

APPENDIX A

STATIONARY AND AREA SOURCE ACTIVITY SURVEYS

This appendix contains surveys targeting residential and business locations.

Section A-1 displays a postcard that asked respondents to complete information for each day of the survey and was mailed to residential locations.

A telephone survey questionnaire, presented in Section A-2, targeted business use of gas ovens, internal combustion engines, motor oil, pesticides and fertilizers, and paints and solvents.

The surveys were conducted by Freeman, Sullivan, & Co.

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A.1 Postcard survey mailed to residential locations.

DAILY ACTIVITY SURVEY FOR FRIDAY SEPTEMBER 29, 2000

Please answer these questions about activities at your household on this day, and indicate when they occurred:

When?

(check all that apply):

Was a barbeque grill used? yes no morning afternoon evening

Was a fireplace used? yes no morning afternoon evening

Was gasoline or diesel poured from or into a gas can? yes no morning afternoon evening

How many times did a passenger vehicle depart from your household?

0 1 2 3 4 5 more than 5 times morning afternoon evening

Please check each of the materials that were used at your household on this day, and indicate when they were used:

paints, varnishes, stains, thinners, solvents, or degreasers morning afternoon evening

consumer products such as hair sprays, dyes, nail polishes, polish removers morning afternoon evening

paving or roofing materials (tars, asphalts) morning afternoon evening

motor oils, gear oils or fluids, or brake fluids morning afternoon evening

gasoline-powered yard equipment (lawnmowers, weedwackers, blowers) morning afternoon evening

pesticides or fertilizers morning afternoon evening

Did you consider today a typical work day holiday/vacation day regular day off? (Please check one.)

On what date did you complete this card? (Please circle one.)

Fri 9/29 Sat 9/30 Sun 10/1 Mon 10/2 Tue 10/3
Wed 10/4 Thu 10/5 Fri 10/6 Sat 10/7 Sun 10/8

THANK YOU! Please drop this card in the mailbox—you don't need a stamp .

A.2 Business survey designed to learn about business use of gas ovens, internal combustion engines, motor oil, pesticides and fertilizers, and paints and solvents.

853 BIZ SURVEY

INTRO1

Hello, could I speak to ___?

IF CONTACT NOT AVAIL

Could I speak to anyone there who is familiar with your day-to-day operations?

INTRO2

Hello, I'm calling on behalf of the US Department of Energy. Your business has been randomly selected to participate in an important survey about air quality in the LA area.

INTRO3

We are performing an air quality study in LA, and we're asking LA residents and businesses about normal daily activities that may be related to air quality. Our questions are about normal activities that many businesses might engage in on a daily basis. We have just a few questions to ask you, so this should only take 5-10 minutes.

IF RESPONDENT ASKS:

INTRO4

All of the information you provide will be confidential, and by helping us out you'd be part of the important process of understanding air quality all over the LA basin.

TYPE

Our records show that this business is a (BIZ TYPE). Is that true?

YES (SKIP TO WORKERS)

NO

TYPE2

What type of business is it?

ENTER RESPONSE

WORKERS

How many people are employed at this business in total?

ENTER RESPONSE

HOURS

We'd like to ask about your normal business hours, Monday through Friday. Are your hours on Monday through Friday the same each day, or are you open different hours on different weekdays?

SAME HOURS ON WEEKDAYS

DIFFERENT HOURS ON SOME WEEKDAYS

IF SAME

WEEKDAYS

What are your weekday hours?

ENTER RESPONSE

IF DIFFERENT

MON

What are your hours on Monday?

ENTER RESPONSE

TUE

What are your hours on Tuesday?

ENTER RESPONSE

WED

What are your hours on Wednesday?

ENTER RESPONSE

THU
What are your hours on Thursday?
ENTER RESPONSE

FRI
What are your hours on Friday?
ENTER RESPONSE

WEEKENDS

Are you open on weekends?

YES
NO (SKIP TO SHIFTS)

IF YES

SAT
What are your hours on Saturday?
ENTER RESPONSE

SUN
What are your hours on Sunday?
ENTER RESPONSE

SHIFTS

We'd like to ask about your employees' working hours or shifts, including those times before or after your normal business hours. Are your employees' working hours or shifts generally the same Monday through Friday?

YES, EACH WEEKDAY USES THE SAME SHIFTS

NO, SOME WEEKDAYS USE DIFFERENT SHIFTS THAN OTHERS

IF YES

SHIFT1
Ok, about how many employees are usually working between 8am and 12noon on weekdays?
ENTER RESPONSE

SHIFT2
About how many employees are usually working between 12noon and 4pm on weekdays?
ENTER RESPONSE

SHIFT3
About how many employees are usually working between 4pm and 8pm on weekdays?
ENTER RESPONSE

SHIFT4
About how many employees are usually working between 8pm and midnight on weekdays?
ENTER RESPONSE

SHIFT5
About how many employees are usually working between midnight and 4am on weekdays?
ENTER RESPONSE

SHIFT6
About how many employees are usually working between 4am and 8am on weekdays?
ENTER RESPONSE

IF NO

need to ask SHIFT1, SHIFT2, SHIFT3, SHIFT4, SHIFT5, SHIFT6 about each weekday.

SAT

Ok, now I'd like to ask about your working shifts on the weekends. Are there employees usually working on Saturdays?

YES
NO (SKIP TO SUN)

SAT1

About how many employees are usually working between 8am and 12noon on Saturdays?
ENTER RESPONSE

SAT2

About how many employees are usually working between 12noon and 4pm on Saturdays?

ENTER RESPONSE

SAT3

About how many employees are usually working between 4pm and 8pm on Saturdays?

ENTER RESPONSE

SAT4

About how many employees are usually working between 8pm and midnight on Saturdays?

ENTER RESPONSE

SAT5

About how many employees are usually working between midnight and 4am on Saturdays?

ENTER RESPONSE

SAT6

About how many employees are usually working between 4am and 8am on Saturdays?

ENTER RESPONSE

SUN

Are there usually employees working on Sundays?

YES

NO (SKIP TO FUMES1)

SUN1

About how many employees are usually working between 8am and 12noon on Sundays?

ENTER RESPONSE

SUN2

About how many employees are usually working between 12noon and 4pm on Sundays?

