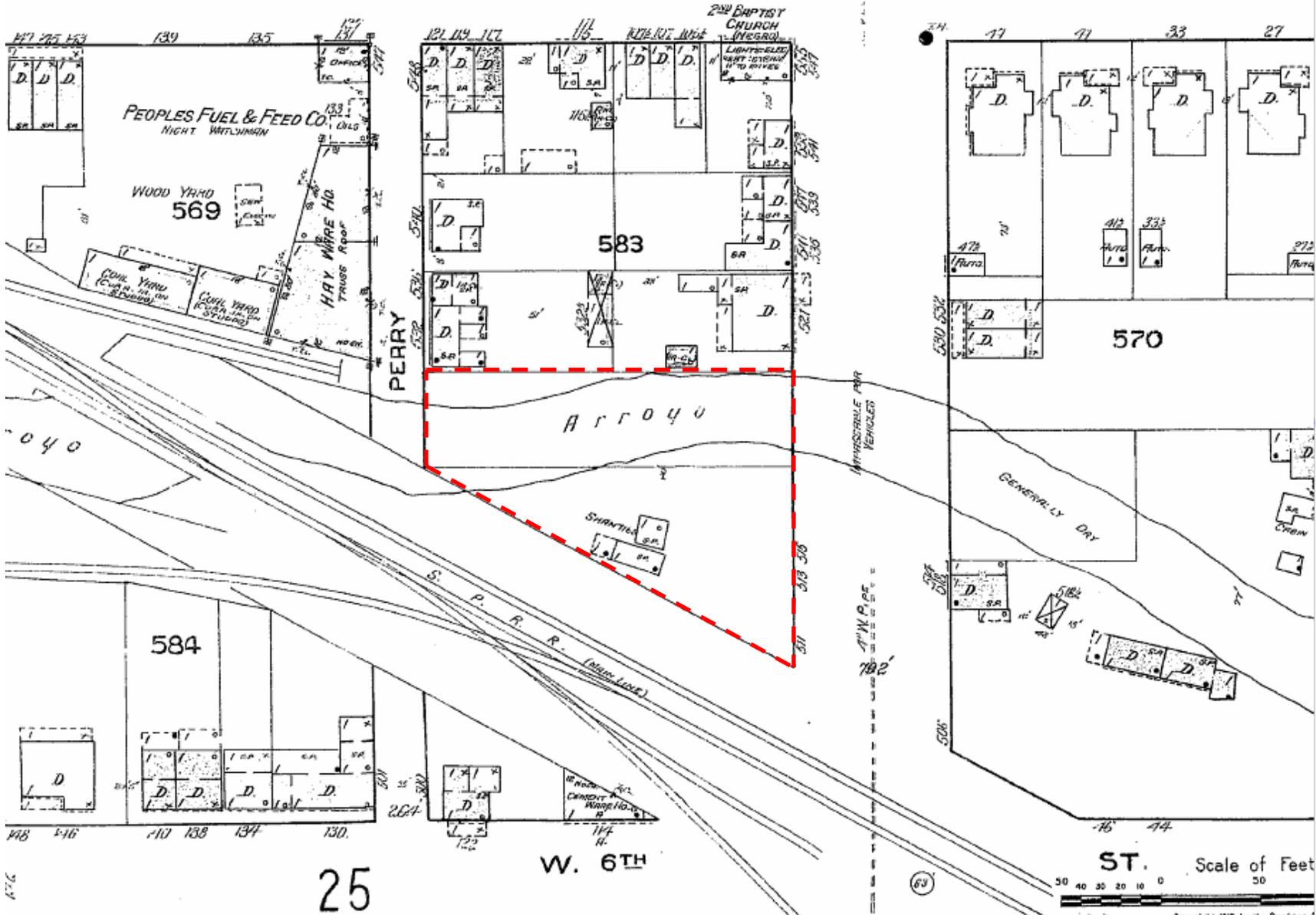
APPENDIX F
SANBORN MAPS



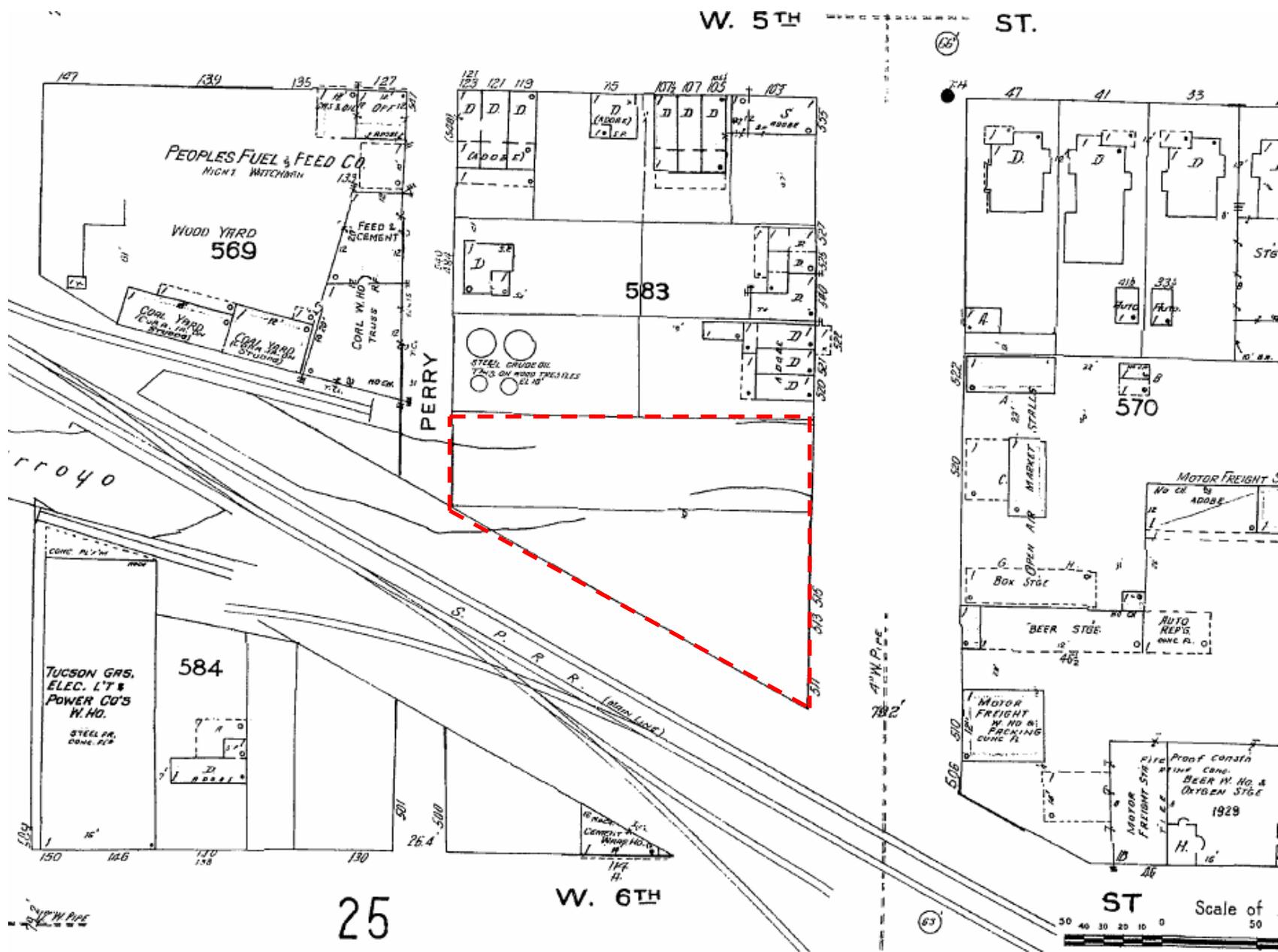
1876

W. 5TH ST.

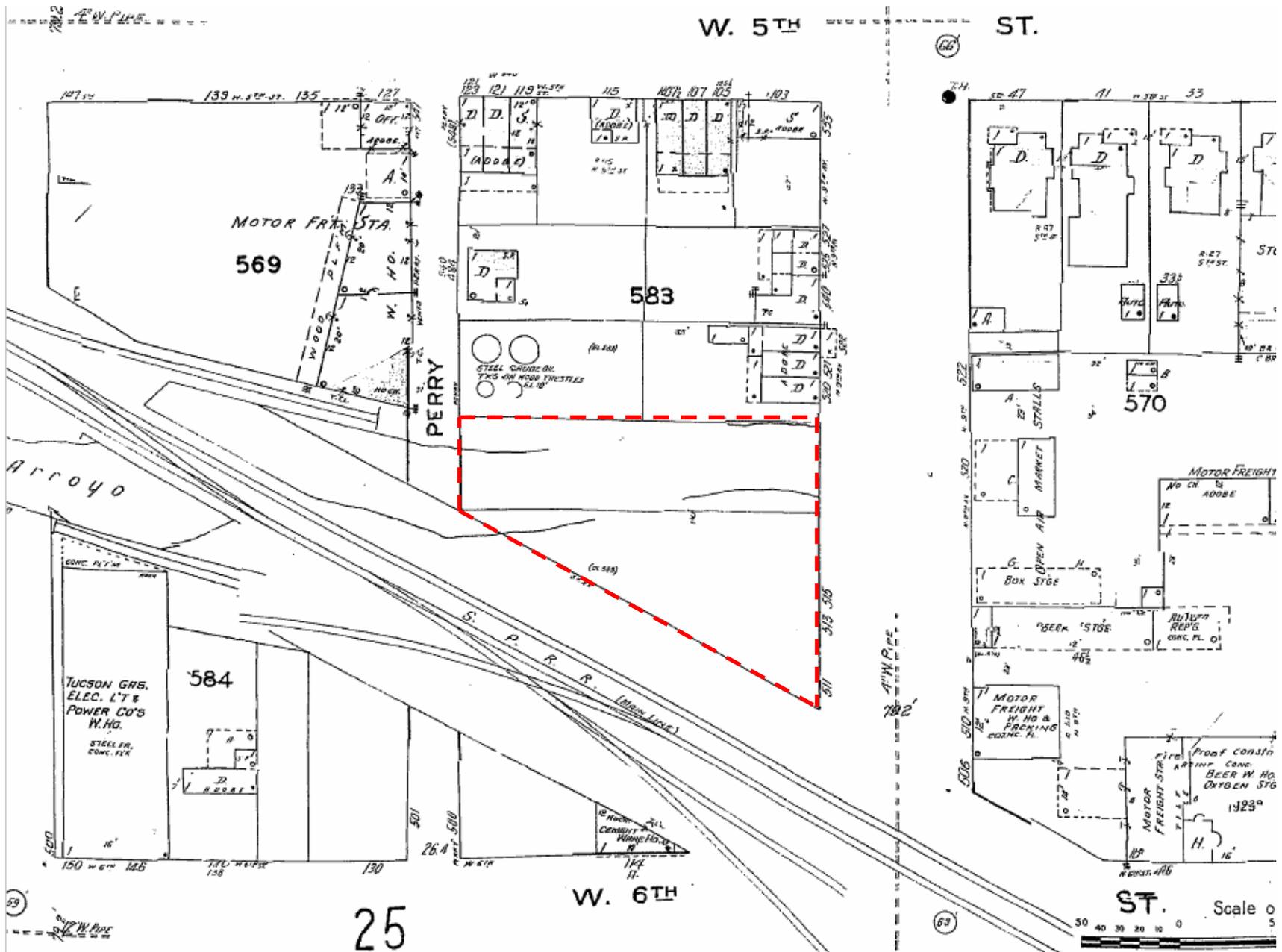
(66)



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SANBORN MAP - 1947 (revised from 1919 map and reprinted in 1948)



APPENDIX G
ALLANDS HISTORICAL TITLE REPORT



Allands

14947 W. Piccadilly Road, Goodyear, AZ 85395 • Phone: 623-535-7800 • Fax: 623-535-7900
www.allands.com • e-mail: sharon@allands.com

Historical Title and Environmental Research

HISTORICAL TITLE REPORT

YOUR FILE NO: 207028.04

ALLANDS FILE NO: 2008-06-033T

Date of Report: June 15, 2008

Title Plant Date***: June 8, 2008

***The Title Plant Date reflects the most current data made available by the information sources used at the time the research was performed.

ALLANDS hereby reports a Historical Title Report to the land described below, subject to the items as shown in Schedule B. This is a historical title report ONLY and is neither a guarantee of title, a commitment to insure or a policy of title insurance. Allands is not responsible for errors in the available records. The total liability is limited to the fee paid for this report. This is a confidential, privileged and protected document for the use of SCS Engineers.

1. Title to the estate or interest covered by this report is vested in: THE STATE OF ARIZONA, BY AND THROUGH ITS DEPARTMENT OF TRANSPORTATION
2. By virtue of that certain chain of title attached.
3. The land referred to in this report is located in Pima County, Arizona, described as follows:

Assessor's No.: 117-04-194

SEE LEGAL DESCRIPTION ATTACHED

SCHEDULE B

No Leases, VEMUR'S, DEUR'S; Environmental Liens, or activity and use limitations, if any, were found currently recorded against the property as searched at the subject county recorders office. ***

*** A.R.S. 49-152. This states that the Director of the Arizona Department of Environmental Quality shall allow property owners, who have voluntarily elected to remediate their property for nonresidential uses, to record in the applicable county recorders office a VEMUR limiting, by legal description, the area necessary to protect public health and the environment to nonresidential uses if contamination remains on the property at or above certain levels. In accordance with Arizona Administrative Code (A.A.C.) R18-7-201 et. Seq., a Declaration of Environmental Use Restriction (DEUR) is a voluntary notice to deed which restricts the use of a property to non-residential use. Effective July 18, 2000, the Declaration of Environmental Use Restriction (DEUR) replaced the Voluntary Environmental Mitigation Use Restriction (VEMUR) as a restrictive use covenant.

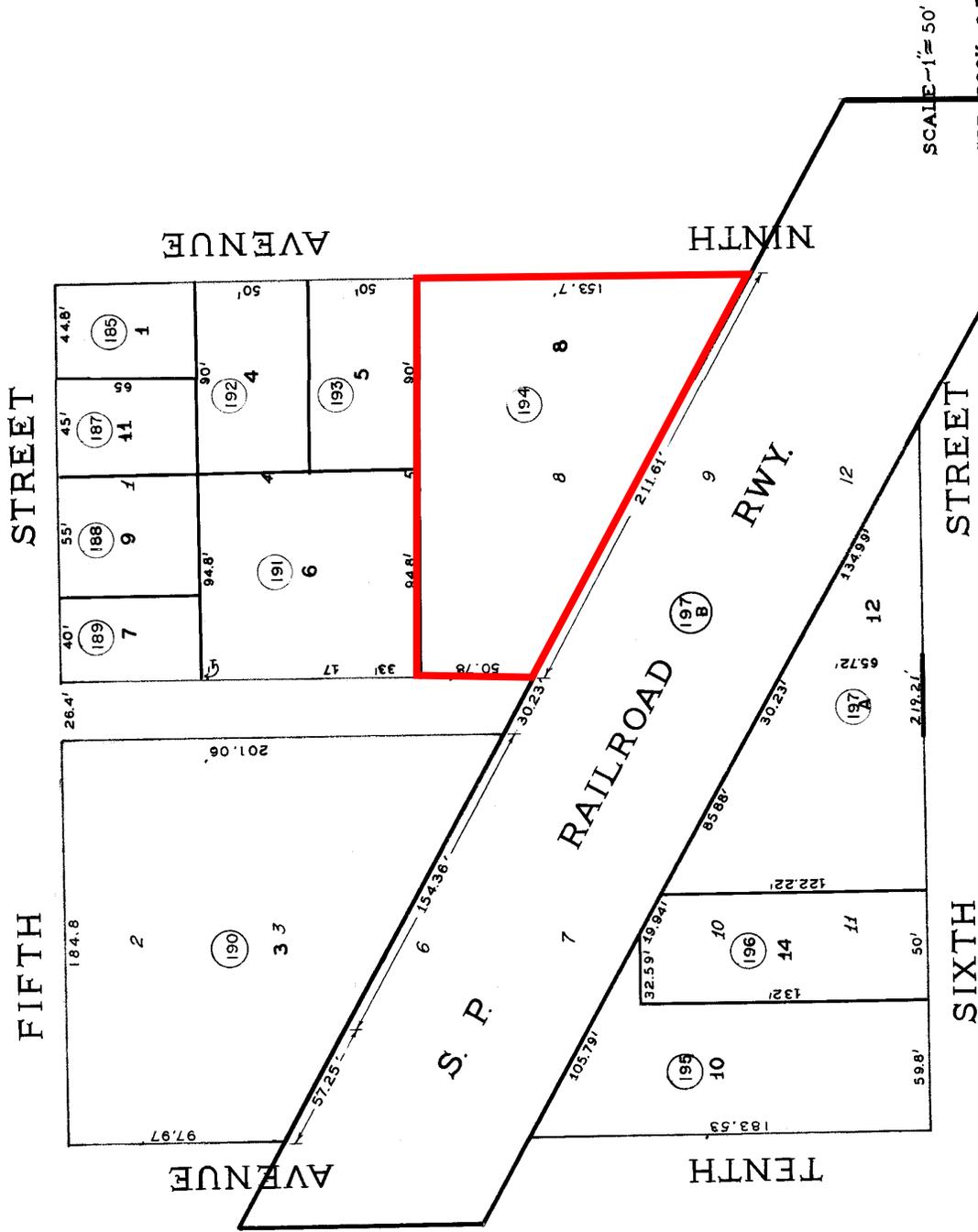
CHAIN OF TITLE

1. Deed from Julia F. Bartlett to Edwin B. Bartlett, recorded 3-20-1939 in Book 218 of Deeds, page 319.
2. Deed from Edwin B. Bartlett to L. A. Romaine and Lillian M. Romaine, his wife, recorded 10-25-44 in Book 272 of Deeds, page 50.
3. Deed from L. A. Romaine and Lillian M., his wife to Bertha M. Kavanaugh and Barbara K. Downey, co-trustees under the last will and testament of Don A. Kavanaugh, deceased, recorded 3-22-56 in Docket 963, page 363.
4. Deed from Bertha M. Kavanaugh and Barbara K. Downey, co-trustees under the last will and testament of Don A. Kavanaugh, deceased, to Bruce B. Dixon and Clementine A. Dixon, his wife, dated 6-23-60, recorded 7-8-60 in Docket 1635, page 443.
5. Order of Immediate Possession vs. Bruce B. Dixon and Clementine A. Dixon, his wife, awarding property to the state of Arizona, by and through its Department of Transportation, dated 1-7-87, recorded 2-11-87 in Docket 7970, page 865.

ASSESSOR'S RECORD MAP

Block 56, City of Tucson

117-04
12/20



SCALE - 1" = 50'

SEE BOOK 3, PAGE 74, M & P.
1975



Pima County Department of Transportation

Geographic Information Services Division

Parcel 117-04-1940

Read the [Disclaimer](#). Information on this page is **unofficial**.

Mail name and address	Legal description
STATE OF ARIZONA 00000	TUCSON S2 LOT 5 & THAT PTN LOT 8 & 9 LYG N & E SP RR BLK 56

Situs (property) address

[\(About situs addresses\)](#)

Address sources

Street Address	Jurisdiction	Permits	GIS	Postal City	Zip Code	
515 N 9TH AV	TUCSON	✓	✓	TUCSON	85705	<input type="button" value="ZIP+4 Lookup"/>

Additional information for this parcel

- [Assessor Parcel Detail](#) for tax year 2009 from the [Pima County Assessor's Office](#). Also see [Assessor Record Maps](#).
- [Real Estate Property Tax Inquiry](#) from the [Pima County Treasurers's Office](#).
- **Recorder's Information** from the [Pima County Recorder's Office](#)
 - [Recorded Documents](#) for Docket 7970, Page 865.
 - [Voter Precinct and Districts](#)
- [Subdivision Plat Map](#) for Book 3, Page 71.
- Pima County [Sanitary Sewer Connection Search](#) and [Connection Records Overview](#).
- [Permits](#) (Ignore Back button. Dismiss new window after viewing.) from [Pima County Development Services](#).
- [Development Activity Records](#) (permit, plat, rezoning) from City of Tucson DSD [Property Research Online](#).
- [Section Information and Maps](#) for Township 14S, Range 13E, Section 12

- **Floodplain Information:** City of Tucson jurisdiction. See City of Tucson [Development Services Site Reviews](#) or call (520) 791-5609.
- **Zoom to maps** of the parcel's area:

 <ul style="list-style-type: none"> • Main map • Orthophoto map • Sanitary Sewer map 	 <p>Oblique aerial photo</p>	 <p> <input checked="" type="checkbox"/> Parcel marker <input type="checkbox"/> Add markers? <input type="checkbox"/> Add traffic? </p> <p>Google Maps</p> <p>Pick "Satellite" for photo. Help</p>	<p> Area Map</p> <p> Area Map</p> <p> Area Map</p> <p> Area Map</p>
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- **Parcel attributes derived from GIS data or by [GIS overlay analysis](#):**
This information is inferred. It does not come from parcel records. **Accuracy is limited to that of the underlying GIS parcel data.** All data subject to this [disclaimer](#).

Parcel centroid coordinates	Approximately 32.228274 degrees latitude, -110.973659 degrees longitude.
Parcel area	<p>This is only an estimate from GIS data. The Subdivision Plat Map may also specify parcel area. See Finding Parcel Areas.</p> <hr/> Approximately 0.45 acres or 19,484 square feet.

1 **ROBERT C. STUBBS & ASSOCIATES, P.C.**
 2 **ATTORNEYS AND COUNSELORS AT LAW**
 3 **340 NORTH MARLBOROUGH**
POST OFFICE BOX 5000
TUCSON, ARIZONA 85702
(520) 623-5400

17 JAN 9 1987
 [Handwritten signature]

4 PIMA COUNTY COMPUTER NO.

5 Attorneys for Defendants

6 IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

7 IN AND FOR THE COUNTY OF PIMA

RECEIVED

8 STATE OF ARIZONA, ex rel.,)
 9 CHARLES L. MILLER, Director,)
 Department of Transportation,)

JAN 12 1987

10 Plaintiff,)

ATTORNEY GENERAL
TRANSPORTATION DIVISION

11 v.)

No. 236781
Eminent Domain

12 TUCSON ASSOCIATES LIMITED)
 13 PARTNERSHIP, an Arizona Limited)
 Partnership; CLEMENTINE A. DIXON,)
 14 a widow, as her sole and separate)
 property; CITY OF TUCSON; DON'S)
 15 ARIZONA AUTOPARIS, INC., an)
 Arizona Corporation; PIMA COUNTY)
 16 TREASURER,)

STIPULATION FOR IMMEDIATE
POSSESSION AND WITHDRAWAL
OF FUNDS AND ORDER

(Judge Michael Brown)

17 Defendant.)

18 STIPULATION

19 Plaintiff and Defendants undersigned, personally or
20 through their respective counsel, stipulate as follows:

21 1. That the parcel of real property described in
22 Exhibit A attached hereto and incorporated herein, is required by
23 plaintiff for a necessary and proper public use, which necessity
24 and use shall not be an issue at the trial of this action.

25 2. A separate Order for Possession in the substance of
26 which follows may be entered by the Court:

7970 865

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
840 NORTH MAIN AVENUE
POST OFFICE BOX 80847
TUCSON, ARIZONA 85703

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Upon stipulation of the parties, IT IS ORDERED Plaintiff shall be entitled to take possession of the real property described in Exhibit A, attached hereto and incorporated herein, and any improvements located thereon which are being condemned to use for highway purposes upon the deposit with the Clerk of this Court of a cash deposit in the amount of (Ninety Four Thousand Dollars and No/100 Cents) (\$94,000.00).

3. That Defendant Tucson Associates Limited Partnership, an Arizona Limited Partnership claims a fee simple interest in the properties which are the subject of this action and represents and indemnifies said interest by that certain instrument entitled "Indemnitor's Bond" which is marked Exhibit B and is attached hereto and incorporated herein for all purposes.

4. That Defendant Don's Arizona Autoparks Inc., an Arizona corporation claims no interest in the properties which are the subject of this action.

5. That Defendant Clementine A. Dixon, a widow, as her sole and separate property claims a mortgagee's interest under that certain mortgage recorded May 2, 1978 in Docket 5767, page 840, in the properties which are the subject of this action.

6. That Defendant Pima County Treasurer claims an interest in the properties which are the subject of this action as the result of taxes due and owing on parcel Nos. 11704193 and 11704194.

7. That Defendant City of Tucson claims no interest in the properties which are the subject of this action as the result of that certain culvert easement recorded February 7, 1925 in Docket 99, page 530.

1 8. That out of the cash deposit which the Plaintiff
2 will deposit with the Clerk of this Court, pursuant to the
3 Court's order allowing Plaintiff to take possession of this
4 property, Mr. Robert C. Stubbs, attorney for Tucson Associates
5 Limited Partnership and Don's Arizona Autoparks, Inc., shall be
6 entitled to withdraw the total sum of \$94,000 from said cash
7 deposit, to be distributed as follows:

8 (A) Upon receipt of said sum of Ninety Four
9 Thousand Dollars and No/100 Cents (\$94,000.00), Mr. Robert C.
10 Stubbs shall satisfy the outstanding principle and interest
11 amount owing, as of the day of said receipt, to Defendant
12 Clementine A. Dixon, under that certain mortgage recorded May 2,
13 1978 in Docket 5767, page 840, and shall obtain a copy of an
14 appropriate Deed of Release and Reconveyance for filing in this
15 cause.

16 (B) Upon receipt of said sum of Ninety Four
17 Thousand Dollars and No/100 Cents (\$94,000.00), Mr. Robert C.
18 Stubbs shall further satisfy the outstanding taxes, including any
19 interest and penalties, owing to the Pima County Treasurer in
20 regard to parcel nos. 11704193 and 11704194.

21 (C) That the balance of said sum of Ninety Four
22 Thousand Dollars and No/100 Cents (\$94,000.00), remaining after
23 satisfaction of the above noted interests shall be paid by Mr.
24 Robert C. Stubbs to Tucson Associates Limited Partnership.
25 Payment of the sums set forth in paragraphs 8AC above shall
26 constitute part of the just compensation which may be due to the

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
340 NORTH MAIN AVENUE
POST OFFICE BOX 80847
TUCSON, ARIZONA 85703

1 Defendant Tucson Associates Limited Partnership in this action.

2 9. The rights of withdrawal set forth above shall not
3 accrue until the date Plaintiff makes such deposit.

4 10. That, upon withdrawal of said monies, the above
5 Defendants herein shall not be entitled to interest on the sum
6 withdrawn, all pursuant to A.R.S. §121116, as amended, and 12-
7 1123, as amended.

8 11. That if the compensation and damages finally
9 awarded in this action exceed the amount of money withdrawn
10 pursuant to this Stipulation and Order, interest required to be
11 paid on the amount of monies that is in excess of the money
12 withdrawn shall commence on the date Plaintiff is entitled to
13 take physical possession of the real property sought to be
14 condemned.

15 12. That if the compensation and damages finally
16 awarded in this action are less than the amount of money
17 withdrawn pursuant to this Stipulation and Order, the difference
18 will be immediately repaid to the State of Arizona upon demand by
19 Tucson Associates Limited Partnership.

20 13. That this Stipulation does not constitute an
21 admission by any party as to the value of the property involved
22 or shall this Stipulation or Order be introduced or used as
23 evidence by any party at any trial of this cause.

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...

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
340 NORTH MAIN AVENUE
POST OFFICE BOX 80847
TUCSON, ARIZONA 85703

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Respectfully submitted this 7 day of December, 1986.

ROBERT K. CORBIN
Attorney General

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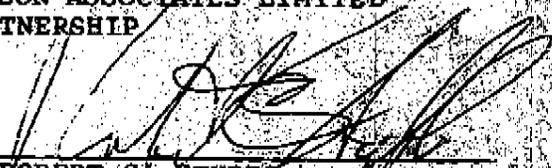
Respectfully submitted this 7 day of December, 1987.

ROBERT K. CORBIN
Attorney General


WILLIAM S. JAMESON, JR.
Assistant Attorney General
Transportation Division
1275 W. Washington, Room 160
Phoenix, Arizona 85007

TUCSON ASSOCIATES LIMITED
PARTNERSHIP

DATED: 1-7-87

By: 
ROBERT C. STUBBS
Robert C. Stubbs & Assoc. P.C.
340 N. Main Avenue
P. O. Box 50547
Tucson, Arizona 85703

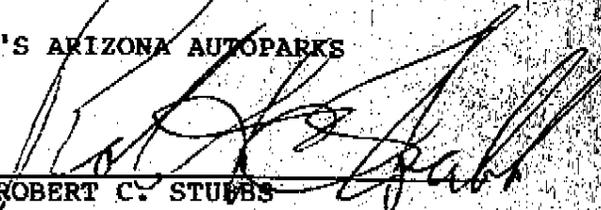
CITY OF TUCSON

DATED: 7 Jan 1987

By: 
TOBIN ROSEN
Assistant City Attorney
P. O. Box 27210
Tucson, Arizona 85726

DON'S ARIZONA AUTOPARKS

DATED: 1-7-87

By: 
ROBERT C. STUBBS
Robert C. Stubbs & Assoc., P.C.
340 N. Main Avenue
P. O. Box 50547
Tucson, Arizona 85703

...

7970 869

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
340 NORTH MAIN AVENUE
POST OFFICE BOX 50547
TUCSON, ARIZONA 85703

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PIMA COUNTY TREASURER

DATED: January 7, 1987

By: John R. Neubaer
 JOHN R. NEUBAER
 Deputy County Attorney
 57 N. Church Avenue
 Tucson, Arizona 85701

DATED: 12-30-86

Clementine A. Dixon
 CLEMENTINE A. DIXON
 825 W. Safari Drive
 Tucson, Arizona 85704

ROBERT C. STUBBS & ASSOCIATES, P.C.
 ATTORNEYS AND COUNSELORS AT LAW
 340 NORTH MAIN AVENUE
 POST OFFICE BOX 80647
 TUCSON, ARIZONA 85703

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ORDER

Pursuant to Stipulation, the Court finds that the property described in Exhibit A, attached hereto and incorporated herein, is required by the Plaintiff for a necessary and public use and that these proceedings have been commenced in eminent domain according to law, and good cause appearing.

IT IS HEREBY ORDERED;

... Plaintiff shall be entitled to take possession of the real property described in Exhibit A attached hereto and incorporated herein, and any improvements located thereon which are being condemned to use for highway purposes upon the deposit with the Clerk of this Court of a cash deposit in the amount of Ninety Four Thousand Dollars and No/100 Cents (\$94,000.00)

1. That out of the cash deposit which the Plaintiff will deposit with the Clerk of this Court, pursuant to the Court's Order allowing Plaintiff to take possession of this property, Mr. Robert C. Stubbs, attorney for Tucson Associates Limited and Don's Arizona Autoparks, Inc., shall be entitled to withdraw the total sum of Ninety Four Thousand Dollars and No/100 Cents (\$94,000.00) from said cash deposit, to be distributed as follows:

(A) Upon receipt of said sum of Ninety Four Thousand Dollars and No/100 Cents (\$94,000.00) Mr. Robert C. Stubbs shall satisfy the outstanding principle and interest amount owing as of the day fo said receipt to Defendant Clementine A. Dixon, under that certain mortgage recorded May 2, 1978 in Docket 5767, page 840 and shall obtain a copy of an

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
540 NORTH MAIN AVENUE
POST OFFICE BOX 69847
TUCSON, ARIZONA 85703

1 appropriate Deed of Release and Reconveyance for filing in this
2 cause.