ENTER RESPONSE

SUN3

About how many employees are usually working between 4pm and 8pm on Sundays?

ENTER RESPONSE

SUN4

About how many employees are usually working between 8pm and midnight on Sundays?

ENTER RESPONSE

SUN5

About how many employees are usually working between midnight and 4am on Sundays?

ENTER RESPONSE

SUN6

About how many employees are usually working between 4am and 8am on Sundays?

ENTER RESPONSE

(If BIZ TYPE is either OFFICE or UNKNOWN):

FUMES1

Now I'd just like to ask about some materials or equipment that may be used at your business. Does your business use any gas ovens?

YES

NO

FUMES2

Does your business use paints, solvents, thinners, stains, varnishes, or degreasers?

YES

NO

FUMES3

Does your business involve the running of internal combustion engines?

YES

NO

FUMES4

Does your business use motor oils, gear oils or fluids, or brake fluids?

YES

NO

FUMES5

Does your business use pesticides or fertilizers?

YES

NO

THANKS

Ok, that's all the questions I have for you. Thanks again for your participation in this important project. Goodbye.

APPENDIX B

LAWN AND GARDEN EQUIPMENT ACTIVITY SURVEYS

This appendix contains a survey questionnaire designed to gather information about business activity as it relates to lawn and garden equipment.

The survey was conducted by Freeman, Sullivan, & Co.

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INTRO1. Hello, my name is ----- and I'm calling on behalf of the US Department of Energy. Your business or facility has been randomly selected to participate in an important study about air quality in the Los Angeles area.

INTRO2. We are calling to ask Los Angeles businesses about normal business operations that may be related to air quality. By answering these questions you will be helping the Department of Energy better understand air quality within the LA basin.

The interview will take about 10 minutes of your time. Your responses will be kept confidential. Can I begin the interview now?

[INTERVIEWER]

If asked: Your information will be held in the strictest confidence and will not be used for any purpose other than the Los Angeles Air Quality Study. Freeman, Sullivan & Company will not identify individual study participants and will not report your personal information (such as name, address, or telephone) to the Department of Energy nor to any other party.

[Q1] TYPE

Our records show that this business or facility performs landscape, lawn, or garden maintenance operations. Is that correct ?

- [1] Yes
- [2] No (terminate)
- [8] DON'T KNOW (terminate)
- [9] REFUSED (terminate)

[Q2] PERSON

Are you the best person to talk to about day -to-day landscape, lawn or garden maintenance activities?

- [1] Yes (Go to Q#4)
- [2] No
- [8] DON'T KNOW
- [9] REFUSED

[Q3] BEST

Is there someone else I should talk with?

- [1] Yes (coming to the phone) (Go to Intro 1 and 2)
- [2] Yes (not available now) (Callback Business)
- [3] No (Terminate)
- [8] DON'T KNOW (Terminate)
- [9] REFUSED (Terminate)

[Q4] TYPE

From now on, I'll say "lawn service" instead of "landscape, lawn, or garden maintenance". For what types of properties do you provide lawn services?

- [1] Residential properties only (Go to Q#6)
- [2] Non-residential properties only (commercial, government-owned, or public)
- [3] Both residential and non-residential properties
- [8] DON'T KNOW
- [9] REFUSED

[Q5] COMMERCIAL

What types of non-residential properties do you serve? (Multiple Response)

- [1] Schools, colleges or university campuses
- [2] Cemeteries
- [3] Golf courses
- [4] Parks and recreation areas
- [5] Business parks or commercial spaces
- [6] Other (specify) _____
- [8] DON'T KNOW
- [9] REFUSED

[Q6] SERVE

About how many properties do you serve on a weekly basis? (Note: _____)

- [8] DON'T KNOW
- [9] REFUSED

[Q7] EQUIPMENT

- a. What equipment does your company use for landscape, lawn, and garden maintenance during the summertime? The summertime months include June through September (CORRECT???—yes, correct)
- b. How many of your (name of equipment) are powered by gasoline, diesel fuel, electricity, or manual power?

- [8] DON'T KNOW
- [9] REFUSED

Name of Equipment	A. USE	B. How Powered by Number?
1. Mowers	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual
2. Tractors	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual
3. Chainsaws	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual
4. Commercial turf equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual
5. Leaf blowers	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual
6. Edgers/trimmers/cutters	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____ 1. Gasoline _____ 2. Diesel _____ 3. Electricity _____ 4. Manual

[Q8] CHEMICALS

Does your business or facility use pesticides or fertilizers for lawn services during the summertime?

- [1] Fertilizers only
- [2] Pesticides only (Go to Q#13)
- [3] Both fertilizers and pesticides
- [4] No (Go to Q#17)
- [8] DON'T KNOW (Go to Q#17)
- [9] REFUSED (Go to Q#17)

[Q9] FERTILIZERS1

Do you use fertilizers for lawn services more often on certain days of the week? Would you say...(Interviewer read all response choices)

- [1] Fertilizers are only used Monday through Friday
- [2] Fertilizers are only used Saturday or Sunday
- [3] Fertilizers are more likely used Monday through Friday than on the weekend
- [4] Fertilizers are more likely used Saturday or Sunday than during the week
- [5] Fertilizers are used any day of the week
- [8] DON'T KNOW (Go to Q#13)
- [9] REFUSED (Go to Q#13)

[Q11] FERTFREQ

On average, how often do you use fertilizers during the summertime for a typical property?

- [1] Daily to weekly
- [2] Weekly to monthly
- [3] Monthly to bimonthly
- [4] Only once or twice per summer
- [8] DON'T KNOW
- [9] REFUSED

[Q12] DAYS1

When you apply fertilizer on a typical property, how many days does it take?

Enter number: (1-365)

- [8] DON'T KNOW
- [9] REFUSED

(If Q#8 EQ 1, Go to Q#17, otherwise Go to Q#13)

[Q13] PESTICIDES1

Do you use pesticides for lawn services more often on certain days of the week ? Would you say...(Interviewer read all response choices)

- [1] Pesticides are only used Monday through Friday
- [2] Pesticides are only used Saturday or Sunday
- [3] Pesticides are more likely used Monday through Friday than on weekends
- [4] Pesticides are more likely used Saturday or Sunday than during the week
- [5] Pesticides are used any day of the week
- [8] DON'T KNOW (Go to Q#17)
- [9] REFUSED (Go to Q#17)

[Q15] PESTICIDEFREQ

On average, how often do you use fertilizers during the summertime for lawn services?