3 (B) Upon receipt of said sum of Ninety Four
4 Thousand Dollars and No/100 Cents (\$94,000.00), Mr. Robert C.
5 Stubbs shall further satisfy the outstanding taxes, including any
6 interest and penalties, owing to the Pima County Treasurer in
7 regard to Parcel Nos. 11704193 and 11704194.

8 That the balance of said sum of Ninety Four Thousand
9 Dollars and No/100 Cents (\$94,000.00) remaining after
10 satisfaction of the above noted interests shall be paid by Mr.
11 Robert C. Stubbs to Tucson Associates Limited Partnership.

12 Payment of the sums set forth in paragraphs 1A-B above shall
13 constitute part of the just compensation which may be due to the
14 Defendant Tucson Associates Limited Partnership in this action.

15 The rights of withdrawal set forth above shall not
16 accrue until the date Plaintiff makes such deposit.

17 That, upon withdrawal of said monies, the above
18 defendants herein shall not be entitled to interest on the sum
19 withdrawn, all pursuant to A.R.S. §121116, as amended, and 12-
20 1123, as amended.

21 That if the compensation and damages finally awarded in
22 this action exceed the amount of money withdrawn pursuant to this
23 Stipulation and Order, interest required to be paid on the amount
24 of monies that is in excess of the money withdrawn shall commence
25 on the date plaintiff is entitled to take physical possession of
26 the real property sought to be condemned.

ROBERT C. STUBBS & ASSOCIATES, P.C.
ATTORNEYS AND COUNSELORS AT LAW
340 NORTH MAIN AVENUE
POST OFFICE BOX 92847
TUCSON, ARIZONA 85703

1 That if the compensation and damages finally awarded in
 2 this action are less than the amount of money withdrawn pursuant
 3 to this Stipulation and Order, the difference will be immediately
 4 repaid to the State of Arizona upon demand by Tucson Associates
 5 Limited Partnership.

6 That this Stipulation does not constitute an admission
 7 by any party as to the value of the property involved or shall
 8 this Stipulation or Order be introduced or used as evidence by
 9 any party at any trial of this cause.

10 DONE IN OPEN COURT this 9 day of January, 1987.

~~_____

 _____~~

JUDGE OF THE SUPERIOR COURT

ROBERT C. STURNA & ASSOCIATES, P.C.
 ATTORNEYS AND COUNSELORS AT LAW
 840 NORTH MAIN AVENUE
 PO BOX 8980
 TUCSON, ARIZONA 85703

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APPENDIX H
LIMITED SOIL ASSESSMENT REPORT



June 13, 2008

Ms. Lynne Birkinbine
Mr. Dave Barazza
City of Tucson Environmental Services
100 North Stone Ave. 2nd Floor
Tucson, Arizona 85701

**Re: Report of Findings:
Limited Soil Assessment at 515 North 9th Avenue, Tucson, Arizona 85705
(EEC Project 206100.47)**

Dear Ms. Birkinbine and Mr. Barazza:

Per your request, Engineering and Environmental Consultants, Inc. (EEC) is pleased to provide the City of Tucson Environmental Services (ES) with a report on EEC's limited assessment of stained soil at the above-referenced site (Pima County Assessor's Parcel 117-04-1940) as shown in Attachment 1.

Sample collection was conducted on June 2, 2008, following excavation activities at the site (by others) which revealed the stained soil along the eastern boundary of the site, adjacent to 9th Avenue.

Sample Collection

EEC collected five soil samples from the excavated areas and one soil sample from a remote area of the site for use as a background sample. The samples submitted for VOC analyses were collected with a soil sampling syringe from a single location near the middle of the base of the excavation. The samples submitted for other analyses (see below) were composites from four equally spaced subsamples collected from the base of each respective excavation. The aerial photograph in Attachment 1 shows the locations of the five sampled excavations as well as the location of the background sample (UPRR-6).

Soil samples were collected in laboratory supplied sample containers. Following collection, the samples were labeled with a sample ID, the time and date, and the initials

Ms. Lynne Birkinbine
Mr. Dave Barazza
515 North 9th Avenue
Limited Soil Investigation
June 13, 2008

of the sampler. The samples were then placed in a plastic bag, and stored on ice in an ice chest cooled to approximately 4 degrees Celsius pending delivery to the laboratory.

Laboratory Analyses

The samples were delivered under chain-of-custody to Columbia Analytical Services, the City of Tucson's contract laboratory, for analysis for volatile organic compounds (VOCs) by EPA Method 8260, for polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, for C₁₀-C₃₂ hydrocarbons by ADHS analytical method 8015AZR1, for the 8 Resource Conservation and Recovery Act (RCRA) metals by analytical methods 6010B and 7471A.

All samples were delivered, extracted, and analyzed within the required sample holding times.

Laboratory Results

The laboratory did not detect VOCs above method reporting limits in any of the samples collected in this investigation.

Seven PAHs were reported in sample UPRR-5 and one PAH (Benzo[a]pyrene) was reported in the background sample (UPRR-6). All detections of PAHs were below the 10⁻⁵ residential ADEQ Soil Remediation Level (SRL). Benz[a]anthracene and Benzo[a]pyrene were, however, above the 2007 10⁻⁶ residential SRL in sample UPRR-5. The 10⁻⁶ standard is applicable to properties that are used for, or have the planned use for, a day care facility or school.

Various metals were reported in each of the samples collected in this investigation. Lead was reported at concentrations above the residential SRL of 400 mg/Kg in samples UPRR-1 and UPRR-3 and above the non-residential SRL of 800 mg/Kg in sample UPRR-2. Arsenic was also detected above the residential SRL of 10 mg/Kg in samples UPRR-1, UPRR-2, and UPRR-3.

Low concentrations of hydrocarbons were reported in samples UPRR-1, UPRR-2, UPRR-3, and UPRR-5. No SRL currently exists for hydrocarbons.

The analytes that the laboratory reported in detectable concentrations in this investigation are summarized in Table 1; a copy of the laboratory report is in Attachment 2.

Ms. Lynne Birkinbine
 Mr. Dave Barazza
 515 North 9th Avenue
 Limited Soil Investigation
 June 13, 2008

**TABLE 1
 LABORATORY DETECTIONS
 (ALL RESULTS IN MG/KG)**

Analyte	UPRR-1	UPRR-2	UPRR-3	UPRR-4	UPRR-5	UPRR-6	rSRL
Benz[a]anthracene	ND	ND	ND	ND	0.82*	ND	6.9
Benzo[a]pyrene	ND	ND	ND	ND	0.34*	0.055	0.69
Benzo[b]fluoranthene	ND	ND	ND	ND	0.48	ND	6.9
Chrysene	ND	ND	ND	ND	1.7	ND	680
Fluoranthene	ND	ND	ND	ND	5.1	ND	2300
Indeno[1,2,3-cd]pyrene	ND	ND	ND	ND	0.25	ND	6.9
Pyrene	ND	ND	ND	ND	3.2	ND	2300
Arsenic	22	51	29	5.2	5.5	ND	10
Barium	110	180	140	86	63	36	15,000
Cadmium	1.2	4.9	2.2	ND	ND	6.8	39
Chromium	9.3	10	8.8	7.2	6.5	7.7	30
Lead	480	1400	680	94	91	6.8	400
Mercury	ND	0.29	0.30	0.093	0.10	ND	6.1
C10-C32 Hydrocarbons	130	354	230	ND	130	ND	NS

ND – No Detection

NS – No Standard

*Exceeds 2007 10^{-6} SRL for day cares or schools

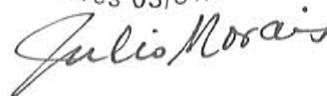
Results in **bold** exceed the residential SRL

EEC appreciates the opportunity to assist ES with this project. Should you have any questions or require additional information, please contact me at 321-4625 (office) or 488-9206 (cell).

Respectfully submitted,
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.

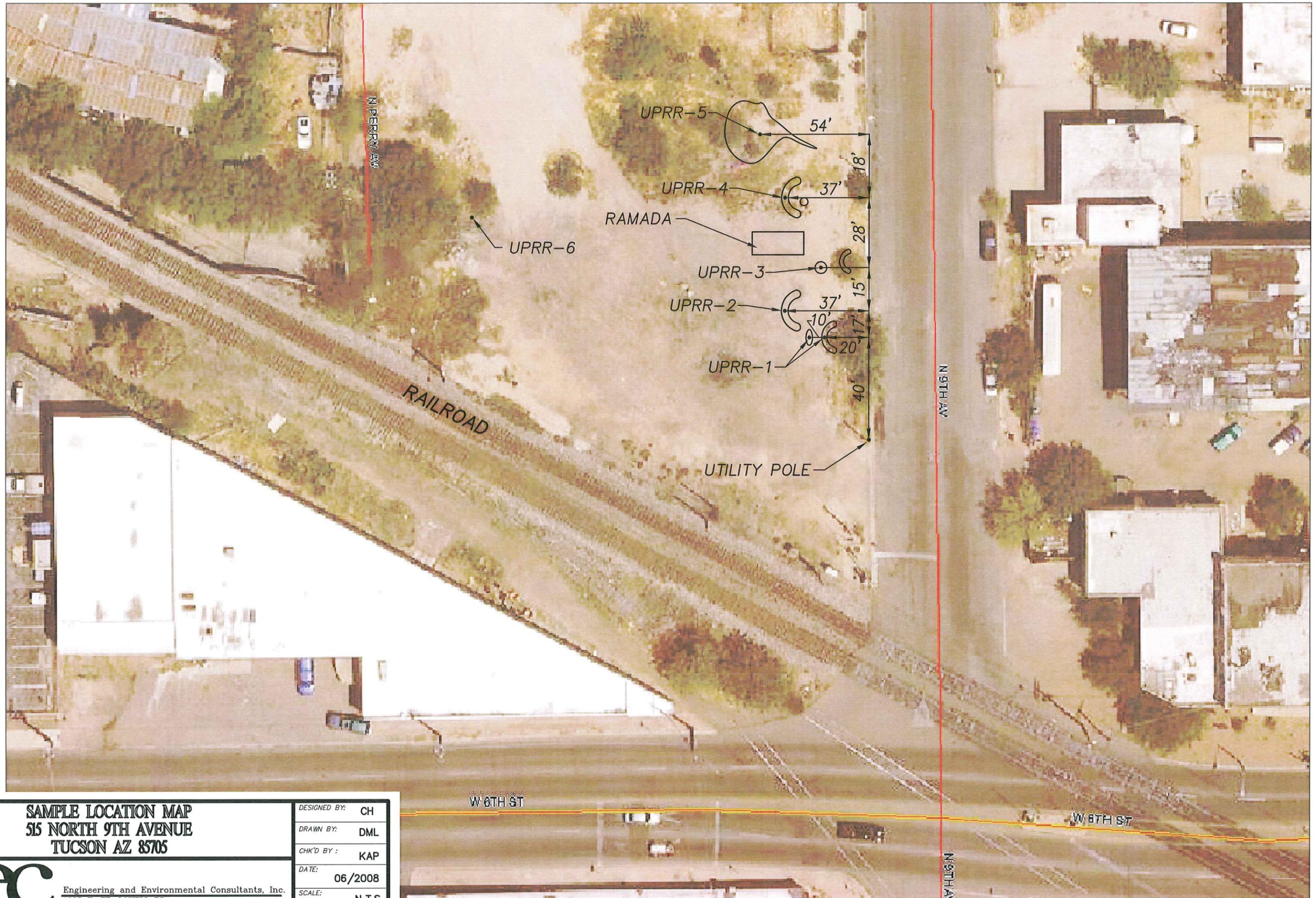


Kevin A. Pierce
 Project Manager, Geohydrologist

Ms. Lynne Birkinbine
Mr. Dave Barazza
515 North 9th Avenue
Limited Soil Investigation
June 13, 2008

ATTACHMENT 1:
AERIAL PHOTOGRAPH



SAMPLE LOCATION MAP
515 NORTH 9TH AVENUE
TUCSON AZ 85705

DESIGNED BY:	CH
DRAWN BY:	DML
CHK'D BY:	KAP
DATE:	06/2008
SCALE:	N.T.S.
HORIZ.	N/A
VERT.	N/A



Engineering and Environmental Consultants, Inc.
 4625 E. FT. LOWELL RD.
 TUCSON, ARIZONA 85712 520-321-4625

Ms. Lynne Birkinbine
Mr. Dave Barazza
515 North 9th Avenue
Limited Soil Investigation
June 13, 2008

ATTACHMENT 2:
LABORATORY REPORT

Amended Report

June 12, 2008

Kevin Pierce
Environmental & Engineering Consultants, Inc.
4625 E. Ft. Lowell Rd.
Tucson, AZ 85712

RE: 9th Ave + 6th St.

Work Order No.: 08060012

Dear Kevin,

Columbia Analytical Services, Inc. received 6 samples on 6/02/08. The results of the analyses are presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,



Marcela Hodge
Project Manager

ADHS License No. AZ0133/AZ0667/AZM133



Client: Environmental & Engineering Consultants, I
Work Order: 08060012
Project Name: 9th Ave + 6th St.
Project Number:

Date Printed: 12-Jun-08

Case Narrative

Results are reported on a wet weight basis unless dry-correction is denoted in the units field on the analytical report ("mg/kg-dry").

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 3.0 9/20/2007.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.

Analytical Comments for Method SW8260B: N1 Sample 08060012-01, and 06, Batch 541: Encore sampler contained less than 5 grams of sample.

CLIENT: Environmental & Engineering Consultants, I
Project Name: 9th Ave + 6th St.
Project Number:
Work Order: 08060012
Date Received: 02-Jun-08

Case Narrative
Data Qualifiers

One or more of the following data qualifiers may be associated with your analytical and/or quality control data.

- C8 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000C, the lower value was reported as there was no evidence of chromatographic problems.
- D1 Sample required dilution due to matrix.
- D2 Sample required dilution due to high concentration of target analyte.
- M1 Matrix spike recovery was high, the associated blank spike recovery was acceptable.
- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- N1 See case narrative.
- R2 RPD/RSD exceeded the laboratory acceptance limit.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

CLIENT: Environmental & Engineering Consultants, I
Project Name: 9th Ave + 6th St.
Project Number:
Work Order: 08060012
Date Received: 02-Jun-08

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Columbia Analytical Services can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.

CLIENT: Environmental & Engineering Consultants, Inc.
Project Name: 9th Ave + 6th St.
Project Number:
Work Order: 08060012
Date Received: 02-Jun-08

References

Columbia Analytical Services, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, July 2005.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement I: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996. Update IIIA, June 1999; and Update IIIB July 2005.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600/4-81-045, September 1982.