- [1] Daily to weekly
- [2] Weekly to monthly
- [3] Monthly to bimonthly
- [4] Only once or twice per summer
- [8] DON'T KNOW
- [9] REFUSED

[Q16] DAYS2

How many days does it normally take to apply pesticides on a typical property?

When you apply pesticides on a typical property, how many days does it take?

Enter number: (1-365)

- [8] DON'T KNOW
- [9] REFUSED

[Q17] AREA

What is the total approximate land area for which your business or facility provides landscape and garden maintenanceservices during a typical summertime week? [Make your best guess].

- [1] Less than 1 acre
- [2] 1-10 acres
- [3] 11-50 acres
- [4] 51-250 acres
- [5] 251-1,000 acres

- [6] 1,001-5,000 acres
- [7] >5000 acres
- [88] DON'T KNOW
- [99] REFUSED

[Q18] WORKERS

On a typical summer workday at your business, how many people are employed as landscape and garden maintenance workers, including temporary and part-time laborers? _____

- [8] DON'T KNOW
- [9] REFUSED

[Q19] HOURS

We'd now like to ask you some questions about your landscape and garden maintenance workers' normal summertime working hours on weekdays, Monday through Friday.

Do landscape and garden maintenance employees normally work the same hours Monday through Friday during the summertime, or do their work hours vary?

- [1] Same hours on weekdays
- [2] Different hours on weekdays (Go to Q#21)
- [8] DON'T KNOW
- [9] REFUSED

[Q20] WEEKDAYS

What are the normal weekday hours during the summertime? _____ to _____ (military time)

- [8] DON'T KNOW
- [9] REFUSED (Go to Q#22)

[Q21] DIFFERENT1

I'd now like to ask you about your landscape and garden maintenance employees' normal working hours on weekdays during the summertime.

Let's start with Monday. What are their normal working hours on Monday during the summertime? How about Tuesday? What about Wednesday, Thursday and Friday?

- a. Monday _____ to _____ (military time)
- b. Tuesday _____ to _____ (military time)
- c. Wednesday _____ to _____ (military time)
- d. Thursday _____ to _____ (military time)
- e. Friday _____ to _____ (military time)

1.

- [8] DON'T KNOW
- [9] REFUSED

6[Q22] WEEKENDS

Do landscape and garden maintenance employees normally work for your business on Saturdays or Sundays during the summertime? Would you say...

- [1] Saturdays only (Go to Q#23a and then Q#24)
- [2] Sundays only (Go to Q#23b and then Q#24)
- [3] Both Saturdays and Sundays (Go to Q#23a & b and then Q#24)
- [4] Neither Saturday nor Sunday (Go to Q#24)
- [8] DON'T KNOW (Go to Q#24)
- [9] REFUSED (Go to Q#24)

[Q23] HOURS

What are their normal working hours on Saturday and Sunday during the summertime? Let's begin with Saturday. How about Sunday?

- 23a. Saturday _____ to _____ (military time)
- 23b. Sunday _____ to _____ (military time)

- [8] DON'T KNOW
- [9] REFUSED

[Q24] SHIFTS1

We'd like to ask about the work shifts for landscape and garden maintenance workers during the summertime. Are the shifts usually the same Monday through Friday? Would you say...

- [1] Each weekday uses the same shifts
- [2] Some weekdays use different shifts (Go to Q#26)
- [8] DON'T KNOW (If Q#22 EQ 1 or 3 Go to Q# 27, otherwise go to "Thank You"; If Q#22 EQ 2, go to Q#28)
- [9] REFUSED (If Q#22 EQ 1 or 3 Go to Q# 27, otherwise go to "Thank You", If Q#22 EQ 2, go to Q#28)

[Q25] WEEKDAY

How many landscape and garden maintenance workers are usually working on a weekday between the hours of:

SHIFTS	TOTAL NUMBER
a. 8 am and 12 noon?	_____
b. 12 noon and 4 pm?	_____
c. 4 pm and 8 pm?	_____
d. 8 pm and midnight?	_____
e. Midnight and 4 am?	_____
f. Between 4 am and 8 am?	_____

- [8] DON'T KNOW
- [9] REFUSED (Go to Q#27)

[Q26] DIFFERENT2

Starting with Monday, how many landscape and garden maintenance workers are usually working on a weekday between the hours of...Let's now talk about Tuesday...What about Wednesday, Thursday, and Friday?

SHIFTS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
a. 8 am and 12 noon?	_____	_____	_____	_____	_____
b. 12 noon and 4 pm?	_____	_____	_____	_____	_____
c. 4 pm and 8 pm?	_____	_____	_____	_____	_____
d. 8 pm and midnight?	_____	_____	_____	_____	_____
e. Midnight and 4 am?	_____	_____	_____	_____	_____
f. Between 4 am and 8 am?	_____	_____	_____	_____	_____

- [8] DON'T KNOW
 - [9] REFUSED
- (If Q#22 EQ 1, go to Q#27; If Q#22 EQ 2, go to Q#28; if Q#22 EQ 3, go to Q#27 and Q#28; If Q#22 EQ 4, go to "Thank You")

[Q27] SAT

How many landscape and garden maintenance workers are usually working on a Saturday between the hours of:

SHIFTS	TOTAL NUMBER
a. 8 am and 12 noon?	_____
b. 12 noon and 4 pm?	_____
c. 4 pm and 8 pm?	_____
d. 8 pm and midnight?	_____
e. Midnight and 4 am?	_____
f. Between 4 am and 8 am?	_____

[8] DON'T KNOW

[9] REFUSED

(If Q#22 EQ 3, go to Q#28, otherwise go to "Thank You")

[Q28] SUN

How many landscape and garden maintenance workers are usually working on a Sunday between the hours of:

SHIFTS	TOTAL NUMBER
a. 8 am and 12 noon?	_____
b. 12 noon and 4 pm?	_____
c. 4 pm and 8 pm?	_____
d. 8 pm and midnight?	_____
e. Midnight and 4 am?	_____
f. Between 4 am and 8 am?	_____

[8] DON'T KNOW

[9] REFUSED

THANK YOU

Those are all the questions I have for you. Thank you again for your time and your participation in this important project. Goodbye.