EPA Method 9013A, Cyanide Extraction Procedure for Solids and Oils. (Rev, 1 November 2004)

EPA Method 5035A, Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples (draft rev. 1 July 2002)

EPA Method 5030C, Purge-and-Trap for Aqueous Samples (rev.3 May 2003)

Office of Ground Water and Drinking Water Technical Support Center, EPA 815-R-05-004, Manual for Certification of Drinking Water, (5th Edition January 2005)

CLIENT: Environmental & Engineering Consultants, I
Project Name: 9th Ave + 6th St.
Project Number:
Work Order: 08060012

Work Order Sample Summary

Client Sample ID	Lab Sample ID	Test Code	Collection Date	Date Received
UPRR-1	08060012-01A	SW8260B	6/02/08 09:40 AM	6/02/08 12:40 PM
	08060012-01B	EPA 8310	6/02/08 09:40 AM	6/02/08 12:40 PM
		SW6010B	6/02/08 09:40 AM	6/02/08 12:40 PM
		SW7471A	6/02/08 09:40 AM	6/02/08 12:40 PM
UPRR-2	08060012-01C	8015AZ	6/02/08 09:40 AM	6/02/08 12:40 PM
	08060012-02A	SW8260B	6/02/08 09:55 AM	6/02/08 12:40 PM
		EPA 8310	6/02/08 09:55 AM	6/02/08 12:40 PM
		SW6010B	6/02/08 09:55 AM	6/02/08 12:40 PM
UPRR-3	08060012-02B	SW7471A	6/02/08 09:55 AM	6/02/08 12:40 PM
	08060012-02C	8015AZ	6/02/08 09:55 AM	6/02/08 12:40 PM
		SW8260B	6/02/08 10:15 AM	6/02/08 12:40 PM
		EPA 8310	6/02/08 10:15 AM	6/02/08 12:40 PM
UPRR-4	08060012-03B	SW6010B	6/02/08 10:15 AM	6/02/08 12:40 PM
	08060012-03A	SW7471A	6/02/08 10:15 AM	6/02/08 12:40 PM
		8015AZ	6/02/08 10:15 AM	6/02/08 12:40 PM
		SW8260B	6/02/08 10:25 AM	6/02/08 12:40 PM
UPRR-5	08060012-04B	EPA 8310	6/02/08 10:25 AM	6/02/08 12:40 PM
	08060012-04A	SW6010B	6/02/08 10:25 AM	6/02/08 12:40 PM
		SW7471A	6/02/08 10:25 AM	6/02/08 12:40 PM
		8015AZ	6/02/08 10:25 AM	6/02/08 12:40 PM
UPRR-6	08060012-04C	8015AZ	6/02/08 10:25 AM	6/02/08 12:40 PM
	08060012-05A	SW8260B	6/02/08 10:35 AM	6/02/08 12:40 PM
		EPA 8310	6/02/08 10:35 AM	6/02/08 12:40 PM
		SW6010B	6/02/08 10:35 AM	6/02/08 12:40 PM
UPRR-6	08060012-05B	SW7471A	6/02/08 10:35 AM	6/02/08 12:40 PM
	08060012-05C	8015AZ	6/02/08 10:35 AM	6/02/08 12:40 PM
		SW8260B	6/02/08 10:50 AM	6/02/08 12:40 PM
		EPA 8310	6/02/08 10:50 AM	6/02/08 12:40 PM
UPRR-6	08060012-06B	SW6010B	6/02/08 10:50 AM	6/02/08 12:40 PM
	08060012-06A	SW7471A	6/02/08 10:50 AM	6/02/08 12:40 PM
		8015AZ	6/02/08 10:50 AM	6/02/08 12:40 PM
08060012-06C	8015AZ	6/02/08 10:50 AM	6/02/08 12:40 PM	

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-01
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-1
Collection Date: 6/2/2008 9:40:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
<i>PREP METHOD: SW3541</i>						<i>Test Performed By: AZ0133</i>				
Acenaphthene	<8.0	8.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Acenaphthylene	<8.0	8.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Benzo[a]anthracene	<0.40	0.40	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Benzo[a]pyrene	<0.10	0.10	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Benzo[b]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Benzo[g,h,i]perylene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Benzo[k]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Chrysene	<0.60	0.60	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Dibenz[a,h]anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Fluorene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Indeno[1,2,3-cd]pyrene	<0.20	0.20	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Naphthalene	<1.0	1.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Phenanthrene	<4.0	4.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
Pyrene	<1.0	1.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
2-Chloroanthracene(Surrogate)	81	45-116		%REC	10	EPA 8310	6/2/08	6/4/08 10:50	MJB	527
<i>PREP METHOD: SW3050B</i>						<i>Test Performed By: AZ0133</i>				
Arsenic	22	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Barium	110	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Cadmium	1.2	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Chromium	9.3	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Lead	480	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:39	MDD	543
<i>PREP METHOD: SW7471A</i>						<i>Test Performed By: AZ0133</i>				
Mercury	<0.083	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
<i>PREP METHOD: SW5035</i>						<i>Test Performed By: AZ0133</i>				
Acetone	<1.8	1.8	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Benzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Bromobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Bromochloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Bromodichloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Bromoform	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Bromomethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
2-Butanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
n-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-01
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-1
Collection Date: 6/2/2008 9:40:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
tert-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Carbon disulfide	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Carbon tetrachloride	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Chlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Dibromochloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Chloroethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Chloroform	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Chloromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
2-Chlorotoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
4-Chlorotoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dibromo-3-chloropropane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dibromoethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Dibromomethane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,3-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,4-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Dichlorodifluoromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1-Dichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1-Dichloroethene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
cis-1,2-Dichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
trans-1,2-Dichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dichloropropane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,3-Dichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
2,2-Dichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1-Dichloropropene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
cis-1,3-Dichloropropene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
trans-1,3-Dichloropropene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Ethylbenzene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Hexachlorobutadiene	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
2-Hexanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Iodomethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Isopropylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
4-Isopropyltoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Methylene chloride	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
4-Methyl-2-pentanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Methyl tert-butyl ether	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Naphthalene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
n-Propylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Styrene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1,1,2-Tetrachloroethane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1,2,2-Tetrachloroethane	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-01
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-1
Collection Date: 6/2/2008 9:40:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Toluene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2,3-Trichlorobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2,4-Trichlorobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1,1-Trichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,1,2-Trichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Trichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Trichlorofluoromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2,3-Trichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2,4-Trimethylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,3,5-Trimethylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Vinyl acetate	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Vinyl chloride	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Xylenes, Total	<0.18	0.18	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
4-Bromofluorobenzene(Surrogate)	102	61-128		%REC	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
1,2-Dichloroethane-d4(Surrogate)	91	60-133		%REC	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Dibromofluoromethane(Surrogate)	86	60-132		%REC	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541
Toluene-d8(Surrogate)	104	60-132		%REC	1.2	SW8260B	6/3/08	6/3/08 17:28	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0667

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 16:56	KK	556
C10-C22 DRO	<30	30		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 16:56	KK	556
C22-C32 ORO	130	100		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 16:56	KK	556
o-Terphenyl(Surrogate)	93	70-130		%REC	1.0	8015AZ	6/5/08	6/5/08 16:56	KK	556

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-02
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-2
Collection Date: 6/2/2008 9:55:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
<i>PREP METHOD: SW3541</i>						<i>Test Performed By: AZ0133</i>				
Acenaphthene	<16	16	D1,V1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Acenaphthylene	<16	16	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Anthracene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Benz[a]anthracene	<0.80	0.80	D1,V1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Benzo[a]pyrene	<0.20	0.20	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Benzo[b]fluoranthene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Benzo[g,h,i]perylene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Benzo[k]fluoranthene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Chrysene	<1.2	1.2	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Dibenz[a,h]anthracene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Fluoranthene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Fluorene	<0.80	0.80	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Indeno[1,2,3-cd]pyrene	<0.40	0.40	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Naphthalene	<2.0	2.0	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Phenanthrene	<8.0	8.0	D1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
Pyrene	<2.0	2.0	D1,V1	mg/Kg	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
2-Chloroanthracene(Surrogate)	86	45-116		%REC	20	EPA 8310	6/2/08	6/4/08 11:22	MJB	527
<i>PREP METHOD: SW3050B</i>						<i>Test Performed By: AZ0133</i>				
Arsenic	51	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Barium	180	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Cadmium	4.9	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Chromium	10	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Lead	1400	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 14:55	MDD	543
<i>PREP METHOD: SW7471A</i>						<i>Test Performed By: AZ0133</i>				
Mercury	0.29	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
<i>PREP METHOD: SW5035</i>						<i>Test Performed By: AZ0133</i>				
Acetone	<1.3	1.3		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Benzene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Bromobenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Bromochloromethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Bromodichloromethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Bromoform	<0.085	0.085		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Bromomethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
2-Butanone	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
n-Butylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-02
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-2
Collection Date: 6/2/2008 9:55:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
tert-Butylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Carbon disulfide	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Carbon tetrachloride	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Chlorobenzene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Dibromochloromethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Chloroethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Chloroform	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Chloromethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
2-Chlorotoluene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
4-Chlorotoluene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dibromo-3-chloropropane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dibromoethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Dibromomethane	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dichlorobenzene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,3-Dichlorobenzene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,4-Dichlorobenzene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Dichlorodifluoromethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1-Dichloroethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dichloroethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1-Dichloroethene	<0.085	0.085		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
cis-1,2-Dichloroethene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
trans-1,2-Dichloroethene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dichloropropane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,3-Dichloropropane	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
2,2-Dichloropropane	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1-Dichloropropene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
cis-1,3-Dichloropropene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
trans-1,3-Dichloropropene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Ethylbenzene	<0.085	0.085		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Hexachlorobutadiene	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
2-Hexanone	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Iodomethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Isopropylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
4-Isopropyltoluene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Methylene chloride	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
4-Methyl-2-pentanone	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Methyl tert-butyl ether	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Naphthalene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
n-Propylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Styrene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1,1,2-Tetrachloroethane	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1,2,2-Tetrachloroethane	<0.085	0.085		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-02
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-2
Collection Date: 6/2/2008 9:55:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Toluene	<0.085	0.085		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2,3-Trichlorobenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2,4-Trichlorobenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1,1-Trichloroethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,1,2-Trichloroethane	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Trichloroethene	<0.042	0.042		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Trichlorofluoromethane	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2,3-Trichloropropane	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2,4-Trimethylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,3,5-Trimethylbenzene	<0.21	0.21		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Vinyl acetate	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Vinyl chloride	<0.42	0.42		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Xylenes, Total	<0.13	0.13		mg/Kg	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
4-Bromofluorobenzene(Surrogate)	99	61-128		%REC	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
1,2-Dichloroethane-d4(Surrogate)	89	60-133		%REC	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Dibromofluoromethane(Surrogate)	91	60-132		%REC	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541
Toluene-d8(Surrogate)	101	60-132		%REC	0.85	SW8260B	6/3/08	6/3/08 19:26	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0667

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 17:40	KK	556
C10-C22 DRO	44	30		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 17:40	KK	556
C22-C32 ORO	310	100		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 17:40	KK	556
o-Terphenyl(Surrogate)	94	70-130		%REC	1.0	8015AZ	6/5/08	6/5/08 17:40	KK	556



Date Printed 12-Jun-08

License No. AZM133/AZ0133

CLIENT: Environmental & Engineering Consultants, I
 Work Order: 08060012
 Lab ID: 08060012-03
 Project Name: 9th Ave + 6th St.
 Project Number:

Client Sample ID: UPRR-3
 Collection Date: 6/2/2008 10:15:00 AM
 Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
<i>PREP METHOD: SW3541</i>						<i>Test Performed By: AZ0133</i>				
Acenaphthene	<8.0	8.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Acenaphthylene	<8.0	8.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Benzo[a]anthracene	<0.40	0.40	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Benzo[a]pyrene	<0.10	0.10	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Benzo[b]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Benzo[g,h,i]perylene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Benzo[k]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Chrysene	<0.60	0.60	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Dibenz[a,h]anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Fluorene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Indeno[1,2,3-cd]pyrene	<0.20	0.20	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Naphthalene	<1.0	1.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Phenanthrene	<4.0	4.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
Pyrene	<1.0	1.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
2-Chloroanthracene(Surrogate)	70	45-116		%REC	10	EPA 8310	6/2/08	6/4/08 11:53	MJB	527
<i>PREP METHOD: SW3050B</i>						<i>Test Performed By: AZ0133</i>				
Arsenic	29	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Barium	140	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Cadmium	2.2	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Chromium	8.8	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Lead	680	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:00	MDD	543
<i>PREP METHOD: SW7471A</i>						<i>Test Performed By: AZ0133</i>				
Mercury	0.30	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
<i>PREP METHOD: SW5035</i>						<i>Test Performed By: AZ0133</i>				
Acetone	<1.5	1.5		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Benzene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Bromobenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Bromochloromethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Bromodichloromethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Bromoform	<0.098	0.098		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Bromomethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
2-Butanone	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
n-Butylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-03
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-3
Collection Date: 6/2/2008 10:15:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
tert-Butylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Carbon disulfide	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Carbon tetrachloride	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Chlorobenzene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Dibromochloromethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Chloroethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Chloroform	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Chloromethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
2-Chlorotoluene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
4-Chlorotoluene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dibromo-3-chloropropane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dibromoethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Dibromomethane	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dichlorobenzene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,3-Dichlorobenzene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,4-Dichlorobenzene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Dichlorodifluoromethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1-Dichloroethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dichloroethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1-Dichloroethene	<0.098	0.098		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
cis-1,2-Dichloroethene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
trans-1,2-Dichloroethene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dichloropropane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,3-Dichloropropane	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
2,2-Dichloropropane	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1-Dichloropropene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
cis-1,3-Dichloropropene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
trans-1,3-Dichloropropene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Ethylbenzene	<0.098	0.098		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Hexachlorobutadiene	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
2-Hexanone	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Iodomethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Isopropylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
4-Isopropyltoluene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Methylene chloride	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
4-Methyl-2-pentanone	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Methyl tert-butyl ether	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Naphthalene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
n-Propylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Styrene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1,1,2-Tetrachloroethane	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1,2,2-Tetrachloroethane	<0.098	0.098		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-03
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-3
Collection Date: 6/2/2008 10:15:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Toluene	<0.098	0.098		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2,3-Trichlorobenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2,4-Trichlorobenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,1,1-Trichloroethane	<0.049	0.049		mg/Kg	0.98	SW8250B	6/3/08	6/3/08 20:05	SW	541
1,1,2-Trichloroethane	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Trichloroethene	<0.049	0.049		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Trichlorofluoromethane	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2,3-Trichloropropane	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2,4-Trimethylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,3,5-Trimethylbenzene	<0.25	0.25		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Vinyl acetate	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Vinyl chloride	<0.49	0.49		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Xylenes, Total	<0.15	0.15		mg/Kg	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
4-Bromofluorobenzene(Surrogate)	102	61-128		%REC	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
1,2-Dichloroethane-d4(Surrogate)	90	60-133		%REC	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Dibromofluoromethane(Surrogate)	98	60-132		%REC	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541
Toluene-d8(Surrogate)	106	60-132		%REC	0.98	SW8260B	6/3/08	6/3/08 20:05	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0667

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 18:26	KK	556
C10-C22 DRO	<30	30		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 18:26	KK	556
C22-C32 ORO	230	100		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 18:26	KK	556
o-Terphenyl(Surrogate)	89	70-130		%REC	1.0	8015AZ	6/5/08	6/5/08 18:26	KK	556



Date Printed 12-Jun-08

License No. AZM133/AZ0133

CLIENT: Environmental & Engineering Consultants, I
 Work Order: 08060012
 Lab ID: 08060012-04
 Project Name: 9th Ave + 6th St.
 Project Number:

Client Sample ID: UPRR-4
 Collection Date: 6/2/2008 10:25:00 AM
 Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
PREP METHOD: SW3541						Test Performed By: AZ0133				
Acenaphthene	<8.0	8.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Acenaphthylene	<8.0	8.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Benzo[a]anthracene	<0.40	0.40	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Benzo[a]pyrene	<0.10	0.10	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Benzo[b]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Benzo[g,h,i]perylene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Benzo[k]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Chrysene	<0.60	0.60	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Dibenz[a,h]anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Fluorene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Indeno[1,2,3-cd]pyrene	<0.20	0.20	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Naphthalene	<1.0	1.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Phenanthrene	<4.0	4.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
Pyrene	<1.0	1.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
2-Chloroanthracene(Surrogate)	75	45-116		%REC	10	EPA 8310	6/2/08	6/4/08 12:24	MJB	527
PREP METHOD: SW3050B						Test Performed By: AZ0133				
Arsenic	5.2	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Barium	86	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Cadmium	<1.0	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Chromium	7.2	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Lead	94	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:05	MDD	543
PREP METHOD: SW7471A						Test Performed By: AZ0133				
Mercury	0.093	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
PREP METHOD: SW5035						Test Performed By: AZ0133				
Acetone	<1.4	1.4		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Benzene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Bromobenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Bromochloromethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Bromodichloromethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Bromoform	<0.091	0.091		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Bromomethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
2-Butanone	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
n-Butylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-04
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-4
Collection Date: 6/2/2008 10:25:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
tert-Butylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Carbon disulfide	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Carbon tetrachloride	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Chlorobenzene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Dibromochloromethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Chloroethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Chloroform	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Chloromethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
2-Chlorotoluene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
4-Chlorotoluene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dibromo-3-chloropropane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dibromoethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Dibromomethane	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dichlorobenzene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,3-Dichlorobenzene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,4-Dichlorobenzene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Dichlorodifluoromethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1-Dichloroethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dichloroethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1-Dichloroethene	<0.091	0.091		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
cis-1,2-Dichloroethene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
trans-1,2-Dichloroethene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dichloropropane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,3-Dichloropropane	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
2,2-Dichloropropane	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1-Dichloropropene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
cis-1,3-Dichloropropene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
trans-1,3-Dichloropropene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Ethylbenzene	<0.091	0.091		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Hexachlorobutadiene	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
2-Hexanone	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Iodomethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Isopropylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
4-Isopropyltoluene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Methylene chloride	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
4-Methyl-2-pentanone	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Methyl tert-butyl ether	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Naphthalene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
n-Propylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Styrene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1,1,2-Tetrachloroethane	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1,2,2-Tetrachloroethane	<0.091	0.091		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-04
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-4
Collection Date: 6/2/2008 10:25:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Toluene	<0.091	0.091		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2,3-Trichlorobenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2,4-Trichlorobenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1,1-Trichloroethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,1,2-Trichloroethane	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Trichloroethene	<0.045	0.045		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Trichlorofluoromethane	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2,3-Trichloropropane	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2,4-Trimethylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,3,5-Trimethylbenzene	<0.23	0.23		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Vinyl acetate	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Vinyl chloride	<0.45	0.45		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Xylenes, Total	<0.14	0.14		mg/Kg	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
4-Bromofluorobenzene(Surrogate)	97	61-128		%REC	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
1,2-Dichloroethane-d4(Surrogate)	86	60-133		%REC	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Dibromofluoromethane(Surrogate)	81	60-132		%REC	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541
Toluene-d8(Surrogate)	101	60-132		%REC	0.91	SW8260B	6/3/08	6/3/08 20:43	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0667

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:10	KK	556
C10-C22 DRO	<30	30		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:10	KK	556
C22-C32 ORO	<100	100		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:10	KK	556
o-Terphenyl(Surrogate)	107	70-130		%REC	1.0	8015AZ	6/5/08	6/5/08 19:10	KK	556

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-05
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-5
Collection Date: 6/2/2008 10:35:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
<i>PREP METHOD: SW3541</i>						<i>Test Performed By: AZ0133</i>				
Acenaphthene	<8.0	8.0	D1,V1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Acenaphthylene	<8.0	8.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Benz[a]anthracene	0.82	0.40	D2,C8	mg/Kg	10	EPA 8310	6/2/08	6/9/08 9:59	MJB	527
Benzo[a]pyrene	0.34	0.10	D2	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Benzo[b]fluoranthene	0.48	0.40	D2	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Benzo[g,h,i]perylene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Benzo[k]fluoranthene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Chrysene	1.7	0.60	D2,C8	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Dibenz[a,h]anthracene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Fluoranthene	5.1	0.40	D2	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Fluorene	<0.40	0.40	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Indeno[1,2,3-cd]pyrene	0.25	0.20	D2	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Naphthalene	<1.0	1.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Phenanthrene	<4.0	4.0	D1	mg/Kg	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
Pyrene	3.2	1.0	D2	mg/Kg	10	EPA 8310	6/2/08	6/9/08 9:59	MJB	527
2-Chloroanthracene(Surrogate)	106	45-116		%REC	10	EPA 8310	6/2/08	6/4/08 12:55	MJB	527
<i>PREP METHOD: SW3050B</i>						<i>Test Performed By: AZ0133</i>				
Arsenic	5.5	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Barium	63	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Cadmium	<1.0	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Chromium	6.5	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Lead	91	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:11	MDD	543
<i>PREP METHOD: SW7471A</i>						<i>Test Performed By: AZ0133</i>				
Mercury	0.10	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
<i>PREP METHOD: SW5035</i>						<i>Test Performed By: AZ0133</i>				
Acetone	<1.5	1.5		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Benzene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Bromobenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Bromochloromethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Bromodichloromethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Bromoform	<0.10	0.10		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Bromomethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
2-Butanone	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
n-Butylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-05
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-5
Collection Date: 6/2/2008 10:35:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
tert-Butylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Carbon disulfide	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Carbon tetrachloride	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Chlorobenzene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Dibromochloromethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Chloroethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Chloroform	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Chloromethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
2-Chlorotoluene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
4-Chlorotoluene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dibromo-3-chloropropane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dibromoethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Dibromomethane	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dichlorobenzene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,3-Dichlorobenzene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,4-Dichlorobenzene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Dichlorodifluoromethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1-Dichloroethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dichloroethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1-Dichloroethene	<0.10	0.10		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
cis-1,2-Dichloroethene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
trans-1,2-Dichloroethene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dichloropropane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,3-Dichloropropane	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
2,2-Dichloropropane	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1-Dichloropropene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
cis-1,3-Dichloropropene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
trans-1,3-Dichloropropene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Ethylbenzene	<0.10	0.10		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Hexachlorobutadiene	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
2-Hexanone	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Iodomethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Isopropylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
4-Isopropyltoluene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Methylene chloride	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
4-Methyl-2-pentanone	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Methyl tert-butyl ether	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Naphthalene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
n-Propylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Styrene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1,1,2-Tetrachloroethane	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1,2,2-Tetrachloroethane	<0.10	0.10		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-05
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-5
Collection Date: 6/2/2008 10:35:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Toluene	<0.10	0.10		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2,3-Trichlorobenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2,4-Trichlorobenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1,1-Trichloroethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,1,2-Trichloroethane	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Trichloroethene	<0.050	0.050		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Trichlorofluoromethane	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2,3-Trichloropropane	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2,4-Trimethylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,3,5-Trimethylbenzene	<0.25	0.25		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Vinyl acetate	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Vinyl chloride	<0.50	0.50		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Xylenes, Total	<0.15	0.15		mg/Kg	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
4-Bromofluorobenzene(Surrogate)	97	61-128		%REC	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
1,2-Dichloroethane-d4(Surrogate)	87	60-133		%REC	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Dibromofluoromethane(Surrogate)	81	60-132		%REC	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541
Toluene-d8(Surrogate)	100	60-132		%REC	1.0	SW8260B	6/3/08	6/3/08 21:22	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0667

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:55	KK	556
C10-C22 DRO	<30	30		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:55	KK	556
C22-C32 ORO	130	100		mg/Kg	1.0	8015AZ	6/5/08	6/5/08 19:55	KK	556
o-Terphenyl(Surrogate)	101	70-130		%REC	1.0	8015AZ	6/5/08	6/5/08 19:55	KK	556

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-06
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-6
Collection Date: 6/2/2008 10:50:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
<i>PREP METHOD: SW3541</i>						<i>Test Performed By: AZ0133</i>				
Acenaphthene	<4.0	4.0	D1,V1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Acenaphthylene	<4.0	4.0	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Anthracene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Benzo[a]anthracene	<0.20	0.20	D1,V1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Benzo[a]pyrene	0.055	0.050	D2	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Benzo[b]fluoranthene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Benzo[g,h,i]perylene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Benzo[k]fluoranthene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Chrysene	<0.30	0.30	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Dibenz[a,h]anthracene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Fluoranthene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Fluorene	<0.20	0.20	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Indeno[1,2,3-cd]pyrene	<0.10	0.10	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Naphthalene	<0.50	0.50	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Phenanthrene	<2.0	2.0	D1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
Pyrene	<0.50	0.50	D1,V1	mg/Kg	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
2-Chloroanthracene(Surrogate)	75	45-116		%REC	5.0	EPA 8310	6/2/08	6/4/08 13:26	MJB	527
<i>PREP METHOD: SW3050B</i>						<i>Test Performed By: AZ0133</i>				
Arsenic	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Barium	36	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Cadmium	<1.0	1.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Chromium	6.8	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Lead	77	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Selenium	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
Silver	<5.0	5.0		mg/Kg	1.0	SW6010B	6/4/08	6/5/08 15:16	MDD	543
<i>PREP METHOD: SW7471A</i>						<i>Test Performed By: AZ0133</i>				
Mercury	<0.083	0.083		mg/Kg	1.0	SW7471A	6/4/08	6/5/08	BJL	546
<i>PREP METHOD: SW5035</i>						<i>Test Performed By: AZ0133</i>				
Acetone	<1.8	1.8	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Benzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Bromobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Bromochloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Bromodichloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Bromoform	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Bromomethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
2-Butanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
n-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-06
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-6
Collection Date: 6/2/2008 10:50:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
sec-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
tert-Butylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Carbon disulfide	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Carbon tetrachloride	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Chlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Dibromochloromethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Chloroethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Chloroform	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Chloromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
2-Chlorotoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
4-Chlorotoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dibromo-3-chloropropane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dibromoethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Dibromomethane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,3-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,4-Dichlorobenzene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Dichlorodifluoromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1-Dichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1-Dichloroethene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
cis-1,2-Dichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
trans-1,2-Dichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dichloropropane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,3-Dichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
2,2-Dichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1-Dichloropropene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
cis-1,3-Dichloropropene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
trans-1,3-Dichloropropene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Ethylbenzene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Hexachlorobutadiene	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
2-Hexanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Iodomethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Isopropylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
4-Isopropyltoluene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Methylene chloride	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
4-Methyl-2-pentanone	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Methyl tert-butyl ether	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Naphthalene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
n-Propylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Styrene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1,1,2-Tetrachloroethane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1,2,2-Tetrachloroethane	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Lab ID: 08060012-06
Project Name: 9th Ave + 6th St.
Project Number:

Client Sample ID: UPRR-6
Collection Date: 6/2/2008 10:50:00 AM
Matrix: Soil

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Tetrachloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Toluene	<0.12	0.12	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2,3-Trichlorobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2,4-Trichlorobenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1,1-Trichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,1,2-Trichloroethane	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Trichloroethene	<0.061	0.061	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Trichlorofluoromethane	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2,3-Trichloropropane	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2,4-Trimethylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,3,5-Trimethylbenzene	<0.30	0.30	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Vinyl acetate	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Vinyl chloride	<0.61	0.61	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Xylenes, Total	<0.18	0.18	N1	mg/Kg	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
4-Bromofluorobenzene(Surrogate)	100	61-128		%REC	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
1,2-Dichloroethane-d4(Surrogate)	89	60-133		%REC	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Dibromofluoromethane(Surrogate)	82	60-132		%REC	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541
Toluene-d8(Surrogate)	105	60-132		%REC	1.2	SW8260B	6/3/08	6/3/08 22:01	SW	541

PREP METHOD: 8015AZR1

Test Performed By: AZ0567

C6-C10 GRO	<20	20		mg/Kg	1.0	8015AZ	6/5/08	6/6/08 11:51	KK	556
C10-C22 DRO	<30	30		mg/Kg	1.0	8015AZ	6/5/08	6/6/08 11:51	KK	556
C22-C32 ORO	<100	100		mg/Kg	1.0	8015AZ	6/5/08	6/6/08 11:51	KK	556
o-Terphenyl(Surrogate)	95	70-130		%REC	1.0	8015AZ	6/5/08	6/6/08 11:51	KK	556

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Acenaphthene	<0.80	0.80		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Acenaphthylene	<0.80	0.80		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Anthracene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Benzo[a]anthracene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Benzo[a]pyrene	<0.010	0.010		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Benzo[b]fluoranthene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Benzo[g,h,i]perylene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Benzo[k]fluoranthene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Chrysene	<0.060	0.060		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Dibenz[a,h]anthracene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Fluoranthene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Fluorene	<0.040	0.040		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Indeno[1,2,3-cd]pyrene	<0.020	0.020		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Naphthalene	<0.10	0.10		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Phenanthrene	<0.40	0.40		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Pyrene	<0.10	0.10		mg/Kg	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
2-Chloroanthracene	62	45-116	N1	%REC	1	EPA 8310	6/2/08	6/3/08 10:33	MJB	527
Arsenic	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Barium	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Cadmium	<1.0	1.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Chromium	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Lead	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Selenium	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Silver	<5.0	5.0		mg/Kg	1	SW6010B	6/4/08	6/5/08 14:22	MDD	543
Mercury	<0.083	0.083		mg/Kg	1	SW7471A	6/4/08	6/5/08	BJL	546

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Acetone	<1.5	1.5		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Benzene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Bromobenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Bromochloromethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Bromodichloromethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Bromoform	<0.10	0.10		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Bromomethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
2-Butanone	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
n-Butylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
sec-Butylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
tert-Butylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Carbon disulfide	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Carbon tetrachloride	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Chlorobenzene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Dibromochloromethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Chloroethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Chloroform	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Chloromethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
2-Chlorotoluene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
4-Chlorotoluene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dibromo-3-chloropropane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dibromoethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Dibromomethane	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dichlorobenzene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,3-Dichlorobenzene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,4-Dichlorobenzene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Dichlorodifluoromethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1-Dichloroethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dichloroethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1-Dichloroethene	<0.10	0.10		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
cis-1,2-Dichloroethene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
trans-1,2-Dichloroethene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dichloropropane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,3-Dichloropropane	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
2,2-Dichloropropane	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1-Dichloropropene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
cis-1,3-Dichloropropene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
trans-1,3-Dichloropropene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Ethylbenzene	<0.10	0.10		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Hexachlorobutadiene	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
2-Hexanone	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Iodomethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Isopropylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
4-Isopropyltoluene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Methylene chloride	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
4-Methyl-2-pentanone	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Methyl tert-butyl ether	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Naphthalene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
n-Propylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Styrene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1,1,2-Tetrachloroethane	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1,2,2-Tetrachloroethane	<0.10	0.10		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Tetrachloroethene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Toluene	<0.10	0.10		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2,3-Trichlorobenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2,4-Trichlorobenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1,1-Trichloroethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,1,2-Trichloroethane	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Trichloroethene	<0.050	0.050		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Trichlorofluoromethane	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2,3-Trichloropropane	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2,4-Trimethylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,3,5-Trimethylbenzene	<0.25	0.25		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Vinyl acetate	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Vinyl chloride	<0.50	0.50		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Xylenes, Total	<0.15	0.15		mg/Kg	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
4-Bromofluorobenzene	104	61-128		%REC	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
1,2-Dichloroethane-d4	93	60-133		%REC	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Dibromofluoromethane	100	60-132		%REC	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
Toluene-d8	95	60-132		%REC	1	SW8260B	6/3/08	6/3/08 15:16	SW	541
C6-C10 GRO	<20	20		mg/Kg	1	8015AZ	6/5/08	6/5/08 13:55	KK	556
C10-C22 DRO	<30	30		mg/Kg	1	8015AZ	6/5/08	6/5/08 13:55	KK	556
C22-C32 ORO	<100	100		mg/Kg	1	8015AZ	6/5/08	6/5/08 13:55	KK	556
o-Terphenyl	107	70-130		%REC	1	8015AZ	6/5/08	6/5/08 13:55	KK	556