APPENDIX C

CHARACTERIZATION OF SELECTED MONITORING SITES: AZUSA, INDUSTRY HILLS, LOS ANGELES N. MAIN, AND PICO RIVERA

This appendix characterizes and describes the four monitoring locations in greater detail. This detailed information includes for each monitoring site a street map (north=up) superimposed with land-use/land-cover detail illustrating the surrounding neighborhood. On each map, a red triangle identifies the monitoring site, green-hatched areas denote land use, a blue diamond beside a number identifies a point of interest, and yellow stars denote traffic counter locations. The page following the street map contains a key that lists the points of interest identified by number on the prior street map. **Table C-1** lists the location of each traffic counter used in the study.

Observations of field personnel as to activity observed around each monitoring site follow each map.

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Table C-1. Lists the 14 traffic counter locations along with pertinent characteristics

ID	LOCATION	ORIENTATION	ROAD CLASS ¹	TYPICAL DAILY WD VOLUME	MAX. HOURLY VOLUME	MEAS. TYPE	SITE ²	CITY ³
1	West Sierra Madre Avenue East of Todd Avenue	EastWest	UC	4500	1000	Total	A	A
2	Ringrove Drive South of Wing Lane	NorthSouth	UL	650	200	Total	I	LP
3	Industry Hills Parkway West of Azusa Avenue	EastWest	RL	2000	600	Total	I	LP
4	Foothill Boulevard West of Todd Avenue	EastWest	UA	18000	3000	Total	A	A
5	Azusa Avenue North of Temple Avenue	NorthSouth	UA	23000	3000	Total	I	LP
6	Beverly Boulevard West of San Gabriel River Road	EastWest	UA	18000	2500	Total	P	PR
7	Vignes Street East of Main Street	EastWest	UA	13000	1600	Total	L	LA
8	Main Street West of Azusa Avenue	EastWest	UC	2700	400	Total	I	LP
9	Wing Lane Between Azusa Avenue and Ringrove Drive	EastWest	UL	2700	375	Total	I	LP
10	Main Street South of Vignes Avenue	NorthSouth	UC	3500	600	Total	L	LA
11	1150 Foothill Boulevard	EastWest	UA	9000	1400	Vehicle Class	A	A
12	800 North Main Street	NorthSouth	UC	4000	600	Vehicle Class	L	LA
13	San Gabriel River Parkway North of Beverly Boulevard	NorthSouth	UA	7000	1400	Vehicle Class	P	PR
14	Azusa Avenue South of Industry Hills Parkway	NorthSouth	UA	25000	2800	Vehicle Class	I	LP

¹ RL – Rec. Local; UA – Urban Arterial; UC – Urban Collector; UL – Urban Local

² A – Azusa; I – Industrial Hills ; L – LA N. Main; P – Pico Rivera

³ A – Azusa; LA – Los Angeles; LP – La Puente; PR – Pico Rivera

C-1. AZUSA MONITORING SITE

Figure C-1 displays points of interest around the Azusa monitoring site.

- Sampler located at the corner of Todd Avenue and 10th Street.
- I-210 Freeway runs through areas observed around the sampling site.
- The San Gabriel River runs through the northwest end of the observed areas.
- Running East/West is the major surface street Foothill Boulevard.
- The Santa Fe Dam Recreational area takes up a large portion of the southwest end of the sampling area observation. Gravel pits flank the Dam.
- Azusa Greens Country Club is just northeast of the sampler itself. More gravel pits are on the west side of the golf course.
- Railroad tracks run all around sample site and in the observed areas of Azusa.
- There is a dense residential area just east of the sample site and across the river in the Northwest.

Asuza Points of Interest

1. Public Institution; Lario San Gabriel River Trail; Other; horse and bike trail;
2. Construction; senior residence; Building Construction; appt building for seniors; nearing completion;
3. Public Institution; Duarte Historical Museum; Library/Museum; Museum with small park on property;
4. Public Institution; Royal Oaks park; Other; Park with small playground and tennis courts;
5. Public Institution; Royal Oaks Elementary; School;
6. Residential Zone; residential; Single-Family Homes; Most; area northwest of site;
7. Refueling; Texaco; Full Service Station; Fuel and auto repair; on the corner of Foothill Blvd. and Todd;
8. Public Institution; Azusa Greens Country Club; Other; GOLF COURSE;
9. Residential Zone; residential; Multi-Dwelling Units; Some; mix of appts and single family homes;
10. Food Preparation; Carl's Jr.; Restaurant; fast food; There is a Taco Bell to the east of this Carl's jr.;
11. Vehicle; Laidlaw Bus Co.; Parking Lot/Garage; school bus yard;
12. Industry; Galleher lumber co; Pulp/Paper/Wood; Storage/Transport; lumber;
13. Industry; Tru Wood Products; Pulp/Paper/Wood; Storage/Transport; lumber;
14. Industry; Carter's; Metal; Fabrication;
15. Misc. Business; Homegrocer.com; Other; food distribution center; home food delivery. many trucks;
16. Food Preparation; McDonalds; Restaurant;
17. Refueling; Arco; Retail Re-fueling;
18. Industry; Miller brewing; Food/Ag Products; Processing; Brewery;
19. Industry; Vulcan Materials; Mineral; Processing; Reliance Quarry;
20. Industry; Gen Corp Aerojet; Other; Production; Aero Space company;
21. Industry; Wynn; Petroleum/Gas; Production; production of oil additives for products like STP;
22. Construction; building construction; Building Construction; large industrial park under construction;
23. Food Preparation; El Toro Bravo#4; Restaurant; mexican food;
24. Commercial Zone; none; Industrial Park; light industrial park; no major sources of pollution were noted;
25. Commercial Zone; Foothill Business park; Business Park; business park;
26. Industry; Vulcan Landfill; Mineral; Storage/Transport; class \U\ landfill;
27. Commercial Zone; health valley; Other; warehouse;
28. Misc. Business; Tim's Auto Center; Auto Service/Maintenance; auto service; on the corner of Foothill Blvd. and Georgia Ave;
29. Food Preparation; Corky's Coffee House; Restaurant; small diner; serves breakfast and lunch only;

C-2. INDUSTRY HILLS MONITORING SITE

Figure C-2 displays points of interest around the Industry Hills monitoring site.