Date: 12-Jun-08

License No. AZM133/AZ0133

CLIENT:**Work Order:****QC SUMMARY REPORT****Project:** #Error

#Error

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
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Date: 12-Jun-08

License No. AZM133/AZ0133

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Sample Matrix Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: 08060010-01A-MS		Batch ID: 527		Test Code: EPA 8310			Date Analyzed: 06/03/08 12:38				
Client ID:		Units: mg/Kg			Date Prepared: 6/2/08						
Acenaphthene	4.670	0.80	5.994		78%	46	110				
Acenaphthylene	8.493	0.80	11.99		71%	55	106				
Anthracene	0.4595	0.040	0.5994		77%	51	120				
Benz[a]anthracene	0.4945	0.040	0.5994		82%	34	127				
Benzo[a]pyrene	0.4865	0.010	0.5994		81%	35	127				
Benzo[b]fluoranthene	0.8941	0.040	1.199		75%	51	110				
Benzo[g,h,i]perylene	0.8991	0.040	1.199		75%	51	112				
Benzo[k]fluoranthene	0.4825	0.040	0.5994		80%	55	109				
Chrysene	0.4266	0.060	0.5994		71%	46	117				
Dibenz[a,h]anthracene	0.9331	0.040	1.199		78%	51	105				
Fluoranthene	0.8751	0.040	1.199		73%	31	136				
Fluorene	0.8202	0.040	1.199		68%	26	139				
Indeno[1,2,3-cd]pyrene	0.4496	0.020	0.5994		75%	57	110				
Naphthalene	4.221	0.10	5.994		70%	44	108				
Phenanthrene	0.4456	0.40	0.5994		74%	23	138				
Pyrene	0.4955	0.10	0.5994		83%	31	124				
2-Chloroanthracene	0.6064	N/A	0.9990		61%	45	116				N1

Sample ID: 08060010-01A-MSD		Batch ID: 527		Test Code: EPA 8310			Date Analyzed: 06/03/08 13:09				
Client ID:		Units: mg/Kg			Date Prepared: 6/2/08						
Acenaphthene	5.176	0.80	6.006		86%	46	110	4.67	10%	26	
Acenaphthylene	9.429	0.80	12.01		78%	55	106	8.493	10%	25	
Anthracene	0.5005	0.040	0.6006		83%	51	120	0.4595	9%	31	
Benz[a]anthracene	0.5405	0.040	0.6006		90%	34	127	0.4945	9%	42	
Benzo[a]pyrene	0.5295	0.010	0.6006		88%	35	127	0.4865	8%	43	
Benzo[b]fluoranthene	0.9730	0.040	1.201		81%	51	110	0.8941	8%	27	
Benzo[g,h,i]perylene	0.9880	0.040	1.201		82%	51	112	0.8991	9%	23	
Benzo[k]fluoranthene	0.5265	0.040	0.6006		88%	55	109	0.4825	9%	24	
Chrysene	0.4655	0.060	0.6006		78%	46	117	0.4266	9%	33	
Dibenz[a,h]anthracene	1.020	0.040	1.201		85%	51	105	0.9331	9%	25	
Fluoranthene	0.9610	0.040	1.201		80%	31	136	0.8751	9%	26	
Fluorene	0.8989	0.040	1.201		75%	26	139	0.8202	9%	29	
Indeno[1,2,3-cd]pyrene	0.4915	0.020	0.6006		82%	57	110	0.4496	9%	23	
Naphthalene	4.825	0.10	6.006		80%	44	108	4.221	13%	25	
Phenanthrene	0.4875	0.40	0.6006		81%	23	138	0.4456	9%	30	
Pyrene	0.5455	0.10	0.6006		91%	31	124	0.4955	10%	33	
2-Chloroanthracene	0.6697	N/A	1.001		67%	45	116				N1

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Sample Matrix Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: 08060012-01B-MS Batch ID: 543			Test Code: SW6010B			Date Analyzed: 06/05/08 14:44					
Client ID: UPRR-1			Units: mg/Kg			Date Prepared: 6/4/08					
Arsenic	63.78	5.0	50.00	22.03	84%	75	125				
Barium	664.1	5.0	550.0	107.6	101%	75	125				
Cadmium	48.18	1.0	50.00	1.192	94%	75	125				
Chromium	54.76	5.0	50.00	9.271	91%	75	125				
Lead	517.8	5.0	50.00	483.3	69%	75	125				
Selenium	52.43	5.0	50.00		105%	75	125				M2
Silver	24.19	5.0	25.00		97%	75	125				
Sample ID: 08060012-01B-MSD Batch ID: 543			Test Code: SW6010B			Date Analyzed: 06/05/08 14:50					
Client ID: UPRR-1			Units: mg/Kg			Date Prepared: 6/4/08					
Arsenic	72.09	5.0	50.00	22.03	100%	75	125	63.78	12%	20	
Barium	662.0	5.0	550.0	107.6	104%	75	125	664.1	3%	20	
Cadmium	48.49	1.0	50.00	1.192	95%	75	125	48.18	1%	20	
Chromium	57.08	5.0	50.00	9.271	96%	75	125	54.76	4%	20	
Lead	868.8	5.0	50.00	483.3	771%	75	125	517.8	51%	20	M1,R2
Selenium	51.64	5.0	50.00		103%	75	125	52.43	2%	20	
Silver	24.76	5.0	25.00		99%	75	125	24.19	2%	20	
Sample ID: 08060012-01B-MS Batch ID: 546			Test Code: SW7471A			Date Analyzed: 06/05/08 00:00					
Client ID: UPRR-1			Units: mg/Kg			Date Prepared: 6/4/08					
Mercury	1.003	0.083	0.8333		120%	89	126				
Sample ID: 08060012-01B-MSD Batch ID: 546			Test Code: SW7471A			Date Analyzed: 06/05/08 00:00					
Client ID: UPRR-1			Units: mg/Kg			Date Prepared: 6/4/08					
Mercury	0.9583	0.083	0.8333		115%	89	126	1.003	5%	20	
Sample ID: 08060012-06CMS Batch ID: 556			Test Code: 8015AZ			Date Analyzed: 06/05/08 23:38					
Client ID: UPRR-6			Units: mg/Kg			Date Prepared: 6/5/08					
C10-C22 DRO	515	30	500		103%	70	130				
o-Terphenyl	10.4	N/A	10.0		104%	70	130				
Sample ID: 08060012-06CMSD Batch ID: 556			Test Code: 8015AZ			Date Analyzed: 06/06/08 00:22					
Client ID: UPRR-6			Units: mg/Kg			Date Prepared: 6/5/08					
C10-C22 DRO	514	30	500		103%	70	130	515	0%	20	
o-Terphenyl	10.2	N/A	10.0		102%	70	130				

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCS-527		Batch ID: 527		Test Code: EPA 8310			Date Analyzed: 06/03/08 11:04				
				Units: mg/Kg			Date Prepared: 6/2/08				
Acenaphthene	4.338	0.80	6.000		72%	56	106				
Acenaphthylene	7.873	0.80	12.00		66%	59	106				
Anthracene	0.4170	0.040	0.6000		70%	57	114				
Benz[a]anthracene	0.4480	0.040	0.6000		75%	56	111				
Benzo[a]pyrene	0.4350	0.010	0.6000		73%	50	123				
Benzo[b]fluoranthene	0.8170	0.040	1.200		68%	56	111				
Benzo[g,h,i]perylene	0.8140	0.040	1.200		68%	55	112				
Benzo[k]fluoranthene	0.4410	0.040	0.6000		74%	57	111				
Chrysene	0.3890	0.060	0.6000		65%	55	111				
Dibenz[a,h]anthracene	0.8520	0.040	1.200		71%	54	107				
Fluoranthene	0.7970	0.040	1.200		66%	58	111				
Fluorene	0.7490	0.040	1.200		62%	58	108				
Indeno[1,2,3-cd]pyrene	0.4090	0.020	0.6000		68%	61	111				
Naphthalene	4.004	0.10	6.000		67%	56	103				
Phenanthrene	0.4080	0.40	0.6000		68%	53	113				
Pyrene	0.4580	0.10	0.6000		76%	48	112				
2-Chloroanthracene	0.5440	N/A	1.000		54%	45	116				N1
Sample ID: LCSD-527		Batch ID: 527		Test Code: EPA 8310			Date Analyzed: 06/03/08 11:35				
				Units: mg/Kg			Date Prepared: 6/2/08				
Acenaphthene	4.745	0.80	6.000		79%	56	106	4.338	9%	25	
Acenaphthylene	8.648	0.80	12.00		72%	59	106	7.873	9%	23	
Anthracene	0.4610	0.040	0.6000		77%	57	114	0.417	10%	22	
Benz[a]anthracene	0.4910	0.040	0.6000		82%	56	111	0.448	9%	24	
Benzo[a]pyrene	0.4780	0.010	0.6000		80%	50	123	0.435	9%	23	
Benzo[b]fluoranthene	0.8920	0.040	1.200		74%	56	111	0.817	9%	24	
Benzo[g,h,i]perylene	0.8960	0.040	1.200		75%	55	112	0.814	10%	27	
Benzo[k]fluoranthene	0.4820	0.040	0.6000		80%	57	111	0.441	9%	25	
Chrysene	0.4240	0.060	0.6000		71%	55	111	0.389	9%	25	
Dibenz[a,h]anthracene	0.9310	0.040	1.200		78%	54	107	0.852	9%	27	
Fluoranthene	0.8770	0.040	1.200		73%	58	111	0.797	10%	24	
Fluorene	0.8210	0.040	1.200		68%	58	108	0.749	9%	22	
Indeno[1,2,3-cd]pyrene	0.4470	0.020	0.6000		75%	61	111	0.409	9%	23	
Naphthalene	4.429	0.10	6.000		74%	56	103	4.004	10%	24	
Phenanthrene	0.4460	0.40	0.6000		74%	53	113	0.408	9%	29	
Pyrene	0.4920	0.10	0.6000		82%	48	112	0.458	7%	30	
2-Chloroanthracene	0.6080	N/A	1.000		61%	45	116				N1

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCS-543		Batch ID: 543		Test Code: SW6010B			Date Analyzed: 06/05/08 14:26				
				Units: mg/Kg			Date Prepared: 6/4/08				
Arsenic	48.37	5.0	50.00		97%	87	112				
Barium	560.0	5.0	550.0		102%	71	130				
Cadmium	49.16	1.0	50.00		98%	87	117				
Chromium	49.62	5.0	50.00		99%	88	112				
Lead	50.51	5.0	50.00		101%	82	116				
Selenium	51.62	5.0	50.00		103%	83	117				
Silver	25.00	5.0	25.00		100%	85	111				
Sample ID: LCSD-543		Batch ID: 543		Test Code: SW6010B			Date Analyzed: 06/05/08 14:30				
				Units: mg/Kg			Date Prepared: 6/4/08				
Arsenic	50.50	5.0	50.00		101%	87	112	48.37	4%	20	
Barium	573.3	5.0	550.0		104%	71	130	560	2%	20	
Cadmium	51.35	1.0	50.00		103%	87	117	49.16	4%	20	
Chromium	51.75	5.0	50.00		104%	88	112	49.62	4%	20	
Lead	52.37	5.0	50.00		105%	82	116	50.51	4%	20	
Selenium	53.65	5.0	50.00		107%	83	117	51.62	4%	20	
Silver	25.17	5.0	25.00		101%	85	111	25	1%	20	
Sample ID: LCS-546		Batch ID: 546		Test Code: SW7471A			Date Analyzed: 06/05/08 00:00				
				Units: mg/Kg			Date Prepared: 6/4/08				
Mercury	0.9000	0.083	0.8333		108%	93	116				
Sample ID: LCSD-546		Batch ID: 546		Test Code: SW7471A			Date Analyzed: 06/05/08 00:00				
				Units: mg/Kg			Date Prepared: 6/4/08				
Mercury	0.8933	0.083	0.8333		107%	93	116	0.9	1%	20	

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCS-541	Batch ID: 541				Test Code: SW8260B			Date Analyzed: 06/03/08 16:09			
					Units: mg/Kg			Date Prepared: 6/3/08			
Acetone	1.861	1.5	2.000		93%	51	152				
Benzene	0.9570	0.050	1.000		96%	70	130				
Bromobenzene	0.9665	0.25	1.000		97%	70	130				
Bromochloromethane	0.9520	0.050	1.000		95%	70	130				
Bromodichloromethane	1.009	0.050	1.000		101%	70	130				
Bromoform	1.099	0.10	1.000		110%	70	130				
Bromomethane	0.8255	0.50	1.000		83%	26	164				
2-Butanone	1.829	0.50	2.000		91%	48	145				
n-Butylbenzene	0.9440	0.25	1.000		94%	59	133				
sec-Butylbenzene	0.9460	0.25	1.000		95%	65	124				
tert-Butylbenzene	0.9760	0.25	1.000		98%	67	126				
Carbon disulfide	1.845	0.50	2.000		92%	33	150				
Carbon tetrachloride	0.9250	0.050	1.000		93%	67	126				
Chlorobenzene	1.007	0.050	1.000		101%	70	130				
Dibromochloromethane	1.049	0.050	1.000		105%	70	130				
Chloroethane	0.8485	0.50	1.000		85%	37	143				
Chloroform	0.8680	0.050	1.000		87%	70	130				
Chloromethane	0.8240	0.50	1.000		82%	25	148				
2-Chlorotoluene	0.9990	0.25	1.000		100%	66	127				
4-Chlorotoluene	0.8665	0.25	1.000		87%	65	129				
1,2-Dibromo-3-chloropropane	1.014	0.50	1.000		101%	66	127				
1,2-Dibromoethane	1.008	0.50	1.000		101%	70	130				
Dibromomethane	0.9990	0.25	1.000		100%	70	130				
1,2-Dichlorobenzene	1.017	0.050	1.000		102%	70	130				
1,3-Dichlorobenzene	1.007	0.050	1.000		101%	68	125				
1,4-Dichlorobenzene	1.014	0.050	1.000		101%	69	125				
Dichlorodifluoromethane	0.5390	0.50	1.000		54%	10	178				
1,1-Dichloroethane	0.8245	0.050	1.000		82%	67	124				
1,2-Dichloroethane	0.8945	0.050	1.000		89%	70	130				
1,1-Dichloroethene	0.7740	0.10	1.000		77%	62	121				
cis-1,2-Dichloroethene	0.9050	0.050	1.000		91%	66	124				
trans-1,2-Dichloroethene	0.7775	0.050	1.000		78%	57	126				
1,2-Dichloropropane	0.8925	0.050	1.000		89%	70	130				
1,3-Dichloropropane	0.9505	0.25	1.000		95%	67	120				
2,2-Dichloropropane	0.8755	0.25	1.000		88%	46	142				
1,1-Dichloropropene	0.9435	0.25	1.000		94%	70	130				
cis-1,3-Dichloropropene	1.017	0.050	1.000		102%	70	130				
trans-1,3-Dichloropropene	1.053	0.050	1.000		105%	72	120				
Ethylbenzene	1.013	0.10	1.000		101%	70	130				
Hexachlorobutadiene	1.050	0.50	1.000		105%	67	128				
2-Hexanone	1.814	0.50	2.000		91%	64	124				
Iodomethane	2.054	0.50	2.000		103%	66	133				
Isopropylbenzene	1.129	0.25	1.000		113%	70	130				