The Industry Hills monitor was located next to the Industry Hills Exhibit and Conference Center.

Azusa Avenue is a major surface street to the east of the site. Los Angeles Valley Blvd is another major surface street just south of the site. San Jose Creek is south of the LA Valley Blvd in an industrial area.

Dense residential areas surround all sides of the park area where site is located.

Southern Pacific Railroad south of site. Radio Towers northwest of sample area.

Observations for September 29, 2000, Friday

7:00 a.m. to 8:00 a.m.

- Moderate auto traffic.
- Few diesel trucks.
- Children waiting for school buses.
- City transit buses.
- Joggers and a few bicycles.
- No yard maintenance being performed.
- Golfing range open.

8:00 a.m. to 9:00 a.m.

- Auto traffic more moderate than earlier.
- Diesel trucks.
- Joggers, bicyclists and pedestrians with dogs.
- Yard maintenance starting.
- Golfers at driving range at IHCC. Tennis players also.

9:00 a.m. to 10:00 a.m.

- Auto traffic light.
- Many gravel and cement trucks.
- Auto counter being installed at 9:30 am on Azusa Ave.
- Joggers in IHCC area.
- Yard maintenance in residential areas.
- Transit buses.
- Golfers and senior swim group at IHCC.

10:00 a.m. to 11:00 a.m.

- Auto traffic light.
- Diesel truck traffic light to moderate.
- Joggers.
- Yard maintenance still going on.
- Buses running.
- Golfers are growing in number from earlier.
- Inactivity in the residential area.

Observations for September 30, 2000 Saturday

7:00 a.m. to 8:00 a.m.

- Less autos.
- No diesel trucks.
- No school buses.
- No children on the streets.
- City buses traffic the same.
- More joggers and pedestrians with dogs.

- Less bicyclists.
- No yard maintenance being done.
- Higher number of golfers at range than previous day.

8:00 a.m. to 9:00 a.m.

- Auto traffic less.
- Fewer diesel trucks.
- Same amount of bicyclists, joggers and walkers.
- Horseback riding on bike trail.
- More golfers.
- City buses are the same.

9:00 a.m. to 10:00 a.m.

- More auto traffic going into IHCC.
- More golfers.
- Same amount of joggers.
- Fewer diesel trucks.
- Less yard maintenance being done in residential areas.
- Some yard sales today, none yesterday.
- More swimmers and tennis players today.
- Children on bikes and scooters.

10:00 a.m. to 11:00 a.m.

- More autos.
- Fewer diesel trucks.
- Same amount of buses.
- Fewer joggers.
- Even more golfers.
- Pedestrians in residential areas higher.
- Yard maintenance being done by more residents.

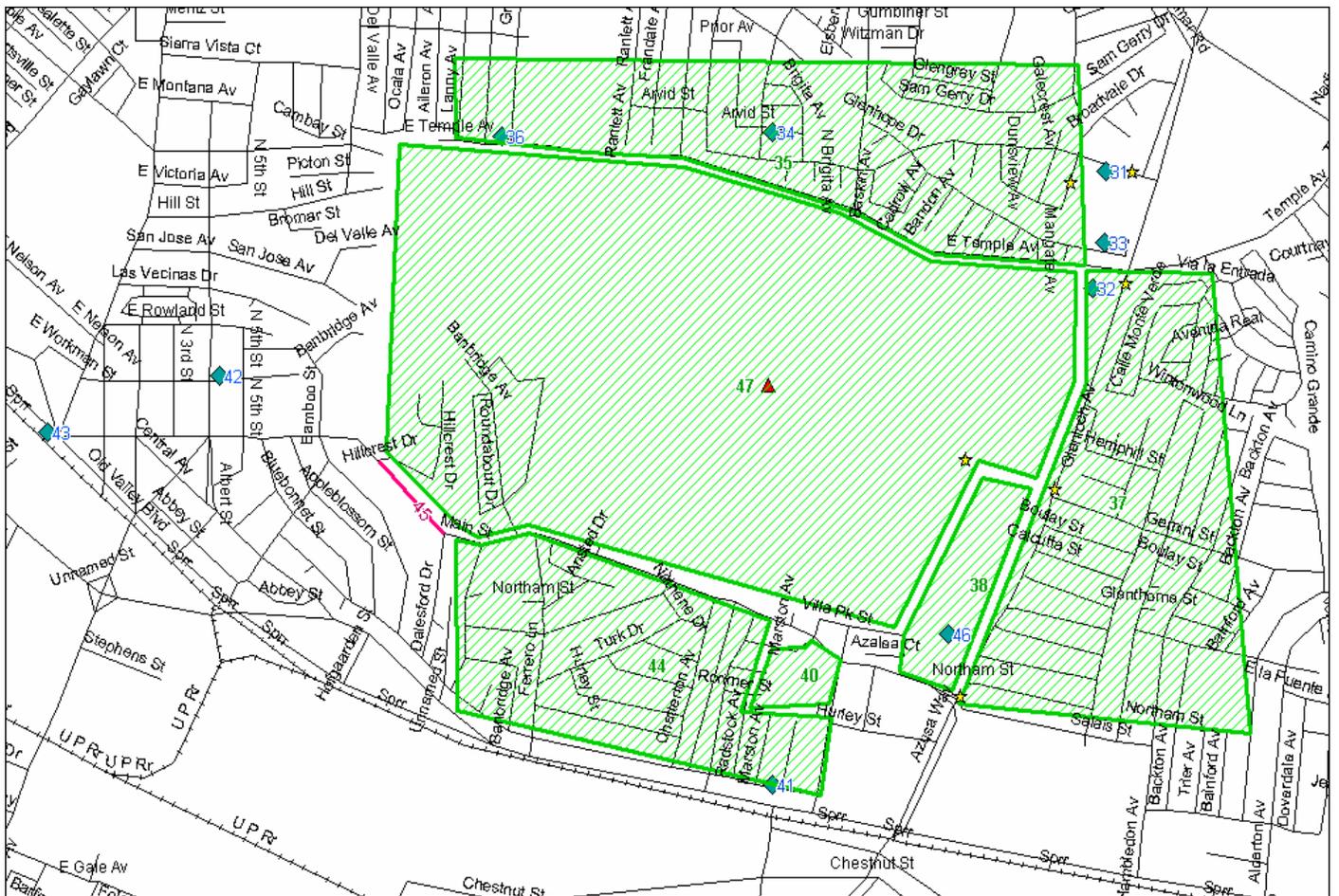


Figure C-2. Industry Hills monitoring site (red triangle is the location of the monitoring site; blue diamonds are points of interest).

Industry Hills Points of Interest

- 31. Food Preparation; tasty choice; Restaurant; on the corner of Asusa Ave and Wing Lane;
- 32. Refueling; Arco; Retail Re-fueling; corner of Azusa Ave. and Temple Blvd.;
- 33. Public Institution; St. Martha's Church; School; Church and school;
- 34. Public Institution; Wing Lane Elementary; School;
- 35. Residential Zone; none; Single-Family Homes; Some;
- 36. Public Institution; Workman High School; School; High School;
- 37. Residential Zone; Residential; Single-Family Homes; Some;
- 38. Commercial Zone; La Puente Village; Shopping; small strip mall; Small strip mall including a Donut Shop, a Pizza parlor, a Mexican fast food restaurant;
- 40. Public Institution; Hurley Elementary; School;
- 41. Misc. Business; Pj Bonifacio Motor Works; Auto Service/Maintenance; Auto engine repair;
- 42. Public Institution; Workman Elementary; School;
- 43. Food Preparation; JB Burgers; Restaurant;
- 44. Residential Zone; residential; Other; Some; mix of Apts. and homes;
- 45. Commercial Zone; commercial area; Shopping; Little strip of retail stores; On main St. at the end of the mapped route;
- 46. Misc. Business; AAMco; Auto Service/Maintenance; Transmission service and repair;

47. Public Institution; Industry Hills Conference Center; Other; Large recreational Area;

C-3. LOS ANGELES N. MAIN MONITORING SITE

Figure C-3 displays points of interest around the Los Angeles N. Main monitoring site.

- The Los Angeles River runs North/South to the east of the sample site.
- Amtrak line follows along the river and circles the sampling site.
- Just north is the recreational area Elysian Park.
- Dodger Stadium is just below the park, northwest of the site.
- I-5 runs north/south
- 101 runs west/east
- 110 runs southwest/northeast
- North Main Street a major surface street goes right past sample site.
- Southwest area is a dense mixed area of home and restaurants.
- South of site is the LA County Central Jail.

Observations for October 13, 2000

7:00 a.m. to 8:00 a.m.

- Auto traffic heavy on 110 Freeway.
- Moderate traffic on surface streets in area of the Dodgers Stadium.
- One Amtrak and Metro Link train.
- Very few trucks in the area.
- No city buses running due to city strike.
- Several tour buses in the residential area of china town.
- Foot traffic high.
- School buses running.

8:00 a.m. to 9:00 a.m.

- Traffic heavy on 110 freeway.
- Moderate traffic on surface streets.
- Light to moderate diesel trucks.
- One Metro link train.
- Pedestrian traffic high.
- School buses still running.
- Several helicopters in the area.

9:00 a.m. to 10:00 a.m.

- Auto traffic moderate.
- Diesel trucks traffic moderate.
- Metro link train.
- School buses still running.
- Several UPS trucks on Main Street.

10:00 a.m. to 11:00 a.m.

- Auto traffic light to moderate.
- Diesel trucks traffic moderate.

Observations for October 14, 2000

7:00 a.m. to 8:00 a.m.

- Auto traffic on 110 Freeway “free flowing”.
- Auto traffic on surface streets considerably less.
- No Metro link trains
- Heard an Amtrak train horn.
- Large group of L.A.P.D. joggers.
- Fewer pedestrians in same area as on previous day.
- A few tour buses.

- No school buses.

8:00 a.m. to 9:00 a.m.

- Lower auto and diesel truck traffic in area.
- Fewer pedestrians.
- No helicopter traffic.
- Heard one train bell.
- Less school buses.

9:00 a.m. to 10:00 a.m.

- Fewer autos traffic.
- Fewer diesel trucks.
- No Metro Links trains.
- UPS truck traffic the same.
- Less school buses.

10:00 a.m. to 11:00 a.m.

- Less autos.
- Fewer diesel trucks.