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
4-Isopropyltoluene	0.9985	0.25	1.000		100%	66	128				
Methylene chloride	1.043	0.50	1.000		104%	42	142				
4-Methyl-2-pentanone	1.748	0.50	2.000		87%	67	131				
Methyl tert-butyl ether	1.777	0.25	2.000		89%	63	136				
Naphthalene	0.9685	0.25	1.000		97%	61	130				
n-Propylbenzene	0.9720	0.25	1.000		97%	67	125				
Styrene	1.063	0.25	1.000		106%	70	130				
1,1,1,2-Tetrachloroethane	0.9890	0.25	1.000		99%	68	122				
1,1,2,2-Tetrachloroethane	1.049	0.10	1.000		105%	69	118				
Tetrachloroethene	1.045	0.050	1.000		105%	66	120				
Toluene	0.9675	0.10	1.000		97%	70	130				
1,2,3-Trichlorobenzene	0.9990	0.25	1.000		100%	56	130				
1,2,4-Trichlorobenzene	0.9820	0.25	1.000		98%	70	130				
1,1,1-Trichloroethane	0.8690	0.050	1.000		87%	67	124				
1,1,2-Trichloroethane	0.9805	0.050	1.000		98%	70	130				
Trichloroethene	0.9680	0.050	1.000		97%	70	130				
Trichlorofluoromethane	0.7885	0.50	1.000		79%	42	144				
1,2,3-Trichloropropane	0.9450	0.25	1.000		95%	70	130				
1,2,4-Trimethylbenzene	0.9315	0.25	1.000		93%	67	126				
1,3,5-Trimethylbenzene	0.9425	0.25	1.000		94%	67	127				
Vinyl acetate	1.363	0.50	2.000		68%	25	170				
Vinyl chloride	0.8180	0.50	1.000		82%	25	172				
Xylenes, Total	3.171	0.15	3.000		106%	70	130				
4-Bromofluorobenzene	2.468	N/A	2.500		99%	61	128				
1,2-Dichloroethane-d4	2.213	N/A	2.500		89%	60	133				
Dibromofluoromethane	2.263	N/A	2.500		91%	60	132				
Toluene-d8	2.405	N/A	2.500		96%	60	132				

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike Duplicate

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSD-541	Batch ID: 541										
				Test Code: SW8260B				Date Analyzed: 06/03/08 16:49			
				Units: mg/Kg				Date Prepared: 6/3/08			
Acetone	1.779	1.5	2.000		89%	51	152	1.861	5%	33	
Benzene	0.9045	0.050	1.000		90%	70	130	0.957	6%	20	
Bromobenzene	0.9930	0.25	1.000		99%	70	130	0.9665	3%	20	
Bromochloromethane	0.8905	0.050	1.000		89%	70	130	0.952	7%	20	
Bromodichloromethane	1.024	0.050	1.000		102%	70	130	1.009	1%	20	
Bromoform	1.148	0.10	1.000		115%	70	130	1.099	4%	20	
Bromomethane	0.8625	0.50	1.000		86%	26	164	0.8255	4%	40	
2-Butanone	1.825	0.50	2.000		91%	48	145	1.829	0%	23	
n-Butylbenzene	0.9585	0.25	1.000		96%	59	133	0.944	2%	20	
sec-Butylbenzene	0.9745	0.25	1.000		97%	65	124	0.946	3%	20	
tert-Butylbenzene	0.9835	0.25	1.000		98%	67	126	0.976	1%	20	
Carbon disulfide	1.549	0.50	2.000		77%	33	150	1.845	17%	30	
Carbon tetrachloride	0.8420	0.050	1.000		84%	67	126	0.925	9%	20	
Chlorobenzene	1.022	0.050	1.000		102%	70	130	1.007	1%	20	
Dibromochloromethane	1.062	0.050	1.000		106%	70	130	1.049	1%	20	
Chloroethane	0.7850	0.50	1.000		79%	37	143	0.8485	8%	39	
Chloroform	0.8440	0.050	1.000		84%	70	130	0.868	3%	20	
Chloromethane	0.8685	0.50	1.000		87%	25	148	0.824	5%	54	
2-Chlorotoluene	1.012	0.25	1.000		101%	66	127	0.999	1%	20	
4-Chlorotoluene	0.8915	0.25	1.000		89%	65	129	0.8665	3%	20	
1,2-Dibromo-3-chloropropane	1.122	0.50	1.000		112%	66	127	1.014	10%	21	
1,2-Dibromoethane	1.017	0.50	1.000		102%	70	130	1.008	1%	20	
Dibromomethane	1.089	0.25	1.000		109%	70	130	0.999	9%	20	
1,2-Dichlorobenzene	1.047	0.050	1.000		105%	70	130	1.017	3%	20	
1,3-Dichlorobenzene	1.046	0.050	1.000		105%	68	125	1.007	4%	20	
1,4-Dichlorobenzene	1.063	0.050	1.000		106%	69	125	1.014	5%	20	
Dichlorodifluoromethane	0.5255	0.50	1.000		53%	10	178	0.539	3%	41	
1,1-Dichloroethane	0.7665	0.050	1.000		77%	67	124	0.8245	7%	20	
1,2-Dichloroethane	0.9575	0.050	1.000		96%	70	130	0.8945	7%	20	
1,1-Dichloroethene	0.6740	0.10	1.000		67%	62	121	0.774	14%	24	
cis-1,2-Dichloroethene	0.8330	0.050	1.000		83%	66	124	0.905	8%	23	
trans-1,2-Dichloroethene	0.6915	0.050	1.000		69%	57	126	0.7775	12%	24	
1,2-Dichloropropane	0.8890	0.050	1.000		89%	70	130	0.8925	0%	20	
1,3-Dichloropropane	0.9305	0.25	1.000		93%	67	120	0.9505	2%	22	
2,2-Dichloropropane	0.7210	0.25	1.000		72%	46	142	0.8755	19%	20	
1,1-Dichloropropene	0.8520	0.25	1.000		85%	70	130	0.9435	10%	20	
cis-1,3-Dichloropropene	1.041	0.050	1.000		104%	70	130	1.017	2%	20	
trans-1,3-Dichloropropene	1.058	0.050	1.000		106%	72	120	1.053	0%	20	
Ethylbenzene	1.002	0.10	1.000		100%	70	130	1.013	1%	20	
Hexachlorobutadiene	1.055	0.50	1.000		106%	67	128	1.05	0%	20	
2-Hexanone	1.902	0.50	2.000		95%	64	124	1.814	5%	20	
Iodomethane	1.765	0.50	2.000		88%	66	133	2.054	15%	25	
Isopropylbenzene	1.119	0.25	1.000		112%	70	130	1.129	1%	20	

CLIENT: Environmental & Engineering Consultants, I
Work Order: 08060012
Project: 9th Ave + 6th St.

QC SUMMARY REPORT

Blank Spike Duplicate

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
4-Isopropyltoluene	1.028	0.25	1.000		103%	66	128	0.9985	3%	20	
Methylene chloride	0.8980	0.50	1.000		90%	42	142	1.043	15%	27	
4-Methyl-2-pentanone	1.937	0.50	2.000		97%	67	131	1.748	10%	20	
Methyl tert-butyl ether	1.543	0.25	2.000		77%	63	136	1.777	14%	20	
Naphthalene	1.052	0.25	1.000		105%	61	130	0.9685	8%	21	
n-Propylbenzene	0.9915	0.25	1.000		99%	67	125	0.972	2%	20	
Styrene	1.050	0.25	1.000		105%	70	130	1.063	1%	20	
1,1,1,2-Tetrachloroethane	0.9880	0.25	1.000		99%	68	122	0.989	0%	20	
1,1,2,2-Tetrachloroethane	1.088	0.10	1.000		109%	69	118	1.049	4%	20	
Tetrachloroethene	1.057	0.050	1.000		106%	66	120	1.045	1%	20	
Toluene	0.9915	0.10	1.000		99%	70	130	0.9675	2%	20	
1,2,3-Trichlorobenzene	1.065	0.25	1.000		107%	56	130	0.999	6%	20	
1,2,4-Trichlorobenzene	1.031	0.25	1.000		103%	70	130	0.982	5%	20	
1,1,1-Trichloroethane	0.7560	0.050	1.000		76%	67	124	0.869	14%	20	
1,1,2-Trichloroethane	0.9910	0.050	1.000		99%	70	130	0.9805	1%	20	
Trichloroethene	0.9260	0.050	1.000		93%	70	130	0.968	4%	20	
Trichlorofluoromethane	0.7570	0.50	1.000		76%	42	144	0.7885	4%	37	
1,2,3-Trichloropropane	1.004	0.25	1.000		100%	70	130	0.945	6%	20	
1,2,4-Trimethylbenzene	0.9765	0.25	1.000		98%	67	126	0.9315	5%	20	
1,3,5-Trimethylbenzene	0.9795	0.25	1.000		98%	67	127	0.9425	4%	20	
Vinyl acetate	1.221	0.50	2.000		61%	25	170	1.363	11%	86	
Vinyl chloride	0.8115	0.50	1.000		81%	25	172	0.818	1%	33	
Xylenes, Total	3.086	0.15	3.000		103%	70	130	3.171	3%	20	
4-Bromofluorobenzene	2.464	N/A	2.500		99%	61	128				
1,2-Dichloroethane-d4	2.313	N/A	2.500		93%	60	133				
Dibromofluoromethane	2.248	N/A	2.500		90%	60	132				
Toluene-d8	2.647	N/A	2.500		106%	60	132				

Sample ID: LCS-556 Batch ID: 556 Test Code: 8015AZ Date Analyzed: 06/05/08 14:40
 Units: mg/Kg Date Prepared: 6/5/08

C10-C22 DRO	453	30	500	91%	70	130
o-Terphenyl	8.30	N/A	10.0	83%	70	130

Sample ID: LCSD-556 Batch ID: 556 Test Code: 8015AZ Date Analyzed: 06/05/08 15:25
 Units: mg/Kg Date Prepared: 6/5/08

C10-C22 DRO	519	30	500	104%	70	130	453	14%	20
o-Terphenyl	9.68	N/A	10.0	97%	70	130			



3725 E. Atlanta Ave.
Phoenix, Arizona 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 302
Tucson, Arizona 85714
Phone: (520) 573-1061
Fax: (520) 573-1063

Chain of Custody

Work Order No: 08060012
Date 6/2/08 Page 1 of 1

Project Manager: Kevin Piereo
Client Name: FEE
Address: 4625 E. Fort Lowell Rd
City, State ZIP: Tucson, AZ 85712 Phone: 321-4625
Email: Fax:

Bill to:
Company: COT ELS
Address:
City, State ZIP: Phone:
Email: Fax:

Project Name: 9th AVE & 6th ST.
Project Number:
P.O. Number:
Sampler's Name:
Temperature (C): 26°C Temp Blank Present: YES
Received Intact: Yes No N/A Wet Ice / Blue Ice
Cooler Custody Seals: Yes (No) N/A Total Containers:
Sample Custody Seals: Yes (No) N/A 14
Time Sampled: 0940 0955 1015 1025 1035 1050
Lab ID: 01 02 03 04 05 06

SAMPLE RECEIPT		ANALYSIS REQUEST											TAT									
Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers	TPH (8015AZR.1)	Volatile Organics GCMS (624/ 8260B)	PAH (8310)	SDWA Volatiles (524.2)	Semi-Volatile Organics (625 / 8270)	Organochlorine Pesticides (608 / 8081)	PCB's (8082)	Metals (See Below)	Mercury (7471A / 7470 / 245.1)	Routine	Rush - Prelim	Rush - Final	Due Date:	Volatiles	Encores	Methanol Kits	Comments
UPRR-1	SL	6/2/08	0940	01	4	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CONF. IN 6/3/08
UPRR-2	SL	"	0955	02	3	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UPRR-3	SL	"	1015	03	2	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UPRR-4	SL	"	1025	04	2	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UPRR-5	SL	"	1035	05	2	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UPRR-6	SL	"	1050	06	2	✓	✓	✓					✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Metals to be analyzed as: Total TCLP Dissolved
Circle metals to be analyzed: 8RCRA 13PPM Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na TI Sn V Zn Hg
Method: 6010B 6020 200.7 200.8

Relinquished by: (Signature) Thomas J. Koser
Received by: (Signature) Kevin Collins
Date/Time: 6/2/08 12:40

Relinquished by: (Signature) Kevin Collins
Received by: (Signature) Express IT
Date/Time: 6/2/08 1500

Relinquished by: (Signature) Express IT
Received by: (Signature) R. Floyd
Date/Time: 6/2/08 1815

APPENDIX I
OWNER QUESTIONNAIRE

**PHASE I ENVIRONMENTAL ASSESSMENT REPORT
INTERVIEW QUESTIONNAIRE**

PROJECT NAME: COT 515 N. 9th AVE.
PROJECT #: 2070 2804

DATE: <u>6-30-08</u>	TIME: <u>3:25</u>	SCS EMPLOYEE:
<input type="checkbox"/> In Person	<input type="checkbox"/> Telephone	<input type="checkbox"/> In Writing (mail/delivery)
<input type="checkbox"/> E-Mail		<input type="checkbox"/> Other:
CONTACT NAME/TITLE: <u>George Parker Prop Manager</u>		
<input type="checkbox"/> User	<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Occupant
<input type="checkbox"/> Past Owner	<input type="checkbox"/> Past Occupant	<input type="checkbox"/> Past Operator
<input type="checkbox"/> Other (Explain):	<u>owner rep.</u>	
CONTACT COMPANY: <u>City of Tucson Real Property</u>		
ADDRESS:		
CITY: <u>Tucson</u>	STATE: <u>AZ</u>	ZIP CODE:
TELEPHONE #: <u>520791-4181</u>	MOBILE #:	
FAX #:	EMAIL: <u>George.Parker@tucsonaz.gov</u>	
ADDITIONAL CONTACT DATES		
PROJECT ADDRESS/LOCATION: <u>515 N. 9th AVE.</u>		

A. QUESTIONS: Please be as specific as reasonably feasible in answering questions regarding current and past conditions on the site. Please answer in good faith and to the extent of your knowledge regarding conditions that you personally observed or heard about. If more room is needed for answers, please continue on additional pages.

1. What is (are) the current site use(s)? <u>Vacant lot</u>
2. Were there other past site use(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know What were they and when did they occur?
3. Do you know of past site owners or occupants? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know Who were they and when did they own or occupy the site? <u>State of Ariz.</u>
4. Have there been significant changes to the site structures, roads, and other features? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know If yes, please describe on a separate page.
5. Is or was there potable water on the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know If yes, what is (was) the source (e.g., on-site well, municipal service, etc.)?
6. Is or was there sewage service to the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know If yes, who is (was) the provider? When was the site hooked up to the system?
7. Are or were there septic systems, cesspools, or other on-site waste disposal methods used on site (or evidence of clean-out ports or manholes)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know If yes, what are their locations and what portions of the site drain(ed) into them?

**PHASE I ENVIRONMENTAL ASSESSMENT REPORT
INTERVIEW QUESTIONNAIRE**

<p>8. Are or were heating and/or cooling systems located on the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't know Type of heating (e.g., natural gas, electric, heating oil, propane, etc.): Type of cooling (e.g., evaporative cooler, AC, etc.):</p>
<p>9. Are or were hazardous materials used, stored, disposed, treated, etc. on the site? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't know If yes, please describe in detail (types, uses, amounts, contents, locations, etc.) on a separate page.</p>
<p>10. Have there been any spills or chemical releases that have taken place on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know <i>Don't know</i> If yes, please describe in detail (when, types, amounts, locations, etc.) on a separate page.</p>
<p>11. ARE OR WERE ANY OF THE FOLLOWING LOCATED ON THE SITE? If yes, please describe in detail (numbers, ages, construction, sizes, contents, locations, staining, spills, leaks, etc.) on a separate page.</p>
a. <input type="checkbox"/> Drums, pails, buckets, or other containers of hazardous materials, petroleum products, or wastes
b. <input type="checkbox"/> Storage areas for hazardous materials, petroleum products, or wastes
c. <input type="checkbox"/> Underground storage tanks (USTs) or evidence of vent pipes, fill pipes, dispensers, pads, etc.
d. <input type="checkbox"/> Aboveground storage tanks (ASTs) or evidence of stands, containment areas, etc.
e. <input type="checkbox"/> Electrical transformers or other electrical equipment that may contain PCBs
f. <input type="checkbox"/> Hydraulic elevators
g. <input type="checkbox"/> Burial, landfilling, dumping, burning, etc. of solid or other wastes, or evidence such as mounds, pits, depressions, etc.
h. <input checked="" type="checkbox"/> Fill dirt (and source if known) <i>whole site</i>
i. <input type="checkbox"/> Strong, pungent, or noxious odors
j. <input type="checkbox"/> Pools of liquid, pits, ponds, lagoons, wastewater, or other liquid discharges
k. <input type="checkbox"/> Drains, separators, sumps, grates, vaults, etc. and where the inlets and outlets are located <i>High school west culvert</i>
l. <input type="checkbox"/> Drywells
m. <input type="checkbox"/> Water wells (active, inactive, or abandoned)
n. <input type="checkbox"/> Injection wells
o. <input checked="" type="checkbox"/> Stained soil or pavement <i>appears to be stained soil extensive</i>
p. <input type="checkbox"/> Corrosion or staining inside buildings
Note: Examples of types of hazardous materials or petroleum products include fuel, oil, solvents, antifreeze, acid, batteries, paint, etc.
<p>12. ADJOINING PROPERTY USES: Are there properties adjacent to the site with current or past occupants that use, store, treat, dispose, etc. hazardous materials or petroleum products? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't know If yes, please provide information.</p>
<p>13. Have there been any spills or chemical releases that have taken place on properties that are adjacent to the site? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't know If yes, please describe in detail (when, types, amounts, locations, etc.) on a separate page, and indicate whether the site may have been impacted.</p>

**PHASE I ENVIRONMENTAL ASSESSMENT REPORT
INTERVIEW QUESTIONNAIRE**

B. HELPFUL DOCUMENTS: Do you know whether any of the documents listed below exists and, if so, whether copies can and will be provided to SCS Engineers within a reasonable time and cost, preferably before the site visit?

	Yes	No	Don't know	
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Environment site assessment reports <i>Limited soil sample</i>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Environment compliance audit reports
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Registrations for USTs and ASTs
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Registrations for underground injection systems
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Material safety data sheets (MSDSs)
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Community right-to-know plan
8.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Reports regarding hydrogeologic conditions on the property or surrounding area
10.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
11.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazardous waste generator notices or reports
12.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Geotechnical studies
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Risk assessments
14.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Recorded Activity and Use Limitations (AULs)
15.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Historical photographs

C. PROCEEDINGS INVOLVING THE PROPERTY: Do you know of any of the following proceedings listed below. If yes, please provide information regarding the type of proceeding, what violations or laws are involved, status of the proceeding, etc.

	Yes	No	Don't know	
1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property
3.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products

D. COMMENTS:

APPENDIX J
USER QUESTIONNAIRE

USER QUESTIONNAIRE¹

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user (you) must provide the following information (if available) to the environmental professional (SCS Engineers). Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

(1) Environmental Cleanup Liens: Are you aware of any environmental cleanup liens against the property that are filed or recorded against the site under federal, tribal, state, or local law?

No

Yes If Yes, explain:

(2) Activity and Land Use Limitations (AULs): Are you aware of any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

No

Yes If Yes, explain:

(3) Specialized Knowledge or Experience: As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

Yes

If Yes, explain:

City of Tucson has an easement on this ADOT property. City of Tucson, Environmental Services recently conducted a limited assessment of stained soil following excavation/gardening activities. Detections above regulatory levels were found of the following chemicals - Benz[a]-anthracene, Benzo[a]pyrene, lead, + arsenic.

(4) Purchase Price vs. Fair Market Value: Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

No

Yes

Unknown

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

No

Yes

If Yes, explain:

Unknown

¹ The document is designed to comply with Section X3. User Questionnaire, of ASTM E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and the USEPA AAI regulations (40 CFR §312).

USER QUESTIONNAIRE (continued)

(5) Commonly Known or Reasonably Ascertainable Information: Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional (SCS Engineers) to identify conditions indicative of releases or threatened releases? For example, as the user,

- (a) Do you know the past uses of the property?
 No Yes
- (b) Do you know of specific chemicals that are present or once were present at the property?
 No Yes
- (c) Do you know of spills or other chemical releases that have taken place at the property?
 No Yes
- (d) Do you know of any environmental cleanups that have taken place at the property?
 No Yes

If you answered Yes to any of the above, explain:

(6) Obvious Indications of Contamination: As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

- No
- Yes

If Yes, explain:

stained soil, vicinity of railroad
+ railroad uses.

Name: Lynne Birkinbine

Organization: City of Tucson Environmental Services

Title: Environmental Manager

Date: 6/23/08

APPENDIX K
RESUMES

PATRICIA M. HARTSHORNE, RG

Education

BS – Geology, University of Wisconsin, Madison, 1985
MS – Geology, University of Arizona, 1988

Professional Licenses

Registered Geologist – Arizona

Specialty Certifications

OSHA Hazardous Waste Site Investigation and Manager/Supervisor
AHERA Certified Asbestos Building Inspector and Contractor/Supervisor
EPA Certified Lead Inspector and Risk Assessor

Professional Affiliations

Arizona Geological Society
Arizona Hydrological Society
Arizona State Bar - Environment and Natural Resources
Association for Women Geoscientists
ASTM Committee E50 on Environmental Assessment, Risk Management & Corrective Action
ASTM Committee E47.05 on Risk Assessment, Communications, & Management
National Ground Water Association
Southern Arizona Environmental Management Society

Professional Experience

Ms. Patricia M. Hartshorne, RG has been performing environmental and solid waste management projects for SCS Engineers since 1990. Ms. Hartshorne's qualifications include management, interpretation, and presentation of data generated by small and large multi-task projects. She has extensive experience in Phase I and II Environmental Site Assessments (ESAs) of industrial, commercial, and agricultural sites, remedial activities at hazardous and non-hazardous project sites, and landfill investigations. This includes historical and regulatory research; collection of soil, groundwater, landfill gas, and suspect asbestos or lead containing material samples; supervision of subcontractors; health and safety compliance; data management; interpretation of laboratory analytical results; remediation oversight; and technical report preparation. She has performed, managed, and assisted with more than 450 environmental assessments, remedial investigations, and landfill investigations in Arizona, California, New Mexico, Missouri, Colorado, Louisiana, Texas, and Ohio. Below is a partial listing of representative projects.

Phase I and II ESA Projects in Pima County, Arizona. Performed numerous projects throughout Pima County, including Phase I ESAs of residential properties, commercial properties, agricultural land, a former mine ore rail site, and vacant land; pre-demolition asbestos surveys of

12 structures along Wetmore Road; sampling of soil piles potentially contaminated by metals; and a Phase II ESA investigation of a former service station property.

Redevelopment Projects in Tucson, Arizona. Performed and managed Brownfields redevelopment projects for the City of Tucson, including a former railroad depot, the Fox Theatre, Presidio Terrace, El Campo Tire property, and two structures on Broadway Road. Various tasks performed for the projects included Phase I ESAs, Phase II ESAs, and/or comprehensive asbestos surveys prior to building demolition. The El Campo Tire project also included preparation of a Sampling and Analysis Plan (SAP) and submittal to EPA, a geophysical survey, closure and assessment of on-site USTs, investigation of contamination associated with off-site USTs, excavation of exploratory test pits, drilling of soil borings, collection and analysis of soil samples, data validation of laboratory reports, and preparation of technical reports.

Agricultural Land Near Arlington, Arizona. Performed a Phase I ESA for 240 acres of agricultural land near Arlington, Arizona, including agricultural fields, riparian areas, a former residence, and former weed spraying business. Limited soil sampling was performed in an area of yellow-stained soil at the former weed spraying business, and remediation of soils exceeding pesticide cleanup levels was recommended.

Automatic People Mover Project, Sky Harbor International Airport, Phoenix, Arizona. Performed extensive file and historical aerial photograph reviews of former and current aboveground and underground storage tank systems and other issues of potential environmental concern within the planned Automatic People Mover Phase I Project Site Study Area at Sky Harbor International Airport for the City of Phoenix. Prepared a report documenting each of the tanks, other features, and environmental issues identified within the study area, and the potential concerns associated with each feature and issue.

Vacant Desert in Bullhead City, Arizona. Performed a Phase I ESA of multiple parcels of land located in Bullhead City, Arizona. The site consisted of 590 acres of vacant and undeveloped native desert that contained wildcat dumping of solid waste materials in areas that were readily accessible by vehicles, including at least five wrecked and partially burned motor vehicles and several containers with hazardous or unidentified substances.

Yuma Area Service Highway, Yuma, Arizona. Performed an Environmental Baseline Survey of a portion of the proposed alignment for the Yuma Area Service Highway for Arizona Department of Transportation. The site portion of the proposed alignment extends approximately nine miles across a vacant portion of the Barry M. Goldwater Range (BMGR) east of Yuma. Because no vehicles were allowed in the BMGR, SCS performed an aerial reconnaissance of the area by flying over the route and adjoining areas in a small plane, and then performed a site reconnaissance by walking through selected areas of the site. Other tasks performed for this project were a regulatory database search interviews, review of previous reports, and preparation of a report.

Traffic Interchanges in North Phoenix, Arizona. Performed a Phase I ESA of two planned future highway traffic interchanges in northern Phoenix, Arizona. The site area included all or portions of approximately 42 parcels, and was occupied by residences, a roofing company, plant

nurseries, a landscaping company, a commercial garage, a municipal well property, a cell tower, river channels, and vacant undeveloped land.

Right-of-Way Projects, Phoenix, Arizona. Performed or provided technical review of many Phase I and Phase II ESAs for the City of Phoenix to evaluate risks associated with acquisition of portions of commercial, residential, and vacant parcels for street construction and urban renewal projects, including the Light Rail and Community Noise Reduction Projects. Site reconnaissances, site history searches, and regulatory records reviews were performed and reports were prepared for numerous separate projects. Phase II ESA investigations included soil gas surveys, evaluation of the potential presence of contamination from solid waste disposal sites, collection of soil samples, etc.

Former Feedlot Near Arlington, Arizona. Performed Phase I and Phase II ESA investigations at an inactive 40-acre cattle feedlot for the Arizona State Land Department. The Phase II ESA investigation included groundwater sampling for nitrates, collection of samples from surface soil and soil borings, asbestos sampling, characterization of the nature and volume of veterinary and solid wastes, and evaluation of cleanup alternatives for solid waste and pesticide-contaminated soils.

Los Reales Landfill West Side Closure Project, Tucson, Arizona. Performed closure investigations for the west side of the Los Reales Landfill, including extensive file review and historical research; installation and sampling of groundwater monitoring wells; excavation of numerous test pits; oversight of geotechnical borings, geophysical surveys, and soil vapor investigations; soil vapor extraction system pilot testing; and preparation of technical reports. Managed and performed excavation and test boring investigations to evaluate a former industrial waste burial area for proposed clean closure. Prepared a detailed Site Characterization Report for work performed to date and a Remedial Action Plan for the clean closure area.

Ranch Land in New Mexico. Performed a Phase I ESA of an approximately 64,000-acre ranch in New Mexico. The assessment was facilitated by conducting an aerial over-flight of the property prior to performing the on-ground reconnaissance in order to focus on areas of potential environmental concern.

Vacant Land Near Casa Grande, Arizona. Performed Phase I ESAs of vacant former agricultural land near Casa Grande, Arizona totaling more than 4,000 acres. The properties contained gravel pits and abandoned mining areas. Oversaw excavation of backhoe test pits throughout and around former waste disposal areas to characterize waste types and the extent of waste disposal, and to evaluate whether hazardous wastes had been disposed.

Chase Field (Formerly Bank One Ballpark), Phoenix, Arizona. Performed Phase I environmental assessments of 20 parcels within the Chase Field (formerly Bank One Ballpark) project area in Phoenix, Arizona. Assessments included extensive historical research and compilation of findings, management of large amounts of data, review and summarization of groundwater contamination issues in that portion of the East Washington WQARF area, and preparation of technical reports. Also performed Phase II ESA investigations for historical features of concern, including collection of soil samples, and oversight of geophysical surveys, soil vapor surveys, soil borings, and excavations.

STEPHEN JAMES

Education

Pima Community College – City of Tucson Environmental Technician Program

Specialty Certifications

OSHA Hazardous Waste Site Investigation Certification
AHERA Certified Asbestos Building Inspector

Professional Experience

Mr. Stephen James joined SCS Engineers in 2007 after completing training as an environmental technician under a Brownfields grant to the City of Tucson. He has assisted with Phase I and II Environmental Site Assessments (ESAs) and other projects, including historical and regulatory research; collection of soil, groundwater, and suspect asbestos-containing material samples; and report preparation. The following is a partial listing of representative projects.

Phase I and Phase II ESAs and Asbestos Surveys Annual Contracts. Performed and prepared Phase I Environmental Site Assessments (ESAs) for vacant, residential, commercial, and other types of properties.

Former Pioneer Paints and Associated Properties, Tucson, Arizona. Assisted with soil and groundwater sampling at a Brownfields redevelopment project for the City of Tucson at the currently vacant former Pioneer Paints property. Various tasks performed for the project included drilling of 22 soil borings and collection and analysis of soil and groundwater samples.

Sunflower, Arizona. Assisted with the removal of free product from groundwater monitoring wells and collection of groundwater samples.

Papago Park Military Reservation, Phoenix, Arizona. Assisted with the collection of surface soil samples at the Papago Park Military Reservation for the Arizona Army National Guard to evaluate the environmental suitability for multiple sites planned for military readiness centers.

Separator Monitoring Program, City of Phoenix Airports, Arizona. Assisted with the annual monitoring of separators at the Sky Harbor International Airport and other City of Phoenix airports for the Aviation Department. Various tasks performed for the project included collection of water samples from the separators for laboratory analysis.

Asbestos Surveys, Tucson and Picacho, Arizona. Assisted with demolition asbestos surveys of vacant warehouse structures, a former shop building, an office building, and a burned residence in Tucson and Picacho, Arizona.

Agricultural Airstrip Site, Picacho, Arizona. Assisted with the collection of soil samples during remedial activities at an inactive agricultural airstrip in Picacho, Arizona for Arizona Department of Administration. Samples were analyzed for pesticides to determine the extent of contamination, verify remediation goals, and characterize waste for disposal.