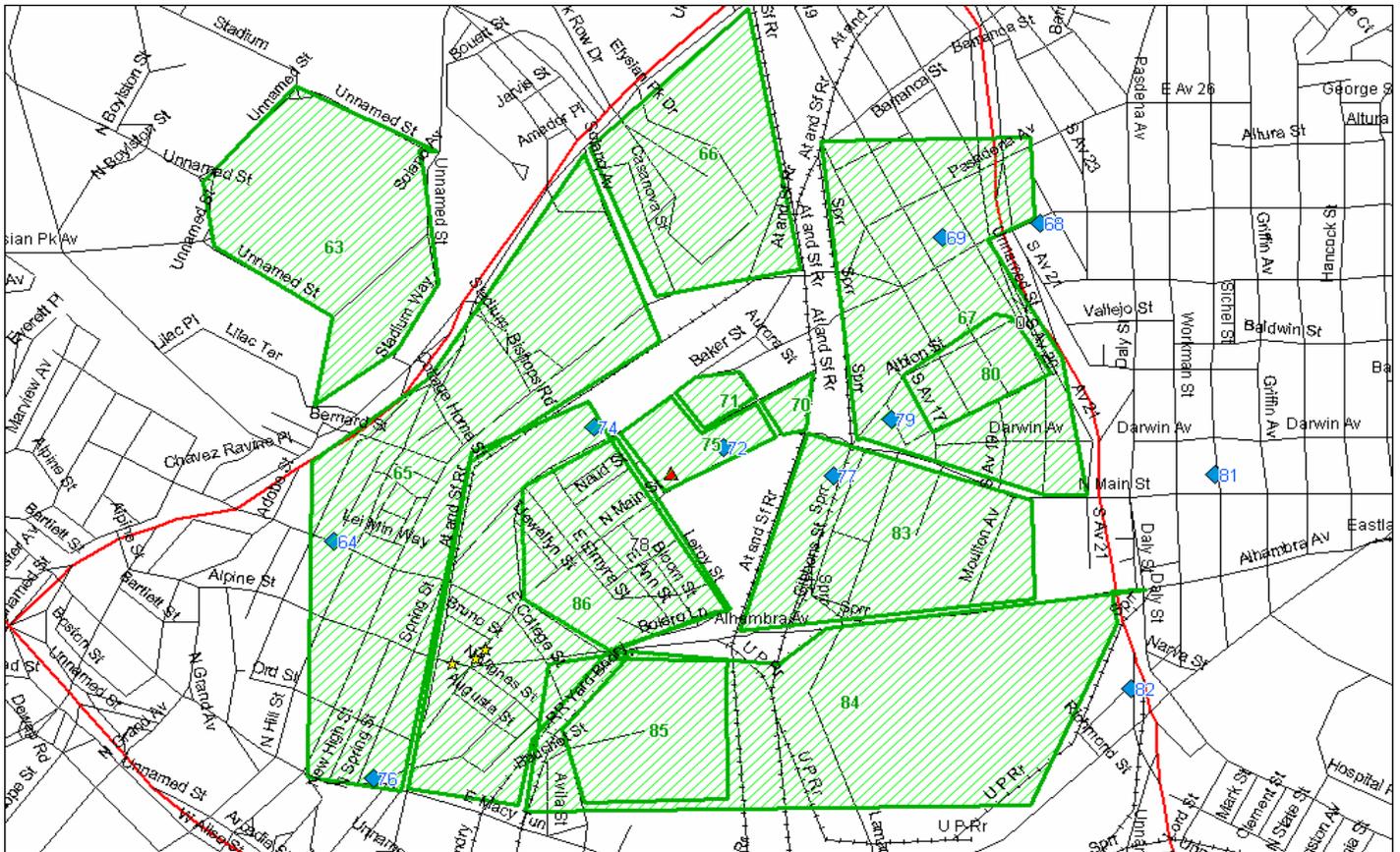


Figure C-3. Los Angeles N. Main monitoring site (red triangle is the monitoring site; blue diamonds are points of interest).

Los Angeles N. Main Points of Interest

- 63. Dodger Stadium;Public Institution;Other;Baseball stadium;
- 64. 76 gas station;Refueling;Retail Re-fueling;

65. China Town;Other;ethnic community area;area consisting of mixture of homes, apts., small businesses, many restaurants;
66. Elysian park;Public Institution;Other;park;
67. none;Residential Zone;Other;Some;mixed area;
68. Thrifty Gas;Refueling;Retail Re-fueling;
69. 76 gas;Refueling;Retail Re-fueling;
70. none;Industry;Other;Other;area of warehouses for seafood;
71. Stadco Fab Ship;Industry;Metal;Fabrication;
72. West America;Industry;Rubber;Fabrication;
74. McKenna Boiler Works;Industry;Metal;Fabrication;
75. DWP Main center;Industry;Electronics;Processing;
76. 76 gas;Refueling;Retail Re-fueling;
77. Transit Mixed Concrete;Industry;Mineral;Processing;
78. residential;Residential Zone;Multi-Dwelling Units;None;low income housing project;
79. Atlas Carpet Mills;Industry;Other;Fabrication;carpet fabrication;
80. residential;Residential Zone;Single-Family Homes;Some;
81. C&J Gas;Refueling;Full Service Station;Hours posted are for the service area;
82. Chevron;Refueling;Retail Re-fueling;
83. none;Industry;Other;N/A;mixed area;mixture of warehouses and light industry;
84. Amtrac train;Vehicle;Railroad;
85. LA County Jail;Public Institution;Other;none;Other;Groundcover;
86. none;Other;Single-Family Homes;Most;Little homes;none;mixed area;mixture of light industry, warehouses, fast food restaurants, auto repair shops and residential

C-4. PICO RIVERA MONITORING CITE

Figure C-4 displays points of interest around the Pico Rivera monitoring site.

- Pico Rivera site is near the San Gabriel River Parkway.
- Hwy 605 runs northeast/southwest on the East Side of site.
- San Gabriel River parallels Hwy-605 on West Side of site.
- Beverly Blvd is a major surface street south of site running southwest/southeast direction.
- Residential area just south of site between river and Hwy-605.
- Golf course across river, north of site.
- North of golf course is a wildlife sanctuary and Whittier Narrows (spillway).
- USMC reserve training center just northeast of site; divided by the Hwy-605.
- Railroad runs northeast heading south away from site.

Observations for October 6, 2000, Friday

7:00 a.m. to 8:00 a.m.

- Auto traffic on Hwy-605 light to moderate.
- Auto traffic coming off Hwy-605, Rose Hills Road onto San Gabriel River Road is moderate.
- School busses and diesel trucks.
- Light auto traffic in residential area.
- Today is trash collection day.
- Children waiting for school buses.
- Joggers and golfers.
- Cars at Rose Hills.

8:00 a.m. to 9:00 a.m.

- Auto traffic on Hwy-605 jammed south bound.

- Light to moderate auto traffic north bound on Hwy 605.
- Moderate amount of diesel trucks in area.
- Some cars at Rose Hills.

9:00 a.m. to 10:00 a.m.

- Auto traffic moderate on Hwy -605.
- Moderate diesel trucks.
- Growing number of golfers.
- Inactivity in residential area.
- A few visitors at the cemetery with four grave sits being dug.

10:00 a.m. to 11:00 a.m.

- Auto traffic on Hwy -605 light to moderate.
- Professional yard work being done in residential area.
- Trash collection trucks working in residential area.
- Moderate diesel truck traffic.
- Large funeral service with Fire Department vehicles in attendance.
- More golfers than previous 2 hours.
- Low activity in residential areas.

Observations for October 7, 2000, Saturday

7:00 a.m. to 8:00 a.m.

- Auto traffic on Hwy -605 much less.
- Fewer autos exiting at San Gabriel River Road.
- Fewer diesel trucks in area.
- No children or busses.
- Higher number of golfers at this time than yesterday.
- Many residents walking and jogging.
- Road counter on San Gabriel River Road (looked awkward).

8:00 a.m. to 9:00 a.m.

- Southbound auto traffic less but northbound jammed due to lane closure for road work, just passed Rose Hills Road exit.
- Some diesel trucks in area but less than on Friday.
- Some yard work being done in residential areas.
- Many more visitors to cemetery than at this same time yesterday.
- Golf course filling up.
- Several yard sales in residential areas, none on Friday.

9:00 a.m. to 10:00 a.m.

- Road work on Hwy -605 north bound complete.
- North bound traffic flowing at moderate speed with a lighter than Friday volume.
- South bound traffic flowing at maximum speed with less volume than this time period yesterday.
- Fewer diesel trucks than yesterday.
- More visitors at cemetery.
- Higher number of golfers at this time than yesterday.

10:00 a.m. to 11:00 a.m.

- Auto traffic on Hwy -605 is less than at this same time yesterday.
- More residential yard maintenance being done.
- Diesel traffic less.
- Golf course parking lot has more cars.
- Many more visitors to Rose Hills Cemetery.

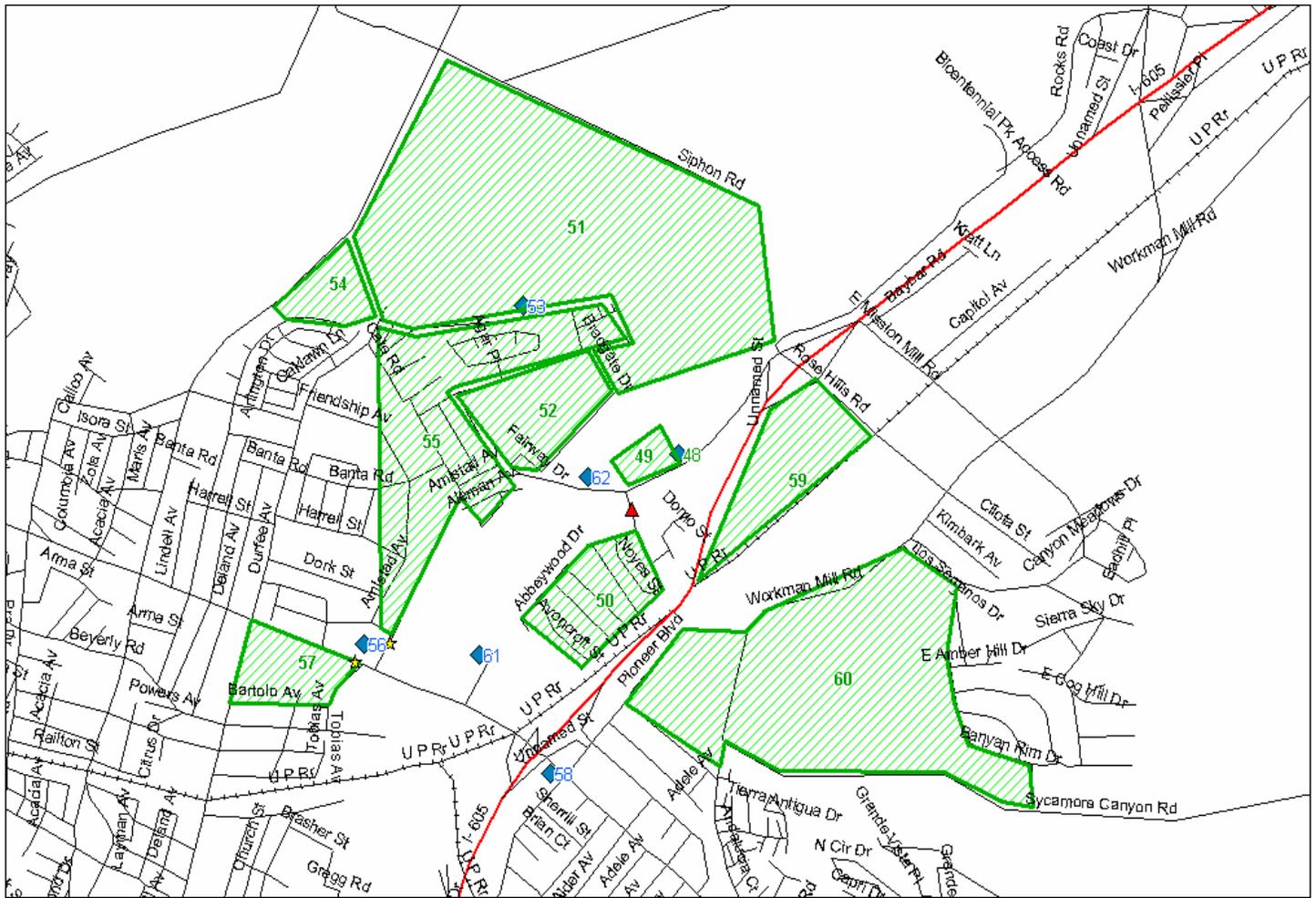


Figure C-4. Pico Rivera monitoring site (the red triangle is the location of the monitoring site, blue diamonds are points of interest)

Pico Rivera Points of Interest

- 48. Public Institution; USMC Reserve Base; Other; Military facility
- 49. Commercial Zone; San Gabriel Parkway Business Center; Business Park; Small business park to the south of the USMC reserve facility
- 50. Residential Zone; Residential; Single-Family Homes; Some
- 51. Public Institution; Pico Rivera River Ridge Golf Course; Other; Golf Course
- 52. Public Institution; Eugene A. Obregon elementary school; School; school
- 53. Vehicle; Bekin Van Lines; Parking Lot/Garage; parking lot for Bekin Van Line trailers
- 54. Public Institution; Streamland Park; Other; Park
- 55. Residential Zone; Residential; Single-Family Homes; Some
- 56. Vehicle; County of LA road maintenance yard; Parking Lot/Garage; parking lot for county vehicles
- 57. Public Institution; Pico Park; Other; park
- 58. Refueling; 76 gas station; Retail Re-fueling;
- 59. Misc. Business; CAT; Auto Service/Maintenance; truck sales and service
- 60. Other; Rose Hills Memorial Cemetery;

61. Misc. Business; Yellow freight trucking company; Shipping/Receiving; Yellow freight distribution center
Vehicle; Street sweepers; Parking Lot/Garage; street sweepers